APPENDIX AVAILABLE ON THE HEI WEB SITE

Research Report 177

National Particle Component Toxicity (NPACT) Initiative: Integrated Epidemiologic and Toxicologic Studies of the Health Effects of Particulate Matter Components

Morton Lippmann et al.

Study 1. Subchronic Inhalation Exposure of Mice to Concentrated Ambient $PM_{2.5}$ in Five Airsheds

Lung-Chi Chen and Morton Lippmann

Appendix D. Frequency Domain Results (Part 1)
(Because of its size, Appendix D has been split into 2 parts.)

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Appendix Table D.1. Acute Effects of CAPs on Frequency Domain HRV by Pollutant at Manhattan

Estimated coefficient and its standard error of single pollutant at lag 0-2 days for 6 outcomes and 4 time periods

				HR			LnSDNN			LnRMSSD			LnLF			LnHF			LF/HF	
Variable	Lag	TimePeriod	Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error	
CAPs	0	9:00-13:59	-1.04E-01	0.017023	**n	1.92E-04	9.1E-05	**p	4.44E-04	0.000101	**p	0.000301791	0.0002		0.000563912	0.00021	**p	-0.00060719	0.00013	**n
		19:00-21:59	-1.05E-01	0.014894	**n	2.08E-04	8.3E-05	**p	5.08E-04	0.000107	**p	0.000446658	0.00017	**p	0.000908764	0.0002	**p	-0.00092448	0.00015	**n
		22:00-0:59	-8.97E-02	0.015636	**n	1.93E-04	0.00008	**p	4.38E-04	0.000104	**p	0.000344629	0.00016	**p	0.000710302	0.0002	**p	-0.00076721	0.00016	**n
		1:00-3:59	-9.59E-02	0.014943	**n	1.82E-04	8.1E-05	**p	4.40E-04	0.0001	**p	0.000372151	0.00016	**p	0.000689728	0.00019	**p	-0.00071338	0.00014	**n
	1	9:00-13:59	-8.33E-02	0.017147	**n	3.67E-04	9.1E-05	**p	4.48E-04	0.000101	**p	0.000427633	0.0002	**p	0.000600913	0.00022	**p	-0.00029721	0.00014	**n
		19:00-21:59	-6.14E-02	0.015378	**n	2.61E-04	8.6E-05	**p	5.25E-04	0.00011	**p	0.000692022	0.00017	**p	0.001008854	0.00021	**p	-0.00070285	0.00016	**n
		22:00-0:59	-7.98E-02	0.017683	**n	2.17E-04	9.1E-05	**p	4.26E-04	0.000118	**p	0.000473195	0.00018	**p	0.000778589	0.00023	**p	-0.00064897	0.00018	**n
		1:00-3:59	-5.67E-02	0.016888	**n	1.07E-04	9.2E-05		3.58E-04	0.000113	**p	0.000226296	0.00018		0.000648537	0.00021	**p	-0.00078037	0.00016	**n
	2	9:00-13:59	-4.38E-02	0.019134	**n	2.87E-04	0.0001	**p	3.49E-04	0.000114	**p	0.000666673	0.00023	**p	0.000687797	0.00024	**p	-0.00021127	0.00015	
		19:00-21:59	-2.21E-02	0.01622		7.41E-05	9.1E-05		8.91E-05	0.000116		0.000189264	0.00018		0.000161805	0.00022		-0.00010362	0.00017	
		22:00-0:59	-6.26E-03	0.017306		1.75E-04	8.9E-05	* p	1.55E-04	0.000116		0.000366159	0.00018	**p	0.000437407	0.00022	**p	-0.00017968	0.00017	
		1:00-3:59	-8.88E-03	0.016571		2.41E-04	0.00009	**p	2.41E-04	0.000111	**p	0.000505263	0.00018	**p	0.000587438	0.00021	**p	-0.00013921	0.00016	
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
BC	0	9:00-13:59	-4.94E+00	0.885956	**n	1.13E-02	0.00471	**p	2.18E-02	0.005228	**p	0.025197079	0.01038	**p	0.037586574	0.01109	**p	-0.02783542	0.00702	**n
		19:00-21:59	-4.48E+00	0.761072	**n	4.74E-03	0.00424		1.99E-02	0.005447	**p	0.013004715	0.00852		0.035461099	0.01041	**p	-0.04400422	0.00781	**n
		22:00-0:59	-3.95E+00	0.803602	**n	7.46E-03	0.00413	* p	2.12E-02	0.005342	**p	0.013657004	0.00835		0.034697296	0.01018	**p	-0.0412407	0.00811	**n
		1:00-3:59	-4.58E+00	0.771124	**n	8.96E-03	0.00419	**p	2.15E-02	0.005155	**p	0.020654336	0.00826	**p	0.036982841	0.00967	**p	-0.03516304	0.00733	**n
	1	9:00-13:59	-5.27E+00	0.89958	**n	2.16E-02	0.00478	**p	2.69E-02	0.005314	**p	0.033493133	0.01055	**p	0.04218378	0.01127	**p	-0.01704642	0.00713	**n
		19:00-21:59	-3.43E+00	0.790887	**n	1.37E-02	0.00441	**p	2.88E-02	0.005673	**p	0.038024362	0.00886	**p	0.055651266	0.01084	**p	-0.03932641	0.00808	**n
		22:00-0:59	-4.18E+00	0.876957	**n	1.31E-02	0.00452	**p	2.54E-02	0.005874	**p	0.029727303	0.00915	**p	0.046092683	0.01118	**p	-0.03953658	0.0088	**n
		1:00-3:59	-3.22E+00	0.838692	**n	6.93E-03	0.00456		2.05E-02	0.005633	**p	0.017822573	0.00901	**p	0.037153582	0.01057	**p	-0.03820698	0.00788	**n
	2	9:00-13:59	-3.73E+00	0.961933	**n	2.10E-02	0.00511	**p	2.78E-02	0.005675	**p	0.048210783	0.01126	**p	0.055441895	0.01204	**p	-0.02374995	0.00763	**n
		19:00-21:59	-1.69E+00	0.829402	**n	7.30E-03	0.00463		1.03E-02	0.005938	* p	0.014081086	0.00928		0.018735749	0.01135	* p	-0.01235696	0.0085	
		22:00-0:59	-1.83E-01	0.885682		6.11E-03	0.00456		3.89E-03	0.005929		0.010744126	0.00924		0.012721395	0.01129		-0.00844785	0.00888	
		1:00-3:59	-9.69E-01	0.847506		1.08E-02	0.00461	**p	1.40E-02	0.005689	**p	0.023216928	0.0091	**p	0.030518915	0.01067	**p	-0.01623059	0.00795	**n
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EC	0	9:00-13:59	-2.82E+00	1.713542	* n	2.66E-03	0.00891		7.00E-03	0.010038		0.016547275	0.01996		0.008568214	0.02139		-0.00539251	0.01318	
		19:00-21:59	-7.73E+00	1.505354	**n	1.65E-02	0.00831	**p	4.05E-02	0.010802	**p	0.04610014	0.01681	**p	0.076230445	0.02066	**p	-0.06888216	0.01536	**n
		22:00-0:59	-5.55E+00	1.615234	**n	1.34E-02	0.00815	* p	3.63E-02	0.01074	**p	0.026538147	0.01649		0.064307699	0.0204	**p	-0.07127235	0.01606	**n
		1:00-3:59	-6.85E+00	1.550347	**n	1.57E-02	0.0083	* p	3.16E-02	0.010368	**p	0.032661823	0.01639	**p	0.052566996	0.01938	**p	-0.04973395	0.01445	**n
	1	9:00-13:59	-3.16E+00	1.816689	* n	2.56E-02	0.00949	**p	2.92E-02	0.010748	**p	0.043774092	0.02127	**p	0.045034408	0.02286	**p	-0.016319	0.01388	
		19:00-21:59	-6.98E+00	1.642865	**n	2.38E-02	0.00906	**p	4.83E-02	0.011866	**p	0.061925571	0.01838	**p	0.093056173	0.02268	**p	-0.06950961	0.01653	**n
		22:00-0:59	-4.66E+00	1.732557	**n	2.05E-02	0.00878	**p	3.46E-02	0.01168	**p	0.046664874	0.01784	**p	0.067136888	0.02217	**p	-0.05325898	0.01703	**n
		1:00-3:59	-5.31E+00	1.664152	**n	1.57E-02	0.00893	* p	3.42E-02	0.011224	**p	0.037366063	0.0177	**p	0.064881389	0.02098	**p	-0.05964015	0.01515	**n
	2	9:00-13:59	-7.28E+00	1.76458	**n	3.96E-02	0.00917	**p	5.56E-02	0.010325	**p	0.086289145	0.02054	**p	0.108517041	0.02201	**p	-0.04883693	0.01358	**n
		19:00-21:59	-3.84E+00	1.570835	**n	2.11E-02	0.00867	**p	2.65E-02	0.011281	**p	0.049541593	0.01754	**p	0.052755316	0.02157	**p	-0.02002792	0.016	
		22:00-0:59	-1.91E+00	1.677501		1.26E-02	0.00847		1.18E-02	0.01119		0.023291277	0.01716		0.031971638	0.02125		-0.02237979	0.01663	
		1:00-3:59	-2.64E+00	1.605183	* n	1.61E-02	0.0086	* p	2.22E-02	0.010759	**p	0.030010558	0.017	* p	0.046522795	0.02011	**p	-0.03354657	0.01486	**n
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OC	0	9:00-13:59	9.67E-01	0.263502	**p	-3.38E-03	0.00138	**n	-3.83E-03	0.001571	**n	-0.00355848	0.0031		-0.00653521	0.00334	* n	0.003875958	0.00202	* p
		19:00-21:59	-1.90E-01	0.238683		4.84E-04	0.00131		9.42E-04	0.001728		0.003519162	0.00266		0.002953472	0.0033		-0.00012879	0.00239	
		22:00-0:59	-5.93E-01	0.259105	**n	-3.18E-05	0.00131		2.98E-03	0.001755	* p	0.000621648	0.00267		0.004727766	0.00333		-0.00666768	0.00256	**n
		1:00-3:59	-6.05E-01	0.24931	**n	6.11E-04	0.00133		2.09E-03	0.001682		0.001385297	0.00264		0.002582287	0.00314		-0.0031937	0.00228	
	1	9:00-13:59	2.27E-01	0.304991		-2.17E-04	0.0016		-4.60E-04	0.001831		-0.00122065	0.0036		-0.00231055	0.00388		0.001291978	0.00233	
		19:00-21:59	-6.19E-01	0.278076	**n	2.44E-03	0.00152		3.69E-03	0.002017	* p	0.006148607	0.0031	**p	0.00740157	0.00385	* p	-0.00250379	0.00276	
		22:00-0:59	-3.79E-01	0.293913		1.38E-03	0.0015		2.55E-03	0.002016		0.004236638	0.00306		0.005234979	0.00382		-0.00221608	0.00286	
		1:00-3:59	-8.01E-01	0.284225	**n	4.50E-03	0.00152	**p	5.54E-03	0.00193	**p	0.009233944	0.00303	**p	0.010915196	0.0036	**p	-0.00231445	0.00254	
	2	9:00-13:59	-5.52E-01	0.268565	**n	2.64E-03	0.00141	* p	3.55E-03	0.00159	**p	0.007299401	0.00315	**p	0.008166571	0.00338	**p	-0.00120282	0.00207	
		19:00-21:59	-1.39E-01	0.244506		2.28E-03	0.00134	* p	1.76E-03	0.001761		0.005677406	0.00272	**p	0.003694544	0.00337		0.002424443	0.00247	
		22:00-0:59	2.59E-01	0.263955		1.68E-03	0.00134		7.79E-05	0.001787		0.002817879	0.00272		0.001676565	0.00339		0.002775312	0.0026	
		1:00-3:59	-3.53E-01	0.254632		2.26E-03	0.00136	* p	2.11E-03	0.001716		0.004104581	0.0027		0.004806818	0.00321		-0.00038203	0.00232	
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Al	0	9:00-13:59	-1.01E+01	2.397141	**n	1.40E-02	0.01271		5.10E-02	0.0141	**p	0.014633174	0.02799		0.050319079	0.02991	* p	-0.08138541	0.01885	**n
		19:00-21:59	-1.18E+01	2.11749	**n	2.40E-02	0.0118	**p	5.56E-02	0.015146	**p	0.052735484	0.0237	**p	0.10864257	0.02893	**p	-0.09460228	0.02189	**n
		22:00-0:59	-9.37E+00	2.254401	**n	1.95E-02	0.01156	* p	3.81E-02	0.014971	**p	0.031366914	0.02337		0.059854991	0.02849	**p	-0.05735102	0.02287	**n
		1:00-3:59	-8.72E+00	2.152561	**n	2.83E-02	0.01163	**p	4.69E-02	0.014344	**p	0.054072064	0.02296	**p	0.083089314	0.0269	**p	-0.05868945	0.02047	**n
	1	9:00-13:59	-9.47E+00	2.434613	**n	2.87E-02	0.01297	**p	4.78E-02	0.014402	**p	0.041113231	0.02856		0.070473181	0.03053	**p	-0.05193854	0.0191	**n
		19:00-21:59	-5.45E+00	2.12714	**n	2.39E-02	0.01186	**p	5.21E-02	0.015223	**p	0.06672198	0.02382	**p	0.104516596	0.02908	**p	-0.07730433	0.02198	**n
		22:00-0:59	-9.05E+00	2.28831	**n	2.31E-02	0.01174	**p	4.64E-02	0.01523	**p	0.047531414	0.02375	**p	0.084249991	0.02898	**p	-0.07885976	0.02318	**n
		1:00-3:59	-6.05E+00	2.188349	**n	4.19E-03	0.01183		3.71E-02	0.014597	**p	0.016908505	0.02335		0.070613972	0.02738	**p	-0.09756672	0.02078	**n
	2	9:00-13:59	-8.81E+00	2.530282	**n	3.73E-02	0.01345	**p	5.48E-02	0.014918	**p	0.089836445	0.02961	**p	0.111292531	0.03164	**p	-0.05390182	0.01987	**n
		19:00-21:59	-8.23E-01	2.235		4.50E-03	0.01246		8.93E-03	0.015977		0.010448209	0.02501		0.011807408	0.03052		-0.0107677	0.02313	
		22:00-0:59	8.98E-01	2.408064		8.07E-03	0.01235		3.03E-03	0.016013		0.012530927	0.02498		0.011269545	0.03047		-0.00529023	0.02439	
		1:00-3:59	1.71E+00	2.308819		2.13E-02	0.01248	* p	1.65E-02	0.015392		0.038871182	0.02463		0.04379999	0.02887		-0.00707662	0.0219	
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Br	0	9:00-13:59	-3.79E+02	69.789995	**n	1.14E+00	0.37214	**p	1.73E+00	0.413162	**p	1.473604132	0.82222	* p	1.885316448	0.87876	**p	-1.29147777	0.55303	**n
		19:00-21:59	-4.22E+02	60.640437	**n	7.27E-01	0.33955	**p	1.85E+00	0.435596	**p	1.43450352	0.6819	**p	3.223322947	0.83316	**p	-3.39992856	0.62523	**n
		22:00-0:59	-3.54E+02	64.596658	**n	6.93E-01	0.33236	**p	1.77E+00	0.431107	**p	1.3466361	0.67261	**p	2.750584376	0.82104	**p	-2.89567742	0.65412	**n
		1:00-3:59	-5.07E+02	61.96773	**n	1.01E+00	0.33894	**p	2.28E+00	0.416675	**p	1.852544877	0.66935	**p	3.661292149	0.78282	**p	-3.48952473	0.59079	**n
	1	9:00-13:59	-4.29E+02	72.064794	**n	1.55E+00	0.38502	**p	2.19E+00	0.428138	**p	1.973294901	0.85056	**p	3.121659052	0.9092	**p	-2.09922401	0.57084	**n
		19:00-21:59	-2.82E+02	67.857709	**n	1.11E+00	0.37974	**p	2.24E+00	0.486258	**p	2.965243186	0.76222	**p	4.257683147	0.93032	**p	-2.79354108	0.70363	**n
		22:00-0:59	-3.29E+02	74.819098	**n	1.06E+00	0.38462	**p	1.57E+00	0.498257	**p	1.993857002	0.77801	**p	2.921210945	0.94905	**p	-1.97800043	0.75939	**n
		1:00-3:59	-1.49E+02	70.807292	**n	2.16E-01	0.38725		1.38E+00	0.475963	**p	0.814236973	0.76466		2.521800646	0.89421	**p	-3.08403347	0.67717	**n
	2	9:00-13:59	-6.18E+01	76.280895		7.17E-01	0.40793	* p	6.42E-01	0.4532		1.395815269	0.90115		0.993050856	0.96328		-0.06267901	0.60354	
		19:00-21:59	-1.19E+02	65.00524	* n	3.29E-01	0.36405		4.54E-01	0.467162		0.757995157	0.73116		0.878399763	0.89351		-0.57408858	0.66895	
		22:00-0:59	-4.69E+01	69.547375		3.95E-01	0.35864		4.21E-01	0.466622		0.996692373	0.72662		1.134135445	0.88843		-0.55290429	0.70069	
		1:00-3:59	-1.11E+02	66.051986	* n	9.76E-01	0.36164	**p	1.17E+00	0.445669	**p	1.873874218	0.71503	**p	2.472307283	0.83715	**p	-0.83069737	0.62235	
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--

Appendix Table D.1 continued **Manhattan**.

Estimated coefficient and its standard error of single pollutant at lag 0-2 days for 6 outcomes and 4 time periods

				HR			LnSDNN			LnRMSSD			LnLF			LnHF			LF/HF	
Variable	Lag	TimePeriod	Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error	
Ca	0	9:00-13:59	-5.34E+00	2.35489	**n	3.14E-02	0.01248	**p	4.01E-02	0.013898	**p	0.067544345	0.02748	**p	0.079655812	0.0294	**p	-0.02623796	0.01851	
		19:00-21:59	-6.66E+00	1.881013	**n	2.31E-02	0.01045	**p	3.41E-02	0.013497	**p	0.047030696	0.02101	**p	0.06736052	0.02578	**p	-0.04152171	0.01932	**n
		22:00-0:59	-5.87E+00	1.992888	**n	3.15E-02	0.01018	**p	4.58E-02	0.013275	**p	0.054649994	0.02062	**p	0.078875098	0.02525	**p	-0.04333991	0.02002	**n
		1:00-3:59	-7.17E+00	1.905328	**n	4.19E-02	0.0102	**p	4.02E-02	0.012709	**p	0.073547101	0.02021	**p	0.072694107	0.02383	**p	-0.00778471	0.01799	
	1	9:00-13:59	-4.10E+00	2.350634	* n	2.48E-02	0.01259	**p	2.38E-02	0.014041	* p	0.022746006	0.02768		0.030247765	0.02965		-0.01186477	0.01837	
		19:00-21:59	-1.74E+00	2.079756		2.05E-02	0.01156	* p	1.99E-02	0.015031		0.047886696	0.0233	**p	0.040810983	0.02869		-0.00979307	0.021	
		22:00-0:59	-5.50E+00	2.22454	**n	1.57E-02	0.01143		2.95E-02	0.015081	* p	0.019287328	0.02325		0.042938697	0.02865		-0.0518078	0.02198	**n
		1:00-3:59	-3.79E+00	2.134495	* n	1.02E-02	0.01147		2.61E-02	0.014391	* p	0.009982394	0.0228		0.037507836	0.02697		-0.05198698	0.01953	**n
	2	9:00-13:59	-8.77E+00	2.275989	**n	2.52E-02	0.01205	**p	3.30E-02	0.013419	**p	0.05875697	0.02653	**p	0.064986755	0.02838	**p	-0.0299009	0.0179	* n
		19:00-21:59	-5.32E+00	2.005756	**n	2.43E-02	0.01114	**p	2.56E-02	0.014405	* p	0.051303832	0.02241	**p	0.049770867	0.02751	* p	-0.01455263	0.02055	
		22:00-0:59	-2.13E+00	2.189454		1.56E-02	0.01121		2.31E-02	0.014678		0.02680338	0.02274		0.042429288	0.0279		-0.03373483	0.02185	
		1:00-3:59	-5.45E+00	2.099224	**n	4.80E-02	0.01126	**p	4.94E-02	0.01407	**p	0.072743623	0.02234	**p	0.089136457	0.02637	**p	-0.03271628	0.01954	* n
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
Cr	0	9:00-13:59	-5.45E+00	69.868141		-3.07E-01	0.37063		-5.23E-02	0.413249		-1.26644968	0.81518		-0.82804606	0.87322		-0.53001037	0.54633	
		19:00-21:59	9.11E+01	59.311851		-5.21E-01	0.32858		-3.14E-01	0.425751		-0.8608648	0.66166		-0.66736842	0.81315		0.07654072	0.6049	
		22:00-0:59	5.07E+01	62.532604		-5.90E-01	0.31967	* n	-5.25E-01	0.41867		-1.45896171	0.64771	**n	-1.3721983	0.79523	* n	0.539197377	0.62552	
		1:00-3:59	2.28E+01	59.966833		-5.11E-01	0.32302		-2.43E-01	0.401356		-0.80170998	0.63827		-0.49204644	0.75182		0.059573842	0.56045	
	1	9:00-13:59	-3.99E+00	73.60804		-1.18E-01	0.39558		-1.07E-01	0.442412		-0.3111362	0.86912		-0.29892441	0.93229		-0.16802793	0.57072	
		19:00-21:59	1.51E+02	67.428656	**p	-6.84E-01	0.37409	* n	-2.88E-01	0.487463		-1.07781938	0.75454		-0.7066032	0.93031		-0.15035875	0.67777	
		22:00-0:59	9.16E+01	70.751972		-4.88E-02	0.36345		-1.05E-01	0.480347		-0.47667516	0.7387		-0.41970999	0.91154		0.468145099	0.6993	
		1:00-3:59	9.27E+01	68.027038		-1.04E+00	0.367	**n	-8.79E-01	0.458905	* n	-2.42281078	0.72733	**n	-2.25343389	0.85921	**n	0.191823513	0.62155	
	2	9:00-13:59	2.60E+01	70.889048		-3.24E-01	0.37622		-4.56E-01	0.419673		-0.31817272	0.82744		-0.35069359	0.88639		-0.08437128	0.55413	
		19:00-21:59	1.63E+02	61.112499	**p	-3.43E-01	0.33851		-3.18E-01	0.438365		-0.55725329	0.68153		-0.66922329	0.83731		0.562356314	0.62414	
		22:00-0:59	1.16E+02	64.78319	* p	-1.29E-01	0.33101		-3.08E-01	0.433088		-0.46922069	0.67045		-0.67987081	0.8227		0.706646471	0.64882	
		1:00-3:59	1.40E+02	61.950204	**p	-4.56E-01	0.33365		-7.87E-01	0.414296	* n	-0.80602635	0.65907		-1.39658368	0.7761	* n	1.142108681	0.58028	**p
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
Cu	0	9:00-13:59	-9.27E+01	36.422916	**n	4.11E-01	0.19288	**p	4.60E-01	0.21769	**p	0.977391817	0.42453	**p	1.249228509	0.45411	**p	-0.55964989	0.2855	* n
		19:00-21:59	-1.05E+02	31.578996	**n	1.13E-01	0.17552		3.87E-01	0.226766	* p	0.204816376	0.35314		0.650505238	0.43332		-0.7965428	0.32342	**n
		22:00-0:59	-5.91E+01	33.372216	* n	2.58E-01	0.17052		3.77E-01	0.222547	* p	0.349729224	0.34546		0.647026509	0.42312		-0.51714202	0.33537	
		1:00-3:59	-4.43E+01	31.95042		6.39E-02	0.17187		1.60E-01	0.213025		0.109008287	0.33948		0.244800063	0.39923		-0.35976396	0.3003	
	1	9:00-13:59	-4.87E+01	37.714805		3.01E-01	0.20144		1.41E-01	0.224068		0.292507119	0.44303		0.235829017	0.47431		0.053170525	0.29425	
		19:00-21:59	1.86E+01	33.330621		9.55E-03	0.18538		5.97E-02	0.24056		0.003497879	0.37345		0.092711574	0.4594		-0.30950829	0.33739	
		22:00-0:59	-4.75E+01	35.861258		-7.83E-02	0.18402		8.43E-02	0.242203		-0.23584755	0.37391		0.068461009	0.46011		-0.62639558	0.35619	* n
		1:00-3:59	-6.52E+00	34.589577		-2.72E-01	0.18642		-2.00E-01	0.232351		-0.76967149	0.36922	**n	-0.57690276	0.43531		-0.43139001	0.31817	
	2	9:00-13:59	-7.47E+01	37.947714	**n	5.00E-02	0.20065		1.17E-01	0.223627		0.071411289	0.44171		0.079594064	0.47242		-0.28645757	0.29772	
		19:00-21:59	-1.07E+01	32.80645		1.16E-01	0.18233		4.06E-02	0.235489		0.310817107	0.36681		0.127051952	0.45001		0.06565243	0.33634	
		22:00-0:59	4.09E+01	35.248712		-2.17E-01	0.1803		-2.24E-01	0.23581		-0.41131698	0.36556		-0.38760273	0.44825		-0.21317688	0.35314	
		1:00-3:59	-4.74E+01	34.290317		2.43E-01	0.18458		3.66E-01	0.229223		0.190579973	0.36493		0.578856031	0.42954		-0.77432745	0.3196	**n
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
Fe	0	9:00-13:59	-3.22E+00	1.49066	**n	1.94E-02	0.00788	**p	2.09E-02	0.00886	**p	0.042218628	0.01737	**p	0.046821239	0.0186	**p	-0.01214343	0.01169	
		19:00-21:59	-3.93E+00	1.264892	**n	8.91E-03	0.00703		1.81E-02	0.009087	**p	0.016351332	0.01414		0.031378891	0.01736	* p	-0.02906902	0.01294	**n
		22:00-0:59	-2.67E+00	1.332424	**n	1.70E-02	0.00681	**p	2.19E-02	0.008881	**p	0.032120034	0.01379	**p	0.042015168	0.01688	**p	-0.01899518	0.01339	
		1:00-3:59	-2.89E+00	1.274341	**n	1.42E-02	0.00686	**p	1.75E-02	0.008505	**p	0.02903631	0.01356	**p	0.034631378	0.01594	**p	-0.01306246	0.012	
	1	9:00-13:59	-1.96E+00	1.484869		2.04E-02	0.0079	**p	1.37E-02	0.008818		0.026717839	0.01738		0.026101929	0.01863		0.0027978	0.01161	
		19:00-21:59	1.16E+00	1.299742		9.04E-03	0.00723		5.40E-03	0.009371		0.020361762	0.01455		0.013076899	0.0179		0.004483404	0.01319	
		22:00-0:59	-1.14E+00	1.408824		5.28E-03	0.00722		1.05E-02	0.00949		0.006265902	0.01466		0.015700099	0.01803		-0.02107811	0.01403	
		1:00-3:59	-7.80E-01	1.352564		1.51E-03	0.00729		5.03E-03	0.009088		-0.0041418	0.01445		0.002590175	0.01702		-0.01384078	0.01251	
	2	9:00-13:59	-3.31E+00	1.514049	**n	2.02E-02	0.00799	**p	1.54E-02	0.008921	* p	0.038615122	0.01761	**p	0.029125985	0.01885		0.004299529	0.01188	
		19:00-21:59	-9.70E-01	1.297378		8.54E-03	0.00721		4.37E-03	0.009306		0.015638417	0.0145		0.009797965	0.01779		0.002049273	0.01332	
		22:00-0:59	1.69E+00	1.413338		-1.41E-04	0.00723		-3.81E-03	0.009451		-0.00220763	0.01465		-0.00258636	0.01796		-0.00177935	0.01416	
		1:00-3:59	-2.77E+00	1.364213	**n	1.99E-02	0.00735	**p	1.98E-02	0.009138	**p	0.026049969	0.01454	* p	0.038087174	0.01712	**p	-0.02244926	0.01272	* n
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
K	0	9:00-13:59	-4.39E+00	3.417328		2.29E-02	0.01805		3.55E-02	0.020118	* p	0.042418511	0.03978		0.058833937	0.04258		-0.0305515	0.0268	
		19:00-21:59	-8.29E+00	2.887267	**n	2.16E-02	0.01599		4.62E-02	0.020585	**p	0.049502655	0.03215		0.081531991	0.03934	**p	-0.05608781	0.02964	* n
		22:00-0:59	-7.54E+00	3.074441	**n	4.96E-03	0.01571		4.02E-02	0.020409	**p	0.005005195	0.03177		0.050736511	0.03884		-0.09127771	0.03094	**n
		1:00-3:59	-4.12E+00	2.939321		1.18E-02	0.01584		1.37E-02	0.019593		0.015305788	0.03126		0.018558473	0.03674		-0.01906289	0.02779	
	1	9:00-13:59	-7.77E+00	3.56782	**n	5.24E-02	0.01905	**p	5.11E-02	0.021281	**p	0.080318898	0.04194	* p	0.073618895	0.04494		0.001458504	0.02781	
		19:00-21:59	-5.27E+00	3.089398	* n	3.67E-02	0.01713	**p	5.10E-02	0.022164	**p	0.067478061	0.03449	* p	0.091843834	0.04233	**p	-0.04750463	0.03126	
		22:00-0:59	-5.92E+00	3.274364	* n	1.64E-02	0.01681		2.39E-02	0.022037		0.036704166	0.03411		0.059077344	0.0419		-0.04979384	0.03254	
		1:00-3:59	-8.82E-01	3.147341		2.40E-04	0.01699		1.24E-02	0.021143		-0.01596517	0.03363		0.022018729	0.03963		-0.06557179	0.02905	**n
	2	9:00-13:59	-6.09E+00	3.492762	* n	1.28E-02	0.01842		2.36E-02	0.020522		0.026427025	0.04059		0.040716054	0.04345		-0.03818258	0.02742	
		19:00-21:59	1.93E+00	3.025095		-5.11E-03	0.01675		-2.78E-02	0.021552		-0.0232173	0.03368		-0.06099277	0.04119		0.058087745	0.03109	* p
		22:00-0:59	1.70E+00	3.23198		-8.79E-03	0.01652		-2.39E-02	0.021462		-0.01893016	0.03341		-0.0261881	0.04084		-0.00700068	0.03251	
		1:00-3:59	2.36E+00	3.098292		1.40E-02	0.0167		9.40E-03	0.020665		0.021333433	0.03296		0.034804235	0.03874		-0.03109023	0.02922	
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
Mg	0	9:00-13:59	-9.49E+00	5.202451	* n	1.89E-02	0.02754		8.20E-02	0.030642	**p	0.088834916	0.06061		0.155255878	0.06484	**p	-0.13620352	0.04064	**n
		19:00-21:59	-1.89E+01	4.339894	**n	2.52E-02	0.02414		8.37E-02	0.031082	**p	0.07906877	0.04851		0.167487161	0.05939	**p	-0.17184903	0.04462	**n
		22:00-0:59	-2.33E+01	4.614328	**n	5.73E-02	0.02364	**p	1.32E-01	0.030593	**p	0.087027782	0.04784	* p	0.205400644	0.0583	**p	-0.18883364	0.04673	**n
		1:00-3:59	-1.87E+01	4.41958	**n	3.55E-02	0.02388		8.39E-02	0.029453	**p	0.077631085	0.04711	* p	0.159602794	0.05523	**p	-0.1528429	0.04206	**n
	1	9:00-13:59	-1.97E+01	5.30834	**n	1.84E-03	0.02831		8.84E-02	0.031466	**p	-0.0071613	0.06226		0.10805416	0.06665		-0.21060621	0.04126	**n
		19:00-21:59	-1.52E+01	4.726929	**n	3.59E-02	0.02631		8.16E-02	0.03402	**p	0.108894822	0.05294	**p	0.150634068	0.06497	**p	-0.1111151	0.04811	**n
		22:00-0:59	-1.76E+01	4.949481	**n	7.21E-02	0.02543	**p	9.68E-02	0.033101	**p	0.127941904	0.05156	**p	0.159526774	0.06304	**p	-0.09475426	0.04979	* n
		1:00-3:59	-5.89E+00	4.749111		1.80E-02	0.02569		5.09E-02	0.031804		0.0303885	0.05077		0.088035275	0.05962		-0.10733413	0.0446	**n
	2	9:00-13:59	-3.08E+00	5.457525		5.31E-02	0.02883	* p	5.37E-02	0.032102	* p	0.111794271	0.06346	* p	0.111411823	0.06789		-0.02065086	0.0427	
		19:00-21:59	-5.44E+00	4.598882		2.96E-02	0.02557		3.98E-02	0.032885		0.031644825	0.05137		0.064843489	0.06285		-0.03391042	0.04744	
		22:00-0:59	-4.92E+00	4.994815		3.80E-02	0.02558		3.56E-02	0.033092		0.053621045	0.05176		0.0615843	0.06307		-0.0125129	0.0506	
		1:00-3:59	-9.90E-01	4.778605		4.36E-02	0.02582	* p	4.03E-02	0.031835		0.07939197	0.05093		0.085259227	0.0597		-0.00465613	0.0455	
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--

Appendix Table D.1 continued **Manhattan**.

Estimated coefficient and its standard error of single pollutant at lag 0-2 days for 6 outcomes and 4 time periods

				HR			LnSDNN			LnRMSSD			LnLF			LnHF			LF/HF	
Variable	Lag	TimePeriod	Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error	
Mn	0	9:00-13:59	-3.67E+01	17.596555	**n	1.05E-01	0.09325		2.24E-01	0.104004	**p	0.28659764	0.20534		0.391412858	0.21976	* p	-0.20143904	0.1377	
		19:00-21:59	-2.82E+01	14.672811	* n	1.23E-01	0.08145		1.56E-01	0.105236		0.274083513	0.16387	* p	0.269527019	0.20111		-0.08744081	0.14988	
		22:00-0:59	-1.76E+01	15.475347		1.66E-01	0.07911	**p	1.75E-01	0.103337	* p	0.307904524	0.16028	* p	0.361297335	0.19643	* p	-0.14848397	0.15505	
		1:00-3:59	-1.55E+01	14.795158		1.75E-01	0.07961	**p	1.64E-01	0.098858	* p	0.383281398	0.15725	**p	0.379264326	0.18512	**p	-0.05839166	0.13887	
	1	9:00-13:59	-1.12E+01	17.447706		1.88E-01	0.09313	**p	1.60E-01	0.103967		0.266776171	0.20493		0.268724597	0.2195		0.03487722	0.13599	
		19:00-21:59	2.69E+01	15.216684	* p	8.30E-02	0.08452		-6.87E-02	0.109689		0.141900264	0.17026		-0.09349999	0.2095		0.289841297	0.15367	* p
		22:00-0:59	2.86E+00	16.148466		6.03E-02	0.08284		-6.36E-03	0.109077		0.048653648	0.1683		-0.01026555	0.20718		0.020521343	0.16017	
		1:00-3:59	2.19E+01	15.513898		-7.03E-02	0.08362		-1.18E-01	0.104421		-0.2315982	0.16561		-0.26183507	0.19547		0.003356723	0.14272	
	2	9:00-13:59	-1.77E+01	17.286126		1.39E-01	0.09137		7.83E-02	0.10179		0.143097141	0.20125		0.035440855	0.21531		0.142363423	0.13549	
		19:00-21:59	8.46E+00	14.914157		3.12E-02	0.08278		-1.19E-01	0.106822		0.004347913	0.16648		-0.19883044	0.20418		0.25235029	0.15281	* p
		22:00-0:59	2.52E+01	16.174407		-1.38E-02	0.08269		-1.43E-01	0.108052		-0.07261127	0.16757		-0.19110768	0.20539		0.14826135	0.16196	
		1:00-3:59	-1.49E+01	15.610843		1.36E-01	0.08404		7.65E-02	0.104549		0.152413166	0.16614		0.165070695	0.19575		-0.10034143	0.14567	
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Na	0	9:00-13:59	-8.34E+00	1.762709	**n	2.69E-02	0.00942	**p	4.20E-02	0.010452	**p	0.055932866	0.02077	**p	0.077263894	0.02219	**p	-0.04111933	0.01386	**n
		19:00-21:59	-9.93E+00	1.516452	**n	2.47E-02	0.00848	**p	5.40E-02	0.010913	**p	0.059174324	0.01705	**p	0.101602428	0.02085	**p	-0.07535745	0.01556	**n
		22:00-0:59	-9.95E+00	1.606065	**n	2.14E-02	0.00828	**p	5.91E-02	0.01077	**p	0.040658729	0.01676	**p	0.09542912	0.02049	**p	-0.09093628	0.01614	**n
		1:00-3:59	-1.31E+01	1.525911	**n	4.74E-02	0.00832	**p	7.27E-02	0.010269	**p	0.086148479	0.01648	**p	0.12450303	0.0193	**p	-0.06775525	0.01449	**n
	1	9:00-13:59	-1.09E+01	1.836933	**n	4.02E-02	0.00994	**p	6.28E-02	0.011102	**p	0.060029165	0.02191	**p	0.091928337	0.02342	**p	-0.0604048	0.01436	**n
		19:00-21:59	-8.58E+00	1.602573	**n	2.68E-02	0.00898	**p	5.12E-02	0.011632	**p	0.063472431	0.01808	**p	0.095003921	0.0222	**p	-0.06089793	0.01614	**n
		22:00-0:59	-8.95E+00	1.689953	**n	3.81E-02	0.00876	**p	5.38E-02	0.011527	**p	0.080391485	0.01782	**p	0.108908064	0.02191	**p	-0.0537701	0.01676	**n
		1:00-3:59	-4.97E+00	1.614443	**n	2.21E-02	0.00882	**p	3.96E-02	0.01097	**p	0.044057084	0.01753	**p	0.073954617	0.0206	**p	-0.05255492	0.01493	**n
	2	9:00-13:59	-3.46E+00	1.789956	* n	7.43E-03	0.00955		1.81E-02	0.010595	* p	0.018512542	0.02106		0.030313028	0.0225		-0.03263513	0.01409	**n
		19:00-21:59	-5.27E+00	1.576601	**n	2.33E-02	0.00882	**p	4.04E-02	0.011348	**p	0.046339719	0.01772	**p	0.078319818	0.02168	**p	-0.05017073	0.01616	**n
		22:00-0:59	-4.98E+00	1.668901	**n	1.72E-02	0.0086	**p	2.54E-02	0.011194	**p	0.034792166	0.01742	**p	0.045529647	0.0213	**p	-0.02461018	0.01677	
		1:00-3:59	-4.96E+00	1.584725	**n	2.43E-02	0.00864	**p	3.08E-02	0.010667	**p	0.039109	0.01711	**p	0.052629136	0.02005	**p	-0.01787915	0.01504	
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Ni	0	9:00-13:59	-9.74E+01	20.649004	**n	3.06E-01	0.10982	**p	5.06E-01	0.122	**p	0.565055618	0.2423	**p	0.85483972	0.25877	**p	-0.57753362	0.16279	**n
		19:00-21:59	-1.05E+02	17.764653	**n	2.43E-01	0.09879	**p	5.99E-01	0.127037	**p	0.520366777	0.19855	**p	1.097002804	0.24282	**p	-1.04052776	0.18213	**n
		22:00-0:59	-1.03E+02	18.369727	**n	2.57E-01	0.09424	**p	5.86E-01	0.122013	**p	0.36782465	0.19068	* p	0.907091417	0.23237	**p	-0.94804476	0.18542	**n
		1:00-3:59	-1.15E+02	17.691679	**n	3.79E-01	0.0955	**p	6.37E-01	0.117938	**p	0.833200978	0.18851	**p	1.144841794	0.22123	**p	-0.68398419	0.16906	**n
	1	9:00-13:59	-1.15E+02	21.446175	**n	4.80E-01	0.1149	**p	6.03E-01	0.127683	**p	0.64261394	0.25337	**p	0.901278753	0.27064	**p	-0.47144743	0.16858	**n
		19:00-21:59	-6.05E+01	18.544972	**n	2.75E-01	0.10325	**p	5.34E-01	0.133219	**p	0.775609775	0.2077	**p	1.045970961	0.25451	**p	-0.68633436	0.1883	**n
		22:00-0:59	-9.57E+01	21.10076	**n	3.06E-01	0.10902	**p	5.64E-01	0.14263	**p	0.652536247	0.22141	**p	1.056581344	0.27134	**p	-0.89153774	0.20996	**n
		1:00-3:59	-5.83E+01	20.235429	**n	9.15E-02	0.1096		3.16E-01	0.136292	**p	0.190041057	0.21707		0.5527584	0.25553	**p	-0.74813852	0.18798	**n
	2	9:00-13:59	-1.09E+02	23.376539	**n	3.20E-01	0.12404	**p	5.91E-01	0.137785	**p	0.787860925	0.27373	**p	1.07448629	0.29232	**p	-0.78550133	0.18446	**n
		19:00-21:59	-7.23E+01	20.097347	**n	4.14E-01	0.11173	**p	5.85E-01	0.143537	**p	0.802933478	0.2245	**p	1.106972757	0.2744	**p	-0.61450069	0.20651	**n
		22:00-0:59	-7.57E+01	21.715066	**n	2.97E-01	0.11181	**p	4.82E-01	0.145488	**p	0.608722148	0.22663	**p	0.940690086	0.27694	**p	-0.72772307	0.21752	**n
		1:00-3:59	-6.26E+01	20.748804	**n	4.79E-01	0.1122	**p	5.12E-01	0.13905	**p	0.829340921	0.22186	**p	0.987474942	0.26077	**p	-0.36365225	0.19523	* n
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P	0	9:00-13:59	-2.85E+01	6.173224	**n	1.11E-01	0.03271	**p	1.40E-01	0.036431	**p	0.161284397	0.07221	**p	0.208325376	0.07723	**p	-0.08098672	0.04871	* n
		19:00-21:59	-4.13E+01	5.350287	**n	8.28E-02	0.02999	**p	2.06E-01	0.038534	**p	0.199843927	0.06027	**p	0.37776455	0.07368	**p	-0.34297788	0.05503	**n
		22:00-0:59	-4.28E+01	5.637851	**n	9.52E-02	0.02917	**p	2.32E-01	0.037749	**p	0.204757897	0.05905	**p	0.395232211	0.0719	**p	-0.35178048	0.05682	**n
		1:00-3:59	-3.96E+01	5.442996	**n	1.08E-01	0.0296	**p	2.07E-01	0.036479	**p	0.224738083	0.05848	**p	0.352968946	0.06851	**p	-0.26530386	0.05157	**n
	1	9:00-13:59	-2.57E+01	6.493328	**n	1.24E-01	0.03466	**p	1.28E-01	0.038666	**p	0.161875957	0.07649	**p	0.176116535	0.08186	**p	-0.05005429	0.05109	
		19:00-21:59	-2.26E+01	5.650313	**n	9.78E-02	0.03171	**p	1.69E-01	0.040861	**p	0.23829051	0.06377	**p	0.313955237	0.0781	**p	-0.18853926	0.05772	**n
		22:00-0:59	-2.60E+01	6.164887	**n	7.21E-02	0.03202	**p	1.50E-01	0.04166	**p	0.159401037	0.06493	**p	0.259771488	0.0793	**p	-0.21335826	0.06176	**n
		1:00-3:59	-2.46E+01	5.918492	**n	3.94E-02	0.03225		1.39E-01	0.039911	**p	0.089806397	0.06384		0.214260662	0.07493	**p	-0.25159845	0.05531	**n
	2	9:00-13:59	-2.34E+01	6.820942	**n	1.42E-01	0.03628	**p	1.87E-01	0.040448	**p	0.278134729	0.08007	**p	0.329693445	0.08566	**p	-0.12841163	0.05373	**n
		19:00-21:59	-3.07E+01	5.816244	**n	1.12E-01	0.03261	**p	1.83E-01	0.041959	**p	0.233492794	0.06557	**p	0.341060367	0.08022	**p	-0.20518232	0.05962	**n
		22:00-0:59	-2.37E+01	6.154719	**n	7.31E-02	0.0319	**p	1.57E-01	0.041377	**p	0.140639059	0.06462	**p	0.296887086	0.07879	**p	-0.24482481	0.06183	**n
		1:00-3:59	-1.80E+01	5.949722	**n	1.20E-01	0.0324	**p	1.57E-01	0.040042	**p	0.224323093	0.0641	**p	0.300296894	0.07518	**p	-0.14949678	0.05577	**n
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Pb	0	9:00-13:59	-4.53E+00	11.624949		6.89E-02	0.06166		3.33E-02	0.069242		0.217120367	0.13561		0.16490531	0.1452		-0.00034015	0.09084	
		19:00-21:59	-2.55E+01	9.658328	**n	5.63E-02	0.05381		1.24E-01	0.069525	* p	0.05610287	0.10832		0.189739161	0.13289		-0.24900787	0.09888	**n
		22:00-0:59	-1.24E+01	10.457851		6.48E-02	0.05354		1.21E-01	0.070001	* p	0.176904005	0.10842		0.258737581	0.13293	* p	-0.18631025	0.10447	* n
		1:00-3:59	-6.39E+00	10.010771		7.30E-02	0.05396		5.68E-02	0.067015		0.086798103	0.1068		0.068417501	0.12558		-0.0329952	0.0935	
	1	9:00-13:59	8.48E+00	12.160408		6.33E-02	0.0654		-2.67E-02	0.072751		-0.00100361	0.14367		-0.06061909	0.1541		0.074865668	0.09419	
		19:00-21:59	2.26E+01	10.729013	**p	2.48E-02	0.05982		-3.04E-02	0.077812		0.001331303	0.12065		-0.05216296	0.14859		0.030446876	0.10776	
		22:00-0:59	1.26E+01	11.277405		-5.04E-03	0.05803		-4.49E-02	0.07668		-0.05370929	0.11795		-0.09569422	0.14547		0.04103209	0.11101	
		1:00-3:59	8.26E+00	10.847256		1.92E-02	0.05858		-4.21E-02	0.073275		-0.05701793	0.11634		-0.14048755	0.13725		0.085210011	0.09861	
	2	9:00-13:59	1.57E+01	11.473943		5.50E-02	0.06091		-6.24E-02	0.067866		0.056256067	0.13395		-0.09013233	0.14344		0.230653066	0.08962	**p
		19:00-21:59	5.65E+00	9.840646		1.19E-02	0.05482		-3.63E-02	0.07078		0.031975255	0.11033		-0.04085812	0.1353		0.049582517	0.10096	
		22:00-0:59	6.08E+00	10.532452		1.40E-03	0.05388		3.65E-02	0.070331		0.066177012	0.10904		0.086160583	0.13358		-0.10837626	0.10547	
		1:00-3:59	-1.89E+01	10.136083	* n	1.28E-01	0.05462	**p	1.17E-01	0.067778	* p	0.157784214	0.10807		0.20187916	0.12701		-0.12460133	0.09498	
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S	0	9:00-13:59	-7.02E-01	0.125817	**n	1.21E-03	0.00067	* p	2.74E-03	0.000744	**p	0.001898137	0.00148		0.003151777	0.00158	**p	-0.0034697	0.00099	**n
		19:00-21:59	-8.01E-01	0.107775	**n	1.62E-03	0.0006	**p	3.92E-03	0.000772	**p	0.003549445	0.00121	**p	0.006992735	0.00148	**p	-0.00689521	0.00111	**n
		22:00-0:59	-7.94E-01	0.113766	**n	1.45E-03	0.00059	**p	3.61E-03	0.000758	**p	0.002899398	0.00119	**p	0.005825404	0.00144	**p	-0.00615245	0.00115	**n
		1:00-3:59	-8.12E-01	0.108463	**n	1.68E-03	0.00059	**p	3.92E-03	0.000727	**p	0.003444989	0.00117	**p	0.006177479	0.00137	**p	-0.00582134	0.00103	**n
	1	9:00-13:59	-5.41E-01	0.12694	**n	2.68E-03	0.00068	**p	3.16E-03	0.000751	**p	0.002774897	0.00149	* p	0.00389065	0.00159	**p	-0.00190031	0.001	* n
		19:00-21:59	-5.33E-01	0.114244	**n	2.42E-03	0.00064	**p	4.37E-03	0.000818	**p	0.006022758	0.00128	**p	0.00829333	0.00157	**p	-0.00504815	0.00118	**n
		22:00-0:59	-5.68E-01	0.127411	**n	1.81E-03	0.00066	**p	3.40E-03	0.000852	**p	0.003907741	0.00133	**p	0.0062344	0.00162	**p	-0.00479757	0.00129	**n
		1:00-3:59	-4.68E-01	0.121537	**n	6.64E-04	0.00066		2.78E-03	0.000816	**p	0.001327967	0.00131		0.004695472	0.00153	**p	-0.00618853	0.00115	**n
	2	9:00-13:59	-2.62E-01	0.137475	* n	1.87E-03	0.00073	**p	2.28E-03	0.000816	**p	0.004456751	0.00162	**p	0.004465133	0.00173	**p	-0.00142733	0.00108	
		19:00-21:59	-2.53E-01	0.116709	**n	7.06E-04	0.00065		1.19E-03	0.000837		0.001886271	0.00131		0.002157886	0.0016		-0.00145535	0.0012	
		22:00-0:59	-2.04E-01	0.124125		1.43E-03	0.00064	**p	1.53E-03	0.000833	* p	0.002813142	0.0013	**p	0.003728589	0.00159	**p	-0.00183939	0.00125	
		1:00-3:59	-1.49E-01	0.118706		1.87E-03	0.00065	**p	2.25E-03	0.000798	**p	0.00413801	0.00128	**p	0.005085171	0.0015	**p	-0.00152955	0.00112	
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Appendix Table D.1 continued **Manhattan**.

Estimated coefficient and its standard error of single pollutant at lag 0-2 days for 6 outcomes and 4 time periods

				HR			LnSDNN			LnRMSSD			LnLF			LnHF			LF/HF	
Variable	Lag	TimePeriod	Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error	
Se	0	9:00-13:59	-2.83E+02	156.52184	* n	2.18E+00	0.82749	**p	1.66E+00	0.923139	* p	2.991887798	1.82413		1.692348262	1.95249		1.548789733	1.22641	
		19:00-21:59	-4.75E+02	132.84404	**n	8.14E-01	0.7389		2.06E+00	0.950364	**p	2.415572575	1.48427		3.503766878	1.81583	* p	-3.50165925	1.36377	**n
		22:00-0:59	-5.61E+02	141.4864	**n	1.28E+00	0.72482	* p	2.83E+00	0.943027	**p	3.065588743	1.46615	**p	4.495988956	1.79385	**p	-4.28709341	1.42318	**n
		1:00-3:59	-6.67E+02	135.44984	**n	6.09E-01	0.7364		2.65E+00	0.908676	**p	1.633751833	1.4537		3.624262186	1.70611	**p	-4.75589098	1.27965	**n
	1	9:00-13:59	-4.49E+02	160.54894	**n	2.30E+00	0.85626	**p	3.10E+00	0.955615	**p	3.538546772	1.88639	* p	4.606002887	2.02085	**p	-2.52757041	1.2531	**n
		19:00-21:59	-7.20E+02	145.32495	**n	2.04E+00	0.80943	**p	4.50E+00	1.045351	**p	5.399809145	1.62775	**p	8.803996858	1.99616	**p	-6.81049782	1.47595	**n
		22:00-0:59	-5.55E+02	153.22361	**n	1.18E+00	0.78815		3.07E+00	1.031972	**p	2.489822698	1.59773		5.387212421	1.96178	**p	-5.46254675	1.52942	**n
		1:00-3:59	-6.43E+02	146.17885	**n	8.06E-01	0.7961		3.48E+00	0.986575	**p	1.711607372	1.57479		5.401291945	1.8518	**p	-6.84793816	1.35969	**n
	2	9:00-13:59	-2.73E+02	160.24877	* n	1.00E+00	0.8481		1.40E+00	0.945682		1.937486311	1.86943		1.918804424	2.00117		-1.4536552	1.25494	
		19:00-21:59	-3.08E+02	135.35475	**n	7.41E-01	0.75309		8.55E-01	0.969397		2.522763397	1.51311	* p	1.77704958	1.85199		-0.57865062	1.38612	
		22:00-0:59	-3.21E+02	143.86183	**n	1.40E+00	0.73765	* p	1.30E+00	0.960945		3.574557461	1.49277	**p	3.606045101	1.82771	**p	-1.93424034	1.44444	
		1:00-3:59	-5.81E+01	136.98808		1.27E+00	0.7451	* p	1.57E+00	0.920429	* p	3.302359539	1.47166	**p	3.870339801	1.72804	**p	-1.71341857	1.28846	
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
Si	0	9:00-13:59	-6.77E+00	1.474285	**n	2.69E-02	0.00779	**p	4.09E-02	0.008664	**p	0.050524125	0.01716	**p	0.063071563	0.01836	**p	-0.03521684	0.01162	**n
		19:00-21:59	-5.88E+00	1.209137	**n	1.90E-02	0.00672	**p	3.39E-02	0.008646	**p	0.040266079	0.0135	**p	0.06513637	0.01652	**p	-0.04925754	0.01248	**n
		22:00-0:59	-4.34E+00	1.288823	**n	2.85E-02	0.00656	**p	3.15E-02	0.008534	**p	0.04830627	0.01328	**p	0.056243953	0.01623	**p	-0.02193709	0.01305	* n
		1:00-3:59	-3.93E+00	1.23046	**n	2.07E-02	0.0066	**p	2.79E-02	0.008176	**p	0.039390274	0.01304	**p	0.047789881	0.01533	**p	-0.02388687	0.01173	**n
	1	9:00-13:59	-2.97E+00	1.479961	**n	2.71E-02	0.00786	**p	2.45E-02	0.008746	**p	0.037637478	0.01731	**p	0.039822732	0.01852	**p	-0.00245325	0.01164	
		19:00-21:59	-1.09E+00	1.286855		1.78E-02	0.00715	**p	2.38E-02	0.009229	**p	0.041950579	0.01438	**p	0.04899469	0.01763	**p	-0.02133579	0.01318	
		22:00-0:59	-2.67E+00	1.383288	* n	1.06E-02	0.00706		1.93E-02	0.009241	**p	0.020904004	0.01432		0.033521968	0.01757	* p	-0.03255647	0.01389	**n
		1:00-3:59	-1.08E+00	1.324471		9.51E-03	0.00712		1.58E-02	0.008845	* p	0.017066951	0.01408		0.032505954	0.01658	* p	-0.02987492	0.01243	**n
	2	9:00-13:59	-5.79E+00	1.558115	**n	2.70E-02	0.00825	**p	3.12E-02	0.009178	**p	0.068203452	0.01817	**p	0.068600078	0.01945	**p	-0.01519434	0.01227	
		19:00-21:59	-9.00E-01	1.290619		7.99E-03	0.00717		6.16E-03	0.009228		0.020425302	0.01441		0.012094958	0.01763		0.002046408	0.0133	
		22:00-0:59	8.31E-01	1.405765		1.58E-02	0.00717	**p	1.25E-02	0.009357		0.033595376	0.01453	**p	0.034109447	0.01779	* p	-0.00567506	0.01415	
		1:00-3:59	-1.77E-01	1.344512		2.63E-02	0.00722	**p	1.86E-02	0.00896	**p	0.045574288	0.01428	**p	0.043210619	0.0168	**p	0.000287613	0.01267	
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Ti	0	9:00-13:59	-5.36E+01	28.515499	* n	2.91E-01	0.14795	**p	5.24E-01	0.164155	**p	0.670867688	0.32625	**p	0.792836088	0.34878	**p	-0.46636803	0.22624	**n
		19:00-21:59	-7.02E+01	23.292	**n	1.69E-01	0.12885		3.28E-01	0.164529	**p	0.299092237	0.25809		0.642979023	0.31444	**p	-0.54633703	0.24549	**n
		22:00-0:59	-7.94E+01	25.662149	**n	2.52E-01	0.13082	* p	3.49E-01	0.167475	**p	0.476448508	0.26352	* p	0.620920029	0.31939	* p	-0.43701862	0.26435	* n
		1:00-3:59	-8.49E+01	24.421758	**n	3.76E-01	0.13135	**p	5.23E-01	0.160922	**p	0.737731066	0.25822	**p	0.956477594	0.30184	**p	-0.51118365	0.23984	**n
	1	9:00-13:59	-1.23E+02	33.104045	**n	5.03E-01	0.17396	**p	6.09E-01	0.193451	**p	0.801580558	0.38321	**p	1.056533367	0.41009	**p	-0.46770374	0.26075	* n
		19:00-21:59	-3.83E+01	28.396905		4.56E-01	0.1572	**p	6.34E-01	0.201525	**p	1.130568669	0.31526	**p	1.356579181	0.38497	**p	-0.54855812	0.29544	* n
		22:00-0:59	-8.33E+01	30.590593	**n	1.89E-01	0.1565		5.31E-01	0.201765	**p	0.429070757	0.31602		0.918698499	0.3845	**p	-0.99886684	0.31154	**n
		1:00-3:59	-3.08E+01	29.216564		1.94E-01	0.15735		3.91E-01	0.193651	**p	0.54043572	0.31	* p	0.860427214	0.36311	**p	-0.70510056	0.28113	**n
	2	9:00-13:59	-5.71E+01	34.093229	* n	5.09E-01	0.17868	**p	4.52E-01	0.198562	**p	1.236698496	0.39369	**p	1.015443653	0.42121	**p	0.043947218	0.2689	
		19:00-21:59	4.44E+01	28.827845		-8.62E-02	0.15956		-2.65E-01	0.204325		-0.1832315	0.3199		-0.48780658	0.39038		0.308968031	0.30061	
		22:00-0:59	5.71E+01	31.475841	* p	-6.40E-03	0.16102		-2.16E-01	0.207495		0.13593354	0.32511		-0.11607194	0.39545		0.155628628	0.32049	
		1:00-3:59	1.93E+01	30.057004		2.38E-01	0.16187		2.03E-01	0.199167		0.508604523	0.31887		0.608768973	0.37347		-0.23822207	0.28903	
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V	0	9:00-13:59	-1.06E+02	28.248474	**n	4.77E-01	0.14978	**p	6.22E-01	0.166426	**p	0.862554016	0.33021	**p	1.168128281	0.35279	**p	-0.57333111	0.22296	**n
		19:00-21:59	-1.27E+02	24.533238	**n	2.00E-01	0.13667		6.06E-01	0.175731	**p	0.485740728	0.2744	* p	1.119235555	0.33582	**p	-1.2314162	0.25173	**n
		22:00-0:59	-1.48E+02	25.605212	**n	2.61E-01	0.13175	**p	7.37E-01	0.170683	**p	0.366010244	0.2665		1.084499756	0.32518	**p	-1.34517431	0.2582	**n
		1:00-3:59	-1.35E+02	24.610951	**n	2.94E-01	0.13338	**p	6.80E-01	0.164616	**p	0.669738111	0.26348	**p	1.163632208	0.30891	**p	-1.05492615	0.23289	**n
	1	9:00-13:59	-1.68E+02	28.951535	**n	5.41E-01	0.15487	**p	7.12E-01	0.172213	**p	0.76679657	0.34127	**p	1.079487457	0.36471	**p	-0.61704574	0.22777	**n
		19:00-21:59	-1.24E+02	25.200902	**n	3.73E-01	0.14057	**p	8.23E-01	0.181388	**p	1.079775566	0.28253	**p	1.577250775	0.34645	**p	-1.14195529	0.25605	**n
		22:00-0:59	-1.43E+02	27.932843	**n	4.27E-01	0.14453	**p	8.34E-01	0.188809	**p	0.903927481	0.29327	**p	1.477824446	0.35942	**p	-1.2978751	0.27844	**n
		1:00-3:59	-1.30E+02	26.841843	**n	1.82E-01	0.14587		6.55E-01	0.181021	**p	0.418368345	0.28895		1.086982441	0.33959	**p	-1.28783514	0.24864	**n
	2	9:00-13:59	-1.33E+02	30.528685	**n	6.48E-01	0.16187	**p	9.27E-01	0.179959	**p	1.40300237	0.35686	**p	1.740910034	0.38126	**p	-0.8724884	0.24096	**n
		19:00-21:59	-7.57E+01	26.243664	**n	2.84E-01	0.14618	* p	4.00E-01	0.187879	**p	0.438595341	0.29346		0.714408894	0.35905	**p	-0.57116716	0.26956	**n
		22:00-0:59	-5.21E+01	27.860479	* n	1.71E-01	0.14354		2.77E-01	0.186313		0.253183647	0.29056		0.538426355	0.35489		-0.64279847	0.28016	**n
		1:00-3:59	-5.26E+01	26.714047	**n	4.82E-01	0.14488	**p	4.98E-01	0.17906	**p	0.797170886	0.2864	**p	0.971804873	0.33599	**p	-0.34246681	0.25137	
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Zn	0	9:00-13:59	-1.83E+00	1.083532	* n	1.15E-02	0.00576	**p	6.08E-03	0.006577		0.023087201	0.01268	* p	0.026832639	0.01357	**p	-0.00550094	0.00848	
		19:00-21:59	2.33E-01	0.926272		-5.02E-03	0.00515		-8.49E-03	0.006676		-0.01321778	0.01036		-0.0178272	0.01275		0.004656556	0.0094	
		22:00-0:59	7.23E-01	0.980477		2.64E-03	0.00503		-1.53E-03	0.006605		0.004457504	0.0102		0.002992416	0.01254		0.001539436	0.00976	
		1:00-3:59	1.04E+00	0.938628		-1.47E-03	0.00507		-8.18E-03	0.006306		-0.00638496	0.01004		-0.01462362	0.01182		0.009689117	0.00871	
	1	9:00-13:59	1.09E+00	1.078589		-3.35E-03	0.00576		-1.09E-02	0.006401	* n	-0.00522683	0.01267		-0.00978195	0.01357		0.008065272	0.00842	
		19:00-21:59	3.30E+00	0.940556	**p	-6.11E-03	0.00523		-1.81E-02	0.00681	**n	-0.01842465	0.01054	* n	-0.03301323	0.013	**n	0.0206684	0.00946	**p
		22:00-0:59	1.67E+00	0.986089	* p	-4.99E-03	0.00507		-1.21E-02	0.0067	* n	-0.01401221	0.0103		-0.02284035	0.01272	* n	0.012990218	0.00977	
		1:00-3:59	9.07E-01	0.946716		-2.49E-03	0.00512		-9.87E-03	0.006393		-0.01211556	0.01016		-0.02180156	0.01198	* n	0.014457659	0.0087	* p
	2	9:00-13:59	-1.27E+00	1.086116		-2.09E-03	0.00578		-4.78E-03	0.006447		-0.01182139	0.01271		-0.01109345	0.01361		-0.00138791	0.00849	
		19:00-21:59	-2.64E-02	0.936999		2.22E-03	0.00521		-3.49E-03	0.006754		0.002958848	0.01049		-0.00509243	0.0129		0.006711608	0.0095	
		22:00-0:59	-3.66E-01	0.987966		-2.82E-03	0.00507		9.38E-04	0.006659		-0.00605446	0.01028		-0.00030279	0.01265		-0.01168155	0.00983	
		1:00-3:59	-2.12E+00	0.947626	**n	9.23E-03	0.00512	* p	1.01E-02	0.006369		0.009790165	0.01014		0.015462266	0.01194		-0.01314377	0.00878	

Appendix Table D.2. Acute Effects of CAPs on Frequency Domain HRV by Source Category at Manhattan

Estimated coefficient and its standard error of multiple pollutants at lag 0-2 days for 6 outcomes and 4 time periods
The 9 sources were obtained from the factor analysis

				HR			LnSDNN			LnRMSSD			LnLF			LnHF			LF/HF	
Variable	Lag	TimePeriod	Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error	
INC	0	9:00-13:59	-0.647249	2.6067		0.0470219	0.0141	**p	0.020542	0.01598		0.1001734	0.032	**p	0.0823048	0.034	**p	0.0220929	0.0205	
		19:00-21:5	-0.50116	2.3418		-0.002668	0.0133		-0.00701	0.01724		-0.019393	0.0269		-0.022408	0.0329		0.0002944	0.0241	
		22:00-0:59	-2.358663	2.5212		0.0117561	0.0131		0.0255572	0.01718		0.0259961	0.0266		0.0552781	0.0328	* p	-0.051757	0.0251	**n
		1:00-3:59	-3.819951	2.3848		0.0091703	0.0132		0.0109372	0.01639		0.0043561	0.0261		0.0091078	0.0307		-0.021541	0.0224	
	1	9:00-13:59	-6.451829	2.6245	**n	0.0247223	0.0143	* p	0.0261392	0.01583	* p	0.0334658	0.0323		0.0495422	0.0343		-0.034486	0.0206	* n
		19:00-21:5	0.019899	2.3796		0.0059909	0.0135		-0.000423	0.01757		0.0026361	0.0273		-0.001207	0.0335		-0.00363	0.0244	
		22:00-0:59	-0.377425	2.5521		0.0061224	0.0132		-0.003669	0.01747		0.0141624	0.027		0.0079084	0.0333		0.0002535	0.0254	
		1:00-3:59	0.480991	2.4139		0.012893	0.0134		0.0022383	0.01665		0.0128736	0.0265		0.0065226	0.0312		0.0057462	0.0226	
	2	9:00-13:59	-3.732046	2.7303		0.0044697	0.0148		-0.005208	0.01653		0.0114036	0.0336		-0.000982	0.0357		0.0055292	0.0214	
		19:00-21:5	-1.282512	2.4539		0.014812	0.0139		0.0092969	0.01809		0.0250909	0.0282		0.0197824	0.0345		0.0005942	0.0252	
		22:00-0:59	-0.922397	2.6351		0.0069717	0.0137		0.0107652	0.01802		0.0232327	0.0278		0.0291097	0.0344		-0.026833	0.0261	
		1:00-3:59	-3.534383	2.5125		0.0194585	0.0139		0.027995	0.01733		0.0409523	0.0276		0.0597729	0.0324	* p	-0.039296	0.0234	* n
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
FeMn	0	9:00-13:59	-2.877647	1.8257		0.0072657	0.0099		0.0174959	0.01101		0.0088771	0.0224		0.0207211	0.0238		-0.013269	0.0144	
		19:00-21:5	-5.066313	1.6419	**n	0.0152106	0.0093		0.0319362	0.01206	**p	0.034578	0.0188	* p	0.0551128	0.023	**p	-0.038023	0.017	**n
		22:00-0:59	-6.305958	1.7714	**n	0.0122114	0.0092		0.0385589	0.01204	**p	0.0270825	0.0186		0.0638362	0.023	**p	-0.064123	0.0176	**n
		1:00-3:59	-5.810529	1.6715	**n	0.0182441	0.0092	**p	0.0335874	0.01147	**p	0.0384803	0.0183	**p	0.060676	0.0215	**p	-0.042924	0.0157	**n
	1	9:00-13:59	-2.116909	1.8724		0.021405	0.0102	**p	0.0168605	0.01142		0.0305136	0.0231		0.0299617	0.0247		0.0049072	0.0147	
		19:00-21:5	-0.250631	1.7143		0.0113938	0.0097		0.0042484	0.01266		0.0213187	0.0197		0.0096144	0.0242		0.0106863	0.0175	
		22:00-0:59	-1.439487	1.8306		0.0105312	0.0095		0.0149014	0.01259		0.0177901	0.0194		0.0271108	0.024		-0.02386	0.018	
		1:00-3:59	-0.233772	1.7361		-0.006186	0.0096		-0.002452	0.012		-0.020897	0.0191		-0.014237	0.0225		-0.018098	0.016	
	2	9:00-13:59	-2.709913	1.805		0.023153	0.0098	**p	0.0197361	0.01086	* p	0.0307965	0.0221		0.0300735	0.0235		0.0003777	0.0142	
		19:00-21:5	-0.055064	1.6411		0.0057404	0.0093		-0.00917	0.01204		-0.008416	0.0188		-0.022324	0.023		0.0216805	0.017	
		22:00-0:59	0.396081	1.7747		-0.004653	0.0092		-0.012506	0.01203		-0.010737	0.0187		-0.016256	0.023		-0.000434	0.0177	
		1:00-3:59	-1.294063	1.6852		0.0198138	0.0093	**p	0.0122979	0.01157		0.0220441	0.0184		0.0241542	0.0217		-0.011408	0.0158	
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SOIL	0	9:00-13:59	-0.176371	2.1012		-0.032629	0.0114	**n	-0.009476	0.0128		-0.074965	0.0259	**n	-0.053288	0.0276	* n	-0.033823	0.0165	**n
		19:00-21:5	-2.427084	1.9368		-0.002099	0.011		0.011312	0.01431		0.0070223	0.0222		0.029162	0.0273		-0.023836	0.0198	
		22:00-0:59	-0.339605	2.0694		-0.00495	0.0107		-0.011934	0.01422		-0.020984	0.0219		-0.033301	0.0271		0.0313323	0.0204	
		1:00-3:59	0.389095	1.9663		-0.013249	0.0109		-0.008799	0.01359		-0.034111	0.0216		-0.026363	0.0254		0.0021879	0.0182	
	1	9:00-13:59	4.347119	2.1126	**p	-0.027882	0.0115	**n	-0.029039	0.01293	**n	-0.069723	0.0262	**n	-0.07471	0.0279	**n	0.0175916	0.0165	
		19:00-21:5	2.215022	2.0031		-0.012905	0.0113		-0.004477	0.01483		-0.021518	0.023		-0.007667	0.0283		-0.009673	0.0204	
		22:00-0:59	0.55942	2.1336		-0.016725	0.0111		-0.012742	0.01472		-0.05132	0.0227	**n	-0.043678	0.0281		0.0054722	0.021	
		1:00-3:59	1.348567	2.0261		-0.025249	0.0112	**n	-0.016789	0.01403		-0.056132	0.0223	**n	-0.042258	0.0263		-0.008712	0.0187	
	2	9:00-13:59	-0.847002	2.0711		-0.017635	0.0113		-0.005052	0.01258		-0.030628	0.0255		-0.01579	0.0272		-0.022542	0.0162	
		19:00-21:5	0.382652	1.8919		-0.021112	0.0107	**n	-0.009829	0.01392		-0.042979	0.0217	**n	-0.030315	0.0266		-0.013527	0.0195	
		22:00-0:59	-0.318772	2.0404		-0.006196	0.0106		-0.005576	0.01389		-0.019155	0.0215		-0.01862	0.0265		0.0028861	0.0203	
		1:00-3:59	0.950584	1.9271		-0.006	0.0107		-0.002338	0.01325		-0.02708	0.0211		-0.018963	0.0248		-0.006029	0.0181	
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
OIL	0	9:00-13:59	-5.509129	2.3626	**n	0.0249705	0.0128	* p	0.0317996	0.01419	**p	0.036483	0.0289		0.0454899	0.0306		-0.019148	0.0186	
		19:00-21:5	-10.8857	2.1411	**n	0.0183948	0.0121		0.0558424	0.01571	**p	0.0431668	0.0246	* p	0.0969465	0.03	**p	-0.102995	0.0222	**n
		22:00-0:59	-14.78246	2.3177	**n	0.0237704	0.012	**p	0.0848347	0.0157	**p	0.0472675	0.0243	* p	0.1374659	0.03	**p	-0.154399	0.0231	**n
		1:00-3:59	-15.80226	2.2302	**n	0.0411244	0.0123	**p	0.0775807	0.01527	**p	0.0814862	0.0244	**p	0.1306051	0.0286	**p	-0.100229	0.0211	**n
	1	9:00-13:59	-11.40034	2.4881	**n	0.032835	0.0135	**p	0.0509205	0.01504	**p	0.0574042	0.0306	* p	0.0872594	0.0325	**p	-0.060821	0.0195	**n
		19:00-21:5	-11.8548	2.285	**n	0.0385412	0.0129	**p	0.0801151	0.01681	**p	0.1012098	0.0262	**p	0.1522758	0.0321	**p	-0.105424	0.0235	**n
		22:00-0:59	-11.61152	2.4582	**n	0.0423909	0.0127	**p	0.0793948	0.01677	**p	0.0933599	0.0259	**p	0.1511106	0.032	**p	-0.118276	0.0244	**n
		1:00-3:59	-9.513647	2.3232	**n	0.0176729	0.0129		0.0570018	0.01598	**p	0.0444601	0.0255	* p	0.1013636	0.0299	**p	-0.106635	0.0217	**n
	2	9:00-13:59	-12.649	2.3671	**n	0.0605047	0.0128	**p	0.0789441	0.01417	**p	0.1250349	0.0289	**p	0.1527023	0.0306	**p	-0.069367	0.0187	**n
		19:00-21:5	-5.192213	2.1644	**n	0.0358818	0.0123	**p	0.0298299	0.01587	* p	0.0501117	0.0248	**p	0.0497984	0.0303		-0.01149	0.0224	
		22:00-0:59	-4.383448	2.3473	* n	0.0225186	0.0121	* p	0.0229198	0.0159		0.0504865	0.0247	**p	0.061855	0.0303	**p	-0.045515	0.0234	* n
		1:00-3:59	-4.747755	2.2133	**n	0.0569452	0.0122	**p	0.0477795	0.01516	**p	0.0971382	0.0242	**p	0.1001181	0.0284	**p	-0.0227	0.0209	
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
SULF	0	9:00-13:59	-4.155165	1.9708	**n	0.0247967	0.0107	**p	0.0248759	0.01188	**p	0.0073582	0.0242		0.0089084	0.0256		-0.003329	0.0155	
		19:00-21:5	-2.088239	1.8346		-0.002688	0.0104		0.002328	0.01347		-0.020076	0.021		-0.009477	0.0257		-0.021898	0.019	
		22:00-0:59	-3.639883	1.9839	* n	-0.000955	0.0103		0.011019	0.01348		-0.004235	0.0209		0.0093476	0.0257		-0.032491	0.0197	
		1:00-3:59	-5.838692	1.9344	**n	-0.003285	0.0107		0.0180117	0.01327		-0.019145	0.0212		0.0090934	0.0248		-0.057988	0.0182	**n
	1	9:00-13:59	-0.861122	2.2248		0.0153033	0.0121		0.0074317	0.01356		0.0060221	0.0275		0.0028264	0.0293		0.0075383	0.0174	
		19:00-21:5	0.913382	2.227		0.0048053	0.0126		0.0103681	0.01639		0.0106253	0.0256		0.0182845	0.0313		-0.016201	0.0229	
		22:00-0:59	2.747189	2.3948		0.0001948	0.0124		-0.018102	0.01634		-0.011369	0.0253		-0.034023	0.0312		0.0316434	0.0238	
		1:00-3:59	4.111638	2.2665	* p	-0.010197	0.0125		-0.001816	0.0156		-0.012034	0.0248		-0.005636	0.0292		-0.01628	0.0212	
	2	9:00-13:59	2.515666	2.2459		0.0254975	0.0122	**p	0.000539	0.01359		0.0338647	0.0276		0.0050574	0.0293		0.047018	0.0176	**p
		19:00-21:5	6.067712	2.0928	**p	-0.005677	0.0118		-0.038653	0.01541	**n	-0.025641	0.024		-0.072699	0.0294	**n	0.0675865	0.0215	**p
		22:00-0:59	6.93328	2.2563	**p	-0.005547	0.0117		-0.037124	0.01542	**n	0.0006791	0.0238		-0.042995	0.0294		0.0516041	0.0224	**p
		1:00-3:59	5.722256	2.1356	**p	0.0158598	0.0118		-0.010324	0.01471		0.0291741	0.0234		-0.002083	0.0275		0.0385996	0.0199	* p
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--

Appendix Table D.2 continued **Manhattan**.

Estimated coefficient and its standard error of multiple pollutants at lag 0-2 days for 6 outcomes and 4 time periods
The 9 sources were obtained from the factor analysis

				HR			LnSDNN			LnRMSSD			LnLF			LnHF			LF/HF	
Variable	Lag	TimePerioc	Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error	
FWK	0	9:00-13:59	1.697145	2.0495		0.0092421	0.0112		0.0011847	0.01252		0.0346224	0.0253		0.0316168	0.027		0.0057432	0.016	
		19:00-21:5	-2.421711	1.9189		-0.008091	0.0108		0.0040294	0.0142		-0.012915	0.0221		0.0036448	0.0271		-0.025753	0.0195	
		22:00-0:59	-1.705009	2.053		-0.007975	0.0107		0.0103139	0.01418		-0.009853	0.0218		0.0174334	0.027		-0.047459	0.0202	**n
		1:00-3:59	-2.336879	1.9535		-0.004714	0.0108		-0.000843	0.01353		-0.010453	0.0215		-0.002567	0.0253		-0.011206	0.018	
	1	9:00-13:59	-2.783129	2.1115		0.0057323	0.0115		0.0067245	0.01293		0.0160434	0.0262		0.0162064	0.0279		-0.006738	0.0165	
		19:00-21:5	-2.710106	1.9556		0.0046086	0.011		0.0200183	0.01448		0.0080091	0.0225		0.0294213	0.0276		-0.038076	0.0199	* n
		22:00-0:59	-4.187017	2.084	**n	0.0067783	0.0108		0.0166987	0.01441		0.0266014	0.0222		0.0485538	0.0275	* p	-0.041016	0.0205	**n
		1:00-3:59	-1.105988	1.9844		-0.002694	0.011		0.0088967	0.01376		-0.003379	0.0219		0.0220782	0.0257		-0.038312	0.0182	**n
	2	9:00-13:59	-7.545369	2.0378	**n	-0.000338	0.0111		0.0213283	0.0123	* p	0.0251159	0.025		0.0544313	0.0266	**p	-0.063198	0.016	**n
		19:00-21:5	-1.549368	1.9589		0.0043273	0.0111		0.0047316	0.01442		0.0066366	0.0225		0.0070269	0.0275		-0.00231	0.0202	
		22:00-0:59	-0.438451	2.1117		-0.007201	0.0109		-0.003085	0.01441		-0.004705	0.0223		0.0017326	0.0275		-0.024848	0.0209	
		1:00-3:59	-1.155744	2.0124		-0.004602	0.0111		0.0082284	0.01386		-0.006728	0.0221		0.0176233	0.0259		-0.042089	0.0188	**n
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
SALT	0	9:00-13:59	0.571794	2.7683		0.0098765	0.0151		0.0031275	0.01686		0.0299874	0.0342		0.0252054	0.0364		0.0056225	0.0217	
		19:00-21:5	-7.888284	2.5349	**n	0.0081818	0.0143		0.0437576	0.0187	**p	0.0318818	0.0291		0.0850125	0.0357	**p	-0.079605	0.026	**n
		22:00-0:59	-6.971504	2.7217	**n	0.019702	0.0141		0.0601429	0.01865	**p	0.0283154	0.0288		0.1018422	0.0356	**p	-0.090346	0.0269	**n
		1:00-3:59	-12.99849	2.5936	**n	0.0370343	0.0144	**p	0.0568005	0.01789	**p	0.0684529	0.0285	**p	0.104586	0.0335	**p	-0.047575	0.0241	**n
	1	9:00-13:59	-14.93101	2.9597	**n	0.0120866	0.0163		0.059651	0.0183	**p	0.0241561	0.0369		0.0836565	0.0394	**p	-0.118216	0.0231	**n
		19:00-21:5	-10.75698	2.7291	**n	0.0177296	0.0154		0.0581929	0.02027	**p	0.0507778	0.0314		0.1045015	0.0387	**p	-0.087829	0.0276	**n
		22:00-0:59	-10.22061	2.8914	**n	0.033663	0.0151	**p	0.0560153	0.02011	**p	0.0758521	0.0309	**p	0.1126288	0.0383	**p	-0.058318	0.0283	**n
		1:00-3:59	-6.578116	2.7563	**n	0.0333401	0.0153	**p	0.045055	0.01917	**p	0.0668282	0.0304	**p	0.0916708	0.0359	**p	-0.031345	0.025	
	2	9:00-13:59	-9.513143	2.6674	**n	-0.002559	0.0145		0.0277149	0.01617	* p	0.0253267	0.0328		0.0594532	0.0349	* p	-0.080529	0.0209	**n
		19:00-21:5	-10.75797	2.5152	**n	0.0388277	0.0142	**p	0.082701	0.01852	**p	0.0825786	0.0289	**p	0.1584658	0.0354	**p	-0.108725	0.0259	**n
		22:00-0:59	-8.010149	2.711	**n	0.0187062	0.014		0.0493433	0.0185	**p	0.0488308	0.0286	* p	0.0831566	0.0353	**p	-0.053968	0.0269	**n
		1:00-3:59	-9.241855	2.5705	**n	0.0214593	0.0142		0.046277	0.01769	**p	0.041601	0.0282		0.0791352	0.0331	**p	-0.046131	0.0241	* n
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
TRAF	0	9:00-13:59	-4.122617	2.3364	* n	0.0207177	0.0127		0.0160447	0.01414		0.0472657	0.0287		0.0423355	0.0305		-0.000755	0.0183	
		19:00-21:5	-7.155629	2.1214	**n	0.0064925	0.012		0.0297534	0.01558	* p	0.0218396	0.0243		0.0532917	0.0298	* p	-0.067208	0.0219	**n
		22:00-0:59	-4.86039	2.2907	**n	0.0203409	0.0119	* p	0.0412593	0.01557	**p	0.0485557	0.0241	**p	0.0830489	0.0297	**p	-0.064748	0.0228	**n
		1:00-3:59	-9.212963	2.1869	**n	0.0319818	0.0121	**p	0.044583	0.01501	**p	0.0687106	0.0239	**p	0.0872698	0.0281	**p	-0.044619	0.0206	**n
	1	9:00-13:59	-9.180379	2.6109	**n	0.0214289	0.0142		0.0428506	0.01593	**p	0.0579181	0.0323	* p	0.0825884	0.0344	**p	-0.055771	0.0204	**n
		19:00-21:5	-9.463284	2.3686	**n	0.0244202	0.0134	* p	0.0601964	0.01747	**p	0.0706943	0.0272	**p	0.1134219	0.0334	**p	-0.082088	0.0243	**n
		22:00-0:59	-6.962373	2.5407	**n	0.0299386	0.0132	**p	0.0448892	0.01742	**p	0.0843066	0.0269	**p	0.104129	0.0332	**p	-0.049926	0.0251	**n
		1:00-3:59	-5.088866	2.4113	**n	0.0312511	0.0134	**p	0.050758	0.01663	**p	0.0908328	0.0265	**p	0.1177415	0.0311	**p	-0.048424	0.0224	**n
	2	9:00-13:59	-7.110302	2.503	**n	0.0205852	0.0136		0.0432652	0.01512	**p	0.0832094	0.0307	**p	0.1075792	0.0326	**p	-0.060534	0.0197	**n
		19:00-21:5	-4.745122	2.3168	**n	0.0290351	0.0131	**p	0.0405112	0.017	**p	0.0650549	0.0266	**p	0.0851886	0.0325	**p	-0.036562	0.024	
		22:00-0:59	0.324166	2.5105		0.0070085	0.013		0.0020644	0.01701		0.0255297	0.0264		0.0163957	0.0325		0.0087695	0.025	
		1:00-3:59	-0.588119	2.3679		0.0025961	0.0131		0.006802	0.01623		0.0124754	0.0259		0.0203999	0.0304		-0.009373	0.0224	
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
SECOND.	0	9:00-13:59	-6.517743	2.4374	**n	0.024357	0.0132	* p	0.0261892	0.01478	* p	0.0545639	0.03	* p	0.0502623	0.0319		-0.013206	0.0191	
		19:00-21:5	-5.564097	2.455	**n	0.0233043	0.0139	* p	0.0248976	0.01812		0.0472184	0.0282	* p	0.0439748	0.0346		-0.028098	0.0251	
		22:00-0:59	-9.78948	2.6399	**n	0.0289875	0.0137	**p	0.0513237	0.01811	**p	0.0675249	0.0279	**p	0.0947811	0.0345	**p	-0.079258	0.0261	**n
		1:00-3:59	-8.294003	2.5004	**n	0.0373228	0.0139	**p	0.0491533	0.01726	**p	0.0698966	0.0275	**p	0.0777291	0.0323	**p	-0.054737	0.0232	**n
	1	9:00-13:59	-5.58437	2.4556	**n	0.0375333	0.0134	**p	0.0373505	0.01501	**p	0.0780306	0.0304	**p	0.0868914	0.0324	**p	-0.024298	0.0192	
		19:00-21:5	-6.617482	2.2631	**n	0.0377096	0.0128	**p	0.0419425	0.01672	**p	0.0920559	0.026	**p	0.0950729	0.0319	**p	-0.035011	0.0231	
		22:00-0:59	-5.08776	2.4206	**n	0.0306873	0.0126	**p	0.0432338	0.01663	**p	0.0802238	0.0256	**p	0.0925594	0.0317	**p	-0.054405	0.0239	**n
		1:00-3:59	-6.853619	2.2939	**n	0.0352074	0.0127	**p	0.0497711	0.01585	**p	0.082151	0.0252	**p	0.1034898	0.0297	**p	-0.055358	0.0213	**n
	2	9:00-13:59	-3.509372	2.3958		0.0424943	0.013	**p	0.0374996	0.01444	**p	0.0936157	0.0294	**p	0.088933	0.0312	**p	-0.004647	0.0188	
		19:00-21:5	-2.383708	2.2348		0.0160142	0.0127		0.003061	0.01644		0.0236085	0.0256		0.0005399	0.0314		0.0164859	0.023	
		22:00-0:59	-3.707872	2.4252		0.0297516	0.0126	**p	0.0214587	0.01652		0.0424766	0.0256	* p	0.0525491	0.0315	* p	-0.02864	0.0241	
		1:00-3:59	-3.32579	2.3016		0.0331484	0.0127	**p	0.0307356	0.01582	* p	0.0634895	0.0252	**p	0.0684755	0.0296	**p	-0.023986	0.0216	

Appendix Table D.3. Acute Effects of CAPs on Frequency Domain HRV by Pollutant at Tuxedo

Estimated coefficient and its standard error of single pollutant at lag 0-2 days for 6 outcomes and 4 time periods

				HR			LnSDNN			LnRMSSD			LnLF			LnHF			LF/HF	
Variable	Lag	TimePeriod	Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error	
CAPs	0	9:00-13:59	4.14E-02	0.011756	**p	-2.44E-04	0.000065	**n	-4.06E-04	0.000079	**n	-6.55E-04	0.000145	**n	-7.93E-04	0.000164	**n	2.99E-04	0.000097	**p
		19:00-21:59	3.28E-02	0.012375	**p	-1.70E-04	0.000065	**n	-1.89E-04	0.000068	**n	-3.98E-04	0.000121	**n	-4.07E-04	0.000131	**n	4.52E-05	0.000075	
		22:00-0:59	3.95E-02	0.011555	**p	-1.55E-04	0.000059	**n	-2.43E-04	0.00007	**n	-3.30E-04	0.000121	**n	-4.49E-04	0.00014	**n	2.71E-04	0.000088	**p
		1:00-3:59	6.45E-02	0.010852	**p	-1.94E-04	0.000055	**n	-2.94E-04	0.000065	**n	-4.31E-04	0.000116	**n	-5.47E-04	0.000133	**n	2.45E-04	0.000089	**p
	1	9:00-13:59	4.12E-02	0.011242	**p	-2.97E-04	0.000062	**n	-2.92E-04	0.000075	**n	-4.47E-04	0.000142	**n	-4.22E-04	0.000159	**n	-6.04E-05	0.000093	
		19:00-21:59	2.63E-02	0.0123	**p	-1.90E-04	0.000065	**n	-1.96E-04	0.000067	**n	-2.81E-04	0.00012	**n	-2.25E-04	0.00013	* n	-1.18E-04	0.000074	
		22:00-0:59	3.92E-03	0.011504		-8.91E-05	0.000059		-1.17E-04	0.00007	* n	-9.63E-05	0.000121		-1.14E-04	0.000139		4.64E-05	0.000088	
		1:00-3:59	1.61E-02	0.010776		-1.73E-04	0.000055	**n	-1.87E-04	0.000065	**n	-2.31E-04	0.000115	**n	-2.54E-04	0.000132	* n	4.46E-05	0.000088	
	2	9:00-13:59	-3.34E-03	0.011396		-1.81E-04	0.000063	**n	-1.45E-04	0.000076	* n	-1.73E-04	0.00014		-1.42E-04	0.000159		-2.20E-05	0.000094	
		19:00-21:59	1.72E-02	0.012374		-8.50E-05	0.000065		-1.37E-04	0.000068	**n	-2.14E-04	0.000121	* n	-2.73E-04	0.000131	**n	1.19E-04	0.000075	
		22:00-0:59	4.23E-03	0.01188		-1.01E-04	0.000061	* n	-1.29E-04	0.000072	* n	-2.34E-04	0.000124	* n	-2.33E-04	0.000144		3.64E-05	0.000091	
		1:00-3:59	-1.61E-02	0.011305		-2.58E-05	0.000057		-1.87E-05	0.000068		-2.93E-05	0.00012		-5.31E-05	0.000138		4.09E-05	0.000092	
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BC	0	9:00-13:59	2.87E-01	2.371851		-1.09E-02	0.013209		-4.37E-02	0.015875	**n	-5.47E-02	0.029298	* n	-8.41E-02	0.033093	**n	5.50E-02	0.019391	**p
		19:00-21:59	3.13E+00	2.57489		-2.04E-02	0.013452		-1.73E-02	0.014092		-3.67E-02	0.025109		-2.94E-02	0.027138		-1.45E-02	0.0154	
		22:00-0:59	3.52E+00	2.399496		-3.18E-02	0.012361	**n	-4.74E-02	0.014549	**n	-5.16E-02	0.025026	**n	-7.21E-02	0.02898	**n	3.20E-02	0.018277	* p
		1:00-3:59	1.10E+01	2.288441	**p	-3.27E-02	0.011563	**n	-3.84E-02	0.013801	**n	-5.81E-02	0.024187	**n	-7.15E-02	0.027834	**n	1.52E-02	0.018672	
	1	9:00-13:59	7.75E+00	2.356866	**p	-3.04E-02	0.013161	**n	-4.50E-02	0.015823	**n	-6.71E-02	0.029177	**n	-7.90E-02	0.033036	**n	2.30E-02	0.019435	
		19:00-21:59	2.25E+00	2.609277		-2.22E-02	0.013652		-2.22E-02	0.014317		-2.93E-02	0.025438		-2.54E-02	0.027513		-1.02E-02	0.015582	
		22:00-0:59	-1.46E+00	2.446912		-6.46E-03	0.012527		-1.29E-02	0.014859		1.10E-03	0.025374		5.62E-03	0.029519		-3.51E-03	0.018593	
		1:00-3:59	3.22E+00	2.290215		-3.60E-02	0.011524	**n	-3.80E-02	0.013862	**n	-4.84E-02	0.024165	**n	-5.10E-02	0.027922	* n	3.71E-03	0.018634	
	2	9:00-13:59	-3.50E+00	2.370487		-1.51E-02	0.013214		-1.27E-02	0.015837		9.51E-03	0.029315		1.17E-02	0.033058		-2.32E-03	0.01933	
		19:00-21:59	1.09E+00	2.610889		-9.22E-03	0.013625		-5.32E-03	0.014287		-1.85E-03	0.025478		-5.91E-04	0.027534		-1.21E-02	0.01563	
		22:00-0:59	1.24E+00	2.434812		1.25E-02	0.01248		2.52E-03	0.01473		3.90E-02	0.025392		2.94E-02	0.02938		1.33E-02	0.018534	
		1:00-3:59	7.47E-01	2.287057		7.97E-04	0.011538		1.19E-02	0.013763		2.81E-02	0.024164		4.00E-02	0.027793		-2.73E-02	0.018658	
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EC	0	9:00-13:59	-1.08E+01	5.10541	**n	8.70E-02	0.029398	**p	7.96E-02	0.035559	**p	5.56E-02	0.066063		5.79E-02	0.07453		-3.32E-03	0.043791	
		19:00-21:59	-1.15E+01	5.845561	**n	-2.73E-02	0.030687		2.01E-03	0.03226		-5.53E-02	0.057313		-1.28E-02	0.062026		-8.47E-02	0.035231	**n
		22:00-0:59	-8.43E+00	5.409265		-4.16E-02	0.028021		-4.81E-02	0.033298		-7.47E-02	0.057465		-7.00E-02	0.066611		-1.02E-02	0.041644	
		1:00-3:59	1.15E+01	5.160744	**p	-7.97E-02	0.025766	**n	-5.24E-02	0.031046	* n	-1.28E-01	0.054842	**n	-1.05E-01	0.063267	* n	-5.12E-02	0.04248	
	1	9:00-13:59	2.55E+00	5.091188		1.04E-02	0.0296		-1.93E-02	0.035498		-1.21E-03	0.067633		-3.40E-03	0.076253		5.07E-03	0.044875	
		19:00-21:59	1.94E+00	5.828449		-2.76E-02	0.030606		-3.22E-02	0.032198		-4.54E-03	0.056944		-1.46E-02	0.061655		7.57E-03	0.035034	
		22:00-0:59	6.09E+00	5.435014		7.39E-03	0.027981		-2.95E-02	0.033366		3.51E-02	0.057386		-3.40E-03	0.066687		7.18E-02	0.041708	* p
		1:00-3:59	7.57E+00	5.108803		-6.83E-02	0.025475	**n	-8.40E-02	0.030785	**n	-9.06E-02	0.054197	* n	-1.10E-01	0.062631	* n	3.20E-02	0.041988	
	2	9:00-13:59	-1.37E+01	4.852091	**n	1.33E-02	0.027924		-3.64E-03	0.033659		6.75E-02	0.062524		6.21E-02	0.070288		1.08E-02	0.041067	
		19:00-21:59	-3.51E+00	5.61073		-1.39E-02	0.029376		-2.26E-02	0.030897		-2.51E-02	0.055005		-3.30E-02	0.059501		5.37E-03	0.033785	
		22:00-0:59	8.97E+00	5.2227	* p	1.87E-03	0.027307		-3.31E-02	0.032409		-1.75E-02	0.055655		-4.93E-02	0.064362		5.82E-02	0.040226	
		1:00-3:59	1.37E+01	4.922899	**p	-4.85E-02	0.024595	**n	-4.82E-02	0.02957		-5.29E-02	0.052278		-5.27E-02	0.06023		-1.29E-02	0.040488	
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OC	0	9:00-13:59	-5.40E-01	0.806466		-1.18E-03	0.004644		-8.53E-03	0.005614		-1.78E-02	0.01046	* n	-2.40E-02	0.011819	**n	1.07E-02	0.006979	
		19:00-21:59	1.59E+00	0.876376	* p	-1.32E-02	0.004574	**n	-9.98E-03	0.00482	**n	-2.43E-02	0.008562	**n	-1.85E-02	0.00928	**n	-9.56E-03	0.005303	* n
		22:00-0:59	3.73E-01	0.814804		-7.90E-03	0.00426	* n	-1.33E-02	0.005061	**n	-1.73E-02	0.008716	**n	-2.31E-02	0.0101	**n	1.48E-02	0.006334	**p
		1:00-3:59	2.26E+00	0.78121	**p	-9.39E-03	0.003973	**n	-1.16E-02	0.004709	**n	-1.74E-02	0.008312	**n	-1.93E-02	0.00958	**n	3.80E-03	0.006442	
	1	9:00-13:59	2.41E+00	0.788206	**p	-1.79E-02	0.004578	**n	-1.97E-02	0.005467	**n	-2.39E-02	0.010549	**n	-2.39E-02	0.01186	**n	-1.58E-03	0.006973	
		19:00-21:59	2.89E+00	0.887793	**p	-1.68E-02	0.004646	**n	-1.99E-02	0.004891	**n	-3.08E-02	0.008675	**n	-3.22E-02	0.009405	**n	2.03E-03	0.005377	
		22:00-0:59	1.68E+00	0.827139	**p	-1.26E-02	0.004235	**n	-1.50E-02	0.005039	**n	-2.14E-02	0.008702	**n	-2.49E-02	0.010089	**n	6.72E-03	0.006329	
		1:00-3:59	2.13E+00	0.78197	**p	-1.12E-02	0.003893	**n	-1.22E-02	0.004701	**n	-1.64E-02	0.008307	**n	-1.91E-02	0.009589	**n	5.80E-03	0.00644	
	2	9:00-13:59	-8.11E-01	0.751556		-4.92E-03	0.004355		-7.60E-03	0.005208		-1.57E-02	0.009918		-1.87E-02	0.011181	* n	6.03E-03	0.006576	
		19:00-21:59	-4.21E-01	0.859864		4.21E-03	0.004492		4.38E-04	0.004728		3.16E-03	0.008406		1.97E-03	0.009106		2.49E-03	0.005201	
		22:00-0:59	-5.08E-01	0.799953		3.26E-03	0.004123		2.82E-03	0.004886		7.23E-03	0.008483		9.11E-03	0.009802		-2.92E-03	0.006144	
		1:00-3:59	-1.23E+00	0.759364		4.18E-03	0.003803		8.94E-03	0.004555	**p	1.06E-02	0.008096		1.53E-02	0.009311		-8.33E-03	0.006272	
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Al	0	9:00-13:59	9.79E-01	2.563561		-2.74E-02	0.014118	* n	-5.10E-02	0.017202	**n	-5.59E-02	0.031748	* n	-7.21E-02	0.036146	**n	3.10E-02	0.021323	
		19:00-21:59	5.71E+00	2.78277	**p	-2.87E-02	0.014659	* n	-3.26E-02	0.015271	**n	-6.12E-02	0.027197	**n	-6.08E-02	0.029378	**n	4.06E-03	0.01675	
		22:00-0:59	6.98E+00	2.610813	**p	-2.11E-02	0.013482		-3.29E-02	0.015902	**n	-4.39E-02	0.027308		-6.24E-02	0.031666	**n	4.30E-02	0.019933	**p
		1:00-3:59	1.12E+01	2.451674	**p	-2.79E-02	0.012371	**n	-4.58E-02	0.014707	**n	-5.56E-02	0.025972	**n	-7.06E-02	0.029865	**n	3.61E-02	0.019911	* p
	1	9:00-13:59	9.80E-01	2.574306		-4.32E-02	0.014216	**n	-2.34E-02	0.017091		-7.28E-02	0.031868	**n	-4.72E-02	0.035783		-5.52E-02	0.020763	**n
		19:00-21:59	5.23E+00	2.799261	* p	-3.35E-02	0.014768	**n	-3.79E-02	0.015311	**n	-6.42E-02	0.027316	**n	-5.84E-02	0.029466	**n	-7.39E-03	0.01681	
		22:00-0:59	-5.62E-01	2.620758		-2.88E-02	0.013551	**n	-3.42E-02	0.01587	**n	-5.05E-02	0.027527	* n	-5.64E-02	0.031688	* n	1.48E-02	0.019981	
		1:00-3:59	-1.70E+00	2.468987		-4.14E-02	0.012491	**n	-4.99E-02	0.014767	**n	-7.77E-02	0.026221	**n	-9.34E-02	0.029998	**n	3.05E-02	0.020112	
	2	9:00-13:59	-2.19E+00	2.520395		-2.41E-02	0.013886	* n	-2.17E-02	0.016824		-2.24E-02	0.030948		-2.43E-02	0.03503		7.45E-03	0.020486	
		19:00-21:59	2.89E+00	2.747224		-1.58E-02	0.01447		-3.42E-02	0.015052	**n	-5.86E-02	0.026872	**n	-7.67E-02	0.029009	**n	3.67E-02	0.016544	**p
		22:00-0:59	2.77E+00	2.57139		-8.96E-03	0.013241		-2.59E-02	0.015603	* n	-2.97E-02	0.026962		-3.83E-02	0.031154		2.40E-02	0.019629	
		1:00-3:59	-3.61E+00	2.446116		8.43E-03	0.012342		9.66E-04	0.014635		4.17E-03	0.025931		-5.89E-03	0.029735		2.17E-02	0.019885	
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Br	0	9:00-13:59	1.24E+02	57.394574	**p	-9.80E-01	0.316695	**n	-2.20E+00	0.381899	**n	-3.30E+00	0.702996	**n	-4.43E+00	0.795784	**n	2.49E+00	0.469334	**p
		19:00-21:59	9.24E+01	63.640751		-7.62E-01	0.335158	**n	-8.53E-01	0.349001	**n	-1.68E+00	0.623143	**n	-1.62E+00	0.673398	**n	5.52E-02	0.385046	
		22:00-0:59	1.74E+02	59.673347	**p	-6.33E-01	0.308151	**n	-1.16E+00	0.362993	**n	-1.35E+00	0.625753	**n	-2.05E+00	0.724265	**n	1.52E+00	0.456181	**p
		1:00-3:59	2.52E+02	56.187605	**p	-5.83E-01	0.284345	**n	-1.26E+00	0.337774	**n	-1.63E+00	0.594788	**n	-2.18E+00	0.683749	**n	1.17E+00	0.456168	**p
	1	9:00-13:59	1.62E+02	57.285555	**p	-1.25E+00	0.31646	**n	-1.35E+00	0.380372	**n	-2.10E+00	0.705885	**n	-2.18E+00	0.795199	**n	2.03E-01	0.467517	
		19:00-21:59	2.11E+02	62.988354	**p	-1.23E+00	0.331658	**n	-1.35E+00	0.345428	**n	-2.14E+00	0.616217	**n	-2.08E+00	0.665912	**n	-1.82E-01	0.380769	
		22:00-0:59	1.18E+02	59.175715	**p	-7.12E-01	0.305774	**n	-1.03E+00	0.359141	**n	-1.20E+00	0.618331	* n	-1.50E+00	0.715417	**n	5.90E-01	0.450582	
		1:00-3:59	9.21E+01	55.734369	* p	-1.17E+00	0.280415	**n	-1.19E+00	0.3347	**n	-1.65E+00	0.589894	**n	-1.84E+00	0.678535	**n	3.98E-01	0.452414	
	2	9:00-13:59	-4.48E+01	56.94232		-5.25E-01	0.315302	* n	-7.55E-01	0.378299	**n	-6.17E-02	0.700477		-2.39E-01	0.791636		6.38E-01	0.465596	
		19:00-21:59	1.84E+02	62.994156	**p	-8.19E-01	0.331507	**n	-1.08E+00	0.34552	**n	-1.58E+00	0.61402	**n	-1.84E+00	0.663513	**n	3.55E-01	0.379389	
		22:00-0:59	7.13E+01	59.710263		-5.56E-01	0.30794	* n	-9.97E-01	0.361809	**n	-1.50E+00	0.622884	**n	-1.77E+00	0.720583	**n	5.50E-01	0.453916	
		1:00-3:59	1.84E+01	55.894967		-1.36E-01	0.281653		-2.63E-01	0.335826		-7.30E-01	0.590621		-9.14E-01	0.678932		3.53E-01	0.452973	
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Appendix Table D.3 continued **Tuxedo**.

Estimated coefficient and its standard error of single pollutant at lag 0-2 days for 6 outcomes and 4 time periods

				HR			LnSDNN			LnRMSSD			LnLF			LnHF			LF/HF	
Variable	Lag	TimePeriod	Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error	
Ca	0	9:00-13:59	8.47E+00	8.662106		-1.02E-01	0.047687	**n	-2.26E-01	0.057861	**n	-2.79E-01	0.105248	**n	-4.13E-01	0.119464	**n	2.59E-01	0.070595	**p
		19:00-21:59	1.00E+01	9.290678		-8.67E-02	0.049157	* n	-9.20E-02	0.051013	* n	-1.68E-01	0.090984	* n	-1.58E-01	0.098272		5.55E-04	0.056018	
		22:00-0:59	1.42E+01	8.723892		-5.33E-02	0.045138		-1.04E-01	0.053173	* n	-1.00E-01	0.091164		-1.91E-01	0.105702	* n	1.81E-01	0.066322	**p
		1:00-3:59	2.48E+01	8.889308	**p	-7.09E-02	0.04467		-1.59E-01	0.053278	**n	-1.90E-01	0.093773	**n	-2.88E-01	0.107871	**n	2.05E-01	0.071682	**p
	1	9:00-13:59	2.08E+01	9.101474	**p	-1.80E-01	0.050511	**n	-2.14E-01	0.060485	**n	-3.28E-01	0.114673	**n	-3.42E-01	0.129124	**n	3.29E-02	0.075728	
		19:00-21:59	1.33E+01	9.93254		-1.30E-01	0.052636	**n	-1.32E-01	0.054415	**n	-2.70E-01	0.097214	**n	-2.42E-01	0.104919	**n	-3.79E-02	0.0598	
		22:00-0:59	3.21E-02	9.28683		-9.11E-02	0.048059	* n	-7.04E-02	0.056538		-1.41E-01	0.09763		-9.39E-02	0.112719		-8.17E-02	0.070762	
		1:00-3:59	1.74E+00	8.816748		-1.18E-01	0.04445	**n	-1.16E-01	0.052776	**n	-2.09E-01	0.093162	**n	-2.27E-01	0.106834	**n	4.11E-02	0.071241	
	2	9:00-13:59	-4.88E-01	8.988013		-1.14E-01	0.049511	**n	-9.23E-02	0.05994		-1.52E-01	0.110009		-1.19E-01	0.124621		-5.89E-03	0.073359	
		19:00-21:59	3.45E+01	9.895854	**p	-8.72E-02	0.052388	* n	-1.67E-01	0.054369	**n	-1.96E-01	0.096983	**n	-2.83E-01	0.104732	**n	1.40E-01	0.059699	**p
		22:00-0:59	2.12E+01	9.320824	**p	-4.69E-02	0.048085		-1.42E-01	0.056765	**n	-1.56E-01	0.097736		-2.46E-01	0.113142	**n	1.99E-01	0.071008	**p
		1:00-3:59	4.72E+00	8.807146		8.61E-03	0.044412		-5.97E-02	0.0527		-6.88E-02	0.093007		-1.24E-01	0.106743		1.21E-01	0.071113	* p
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Cr	0	9:00-13:59	2.14E+02	52.208543	**p	-2.03E-01	0.29094		-2.20E-02	0.351303		1.49E-02	0.650681		-1.30E-01	0.732769		2.43E-02	0.425439	
		19:00-21:59	1.22E+02	57.794386	**p	-9.87E-01	0.303981	**n	-7.13E-01	0.317382	**n	-1.64E+00	0.566167	**n	-1.43E+00	0.611294	**n	-4.66E-01	0.347755	
		22:00-0:59	-4.90E+01	53.866851		-2.30E-01	0.284269		-1.66E-01	0.334278		-6.29E-01	0.567265		-7.25E-01	0.654882		4.50E-03	0.411672	
		1:00-3:59	-5.62E+01	51.020808		2.52E-01	0.26271		3.82E-02	0.312507		-4.81E-02	0.542566		-1.68E-01	0.62296		2.94E-01	0.415098	
	1	9:00-13:59	2.94E+01	61.269098		1.09E-01	0.340825		-3.71E-01	0.417212		-2.60E-01	0.75104		-4.72E-01	0.85481		2.08E-01	0.504321	
		19:00-21:59	9.17E+01	60.27594		-2.88E-01	0.318782		1.24E-01	0.333273		1.20E-01	0.5909		4.01E-01	0.638566		-6.28E-01	0.361502	* n
		22:00-0:59	2.78E+01	56.622594		-2.81E-01	0.290314		-2.40E-01	0.346137		-3.39E-02	0.590225		-1.18E-01	0.687911		8.93E-02	0.430883	
		1:00-3:59	1.93E+02	53.304448	**p	-5.03E-01	0.267665	* n	-7.01E-01	0.322973	**n	-5.05E-01	0.565014		-8.23E-01	0.653658		3.91E-01	0.431765	
	2	9:00-13:59	1.91E+02	53.450772	**p	-6.81E-01	0.309535	**n	-3.88E-01	0.36072		-4.52E-02	0.736643		4.17E-01	0.833574		-1.04E+00	0.487415	**n
		19:00-21:59	-8.24E+01	57.712862		-1.52E-01	0.303599		1.92E-01	0.317258		3.05E-01	0.564701		8.53E-01	0.609713		-1.03E+00	0.346847	**n
		22:00-0:59	-1.95E+02	53.936316	**n	1.13E-01	0.278905		6.94E-01	0.328599	**p	6.71E-01	0.56754		1.39E+00	0.655356	**p	-1.34E+00	0.411934	**n
		1:00-3:59	3.20E+01	51.169378		-1.42E-01	0.258717		-2.13E-01	0.307777		1.18E-01	0.544076		4.06E-02	0.624766		6.13E-02	0.416245	
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Cu	0	9:00-13:59	3.38E+01	63.825546		-5.84E-01	0.352585	* n	-1.14E+00	0.426487	**n	-1.19E+00	0.783541		-1.72E+00	0.887508	* n	9.81E-01	0.521994	* p
		19:00-21:59	-9.80E+01	70.348177		-1.62E-01	0.370909		-2.43E-01	0.387058		-3.73E-01	0.690054		-4.96E-01	0.745098		3.23E-01	0.422503	
		22:00-0:59	1.60E+02	65.755555	**p	-4.99E-01	0.340729		-8.08E-01	0.402158	**n	-9.34E-01	0.691307		-1.34E+00	0.800381	* n	9.90E-01	0.502972	**p
		1:00-3:59	3.28E+02	63.557939	**p	-1.27E+00	0.323101	**n	-1.77E+00	0.38345	**n	-2.64E+00	0.675982	**n	-3.17E+00	0.776841	**n	9.95E-01	0.518825	* p
	1	9:00-13:59	6.46E+01	68.230092		-8.45E-01	0.37842	**n	-1.30E+00	0.460185	**n	-1.93E+00	0.839668	**n	-2.29E+00	0.958113	**n	5.94E-01	0.570078	
		19:00-21:59	-5.05E+01	75.22016		-2.21E-01	0.398216		-6.28E-01	0.415736		-9.01E-01	0.737304		-1.22E+00	0.796946		6.94E-01	0.450275	
		22:00-0:59	6.15E+01	70.845872		-3.28E-01	0.362874		-4.40E-01	0.433654		-3.48E-01	0.735803		-4.99E-01	0.859698		4.11E-01	0.538783	
		1:00-3:59	-5.96E+01	66.540355		-6.33E-01	0.334455	* n	-7.43E-01	0.404385	* n	-8.05E-01	0.703674		-1.01E+00	0.815385		3.97E-01	0.539696	
	2	9:00-13:59	1.07E+02	63.992715	* p	-1.04E+00	0.353737	**n	-1.58E+00	0.426463	**n	-1.82E+00	0.793055	**n	-2.84E+00	0.895542	**n	1.74E+00	0.524338	**p
		19:00-21:59	8.91E+01	69.72123		1.57E-01	0.367141		-4.43E-01	0.383376		4.27E-01	0.683517		-2.81E-01	0.737916		1.19E+00	0.418672	**p
		22:00-0:59	1.32E+02	65.18869	**p	-2.19E-01	0.336353		-7.45E-01	0.396533	* n	-1.05E-01	0.684918		-5.90E-01	0.79168		9.46E-01	0.497751	* p
		1:00-3:59	3.99E+01	61.425267		-1.74E-01	0.31122		-4.75E-01	0.369722		-7.33E-02	0.65366		-3.64E-01	0.75078		6.14E-01	0.501714	
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Fe	0	9:00-13:59	1.13E+01	3.355258	**p	-6.16E-02	0.01855	**n	-1.01E-01	0.022479	**n	-1.31E-01	0.041357	**n	-1.82E-01	0.046902	**n	9.41E-02	0.027689	**p
		19:00-21:59	3.53E+00	3.66783		-3.63E-02	0.019245	* n	-4.22E-02	0.020119	**n	-8.82E-02	0.035856	**n	-8.47E-02	0.038749	**n	4.94E-03	0.022068	
		22:00-0:59	4.28E+00	3.434991		-3.21E-02	0.017668	* n	-4.65E-02	0.020861	**n	-6.52E-02	0.035914	* n	-8.99E-02	0.041607	**n	4.54E-02	0.026189	* p
		1:00-3:59	1.11E+01	3.338375	**p	-2.96E-02	0.016769	* n	-5.40E-02	0.019958	**n	-9.00E-02	0.035229	**n	-1.16E-01	0.040491	**n	5.54E-02	0.027028	**p
	1	9:00-13:59	5.17E+00	3.36323		-3.96E-02	0.018716	**n	-6.27E-02	0.022495	**n	-1.06E-01	0.041976	**n	-1.11E-01	0.047459	**n	1.29E-02	0.027977	
		19:00-21:59	7.18E+00	3.723667	* p	-6.17E-02	0.019611	**n	-5.66E-02	0.020434	**n	-1.05E-01	0.036407	**n	-9.46E-02	0.039336	**n	-2.18E-02	0.022404	
		22:00-0:59	1.20E+00	3.488422		-4.01E-02	0.017992	**n	-4.84E-02	0.02117	**n	-6.45E-02	0.036491	* n	-6.09E-02	0.042236		-7.37E-05	0.026588	
		1:00-3:59	2.60E+00	3.295146		-6.17E-02	0.016576	**n	-6.46E-02	0.019777	**n	-1.07E-01	0.03477	**n	-1.21E-01	0.039978	**n	2.98E-02	0.026676	
	2	9:00-13:59	-7.74E-01	3.391296		-5.72E-02	0.018733	**n	-5.54E-02	0.022677	**n	-5.88E-02	0.041611		-5.69E-02	0.047122		9.18E-03	0.027754	
		19:00-21:59	6.64E+00	3.8193	* p	-1.39E-02	0.020065		-4.01E-02	0.020942	* n	-4.57E-02	0.037349		-6.70E-02	0.040355	* n	3.62E-02	0.022985	
		22:00-0:59	4.12E+00	3.592582		1.05E-05	0.018417		-2.28E-02	0.021789		-2.24E-02	0.037554		-3.82E-02	0.043471		4.51E-02	0.027368	* p
		1:00-3:59	9.43E-01	3.400931		-2.24E-03	0.017065		-1.23E-02	0.020328		-1.56E-02	0.035876		-2.66E-02	0.041234		2.94E-02	0.027524	
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K	0	9:00-13:59	-1.68E+00	3.933115		-3.38E-02	0.02172		-6.02E-02	0.026328	**n	-1.09E-01	0.04812	**n	-1.37E-01	0.054465	**n	6.41E-02	0.032061	**p
		19:00-21:59	1.18E+01	4.3662	**p	-2.27E-02	0.023049		-4.75E-02	0.023973	**n	-2.89E-02	0.042809		-5.01E-02	0.046198		4.26E-02	0.026233	
		22:00-0:59	1.64E+01	4.061529	**p	-2.87E-02	0.021019		-5.70E-02	0.024804	**n	-3.16E-02	0.042653		-6.41E-02	0.049409		6.51E-02	0.031127	**p
		1:00-3:59	2.15E+01	3.835395	**p	-6.81E-02	0.019426	**n	-1.14E-01	0.023088	**n	-1.33E-01	0.040842	**n	-1.75E-01	0.046921	**n	8.17E-02	0.031283	**p
	1	9:00-13:59	-3.71E-01	4.092787		-1.21E-02	0.02258		-7.00E-03	0.027508		1.21E-02	0.05013		3.61E-02	0.056893		-4.22E-02	0.033731	
		19:00-21:59	6.72E+00	4.378152		-3.48E-02	0.02314		-6.23E-02	0.024116	**n	-1.01E-01	0.042982	**n	-1.08E-01	0.046411	**n	2.45E-02	0.026343	
		22:00-0:59	1.25E+01	4.086162	**p	-4.28E-02	0.020988	**n	-6.24E-02	0.024952	**n	-1.02E-01	0.042678	**n	-1.13E-01	0.049645	**n	4.31E-02	0.031261	
		1:00-3:59	4.37E+00	3.844964		-3.27E-02	0.019382	* n	-3.70E-02	0.023223		-4.64E-02	0.040862		-4.94E-02	0.047112		1.53E-02	0.031285	
	2	9:00-13:59	1.68E+01	3.953789	**p	-1.16E-01	0.021864	**n	-1.42E-01	0.026429	**n	-1.66E-01	0.049132	**n	-2.08E-01	0.055562	**n	8.74E-02	0.032657	**p
		19:00-21:59	5.77E+00	4.38692		-8.15E-03	0.023126		-4.29E-02	0.024103	* n	-4.78E-02	0.043043		-8.08E-02	0.046447	* n	6.81E-02	0.026377	**p
		22:00-0:59	1.06E+01	4.089172	**p	-6.21E-02	0.02105	**n	-8.82E-02	0.024912	**n	-1.26E-01	0.042954	**n	-1.57E-01	0.049721	**n	7.15E-02	0.031326	**p
		1:00-3:59	1.34E+01	3.851849	**p	-5.32E-02	0.019494	**n	-7.30E-02	0.023167	**n	-1.00E-01	0.041005	**n	-1.35E-01	0.047081	**n	7.22E-02	0.03141	**p
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Mg	0	9:00-13:59	1.68E+01	5.742082	**p	-7.30E-02	0.031867	**n	-1.44E-01	0.038539	**n	-8.20E-02	0.071259		-1.43E-01	0.080776	* n	1.12E-01	0.047427	**p
		19:00-21:59	1.33E+00	6.27977		-4.99E-02	0.03301		-4.05E-02	0.034554		-5.39E-02	0.061652		-4.51E-02	0.066626		-9.16E-03	0.037899	
		22:00-0:59	-4.44E+00	5.690248		-2.84E-02	0.030279		-1.87E-02	0.035834		-5.45E-02	0.061539		-4.81E-02	0.07143		-1.22E-02	0.044908	
		1:00-3:59	8.50E+00	5.555406		-3.27E-02	0.028027		-7.45E-02	0.033482	**n	-1.15E-01	0.058857	* n	-1.42E-01	0.06783	**n	6.08E-02	0.045042	
	1	9:00-13:59	4.46E-01	5.945147		-3.03E-02	0.032912		-1.56E-02	0.040415		7.54E-03	0.071828		2.79E-02	0.082265		-4.84E-02	0.049061	
		19:00-21:59	1.85E+01	6.510012	**p	-1.21E-01	0.034341	**n	-1.02E-01	0.036011	**n	-1.72E-01	0.063879	**n	-1.66E-01	0.069139	**n	-2.22E-02	0.039209	
		22:00-0:59	1.63E+00	6.147641		-3.00E-02	0.031596		-7.05E-02	0.037658	* n	-4.55E-02	0.063521		-6.77E-02	0.074384		4.42E-02	0.046655	
		1:00-3:59	-1.06E+01	5.773203	* n	-1.43E-02	0.029036		-4.08E-03	0.035206		7.96E-03	0.060963		-2.96E-03	0.070749		1.16E-02	0.046598	
	2	9:00-13:59	8.12E+00	5.663096		-3.54E-03	0.03146		-1.92E-02	0.038036		5.02E-02	0.069781		3.76E-02	0.079085		1.97E-02	0.046426	
		19:00-21:59	3.81E+00	6.197043		-3.28E-02	0.032587		-3.41E-02	0.034093		-5.36E-03	0.06087		-3.06E-03	0.065752		-1.64E-02	0.037433	
		22:00-0:59	3.80E+00	5.810209		8.86E-03	0.030004		-3.03E-02	0.035261		1.31E-02	0.060865		-4.75E-03	0.070449		4.41E-02	0.044324	
		1:00-3:59	1.18E+01	5.532766	**p	-4.48E-02	0.027903		-4.87E-02	0.033269		-6.13E-03	0.058656		-1.52E-02	0.067477		1.63E-02	0.044901	
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Appendix Table D.3 continued **Tuxedo**.

Estimated coefficient and its standard error of single pollutant at lag 0-2 days for 6 outcomes and 4 time periods

				HR			LnSDNN			LnRMSSD			LnLF			LnHF			LF/HF	
Variable	Lag	TimePeriod	Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error	
Mn	0	9:00-13:59	1.74E+02	106.709923		-1.22E+00	0.590735	**n	-2.54E+00	0.713438	**n	-2.63E+00	1.318379	**n	-4.17E+00	1.493397	**n	2.88E+00	0.878791	**p
		19:00-21:59	7.32E+01	113.908062		-3.39E-01	0.599581		-5.97E-01	0.624838		-1.52E+00	1.115792		-1.74E+00	1.204095		8.87E-01	0.684772	
		22:00-0:59	1.97E+02	106.399586	* p	-5.00E-01	0.54745		-1.46E+00	0.645848	**n	-1.50E+00	1.115759		-2.61E+00	1.289339	**n	2.27E+00	0.810298	**p
		1:00-3:59	4.12E+02	103.857363	**p	-1.36E+00	0.525295	**n	-2.12E+00	0.622852	**n	-3.75E+00	1.102017	**n	-4.54E+00	1.26517	**n	1.72E+00	0.844665	**p
	1	9:00-13:59	4.66E+02	104.002054	**p	-2.40E+00	0.586076	**n	-3.50E+00	0.698813	**n	-4.41E+00	1.347856	**n	-4.92E+00	1.534626	**n	1.31E+00	0.911539	
		19:00-21:59	1.00E+02	118.652008		-1.09E+00	0.627015	* n	-1.48E+00	0.652423	**n	-1.64E+00	1.162879		-1.87E+00	1.256017		5.05E-01	0.713115	
		22:00-0:59	4.95E+01	111.219043		-9.43E-01	0.571765	* n	-9.25E-01	0.678617		-8.13E-01	1.160124		-8.11E-01	1.349319		5.90E-02	0.846228	
		1:00-3:59	2.95E+02	104.877653	**p	-7.68E-01	0.530873		-1.37E+00	0.637685	**n	-1.63E+00	1.110708		-2.52E+00	1.282496	* n	1.54E+00	0.850549	* p
	2	9:00-13:59	1.82E+02	101.509709	* p	-2.40E+00	0.560691	**n	-2.62E+00	0.678154	**n	-3.68E+00	1.246732	**n	-4.16E+00	1.410654	**n	1.25E+00	0.828676	
		19:00-21:59	1.28E+02	117.220826		-5.16E-01	0.615958		-1.27E+00	0.642759	**n	-1.15E+00	1.147856		-1.67E+00	1.238754		7.45E-01	0.70442	
		22:00-0:59	-1.33E+01	109.667504		-4.23E-01	0.564191		-4.50E-01	0.666953		-7.55E-01	1.150315		-3.47E-02	1.330048		-7.84E-01	0.835738	
		1:00-3:59	-1.45E+02	103.674809		-7.74E-01	0.524186		-5.99E-01	0.622242		-1.43E+00	1.099691		-1.08E+00	1.263387		-3.25E-01	0.842784	
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Na	0	9:00-13:59	5.13E+00	2.112869	**p	-1.82E-02	0.011715		-3.60E-02	0.014217	**n	-4.73E-02	0.026021	* n	-6.58E-02	0.029504	**n	3.31E-02	0.017364	* p
		19:00-21:59	7.18E+00	2.362704	**p	-2.93E-02	0.012569	**n	-3.25E-02	0.013032	**n	-2.66E-02	0.023224		-3.31E-02	0.025111		1.37E-02	0.014225	
		22:00-0:59	8.48E+00	2.214216	**p	-1.38E-02	0.011466		-4.02E-02	0.013732	**n	-2.72E-02	0.023264		-5.33E-02	0.027207	* n	5.41E-02	0.017032	**p
		1:00-3:59	8.90E+00	2.087258	**p	-1.39E-02	0.010606		-4.19E-02	0.01277	**n	-2.57E-02	0.022138		-4.15E-02	0.025665		3.34E-02	0.016909	**p
	1	9:00-13:59	2.70E+00	2.027707		-1.11E-02	0.011251		-1.07E-02	0.013742		2.15E-03	0.024897		8.32E-03	0.028323		-1.08E-02	0.016791	
		19:00-21:59	2.82E-01	2.345271		-1.84E-02	0.012435		-2.98E-02	0.012927	**n	-2.41E-02	0.023036		-2.67E-02	0.024893		1.06E-02	0.014119	
		22:00-0:59	3.45E+00	2.200563		-1.12E-02	0.011506		-1.49E-02	0.013723		-1.24E-02	0.023397		-1.31E-02	0.027264		5.92E-03	0.017079	
		1:00-3:59	4.74E+00	2.068807	**p	-2.37E-02	0.01063	**n	-3.42E-02	0.012582	**n	-2.62E-02	0.021963		-2.64E-02	0.02539		4.88E-03	0.016782	
	2	9:00-13:59	-1.35E+00	2.010208		-1.82E-02	0.01116		-1.90E-02	0.013526		-3.22E-02	0.024718		-3.04E-02	0.028027		4.44E-04	0.016499	
		19:00-21:59	-1.16E+00	2.320323		-9.12E-03	0.012184		-4.16E-03	0.012763		-8.61E-04	0.022738		-2.05E-03	0.024545		-1.53E-03	0.013953	
		22:00-0:59	3.53E+00	2.184505		-1.79E-02	0.011313		-2.28E-02	0.013377	* n	-1.01E-02	0.02303		-1.83E-02	0.026655		2.53E-02	0.016726	
		1:00-3:59	3.73E+00	2.051227	* p	-1.41E-02	0.01043		-2.07E-02	0.012297	* n	7.24E-03	0.021803		8.52E-03	0.025064		8.44E-03	0.016669	
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Ni	0	9:00-13:59	3.08E+02	71.924364	**p	-1.11E+00	0.397994	**n	-1.24E+00	0.484893	**n	-1.55E+00	0.879384	* n	-2.16E+00	0.992704	**n	6.87E-01	0.581794	
		19:00-21:59	5.15E+01	80.124644		-1.24E+00	0.421094	**n	-1.07E+00	0.4406	**n	-2.51E+00	0.784361	**n	-2.31E+00	0.847725	**n	-3.57E-01	0.483064	
		22:00-0:59	-3.12E+01	75.013976		-1.50E-01	0.390773		-4.76E-02	0.462513		-5.08E-01	0.784239		-7.41E-01	0.908632		7.93E-02	0.572048	
		1:00-3:59	5.74E+01	79.934768		-1.49E-01	0.407737		-5.61E-01	0.48709		-1.30E+00	0.843507		-1.71E+00	0.970437	* n	8.40E-01	0.645513	
	1	9:00-13:59	2.30E+02	93.593767	**p	-7.05E-01	0.520308		-1.40E+00	0.634293	**n	-2.54E+00	1.147255	**n	-2.95E+00	1.30545	**n	5.36E-01	0.772785	
		19:00-21:59	1.33E+02	92.199585		-5.98E-01	0.486151		-3.17E-01	0.509247		-2.70E-01	0.903693		-1.04E-01	0.977338		-5.60E-01	0.555368	
		22:00-0:59	4.72E+01	86.758666		-3.21E-01	0.442363		-5.39E-01	0.527786		2.62E-01	0.901095		-4.55E-02	1.050379		3.05E-01	0.660052	
		1:00-3:59	1.30E+02	84.55566		-1.15E+00	0.421438	**n	-1.18E+00	0.510807	**n	-1.55E+00	0.890566	* n	-1.96E+00	1.032567	* n	2.94E-01	0.680795	
	2	9:00-13:59	6.83E+01	82.099532		-6.51E-01	0.474715		-5.81E-01	0.551434		3.61E-01	1.129052		8.77E-01	1.275294		-1.04E+00	0.747594	
		19:00-21:59	-1.89E+02	88.176942	**n	5.34E-01	0.462941		5.10E-01	0.484546		1.06E+00	0.863449		1.26E+00	0.932886		-2.05E-01	0.532342	
		22:00-0:59	-1.48E+02	82.817523	* n	7.72E-01	0.425843	* p	1.07E+00	0.502106	**p	1.65E+00	0.868282	* p	2.18E+00	1.003124	**p	-1.06E+00	0.632122	* n
		1:00-3:59	1.14E+02	80.444074		6.38E-02	0.403191		-2.85E-01	0.481801		-7.30E-02	0.848998		-5.43E-01	0.976718		8.04E-01	0.649718	
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P	0	9:00-13:59	2.32E+01	5.125333	**p	-1.19E-01	0.02833	**n	-1.77E-01	0.034306	**n	-2.52E-01	0.063666	**n	-3.02E-01	0.072224	**n	1.20E-01	0.042676	**p
		19:00-21:59	1.07E+01	5.586184	* p	-6.46E-02	0.029434	**n	-8.78E-02	0.030654	**n	-1.39E-01	0.054752	**n	-1.61E-01	0.059134	**n	4.87E-02	0.033744	
		22:00-0:59	1.50E+01	5.229053	**p	-5.38E-02	0.026967	**n	-9.08E-02	0.031676	**n	-9.99E-02	0.054703	* n	-1.46E-01	0.063295	**n	9.77E-02	0.039971	**p
		1:00-3:59	1.30E+01	4.997994	**p	-4.54E-02	0.025117	* n	-7.55E-02	0.029902	**n	-1.02E-01	0.052713	* n	-1.37E-01	0.060592	**n	7.35E-02	0.040458	* p
	1	9:00-13:59	3.17E+00	5.08825		-6.33E-02	0.02818	**n	-6.90E-02	0.033956	**n	-1.66E-01	0.062964	**n	-1.79E-01	0.070951	**n	3.00E-02	0.041657	
		19:00-21:59	2.20E+01	5.580146	**p	-1.08E-01	0.029305	**n	-1.11E-01	0.030591	**n	-1.79E-01	0.05465	**n	-1.61E-01	0.058996	**n	-3.57E-02	0.033662	
		22:00-0:59	9.15E+00	5.213991	* p	-6.74E-02	0.027124	**n	-9.38E-02	0.03158	**n	-1.36E-01	0.054656	**n	-1.43E-01	0.063057	**n	1.50E-02	0.039835	
		1:00-3:59	6.45E+00	4.94762		-7.36E-02	0.0249	**n	-8.72E-02	0.029521	**n	-1.36E-01	0.052241	**n	-1.48E-01	0.05994	**n	3.73E-02	0.040095	
	2	9:00-13:59	5.64E+00	5.166023		-8.65E-02	0.02856	**n	-9.66E-02	0.034582	**n	-5.55E-02	0.063508		-5.03E-02	0.072003		1.87E-02	0.042513	
		19:00-21:59	4.11E+00	5.686481		-4.23E-02	0.029935		-5.97E-02	0.031214	* n	-1.19E-01	0.055571	**n	-1.35E-01	0.060034	**n	3.42E-02	0.034259	
		22:00-0:59	4.28E+00	5.561657		-6.36E-02	0.028634	**n	-1.01E-01	0.033734	**n	-1.88E-01	0.0579	**n	-2.10E-01	0.067127	**n	6.99E-02	0.042378	* p
		1:00-3:59	5.51E+00	5.238153		-5.51E-02	0.026313	**n	-5.50E-02	0.031444	* n	-1.26E-01	0.055182	**n	-1.33E-01	0.063527	**n	1.75E-02	0.042353	
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Pb	0	9:00-13:59	-7.28E+01	37.61224	* n	3.79E-01	0.208219	* p	2.13E-01	0.252356		3.92E-01	0.46286		2.42E-01	0.524488		2.43E-01	0.309191	
		19:00-21:59	-4.03E+01	41.993599		-1.18E-02	0.221694		-1.10E-01	0.231171		-1.32E-01	0.411545		-1.17E-01	0.444489		-3.41E-02	0.252342	
		22:00-0:59	2.05E+01	39.328921		-4.95E-02	0.203053		-1.15E-01	0.239736		-2.43E-01	0.410966		-3.50E-01	0.476833		2.53E-01	0.299847	
		1:00-3:59	6.09E+01	36.666517	* p	-2.43E-01	0.185247		-4.70E-01	0.221304	**n	-4.10E-01	0.388845		-6.31E-01	0.447538		4.11E-01	0.297417	
	1	9:00-13:59	-5.02E+01	37.853113		-3.64E-01	0.209552	* n	-5.94E-01	0.255914	**n	-1.20E+00	0.464938	**n	-1.44E+00	0.529081	**n	4.78E-01	0.314678	
		19:00-21:59	-3.85E+00	41.872045		-3.37E-01	0.221599		-3.00E-01	0.231284		-5.21E-01	0.410703		-4.04E-01	0.444081		-2.18E-01	0.251478	
		22:00-0:59	-1.18E+01	39.46118		-3.59E-01	0.202115	* n	-2.54E-01	0.241606		-1.78E-01	0.409786		-1.98E-01	0.4788		-1.06E-01	0.300401	
		1:00-3:59	-1.19E+02	36.794166	**n	-2.95E-01	0.185192		-3.22E-01	0.223676		-5.00E-01	0.389222		-4.94E-01	0.450753		-9.42E-02	0.297487	
	2	9:00-13:59	7.41E+01	36.411236	**p	-5.38E-01	0.201586	**n	-7.71E-01	0.244288	**n	-8.82E-01	0.448053	**n	-1.29E+00	0.507582	**n	6.24E-01	0.299188	**p
		19:00-21:59	2.39E+01	40.913648		-9.76E-02	0.215663		-2.99E-01	0.224967		-4.12E-01	0.401239		-5.51E-01	0.43334		3.02E-01	0.246037	
		22:00-0:59	-6.49E+00	38.560859		-6.96E-02	0.198743		-3.69E-01	0.23463		-2.24E-01	0.403137		-3.00E-01	0.46749		9.83E-02	0.294016	
		1:00-3:59	-3.42E+01	36.417059		-2.70E-01	0.183777		-2.29E-01	0.219858		-1.70E-01	0.386021		-2.35E-01	0.44475		4.76E-02	0.295217	
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S	0	9:00-13:59	2.69E-01	0.063312	**p	-1.53E-03	0.000349	**n	-2.47E-03	0.000423	**n	-4.11E-03	0.000779	**n	-4.96E-03	0.000883	**n	1.93E-03	0.000521	**p
		19:00-21:59	1.91E-01	0.067137	**p	-1.08E-03	0.000353	**n	-1.12E-03	0.000368	**n	-2.21E-03	0.000657	**n	-2.24E-03	0.00071	**n	1.54E-04	0.000405	
		22:00-0:59	2.28E-01	0.062648	**p	-8.59E-04	0.000323	**n	-1.35E-03	0.000381	**n	-1.76E-03	0.000657	**n	-2.38E-03	0.00076	**n	1.40E-03	0.000479	**p
		1:00-3:59	3.50E-01	0.058862	**p	-1.02E-03	0.000298	**n	-1.56E-03	0.000354	**n	-2.22E-03	0.000627	**n	-2.80E-03	0.00072	**n	1.23E-03	0.000481	**p
	1	9:00-13:59	1.43E-01	0.061078	**p	-1.27E-03	0.000338	**n	-1.08E-03	0.000406	**n	-1.66E-03	0.000763	**n	-1.35E-03	0.000858		-6.36E-04	0.000503	
		19:00-21:59	1.20E-01	0.066506	* p	-8.63E-04	0.000349	**n	-8.72E-04	0.000364	**n	-1.15E-03	0.00065	* n	-8.12E-04	0.000702		-6.86E-04	0.0004	* n
		22:00-0:59	2.14E-02	0.062067		-4.96E-04	0.000321		-5.85E-04	0.000376		-6.11E-04	0.000652		-5.91E-04	0.000751		6.41E-05	0.000474	
		1:00-3:59	7.38E-02	0.058264		-9.60E-04	0.000295	**n	-9.42E-04	0.00035	**n	-1.30E-03	0.000621	**n	-1.29E-03	0.000712	* n	1.94E-05	0.000477	
	2	9:00-13:59	1.41E-02	0.062317		-9.07E-04	0.000344	**n	-8.21E-04	0.000416	**n	-8.92E-04	0.000765		-8.08E-04	0.000866		4.54E-05	0.000511	
		19:00-21:59	1.51E-01	0.067426	**p	-7.83E-04	0.000354	**n	-1.00E-03	0.00037	**n	-1.65E-03	0.00066	**n	-1.96E-03	0.000713	**n	5.59E-04	0.000407	
		22:00-0:59	7.72E-02	0.063865		-7.71E-04	0.000329	**n	-1.07E-03	0.000388	**n	-1.65E-03	0.000668	**n	-1.82E-03	0.000774	**n	4.68E-04	0.000488	
		1:00-3:59	-2.85E-02	0.060703		-4.03E-04	0.000306		-4.09E-04	0.000366		-5.86E-04	0.000646		-7.71E-04	0.000742		3.33E-04	0.000495	
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Appendix Table D.3 continued **Tuxedo**.

Estimated coefficient and its standard error of single pollutant at lag 0-2 days for 6 outcomes and 4 time periods

				HR			LnSDNN			LnRMSSD			LnLF			LnHF			LF/HF	
Variable	Lag	TimePeriod	Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error	
Se	0	9:00-13:59	2.17E+02	100.332253	**p	-2.14E+00	0.554383	**n	-3.90E+00	0.667161	**n	-4.68E+00	1.233114	**n	-6.52E+00	1.393103	**n	4.12E+00	0.816608	**p
		19:00-21:59	1.36E+02	115.713617		-1.39E+00	0.607863	**n	-1.50E+00	0.636377	**n	-3.08E+00	1.135937	**n	-3.15E+00	1.22716	**n	4.11E-01	0.69886	
		22:00-0:59	1.39E+02	108.4967		-1.12E+00	0.560952	**n	-1.59E+00	0.65872	**n	-2.52E+00	1.137183	**n	-3.08E+00	1.315115	**n	1.49E+00	0.830085	* p
		1:00-3:59	2.70E+02	103.01595	**p	-9.68E-01	0.519874	* n	-1.71E+00	0.617412	**n	-3.09E+00	1.087939	**n	-3.49E+00	1.250318	**n	1.27E+00	0.834818	
	1	9:00-13:59	2.21E+02	97.499627	**p	-1.53E+00	0.538645	**n	-2.00E+00	0.64916	**n	-2.94E+00	1.206987	**n	-3.30E+00	1.362394	**n	8.85E-01	0.800063	
		19:00-21:59	4.67E+02	114.905458	**p	-2.33E+00	0.605239	**n	-2.12E+00	0.632674	**n	-3.34E+00	1.127937	**n	-2.84E+00	1.219257	**n	-1.19E+00	0.694329	* n
		22:00-0:59	2.67E+02	107.937335	**p	-1.89E+00	0.555846	**n	-2.38E+00	0.654214	**n	-2.91E+00	1.125649	**n	-3.42E+00	1.304429	**n	7.78E-01	0.822908	
		1:00-3:59	1.44E+02	102.091728		-1.92E+00	0.511972	**n	-1.80E+00	0.613002	**n	-2.50E+00	1.077305	**n	-2.81E+00	1.241009	**n	4.55E-01	0.826521	
	2	9:00-13:59	-1.82E+02	98.474614	* n	-1.36E+00	0.544106	**n	-1.53E+00	0.654813	**n	-3.10E-01	1.206658		-3.86E-01	1.362201		4.21E-01	0.79767	
		19:00-21:59	2.53E+02	114.955076	**p	-7.51E-01	0.60494		-1.07E+00	0.632334	* n	-1.76E+00	1.121455		-2.24E+00	1.211373	* n	6.55E-01	0.689875	
		22:00-0:59	-5.23E+01	109.861957		-5.58E-01	0.566695		-1.16E+00	0.665257	* n	-1.96E+00	1.145342	* n	-2.34E+00	1.324278	* n	7.12E-01	0.835904	
		1:00-3:59	-1.15E+02	102.651764		5.24E-01	0.517445		5.75E-01	0.617054		-3.47E-01	1.082765		-6.39E-01	1.244479		6.79E-01	0.830843	
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Si	0	9:00-13:59	5.98E+00	1.610958	**p	-3.15E-02	0.008882	**n	-5.25E-02	0.010779	**n	-5.64E-02	0.019965	**n	-7.69E-02	0.022692	**n	3.87E-02	0.013408	**p
		19:00-21:59	6.24E+00	1.759839	**p	-2.19E-02	0.009259	**n	-2.97E-02	0.009683	**n	-4.22E-02	0.017269	**n	-4.60E-02	0.018673	**n	1.13E-02	0.010652	
		22:00-0:59	5.89E+00	1.653681	**p	-1.65E-02	0.008576	* n	-3.12E-02	0.010089	**n	-3.90E-02	0.017317	**n	-5.79E-02	0.020098	**n	4.05E-02	0.012658	**p
		1:00-3:59	4.53E+00	1.544046	**p	-1.77E-02	0.007773	**n	-2.91E-02	0.009209	**n	-3.53E-02	0.016294	**n	-4.53E-02	0.018728	**n	2.34E-02	0.0125	* p
	1	9:00-13:59	-7.29E-01	1.56615		-2.84E-02	0.008656	**n	-2.63E-02	0.010423	**n	-4.63E-02	0.019398	**n	-3.84E-02	0.021834	* n	-1.79E-02	0.012762	
		19:00-21:59	5.58E+00	1.731185	**p	-3.47E-02	0.009172	**n	-3.24E-02	0.009497	**n	-6.14E-02	0.016971	**n	-5.53E-02	0.018326	**n	-1.18E-02	0.010452	
		22:00-0:59	2.29E+00	1.618878		-2.87E-02	0.008375	**n	-3.27E-02	0.009787	**n	-4.34E-02	0.016976	**n	-4.75E-02	0.019567	**n	4.93E-03	0.012335	
		1:00-3:59	2.54E+00	1.536107	* p	-2.80E-02	0.00772	**n	-3.73E-02	0.009157	**n	-5.52E-02	0.016234	**n	-6.66E-02	0.018609	**n	2.31E-02	0.012455	* p
	2	9:00-13:59	-1.47E-01	1.584936		-1.80E-02	0.008738	**n	-1.64E-02	0.0106		-2.69E-02	0.019404		-2.55E-02	0.02201		2.47E-03	0.012961	
		19:00-21:59	1.90E+00	1.733507		-4.71E-03	0.009208		-1.69E-02	0.009531	* n	-2.28E-02	0.017023		-3.25E-02	0.018397	* n	2.04E-02	0.010494	* p
		22:00-0:59	1.60E+00	1.629018		-9.42E-03	0.008368		-2.01E-02	0.009886	**n	-2.99E-02	0.017053	* n	-3.66E-02	0.019739	* n	2.25E-02	0.012437	* p
		1:00-3:59	-2.15E+00	1.539339		-2.75E-03	0.007726		-6.04E-03	0.00919		-1.19E-02	0.016248		-1.75E-02	0.018668		1.39E-02	0.012465	
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Ti	0	9:00-13:59	1.38E+02	37.195174	**p	-1.38E+00	0.203853	**n	-1.95E+00	0.246821	**n	-2.59E+00	0.45758	**n	-3.19E+00	0.519092	**n	1.17E+00	0.307919	**p
		19:00-21:59	1.04E+02	38.437486	**p	-5.08E-01	0.203041	**n	-4.79E-01	0.211119	**n	-7.29E-01	0.37705	* n	-6.91E-01	0.407373	* n	-1.62E-02	0.232611	
		22:00-0:59	5.01E+01	36.142154		-3.84E-01	0.186621	**n	-5.50E-01	0.220026	**n	-6.27E-01	0.379085	* n	-7.96E-01	0.439239	* n	4.55E-01	0.276457	* p
		1:00-3:59	1.37E+02	33.885399	**p	-3.85E-01	0.17146	**n	-6.22E-01	0.203791	**n	-8.56E-01	0.359238	**n	-1.09E+00	0.413048	**n	5.21E-01	0.275611	* p
	1	9:00-13:59	4.80E+01	35.612555		-5.35E-01	0.198101	**n	-6.40E-01	0.23742	**n	-7.96E-01	0.44911	* n	-6.79E-01	0.511254		-2.57E-01	0.305606	
		19:00-21:59	1.33E+02	39.058572	**p	-8.01E-01	0.207311	**n	-9.12E-01	0.215326	**n	-1.62E+00	0.383712	**n	-1.58E+00	0.415029	**n	-9.89E-02	0.237053	
		22:00-0:59	4.03E+01	36.967587		-3.62E-01	0.189438	* n	-5.47E-01	0.225316	**n	-7.89E-01	0.384622	**n	-9.22E-01	0.44812	**n	3.46E-01	0.281653	
		1:00-3:59	6.49E+01	34.69002	* p	-5.84E-01	0.17446	**n	-6.24E-01	0.209926	**n	-1.21E+00	0.366853	**n	-1.39E+00	0.423841	**n	3.94E-01	0.281382	
	2	9:00-13:59	-3.89E+01	35.368018		-1.31E-01	0.193622		-9.80E-02	0.234126		-5.98E-01	0.429928		-4.87E-01	0.486279		-1.23E-01	0.287208	
		19:00-21:59	1.40E+02	39.019949	**p	-5.36E-01	0.206074	**n	-7.72E-01	0.214395	**n	-9.50E-01	0.382609	**n	-1.21E+00	0.413326	**n	4.20E-01	0.236002	* p
		22:00-0:59	8.93E+01	36.683115	**p	-1.86E-01	0.188716		-3.93E-01	0.222752	* n	-3.45E-01	0.384053		-4.98E-01	0.444609		4.50E-01	0.279895	
		1:00-3:59	-7.02E+01	34.497895	**n	6.02E-02	0.174113		-3.58E-02	0.20751		-4.13E-02	0.365733		-1.37E-01	0.420364		2.65E-01	0.2806	
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V	0	9:00-13:59	2.53E+02	68.962164	**p	-1.70E+00	0.383031	**n	-2.37E+00	0.462881	**n	-3.12E+00	0.859689	**n	-3.96E+00	0.973504	**n	1.25E+00	0.574211	**p
		19:00-21:59	-1.71E+02	75.243847	**n	2.95E-01	0.396093		4.92E-01	0.413869		5.90E-01	0.738535		7.48E-01	0.79727		-2.83E-01	0.452995	
		22:00-0:59	-1.06E+02	70.386638		-4.92E-02	0.366478		2.00E-02	0.430127		4.99E-01	0.737153		6.20E-01	0.8532		-2.83E-01	0.536221	
		1:00-3:59	8.62E+01	69.092113		-2.60E-01	0.347926		-1.91E-01	0.415157		-2.58E-01	0.730324		-4.73E-01	0.839878		1.77E-01	0.558913	
	1	9:00-13:59	1.31E+02	73.694456	* p	-5.12E-01	0.408808		-9.29E-01	0.499848	* n	-9.99E-01	0.899802		-1.53E+00	1.026643		9.81E-01	0.611983	
		19:00-21:59	-2.97E+01	80.079134		-7.44E-02	0.423068		-8.66E-02	0.442619		3.53E-01	0.787477		2.36E-01	0.851176		-7.96E-02	0.482251	
		22:00-0:59	-1.13E+02	75.309592		3.29E-01	0.387927		2.31E-01	0.461046		7.52E-01	0.782487		1.41E+00	0.912905		-1.13E+00	0.572604	**n
		1:00-3:59	-3.38E+01	71.641808		-3.47E-01	0.359621		-2.89E-01	0.434822		-6.73E-01	0.755205		-6.12E-01	0.874786		-1.15E-01	0.577235	
	2	9:00-13:59	-2.27E+02	71.22211	**n	5.58E-01	0.39563		3.94E-01	0.477926		1.20E+00	0.879743		9.09E-01	0.995621		6.47E-01	0.586731	
		19:00-21:59	8.39E+01	77.703663		6.73E-02	0.409498		-5.18E-02	0.427691		1.96E-01	0.76303		-1.25E-01	0.823627		3.90E-01	0.468079	
		22:00-0:59	4.15E+01	72.783913		3.30E-01	0.375621		3.72E-02	0.443019		4.11E-01	0.762919		1.39E-01	0.882349		5.04E-01	0.55465	
		1:00-3:59	7.29E+01	69.061246		1.40E-01	0.347512		1.80E-01	0.414474		4.69E-01	0.729741		5.30E-01	0.839031		-6.58E-02	0.558489	
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Zn	0	9:00-13:59	-9.43E+00	12.333112		6.74E-02	0.068264		-6.53E-03	0.082594		1.53E-01	0.150412		9.00E-02	0.170412		1.08E-01	0.100327	
		19:00-21:59	2.33E+01	13.517836	* p	-5.13E-02	0.07095		-6.13E-02	0.074156		2.21E-02	0.132223		-1.36E-02	0.142913		6.72E-02	0.081315	
		22:00-0:59	5.45E+01	12.591857	**p	-6.73E-02	0.064999		-1.38E-01	0.07679	* n	-1.41E-01	0.132264		-2.29E-01	0.15313		1.44E-01	0.09648	
		1:00-3:59	4.83E+01	20.883813	**p	-1.61E-01	0.104817		-3.64E-01	0.124789	**n	-4.28E-01	0.220219	* n	-6.74E-01	0.253025	**n	4.81E-01	0.168848	**p
	1	9:00-13:59	2.75E+01	20.683607		-3.17E-01	0.114595	**n	-6.03E-01	0.138465	**n	-8.11E-01	0.253592	**n	-1.09E+00	0.28733	**n	5.72E-01	0.169085	**p
		19:00-21:59	7.35E+01	23.490826	**p	-4.82E-01	0.123453	**n	-5.11E-01	0.129074	**n	-8.82E-01	0.230113	**n	-8.56E-01	0.248726	**n	-5.53E-02	0.141512	
		22:00-0:59	3.03E+01	21.888669		-3.07E-01	0.113098	**n	-3.95E-01	0.133454	**n	-5.57E-01	0.229841	**n	-6.27E-01	0.266233	**n	1.35E-01	0.167724	
		1:00-3:59	6.25E+01	21.242049	**p	-4.69E-01	0.10604	**n	-5.72E-01	0.127768	**n	-8.89E-01	0.223332	**n	-1.04E+00	0.258207	**n	2.97E-01	0.171178	* p
	2	9:00-13:59	5.30E+01	20.477413	**p	-1.39E-01	0.113496		-3.63E-01	0.136686	**n	-3.23E-01	0.252106		-5.26E-01	0.285017	* n	4.61E-01	0.167038	**p
		19:00-21:59	4.59E+00	23.249373		2.34E-03	0.122046		-1.93E-01	0.127589		-1.20E-01	0.227669		-2.99E-01	0.246006		3.30E-01	0.140044	**p
		22:00-0:59	5.83E+01	21.654922	**p	-2.59E-01	0.111939	**n	-4.97E-01	0.131756	**n	-6.12E-01	0.227908	**n	-8.29E-01	0.263318	**n	4.61E-01	0.166008	**p
		1:00-3:59	4.85E+00	20.706857		-1.42E-01	0.103745		-2.27E-01	0.123675	* n	-3.56E-01	0.218322		-4.70E-01	0.250909	* n	2.15E-01	0.167391	

Appendix Table D.4. Acute Effects of CAPs on Frequency Domain HRV by Source Category at Tuxedo

Estimated coefficient and its standard error of multiple pollutants at lag 0-2 days for 6 outcomes and 4 time periods
The 6 sources were obtained from the factor analysis

				HR			LnSDNN			LnRMSSD			LnLF			LnHF			LF/HF	
Variable	Lag	TimePeriod	Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error	
Sulf	0	9:00-13:59	0.22374679	2.008043		-1.42E-02	0.011575		-0.045036106	0.013951	**n	-0.058012371	0.026224	**n	-0.084082802	0.029516	**n	0.057825651	0.017346	**p
		19:00-21:59	-1.5202285	2.42274		-7.17E-04	0.012697		-0.003358392	0.013384		-0.021939742	0.023798		-0.016605991	0.025813		-0.002562889	0.014749	
		22:00-0:59	-0.41370577	2.222458		-1.38E-02	0.011734		-0.016292253	0.013789		-0.027226103	0.024055		-0.034802573	0.027742		0.018638103	0.017263	
		1:00-3:59	1.55462677	2.105786		8.60E-03	0.010684		-0.001013721	0.012751		-0.016117267	0.02273		-0.023038664	0.026129		0.017798694	0.017696	
	1	9:00-13:59	4.93287129	1.915289	**p	-2.11E-02	0.011047	* n	-0.025785147	0.01321	* n	-0.036052483	0.025466		-0.041927731	0.028402		0.010693001	0.016514	
		19:00-21:59	4.25306641	2.328627	* p	-2.33E-02	0.012137	* n	-0.020222091	0.012794		-0.023521532	0.022803		-0.019410734	0.024703		-0.013058253	0.014086	
		22:00-0:59	1.89977193	2.119524		-1.58E-02	0.011293		-0.024365147	0.013129	* n	-0.019771698	0.023128		-0.019887985	0.026469		-0.000469752	0.016449	
		1:00-3:59	4.77527542	2.007731	**p	-3.05E-02	0.010208	**n	-0.022469588	0.012113	* n	-0.032936014	0.021782		-0.031917729	0.024925		-0.001990156	0.016976	
	2	9:00-13:59	-1.51036359	2.089564		-2.01E-02	0.012041	* n	-0.03365005	0.014511	**n	-0.008858696	0.027309		-0.015437759	0.030741		0.024390501	0.018074	
		19:00-21:59	2.33304497	2.503627		-2.23E-02	0.013109	* n	-0.019514046	0.013823		-0.040123688	0.024279	* n	-0.032835765	0.02633		-0.018934294	0.015039	
		22:00-0:59	-5.15839262	2.394265	**n	-4.90E-03	0.012586		-0.00032055	0.01483		-0.028856367	0.025604		-0.020653283	0.029546		-0.019724949	0.018388	
		1:00-3:59	-0.73808745	2.163683		1.10E-02	0.011009		0.016936273	0.013154		-0.018862944	0.023359		-0.01047985	0.026835		-0.015906623	0.018189	
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Metals	0	9:00-13:59	0.35683695	1.525196		-5.54E-03	0.00877		-0.01811658	0.010628	* n	-0.01057737	0.019759		-0.02317509	0.022277		0.021405214	0.013157	
		19:00-21:59	-2.76378404	1.788222		-8.20E-03	0.009391		-0.002774125	0.0099		-0.01700317	0.017577		-0.008543616	0.019078		-0.010905162	0.010914	
		22:00-0:59	-3.34400898	1.656667	**n	-2.22E-03	0.008694		0.004785384	0.010297		-0.004540351	0.017808		-0.001647968	0.020624		-0.008022944	0.012845	
		1:00-3:59	-2.02217466	1.977381		2.02E-02	0.009977	**p	0.015108273	0.011987		0.005746922	0.02127		-0.000583846	0.024531		0.013377647	0.01655	
	1	9:00-13:59	1.7172453	1.877851		-2.68E-03	0.010858		-0.021133291	0.013064		-0.044263303	0.02482	* n	-0.058232597	0.027974	**n	0.025376973	0.016529	
		19:00-21:59	0.05279435	2.227294		-1.69E-02	0.011716		-0.005485629	0.012357		-0.022771811	0.021912		-0.014228598	0.023786		-0.018582406	0.01361	
		22:00-0:59	-4.40915164	2.058998	**n	-8.62E-04	0.010749		0.007968755	0.012735		0.010048846	0.022099		0.032029975	0.025607		-0.040071304	0.015951	**n
		1:00-3:59	-2.15893965	1.985882		-1.33E-02	0.009946		-0.003528223	0.012022		-0.01536201	0.021273		-0.011043536	0.024632		-0.007349778	0.016541	
	2	9:00-13:59	3.23951968	1.869055	* p	-2.89E-02	0.010813	**n	-0.039382303	0.01297	**n	-0.051573426	0.024731	**n	-0.062999599	0.027836	**n	0.021482145	0.016364	
		19:00-21:59	-0.31953366	2.221294		1.70E-02	0.011611		0.007638072	0.012278		0.032507751	0.021828		0.025191458	0.023682		0.006649551	0.013537	
		22:00-0:59	-3.22412079	2.051989		2.17E-02	0.010734	**p	0.012545418	0.012683		0.035208493	0.022067		0.031526938	0.025485		0.009689132	0.015864	
		1:00-3:59	0.94572526	1.933525		1.09E-02	0.009709		0.009916659	0.01163		0.017535595	0.020827		0.017032758	0.02399		0.003863285	0.01621	
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Soil	0	9:00-13:59	4.56011541	1.931109	**p	-3.10E-02	0.011114	**n	-0.037001875	0.013454	**n	-0.059284642	0.025733	**n	-0.057401176	0.029036	**n	-0.003330332	0.017171	
		19:00-21:59	5.04400342	2.23321	**p	-3.76E-02	0.011713	**n	-0.033196742	0.01234	**n	-0.065961225	0.0219	**n	-0.060878626	0.023762	**n	-0.007341359	0.013584	
		22:00-0:59	-2.60864593	2.066062		-3.95E-03	0.010878		-0.005911734	0.012832		-0.010489174	0.022274		-0.012382145	0.025728		0.009350924	0.016017	
		1:00-3:59	2.71494127	2.128261		-3.42E-03	0.01077		-0.009053119	0.012875		-0.006069596	0.022924		-0.004469	0.026396		0.000362257	0.017843	
	1	9:00-13:59	3.98379435	2.122752	* p	-4.47E-02	0.012267	**n	-0.032241103	0.014764	**n	-0.066002338	0.027909	**n	-0.050858527	0.031364		-0.031349966	0.018485	* n
		19:00-21:59	11.87898775	2.635575	**p	-5.38E-02	0.013828	**n	-0.061168209	0.014596	**n	-0.09134821	0.025923	**n	-0.097639096	0.028138	**n	0.010168416	0.016098	
		22:00-0:59	6.84782898	2.440205	**p	-3.13E-02	0.012811	**n	-0.055299597	0.015141	**n	-0.07053294	0.026173	**n	-0.101789616	0.030274	**n	0.054765872	0.018852	**p
		1:00-3:59	6.08149466	2.3226	**p	-5.05E-02	0.01166	**n	-0.063974796	0.014059	**n	-0.094345535	0.024939	**n	-0.11128036	0.02881	**n	0.027352742	0.0194	
	2	9:00-13:59	-0.04189789	1.957371		-1.08E-02	0.011284		-0.014063314	0.013516		-0.000254808	0.025651		-0.000815711	0.02869		0.005976479	0.016708	
		19:00-21:59	1.44318261	2.320856		-2.27E-02	0.012126	* n	-0.032575044	0.012798	**n	-0.069825674	0.022789	**n	-0.077845276	0.024709	**n	0.021094827	0.014109	
		22:00-0:59	2.33373485	2.131843		-5.57E-05	0.011204		-0.014013055	0.013163		-0.016839192	0.023103		-0.02490875	0.02654		0.019881905	0.016503	
		1:00-3:59	-3.49703258	2.021864	* n	1.19E-03	0.01021		-0.004044311	0.012181		-0.00417295	0.021848		-0.010091138	0.025074		0.00799033	0.017016	
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Salt	0	9:00-13:59	1.57934125	1.732106		-9.72E-04	0.009971		-0.011050377	0.012054		-0.002417298	0.022533		-0.006352322	0.025402		0.010959405	0.014991	
		19:00-21:59	4.64783658	2.022936	**p	-4.32E-02	0.010673	**n	-0.033896939	0.011256	**n	-0.066776417	0.019958	**n	-0.058950551	0.02169	**n	-0.012674648	0.012435	
		22:00-0:59	2.84196957	1.869711		-1.89E-02	0.00984	* n	-0.024589929	0.011762	**n	-0.042191257	0.020167	**n	-0.051261633	0.023525	**n	0.01911854	0.014673	
		1:00-3:59	2.50873179	1.815316		-1.09E-02	0.009107		-0.022416674	0.011011	**n	-0.024995537	0.019413		-0.026653794	0.022512		0.004889308	0.015089	
	1	9:00-13:59	3.41997056	1.565291	**p	-4.49E-03	0.008988		-0.003854695	0.011034		0.00808729	0.020037		0.008632828	0.022842		-0.005708264	0.01375	
		19:00-21:59	2.88979445	1.873533		-2.09E-02	0.009919	**n	-0.027157843	0.010452	**n	-0.030602071	0.018392	* n	-0.035553266	0.019997	* n	0.01008399	0.011474	
		22:00-0:59	4.83670749	1.785015	**p	-8.59E-03	0.009233		-0.016288316	0.011121		-0.004514288	0.01883		-0.014040142	0.02209		0.020843533	0.013793	
		1:00-3:59	2.80339942	1.664544	* p	-1.06E-02	0.008349		-0.015706918	0.010152		0.008135075	0.017747		0.00286529	0.020637		0.01217114	0.013786	
	2	9:00-13:59	0.5025712	1.519636		-1.55E-04	0.008739		-0.002807049	0.010634		0.011801414	0.019592		0.013760008	0.0222		-0.002433638	0.013218	
		19:00-21:59	-0.7173405	1.757452		-5.43E-03	0.009227		-0.001460062	0.009737		-0.000981777	0.017291		0.00191447	0.018771		-0.006410584	0.010742	
		22:00-0:59	3.1681427	1.643895	* p	-6.27E-03	0.008588		-0.005875263	0.010218		0.00466145	0.017622		0.001699457	0.020445		0.012022	0.012739	
		1:00-3:59	2.17316445	1.555832		-1.30E-03	0.007829		-0.003084759	0.009408		0.026927864	0.016689		0.029073177	0.019281		0.001530814	0.012981	
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Fwk	0	9:00-13:59	-8.92239333	1.642473	**n	2.77E-02	0.009449	**p	0.036530915	0.011467	**p	0.046564671	0.021304	**p	0.05728726	0.024088	**p	-0.022745426	0.014289	
		19:00-21:59	0.36796588	1.938624		8.26E-03	0.01019		0.010673958	0.010745		0.032460561	0.019079	* p	0.029364375	0.020715		0.001242175	0.011857	
		22:00-0:59	5.52050905	1.796771	**p	4.88E-03	0.009468		-0.004089271	0.011185		0.007973084	0.019255		-0.001699177	0.022346		0.019272648	0.013923	
		1:00-3:59	4.91038456	1.882121	**p	-1.55E-02	0.009481		-0.022885794	0.011421	**n	-0.026435145	0.020218		-0.03891745	0.023347	* n	0.017709402	0.015728	
	1	9:00-13:59	-5.01428105	1.888808	**n	9.70E-03	0.010896		0.004890619	0.013117		0.003796449	0.024804		0.004537785	0.027888		0.000182207	0.016412	
		19:00-21:59	-2.84363206	2.26016		1.16E-02	0.011855		0.008128175	0.012499		-0.000132285	0.022205		0.000843468	0.024091		0.002867465	0.013771	
		22:00-0:59	-1.93216043	2.080145		5.41E-03	0.010942		0.015419728	0.01289		0.01235863	0.022434		0.021219267	0.025911		-0.014728085	0.016131	
		1:00-3:59	-5.2889083	1.963346	**n	8.60E-03	0.00989		0.010171174	0.011885		0.011120384	0.021123		0.011656269	0.024358		-0.004160829	0.016437	
	2	9:00-13:59	3.37957749	1.979014	* p	-1.41E-02	0.011407		-0.018914137	0.013761		-0.044794672	0.026053	* n	-0.067717165	0.02936	**n	0.03128765	0.0173	* p
		19:00-21:59	1.04477505	2.320741		2.45E-02	0.012174	**p	0.006755526	0.012854		0.044685467	0.02278	* p	0.025304122	0.024727		0.033344309	0.014146	**p
		22:00-0:59	2.60405631	2.180891		2.46E-03	0.011381		-0.011027148	0.013536		0.020418341	0.023417		0.009755788	0.027105		0.018535472	0.01688	
		1:00-3:59	1.61157313	2.048587		-2.05E-03	0.010335		-0.00795186	0.012398		0.018451107	0.022038		0.007420811	0.025426		0.018580131	0.017147	
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EC.OC	0	9:00-13:59	-0.87683382	2.410669		6.32E-03	0.013891		-0.008994407	0.01679		-0.036915212	0.031454		-0.04449911	0.035437		0.016387126	0.02089	
		19:00-21:59	-0.46918083	2.751073		-3.07E-02	0.014458	**n	-0.022491607	0.015228		-0.068732504	0.02702	**n	-0.051115613	0.029321	* n	-0.02832456	0.016766	* n
		22:00-0:59	-2.07756158	2.535853		-2.06E-02	0.013364		-0.029743911	0.015799	* n	-0.046195189	0.027408	* n	-0.056886893	0.031681	* n	0.027253336	0.019724	
		1:00-3:59	7.87478996	2.598642	**p	-2.66E-02	0.013202	**n	-0.03043736	0.015763	* n	-0.055350426	0.027982	**n	-0.051063933	0.032243		-0.006760624	0.021776	
	1	9:00-13:59	6.47491184	2.600477	**p	-3.12E-02	0.015087	**n	-0.032196365	0.0182	* n	-0.043363659	0.034611		-0.034435634	0.039157		-0.02257793	0.023299	
		19:00-21:59	8.99219481	3.163525	**p	-5.61E-02	0.016648	**n	-0.068562249	0.017569	**n	-0.08955599	0.031076	**n	-0.098112113	0.033758	**n	0.01499124	0.019339	
		22:00-0:59	9.04914634	2.962989	**p	-3.30E-02	0.015392	**n	-0.058776309	0.018325	**n	-0.060342193	0.031487	* n	-0.093649163	0.036627	**n	0.062611152	0.022834	**p
		1:00-3:59	9.95439187	2.791815	**p	-6.21E-02	0.013938	**n	-0.07488374	0.016916	**n	-0.090894785	0.029886	**n	-0.107819169	0.034633	**n	0.030199441	0.023233	
	2	9:00-13:59	-2.20702215	2.69511		-1.82E-02	0.015538		-0.036034125	0.018772	* n	-0.007836909	0.034931		-0.01785549	0.039399		0.026619882	0.023253	
		19:00-21:59	-0.07852637	3.097963		-2.96E-02	0.016275	* n	-0.039474717	0.017177	**n	-0.077937394	0.030483	**n	-0.081321225	0.033093	**n	0.008631564	0.018936	
		22:00-0:59	2.31984224	2.877026		-1.10E-02	0.015047		-0.019738103	0.017876		-0.032404882	0.030893		-0.038029759	0.035801		0.012327314	0.0223	
		1:00-3:59	-0.07058511	2.712262		-1.36E-02	0.013638		-0.010551977	0.016388		-0.025613068	0.02907		-0.021016029	0.03355		-0.010381275	0.022616	

Appendix Table D.5. Acute Effects of CAPs on Frequency Domain HRV by Pollutant at East Lansing

Estimated coefficient and its standard error of single pollutant at lag 0-2 days for 6 outcomes and 4 time periods

			HR			LnSDNN			LnRMSSD			LnLF			LnHF			LF/HF		
Variable	Lag	TimePeriod	Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error	
CAPs	0	9:00-13:59	-4.46E-02	0.02633	* n	-6.24E-04	0.000335	* n	-8.11E-04	0.000385	**n	-1.66E-03	0.000707	**n	-2.30E-03	0.001057	**n	8.76E-04	0.000585	
		19:00-21:59	-1.46E-02	0.023587		-3.02E-05	0.000172		6.32E-06	0.000186		-6.11E-05	0.000347		7.44E-05	0.000383		-8.77E-05	0.000206	
		22:00-0:59	4.70E-02	0.02915		-2.24E-04	0.00019		-2.32E-04	0.000206		-2.81E-04	0.000364		-4.31E-04	0.000418		2.06E-04	0.000226	
		1:00-3:59	3.71E-02	0.027808		-3.19E-04	0.000174	* n	-3.78E-04	0.000183	**n	-6.16E-04	0.00034	* n	-6.37E-04	0.000384	* n	9.65E-05	0.00022	
	1	9:00-13:59	2.96E-02	0.025492		3.38E-04	0.000299		3.46E-04	0.000351		4.16E-04	0.000644		4.42E-04	0.000964		3.99E-05	0.000533	
		19:00-21:59	2.48E-02	0.023495		-2.08E-04	0.000172		-2.21E-04	0.000184		-4.26E-04	0.000347		-4.24E-04	0.000385		1.22E-04	0.000204	
		22:00-0:59	4.70E-02	0.029033		-6.60E-05	0.000188		-1.00E-04	0.000204		-9.03E-05	0.000364		-9.84E-05	0.000418		1.49E-04	0.000224	
		1:00-3:59	2.68E-02	0.027828		-1.09E-04	0.000174		-1.88E-04	0.000184		-2.39E-04	0.000343		-3.04E-04	0.000388		1.50E-04	0.000219	
	2	9:00-13:59	6.01E-02	0.025207	**p	-6.66E-04	0.000267	**n	-6.51E-04	0.000328	**n	-5.95E-04	0.00059		-7.89E-04	0.00088		2.99E-04	0.000487	
		19:00-21:59	1.18E-02	0.025587		-1.83E-06	0.000188		-1.18E-04	0.000203		-1.17E-04	0.000379		-8.58E-05	0.000418		2.29E-04	0.000225	
		22:00-0:59	1.31E-03	0.031619		-1.45E-04	0.000207		-1.58E-04	0.000225		-3.86E-04	0.000398		-2.35E-04	0.000456		6.87E-05	0.000247	
		1:00-3:59	5.38E-02	0.030295	* p	-2.38E-04	0.000191		-3.03E-04	0.000201		-3.30E-04	0.000373		-3.71E-04	0.000422		3.60E-04	0.000241	
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BC	0	9:00-13:59	4.39E+00	5.587548		-4.62E-02	0.071473		-7.69E-02	0.082944		-1.93E-01	0.148475		-2.47E-01	0.221519		7.97E-02	0.122276	
		19:00-21:59	-1.05E+01	4.979065	**n	2.68E-02	0.036966		1.94E-03	0.03989		2.62E-02	0.07441		2.87E-02	0.082088		5.32E-02	0.044203	
		22:00-0:59	6.05E+00	6.182364		7.80E-03	0.040678		-1.58E-02	0.044132		1.20E-02	0.077988		-3.10E-02	0.089825		5.26E-02	0.048521	
		1:00-3:59	6.69E+00	5.912329		-5.63E-02	0.037274		-8.08E-02	0.039275	**n	-1.55E-01	0.07276	**n	-1.51E-01	0.08245	* n	5.57E-02	0.047393	
	1	9:00-13:59	-6.07E-01	5.394251		2.79E-02	0.061944		5.68E-02	0.074386		4.69E-04	0.135202		-2.45E-02	0.202288		2.99E-02	0.111689	
		19:00-21:59	-4.47E+00	5.000737		-6.21E-03	0.037014		-1.32E-02	0.039655		-3.60E-02	0.075109		-4.14E-02	0.083142		4.92E-02	0.043664	
		22:00-0:59	5.72E+00	6.186715		1.11E-02	0.040754		-1.50E-02	0.04415		9.51E-03	0.07877		-1.65E-02	0.090294		9.93E-02	0.047642	**p
		1:00-3:59	1.39E+01	5.919206	**p	-5.51E-02	0.038068		-9.20E-02	0.039936	**n	-1.30E-01	0.074821	* n	-1.75E-01	0.084263	**n	1.11E-01	0.046931	**p
	2	9:00-13:59	1.42E+00	5.614452		-5.31E-02	0.061858		-8.56E-02	0.073783		-2.16E-01	0.133718		-3.84E-01	0.199125	* n	2.43E-01	0.109898	**p
		19:00-21:59	1.80E+00	4.962418		8.79E-03	0.036451		-5.13E-04	0.039366		2.38E-03	0.073316		-2.61E-02	0.080618		2.01E-02	0.043657	
		22:00-0:59	-3.51E+00	6.153982		-8.21E-03	0.040172		-2.83E-02	0.043595		-6.51E-02	0.076982		-1.03E-01	0.088011		4.71E-02	0.047969	
		1:00-3:59	8.23E+00	5.914786		3.86E-02	0.036935		3.50E-02	0.038915		9.42E-02	0.07202		6.00E-02	0.081469		4.41E-02	0.047028	
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EC	0	9:00-13:59	-5.29E+00	4.298874		5.75E-02	0.05289		3.27E-02	0.064811		7.37E-02	0.117099		9.64E-02	0.174262		-1.99E-02	0.095939	
		19:00-21:59	3.98E+00	3.972004		-5.39E-03	0.02861		-4.28E-02	0.031116		-7.35E-02	0.057848		-1.12E-01	0.063321	* n	7.22E-02	0.034702	**p
		22:00-0:59	1.20E+01	4.921288	**p	-3.01E-02	0.031165		-3.66E-02	0.034156		-6.57E-02	0.059972		-7.85E-02	0.068866		3.52E-02	0.03829	
		1:00-3:59	1.83E+01	4.710101	**p	-8.81E-02	0.028584	**n	-1.05E-01	0.030259	**n	-1.50E-01	0.056287	**n	-1.89E-01	0.06374	**n	6.41E-02	0.037619	* p
	1	9:00-13:59	7.01E+00	4.171646	* p	-4.12E-02	0.055068		-7.85E-03	0.06025		-4.04E-02	0.11383		-3.97E-02	0.170165		3.97E-03	0.093753	
		19:00-21:59	-8.49E-01	3.99153		-2.31E-02	0.028996		-3.89E-02	0.031369		-6.96E-02	0.059149		-1.02E-01	0.065203		5.33E-02	0.034753	
		22:00-0:59	3.48E+00	4.937078		2.43E-02	0.031624		3.03E-03	0.034599		5.00E-03	0.061335		1.20E-02	0.070641		5.89E-02	0.03803	
		1:00-3:59	7.01E+00	4.672775		-1.45E-02	0.029303		-3.52E-02	0.03097		-3.83E-02	0.058102		-6.26E-02	0.065703		6.98E-02	0.037426	* p
	2	9:00-13:59	-1.27E+00	4.056203		-8.66E-02	0.052009	* n	-7.61E-02	0.058424		-1.01E-01	0.106691		-1.86E-01	0.158852		1.20E-01	0.087463	
		19:00-21:59	3.14E+00	3.751271		-2.02E-02	0.026963		-2.90E-02	0.029308		-6.55E-02	0.054571		-8.08E-02	0.059773		2.25E-02	0.032665	
		22:00-0:59	5.17E-01	4.643908		7.27E-04	0.02939		-5.00E-03	0.032206		1.04E-02	0.05661		2.54E-04	0.065004		3.11E-02	0.036015	
		1:00-3:59	-1.86E+00	4.445594		1.82E-02	0.027006		5.67E-03	0.02859		2.70E-02	0.053224		6.21E-03	0.060254		4.28E-02	0.035439	
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OC	0	9:00-13:59	1.42E-01	0.749316		2.85E-02	0.009433	**p	2.87E-02	0.011158	**p	5.04E-02	0.019635	**p	6.76E-02	0.029266	**p	-1.96E-02	0.016159	
		19:00-21:59	1.21E+00	0.715503	* p	-3.20E-03	0.005239		-4.05E-03	0.005677		-6.00E-03	0.010659		-1.54E-03	0.01175		-1.61E-03	0.006314	
		22:00-0:59	3.47E-01	0.890522		-3.87E-03	0.005699		-3.08E-03	0.006248		-7.88E-03	0.011036		-1.01E-02	0.012792		-2.68E-03	0.006921	
		1:00-3:59	2.25E+00	0.845822	**p	-8.53E-03	0.005278		-1.07E-02	0.005576	* n	-1.64E-02	0.010426		-1.72E-02	0.011814		6.53E-03	0.006797	
	1	9:00-13:59	-1.33E+00	0.793391	* n	6.15E-03	0.0088		2.32E-03	0.010551		1.97E-02	0.019833		2.29E-02	0.029691		-1.06E-03	0.016397	
		19:00-21:59	2.33E+00	0.775299	**p	-6.62E-03	0.005711		-5.84E-03	0.006143		-1.40E-02	0.011752		-9.75E-03	0.01307		-1.81E-03	0.006767	
		22:00-0:59	-7.00E-01	0.962953		1.11E-02	0.006212	* p	5.87E-03	0.006797		1.36E-02	0.01216		9.93E-03	0.013997		1.10E-02	0.007344	
		1:00-3:59	2.04E+00	0.901688	**p	-1.10E-03	0.005836		-7.12E-03	0.006155		-1.09E-02	0.011642		-1.41E-02	0.013162		1.26E-02	0.007215	* p
	2	9:00-13:59	-1.01E+00	0.74678		5.55E-03	0.007879		1.99E-03	0.009543		1.24E-02	0.017703		1.20E-02	0.026433		2.26E-03	0.014596	
		19:00-21:59	6.70E-01	0.713373		3.78E-04	0.005185		5.45E-03	0.005615		7.22E-03	0.010562		1.22E-02	0.01165		-1.12E-02	0.006239	* n
		22:00-0:59	-3.33E-01	0.887306		4.96E-03	0.005642		4.70E-03	0.006186		5.71E-03	0.010941		4.75E-03	0.012589		-1.15E-03	0.006834	
		1:00-3:59	3.22E-01	0.842623		6.49E-03	0.005239		6.42E-03	0.005533		1.20E-02	0.010359		1.05E-02	0.011729		6.02E-04	0.00672	
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Al	0	9:00-13:59	-5.43E-01	2.616061		-5.47E-02	0.03302	* n	-3.54E-02	0.0379		-1.12E-01	0.068154		-1.50E-01	0.101517		4.74E-02	0.056051	
		19:00-21:59	-5.66E+00	2.350375	**n	1.37E-02	0.017161		3.43E-02	0.018554	* p	4.84E-02	0.03436		8.26E-02	0.037668	**p	-4.52E-02	0.020668	**n
		22:00-0:59	-4.36E+00	2.916079		-1.52E-02	0.018758		7.54E-03	0.020465		-1.01E-02	0.035966		1.27E-02	0.04113		-4.19E-02	0.022839	* n
		1:00-3:59	1.25E+00	2.833704		-7.33E-03	0.017291		-1.02E-02	0.01827		-4.89E-03	0.033708		-5.22E-03	0.038243		1.06E-02	0.022483	
	1	9:00-13:59	-1.50E+00	2.655551		-1.00E-02	0.032042		-1.28E-02	0.037428		-2.64E-02	0.066895		-5.43E-02	0.099727		3.54E-02	0.055068	
		19:00-21:59	-2.56E-01	2.393167		-1.00E-02	0.017366		-2.48E-03	0.018765		-6.86E-03	0.034804		-1.49E-03	0.038172		-1.12E-02	0.020899	
		22:00-0:59	-1.96E+00	2.963737		2.83E-02	0.018983		2.49E-02	0.020709		3.95E-02	0.036432		4.73E-02	0.041662		-1.25E-02	0.023101	
		1:00-3:59	-2.48E+00	2.865818		2.71E-02	0.017448		3.10E-02	0.018436	* p	4.28E-02	0.034073		5.76E-02	0.038591		-2.57E-02	0.022653	
	2	9:00-13:59	5.28E-01	2.668629		-3.07E-03	0.02913		7.05E-03	0.036203		5.46E-02	0.062168		9.23E-02	0.092341		-5.96E-02	0.050969	
		19:00-21:59	4.63E+00	2.781245	* p	-1.85E-02	0.020624		-2.64E-02	0.022301		-4.88E-02	0.041287		-4.86E-02	0.045229		7.58E-03	0.024843	
		22:00-0:59	6.68E+00	3.433076	* p	-7.03E-02	0.022508	**n	-5.14E-02	0.02457	**n	-1.00E-01	0.043166	**n	-9.81E-02	0.0494	**n	-2.82E-02	0.027448	
		1:00-3:59	5.48E+00	3.316029	* p	-5.19E-02	0.020693	**n	-5.40E-02	0.02185	**n	-8.43E-02	0.040301	**n	-8.67E-02	0.045682	* n	1.08E-03	0.026911	
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Br	0	9:00-13:59	1.69E+01	103.104709		4.66E-02	1.326682		1.01E+00	1.506546		2.32E+00	2.759441		4.03E+00	4.120418		-2.71E+00	2.275638	
		19:00-21:59	-3.20E+01	92.119394		-4.65E-01	0.670042		-8.08E-02	0.722335		-5.61E-01	1.350008		-4.62E-01	1.488962		-1.19E-01	0.804549	
		22:00-0:59	-1.51E+01	114.274291		-4.34E-01	0.738646		-4.40E-01	0.8025		-5.08E-01	1.420017		-1.70E-01	1.627051		3.43E-01	0.884917	
		1:00-3:59	2.52E+01	109.962556		-6.50E-01	0.678707		-7.52E-01	0.71553		-9.65E-01	1.327165		-1.38E+00	1.502879		9.27E-01	0.866453	
	1	9:00-13:59	4.39E+01	105.004513		1.33E+00	1.223943		2.05E+00	1.44351		5.64E+00	2.695429	**p	8.70E+00	4.034241	**p	-4.32E+00	2.228329	* n
		19:00-21:59	1.93E+02	94.448883	**p	-1.00E+00	0.698181		-1.03E+00	0.748963		-2.23E+00	1.413448		-2.08E+00	1.566351		-7.80E-02	0.829986	
		22:00-0:59	2.54E+01	117.084913		-2.09E-01	0.770583		-2.23E-01	0.834146		-6.83E-01	1.484546		-7.03E-01	1.708118		-3.48E-01	0.908146	
		1:00-3:59	3.74E+01	111.738405		-6.38E-01	0.711847		-1.58E-01	0.74819		-3.92E-01	1.397514		2.57E-01	1.578326		-8.24E-01	0.888427	
	2	9:00-13:59	3.95E+01	103.488009		-1.76E+00	1.073314		-1.62E+00	1.322802		-5.88E-01	2.390649		8.93E-01	3.564488		-2.08E+00	1.968451	
		19:00-21:59	9.84E+01	95.072228		-1.89E+00	0.695826	**n	-2.02E+00	0.750821	**n	-3.54E+00	1.400801	**n	-3.29E+00	1.548392	**n	4.63E-01	0.837156	
		22:00-0:59	1.26E+02	117.893832		-1.27E+00	0.766663	* n	-1.14E+00	0.832795		-1.86E+00	1.471909		-1.54E+00	1.690049		1.22E-03	0.921919	
		1:00-3:59	1.09E+02	114.117089		-2.02E+00	0.704256	**n	-2.08E+00	0.744585	**n	-3.36E+00	1.379756	**n	-2.88E+00	1.566206	* n	1.99E-01	0.906323	
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Appendix Table D.5 continued **East Lansing**.

Estimated coefficient and its standard error of single pollutant at lag 0-2 days for 6 outcomes and 4 time periods

				HR			LnSDNN			LnRMSSD			LnLF			LnHF			LF/HF	
Variable	Lag	TimePeriod	Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error	
Ca	0	9:00-13:59	-4.09E+00	2.960121		2.50E-02	0.038013		4.01E-02	0.043141		4.16E-02	0.078495		7.09E-02	0.116986		-4.59E-02	0.064519	
		19:00-21:59	-6.40E+00	2.600503	**n	1.71E-02	0.018976		4.61E-02	0.020491	**p	6.41E-02	0.038095	* p	1.10E-01	0.041682	**p	-6.53E-02	0.022842	**n
		22:00-0:59	-2.05E+00	3.2228		-1.19E-02	0.020658		4.87E-03	0.022559		-3.14E-03	0.039626		2.94E-02	0.045389		-4.98E-02	0.025228	**n
		1:00-3:59	-1.47E-01	3.110097		-5.67E-03	0.019046		-1.90E-04	0.020149		3.80E-03	0.037187		1.23E-02	0.042129		-3.95E-03	0.024606	
	1	9:00-13:59	-3.57E+00	2.899858		-1.39E-02	0.034867		-2.64E-02	0.042021		-3.20E-02	0.072593		-6.23E-02	0.108043		4.37E-02	0.059577	
		19:00-21:59	6.42E+00	2.540702	**p	-2.20E-02	0.018463		-1.99E-02	0.019963		-3.54E-02	0.037041		-4.77E-02	0.040527		2.25E-03	0.022301	
		22:00-0:59	3.33E+00	3.153495		2.72E-02	0.020047		2.53E-02	0.021891		4.31E-02	0.0384		4.36E-02	0.043999		-1.34E-03	0.02472	
		1:00-3:59	-4.71E-01	3.102318		2.33E-02	0.018668		2.34E-02	0.019761		4.23E-02	0.036402		3.62E-02	0.041226		-1.14E-02	0.024486	
	2	9:00-13:59	3.24E+00	2.881409		1.53E-02	0.030251		1.72E-02	0.037649		4.39E-03	0.06647		3.07E-02	0.098739		-4.44E-02	0.054431	
		19:00-21:59	3.30E+00	2.987745		-5.26E-02	0.021867	**n	-4.82E-02	0.023579	**n	-8.31E-02	0.043969	* n	-5.25E-02	0.048618		-1.17E-02	0.026242	
		22:00-0:59	1.30E+01	3.686331	**p	-1.25E-01	0.023936	**n	-1.09E-01	0.026124	**n	-2.17E-01	0.045973	**n	-1.85E-01	0.053189	**n	-5.05E-02	0.028927	* n
		1:00-3:59	3.39E+00	3.574302		-6.23E-02	0.022241	**n	-5.63E-02	0.023516	**n	-1.11E-01	0.043464	**n	-8.00E-02	0.049645		-2.91E-02	0.028405	
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Cr	0	9:00-13:59	-1.83E+02	155.571241		-2.08E+00	1.961973		-1.96E+00	2.288805		-2.49E+00	3.896327		-4.80E+00	5.765634		2.48E+00	3.179017	
		19:00-21:59	-3.87E+00	50.771821		1.15E-02	0.368951		-7.14E-02	0.398079		2.95E-02	0.743123		-2.80E-02	0.818424		-1.00E-01	0.440313	
		22:00-0:59	-9.79E+00	62.926537		2.96E-01	0.403502		-1.20E-01	0.43827		3.63E-02	0.774018		-1.48E-01	0.885409		4.13E-01	0.484074	
		1:00-3:59	-3.50E+01	60.576977		1.67E-01	0.373007		2.01E-01	0.393285		2.36E-01	0.727625		2.21E-01	0.823677		4.32E-02	0.475704	
	1	9:00-13:59	-5.30E+01	57.234772		7.66E-02	0.571881		-1.04E-02	0.70674		1.87E-01	1.297674		8.68E-02	1.932687		1.70E-01	1.06643	
		19:00-21:59	1.34E+01	57.301938		2.49E-01	0.42502		-8.21E-02	0.454029		4.46E-02	0.864063		-3.43E-01	0.959484		2.58E-01	0.497481	
		22:00-0:59	-5.93E+01	70.992791		7.90E-02	0.459587		1.99E-01	0.497751		-6.10E-02	0.887951		1.55E-01	1.019991		-5.16E-01	0.541124	
		1:00-3:59	3.31E+01	66.739648		-1.97E-01	0.425318		8.55E-02	0.448186		-3.28E-01	0.838881		1.31E-01	0.947104		-1.01E+00	0.527053	* n
	2	9:00-13:59	-4.39E+00	56.232321		8.93E-02	0.552324		1.12E-01	0.687627		1.25E-01	1.254904		2.41E-01	1.867824		-2.59E-01	1.030565	
		19:00-21:59	7.84E+01	52.553597		-7.21E-02	0.383711		1.01E-01	0.413616		2.19E-01	0.773499		5.54E-01	0.852606		-8.62E-01	0.457072	* n
		22:00-0:59	-6.73E+00	65.128591		-3.67E-01	0.441152		-1.89E-01	0.479207		-6.95E-01	0.84618		-4.85E-01	0.968203		-1.27E+00	0.501938	**n
		1:00-3:59	-7.78E+01	62.289224		1.07E-01	0.405149		1.10E-01	0.428032		-5.05E-03	0.791868		1.90E-01	0.89659		-9.14E-01	0.49068	* n
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Cu	0	9:00-13:59	-2.46E+02	162.089704		-2.91E-01	2.066856		-1.26E+00	2.407792		-1.68E+00	4.331602		-4.22E+00	6.45579		2.56E+00	3.563696	
		19:00-21:59	-3.34E+02	148.808841	**n	2.31E+00	1.093611	**p	1.71E+00	1.183721		2.67E+00	2.198553		2.22E+00	2.41688		1.07E+00	1.320212	
		22:00-0:59	2.18E+02	185.054264		5.13E-01	1.209079		-6.15E-01	1.313323		2.15E-02	2.314636		-9.13E-01	2.646721		2.41E+00	1.454323	* p
		1:00-3:59	2.33E+02	177.602879		-3.87E-01	1.106951		-5.42E-01	1.166766		-8.21E-01	2.161602		-1.35E+00	2.443171		6.57E-01	1.421946	
	1	9:00-13:59	-2.89E+02	165.667591	* n	1.73E+00	1.994183		1.67E+00	2.332131		3.64E+00	4.369855		5.18E+00	6.541929		-2.44E+00	3.612929	
		19:00-21:59	2.52E+02	156.013896		-1.52E+00	1.157495		-2.00E+00	1.245599		-4.08E+00	2.340012	* n	-4.86E+00	2.584617	* n	1.44E+00	1.380673	
		22:00-0:59	3.89E+02	193.7058	**p	-4.26E-01	1.278209		-4.75E-01	1.385899		-1.31E+00	2.459373		-1.01E+00	2.819208		1.24E-01	1.510765	
		1:00-3:59	5.95E+02	183.875672	**p	-1.79E+00	1.177627		-2.92E+00	1.238711	**n	-3.07E+00	2.311588		-5.14E+00	2.608407	**n	3.24E+00	1.474296	**p
	2	9:00-13:59	2.80E+02	162.962964	* p	-1.14E+00	1.872536		-1.88E+00	2.260774		-3.87E+00	4.097579		-5.95E+00	6.1072		3.04E+00	3.371269	
		19:00-21:59	-1.67E+00	165.27944		-7.93E-01	1.212778		-1.33E+00	1.31723		-2.29E+00	2.429998		-3.41E+00	2.663528		1.94E+00	1.474413	
		22:00-0:59	3.46E+00	205.477843		-6.11E-01	1.337633		-1.35E+00	1.454824		-2.49E+00	2.552822		-2.52E+00	2.914083		1.66E+00	1.630475	
		1:00-3:59	-7.83E+01	198.528351		1.51E+00	1.221048		1.40E+00	1.288799		1.96E+00	2.376086		2.35E+00	2.689502		2.65E-01	1.59699	
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Fe	0	9:00-13:59	-7.60E+00	6.710426		-4.32E-02	0.085669		-4.15E-02	0.098093		-1.32E-01	0.176286		-1.66E-01	0.2626		2.07E-02	0.144919	
		19:00-21:59	-5.80E+00	5.705317		-9.89E-03	0.041362		3.45E-02	0.044748		1.95E-02	0.083162		9.12E-02	0.091335		-8.70E-02	0.050067	* n
		22:00-0:59	5.05E+00	7.07651		-4.70E-02	0.045218		-4.91E-02	0.04929		-8.44E-02	0.086552		-4.48E-02	0.099514		-1.20E-02	0.055256	
		1:00-3:59	3.60E+00	6.878169		-4.12E-02	0.041864		-4.49E-02	0.044264		-7.31E-02	0.081722		-5.82E-02	0.092689		2.10E-02	0.054147	
	1	9:00-13:59	-8.01E+00	6.494758		3.40E-02	0.077363		3.37E-02	0.090879		9.99E-02	0.16609		1.37E-01	0.248094		-7.49E-02	0.136963	
		19:00-21:59	1.77E+01	5.885045	**p	-1.04E-01	0.043059	**n	-9.81E-02	0.046338	**n	-1.94E-01	0.087066	**n	-1.96E-01	0.095974	**n	7.40E-03	0.051553	
		22:00-0:59	2.00E+01	7.289585	**p	-4.58E-02	0.046865		-4.49E-02	0.051093		-9.32E-02	0.090312		-7.62E-02	0.1038		-2.22E-02	0.05656	
		1:00-3:59	6.02E-01	7.098883		-8.85E-03	0.044129		7.38E-03	0.04654		8.78E-03	0.086502		3.63E-02	0.09773		-6.72E-02	0.055875	
	2	9:00-13:59	6.97E+00	6.519114		-4.77E-02	0.07003		-4.96E-02	0.08671		-4.29E-02	0.154921		6.13E-03	0.230331		-8.36E-02	0.12708	
		19:00-21:59	1.96E+01	7.184954	**p	-1.78E-01	0.05208	**n	-1.75E-01	0.05645	**n	-2.81E-01	0.104504	**n	-2.34E-01	0.11526	**n	6.12E-03	0.063292	
		22:00-0:59	3.14E+01	8.914628	**p	-3.09E-01	0.057222	**n	-2.72E-01	0.062525	**n	-5.41E-01	0.10954	**n	-4.84E-01	0.126419	**n	-1.18E-01	0.070009	* n
		1:00-3:59	2.54E+00	8.69806		-1.28E-01	0.053218	**n	-1.17E-01	0.056099	**n	-1.86E-01	0.103329	* n	-1.36E-01	0.117835		-5.43E-02	0.068686	
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K	0	9:00-13:59	-1.46E+01	6.244571	**n	-6.87E-02	0.080471		-7.83E-02	0.091237		-1.94E-01	0.166546		-2.98E-01	0.248369		1.20E-01	0.137195	
		19:00-21:59	-1.27E+01	5.570583	**n	3.20E-02	0.040367		6.83E-02	0.043719		9.17E-02	0.080773		1.57E-01	0.088416	* p	-9.26E-02	0.049042	* n
		22:00-0:59	9.69E+00	6.951799		-3.05E-02	0.044593		-2.85E-02	0.048484		-2.96E-02	0.085095		-7.15E-02	0.098056		1.54E-02	0.054407	
		1:00-3:59	1.53E+01	6.684318	**p	-3.74E-02	0.040743		-6.28E-02	0.04304		-5.58E-02	0.079369		-9.44E-02	0.090013		6.26E-02	0.053119	
	1	9:00-13:59	-6.64E+00	6.260918		6.84E-02	0.076257		5.35E-02	0.088193		1.54E-01	0.163067		1.87E-01	0.243751		-6.42E-02	0.134674	
		19:00-21:59	2.15E+01	5.346339	**p	-1.25E-01	0.038934	**n	-1.37E-01	0.042109	**n	-2.50E-01	0.078042	**n	-2.71E-01	0.085584	**n	5.96E-02	0.047188	
		22:00-0:59	1.97E+01	6.671314	**p	-4.22E-02	0.042985		-7.58E-02	0.04673		-1.06E-01	0.082185		-1.21E-01	0.09401		6.65E-02	0.052314	
		1:00-3:59	2.07E+01	6.44594	**p	-6.36E-02	0.039537		-9.62E-02	0.041756	**n	-1.16E-01	0.077178		-1.56E-01	0.087449	* n	6.65E-02	0.051371	
	2	9:00-13:59	1.23E+01	5.958713	**p	-6.87E-02	0.066898		-6.06E-02	0.083565		-7.34E-02	0.147088		-5.69E-02	0.218657		-3.13E-02	0.120748	
		19:00-21:59	2.38E+01	8.260329	**p	-1.46E-01	0.060715	**n	-1.49E-01	0.065732	**n	-2.47E-01	0.121529	**n	-1.91E-01	0.133611		2.93E-02	0.073706	
		22:00-0:59	3.07E+01	10.307064	**p	-1.89E-01	0.067076	**n	-1.94E-01	0.07296	**n	-3.59E-01	0.128114	**n	-3.17E-01	0.14717	**n	3.68E-02	0.081716	
		1:00-3:59	3.96E+01	9.952574	**p	-1.53E-01	0.061634	**n	-1.62E-01	0.06505	**n	-1.50E-01	0.119955		-1.51E-01	0.136565		1.13E-01	0.080196	
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Mg	0	9:00-13:59	-5.23E+00	5.112855		1.65E-02	0.063655		5.77E-02	0.074867		8.55E-02	0.132311		1.45E-01	0.196732		-9.03E-02	0.108618	
		19:00-21:59	-1.28E+01	4.650729	**n	4.68E-02	0.034052		5.29E-02	0.036889		8.39E-02	0.068173		1.18E-01	0.074808		-2.47E-02	0.041161	
		22:00-0:59	-1.26E+01	5.796556	**n	3.50E-02	0.037454		3.59E-02	0.040744		3.75E-02	0.07162		6.50E-02	0.081704		-2.13E-02	0.045477	
		1:00-3:59	-8.76E+00	5.496711		2.17E-02	0.033955		4.21E-02	0.035679		6.01E-02	0.065758		1.02E-01	0.074469		-2.46E-02	0.043662	
	1	9:00-13:59	-9.71E+00	5.786128	* n	9.65E-02	0.071292		8.58E-02	0.081555		1.94E-01	0.150747		2.75E-01	0.225096		-1.03E-01	0.124323	
		19:00-21:59	-3.68E+00	5.002692		2.79E-02	0.036987		1.27E-02	0.039802		1.21E-02	0.074563		6.21E-03	0.081889		3.81E-03	0.044114	
		22:00-0:59	-5.44E+00	6.231478		4.00E-02	0.04069		4.73E-02	0.044204		4.82E-02	0.078334		4.22E-02	0.089584		-4.54E-02	0.048335	
		1:00-3:59	1.40E+00	5.957543		1.85E-02	0.03744		2.65E-02	0.039541		3.60E-02	0.073351		4.70E-02	0.082532		-2.83E-02	0.047331	
	2	9:00-13:59	-3.70E+00	5.214874		-2.04E-02	0.058637		-2.45E-02	0.07098		-4.25E-03	0.125075		3.20E-02	0.185995		-6.16E-02	0.102691	
		19:00-21:59	-1.01E+01	4.645751	**n	3.40E-02	0.033971		2.52E-02	0.03689		4.42E-02	0.067852		-1.19E-02	0.074803		1.01E-02	0.041266	
		22:00-0:59	-2.33E+00	5.791291		3.34E-02	0.037384		2.01E-02	0.040722		3.69E-02	0.07139		-1.36E-02	0.082024		-3.21E-03	0.045741	
		1:00-3:59	-6.88E+00	5.66618		1.55E-02	0.034376		3.71E-02	0.036372		4.83E-02	0.066669		2.23E-02	0.076206		-6.50E-02	0.045136	
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Appendix Table D.5 continued **East Lansing**.

Estimated coefficient and its standard error of single pollutant at lag 0-2 days for 6 outcomes and 4 time periods

			HR		LnSDNN		LnRMSSD		LnLF		LnHF		LF/HF	
Variable	Lag	TimePeriod	Value	Std.Error	Value	Std.Error	Value	Std.Error	Value	Std.Error	Value	Std.Error	Value	Std.Error
Mn	0	9:00-13:59	-5.31E+01	75.555905	-3.90E-01	0.974215	-1.16E-01	1.121866	1.59E-01	1.998837	5.25E-01	2.980484	-4.29E-01	1.645367
		19:00-21:59	-1.69E+01	67.161799	-5.58E-02	0.490318	2.39E-01	0.530217	2.65E-01	0.983912	5.30E-01	1.081148	-3.20E-01	0.590494
		22:00-0:59	-2.89E+01	83.093557	6.22E-03	0.538951	-1.04E-01	0.585952	-3.28E-02	1.032753	1.29E-01	1.180509	2.83E-01	0.652041
		1:00-3:59	2.85E+01	80.088527	-1.95E-01	0.495197	-6.52E-01	0.520714	-4.53E-01	0.963044	-1.08E+00	1.089119	1.29E+00	0.635982 **p
	1	9:00-13:59	-1.04E+01	74.377905	6.88E-01	0.865553	6.42E-01	1.036792	2.37E+00	1.830726	3.34E+00	2.733053	-1.37E+00	1.508907
		19:00-21:59	4.82E+01	67.455883	-2.46E-01	0.501592	-4.91E-01	0.540012	-1.22E+00	1.011298	-1.20E+00	1.117421	4.88E-01	0.599041
		22:00-0:59	4.25E+01	83.58179	-2.80E-02	0.550987	-7.47E-02	0.598279	-2.96E-01	1.060308	-2.77E-01	1.214435	-2.48E-01	0.658975
		1:00-3:59	2.62E+01	80.155683	-8.54E-02	0.508606	-2.46E-02	0.535733	-4.41E-01	0.997648	1.53E-01	1.127481	-5.78E-01	0.644089
	2	9:00-13:59	4.10E+01	75.357438	-1.30E+00	0.817864	-1.29E+00	1.008206	-7.89E-01	1.745119	-4.69E-02	2.597467	-1.09E+00	1.433744
		19:00-21:59	-3.79E+01	71.513356	-6.56E-01	0.527222	-6.94E-01	0.569417	-1.01E+00	1.059261	-8.92E-01	1.16625	2.13E-01	0.633381
		22:00-0:59	1.25E+02	87.195937	-9.73E-01	0.580253 * n	-8.04E-01	0.630735	-1.09E+00	1.113334	-1.42E+00	1.276739	-7.02E-02	0.698441
		1:00-3:59	8.44E+01	84.128958	-9.96E-01	0.534196 * n	-1.29E+00	0.563137 **n	-1.68E+00	1.043427	-1.89E+00	1.180933	4.39E-01	0.683185
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Na	0	9:00-13:59	-7.48E+00	4.564518	-9.97E-02	0.058048 * n	-1.22E-01	0.065826 * n	-1.79E-01	0.119776	-2.78E-01	0.178522	1.15E-01	0.098704
		19:00-21:59	-7.32E+00	3.943002 * n	5.58E-02	0.028822 * p	7.06E-02	0.03127 **p	1.04E-01	0.058081 * p	7.32E-02	0.064707	-3.43E-02	0.03512
		22:00-0:59	-1.55E+00	4.951955	1.77E-02	0.032062	2.57E-02	0.034792	3.47E-02	0.061304	1.63E-02	0.070923	-1.12E-02	0.038775
		1:00-3:59	-3.00E+00	4.812115	5.39E-02	0.029507 * p	6.26E-02	0.031162 **p	9.70E-02	0.057554 * p	6.16E-02	0.065959	-4.17E-02	0.038104
	1	9:00-13:59	3.05E+00	4.467606	1.32E-01	0.054417 **p	1.80E-01	0.063814 **p	2.79E-01	0.111692 **p	4.12E-01	0.166033 **p	-2.01E-01	0.091789 **n
		19:00-21:59	1.41E+01	3.863797 **p	-9.30E-02	0.028087 **n	-7.15E-02	0.030548 **n	-1.45E-01	0.056497 **n	-1.24E-01	0.061964 **n	-2.63E-02	0.034428
		22:00-0:59	4.28E+00	4.864402	-1.57E-02	0.031223	-1.69E-02	0.033936	-2.68E-02	0.059652	-5.05E-03	0.067958	-2.82E-02	0.038182
		1:00-3:59	5.42E+00	4.806835	-2.48E-02	0.028986	-2.39E-02	0.030672	-7.64E-03	0.05654	-8.69E-03	0.063816	5.99E-03	0.037936
	2	9:00-13:59	3.98E+00	4.57948	-1.06E-01	0.052687 **n	-1.20E-01	0.064933 * n	-1.16E-01	0.112112	-1.31E-01	0.166477	1.10E-02	0.092029
		19:00-21:59	2.36E+01	5.033535 **p	-1.18E-01	0.037331 **n	-1.09E-01	0.040347 **n	-2.00E-01	0.075501 **n	-1.83E-01	0.083575 **n	-7.83E-03	0.045117
		22:00-0:59	1.68E+01	6.322501 **p	-1.08E-01	0.041401 **n	-9.86E-02	0.044957 **n	-1.84E-01	0.079556 **n	-1.41E-01	0.091497	-2.77E-02	0.049581
		1:00-3:59	-7.75E+00	6.072571	-2.71E-02	0.038259	-8.54E-03	0.040288	-1.94E-02	0.074828	2.04E-02	0.084756	-6.45E-02	0.048389
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Ni	0	9:00-13:59	-7.18E+01	190.029026	-1.28E+00	2.413759	-9.04E-01	2.859786	-6.04E-01	4.956078	-1.36E+00	7.37406	1.66E+00	4.067923
		19:00-21:59	1.68E+01	156.518209	2.15E-01	1.146279	6.57E-01	1.239972	3.75E-01	2.305233	1.32E+00	2.535706	-1.54E+00	1.37548
		22:00-0:59	-1.58E+02	193.111536	-6.24E-01	1.257903	-3.77E-01	1.367592	-8.82E-01	2.413385	-5.65E-01	2.760278	-4.31E-01	1.519181
		1:00-3:59	-1.41E+02	188.202366	7.32E-01	1.169308	-3.01E-02	1.231762	1.56E-01	2.281639	-3.60E-01	2.581834	1.38E+00	1.499824
	1	9:00-13:59	-9.97E+01	188.689646	-3.77E-01	2.190936	6.96E-01	2.628706	-1.01E+00	4.816928	-1.39E+00	7.210591	-2.44E-01	3.980506
		19:00-21:59	-2.43E+02	167.786853	1.88E+00	1.258788	1.47E+00	1.350234	2.42E+00	2.552314	2.02E+00	2.827484	4.18E-01	1.486905
		22:00-0:59	-4.79E+02	207.858577 **n	2.40E+00	1.383175 * p	2.77E+00	1.49937 * p	4.04E+00	2.671717	4.77E+00	3.064025	-1.24E+00	1.625039
		1:00-3:59	-1.72E+02	197.249296	1.56E+00	1.286487	1.82E+00	1.35055	2.21E+00	2.530351	3.31E+00	2.853799	-1.92E+00	1.585451
	2	9:00-13:59	8.04E+01	176.124322	-1.90E+00	1.927239	-1.75E+00	2.32417	-8.95E-01	4.200572	-2.92E-01	6.267541	-9.96E-01	3.458618
		19:00-21:59	4.98E+01	158.173216	7.62E-02	1.16338	7.89E-01	1.257905	1.22E+00	2.34052	2.51E+00	2.574928	-2.18E+00	1.394784
		22:00-0:59	-1.79E+00	194.125696	-2.70E-01	1.2885	5.20E-01	1.400011	1.31E+00	2.471772	1.41E+00	2.829166	-2.35E+00	1.539478
		1:00-3:59	1.05E+02	186.866432	-1.13E+00	1.186882	-1.83E+00	1.249305	-2.12E+00	2.315988	-2.92E+00	2.618002	5.62E-01	1.504116
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P	0	9:00-13:59	-7.19E+00	5.069733	-9.78E-02	0.062778	-1.09E-01	0.073082	-1.78E-01	0.132575	-2.58E-01	0.19759	1.10E-01	0.109179
		19:00-21:59	1.37E+00	4.415852	-3.69E-03	0.032393	-1.79E-02	0.034919	-4.27E-02	0.065308	-4.56E-02	0.072038	3.09E-02	0.038643
		22:00-0:59	-3.04E-01	5.466435	-6.97E-03	0.035638	-4.72E-03	0.038689	8.48E-04	0.068488	-3.30E-03	0.078446	2.67E-02	0.042558
		1:00-3:59	4.54E+00	5.252686	-4.02E-02	0.032887	-4.14E-02	0.034699	-6.35E-02	0.064455	-6.58E-02	0.072939	1.40E-02	0.041687
	1	9:00-13:59	9.83E+00	4.774794 **p	6.78E-02	0.05684	9.53E-02	0.066654	5.09E-02	0.124084	8.46E-02	0.185458	-2.33E-02	0.102508
		19:00-21:59	-2.11E+00	4.574723	-1.99E-02	0.033682	6.98E-03	0.036074	1.49E-03	0.068345	3.68E-02	0.075806	-4.05E-02	0.039699
		22:00-0:59	-1.84E-01	5.663455	-1.34E-02	0.037058	-1.87E-03	0.040127	-4.72E-03	0.071587	2.44E-02	0.082246	-1.19E-02	0.043413
		1:00-3:59	4.21E+00	5.388882	-3.72E-02	0.034451	-3.29E-02	0.036232	-3.01E-02	0.067892	-2.16E-02	0.076604	1.74E-02	0.042566
	2	9:00-13:59	7.65E+00	4.812456	-1.85E-01	0.053231 **n	-2.00E-01	0.064005 **n	-2.02E-01	0.115126 * n	-2.99E-01	0.171312 * n	1.43E-01	0.094642
		19:00-21:59	-2.78E+00	4.446585	1.91E-02	0.032479	-5.57E-04	0.035048	8.52E-03	0.065414	9.12E-05	0.072052	4.02E-02	0.038822
		22:00-0:59	6.85E-01	5.504341	-5.38E-03	0.035781	-1.32E-02	0.038836	-2.41E-02	0.068665	-1.05E-02	0.078511	1.67E-02	0.042809
		1:00-3:59	-1.69E+00	5.295287	-2.33E-02	0.032991	-1.42E-02	0.0348	-1.25E-02	0.064519	-9.24E-05	0.072965	8.13E-03	0.041986
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Pb	0	9:00-13:59	-5.87E+01	56.645627	-9.06E-01	0.713704	-1.41E+00	0.838295 * n	-1.10E+00	1.450671	-2.29E+00	2.151533	1.77E+00	1.184892
		19:00-21:59	-2.28E+00	51.161704	1.74E-01	0.370403	-1.28E-01	0.401954	-2.85E-01	0.743261	-5.66E-01	0.815914	6.33E-01	0.448254
		22:00-0:59	7.38E+01	63.156073	5.37E-02	0.407088	-2.27E-01	0.443315	-8.65E-02	0.778443	-3.20E-01	0.890604	5.43E-01	0.49581
		1:00-3:59	-9.48E+01	61.005242	1.25E-01	0.371779	3.84E-01	0.393819	4.09E-01	0.727117	7.88E-01	0.824162	-7.05E-01	0.484544
	1	9:00-13:59	-8.79E+01	61.195206	1.02E+00	0.692972	1.20E+00	0.830135	2.02E+00	1.511324	3.39E+00	2.250043	-1.89E+00	1.239846
		19:00-21:59	4.06E+01	53.966804	-5.30E-01	0.394888	-6.79E-01	0.426053	-1.08E+00	0.796482	-1.19E+00	0.877376	5.33E-01	0.472438
		22:00-0:59	2.25E+02	66.501059 **p	-1.02E+00	0.433642 **n	-9.98E-01	0.471402 **n	-1.86E+00	0.833202 **n	-2.00E+00	0.953621 **n	1.27E-01	0.519147
		1:00-3:59	1.13E+02	64.531151 * p	-8.00E-01	0.402828 **n	-7.88E-01	0.425721 * n	-9.50E-01	0.790532	-1.09E+00	0.893471	3.22E-01	0.513663
	2	9:00-13:59	6.67E+01	60.728284	-2.32E-01	0.655218	-7.70E-01	0.803229	5.44E-02	1.408469	3.05E-02	2.08816	2.86E-01	1.149918
		19:00-21:59	-6.45E+01	51.673497	4.02E-01	0.373296	1.85E-01	0.405565	3.81E-01	0.748287	-8.60E-03	0.820488	5.15E-01	0.452793
		22:00-0:59	4.66E+01	63.677075	1.57E-01	0.409253	8.68E-03	0.446113	-1.33E-02	0.782143	-1.35E-01	0.893244	2.42E-01	0.501478
		1:00-3:59	-9.34E+01	61.757218	4.09E-01	0.375201	3.38E-01	0.396622	5.26E-01	0.730919	4.24E-01	0.828346	9.85E-02	0.491342
--	--	--	NA	NA --	NA	NA --	NA	NA --	NA	NA --	NA	NA --	NA	NA --
S	0	9:00-13:59	-1.56E-01	0.172868	-3.83E-03	0.002167 * n	-5.30E-03	0.002505 **n	-6.84E-03	0.004598	-1.01E-02	0.006868	4.54E-03	0.003798
		19:00-21:59	1.92E-01	0.150674	-7.86E-04	0.001101	-1.52E-03	0.001187	-3.04E-03	0.002218	-3.57E-03	0.002447	1.80E-03	0.001315
		22:00-0:59	3.72E-01	0.186414 **p	-1.32E-03	0.001212	-2.32E-03	0.001314 * n	-2.52E-03	0.002327	-3.70E-03	0.002665	3.16E-03	0.001446 **p
		1:00-3:59	2.32E-01	0.177516	-1.89E-03	0.001105 * n	-2.68E-03	0.001161 **n	-4.49E-03	0.002155 **n	-5.17E-03	0.002435 **n	1.57E-03	0.001402
	1	9:00-13:59	1.75E-01	0.162101	3.97E-03	0.001853 **p	4.76E-03	0.002225 **p	6.16E-03	0.004004	8.72E-03	0.005969	-3.26E-03	0.003301
		19:00-21:59	1.77E-01	0.147889	-1.13E-03	0.001076	-5.66E-04	0.00116	-1.57E-03	0.002168	-1.02E-03	0.002394	-8.08E-04	0.001286
		22:00-0:59	1.67E-01	0.183001	-4.47E-04	0.001181	-2.62E-04	0.001282	-2.65E-04	0.002272	-2.32E-04	0.002602	9.13E-05	0.001417
		1:00-3:59	9.01E-02	0.177421	-8.42E-04	0.001093	-7.79E-04	0.001152	-6.07E-04	0.002142	-7.41E-04	0.00242	2.53E-04	0.001395
	2	9:00-13:59	3.67E-01	0.161254 **p	-6.19E-03	0.001749 **n	-6.60E-03	0.002116 **n	-7.41E-03	0.003847 * n	-1.00E-02	0.005731 * n	4.12E-03	0.003169
		19:00-21:59	8.44E-03	0.154964	4.30E-05	0.001129	-8.09E-04	0.001218	-8.48E-04	0.002272	-1.04E-03	0.002506	2.07E-03	0.001351
		22:00-0:59	9.01E-02	0.191749	-3.49E-04	0.001243	-9.56E-04	0.001349	-1.50E-03	0.002386	-1.08E-03	0.002731	1.34E-03	0.001487
		1:00-3:59	1.06E-01	0.184703	-1.21E-03	0.001145	-1.62E-03	0.001206	-2.02E-03	0.002236	-1.95E-03	0.002531	1.77E-03	0.001457
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Appendix Table D.5 continued **East Lansing**.

Estimated coefficient and its standard error of single pollutant at lag 0-2 days for 6 outcomes and 4 time periods

				HR			LnSDNN			LnRMSSD			LnLF			LnHF			LF/HF	
Variable	Lag	TimePeriod	Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error		Value	Std.Error	
Se	0	9:00-13:59	-2.58E+01	85.126746		6.90E-02	1.077266		3.46E-02	1.257916		1.54E+00	2.255893		2.37E+00	3.364371		-8.79E-01	1.8588	
		19:00-21:59	1.29E+02	73.650174	* p	-8.15E-01	0.53877		-7.92E-01	0.582533		-1.48E+00	1.082431		-1.69E+00	1.190002		4.38E-01	0.648023	
		22:00-0:59	9.38E+01	91.26319		-9.73E-01	0.592051		-7.94E-01	0.643759		-1.52E+00	1.13459		-1.16E+00	1.299195		-4.53E-02	0.715975	
		1:00-3:59	9.76E+01	89.037437		-8.24E-01	0.551286		-1.35E+00	0.581104	**n	-2.02E+00	1.076438	* n	-2.52E+00	1.217333	**n	1.17E+00	0.707363	* p
	1	9:00-13:59	8.68E+01	88.61296		8.56E-01	1.031403		1.70E+00	1.23557		3.81E+00	2.259959	* p	5.81E+00	3.379416	* p	-2.89E+00	1.867446	
		19:00-21:59	1.96E+01	78.261644		-2.66E-01	0.586705		-2.55E-01	0.627553		-8.15E-01	1.191633		-4.23E-01	1.323916		-1.46E-01	0.691169	
		22:00-0:59	3.50E+01	97.08212		2.75E-01	0.645215		1.53E-01	0.699127		4.05E-01	1.248499		3.09E-01	1.439905		2.86E-02	0.754867	
		1:00-3:59	6.98E+01	92.269851		-1.03E-01	0.600891		-2.33E-01	0.630907		-4.69E-01	1.18461		-2.61E-01	1.33648		3.48E-01	0.739391	
	2	9:00-13:59	5.17E+01	86.127059		-2.28E+00	0.908503	**n	-2.49E+00	1.120479	**n	-2.46E+00	1.971111		-2.79E+00	2.933203		6.87E-01	1.620344	
		19:00-21:59	-5.17E+00	75.467329		-5.90E-02	0.555177		-4.41E-01	0.598761		-5.05E-01	1.118274		-8.86E-01	1.23257		7.72E-01	0.664533	
		22:00-0:59	2.88E+00	92.938445		1.13E-01	0.609264		2.48E-01	0.661873		6.51E-01	1.170062		5.13E-01	1.341776		8.09E-02	0.732245	
		1:00-3:59	3.19E+01	89.703204		-5.02E-01	0.562535		-4.68E-01	0.592492		-6.82E-01	1.099402		-5.11E-01	1.242997		-3.14E-01	0.718604	
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
Si	0	9:00-13:59	-2.13E+00	1.563778		-5.05E-03	0.020003		2.06E-03	0.022905		-5.72E-03	0.040882		-4.31E-03	0.06085		-1.19E-02	0.033585	
		19:00-21:59	-3.42E+00	1.354592	**n	8.49E-03	0.009816		2.05E-02	0.010641	* p	2.59E-02	0.01964		4.36E-02	0.021504	**p	-2.36E-02	0.011949	**n
		22:00-0:59	-9.67E-01	1.681652		8.61E-04	0.010703		4.17E-03	0.011656		5.98E-03	0.020411		1.68E-02	0.023388		-8.83E-03	0.013254	
		1:00-3:59	6.00E-01	1.625698		-1.64E-03	0.00979		-1.64E-03	0.01036		-7.11E-04	0.019032		1.02E-03	0.021628		5.26E-03	0.012845	
	1	9:00-13:59	-2.58E+00	1.533915	* n	1.09E-02	0.018653		8.81E-03	0.021708		2.42E-02	0.039232		3.14E-02	0.058511		-1.37E-02	0.032301	
		19:00-21:59	2.59E+00	1.308215	**p	-1.69E-02	0.009467	* n	-1.30E-02	0.010252		-2.70E-02	0.018967		-2.63E-02	0.020772		-5.54E-03	0.011504	
		22:00-0:59	2.15E+00	1.625442		1.78E-03	0.010306		3.26E-03	0.01122		1.75E-03	0.019673		6.13E-03	0.022515		-9.47E-03	0.012756	
		1:00-3:59	1.05E+00	1.587926		-8.74E-04	0.009545		-1.00E-03	0.010092		3.27E-03	0.01857		8.08E-04	0.021051		-2.62E-03	0.012499	
	2	9:00-13:59	1.83E+00	1.478255		-1.39E-02	0.016393		-1.32E-02	0.020368		-2.61E-02	0.035932		-2.64E-02	0.053381		-5.99E-03	0.029457	
		19:00-21:59	4.18E+00	1.88455	**p	-3.86E-02	0.013702	**n	-4.11E-02	0.014849	**n	-6.80E-02	0.027427	**n	-6.17E-02	0.030117	**n	5.96E-03	0.016667	
		22:00-0:59	8.77E+00	2.331893	**p	-7.87E-02	0.014998	**n	-7.90E-02	0.016338	**n	-1.46E-01	0.028623	**n	-1.43E-01	0.032855	**n	-7.35E-03	0.018475	
		1:00-3:59	1.22E+00	2.279825		-3.49E-02	0.013903	**n	-3.66E-02	0.014697	**n	-5.87E-02	0.027002	**n	-5.36E-02	0.030752	* n	-5.91E-03	0.018118	
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
Ti	0	9:00-13:59	3.41E+01	64.444476		1.06E+00	0.815788		7.84E-01	0.954849		9.94E-01	1.689997		1.51E+00	2.516562		-8.29E-01	1.389154	
		19:00-21:59	-3.89E+01	56.431821		-3.55E-02	0.414224		1.88E-01	0.447681		-7.22E-02	0.83321		4.73E-01	0.917402		-4.99E-01	0.501385	
		22:00-0:59	4.88E+01	70.164723		-5.72E-01	0.455236		-2.84E-01	0.495434		-9.12E-01	0.872665		-2.44E-01	1.000542		-8.16E-01	0.551855	
		1:00-3:59	2.60E+01	67.773925		-1.84E-01	0.420424		-3.36E-01	0.443902		-7.61E-01	0.820409		-4.92E-01	0.929618		1.83E-01	0.539464	
	1	9:00-13:59	-5.25E+01	65.245511		1.23E-01	0.775937		-9.49E-03	0.919679		3.99E-01	1.679267		5.09E-01	2.508614		-4.95E-01	1.385232	
		19:00-21:59	1.52E+02	60.104416	**p	-6.88E-01	0.444009		-8.48E-01	0.476464	* n	-1.63E+00	0.899278	* n	-1.52E+00	0.997706		3.68E-01	0.529414	
		22:00-0:59	2.03E+02	74.485336	**p	-5.53E-01	0.487358		-8.66E-01	0.52902		-1.43E+00	0.939837		-1.39E+00	1.081946		4.76E-01	0.577926	
		1:00-3:59	5.31E+01	73.878675		-6.32E-01	0.46888		-6.01E-01	0.493853		-9.57E-01	0.919394		-7.15E-01	1.041728		-2.77E-02	0.585898	
	2	9:00-13:59	8.39E+01	64.08881		-5.15E-01	0.702948		-5.92E-01	0.854457		-1.35E+00	1.5481		-1.49E+00	2.30558		-1.09E-01	1.27271	
		19:00-21:59	2.59E+02	60.928818	**p	-1.78E+00	0.444667	**n	-1.81E+00	0.48167	**n	-3.31E+00	0.89253	**n	-3.12E+00	0.98359	**n	2.21E-01	0.540827	
		22:00-0:59	2.68E+02	75.662775	**p	-2.13E+00	0.490539	**n	-2.11E+00	0.534289	**n	-4.00E+00	0.93878	**n	-3.98E+00	1.076556	**n	-1.85E-01	0.596877	
		1:00-3:59	7.58E+01	73.858341		-7.10E-01	0.455809		-8.52E-01	0.481534	* n	-1.65E+00	0.887734	* n	-1.38E+00	1.009205		-1.11E-01	0.5876	
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
V	0	9:00-13:59	7.35E+01	92.658328		5.32E-01	1.170548		1.17E+00	1.380326		3.27E+00	2.450706		5.19E+00	3.652427		-2.09E+00	2.016243	
		19:00-21:59	2.00E+02	84.819172	**p	-9.77E-01	0.624059		-7.81E-01	0.674446		-1.50E+00	1.256611		-1.05E+00	1.385988		-4.06E-01	0.749444	
		22:00-0:59	1.08E+02	104.9948		-1.34E+00	0.685323	* n	-7.51E-01	0.746396		-1.91E+00	1.317202		-9.47E-01	1.51085		-1.04E+00	0.824305	
		1:00-3:59	-9.93E+01	101.484862		-1.20E-01	0.636499		-4.24E-01	0.669491		-6.96E-01	1.245468		-7.03E-01	1.410028		6.87E-01	0.81157	
	1	9:00-13:59	8.88E+00	102.071642		-2.10E-01	1.225425		-1.82E-01	1.45667		2.06E+00	2.737877		3.21E+00	4.102902		-1.33E+00	2.266135	
		19:00-21:59	8.83E+01	94.040914		-1.54E-01	0.702864		-2.14E-01	0.751749		-5.52E-01	1.428979		-5.24E-01	1.587691		-3.81E-01	0.826962	
		22:00-0:59	-8.67E+00	116.241103		-1.59E-01	0.773044		-3.60E-01	0.837994		-7.27E-01	1.496736		-8.24E-01	1.722437		9.64E-02	0.898936	
		1:00-3:59	-2.53E+02	110.406243	**n	6.68E-01	0.721542		9.18E-01	0.756157		6.67E-01	1.420622		1.26E+00	1.602049		-1.18E+00	0.886148	
	2	9:00-13:59	7.65E+01	98.455151		-7.90E-01	1.062748		-3.79E-01	1.305362		3.45E-01	2.303195		1.65E+00	3.429543		-1.67E+00	1.893041	
		19:00-21:59	3.15E+01	87.769423		-4.96E-01	0.647586		-2.60E-01	0.699957		-3.76E-01	1.303953		-1.32E-01	1.436641		-4.42E-01	0.777944	
		22:00-0:59	8.36E+01	108.417723		-5.00E-01	0.71092		-5.06E-02	0.773606		2.26E-01	1.365023		3.20E-01	1.56319		-5.06E-01	0.85602	
		1:00-3:59	8.67E+01	104.513055		-1.23E+00	0.654023	* n	-1.49E+00	0.688724	**n	-2.21E+00	1.278547	* n	-2.60E+00	1.445767	* n	3.98E-01	0.840948	
--	--	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA	--
Zn	0	9:00-13:59	-6.18E+01	34.740987	* n	-3.19E-01	0.445307		-7.14E-01	0.506904		-7.33E-01	0.921615		-1.19E+00	1.373526		5.28E-01	0.757957	
		19:00-21:59	1.73E+00	31.402289		8.28E-02	0.227249		-1.42E-01	0.245598		-2.54E-01	0.456511		-5.52E-01	0.502351		5.95E-01	0.272826	**p
		22:00-0:59	9.41E+01	38.753948	**p	-2.95E-01	0.251249		-4.81E-01	0.271747	* n	-6.92E-01	0.479571		-8.84E-01	0.548361		4.84E-01	0.301026	
		1:00-3:59	2.65E+01	37.436009		-1.39E-01	0.23125		-1.07E-01	0.243136		-3.84E-01	0.44956		-2.57E-01	0.509045		-1.54E-01	0.295159	
	1	9:00-13:59	-8.75E+01	36.406962	**n	3.68E-01	0.434702		4.81E-01	0.501477		1.01E+00	0.960505		1.55E+00	1.43847		-9.53E-01	0.794271	
		19:00-21:59	2.80E+01	35.110518		-4.11E-01	0.258176		-5.55E-01	0.277136	**n	-1.08E+00	0.521887	**n	-1.14E+00	0.577625	**n	4.17E-01	0.30581	
		22:00-0:59	1.24E+02	43.294306	**p	-3.36E-01	0.284132		-3.08E-01	0.307819		-5.27E-01	0.547445		-6.64E-01	0.631279		9.34E-02	0.334578	
		1:00-3:59	1.02E+02	41.095431	**p	-4.05E-01	0.262561		-5.47E-01	0.276136	**n	-6.83E-01	0.515104		-8.43E-01	0.582292		4.13E-01	0.325738	
	2	9:00-13:59	9.51E+00	34.442366		-2.43E-01	0.381709		-3.93E-01	0.462501		-4.88E-01	0.848291		-7.23E-01	1.264319		3.75E-01	0.697695	
		19:00-21:59	4.52E+01	35.403762		-4.52E-01	0.256741	* n	-6.07E-01	0.277985	**n	-9.61E-01	0.514841	* n	-1.13E+00	0.566395	**n	6.65E-01	0.309343	**p
		22:00-0:59	7.13E+01	43.727579		-3.17E-01	0.282995		-5.05E-01	0.307267		-7.31E-01	0.541024		-7.70E-01	0.618431		5.98E-01	0.342031	* p
		1:00-3:59	4.95E+01	42.196284		-3.33E-02	0.258682		-2.26E-01	0.273064		-3.20E-02	0.503759		-1.82E-01	0.571434		6.21E-01	0.333937	* p