



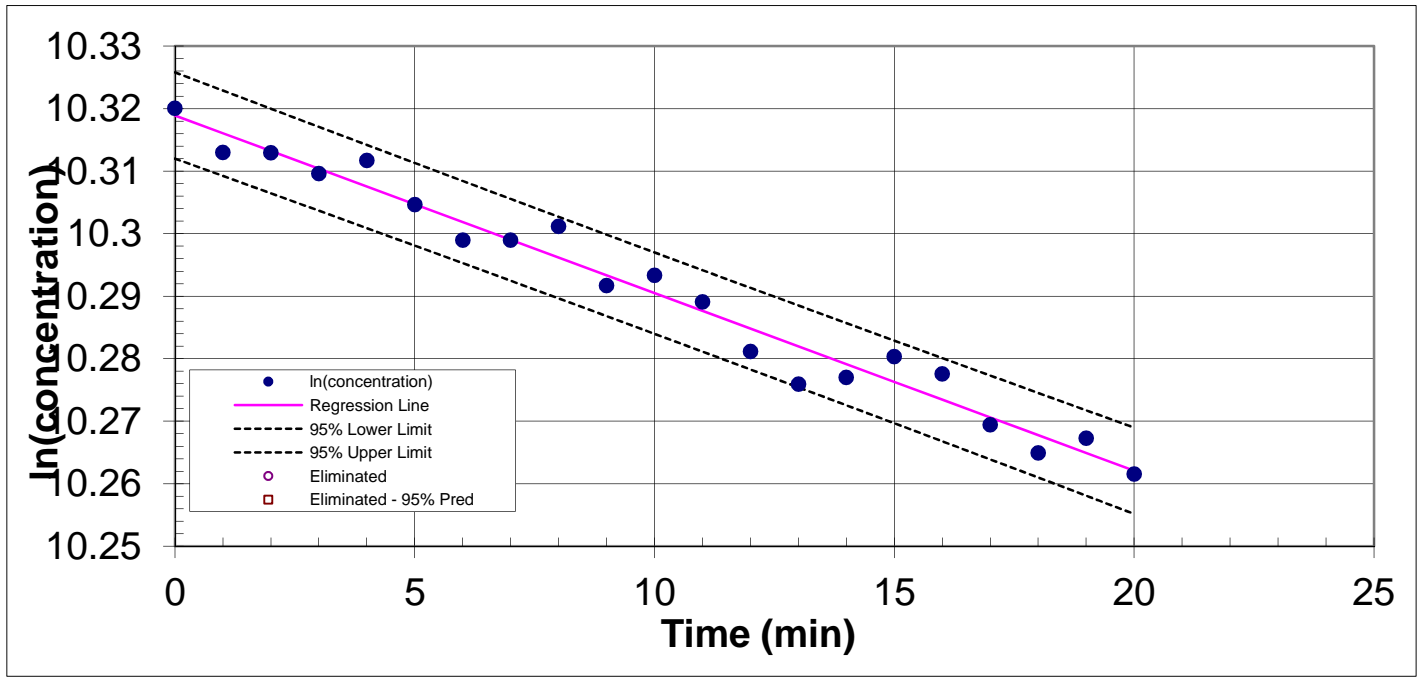
Test By: CK
 Reviewed By: LSB

Order Number G101659992
 Date 10/06/14 20:31:04

AC-1 Air Cleaner Testing Facility

Control Number 1409180907-003
 Test Number WACP450

Smoke Natural



TIME(MIN)	Cti	ln(Cti)	TIME(MIN)	Cti	LN(Cti)
0.00	30,334.38	10.32	11.00	29,409.33	10.29
1.00	30,121.10	10.31	12.00	29,177.44	10.28
2.00	30,119.84	10.31	13.00	29,025.37	10.28
3.00	30,020.46	10.31	14.00	29,056.92	10.28
4.00	30,082.61	10.31	15.00	29,153.15	10.28
5.00	29,870.91	10.30	16.00	29,073.01	10.28
6.00	29,702.12	10.30	17.00	28,837.65	10.27
7.00	29,701.49	10.30	18.00	28,707.66	10.26
8.00	29,767.11	10.30	19.00	28,775.49	10.27
9.00	29,486.63	10.29	20.00	28,610.49	10.26
10.00	29,535.53	10.29			

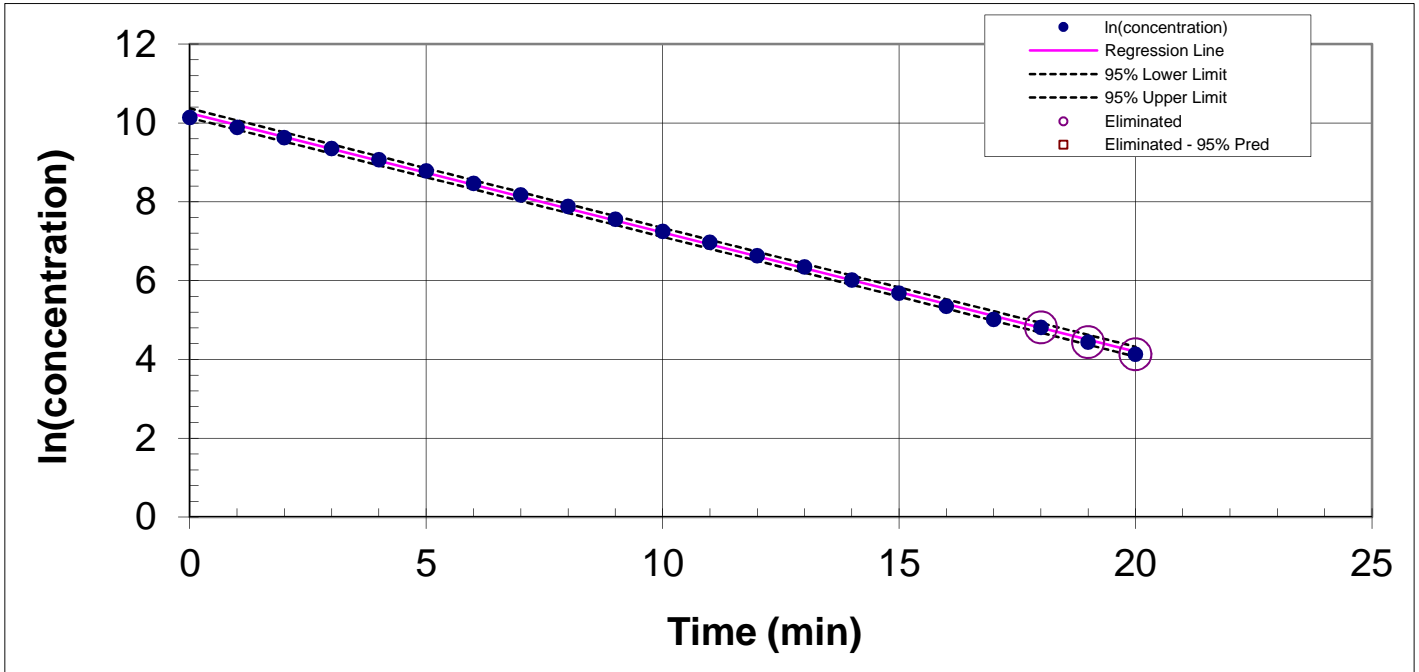
Quantity	Measured	Lower Limit	Upper Limit	Acceptable
Decay Constant	0.00284	-	-	
Slope Standard Deviation (cfm)	0.11	-	2.00	YES
Background at Injection (part/cc)	0.3155	-	20.00	YES
Initial Concentration (part/cc)	30390	24000	35000	YES
Data points used	21	9	-	YES
Average Temperature (°F)	70	65	75	YES
Average Humidity (%RH)	42	35	45	YES
Average Input Voltage (volts)	0.0			
Average Test Unit Power (watts)	0.0			

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AC-1 Air Cleaner Testing Facility

Control Number 1409180907-003
 Test Number WACP450

Smoke Measured



TIME(MIN)	Cti	ln(Cti)	TIME(MIN)	Cti	LN(Cti)
0.00	25,224.23	10.14	11.00	1,065.44	6.97
1.00	19,612.11	9.88	12.00	758.15	6.63
2.00	15,147.79	9.63	13.00	570.42	6.35
3.00	11,551.09	9.35	14.00	410.47	6.02
4.00	8,680.04	9.07	15.00	292.47	5.68
5.00	6,497.41	8.78	16.00	210.12	5.35
6.00	4,762.79	8.47	17.00	150.49	5.01
7.00	3,543.38	8.17	18.00	123.05	4.81 (eliminated - measurability)
8.00	2,638.84	7.88	19.00	84.55	4.44 (eliminated - measurability)
9.00	1,910.98	7.56	20.00	62.47	4.13 (eliminated - measurability)
10.00	1,407.45	7.25			

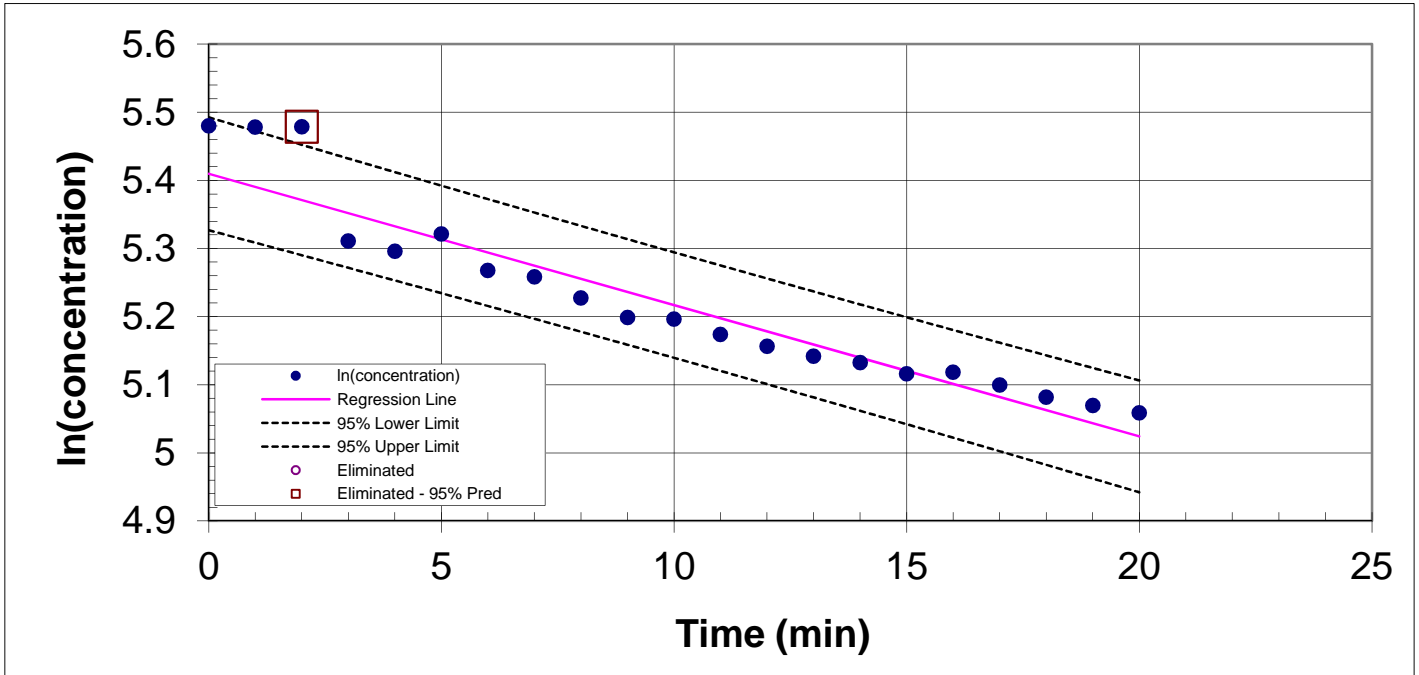
Quantity	Measured	Lower Limit	Upper Limit	Acceptable
Decay Constant	0.30264	-	-	
Slope Standard Deviation (cfm)	2.39	-	30.51	YES
Background at Injection (part/cc)	0.631	-	20.00	YES
Initial Concentration (part/cc)	32182	24000	35000	YES
Data points used	18	9	-	YES
Average Temperature (°F)	70	65	75	YES
Average Humidity (%RH)	41	35	45	YES
Average Input Voltage (volts)	119.9			
Average Test Unit Power (watts)	109.3			

CADR	302.19		
CADR Standard Deviation	2.4	30.2	YES

AC-1 Air Cleaner Testing Facility

Control Number 1409180907-003
 Test Number WACP450

Dust Natural



TIME(MIN)	Cti	ln(Cti)	TIME(MIN)	Cti	LN(Cti)
0.00	239.88	5.48	11.00	176.59	5.17
1.00	239.47	5.48	12.00	173.58	5.16
2.00	239.58	5.48 (eliminated - 95% pred.)	13.00	171.02	5.14
3.00	202.58	5.31	14.00	169.44	5.13
4.00	199.55	5.30	15.00	166.66	5.12
5.00	204.70	5.32	16.00	167.08	5.12
6.00	193.93	5.27	17.00	163.93	5.10
7.00	192.14	5.26	18.00	161.05	5.08
8.00	186.29	5.23	19.00	159.12	5.07
9.00	181.06	5.20	20.00	157.37	5.06
10.00	180.63	5.20			

Quantity	Measured	Lower Limit	Upper Limit	Acceptable
Decay Constant	0.01927	-	-	
Slope Standard Deviation (cfm)	1.38	-	1.94	YES
Background at Injection (part/cc)	0.009	-	0.03	YES
Initial Concentration (part/cc)	239.9	200	400	YES
Data points used	20	9	-	YES
Average Temperature (°F)	71	65	75	YES
Average Humidity (%RH)	41	35	45	YES
Average Input Voltage (volts)	0.0			
Average Test Unit Power (watts)	0.0			
Coefficient of Determination	0.917	0.900	-	YES

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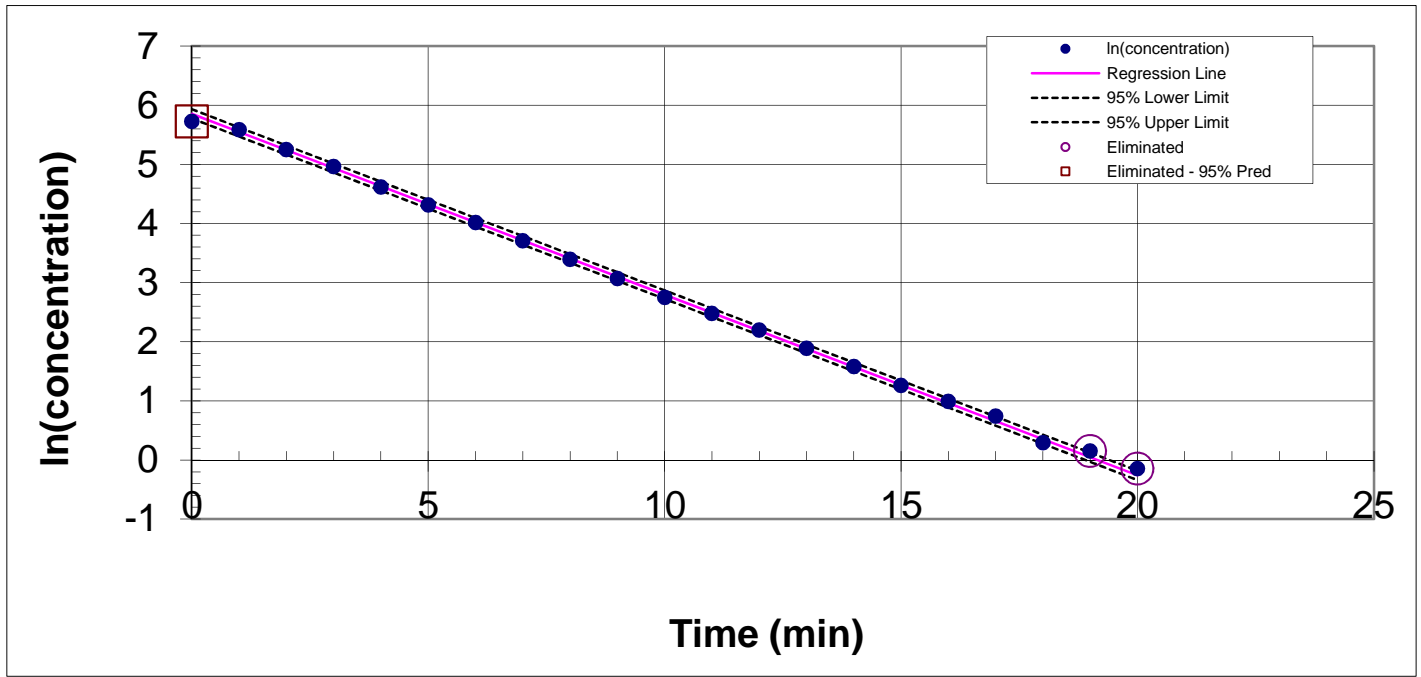
Test By: CK
 Reviewed By: LSB

Order Number G101659992
 Date 10/20/14 19:43:31

AC-1 Air Cleaner Testing Facility

Control Number 1409180907-003
 Test Number WACP450

Dust Measured



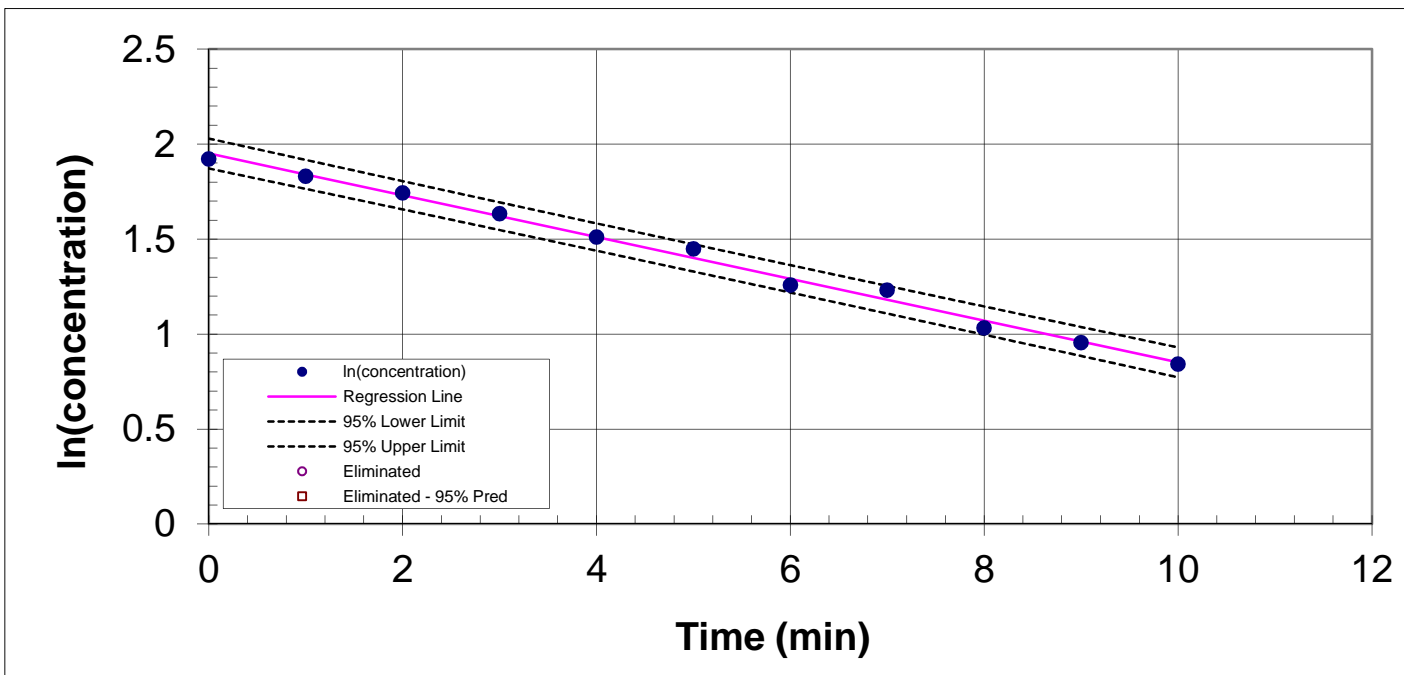
TIME(MIN)	Cti	ln(Cti)	TIME(MIN)	Cti	LN(Cti)
0.00	306.19	5.72 (eliminated - 95% pred.)	11.00	11.92	2.48
1.00	266.49	5.59	12.00	9.00	2.20
2.00	190.67	5.25	13.00	6.61	1.89
3.00	142.72	4.96	14.00	4.85	1.58
4.00	100.99	4.62	15.00	3.53	1.26
5.00	74.61	4.31	16.00	2.69	0.99
6.00	55.50	4.02	17.00	2.10	0.74
7.00	40.69	3.71	18.00	1.34	0.29
8.00	29.81	3.39	19.00	1.16	0.15 (eliminated - measurability)
9.00	21.57	3.07	20.00	0.86	-0.15 (eliminated - measurability)
10.00	15.66	2.75			

Quantity	Measured	Lower Limit	Upper Limit	Acceptable
Decay Constant	0.30570	-	-	
Slope Standard Deviation (cfm)	1.54	-	30.81	YES
Background at Injection (part/cc)	0.024	-	0.03	YES
Initial Concentration (part/cc)	266.5	200	400	YES
Data points used	18	9	-	YES
Average Temperature (°F)	71	65	75	YES
Average Humidity (%RH)	38	35	45	YES
Average Input Voltage (volts)	119.9			
Average Test Unit Power (watts)	108.1			
Coefficient of Determination	1.000	0.900	-	YES

CADR	288.72			
CADR Standard Deviation	2.1	0.9	28.9	YES

AC-1 Air Cleaner Testing Facility

Pollen Natural



TIME(MIN)	Cti	ln(Cti)	TIME(MIN)	Cti	LN(Cti)
0.00	6.83	1.92			
1.00	6.24	1.83			
2.00	5.72	1.74			
3.00	5.12	1.63			
4.00	4.53	1.51			
5.00	4.26	1.45			
6.00	3.52	1.26			
7.00	3.43	1.23			
8.00	2.81	1.03			
9.00	2.60	0.95			
10.00	2.32	0.84			

Quantity	Measured	Lower Limit	Upper Limit	Acceptable
Decay Constant	0.10995	0.095	0.143	YES
Slope Standard Deviation (cfm)	2.99	-	11.08	YES
Background at Injection (part/cc)	0.018	-	0.03	YES
Initial Concentration (part/cc)	6.832	4	9.5	YES
Data points used	11	5	-	YES
Average Temperature (°F)	70	65	75	YES
Average Humidity (%RH)	41	35	45	YES
Average Input Voltage (volts)	0.1			
Average Test Unit Power (watts)	0.0			
Coefficient of Determination	0.993	0.900		YES

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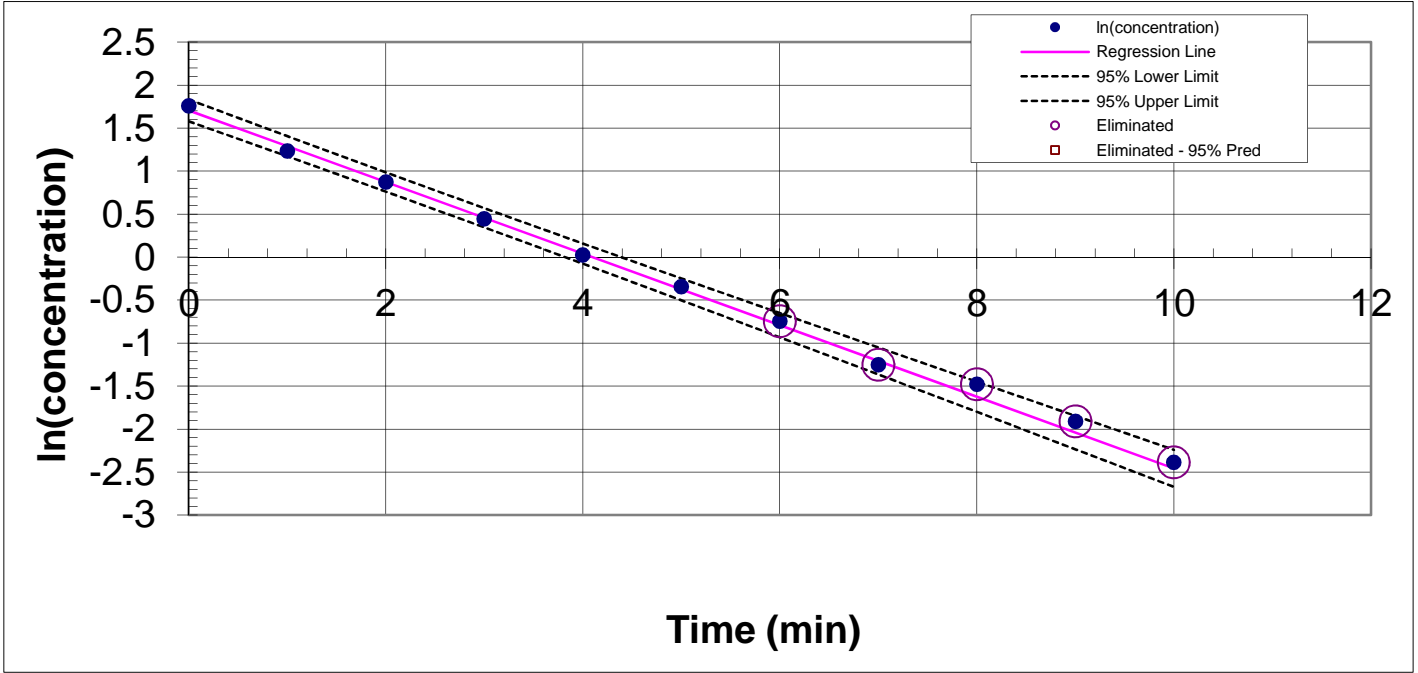
Test By: CK
 Reviewed By: LSB

Order Number G101659992
 Date 10/20/14 22:18:50

AC-1 Air Cleaner Testing Facility

Control Number 1409180907-003
 Test Number WACP450

Pollen Measured



TIME(MIN)	Cti	ln(Cti)	TIME(MIN)	Cti	LN(Cti)
0.00	5.80	1.76			
1.00	3.43	1.23			
2.00	2.39	0.87			
3.00	1.56	0.44			
4.00	1.03	0.03			
5.00	0.71	-0.35			
6.00	0.47	-0.75 (eliminated - measurability)			
7.00	0.29	-1.25 (eliminated - measurability)			
8.00	0.23	-1.48 (eliminated - measurability)			
9.00	0.15	-1.91 (eliminated - measurability)			
10.00	0.09	-2.39 (eliminated - measurability)			

Quantity	Measured	Lower Limit	Upper Limit	Acceptable
Decay Constant	0.41619	-	-	
Slope Standard Deviation (cfm)	10.14	-	41.95	YES
Background at Injection (part/cc)	0.016	-	0.03	YES
Initial Concentration (part/cc)	5.798	4	9.5	YES
Data points used	6	5	-	YES
Average Temperature (°F)	70	65	75	YES
Average Humidity (%RH)	41	35	45	YES
Average Input Voltage (volts)	119.9			
Average Test Unit Power (watts)	109.8			
Coefficient of Determination	0.998	0.900		YES

CADR	308.69			
CADR Standard Deviation	10.6	-	61.7	YES



Test By: CK
Reviewed By: LSB

Order Number G101659992
Date 10/20/14 19:43:31

AC-1 Air Cleaner Testing Facility

Control Number 1409180907-003
Test Number WACP450

Operating Power

Quantity	Measured	Lower Limit	Upper Limit	Acceptable
Operating Power (watts)	108.1			
Operating Voltage (volts)	119.9	119	121	YES
Points Used	13	10		YES
Dust CADR	288.72			
Energy Star (CADR/Watt)	2.7	2.0		YES
Operating Power (watts)	108.1			



Test By: CK
Reviewed By: LSB

Order Number G101659992
Date 10/20/14 18:45:40

AC-1 Air Cleaner Testing Facility

Control Number 1409180907-003
Test Number WACP450

Standby Power

Quantity	Measured	Lower Limit	Upper Limit	Acceptable
Standby Watt Variation	1.20%		5%	YES
Standby Duration (minutes)	5.1	5		YES
Standby Voltage (volts)	115.2	114	116	YES
Standby Frequency (Hz)	60.0	59	61	YES
Standby Temp (degF)	73.3	64.4	82.4	YES
Standby THD (%)	0.21%		2%	YES
Standby Power (watts)	1.1		2.0	YES