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LAMPIRAN

Lampiran 1 Contoh Perhitungan Nilai Tingkat Konsentrasi *Particulate Matter* (PM) H-3 Lebaran Interval Pagi

Diketahui :

Laju alir (Qo)	= 0,04 m^3/menit
Temperatur Standar (Ts)	= 298 K
Temperatur absolute saat pengujian 1 (To_1)	= 299,15 K
Temperature absolute saat pengujian 2 (To_2)	= 299,15 K
Tekanan Standar (Ps)	= 760 mmHg
Tekanan baromatik saat pengujian 1 (Po_1)	= 755,30 mmHg
Tekanan baromatik saat pengujian 2 (Po_2)	= 755,99 mmHg
Durasi pengambilan contoh uji (t)	= 60 menit
Berat filter awal $PM_{>10}$ (W_1)	= 0,1285 g
Berat filter akhir $PM_{>10}$ (W_2)	= 0,1296 g
Berat filter awal $PM_{10-2,5}$ (W_1)	= 0,1300 g
Berat filter akhir $PM_{10-2,5}$ (W_2)	= 0,1302 g
Berat filter awal $PM_{2,5-1}$ (W_1)	= 0,1286 g
Berat filter akhir $PM_{2,5-1}$ (W_2)	= 0,1294 g
Berat filter awal $PM_{1-0,5}$ (W_1)	= 0,1274 g
Berat filter akhir $PM_{1-0,5}$ (W_2)	= 0,1278 g
Berat filter awal $PM_{<0,5}$ (W_1)	= 0,1275 g
Berat filter akhir $PM_{<0,5}$ (W_2)	= 0,1288 g
P	= 0,159

Ditanyakan :

a. Laju alir volume terkoreksi pada kondisi standar
b. Volume contoh uji di udara
c. Konsentrasi contoh uji
d. Persamaan konversi canter

Penyelesaian :

1. Konsentrasi $PM_{>10}$

a) Laju alir volume terkoreksi pada kondisi standar

- Laju alir saat dinyalakan

  $Q_1 = Q_o \times \left[\frac{Ts \times Po_1}{To_1 \times Ps}\right]^{\frac{1}{2}}$

  $Q_1 = 0{,}04\ m^3/menit \times \left[\frac{298\ K \times 755{,}30\ mmHg}{299{,}15\ K \times 760\ mmHg}\right]^{\frac{1}{2}}$

  $Q_1 = 0{,}040\ m^3/menit$

- Laju alir saat dimatikan

  $Q_1 = Q_o \times \left[\frac{Ts \times Po_1}{To_1 \times Ps}\right]^{\frac{1}{2}}$

$Q_1 = 0{,}04\ m^3/menit \times \left[\frac{298\ K \times 755{,}99\ mmHg}{299{,}15\ K \times 760\ mmHg}\right]^{\frac{1}{2}}$

$Q_1 = 0{,}040\ m^3/menit$

b) Volume contoh uji di udara dalam keadaan standar

$V = \frac{Qs_1 + Qs_2}{2} \times T$

$V = \frac{0{,}040\frac{m3}{menit} + 0{,}040\frac{m3}{menit}}{2} \times 60\ menit$

$V = 2{,}389\ m^3$

c) Konsentrasi contoh uji

$C = \frac{(W_2 - W_1) \times 10^6}{Vstd}$

$C = \frac{(0{,}1296\ gram - 0{,}1285\ gram) \times 10^6}{2{,}389\ m^3}$

$C = 460{,}538\ \mu g/m^3$

d) Konsentrasi *Particulate Matter* (PM) dalam waktu 24 jam

$C_1 = C_2 \times \left(\frac{t_2}{t_1}\right)^p$

$C_1 = 460{,}538\ \mu g/m^3 \times \left(\frac{1}{24}\right)^{0{,}159}$

$C_1 = 277{,}85\ \mu g/m^3$

2. Konsentrasi $PM_{10\text{-}2{,}5}$

a) Laju alir volume terkoreksi pada kondisi standar

- Laju alir saat dinyalakan

$Q_1 = Q_o \times \left[\frac{Ts \times Po_1}{To_1 \times Ps}\right]^{\frac{1}{2}}$

$Q_1 = 0{,}04\ m^3/menit \times \left[\frac{298\ K \times 755{,}30\ mmHg}{299{,}15\ K \times 760\ mmHg}\right]^{\frac{1}{2}}$

$Q_1 = 0{,}040\ m^3/menit$

- Laju alir saat dimatikan

$Q_1 = Q_o \times \left[\frac{Ts \times Po_1}{To_1 \times Ps}\right]^{\frac{1}{2}}$

$Q_1 = 0{,}04\ m^3/menit \times \left[\frac{298\ K \times 755{,}99\ mmHg}{299{,}15\ K \times 760\ mmHg}\right]^{\frac{1}{2}}$

$Q_1 = 0{,}040\ m^3/menit$

b) Volume contoh uji di udara dalam keadaan standar

$V = \frac{Qs_1 + Qs_2}{2} \times T$

$V = \frac{0{,}040\frac{m3}{menit} + 0{,}040\frac{m3}{menit}}{2} \times 60\ menit$

$V = 2{,}389\ m^3$

c) Konsentrasi contoh uji

$C = \frac{(W_2 - W_1) \times 10^6}{Vstd}$

$C = \frac{(0{,}1302\ gram - 0{,}1300\ gram) \times 10^6}{2{,}389\ m^3}$

$C = 83{,}7342\ \mu g/m^3$

d) Konsentrasi *Particulate Matter* (PM) dalam waktu 24 jam

$$C_1 = C_2 \times \left(\frac{t_2}{t_1}\right)^p$$

$$C_1 = 83{,}7342\ \mu g/m^3 \times \left(\frac{1}{24}\right)^{0{,}159}$$

$$C_1 = 50{,}52\ \mu g/m^3$$

3. Konsentrasi $PM_{2,5-1}$

a) Laju alir volume terkoreksi pada kondisi standar

- Laju alir saat dinyalakan

$$Q_1 = Q_o \times \left[\frac{Ts \times Po_1}{To_1 \times Ps}\right]^{\frac{1}{2}}$$

$$Q_1 = 0{,}04\ m^3/menit \times \left[\frac{298\ K \times 755{,}30\ mmHg}{299{,}15\ K \times 760\ mmHg}\right]^{\frac{1}{2}}$$

$$Q_1 = 0{,}040\ m^3/menit$$

- Laju alir saat dimatikan

$$Q_1 = Q_o \times \left[\frac{Ts \times Po_1}{To_1 \times Ps}\right]^{\frac{1}{2}}$$

$$Q_1 = 0{,}04\ m^3/menit \times \left[\frac{298\ K \times 755{,}99\ mmHg}{299{,}15\ K \times 760\ mmHg}\right]^{\frac{1}{2}}$$

$$Q_1 = 0{,}040\ m^3/menit$$

b) Volume contoh uji di udara dalam keadaan standar

$$V = \frac{Qs_1 + Qs_2}{2} \times T$$

$$V = \frac{0{,}040\frac{m3}{menit} + 0{,}040\frac{m3}{menit}}{2} \times 60\ menit$$

$$V = 2{,}389\ m^3$$

c) Konsentrasi contoh uji

$$C = \frac{(W_2 - W_1) \times 10^6}{Vstd}$$

$$C = \frac{(0{,}1294\ gram - 0{,}1286\ gram) \times 10^6}{2{,}389\ m^3}$$

$$C = 334{,}937\ \mu g/m^3$$

d) Konsentrasi *Particulate Matter* (PM) dalam waktu 24 jam

$$C_1 = C_2 \times \left(\frac{t_2}{t_1}\right)^p$$

$$C_1 = 334{,}937\ \mu g/m^3 \times \left(\frac{1}{24}\right)^{0{,}159}$$

$$C_1 = 202{,}07\ \mu g/m^3$$

4. Konsentrasi $PM_{1-0,5}$

a) Laju alir volume terkoreksi pada kondisi standar

- Laju alir saat dinyalakan

$$Q_1 = Q_o \times \left[\frac{Ts \times Po_1}{To_1 \times Ps}\right]^{\frac{1}{2}}$$

$Q_1 = 0{,}04\ m^3/menit \times \left[\frac{298\ K \times 755{,}30\ mmHg}{299{,}15\ K \times 760\ mmHg}\right]^{\frac{1}{2}}$

$Q_1 = 0{,}040\ m^3/menit$

- Laju alir saat dimatikan

$Q_1 = Q_o \times \left[\frac{Ts \times Po_1}{To_1 \times Ps}\right]^{\frac{1}{2}}$

$Q_1 = 0{,}04\ m^3/menit \times \left[\frac{298\ K \times 755{,}99\ mmHg}{299{,}15\ K \times 760\ mmHg}\right]^{\frac{1}{2}}$

$Q_1 = 0{,}040\ m^3/menit$

b) Volume contoh uji di udara dalam keadaan standar

$V = \frac{Qs_1 + Qs_2}{2} \times T$

$V = \frac{0{,}040\frac{m3}{menit} + 0{,}040\frac{m3}{menit}}{2} \times 60\ menit$

$V = 2{,}389\ m^3$

c) Konsentrasi contoh uji

$C = \frac{(W_2 - W_1) \times 10^6}{Vstd}$

$C = \frac{(0{,}1278\ gram - 0{,}1274\ gram) \times 10^6}{2{,}389\ m^3}$

$C = 167{,}468\ \mu g/m^3$

d) Konsentrasi *Particulate Matter* (PM) dalam waktu 24 jam

$C_1 = C_2 \times \left(\frac{t_2}{t_1}\right)^p$

$C_1 = 167{,}468\ \mu g/m^3 \times \left(\frac{1}{24}\right)^{0{,}159}$

$C_1 = 101{,}04\ \mu g/m^3$

5. Konsentrasi $PM_{<0,5}$

a) Laju alir volume terkoreksi pada kondisi standar

- Laju alir saat dinyalakan

$Q_1 = Q_o \times \left[\frac{Ts \times Po_1}{To_1 \times Ps}\right]^{\frac{1}{2}}$

$Q_1 = 0{,}04\ m^3/menit \times \left[\frac{298\ K \times 755{,}30\ mmHg}{299{,}15\ K \times 760\ mmHg}\right]^{\frac{1}{2}}$

$Q_1 = 0{,}040\ m^3/menit$

- Laju alir saat dimatikan

$Q_1 = Q_o \times \left[\frac{Ts \times Po_1}{To_1 \times Ps}\right]^{\frac{1}{2}}$

$Q_1 = 0{,}04\ m^3/menit \times \left[\frac{298\ K \times 755{,}99\ mmHg}{299{,}15\ K \times 760\ mmHg}\right]^{\frac{1}{2}}$

$Q_1 = 0{,}040\ m^3/menit$

b) Volume contoh uji di udara dalam keadaan standar

$V = \frac{Qs_1 + Qs_2}{2} \times T$

$$V = \frac{0{,}040\frac{m3}{menit} + 0{,}040\frac{m3}{menit}}{2} \times 60 \text{ menit}$$

$$V = 2{,}389\ m^3$$

c) Konsentrasi contoh uji

$$C = \frac{(W_2 - W_1) \times 10^6}{Vstd}$$

$$C = \frac{(0{,}1288 \text{ gram} - 0{,}1275 \text{ gram}) \times 10^6}{2{,}389\ m^3}$$

$$C = 544{,}272\ \mu g/m^3$$

d) Konsentrasi *Particulate Matter* (PM) dalam waktu 24 jam

$$C_1 = C_2 \times \left(\frac{t_2}{t_1}\right)^p$$

$$C_1 = 544{,}272\ \mu g/m^3 \times \left(\frac{1}{24}\right)^{0{,}159}$$

$$C_1 = 328{,}37\ \mu g/m^3$$

6. Konsentrasi TSP

$$TSP = PM_{>10} + PM_{10\text{-}2{,}5} + PM_{2{,}5\text{-}1} + PM_{1\text{-}0{,}5} + PM_{<0{,}5}$$

$$TSP = 277{,}85 + 50{,}52 + 202{,}07 + 101{,}04 + 328{,}37$$

$$TSP = 959{,}85\ \mu g/m^3$$

7. Konsentrasi PM_{10}

$$PM_{10} = PM_{10\text{-}2{,}5} + PM_{2{,}5\text{-}1} + PM_{1\text{-}0{,}5} + PM_{<0{,}5}$$

$$PM_{10} = 50{,}52 + 202{,}07 + 101{,}04 + 328{,}37$$

$$PM_{10} = 682\ \mu g/m^3$$

8. Konsentrasi $PM_{2{,}5}$

$$PM_{2{,}5} = PM_{2{,}5\text{-}1} + PM_{1\text{-}0{,}5} + PM_{<0{,}5}$$

$$PM_{2{,}5} = 631{,}48\ \mu g/m^3$$

Lampiran 2 Rekapitulasi Tingkat konsentrasi *Particulate Matter* (PM)

Tabel 23. Rekapitulasi perhitungan konsentrasi PM H-3, H-2, H+2, H+3 lebaran dan hari normal

Hari/Tanggal	Interval Waktu	Konsentrasi Partikulat ($\mu g/m^3$)							
		PM (>10 µm)	PM (10 - 2,5 µm)	PM (2,5 - 1 µm)	PM (1 - 0,5 µm)	PM (<0,5 µm)	TSP	PM (10 µm)	PM (10 µm)
Hari-1 (H-3 Lebaran)	Pagi	277,85	50,52	202,07	101,04	328,37	959,85	682,00	631,48
	Siang	101,23	177,15	75,92	50,61	151,84	556,76	455,53	278,38
	Sore	75,65	50,43	75,65	75,65	75,65	353,04	277,39	226,95
Hari-2 (H-2 Lebaran)	Pagi	533,54	254,07	127,03	177,85	482,73	1575,21	1041,67	787,61
	Siang	177,95	50,84	50,84	127,11	101,68	508,42	330,48	279,63
	Sore	126,96	76,17	152,35	50,78	152,35	558,61	431,65	355,48
Hari-3 (H+2 Lebaran)	Pagi	252,93	278,22	151,76	151,76	50,59	885,24	632,32	354,10
	Siang	101,49	152,23	202,98	152,23	202,98	811,91	710,42	558,19
	Sore	126,96	228,52	177,74	330,09	177,74	1041,05	914,09	685,57
Hari-4 (H+3 Lebaran)	Pagi	101,75	127,19	76,31	254,37	203,50	763,12	661,37	534,18
	Siang	102,02	51,01	102,02	127,52	76,51	459,08	357,06	306,05
	Sore	76,08	76,08	152,16	101,44	228,24	633,99	557,91	481,83
Hari-5 (Hari Normal)	Pagi	305,25	76,31	127,19	381,56	508,74	1399,05	1093,80	1017,49
	Siang	255,04	153,03	127,52	76,51	382,56	994,66	739,62	586,59
	Sore	407,46	458,40	254,67	458,40	280,13	1859,06	1451,59	993,19

Sumber : Hasil Perhitungan, 2024

Lampiran 3 Rekapitulasi Volume Kendaraan

Tabel 24. Rekapitulasi volume kendaraan

Hari	Interval pengukuran	Jenis Kendaraan (Unit)			Jumlah
		Berat	Ringan	Sepeda Motor	
Hari-1 (H-3 Lebaran)	Pagi	94	1653	1108	2855
	Siang	57	1554	1634	3245
	Sore	63	1018	1109	2190
Hari-2 (H-2 Lebaran)	Pagi	74	2226	1322	3622
	Siang	62	1225	1218	2505
	Sore	40	1826	950	2816
Hari-3 (H+2 Lebaran)	Pagi	29	1205	1279	2513
	Siang	28	1091	1334	2453
	Sore	46	1232	1595	2873
Hari-4 (H+3 Lebaran)	Pagi	41	1358	1627	3026
	Siang	45	1349	1428	2822
	Sore	43	1253	1446	2742
Hari-5 (Hari Normal)	Pagi	206	783	900	1889
	Siang	130	563	656	1349
	Sore	140	672	1134	1946

Sumber : Hasil Pengukuran, 2024

Lampiran 4 Rekapitulasi Kecepatan Kendaraan

Tabel 25. Rekapitulasi kecepatan kendaraan

Hari	Interval pengukuran	Jenis Kendaraan (Km/jam)			Jumlah
		Sepeda Motor	Ringan	Berat	
Hari-1 (H-3 Lebaran)	Pagi	30,50	28,70	23,93	27,71
	Siang	30,60	28,00	25,29	27,96
	Sore	33,30	29,00	23,67	28,66
Hari-2 (H-2 Lebaran)	Pagi	39,15	35,50	28,60	34,42
	Siang	39,95	34,35	27,80	34,03
	Sore	31,75	28,95	26,15	28,95
Hari-3 (H+2 Lebaran)	Pagi	30,45	25,00	25,35	26,94
	Siang	27,32	26,41	23,25	25,66
	Sore	26,01	24,24	17,70	22,65
Hari-4 (H+3 Lebaran)	Pagi	31,71	29,64	21,07	27,47
	Siang	32,27	31,46	22,92	28,88
	Sore	32,27	31,91	27,75	30,64
Hari-5 (Hari Normal)	Pagi	32,20	29,15	29,95	30,43
	Siang	29,65	27,15	23,25	26,68
	Sore	31,95	27,80	26,25	28,67

Sumber : Hasil Pengukuran, 2024

Lampiran 5 Hasil Uji Normalitas

5a. Uji Normalitas Data TSP

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.252	3	.	.965	3	.642
H-2 Lebaran	.370	3	.	.785	3	.080
H+2 Lebaran	.260	3	.	.959	3	.609
H+3 Lebaran	.206	3	.	.992	3	.834
Hari Normal	.184	3	.	.999	3	.929

a. Lilliefors Significance Correction

5b. Uji Normalitas Data PM10

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.198	3	.	.995	3	.868
H-2 Lebaran	.337	3	.	.854	3	.252
H+2 Lebaran	.280	3	.	.938	3	.519
H+3 Lebaran	.250	3	.	.967	3	.651
Hari Normal	.175	3	.	1.000	3	.994

a. Lilliefors Significance Correction

5c. Uji Normalitas Data PM2,5

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.343	3	.	.844	3	.224
H-2 Lebaran	.334	3	.	.859	3	.265
H+2 Lebaran	.227	3	.	.982	3	.746
H+3 Lebaran	.301	3	.	.911	3	.422
Hari Normal	.367	3	.	.792	3	.096

a. Lilliefors Significance Correction

5d. Uji Normalitas Data PM Persize

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.152	15	.200*	.909	15	.133
H-2 Lebaran	.148	15	.200*	.919	15	.185
H+2 Lebaran	.133	15	.200*	.976	15	.930
H+3 Lebaran	.117	15	.200*	.922	15	.204
Hari Normal	.154	15	.200*	.940	15	.384

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

5e. Uji Normalitas Volume Kendaraan Total

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.235	3	.	.978	3	.715
H-2 Lebaran	.279	3	.	.939	3	.522
H+2 Lebaran	.337	3	.	.855	3	.253
H+3 Lebaran	.278	3	.	.940	3	.528
Hari Normal	.354	3	.	.821	3	.165

a. Lilliefors Significance Correction

5f. Uji Normalitas Volume Kendaraan Ringan

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.332	3	.	.864	3	.278
H-2 Lebaran	.220	3	.	.987	3	.780
H+2 Lebaran	.317	3	.	.887	3	.346
H+3 Lebaran	.358	3	.	.814	3	.148
Hari Normal	.175	3	.	1.000	3	.990

a. Lilliefors Significance Correction

5g. Uji Normalitas Volume Kendaraan Berat

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.329	3	.	.868	3	.290
H-2 Lebaran	.243	3	.	.972	3	.679
H+2 Lebaran	.368	3	.	.792	3	.094
H+3 Lebaran	.175	3	.	1.000	3	1.000
Hari Normal	.341	3	.	.847	3	.232

a. Lilliefors Significance Correction

5h. Uji Normalitas Volume Kendaraan Sepeda Motor

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.230	3	.	.981	3	.735
H-2 Lebaran	.279	3	.	.939	3	.524
H+2 Lebaran	.325	3	.	.876	3	.312
H+3 Lebaran	.356	3	.	.817	3	.156
Hari Normal	.176	3	.	1.000	3	.977

a. Lilliefors Significance Correction

5i. Uji Normalitas Kecepatan Kendaraan Rata-Rata

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.286	3	.	.930	3	.490
H-2 Lebaran	.362	3	.	.803	3	.122
H+2 Lebaran	.270	3	.	.949	3	.563
H+3 Lebaran	.196	3	.	.996	3	.878
Hari Normal	.183	3	.	.999	3	.932

a. Lilliefors Significance Correction

5j. Uji Normalitas Kecepatan Kendaraan Ringan

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.269	3	.	.949	3	.567
H-2 Lebaran	.324	3	.	.877	3	.315
H+2 Lebaran	.245	3	.	.971	3	.673
H+3 Lebaran	.315	3	.	.892	3	.360
Hari Normal	.257	3	.	.961	3	.619

a. Lilliefors Significance Correction

5k. Uji Normalitas Kecepatan Kendaraan Berat

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.330	3	.	.867	3	.286
H-2 Lebaran	.256	3	.	.961	3	.622
H+2 Lebaran	.281	3	.	.937	3	.514
H+3 Lebaran	.280	3	.	.938	3	.519
Hari Normal	.194	3	.	.996	3	.885

a. Lilliefors Significance Correction

5l. Uji Normalitas Kecepatan Kendaraan Sepeda Motor

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.374	3	.	.777	3	.060
H-2 Lebaran	.353	3	.	.822	3	.169
H+2 Lebaran	.272	3	.	.947	3	.556
H+3 Lebaran	.306	3	.	.905	3	.400
Hari Normal	.353	3	.	.823	3	.170

a. Lilliefors Significance Correction

5m. Uji Normalitas Temperatur

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.175	3	.	1.000	3	1.000
H-2 Lebaran	.269	3	.	.949	3	.567
H+2 Lebaran	.200	3	.	.995	3	.862
H+3 Lebaran	.319	3	.	.885	3	.339
Hari Normal	.308	3	.	.902	3	.391

a. Lilliefors Significance Correction

5n. Uji Normalitas Kelembapan

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.204	3	.	.993	3	.843
H-2 Lebaran	.201	3	.	.995	3	.859
H+2 Lebaran	.204	3	.	.993	3	.843
H+3 Lebaran	.227	3	.	.983	3	.747
Hari Normal	.243	3	.	.972	3	.679

a. Lilliefors Significance Correction

5o. Uji Normalitas Kecepatan Angin

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.292	3	.	.923	3	.463
H-2 Lebaran	.280	3	.	.938	3	.520
H+2 Lebaran	.222	3	.	.985	3	.767
H+3 Lebaran	.358	3	.	.812	3	.144
Hari Normal	.347	3	.	.835	3	.202

a. Lilliefors Significance Correction

5p. Uji Normalitas Tekanan Udara

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
H-3 Lebaran	.359	3	.	.811	3	.141
H-2 Lebaran	.256	3	.	.962	3	.624
H+2 Lebaran	.289	3	.	.927	3	.478
H+3 Lebaran	.283	3	.	.935	3	.507
Hari Normal	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Lampiran 6 Hasil analisis hubungan konsentrasi PM dengan volume kendaraan

6a. Nilai koefisien korelasi dan koefisien determinasi hubungan konsentrasi TSP dengan volume kendaraan total

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.999[a]	.999	.997	16.54248

a. Predictors: (Constant), Volume Kendaraan Total

6b. Hasil uji linearitas hubungan konsentrasi TSP dengan volume kendaraan total

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	190460.267	1	190460.267	695.990	.024[b]
	Residual	273.654	1	273.654		
	Total	190733.921	2			

a. Dependent Variable: Konsentrasi TSP

b. Predictors: (Constant), Volume Kendaraan Total

6c. Nilai koefisien korelasi dan koefisien determinasi hubungan konsentrasi TSP dengan volume kendaraan ringan

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.997[a]	.994	.988	33.17575

a. Predictors: (Constant), Volume Kendaraan Ringan

6d. Hasil uji linearitas hubungan konsentrasi TSP dengan volume kendaraan ringan

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	189633.290	1	189633.290	172.295	.048[b]
	Residual	1100.631	1	1100.631		
	Total	190733.921	2			

a. Dependent Variable: Konsentrasi TSP

b. Predictors: (Constant), Volume Kendaraan Ringan

6e. Nilai koefisien korelasi dan koefisien determinasi hubungan konsentrasi TSP dengan volume kendaraan berat

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.998[a]	.996	.992	27.74886

a. Predictors: (Constant), Volume Kendaraan Berat

6f. Hasil uji linearitas hubungan konsentrasi TSP dengan volume kendaraan berat

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	189963.922	1	189963.922	246.707	.040[b]
	Residual	769.999	1	769.999		
	Total	190733.921	2			

a. Dependent Variable: Konsentrasi TSP

b. Predictors: (Constant), Volume Kendaraan Berat

6g. Nilai koefisien korelasi dan koefisien determinasi hubungan konsentrasi TSP dengan volume kendaraan sepeda motor

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.999[a]	.997	.995	22.78678

a. Predictors: (Constant), Volume Kendaraan Sepeda Motor

6h. Hasil uji linearitas hubungan konsentrasi TSP dengan volume kendaraan sepeda motor

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	190214.683	1	190214.683	366.335	.033[b]
	Residual	519.237	1	519.237		
	Total	190733.921	2			

a. Dependent Variable: Konsentrasi TSP

b. Predictors: (Constant), Volume Kendaraan Sepeda Motor

Lampiran 7 Hasil analisis hubungan konsentrasi PM dengan kecepatan kendaraan

7a. Nilai koefisien korelasi dan koefisien determinasi hubungan konsentrasi TSP dengan kecepatan kendaraan ringan

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.984[a]	.968	.936	78.39388

a. Predictors: (Constant), Kecepatan Kendaraan Ringan

7b. Hasil uji linearitas hubungan konsentrasi TSP dengan kecepatan kendaraan ringan

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	184588.321	1	184588.321	30.036	.115[b]
	Residual	6145.600	1	6145.600		
	Total	190733.921	2			

a. Dependent Variable: Konsentrasi TSP

b. Predictors: (Constant), Kecepatan Kendaraan Ringan

7c. Nilai koefisien korelasi dan koefisien determinasi hubungan konsentrasi TSP dengan kecepatan kendaraan berat

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.882[a]	.779	.557	205.53129

a. Predictors: (Constant), Kecepatan Kendaraan Berat

7d. Hasil uji linearitas hubungan konsentrasi TSP dengan kecepatan kendaraan berat

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	148490.810	1	148490.810	3.515	.312[b]
	Residual	42243.111	1	42243.111		
	Total	190733.921	2			

a. Dependent Variable: Konsentrasi TSP

b. Predictors: (Constant), Kecepatan Kendaraan Berat

7e. Nilai koefisien korelasi dan koefisien determinasi hubungan konsentrasi TSP dengan kecepatan kendaraan sepeda motor

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.985[a]	.969	.939	76.43217

a. Predictors: (Constant), Kecepatan Kendaraan Sepeda Motor

7f. Hasil uji linearitas hubungan konsentrasi TSP dengan kecepatan kendaraan sepeda motor

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	184892.044	1	184892.044	31.649	.112[b]
	Residual	5841.877	1	5841.877		
	Total	190733.921	2			

a. Dependent Variable: Konsentrasi TSP

b. Predictors: (Constant), Kecepatan Kendaraan Sepeda Motor

Lampiran 8 Hasil analisis hubungan konsentrasi PM dengan data meteorologi

8a. Nilai koefisien korelasi dan koefisien determinasi hubungan konsentrasi TSP dengan temperatur

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.994[a]	.987	.974	49.67415

a. Predictors: (Constant), Temperatur

8b. Hasil uji linearitas hubungan konsentrasi TSP dengan temperatur

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	188266.399	1	188266.399	76.298	.073[b]
	Residual	2467.522	1	2467.522		
	Total	190733.921	2			

a. Dependent Variable: Konsentrasi TSP

b. Predictors: (Constant), Temperatur

8c. Nilai koefisien korelasi dan koefisien determinasi hubungan konsentrasi TSP dengan kelembapan

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.999[a]	.998	.996	20.26288

a. Predictors: (Constant), Kelembapan

8d. Hasil uji linearitas hubungan konsentrasi TSP dengan kelembapan

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	190323.337	1	190323.337	463.543	.030[b]
	Residual	410.584	1	410.584		
	Total	190733.921	2			

a. Dependent Variable: Konsentrasi TSP

b. Predictors: (Constant), Kelembapan

8e. Nilai koefisien korelasi dan koefisien determinasi hubungan konsentrasi TSP dengan kecepatan angin

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.976[a]	.953	.906	94.92396

a. Predictors: (Constant), Kecepatan Angin

8f. Hasil uji linearitas hubungan konsentrasi TSP dengan kecepatan angin

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	181723.363	1	181723.363	20.168	.139[b]
	Residual	9010.558	1	9010.558		
	Total	190733.921	2			

a. Dependent Variable: Konsentrasi TSP

b. Predictors: (Constant), Kecepatan Angin

8g. Nilai koefisien korelasi dan koefisien determinasi hubungan konsentrasi TSP dengan tekanan udara

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.252[a]	.063	-.873	422.68100

a. Predictors: (Constant), Tekanan Udara

8h. Hasil uji linearitas hubungan konsentrasi TSP dengan tekanan udara

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	12074.691	1	12074.691	.068	.838[b]
	Residual	178659.230	1	178659.230		
	Total	190733.921	2			

a. Dependent Variable: Konsentrasi TSP

b. Predictors: (Constant), Tekanan Udara

Lampiran 9 Hasil Uji Beda *Paired Sampled T-Test*

9a. Uji Beda Konsentrasi Ukuran PM

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
					95% Confidence Interval of the Difference				
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper			
Pair 1	H-3 Lebaran - H-2 Lebaran	-51.50800	103.12568	26.62694	-108.61710	5.60110	-1.934	14	.074
Pair 2	H-3 Lebaran - H+2 Lebaran	-57.90600	129.30515	33.38645	-129.51281	13.70081	-1.734	14	.105
Pair 3	H-3 Lebaran - H+3 Lebaran	.89533	103.66129	26.76523	-56.51037	58.30104	.033	14	.974
Pair 4	H-3 Lebaran - Hari Normal	-158.87600	150.55220	38.87241	-242.24903	-75.50297	-4.087	14	.001
Pair 5	H-2 Lebaran - H+2 Lebaran	-6.39800	173.08703	44.69088	-102.25040	89.45440	-.143	14	.888
Pair 6	H-2 Lebaran - H+3 Lebaran	52.40333	138.27502	35.70246	-24.17082	128.97749	1.468	14	.164
Pair 7	H-2 Lebaran - Hari Normal	-107.36800	184.08491	47.53052	-209.31083	-5.42517	-2.259	14	.040
Pair 8	H+2 Lebaran - H+3 Lebaran	58.80133	104.11551	26.88251	1.14408	116.45858	2.187	14	.046
Pair 9	H+2 Lebaran - Hari Normal	-100.97000	165.94738	42.84743	-192.86860	-9.07140	-2.357	14	.034
Pair 10	H+3 Lebaran - Hari Normal	-159.77133	146.47770	37.82038	-240.88798	-78.65469	-4.224	14	.001

9b. Uji Beda Konsentrasi Total PM

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
					95% Confidence Interval of the Difference				
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper			
Pair 1	H-3 Lebaran - H-2 Lebaran	-160.82000	223.65999	74.55333	-332.74028	11.10028	-2.157	8	.063
Pair 2	H-3 Lebaran - H+2 Lebaran	-241.27889	327.58127	109.19376	-493.08015	10.52237	-2.210	8	.058
Pair 3	H-3 Lebaran - H+3 Lebaran	-37.02333	186.69848	62.23283	-180.53249	106.48582	-.595	8	.568
Pair 4	H-3 Lebaran - Hari Normal	-634.85222	430.92431	143.64144	-966.08997	-303.61448	-4.420	8	.002
Pair 5	H-2 Lebaran - H+2 Lebaran	-80.45889	455.76949	151.92316	-430.79433	269.87655	-.530	8	.611
Pair 6	H-2 Lebaran - H+3 Lebaran	123.79667	310.61260	103.53753	-114.96131	362.55465	1.196	8	.266
Pair 7	H-2 Lebaran - Hari Normal	-474.03222	461.03239	153.67746	-828.41309	-119.65135	-3.085	8	.015
Pair 8	H+2 Lebaran - H+3 Lebaran	204.25556	199.90683	66.63561	50.59357	357.91755	3.065	8	.015
Pair 9	H+2 Lebaran - Hari Normal	-393.57333	276.28892	92.09631	-605.94779	-181.19887	-4.273	8	.003
Pair 10	H+3 Lebaran - Hari Normal	-597.82889	291.81481	97.27160	-822.13761	-373.52017	-6.146	8	.000

9c. Uji Beda Volume Kendaraan Total

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
					95% Confidence Interval of the Difference				
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper			
Pair 1	H-3 Lebaran - H-2 Lebaran	-217.667	832.355	480.560	-2285.350	1850.017	-.453	2	.695
Pair 2	H-3 Lebaran - H+2 Lebaran	150.333	755.949	436.447	-1727.547	2028.214	.344	2	.763
Pair 3	H-3 Lebaran - H+3 Lebaran	-100.000	491.362	283.688	-1320.612	1120.612	-.352	2	.758
Pair 4	H-3 Lebaran - Hari Normal	1035.333	828.180	478.150	-1021.979	3092.645	2.165	2	.163
Pair 5	H-2 Lebaran - H+2 Lebaran	368.000	644.035	371.834	-1231.871	1967.871	.990	2	.427
Pair 6	H-2 Lebaran - H+3 Lebaran	117.667	458.064	264.463	-1020.227	1255.560	.445	2	.700
Pair 7	H-2 Lebaran - Hari Normal	1253.000	439.601	253.804	160.971	2345.029	4.937	2	.039
Pair 8	H+2 Lebaran - H+3 Lebaran	-250.333	338.002	195.146	-1089.977	589.310	-1.283	2	.328
Pair 9	H+2 Lebaran - Hari Normal	885.000	242.741	140.146	281.999	1488.001	6.315	2	.024
Pair 10	H+3 Lebaran - Hari Normal	1135.333	338.503	195.435	294.445	1976.222	5.809	2	.028

9d. Uji Beda Kecepatan Kendaraan Rata-Rata

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
					95% Confidence Interval of the Difference				
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper			
Pair 1	H-3 Lebaran - H-2 Lebaran	-4.35667	3.53634	2.04171	-13.14143	4.42810	-2.134	2	.166
Pair 2	H-3 Lebaran - H+2 Lebaran	3.02667	2.69452	1.55568	-3.66689	9.72022	1.946	2	.191
Pair 3	H-3 Lebaran - H+3 Lebaran	-.88667	1.11038	.64108	-3.64499	1.87166	-1.383	2	.301
Pair 4	H-3 Lebaran - Hari Normal	-.48333	2.04158	1.17870	-5.55489	4.58822	-.410	2	.722
Pair 5	H-2 Lebaran - H+2 Lebaran	7.38333	1.03838	.59951	4.80385	9.96281	12.316	2	.007
Pair 6	H-2 Lebaran - H+3 Lebaran	3.47000	4.55842	2.63181	-7.85374	14.79374	1.318	2	.318
Pair 7	H-2 Lebaran - Hari Normal	3.87333	3.53644	2.04177	-4.91168	12.65835	1.897	2	.198
Pair 8	H+2 Lebaran - H+3 Lebaran	-3.91333	3.77802	2.18124	-13.29845	5.47179	-1.794	2	.215
Pair 9	H+2 Lebaran - Hari Normal	-3.51000	2.50006	1.44341	-9.72049	2.70049	-2.432	2	.136
Pair 10	H+3 Lebaran - Hari Normal	.40333	2.91500	1.68298	-6.83793	7.64460	.240	2	.833

9e. Uji Beda Temperatur

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
					95% Confidence Interval of the Difference				
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper			
Pair 1	H-3 Lebaran - H-2 Lebaran	-3.56667	.51316	.29627	-4.84143	-2.29191	-12.038	2	.007
Pair 2	H-3 Lebaran - H+2 Lebaran	-2.58333	1.26919	.73276	-5.73617	.56950	-3.525	2	.072
Pair 3	H-3 Lebaran - H+3 Lebaran	-4.41667	1.23322	.71200	-7.48016	-1.35318	-6.203	2	.025
Pair 4	H-3 Lebaran - Hari Normal	-5.41667	.99289	.57325	-7.88315	-2.95019	-9.449	2	.011
Pair 5	H-2 Lebaran - H+2 Lebaran	.98333	.85196	.49188	-1.13305	3.09972	1.999	2	.184
Pair 6	H-2 Lebaran - H+3 Lebaran	-.85000	1.61787	.93408	-4.86901	3.16901	-.910	2	.459
Pair 7	H-2 Lebaran - Hari Normal	-1.85000	.63836	.36856	-3.43577	-.26423	-5.020	2	.037
Pair 8	H+2 Lebaran - H+3 Lebaran	-1.83333	2.46188	1.42136	-7.94897	4.28231	-1.290	2	.326
Pair 9	H+2 Lebaran - Hari Normal	-2.83333	.30139	.17401	-3.58202	-2.08465	-16.283	2	.004
Pair 10	H+3 Lebaran - Hari Normal	-1.00000	2.20851	1.27508	-6.48623	4.48623	-.784	2	.515

9f. Uji Beda Kelembapan

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
					95% Confidence Interval of the Difference				
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper			
Pair 1	H-3 Lebaran - H-2 Lebaran	13.88333	3.90203	2.25284	4.19015	23.57651	6.163	2	.025
Pair 2	H-3 Lebaran - H+2 Lebaran	6.66667	4.56545	2.63586	-4.67454	18.00787	2.529	2	.127
Pair 3	H-3 Lebaran - H+3 Lebaran	12.00000	5.53263	3.19427	-1.74382	25.74382	3.757	2	.064
Pair 4	H-3 Lebaran - Hari Normal	19.51667	3.80701	2.19798	10.05953	28.97381	8.879	2	.012
Pair 5	H-2 Lebaran - H+2 Lebaran	-7.21667	6.77059	3.90900	-24.03573	9.60240	-1.846	2	.206
Pair 6	H-2 Lebaran - H+3 Lebaran	-1.88333	4.88783	2.82199	-14.02536	10.25870	-.667	2	.573
Pair 7	H-2 Lebaran - Hari Normal	5.63333	.40723	.23511	4.62173	6.64494	23.960	2	.002
Pair 8	H+2 Lebaran - H+3 Lebaran	5.33333	10.01665	5.78312	-19.54941	30.21608	.922	2	.454
Pair 9	H+2 Lebaran - Hari Normal	12.85000	6.94622	4.01040	-4.40537	30.10537	3.204	2	.085
Pair 10	H+3 Lebaran - Hari Normal	7.51667	4.48144	2.58736	-3.61586	18.64919	2.905	2	.101

9g. Uji Beda Kecepatan Angin

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
					95% Confidence Interval of the Difference				
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper			
Pair 1	H-3 Lebaran - H-2 Lebaran	-.43333	.95044	.54874	-2.79435	1.92769	-.790	2	.512
Pair 2	H-3 Lebaran - H+2 Lebaran	-1.14333	.30925	.17854	-1.91154	-.37512	-6.404	2	.024
Pair 3	H-3 Lebaran - H+3 Lebaran	-.60000	.62450	.36056	-2.15134	.95134	-1.664	2	.238
Pair 4	H-3 Lebaran - Hari Normal	-1.03333	1.40119	.80898	-4.51408	2.44742	-1.277	2	.330
Pair 5	H-2 Lebaran - H+2 Lebaran	-.71000	.77672	.44844	-2.63949	1.21949	-1.583	2	.254
Pair 6	H-2 Lebaran - H+3 Lebaran	-.16667	.37859	.21858	-1.10715	.77381	-.762	2	.525
Pair 7	H-2 Lebaran - Hari Normal	-.60000	.52915	.30551	-1.91448	.71448	-1.964	2	.188
Pair 8	H+2 Lebaran - H+3 Lebaran	.54333	.55194	.31866	-.82775	1.91442	1.705	2	.230
Pair 9	H+2 Lebaran - Hari Normal	.11000	1.28269	.74056	-3.07638	3.29638	.149	2	.896
Pair 10	H+3 Lebaran - Hari Normal	-.43333	.77675	.44845	-2.36288	1.49621	-.966	2	.436

9h. Uji Beda Tekanan Udara

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
					95% Confidence Interval of the Difference				
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper			
Pair 1	H-3 Lebaran - H-2 Lebaran	-.57333	.92154	.53205	-2.86256	1.71590	-1.078	2	.394
Pair 2	H-3 Lebaran - H+2 Lebaran	-1.12000	1.74244	1.00600	-5.44846	3.20846	-1.113	2	.381
Pair 3	H-3 Lebaran - H+3 Lebaran	-.31000	1.31183	.75739	-3.56877	2.94877	-.409	2	.722
Pair 4	H-3 Lebaran - Hari Normal	-.44667	1.54403	.89145	-4.28225	3.38892	-.501	2	.666
Pair 5	H-2 Lebaran - H+2 Lebaran	-.54667	1.11545	.64401	-3.31760	2.22427	-.849	2	.485
Pair 6	H-2 Lebaran - H+3 Lebaran	.26333	.70316	.40597	-1.48341	2.01008	.649	2	.583
Pair 7	H-2 Lebaran - Hari Normal	.12667	.72266	.41723	-1.66851	1.92185	.304	2	.790
Pair 8	H+2 Lebaran - H+3 Lebaran	.81000	.44227	.25534	-.28865	1.90865	3.172	2	.087
Pair 9	H+2 Lebaran - Hari Normal	.67333	.52320	.30207	-.62636	1.97302	2.229	2	.156
Pair 10	H+3 Lebaran - Hari Normal	-.13667	.40017	.23104	-1.13074	.85740	-.592	2	.614

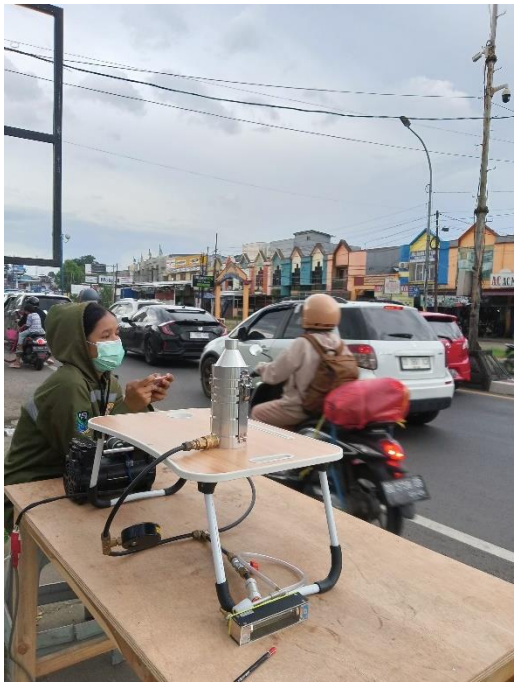
Lampiran 10 Dokumentasi

10a. H-3 Lebaran

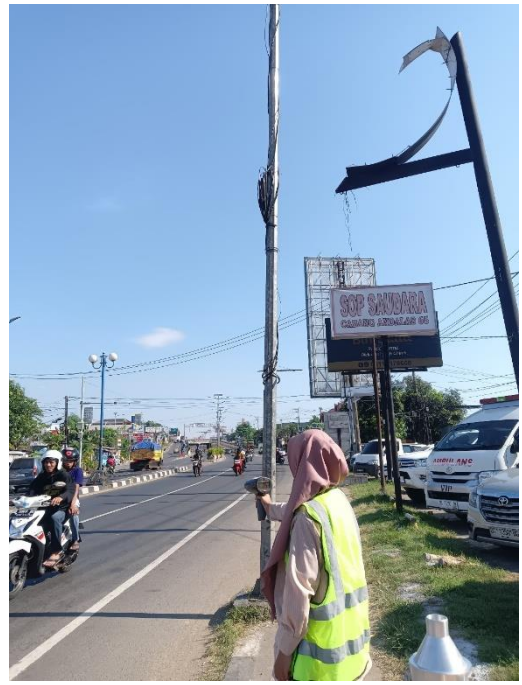
10b. H-2 Lebaran

10c. H+2 Lebaran

10d. H+3 Lebaran

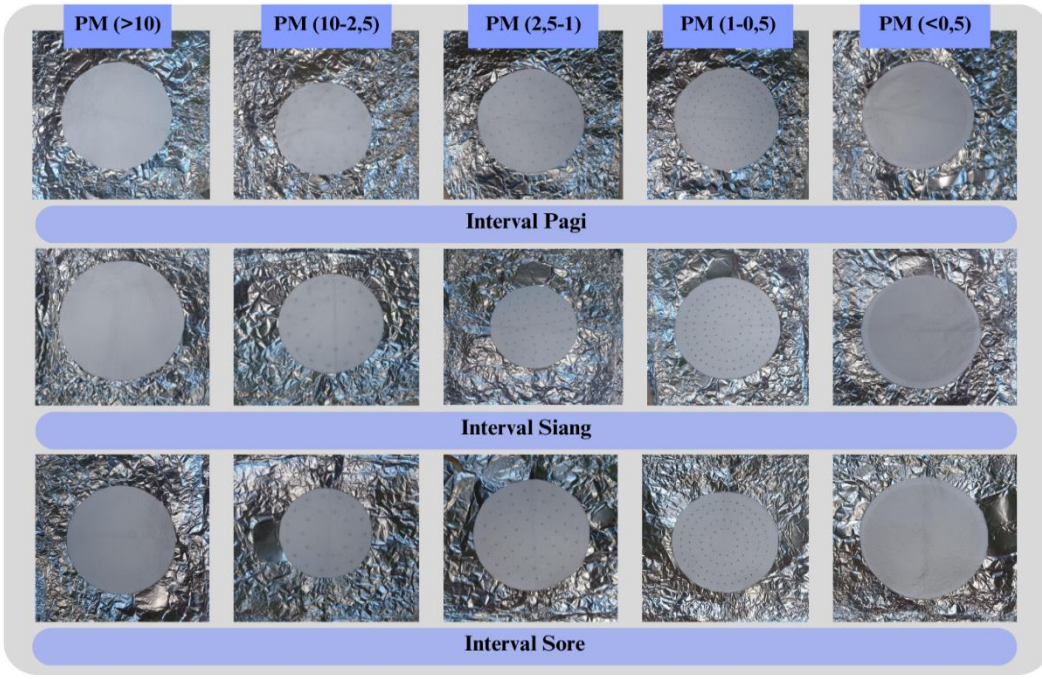


10e. Hari Normal

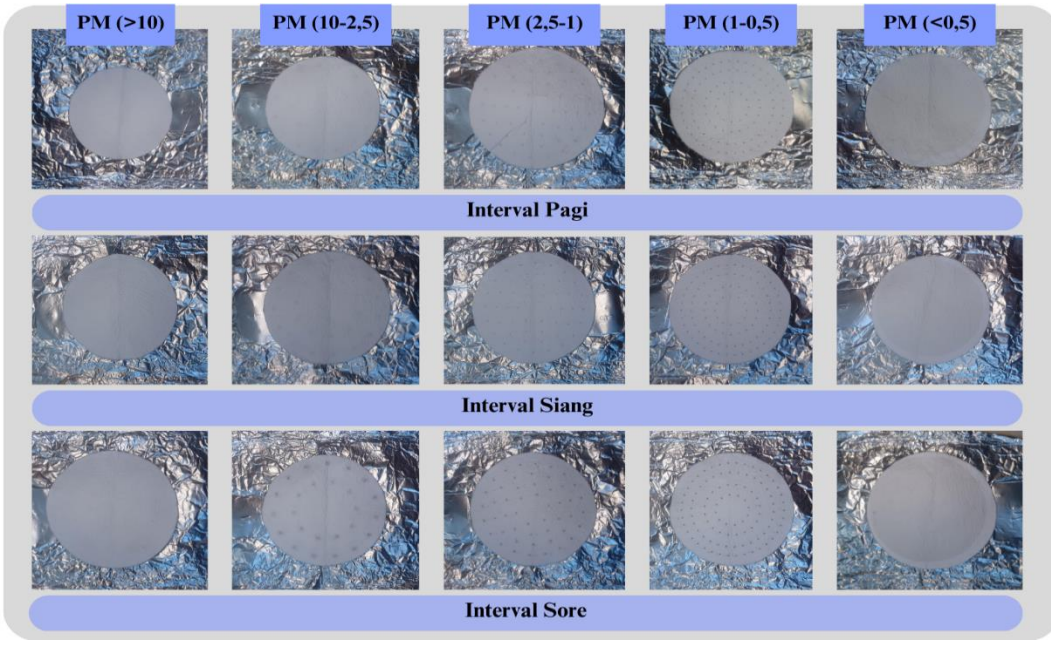

SSP SAKUSARA

Lampiran 11 Dokumentasi kertas saring hasil pengukuran

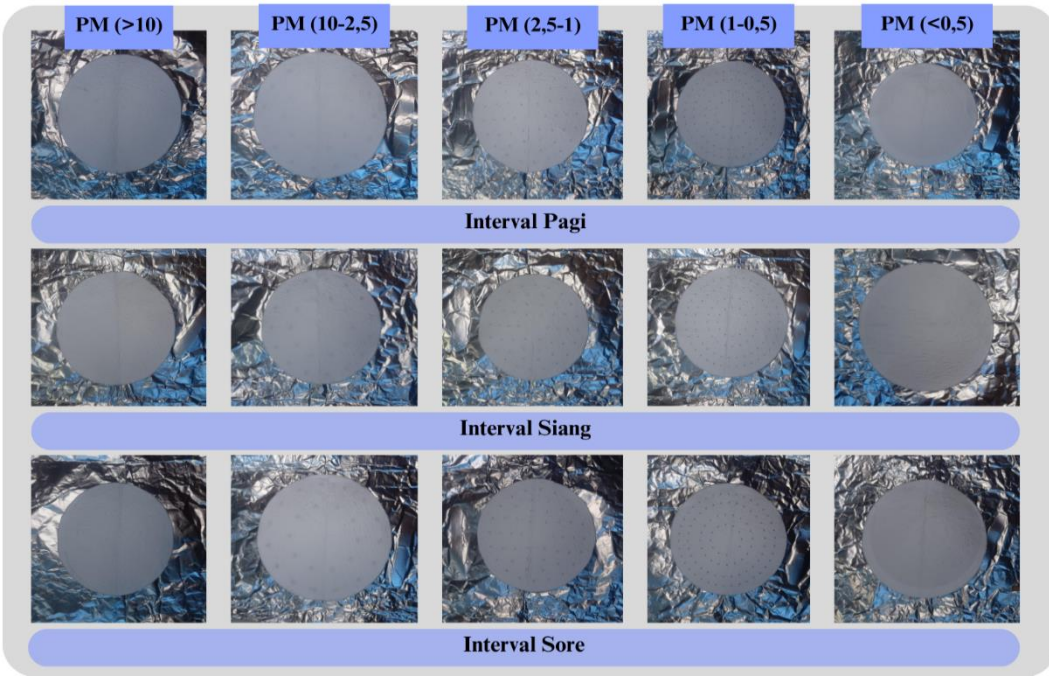
11a. H-3 Lebaran



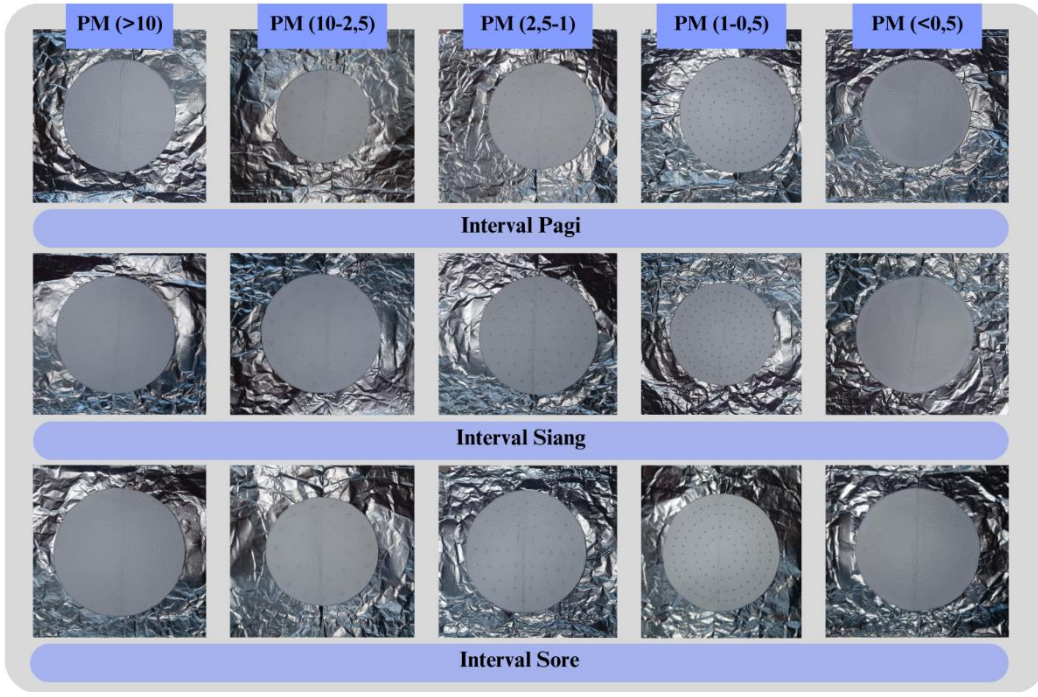
11b. H-2 Lebaran



11c. H+2 Lebaran



11d. H+3 Lebaran



11e. Hari Normal