

LAMPIRAN

Lampiran 1 Bahan Asam Sulfat 2N



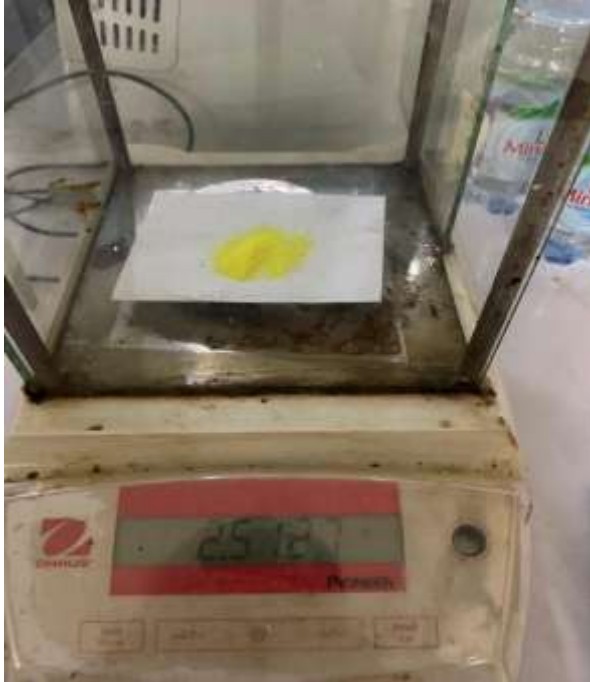
Lampiran 2 Bahan Asam Sulfat Peekat



Lampiran 3 Bahan Asam Askorbat Baku



Lampiran 4 Penimbangan Serbuk Kalium Kromat



Lampiran 5 Pembuatan Larutan Kalium Kromat 0,01 N



Lampiran 6 Pembuatan Larutan Induk Asam Askorbat 500 ppm dan Pengenceran 90 ppm



Lampiran 8 Data Penimbangan Larutan Standar Kalium Kromat

Kertas timbang + kalium kromat : 2,5127 gram

kertas timbang + sisa : 0,0127 gram

Bobot kalium kromat : 2,5 gram

Lampiran 9 Perhitungan Pembuatan Larutan Standar Kalium Kromat 0,01 N

Massa molekul relatif (Mr) $K_2CrO_4 = 194 \text{ g/mol}$

$$n = \frac{\text{Gram zat terlarut}}{\text{Mr}}$$

$$n = \frac{2,5}{1,94}$$

$$n = 0,012 \text{ mol}$$

Ekivalensi OH = 1

$$N = \frac{0,012}{V}$$

$$N = \frac{0,012 \text{ mol}}{1000 \text{ mL}}$$

$$N = 0,01$$

Lampiran 10 Perhitungan Pembuatan Larutan asam sulfat 2 N

$$M = \frac{\text{Masa jenis} \times \% \text{kemurnian}}{\text{BM}} \times 1000$$

$$B_j = 1,84 \text{ kg/L}$$

$$M = \frac{1,84 \times 96\%}{98} \times 1000$$

Pengenceran:

$$V_1 \times N_1 = V_2 \times N_2$$

$$M = 18,4 \text{ M}$$

$$V_1 \times 36,8 = 100 \text{ ml} \times 2\text{N}$$

$$N = M \times \text{Ekivalensi}$$

$$V_1 = 5,55 \text{ ml}$$

$$N = 18,4 \times 2$$

$$N = 36,8$$

Lampiran 11 Perhitungan Pengenceran Larutan Kalium Kromat 0,00063 N

$$V_1 \times N_1 = V_2 \times N_2$$

$$V_1 \times 0,01 \text{ N} = 100 \text{ ml} \times 0,00063 \text{ N}$$

$$V_1 = 6,3 \text{ ml}$$

Lampiran 12 Perhitungan Larutan Induk Asam Askorbat 1000 ppm dan Pengenceran 100 ppm

$$0,1 \text{ gram}/10\text{ml} = 10 \text{ mg}/1000 \text{ ml}$$

$$= 1000 \text{ ppm}$$

$$V_1 \times C_1 = V_2 \times C_2$$

$$V_1 \times 1000\text{ppm} = 10 \text{ ml} \times 100 \text{ ppm}$$

$$V_1 = 1 \text{ ml}$$

Lampiran 13 Perhitungan untuk Panjang Gelombang Maksimum

$$V_1 \times C_1 = V_2 \times C_2$$

$$V_1 \times 100 \text{ ppm} = 50 \text{ ml} \times 30 \text{ ppm}$$

$$V_1 = 15 \text{ ml}$$

Lampiran 14 Perhitungan Konsentrasi Kurva Baku

$$V_1 \times C_1 = V_2 \times C_2$$

$$V_1 \times C_1 = V_2 \times C_2$$

$$4 \text{ ml} \times 30 \text{ ppm} = 10 \text{ ml} \times C_2$$

$$1 \text{ ml} \times 30 \text{ ppm} = 10 \text{ ml} \times C_2$$

$$C_2 = 12 \text{ ppm}$$

$$C_2 = 3 \text{ ppm}$$

$$V_1 \times C_1 = V_2 \times C_2$$

$$V_1 \times C_1 = V_2 \times C_2$$

$$3 \text{ ml} \times 30 \text{ ppm} = 10 \text{ ml} \times C_2$$

$$0,5 \text{ ml} \times 30\text{ppm} = 10 \text{ ml} \times C_2$$

$$C_2 = 9 \text{ ppm}$$

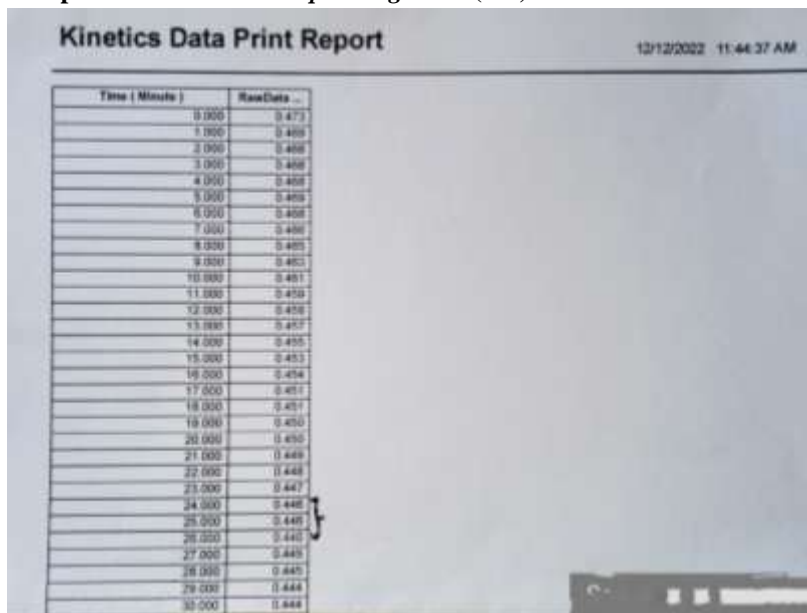
$$C_2 = 1,5 \text{ ppm}$$

$$V_1 \times C_1 = V_2 \times C_2$$

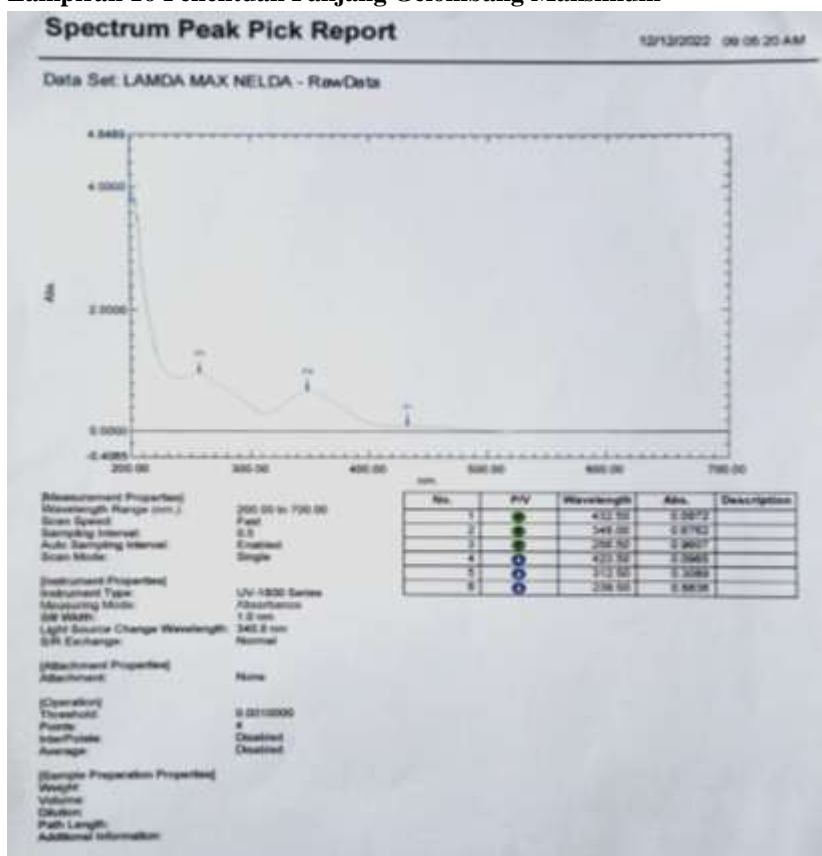
$$2 \text{ ml} \times 30 \text{ ppm} = 10 \text{ ml} \times C_2$$

$$C_2 = 6 \text{ ppm}$$

Lampiran 15 Penentuan *Operating Time* (OT)



Lampiran 16 Penentuan Panjang Gelombang Maksimum



Lampiran 17 Penimbangan Asam Askorbat

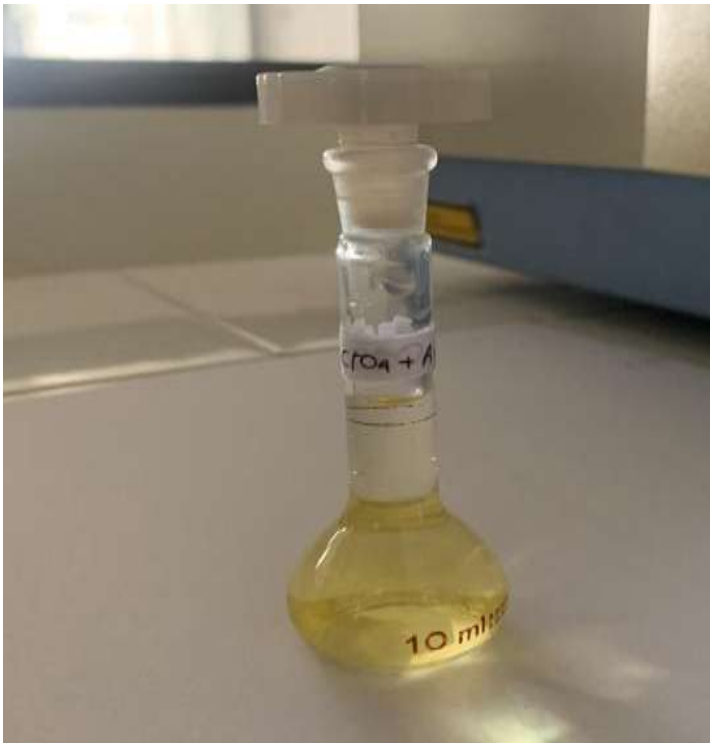


Lampiran 18 Larutan Baku Asam Askorbat 1000 ppm



Lampiran 19 Larutan Baku Asam Askorbat 100 ppm

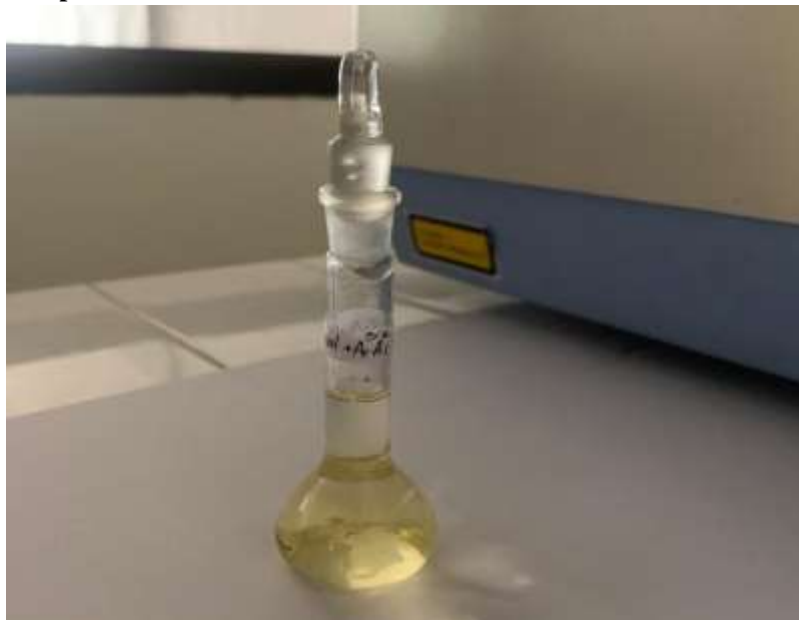


Lampiran 20 Larutan H₂SO₄ 2N**Lampiran 20 Variasi Konsentrasi 0,5 ml**

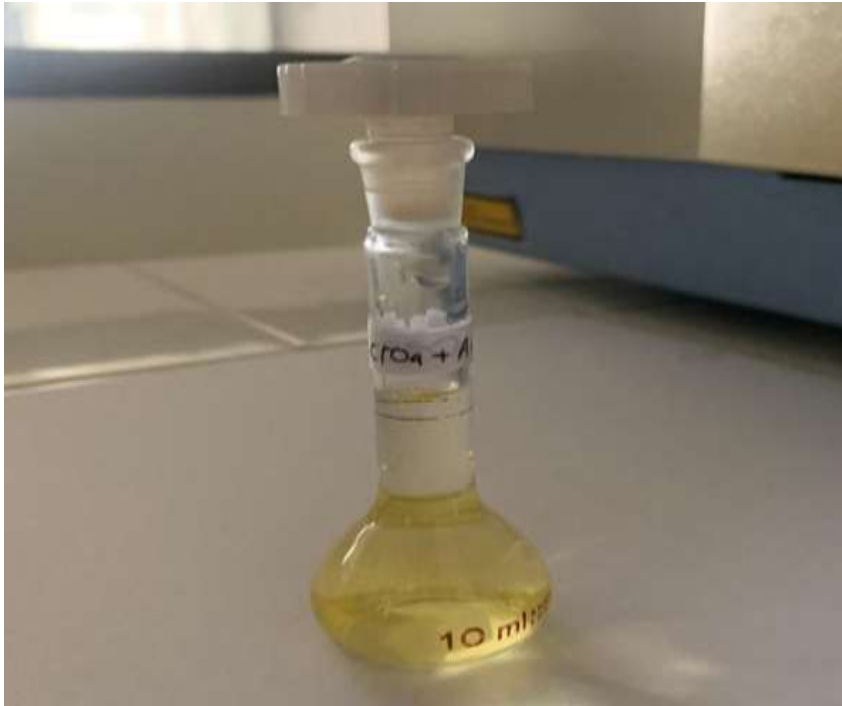
Lampiran 20 Variasi Konsentrasi 1 ml



Lampiran 20 Variasi Konsentrasi 2 ml



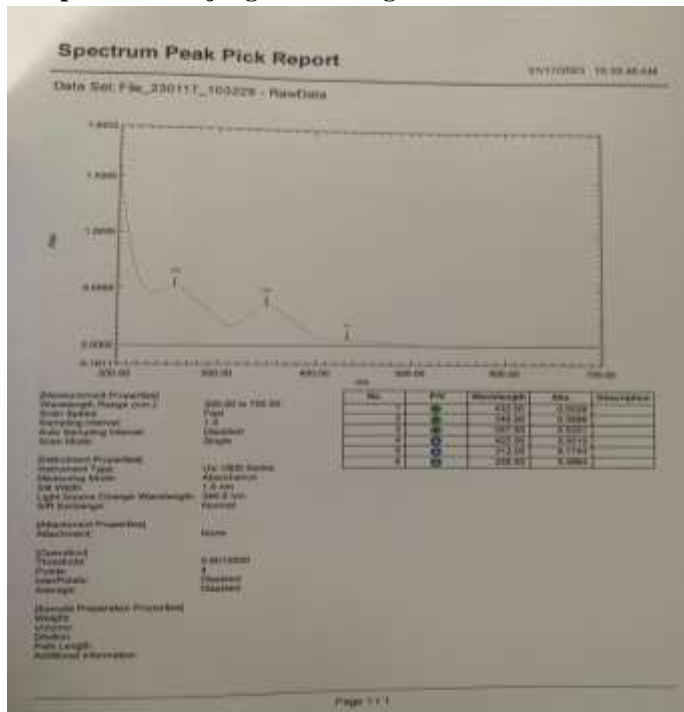
Lampiran 20 Variasi Konsentrasi 3 ml



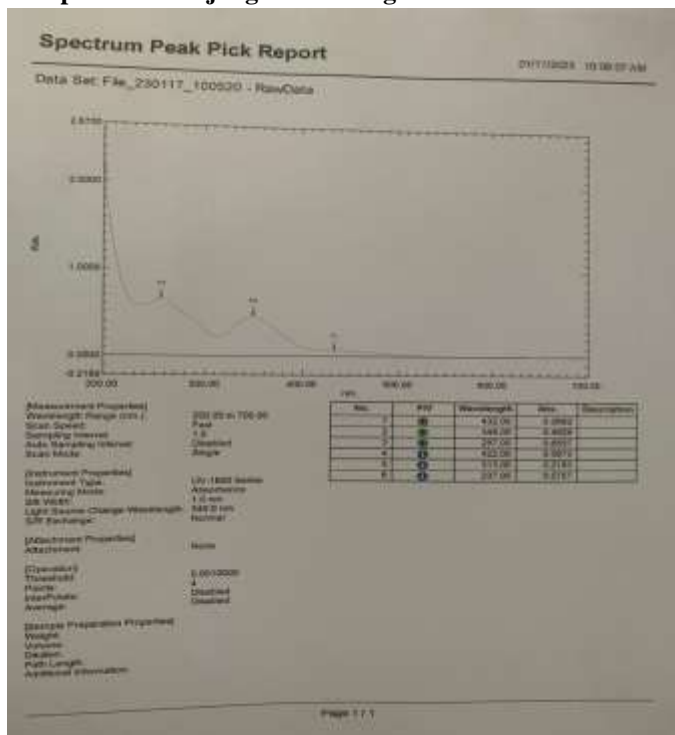
Lampiran 20 Variasi Konsentrasi 4 ml



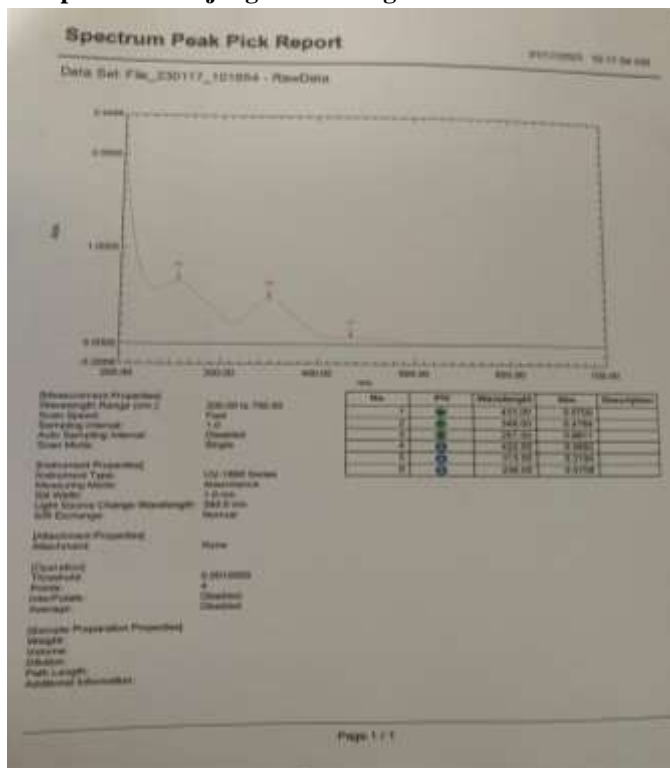
Lampiran 21 Panjang Gelombang Maksimum Variasi Konsentrasi 12 ppm



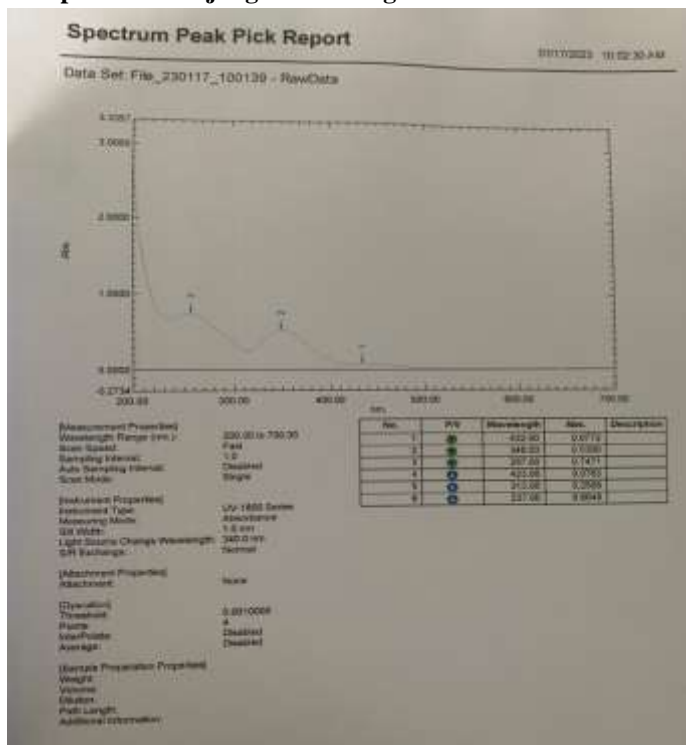
Lampiran 22 Panjang Gelombang Maksimum Variasi Konsentrasi 9 ppm



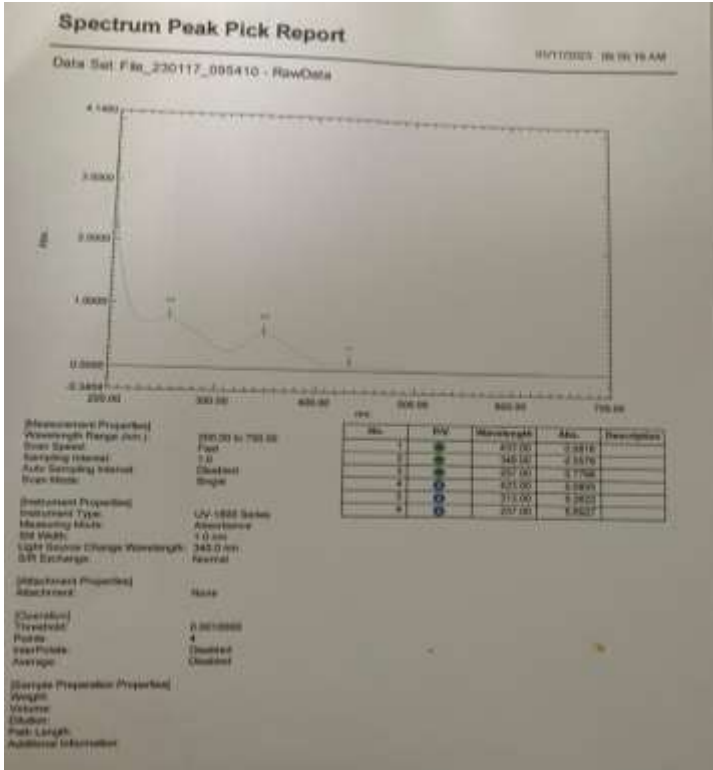
Lampiran 23 Panjang Gelombang Maksimum Variasi Konsentrasi 6 ppm



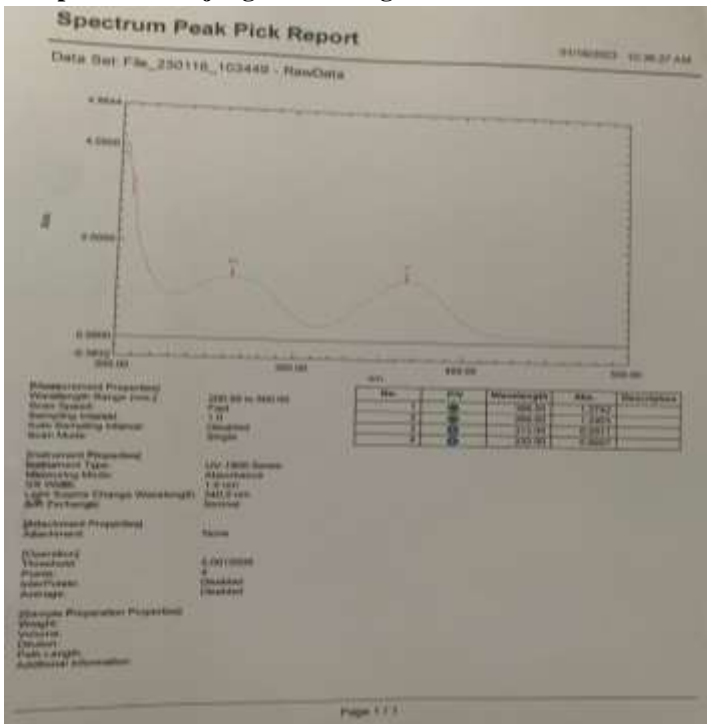
Lampiran 24 Panjang Gelombang Maksimum Variasi Konsentrasi 3 ppm



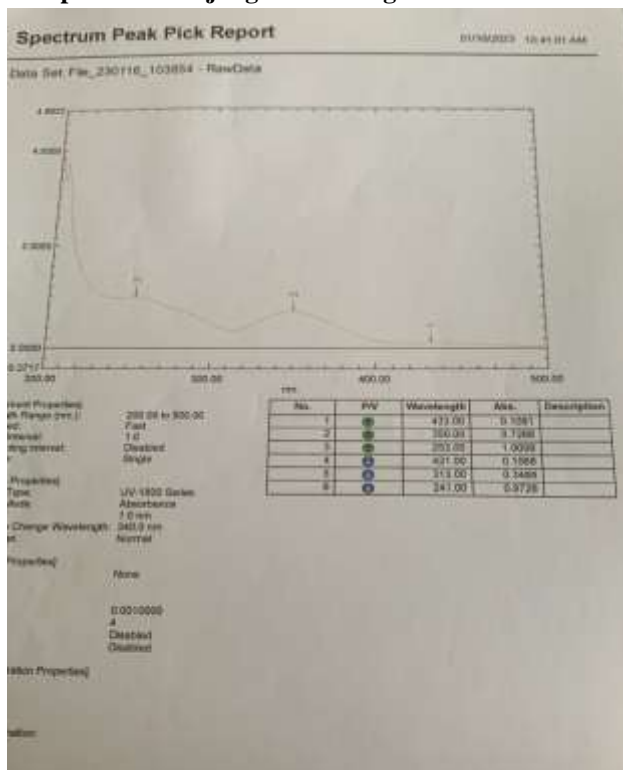
Lampiran 25 Panjang Gelombang Maksimum Variasi Konsentrasi 1,5 ppm



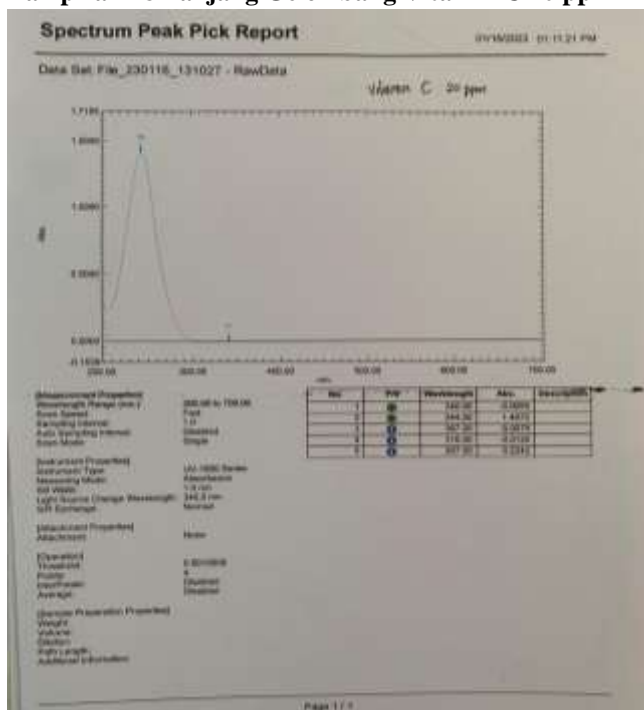
Lampiran 26 Panjang Gelombang Maksimum Kalium Kromat



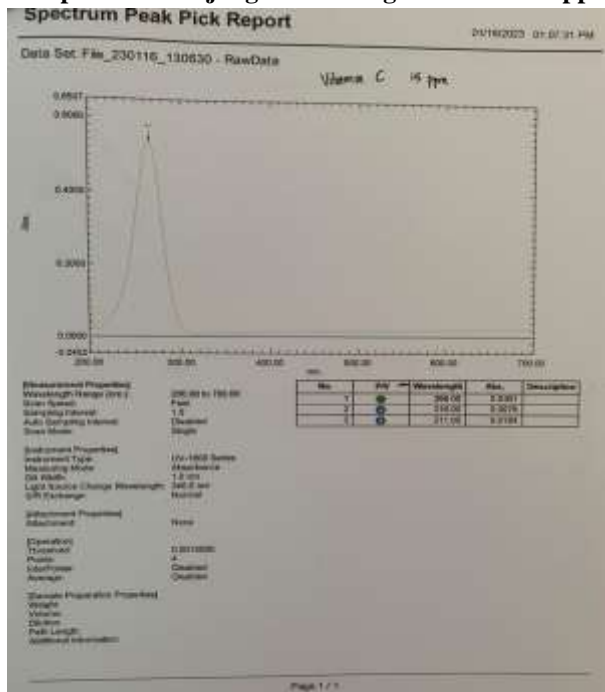
Lampiran 27 Panjang Gelombang Maksimum Kalium Kromat dan H₂SO₄



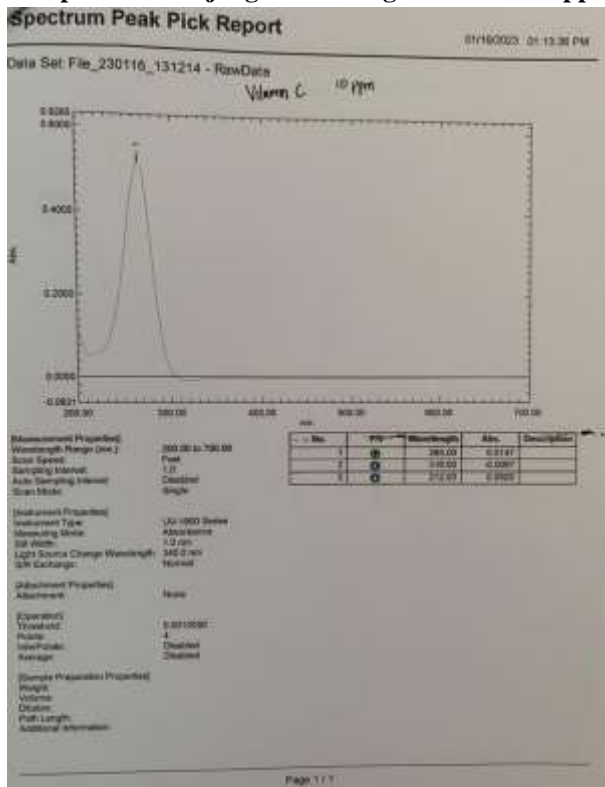
Lampiran 28 Panjang Gelombang Vitamin C 20 ppm



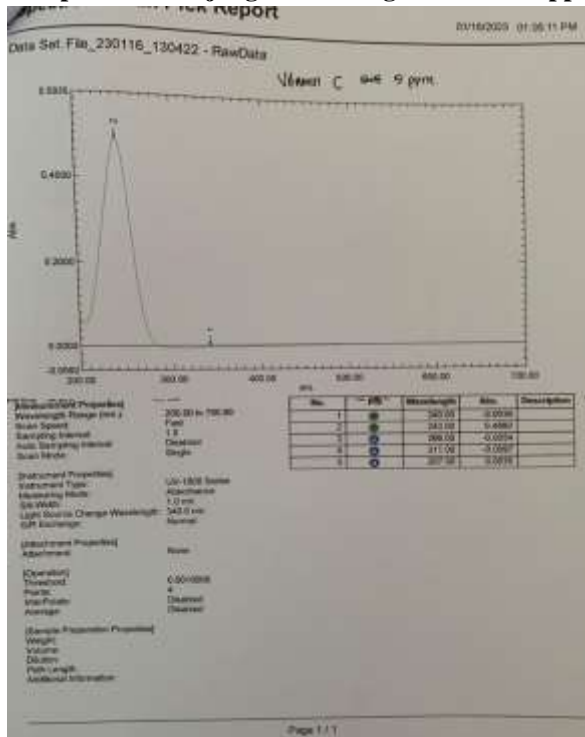
Lampiran 29 Panjang Gelombang Vitamin C 15 ppm



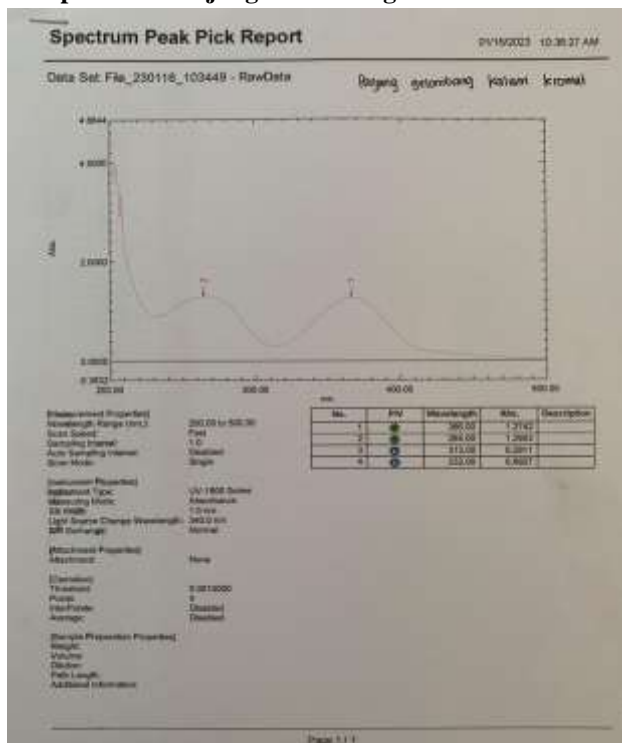
Lampiran 30 Panjang Gelombang Vitamin C 10 ppm



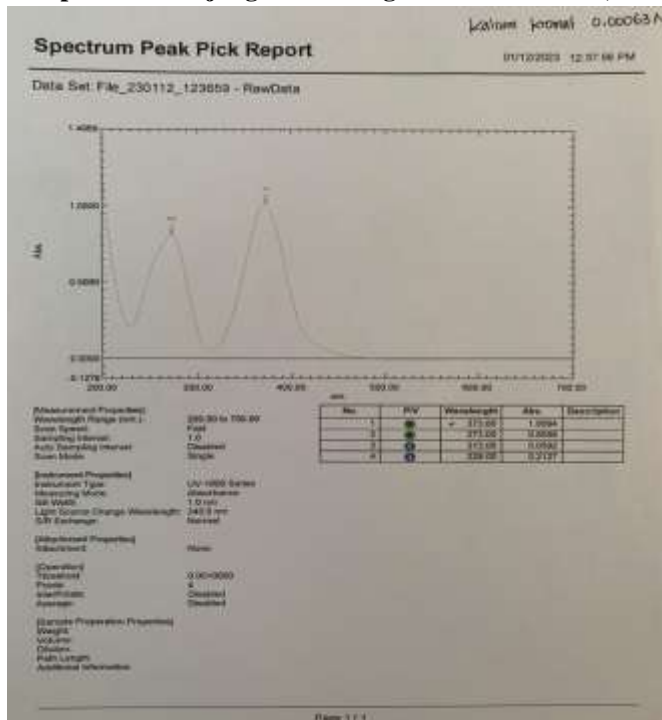
Lampiran 31 Panjang Gelombang Vitamin C 5 ppm



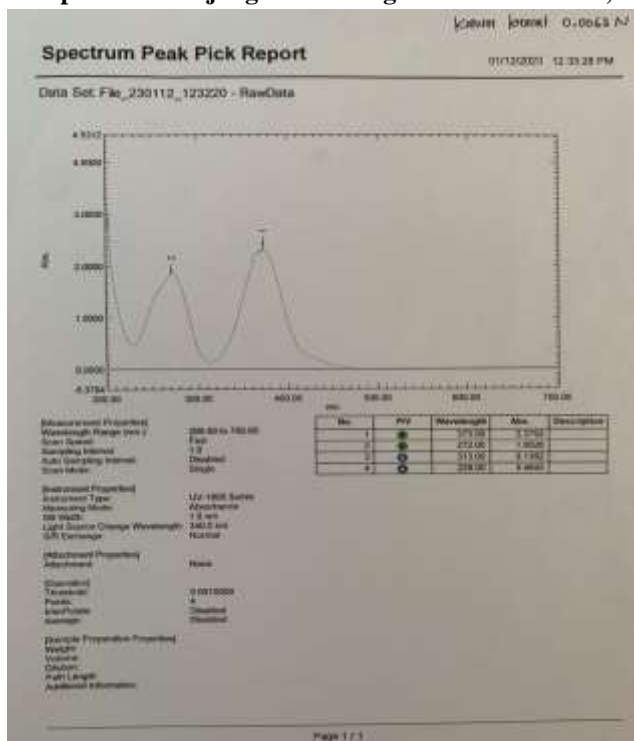
Lampiran 32 Panjang Gelombang Kalium Kromat



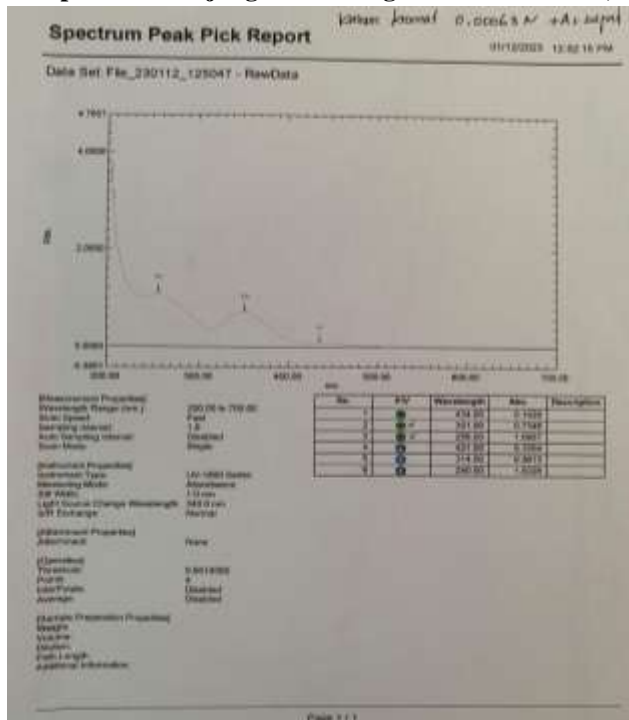
Lampiran 33 Panjang Gelombang Kalium Kromat 0,0063 N



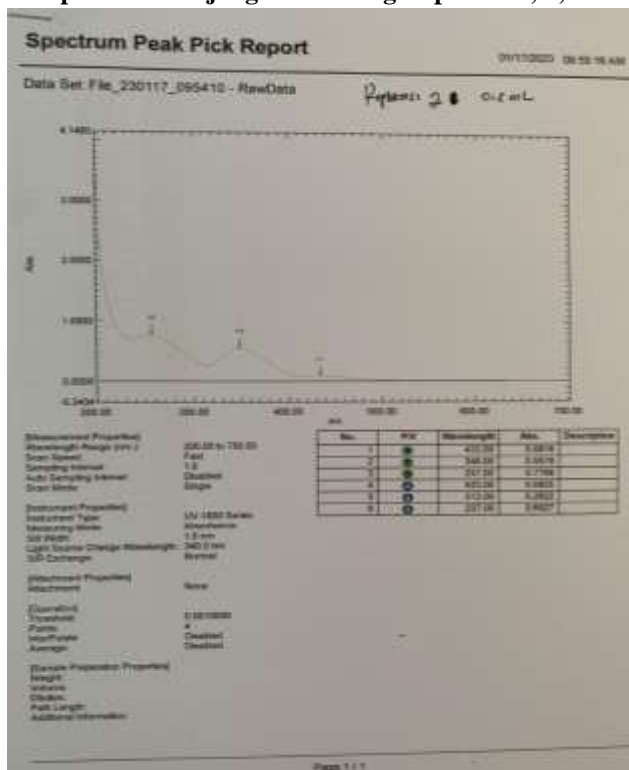
Lampiran 34 Panjang Gelombang Kalium Kromat 0,0063 N



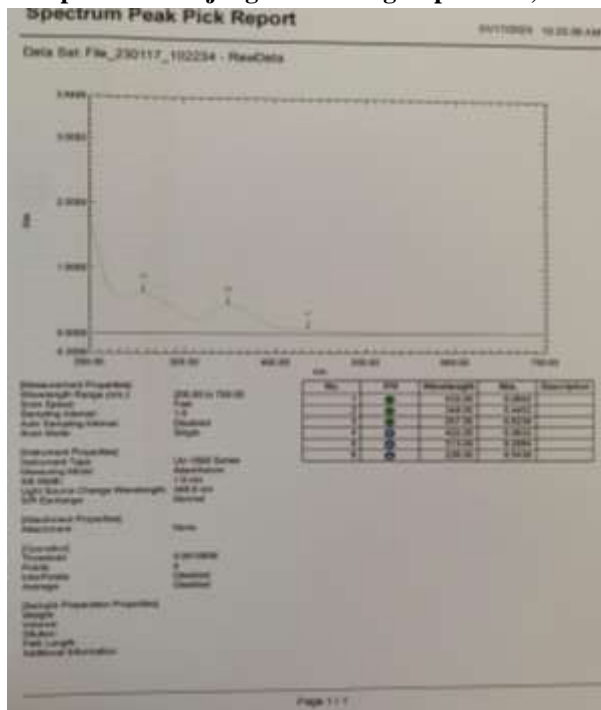
Lampiran 35 Panjang Gelombang Kalium Kromat 0,00063 N + Asam Sulfat



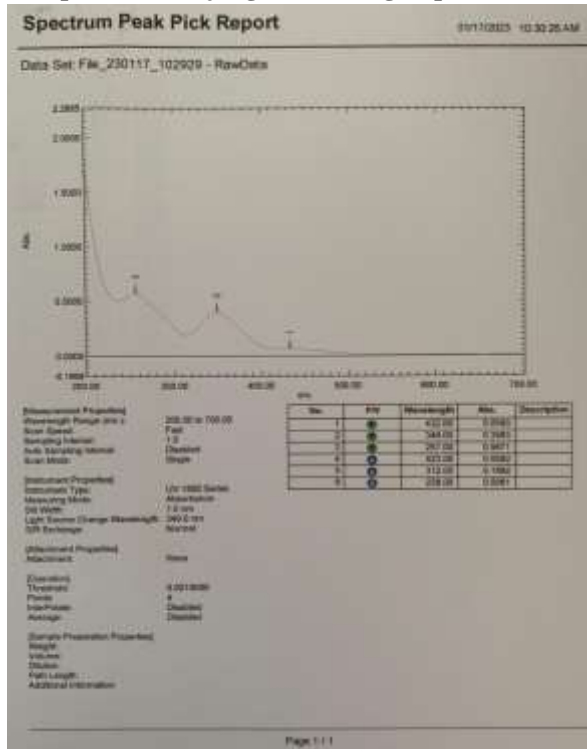
Lampiran 36 Panjang Gelombang Replikasi 2; 0,5 mL



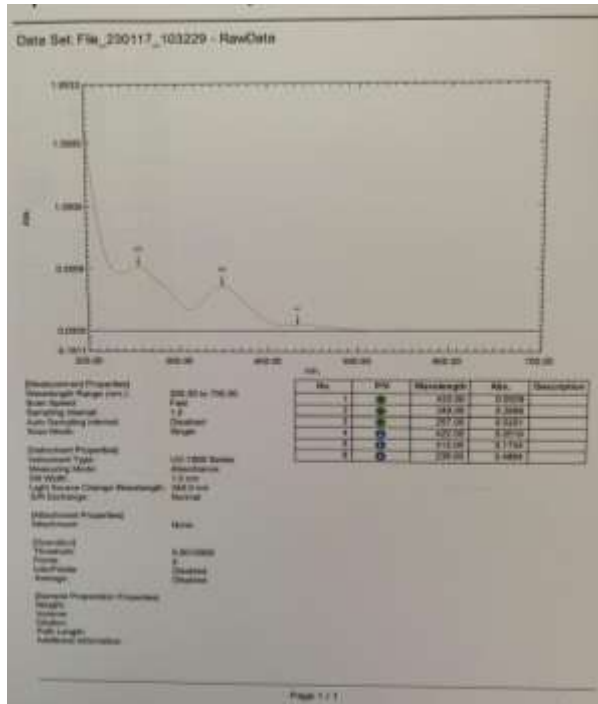
Lampiran 37 Panjang Gelombang Replikasi 2; 2 mL



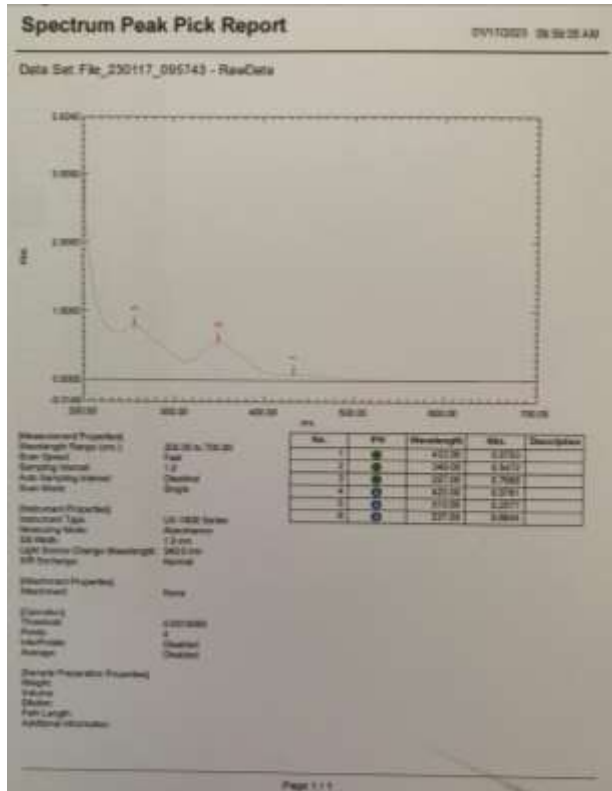
Lampiran 38 Panjang Gelombang Replikasi 2; 3 mL



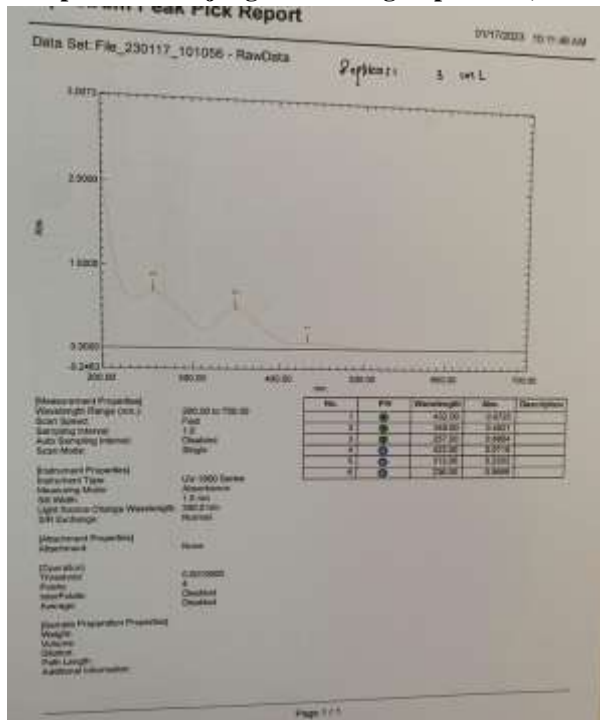
Lampiran 39 Panjang Gelombang Replikasi 2; 4 mL



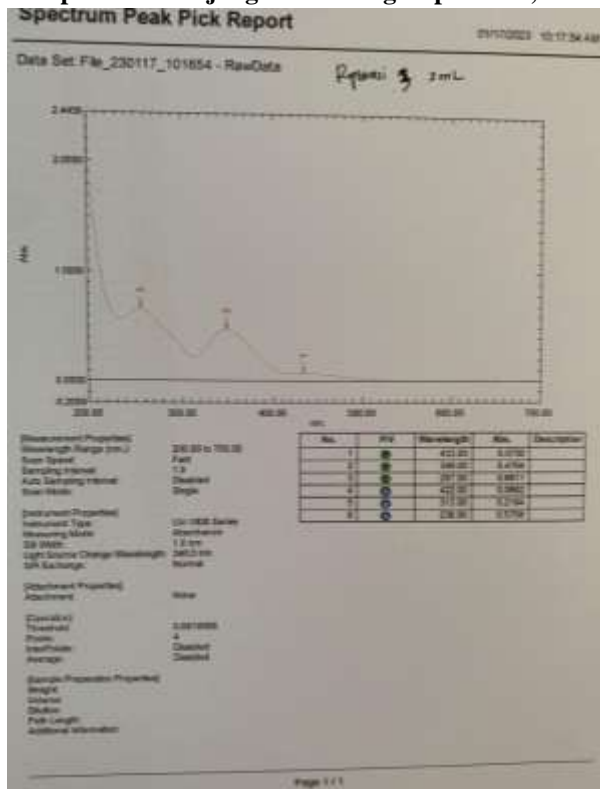
Lampiran 40 Panjang Gelombang Replikasi 3; 0,5 mL



Lampiran 41 Panjang Gelombang Replikasi 3; 1 mL



Lampiran 42 Panjang Gelombang Replikasi 3; 2 mL



Lampiran 43 Panjang Gelombang Replikasi 3; 4 mL

