

Installation Qualification for Avantor H33s Sr.No :TH23012078

Customer Name : SHRI NATH BABA HOSPITAL & RESEARCH CENTRE

Customer Address : Nagra Ballia Uttar Pradesh 277001

Contact Person : **Dr. ANKIT KUMAR**

Instrument Model : AVANTOR H33S

Serial No. : TH-23012078

Date Of installation : **01-03-2022**

The instrument was installed And was found to be working satisfactory. Preliminary Customer Training was provided And standardization of the parameters Were done. The results were found to be within the expected range and system found to be working satisfactorily.

Customer: Shri Nath Baba Hospital & Research Centre Nagra Ballia Uttar Pradesh 277001.


MRIN, Technical Services Department

Name : Kali

Contact Person : Varun K Sharma

Designation : Sr. Service Engineer

Designation : Asst. Application Manager

Signature : 



Installation Certificate For H33s Sr.No :TH23012078

This is to certify that the instrument H33s Sr.No :TH23012078 is successfully installed and commissioned at : Shri Nath Baba Hospital & Research Centre Nagra Ballia Uttar Pradesh 277001, : and the installation Protocol/ checklist has been Successfully completed for the above Instrument.

Date of Installation : 01/03/2022

MRIN, Technical Services Department

Name : Kali



Designation : Sr. Service Engineer

Installation Qualification for Avantor H33s Sr.No :TH23012078

Customer Name : Shri Nath Baba Hospital & Research Centre Nagra Ballia Uttar Pradesh 277001

Instrument Name : H33s4585

Serial No : TH23012078

Initial Inspection of the unit carried out and the details are as follows:

System Condition Report:

Found the system to have been delivered in satisfactory condition and no external physical damaged observed on the same,Package was kept in good Condition as per the directional indicators like not tilt, indicating the system has not been subjected to mechanical shocks or stored in any manner, so as to cause any damage to the same.

Found all the required accessories as required.

Intallation Procedure And Checklist Attached for the records.

External Requirement for Installation:

1. **Input voltage of 220V-240V/50Hz or 60 Hz.**
2. **Recommended operating Temperature is 15-30 degree Celsius, with in Relative Humidity 30-85% and Atmospheric pressure 70-106kPa.**

Installation Qualification for Avantor H33s Sr.No :TH23012078

Carried out all the installation procedures as per the installation procedure and checklists.

Carried out all the necessary checks and alignments.

Carried out all the necessary system checks and tests.

Handover the Instrument for operatos Training And Qualifications

For MRIN, Technical Services Department

Name : Kali 

Designation : Sr. Service Engineer

Performance Qualification for H33s Sr.No :TH23012078

Calibration Parameters

Checked and found all the control [parameters to be with in the acceptable CV limits and in range.

Checked and found all controls to be within The acceptable SD.

System Certification:

Study data has determined that the system described in this document either meets thenecessary criteria outlined inthis Performance Qualification Protocol, or exceptional conditions have been identified and documentation included.

The system is ready for Specific Usage.

Protocol Performed By:

Name : Varun Kumar Sharma



Designation :Asst. Application Manager

PERFORMANCE QUALIFICATION DONE BY

Name : Varun Kumar Shrama



Designation : Asst. Appplication Manager

Operation Qualification for H33s Sr.No :TH23012078

System Certification:

Study data has determined that the system described in this document either meets all criteria outlined in this Operational Protocol, or exceptional conditions have been identified and documentation included.

Exceptional Conditions, If any Have been Addressed.

The System is ready for specific usage.

Protocol Performed by : MRIN, Ahmedabad

Name: Kali 

Designation: Sr. Service Engineer

Customer Authorization : Shri Nath Baba Hospital & Research Centre

Nagra Ballia Uttar Pradesh 277001

Name : **Dr,ANKIT**
Designation : **Lab Owner**

Company Representative Name And Sign

Mr. Kali 

Date: 01/03/2022

Customer Name And Sign

Dr. ANKIT KUMAR

Date: 01/03/2022

Operation Qualification for H33s Sr.No :TH23012078

1. Verified all the Mechanical Movements : Done
2. Verifeied Hydraulics : Done
3. Verified Electrical Systems : Done
4. Verified the all reagents Systems : Done

MRIN, Technical Services Department

Name : Kali 

Designation : Sr. Service Engineer

Date : 01/03/2022

Instrument Setup

1. Assembled the instrument accessories.
2. Removed the shipping Clamps.
3. Connected the LYSE REAGENT .
4. Connected the DILUENT REAGENT.
5. Connected the Waste Tubing
6. Connected the Power cord and connection cord.
7. Initialise the machine and follow the installation procedure.

Operational Inspection

1. Checked and found Mechanical Movements OK.
2. Checked and found Hydraulics OK.
3. Checked and found Electricals OK.
4. Checked with Controls And Samples, Results Are found OK.

MRIN, Technical Services Department

Name : Kali

A handwritten signature in blue ink, appearing to be 'Kali', written over a faint horizontal line.

Designation : Sr. Service Engineer

BC30

HEMATOLOGY ANALYSER

CALIBRATION CERTIFICATE

FOR

: SHRI NATH BABA HOSPITAL & RESEARCH CENTRE

BY

AVANTOR PERFORMANCE MATERIALS INDIA LIMITED

CERTIFICATE OF QUALITY
CONTROLS


INSTRUMENT NAME : BC30
SERIAL NUMBER : TH-23012078
CUSTOMER NAME : SHRI NATH BABA HOSPITAL & RESEARCH CENTRE
ADDRESS : Nagra Ballia Uttar Pradesh 277001

THE UNDERSIGNED PERFORMERS CERTIFY THAT THE INSTALLATION QUALIFICATION PROTOCOL HAS BEEN SUCCESSFULLY COMPLETED FOR THE INSTRUMENT STATED ABOVE.

ENGINEER

Signature : 
Name : Jinesh Vadera
Designation : Regional Service Manager
Company : AVANTOR PERFORMANCE MATERIALS INDIA LIMITED

LABORATORY

Signature : 
Name : Varun K Sharma

PQ BEFOR CALIBRATION

PQ Protocol: -

1. Background check
2. Reproducibility Check
3. Carry over check

BACKGROUND CHECK:

Serial No. TH-23012078
Mode WB
Substance Blood sample
Number of Summaries 5

Mode	WB							
	Select	Date/Time	Operator	WBC	RBC	HGB	HCT	PLT
5	Yes	18-12-2023 12:17	service	0	0	0	0	0
4	Yes	18-12-2023 12:16	service	0	0	0	0	0
3	Yes	18-12-2023 12:15	service	0	0	0	0	0
2	Yes	18-12-2023 12:14	service	0	0	0	0	0
1	Yes	18-12-2023 12:12	service	0	0	0	0	0
Limit				0.2	0.02	0.1	0.5	5
Result				Pass	Pass	Pass	Pass	Pass
Number of Summaries	5							



Jinesh Vadera
 Regional Service Manager

REPRODUCIBILITY CHECK:

Serial No. TH-23012078
 Mode WB
 Substance Blood
 sample Number of Summaries 5
 Lot No. patient sample

	Select	Date/Time	Operator	WBC	RBC	HGB	MCV	PLT	Lymph%	Mid%	Gran%	RDW-CV	RDW-SD	MPV
20	Yes	18-12-2023 15:42	service	11.7	5.57	14.3	88.6	367	32	16.1	51.9	15.7	49.5	10.2
19	Yes	18-12-2023 15:41	service	11.1	5.44	14.4	88.9	360	34.3	15.5	50.2	15.9	50.6	10.5
18	Yes	18-12-2023 15:40	service	11.1	5.6	14.3	88.8	388	32.6	15.1	52.3	15.6	49.6	10.4
17	Yes	18-12-2023 15:39	service	10.9	5.74	14.4	88.9	390	32.8	16.3	50.9	15.9	50.5	10.4
16	Yes	18-12-2023 15:38	service	11.3	5.69	14.3	88.7	392	34.3	15.8	49.9	15.9	50.3	10.4
15	Yes	18-12-2023 15:37	service	11.3	5.72	14.4	88.9	398	35.3	15.3	49.4	15.8	50.1	10.4
14	Yes	18-12-2023 15:36	service	11.2	5.71	14.3	89	392	32.6	16.1	51.3	15.9	50.4	10.2
13	Yes	18-12-2023 15:05	service	11.2	5.61	14.4	88.9	383	33.1	15.6	51.3	15.8	50	10.3
12	Yes	18-12-2023 14:59	service	11.1	5.21	14.3	89.2	370	32.5	15.4	52.1	15.6	49.7	10.4
11	Yes	18-12-2023 14:57	service	11	5.5	14.3	88.9	388	33.2	15.5	51.3	15.9	50.3	10.3
10	Yes	18-12-2023 14:55	service	11	5.58	14.2	88.9	392	31.9	16.5	51.6	15.7	49.9	10.4
9	Yes	18-12-2023 14:54	service	11	5.57	14.2	89	382	35.1	15.2	49.7	15.9	50.5	10.3
8	Yes	18-12-2023 14:51	service	11.1	5.52	14.2	88.9	388	34	15.7	50.3	15.7	49.7	10.3
7	Yes	18-12-2023 14:48	service	10.9	5.49	14.2	88.8	393	35.6	14.9	49.5	15.8	50.1	10.5
6	Yes	18-12-2023 14:45	service	11.1	5.57	14.2	89	388	34.5	15.8	49.7	16	50.6	10.4
5	Yes	18-12-2023 14:42	service	11.1	5.57	14.2	89	388	34.5	15.8	49.7	16	50.6	10.4
4	Yes	18-12-2023 14:39	service	11.3	5.73	14.1	88.9	416	33	16.4	50.6	15.8	50	10.4
3	Yes	18-12-2023 14:35	service	11.1	5.68	14.2	89.1	404	36.1	15.7	48.2	15.9	50.6	10.4
2	Yes	18-12-2023 14:31	service	11.5	5.51	14.4	89.1	397	33.9	16.1	50	15.7	50.1	10.3
1	Yes	18-12-2023 14:26	service	11.2	5.54	14.2	88.9	373	34.7	15.7	49.6	15.7	49.9	10.4
Mean				11	5.58	14.2	88.9	392	34.3	15.78	49.89	15.82	50.20	10.38
SD				0.170	0.075	0.074	0.097	11	1.225	0.487	0.51	0.123	0.343	0.06
Min				11.7	5.65	14.2	88	373	32	16.1	50.1	15.7	49.5	10.2
Max				10.9	5.76	14.4	89	390	36	16.5	51.2	16	50.6	10.3
R				0.3	0.11	0.4	0.1	14	1.2	1.6	1.1	0.3	1	0.2
d(Min)				0	0.01	0	0	1	0.1	0.2	0.2	0.1	0.2	0
d(Max)				0.2	0.07	0.3	0.1	10	0.6	1	0.6	0.2	0.6	0.1
CV %				1.530	1.348	0.519	0.109	3.1	3.2	3.087	1	0.77	0.684	0.609
Limit(%)				2.5	1.5	1.5	0.5	4	12	25	12	3.5	3.5	4
Result				Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass



Jinesh Vadera
 Regional Service Manager

CARRYOVER

3 consecutive analyses of a patient sample with high analyte concentration (H1, H2, and H3) were followed by 3 consecutive analyses of a patient sample with low analyte concentration (L1, L2, and L3). Carryover (%) was calculated from the formula: $100 * (L1-L3)/(H3-L3)$.

Serial No. TH-23012078
 Mode WB
 Substance QC-Mindray

Mode	WB					
	Date/Time	Operator	WBC	RBC	HGB	PLT
High-Level 1	18-12-2023 12:25	Service	21.3	5.69	17.4	632
High-Level 2	18-12-2023 12:26	Service	21.5	5.66	17.7	637
High-Level 3	18-12-2023 12:27	Service	21.5	5.66	17.5	644
Low-Level 1	18-12-2023 12:28	Service	2.0	2.27	6.3	66
Low-Level 2	18-12-2023 12:29	Service	2.1	2.24	6.2	65
Low-Level 3	18-12-2023 12:31	Service	2.1	2.22	6.2	66
Carryover%			0.00%	1.80%	1.10%	0.40%
Limit%			0.50%	0.50%	0.50%	1.00%



Jinesh Vadera
 Regional Service Manager

QC Before Calibration

LOW CONTROL

File No.	Lot No.	Expiration Date	QC Test Panel	Level
1	B1123	05-02-2024	WB	Low

No.	Target	Limit(#)	8
Date	/	/	18-12-2023
Time	/	/	12:31
WBC($10^9/L$)	3.5	1.5 – 2.5	2
Lymph#($10^9/L$)	1.3	1.0 – 1.6	1.3
Mid#($10^9/L$)	0.1	0.0 – 0.2	0.1
Gran#($10^9/L$)	0.2	0.4 – 0.8	0.6
Lymph%(%)	62	52.9 – 76.9	64.7
Mid%(%)	7.2	4.2-10.2	4.9
Gran%(%)	26.1	19.9 - 39.9	30.4
RBC($10^{12}/L$)	2.52	4.25 – 4.73	2.28
HGB(g/dL)	6.2	5.5 – 6.3	6.3
HCT(%)	20.6	15.7 – 18.7	17.4
MCV(fL)	80.2	72.2 – 82.2	76.3
MCH(pg)	24.6	28 – 33	27.5
MCHC(g/dL)	30.7	32.1 – 38.1	36
RDW-CV(%)	15.6	13.2 – 19.2	17
RDW-SD(fL)	50.4	42.5 – 54.5	46
PLT($10^9/L$)	54	40 – 80	66
MPV(fL)	8	6.4 – 12.4	10.1
PDW()			18.3
PCT(mL/L)			0.066
P-LCC($10^9/L$)			20
P-LCR(%)			30.4



Jinesh Vadera
Regional Service Manager

MEDIUM CONTROL

File No.	Lot No.	Expiration Date	QC Test Panel	Level
2	B1123N	05-02-2024	WB	Normal

No.	Target	Limit(#)	10
Date	/	/	18-12-2023
Time	/	/	12:23
WBC($10^9/L$)	9.8	10.8 – 7.5	8.1
Lymph#($10^9/L$)	5	4.7 – 2.3	2.7
Mid#($10^9/L$)	1	1.7 – 0.3	0.7
Gran#($10^9/L$)	3.8	5.4 – 3.4	4.7
Lymph%(%)	51.4	39.4 – 23.4	32.8
Mid%(%)	10.5	18.5 – 2.5	8.4
Gran%(%)	38.1	46.1 – 30.1	56.8
RBC($10^{12}/L$)	4.65	4.9 – 4.4	4.62
HGB(g/dL)	12.5	13.0 – 12.0	13.8
HCT(%)	42.3	46.9 – 37.7	39.6
MCV(fL)	91	96 – 86	85.7
MCH(pg)	28	30.8 – 25.2	30
MCHC(g/dL)	30.7	35.5 – 25.9	35
RDW-CV(%)	14.2	17.2 – 11.2	15.5
RDW-SD(fL)	52.4	60.4 – 44.4	47.3
PLT($10^9/L$)	244	284 - 204	284
MPV(fL)	8.1	11.1 – 5.1	9.3
PDW()			16.5
PCT(mL/L)			0.263
P-LCC($10^9/L$)			67
P-LCR(%)			23.5



Jinesh Vadera
Regional Service Manager

HIGH CONTROL

File No.	Lot No.	Expiration Date	QC Test Panel	Level
3	B1123H	05-02-2024	WB	High

No.	Target	Limit(#)	1
Date	/	/	18-12-2023
Time	/	/	12:22
WBC($10^9/L$)	21.2	23.7 – 18.7	22.4
Lymph#($10^9/L$)	8.9	10.6 – 7.2	9.3
Mid#($10^9/L$)	1.6	2.0 – 1.2	1.7
Gran#($10^9/L$)	10.7	12.4 – 9.0	11.4
Lymph%(%)	41.8	45.8 – 37.8	41.6
Mid%(%)	7.6	11.6 – 3.6	7.5
Gran%(%)	50.6	58.6 – 42.6	50.9
RBC($10^{12}/L$)	5.57	5.87 – 5.27	5.35
HGB(g/dL)	17	17.8 – 16.2	L 15.8
HCT(%)	54.7	60.2 – 49.0	50.5
MCV(fL)	98.2	103.2 – 93.8	94.5
MCH(pg)	30.5	33.6 – 27.4	29.6
MCHC(g/dL)	31.1	35.9 – 27.0	31.3
RDW-CV(%)	14.3	17.3 – 11.3	15.2
RDW-SD(fL)	57	65 - 49	52.3
PLT($10^9/L$)	495	555 - 435	H 585
MPV(fL)	8.1	11.1 – 5.1	8.4
PDW()			14.9
PCT(mL/L)			4.92
P-LCC($10^9/L$)			80
P-LCR(%)			13.7



Jinesh Vadera
Regional Service Manager

CALIBRATION FACTOR DATA

The calibrator of below mentioned lot no. has been run Ten times and its MEAN and CV% is calculated automatically and the factors are automatically obtained by the instrument.

Calibrator Lot No. BC10923C-1
Calibrator Exp. 27/01/2024
Instrument BC30
Sr. No. TH-23012078
Calibration Date 18-12-2023

	Select	WBC	RBC	HGB	MCV	PLT
		10 ⁹ /L	10 ¹² /L	g/dL	fL	10 ⁹ /L
Target		8.3	4.11	13.5	96.4	244
1	Yes	8.5	4.16	13.9	96.3	244
2	Yes	8.5	4.11	13.8	96.1	245
3	Yes	8.6	4.12	13.8	96.1	243
4	Yes	8.6	4.11	13.7	96.2	240
5	Yes	8.5	4.17	13.8	96.1	240
6	Yes	8.5	4.16	13.7	96.1	244
7	Yes	8.6	4.15	13.9	96.1	246
8	Yes	8.5	4.13	13.7	98.8	243
9	Yes	8.5	4.14	13.7	97.9	243
10	Yes	8.6	4.14	13.6	96.1	240
Mean		8.5	4.14	13.8	90.1	244
CV (%)		0.6	1	0.7	0.2	3.2
New Factor (%)		100.62	99.26	99.63	98.7	94.42
Old Factor (%)		97	100	94	100	100

CALIBRATION FACTOR: -

Parameter	Calibration Factor (%)	Date
WBC	100.62	18-12-2023
RBC	99.26	18-12-2023
HCG	99.63	18-12-2023
MCV	98.7	18-12-2023
PLT	94.42	18-12-2023

Next Calibration Due Date 18-12-2024

For Avantor Performance Materials India Limited



Jinesh Vadera
 Regional Service Manager
 +91 9820442240

QC After Calibration

LOW CONTROL

File No.	Lot No.	Expiration Date	QC Test Panel	Level
1	B1123L	05-02-2024	WB	Low

No.	Target	Limit(#)	1
Date	/	/	18-12-2023
Time	/	/	20:21
WBC($10^9/L$)	3.5	4.0 – 3.0	4
Lymph#($10^9/L$)	2.1	2.4 – 1.8	2.3
Mid#($10^9/L$)	0.6	0.9 – 0.6	0.6
Gran#($10^9/L$)	0.9	1.2 – 0.6	1.1
Lymph%(%)	57.6	48.6 – 66.6	58.4
Mid%(%)	16.3	25.3 – 7.3	15.8
Gran%(%)	26.1	35.1 – 17.1	25.8
RBC($10^{12}/L$)	2.52	2.77 – 2.27	2.43
HGB(g/dL)	6.2	6.8 – 5.6	6.6
HCT(%)	20.6	23.9 – 17.3	19.2
MCV(fL)	80.2	85.2 – 75.2	79
MCH(pg)	24.6	29.5 – 19.7	27.3
MCHC(g/dL)	30.7	38.8 – 22.6	34.5
RDW-CV(%)	15.6	18.6 – 12.6	18.3
RDW-SD(fL)	50.4	58.4 – 42.4	53.3
PLT($10^9/L$)	54	34 - 74	61
MPV(fL)	8	11 - 5	8.5
PDW()			15.3
PCT(mL/L)			0.52
P-LCC($10^9/L$)			10
P-LCR(%)			15.5



Jinesh Vadera
Regional Service Manager

MEDIUM CONTROL

File No.	Lot No.	Expiration Date	QC Test Panel	Level
2	B1123N	05-02-2024	B30	Normal

No.	Target	Limit(#)	1
Date	/	/	18-12-2023
Time	/	/	20:22
WBC($10^9/L$)	9.8	10.8 – 8.8	10.6
Lymph#($10^9/L$)	5	5.7 – 4.3	5.4
Mid#($10^9/L$)	1	1.7 – 0.3	1.1
Gran#($10^9/L$)	3.8	4.5 – 3.1	4.1
Lymph%(%)	51.4	59.4 – 43.4	50.9
Mid%(%)	10.5	18.5 – 2.5	10.3
Gran%(%)	38.1	46.1 – 30.1	38.8
RBC($10^{12}/L$)	4.65	4.9 – 4.4	4.4
HGB(g/dL)	12.5	13.0 – 12.0	12.9
HCT(%)	42.3	46.9 – 37.7	38.3
MCV(fL)	91	96 – 86	87.1
MCH(pg)	28	30.8 – 25.2	29.4
MCHC(g/dL)	30.7	35.5 – 25.9	33.8
RDW-CV(%)	14.2	17.2 – 11.2	15.7
RDW-SD(fL)	52.4	60.4 – 44.4	50.4
PLT($10^9/L$)	244	284 – 204	245
MPV(fL)	8.1	11.1 – 5.1	8.5
PDW()			15
PCT(mL/L)			2.07
P-LCC($10^9/L$)			36
P-LCR(%)			14.7



Jinesh Vadera
Regional Service Manager

HIGH CONTROL

File No.	Lot No.	Expiration Date	QC Test Panel	Level
3	B1123H	05-02-2024	B30	High

No.	Target	Limit(#)	2
Date	/	/	18-12-2023
Time	/	/	20:26
WBC($10^9/L$)	21.2	23.7 – 18.7	22.9
Lymph#($10^9/L$)	8.9	10.6 – 7.2	9.5
Mid#($10^9/L$)	1.6	2.0 – 1.2	1.8
Gran#($10^9/L$)	10.7	12.4 – 9.0	11.6
Lymph%(%)	41.8	45.8 – 37.8	41.5
Mid%(%)	7.6	11.6 – 3.6	7.9
Gran%(%)	50.6	58.6 – 42.6	50.6
RBC($10^{12}/L$)	5.57	5.87 – 5.27	5.37
HGB(g/dL)	17	17.8 – 16.2	16.6
HCT(%)	54.7	60.2 – 49.0	51.7
MCV(fL)	98.2	103.2 – 93.8	96.2
MCH(pg)	30.5	33.6 – 27.4	31
MCHC(g/dL)	31.1	35.9 – 27.0	32.2
RDW-CV(%)	14.3	17.3 – 11.3	15
RDW-SD(fL)	57	65 - 49	51.4
PLT($10^9/L$)	495	555 - 435	530
MPV(fL)	8.1	11.1 – 5.1	8.6
PDW()			15
PCT(mL/L)			4.54
P-LCC($10^9/L$)			79
P-LCR(%)			14.9



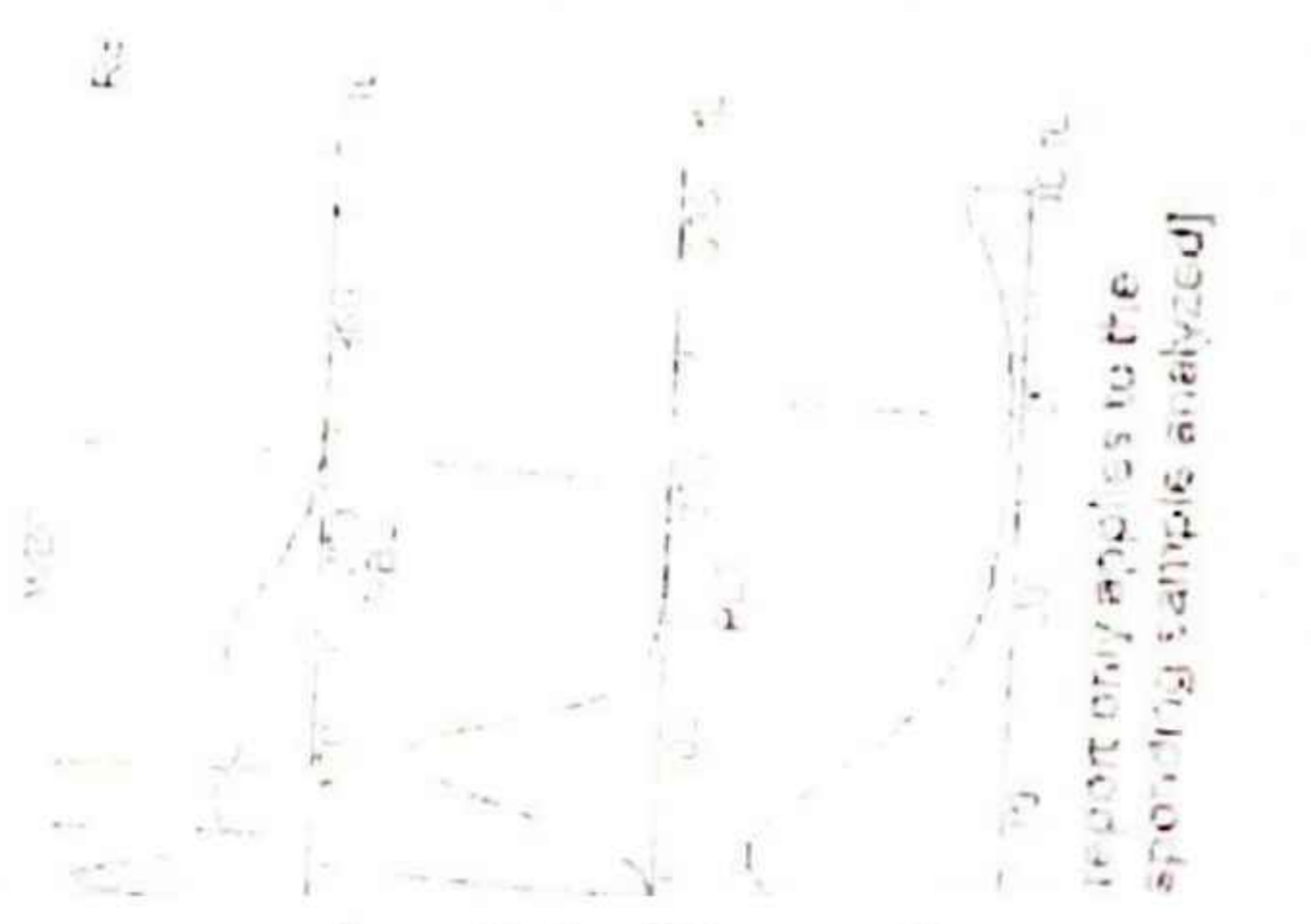
Jinesh Vadera
Regional Service Manager

Sample Report 1 to 6

Hematology Analysis Report

First Name: PS1
 Last Name: WB
 Patient ID: RS2
 Sample ID: WB
 Mode: WB
 Time of Analysis: 18/12/2023 14:26

Modules	Result	Unit
WBC	11.2	10 ⁹ /L
Lymph#	3.9	10 ⁹ /L
Mid#	1.8	10 ⁹ /L
Gran#	5.5	10 ⁹ /L
Lymph%	34.7	%
Mid%	15.7	%
Gran%	49.6	%
RBC	5.54	10 ¹² /L
HGB	14.2	g/dL
HCT	49.2	%
MCV	88.9	fL
MCH	25.6	pg
MCHC	28.8	g/dL
RDW-CV	15.7	%
RDW-SD	49.9	fL
PLT	373	10 ⁹ /L
MPV	10.4	fL
PDW	15.8	%
PCT	0.388	%
P-LCC	112	10 ⁹ /L
P-LCR	30.2	%

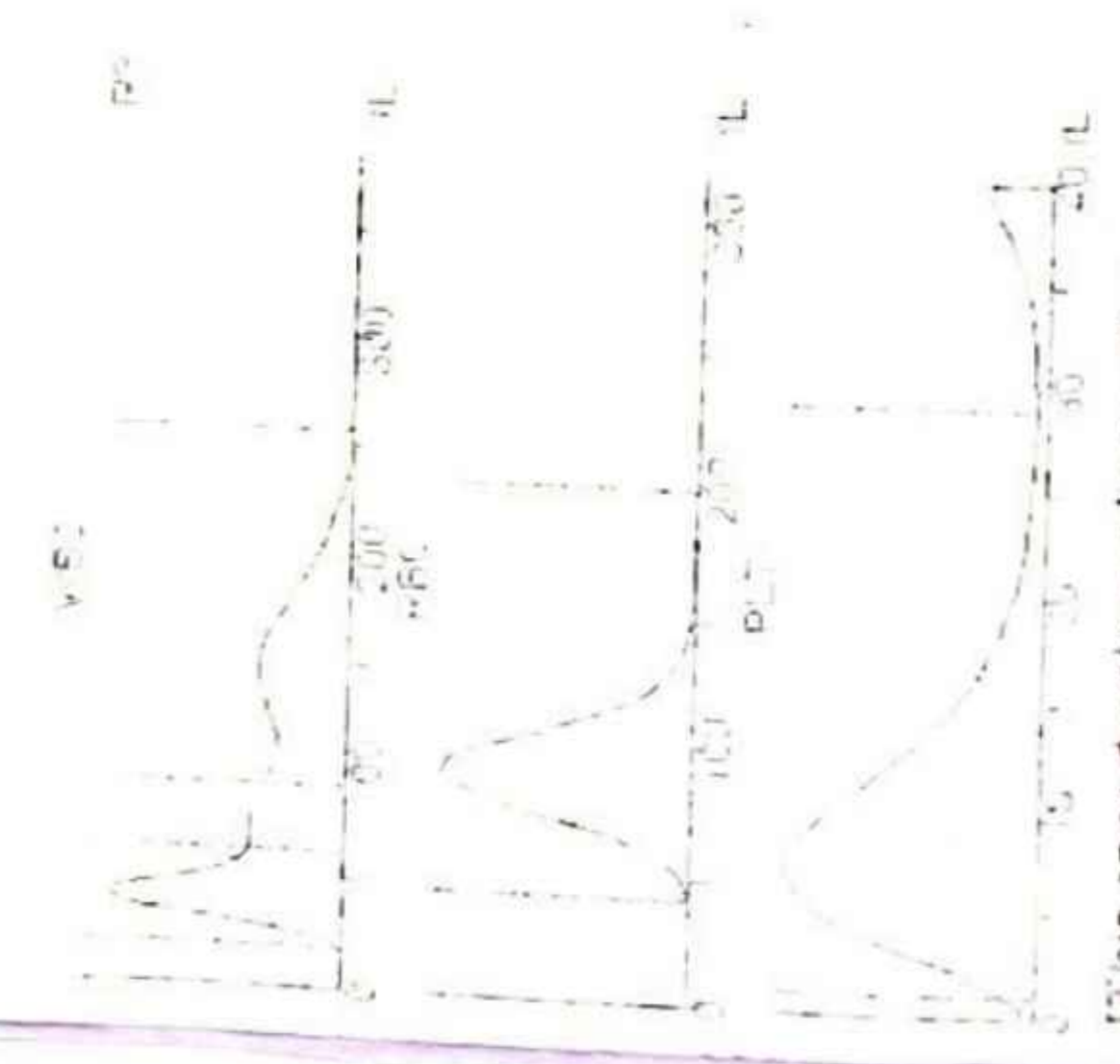


[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: PS1
 Last Name: WB
 Patient ID: RS2
 Sample ID: WB
 Mode: WB
 Time of Analysis: 18/12/2023 14:31

Modules	Result	Unit
WBC	11.5	10 ⁹ /L
Lymph#	3.9	10 ⁹ /L
Mid#	1.9	10 ⁹ /L
Gran#	5.7	10 ⁹ /L
Lymph%	33.9	%
Mid%	16.1	%
Gran%	50.0	%
RBC	5.51	10 ¹² /L
HGB	14.4	g/dL
HCT	49.1	%
MCV	89.1	fL
MCH	28.1	pg
MCHC	23.3	g/dL
RDW-CV	15.7	%
RDW-SD	50.1	fL
PLT	397	10 ⁹ /L
MPV	10.3	fL
PDW	16.2	%
PCT	0.410	%
P-LCC	110	10 ⁹ /L
P-LCR	30.1	%

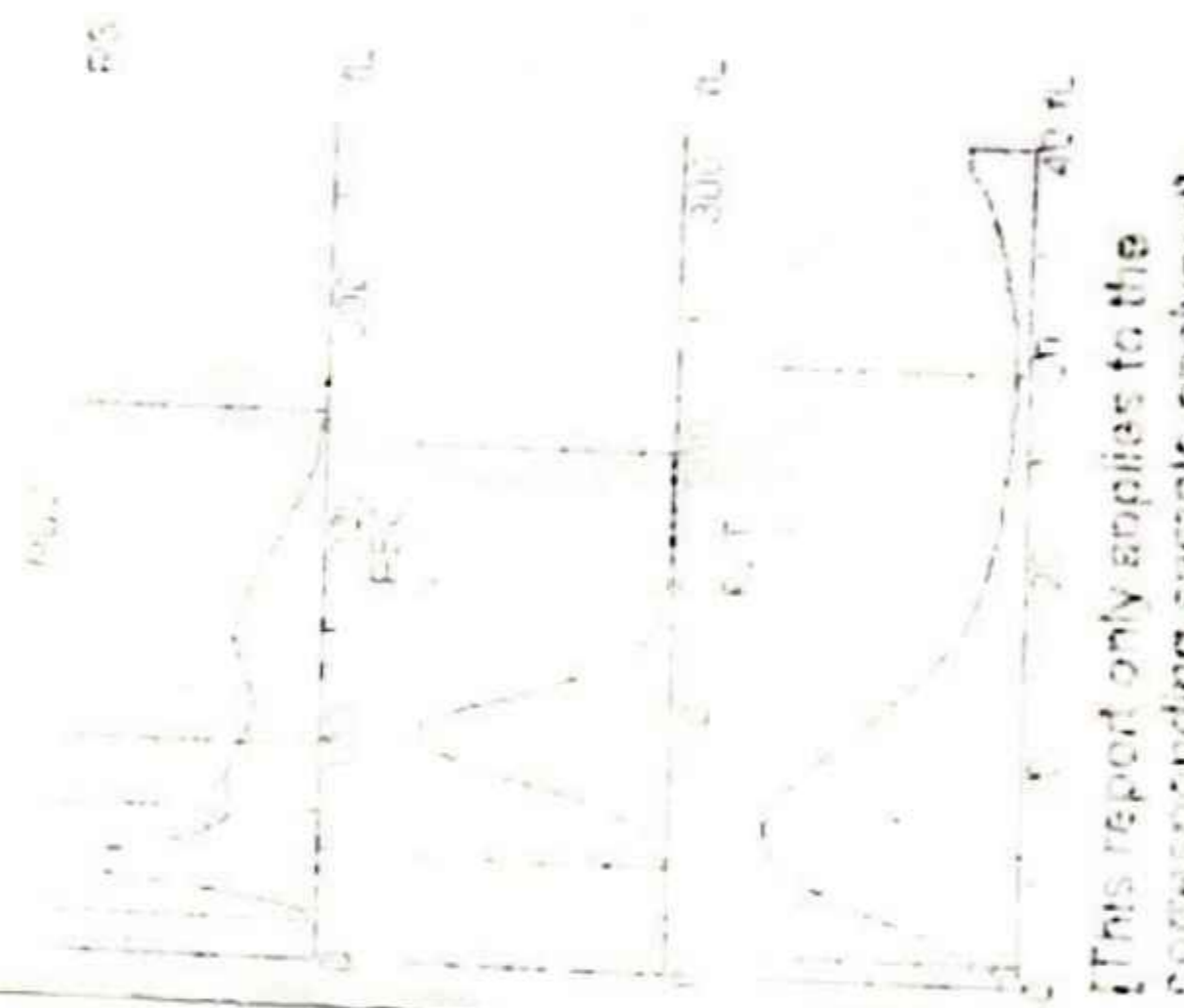


[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: PS3
 Last Name: WB
 Patient ID: RS3
 Sample ID: WB
 Mode: WB
 Time of Analysis: 18/12/2023 14:33

Modules	Result	Unit
WBC	11.1	10 ⁹ /L
Lymph#	4.0	10 ⁹ /L
Mid#	1.7	10 ⁹ /L
Gran#	5.4	10 ⁹ /L
Lymph%	36.1	%
Mid%	15.7	%
Gran%	48.2	%
RBC	5.68	10 ¹² /L
HGB	14.2	g/dL
HCT	50.6	%
MCV	89.1	fL
MCH	24.9	pg
MCHC	28.0	g/dL
RDW-CV	15.9	%
RDW-SD	50.6	fL
PLT	404	10 ⁹ /L
MPV	10.4	fL
PDW	16.4	%
PCT	0.422	%
P-LCC	125	10 ⁹ /L
P-LCR	31.0	%

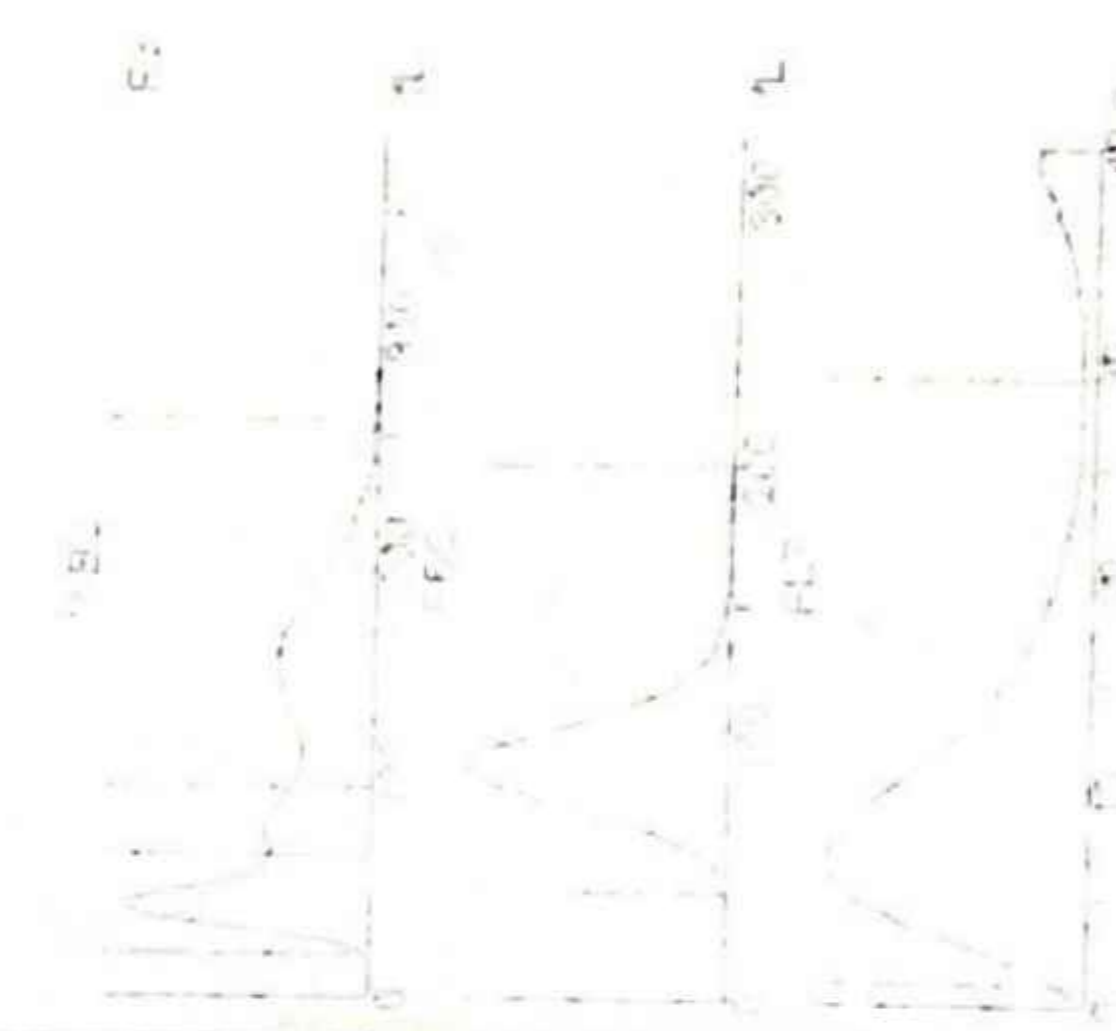


[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: RS4
 Last Name: WB
 Patient ID: RS4
 Sample ID: WB
 Mode: WB
 Time of Analysis: 18/12/2023 14:35

Modules	Result	Unit
WBC	11.3	10 ⁹ /L
Lymph#	3.7	10 ⁹ /L
Mid#	1.9	10 ⁹ /L
Gran#	5.7	10 ⁹ /L
Lymph%	33.0	%
Mid%	16.4	%
Gran%	50.6	%
RBC	5.73	10 ¹² /L
HGB	14.1	g/dL
HCT	50.9	%
MCV	88.9	fL
MCH	24.7	pg
MCHC	27.7	g/dL
RDW-CV	16.3	%
RDW-SD	50.0	fL
PLT	416	10 ⁹ /L
MPV	10.4	fL
PDW	16.2	%
PCT	0.452	%
P-LCC	128	10 ⁹ /L
P-LCR	30.4	%

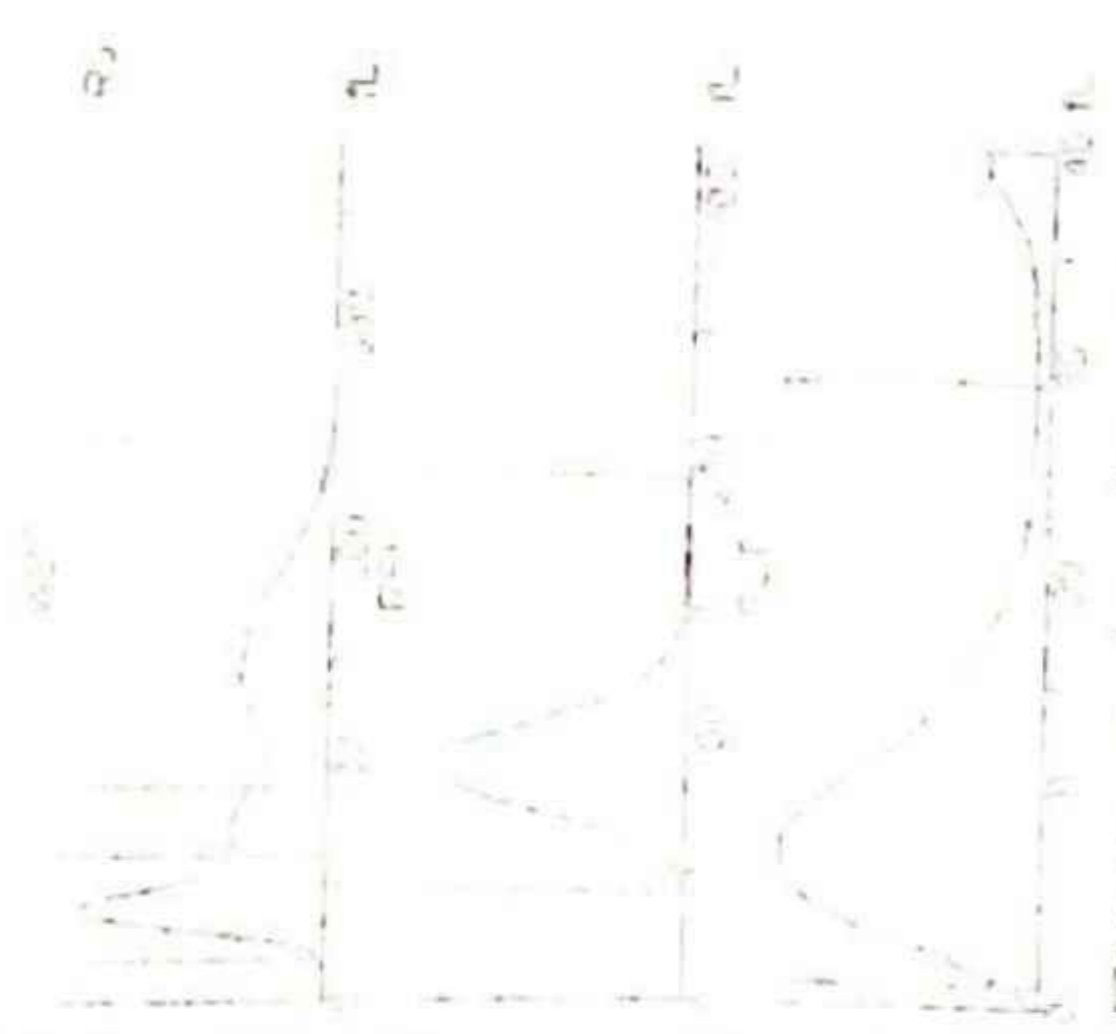


[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: RS5
 Last Name: WB
 Patient ID: RS5
 Sample ID: WB
 Mode: WB
 Time of Analysis: 18/12/2023 14:37

Modules	Result	Unit
WBC	11.1	10 ⁹ /L
Lymph#	3.8	10 ⁹ /L
Mid#	1.6	10 ⁹ /L
Gran#	5.5	10 ⁹ /L
Lymph%	34.5	%
Mid%	15.8	%
Gran%	49.7	%
RBC	5.57	10 ¹² /L
HGB	14.2	g/dL
HCT	49.6	%
MCV	89.0	fL
MCH	25.4	pg
MCHC	28.6	g/dL
RDW-CV	16.0	%
RDW-SD	50.6	fL
PLT	388	10 ⁹ /L
MPV	10.4	fL
PDW	15.2	%
PCT	0.403	%
P-LCC	115	10 ⁹ /L
P-LCR	30.3	%

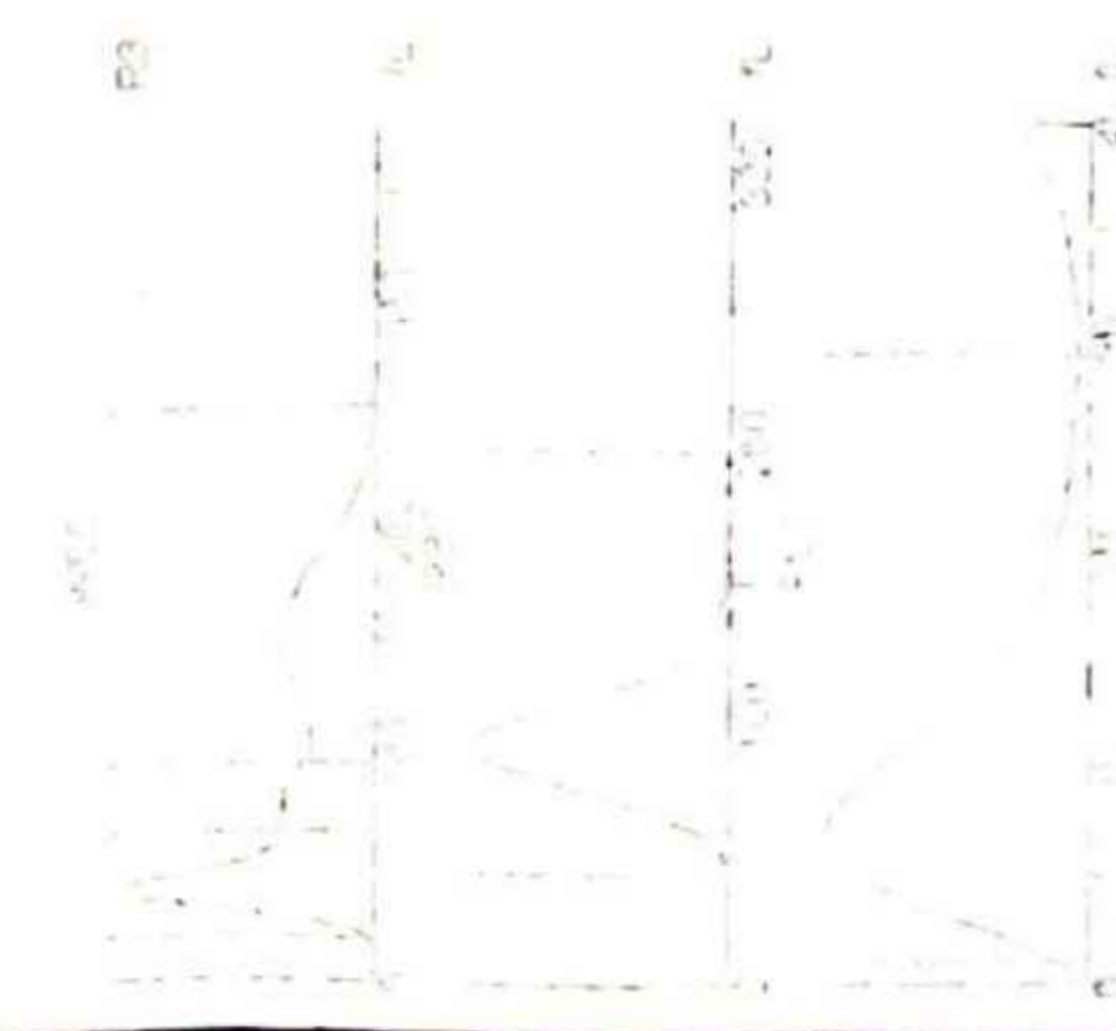


[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: RS6
 Last Name: WB
 Patient ID: RS6
 Sample ID: WB
 Mode: WB
 Time of Analysis: 18/12/2023 14:38

Modules	Result	Unit
WBC	10.9	10 ⁹ /L
Lymph#	3.9	10 ⁹ /L
Mid#	1.8	10 ⁹ /L
Gran#	5.4	10 ⁹ /L
Lymph%	35.6	%
Mid%	14.9	%
Gran%	49.5	%
RBC	5.49	10 ¹² /L
HGB	14.2	g/dL
HCT	48.8	%
MCV	88.3	fL
MCH	25.9	pg
MCHC	29.2	g/dL
RDW-CV	15.6	%
RDW-SD	50.1	fL
PLT	393	10 ⁹ /L
MPV	10.5	fL
PDW	16.2	%
PCT	0.412	%
P-LCC	121	10 ⁹ /L
P-LCR	30.8	%

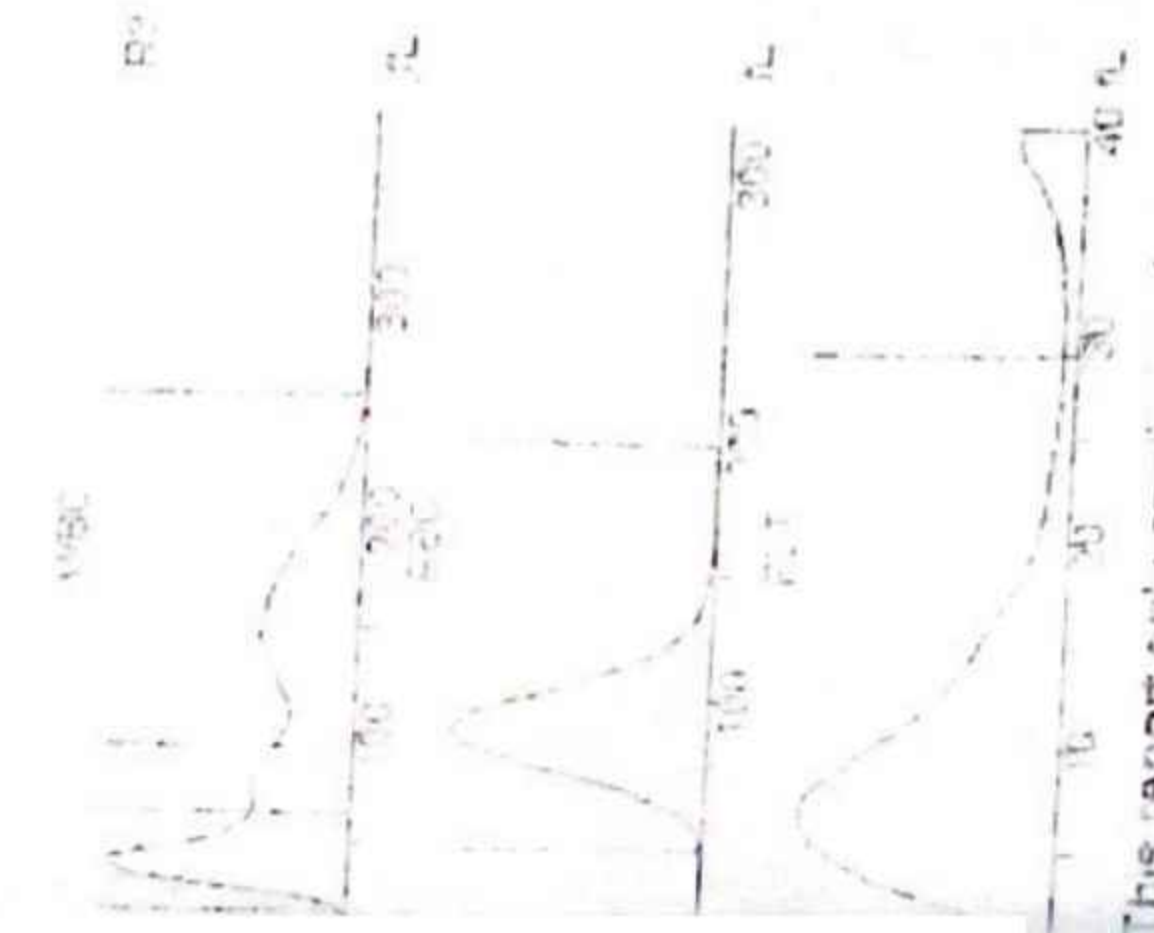


[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 14:40

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

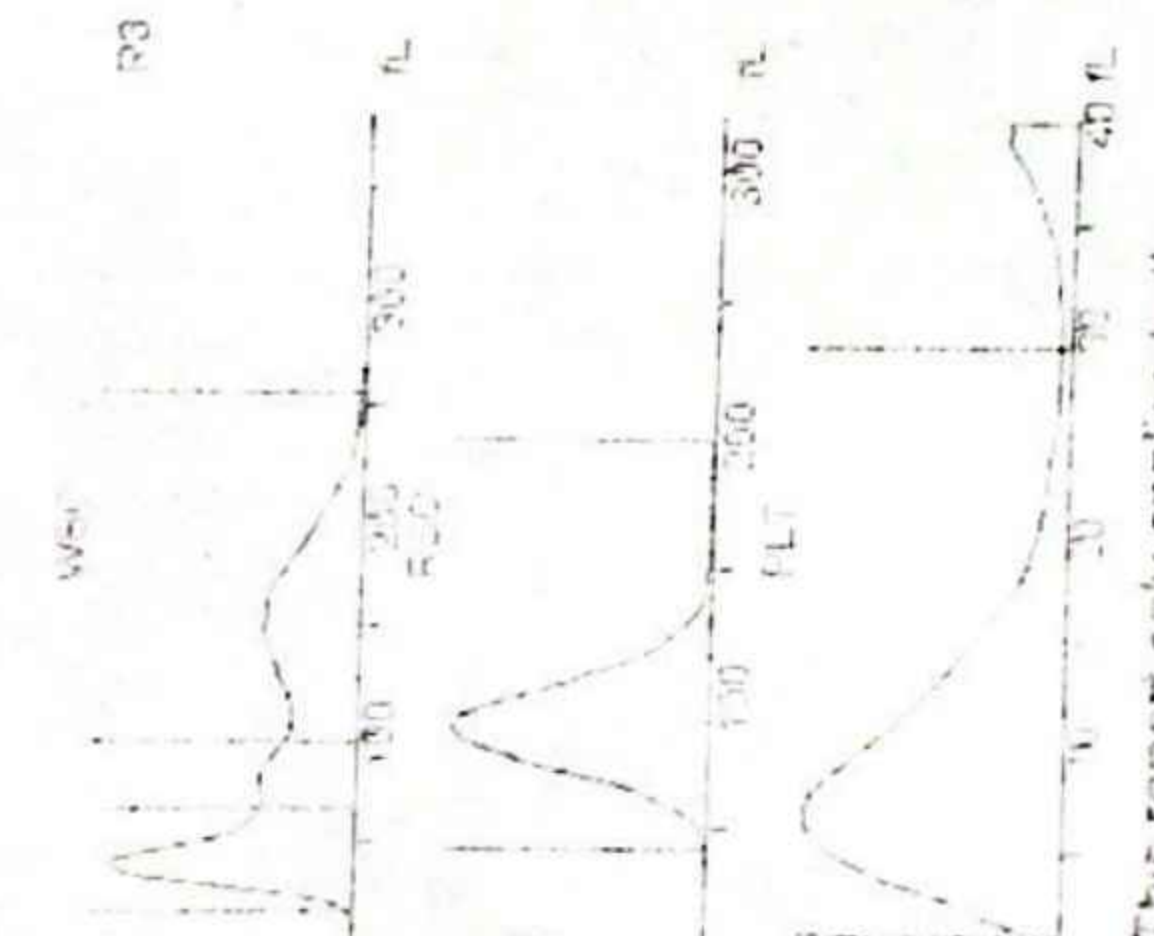


[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 14:41

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

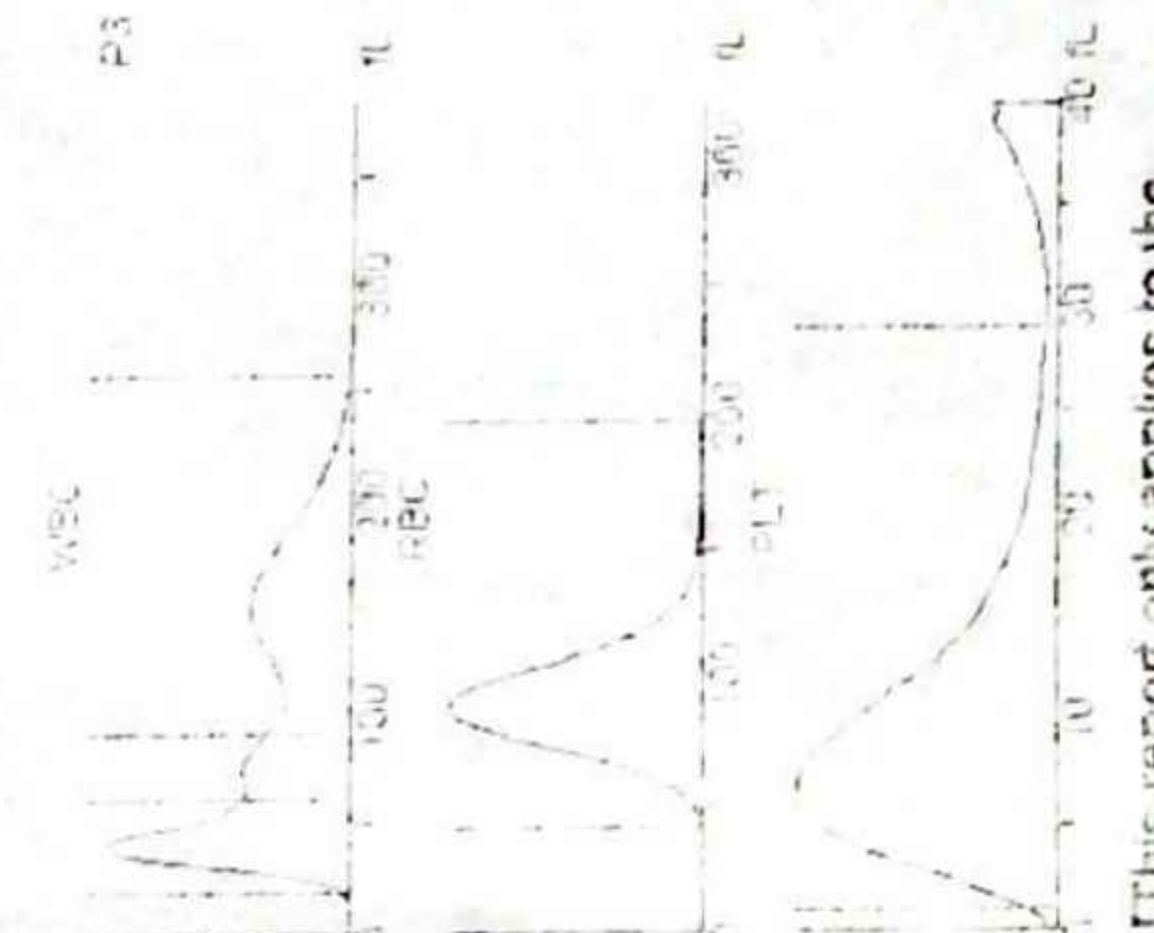


[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 14:43

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

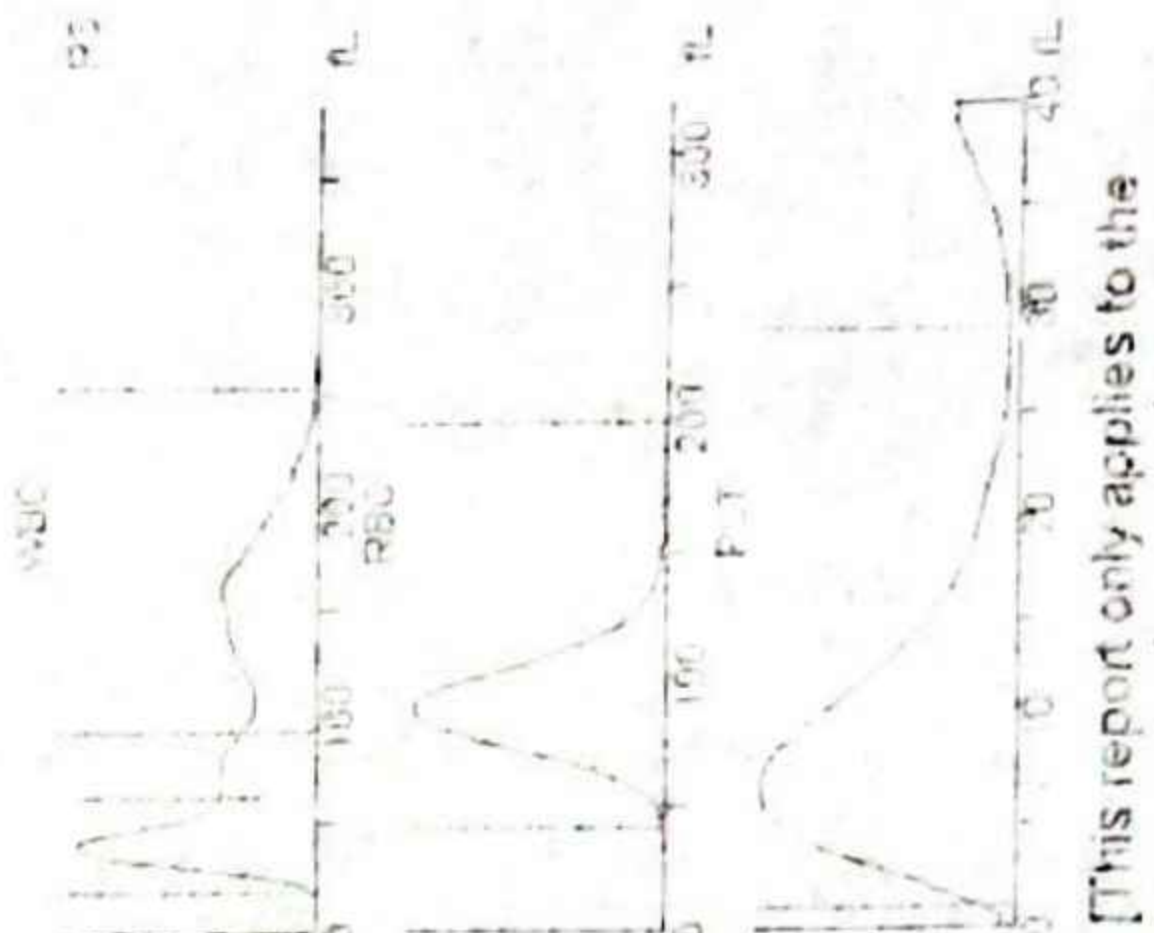


[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 14:44

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

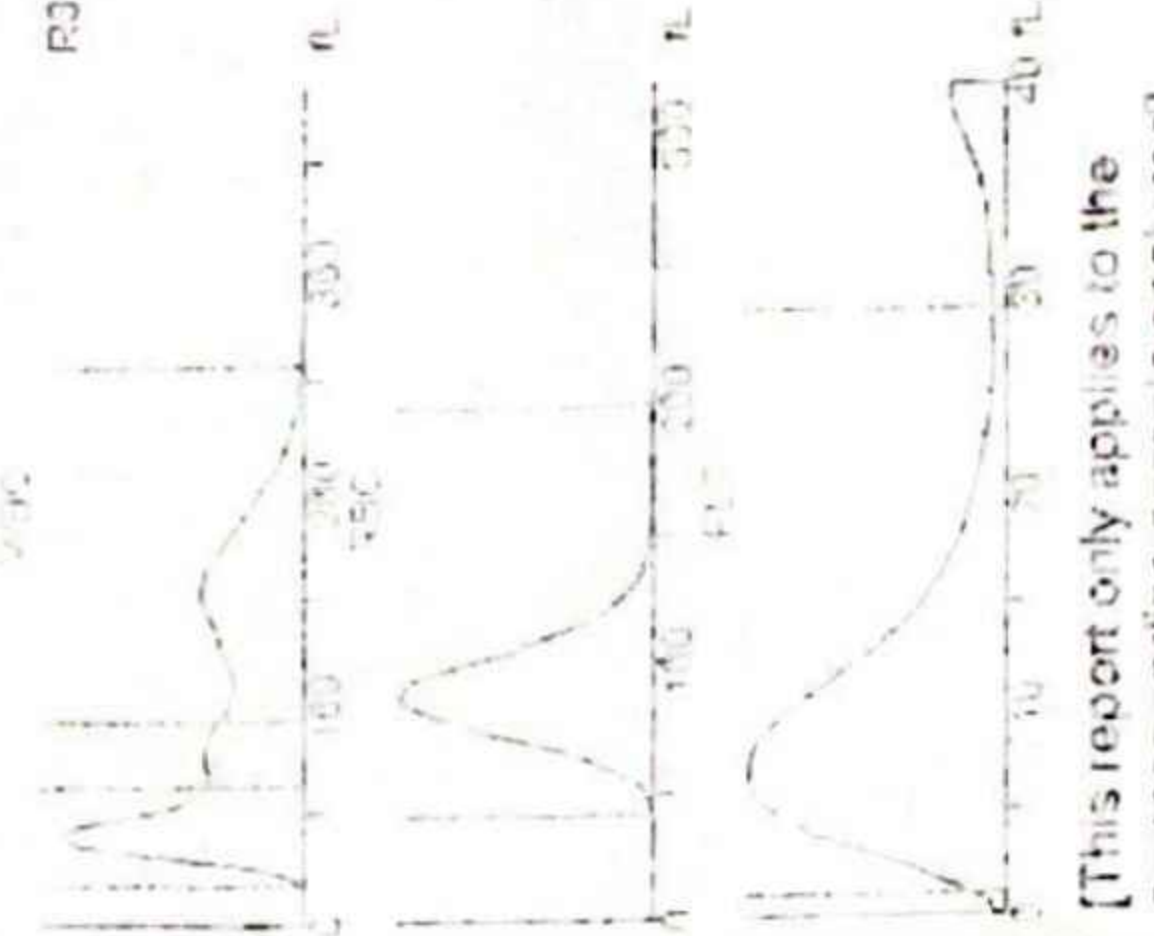


[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 14:46

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

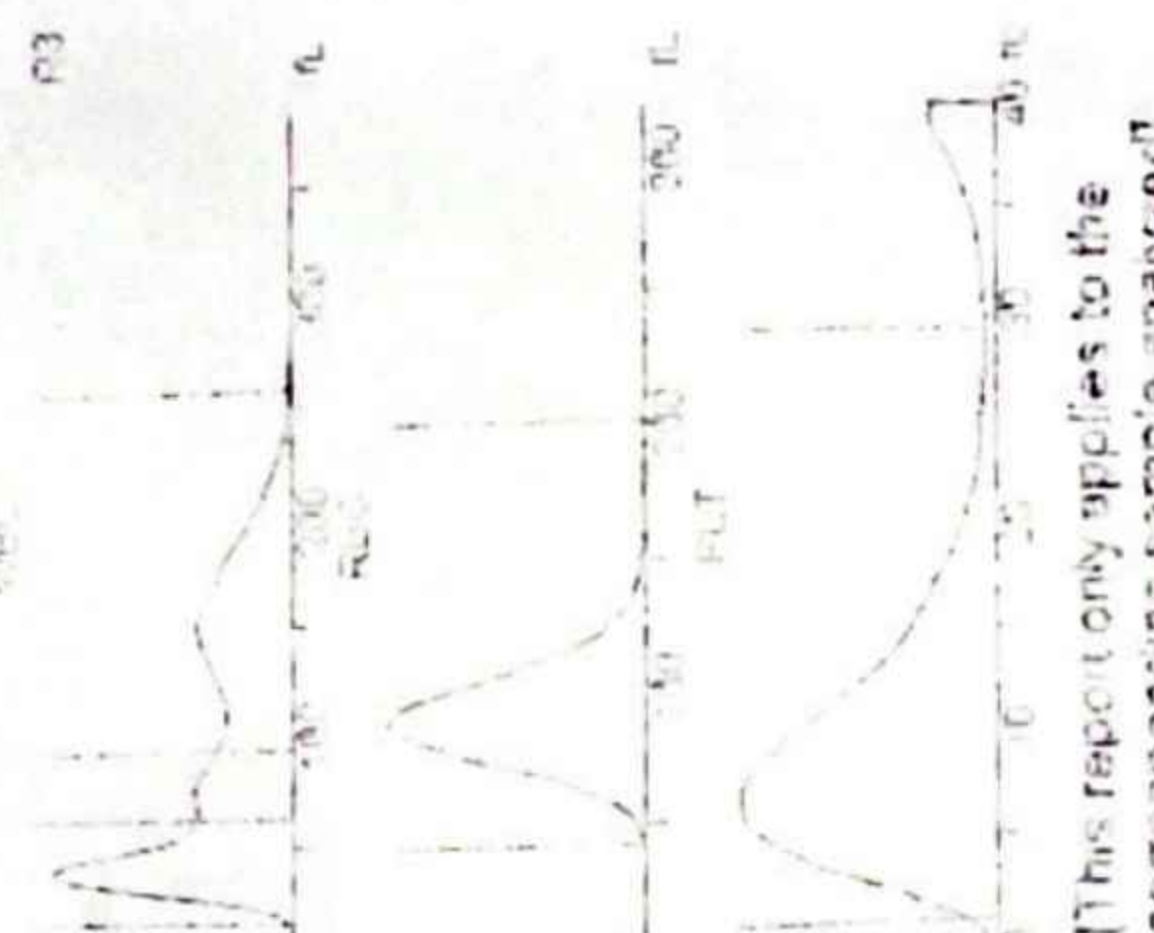


[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 14:47

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

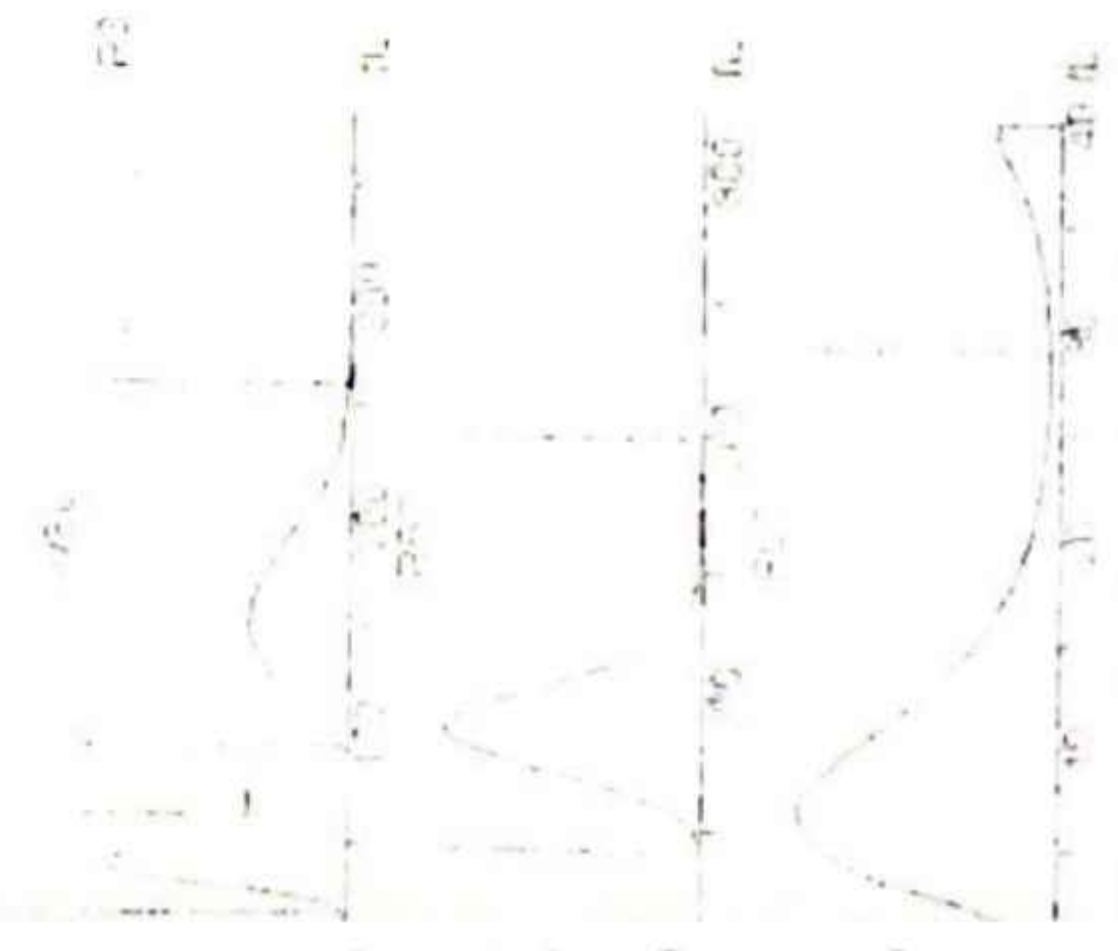


[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: RS12 Mode: WB Time of Analysis: 18/12/2023 14:49

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

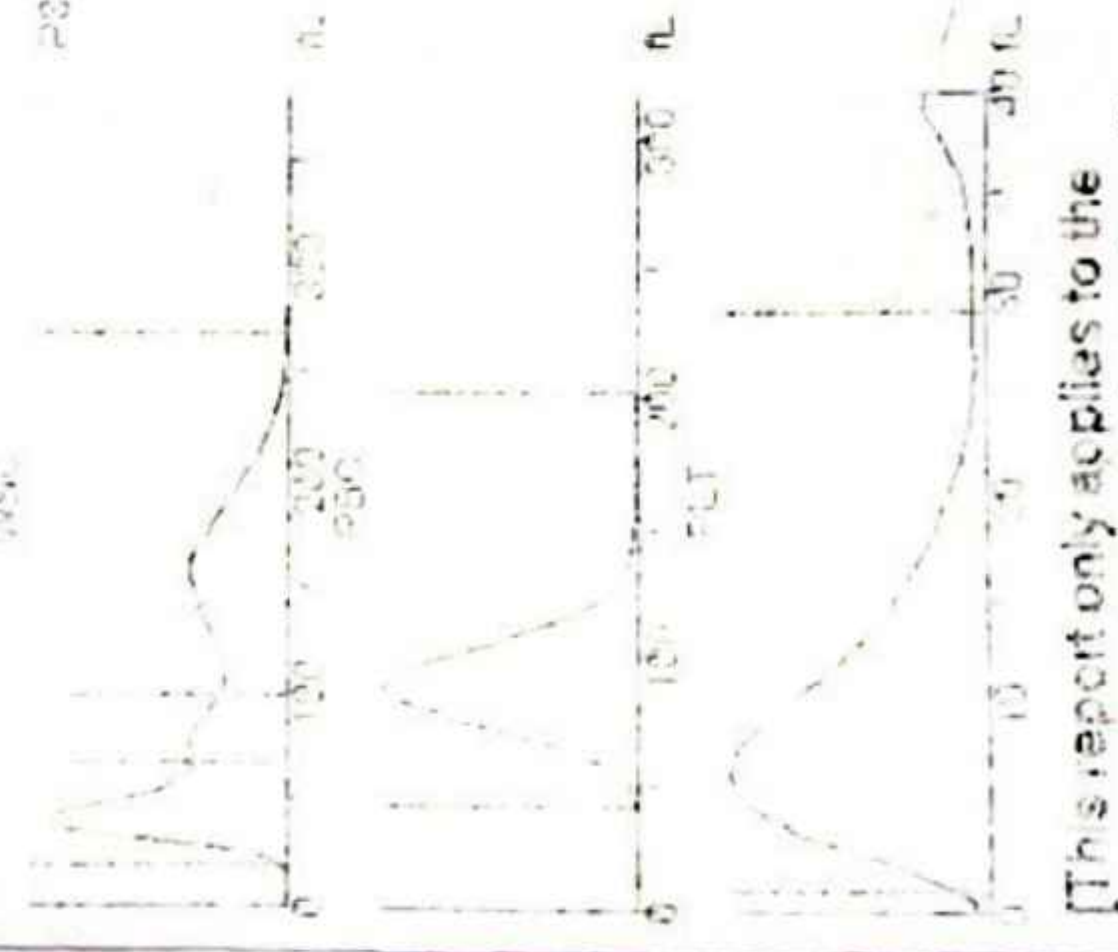


This report only applies to the corresponding sample analyzed

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: RS14 Mode: WB Time of Analysis: 18/12/2023 14:50

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

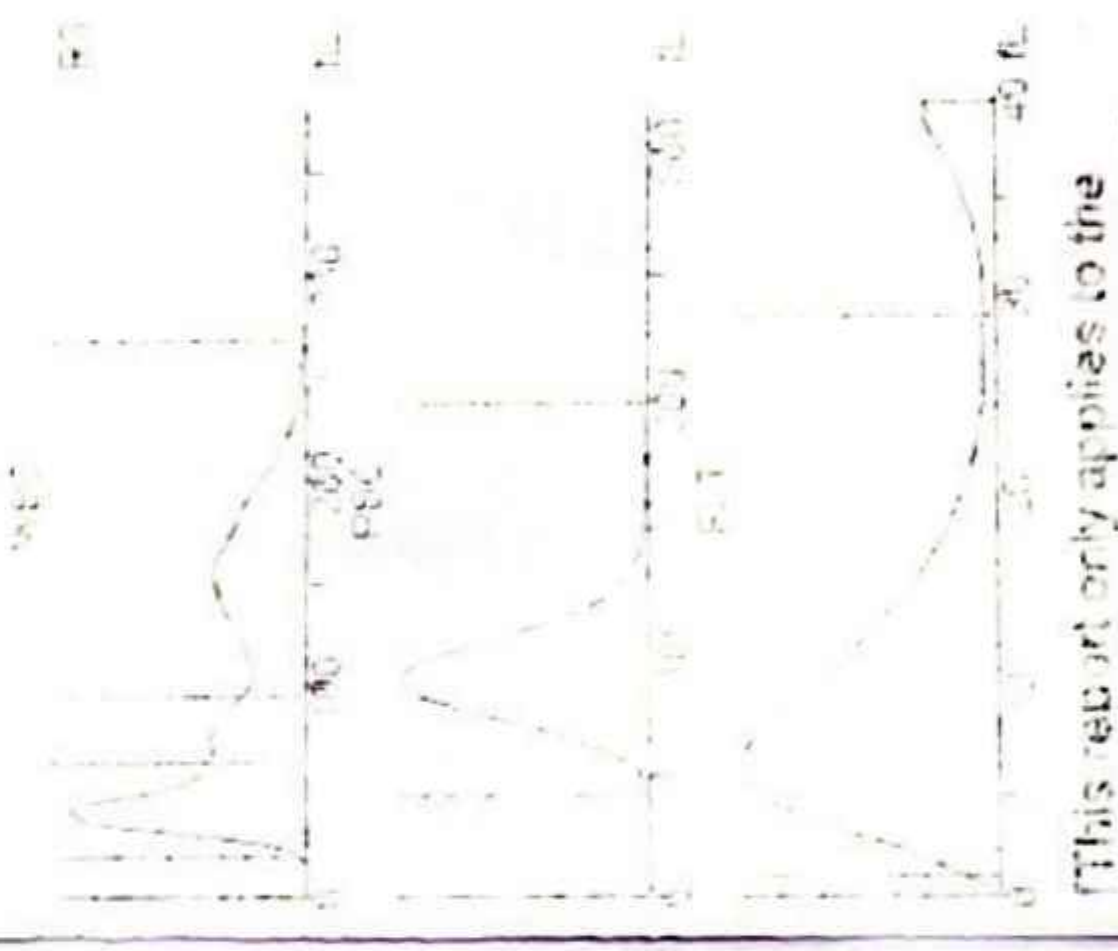


This report only applies to the corresponding sample analyzed

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: RS15 Mode: WB Time of Analysis: 18/12/2023 14:51

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

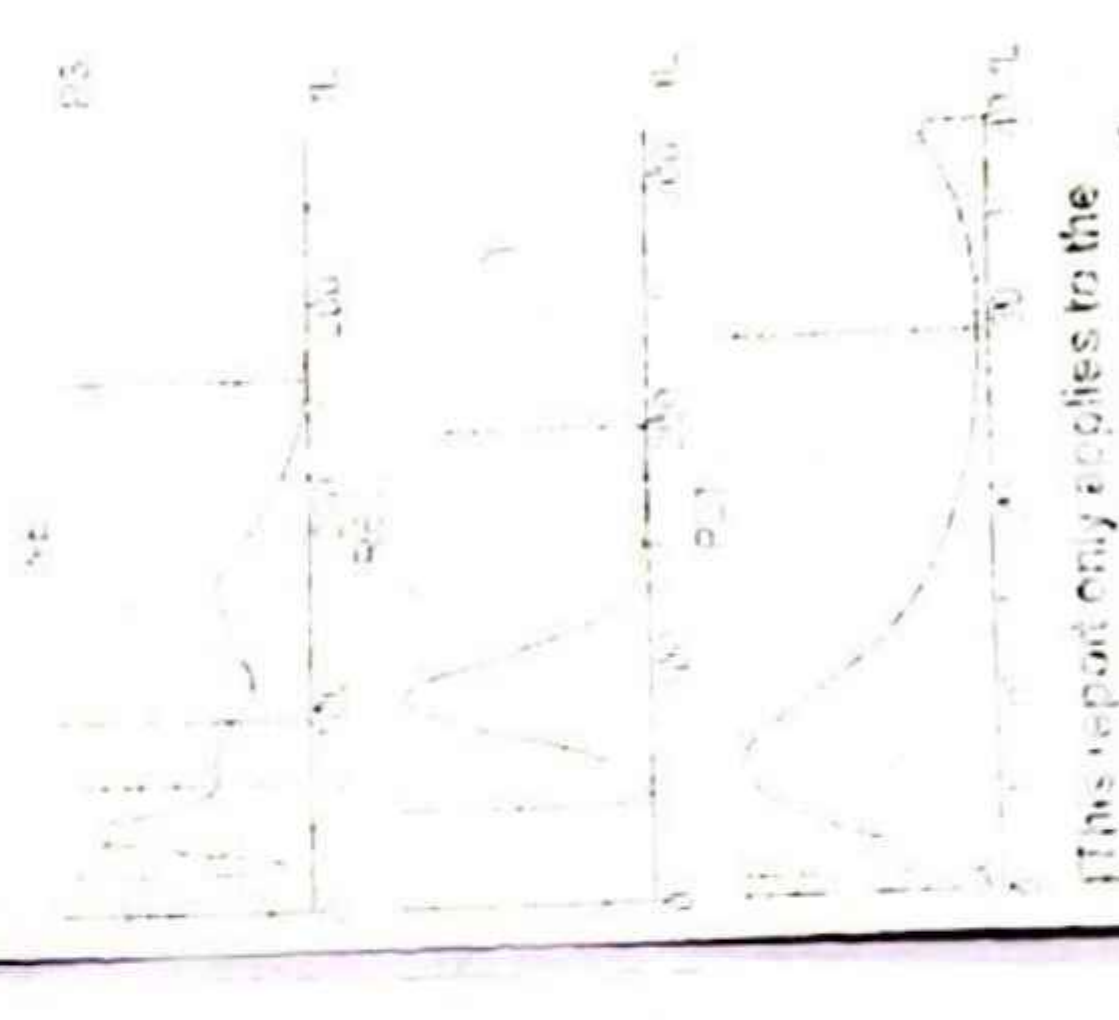


This report only applies to the corresponding sample analyzed

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: RS16 Mode: WB Time of Analysis: 18/12/2023 14:53

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

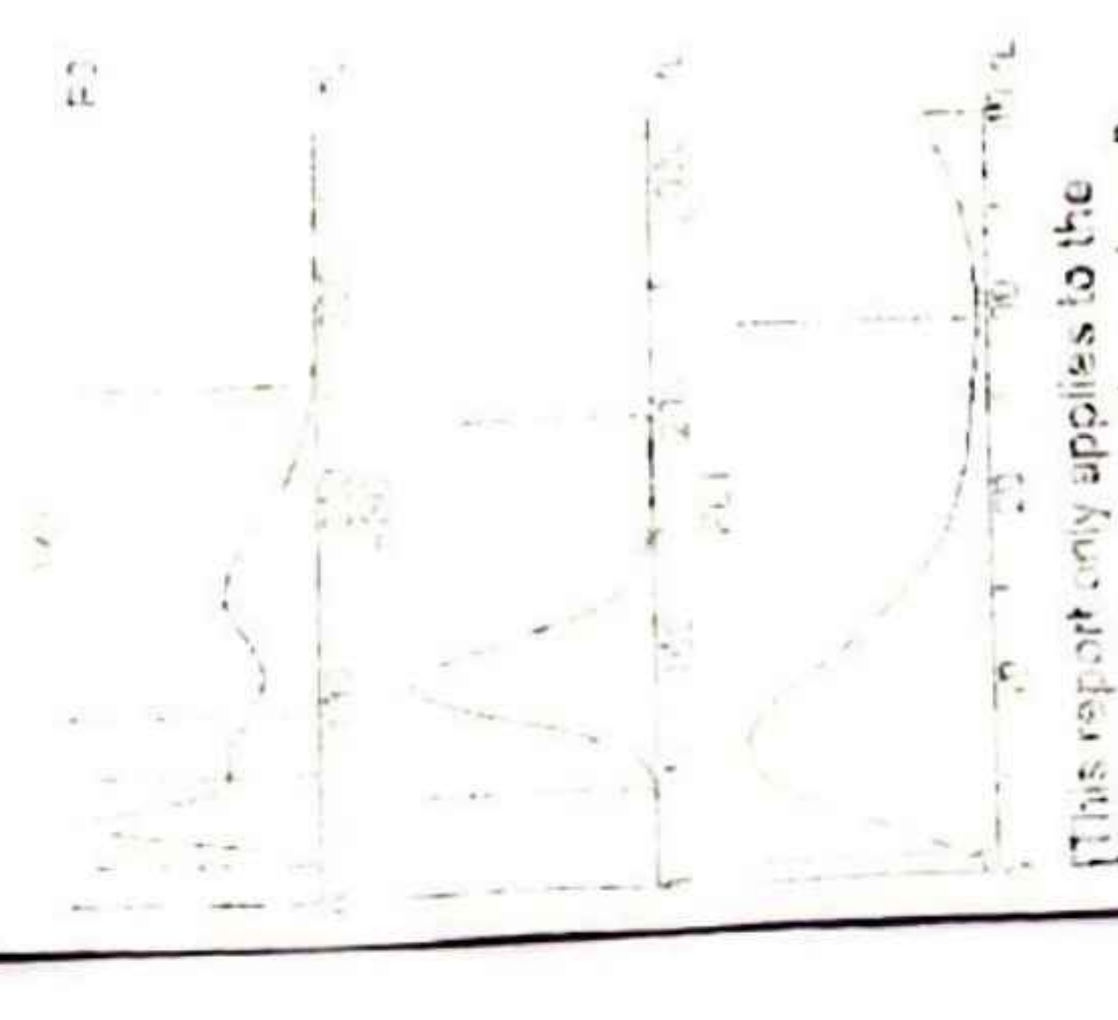


This report only applies to the corresponding sample analyzed

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: RS17 Mode: WB Time of Analysis: 18/12/2023 14:54

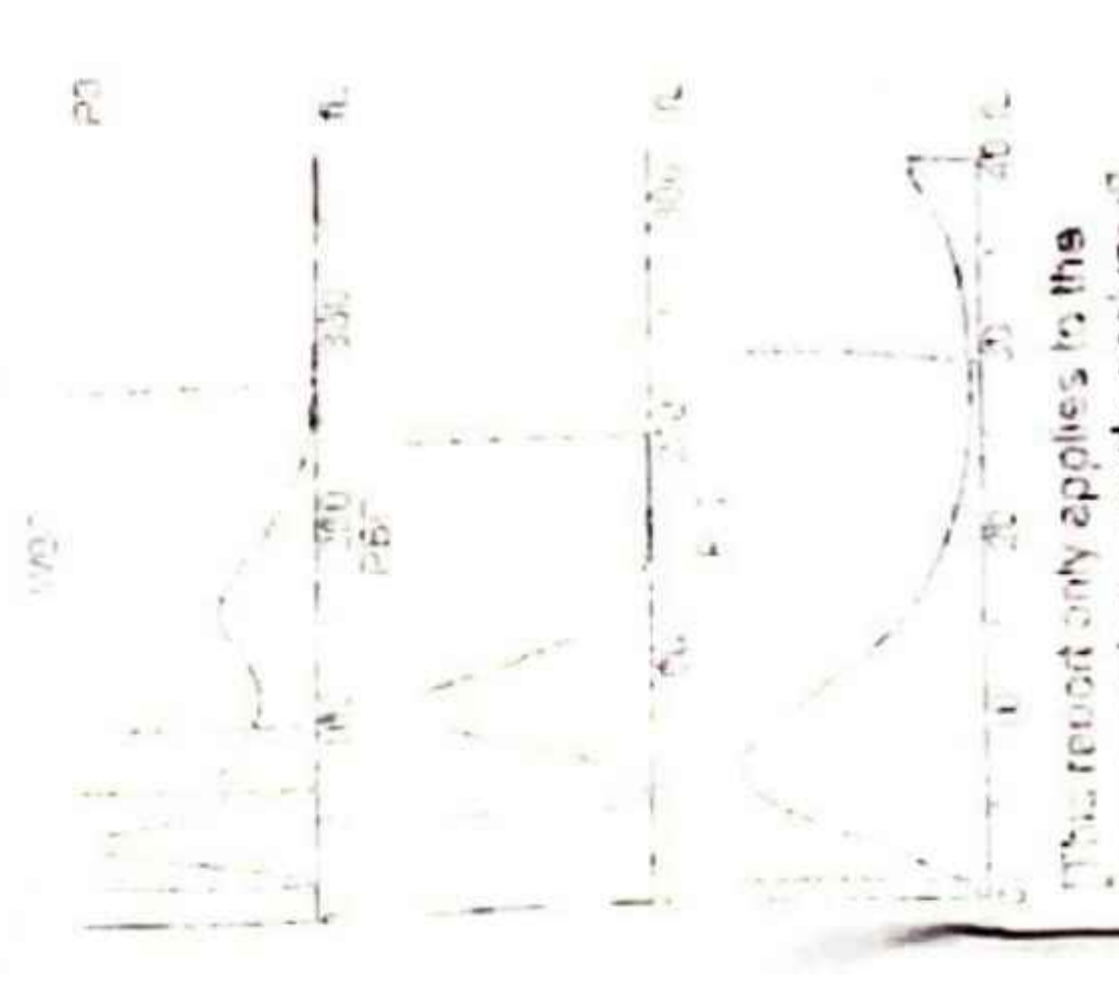
Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.



This report only applies to the corresponding sample analyzed

First Name: Last Name: Patient ID: Sample ID: RS18 Mode: WB Time of Analysis: 18/12/2023 14:56

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.



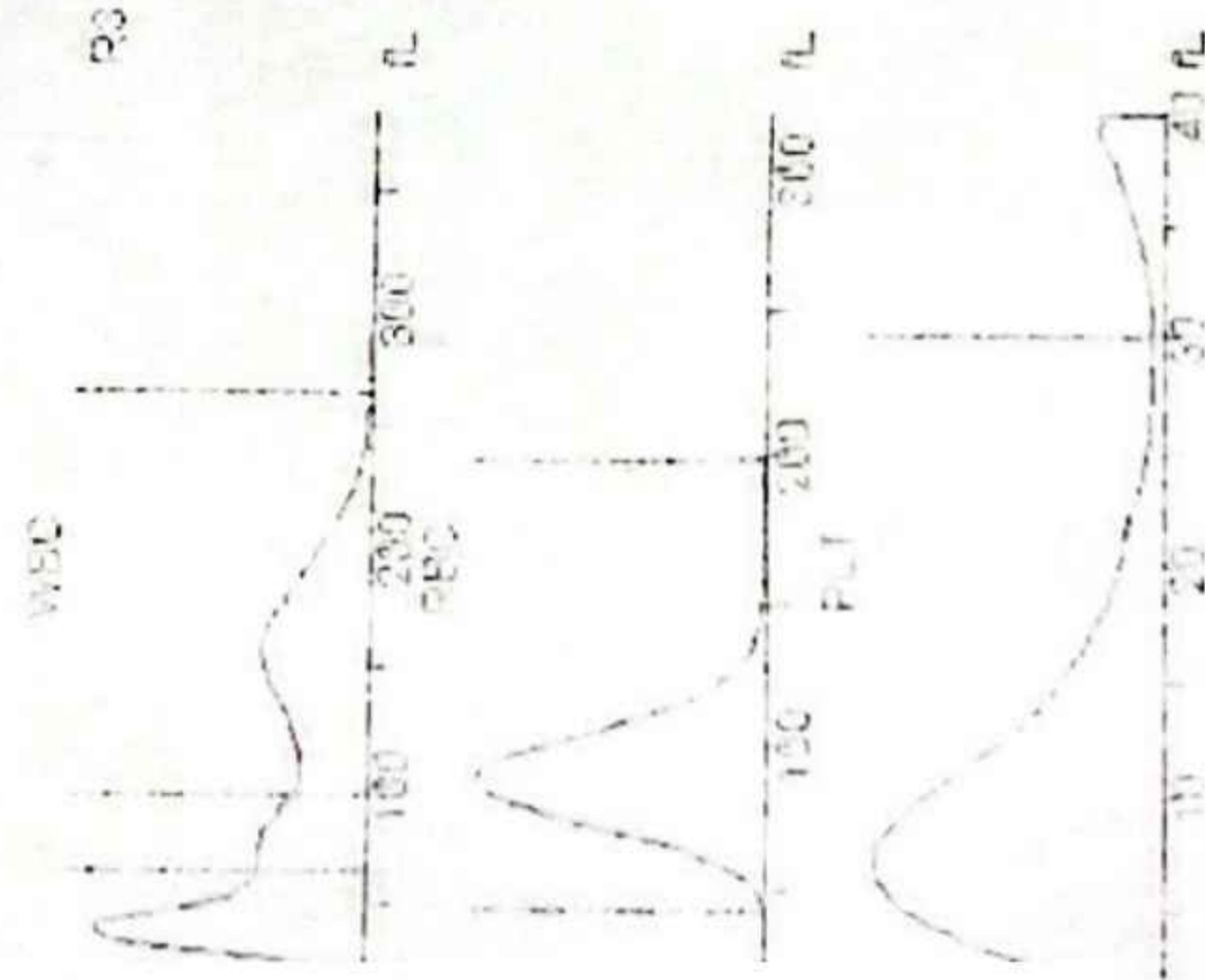
This report only applies to the corresponding sample analyzed

Sample Report 19 to

Hematology Analysis Report

First Name:
Last Name:
Patient ID:
Sample ID: RS19
Mode: WB
Time of Analysis: 18/12/2023 14:57

Modules	Result	Unit
WBC	11.3	10 ⁹ /L
Lymph#	3.9	10 ⁹ /L
Mid#	1.8	10 ⁹ /L
Gran#	5.6	10 ⁹ /L
Lymph%	34.2	%
Mid%	15.7	%
Gran%	50.1	%
RBC	5.61	10 ¹² /L
HGB	14.4	g/dL
HCT	49.8	%
MCV	88.8	fL
MCH	25.7	pg
MCHC	28.9	g/dL
RDW-CV	15.9	%
RDW-SD	50.3	fL
PLT	391	10 ⁹ /L
MPV	10.7	fL
PDW	16.3	%
PCT	0.417	%
-LCC	125	10 ⁹ /L
-LCR	31.9	%

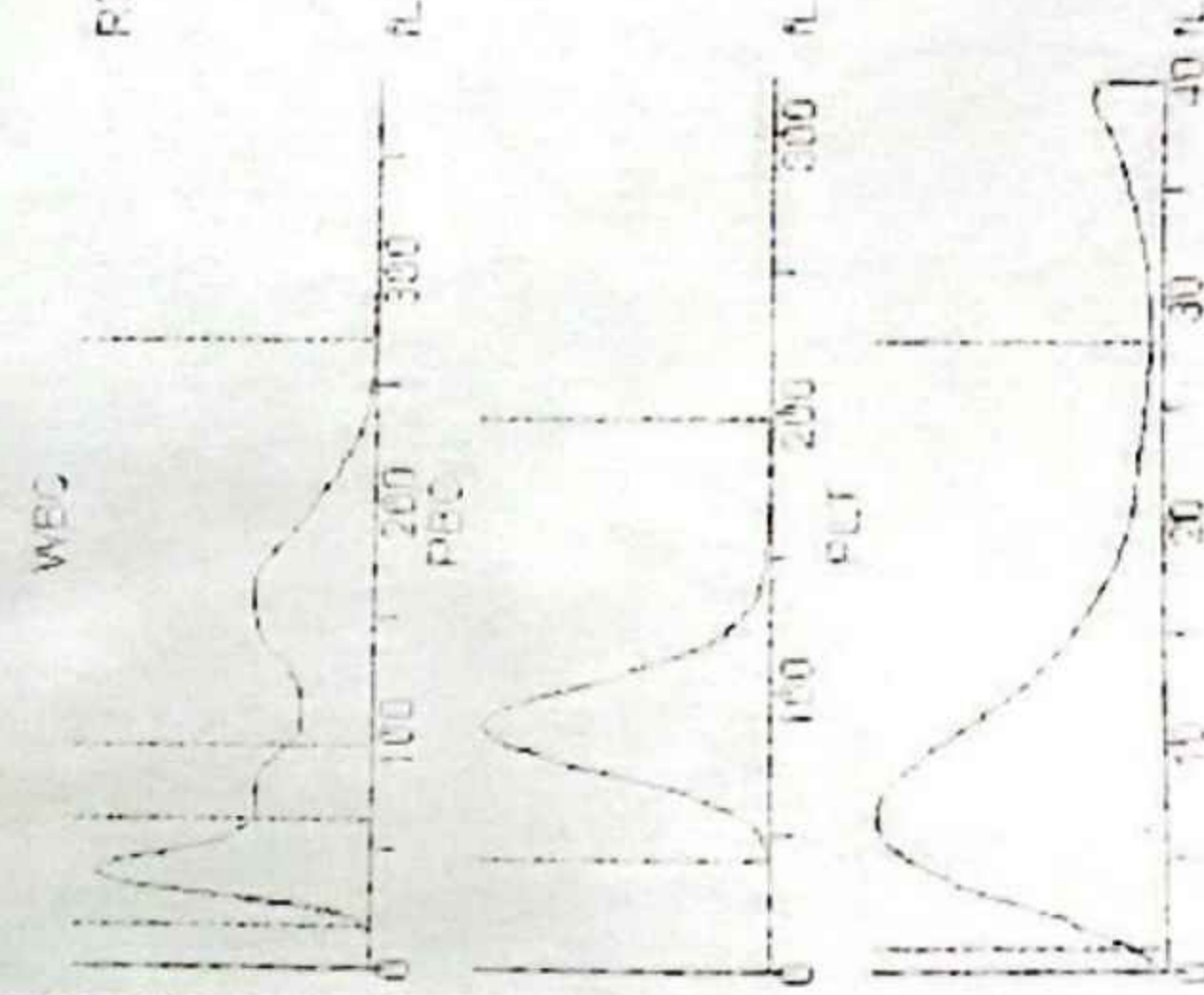


[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name:
Last Name:
Patient ID:
Sample ID: RS20
Mode: WB
Time of Analysis: 18/12/2023 14:59

Modules	Result	Unit
WBC	11.7	10 ⁹ /L
Lymph#	3.7	10 ⁹ /L
Mid#	1.9	10 ⁹ /L
Gran#	6.1	10 ⁹ /L
Lymph%	32.0	%
Mid%	16.1	%
Gran%	51.9	%
RBC	5.57	10 ¹² /L
HGB	14.3	g/dL
HCT	49.4	%
MCV	88.6	fL
MCH	25.7	pg
MCHC	29.0	g/dL
RDW-CV	15.7	%
RDW-SD	49.5	fL
PLT	357	10 ⁹ /L
MPV	10.2	fL
PDW	16.0	%
PCT	0.373	%
P-LCC	105	10 ⁹ /L
P-LCR	28.5	%



[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 13:39

LOW Sample

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.



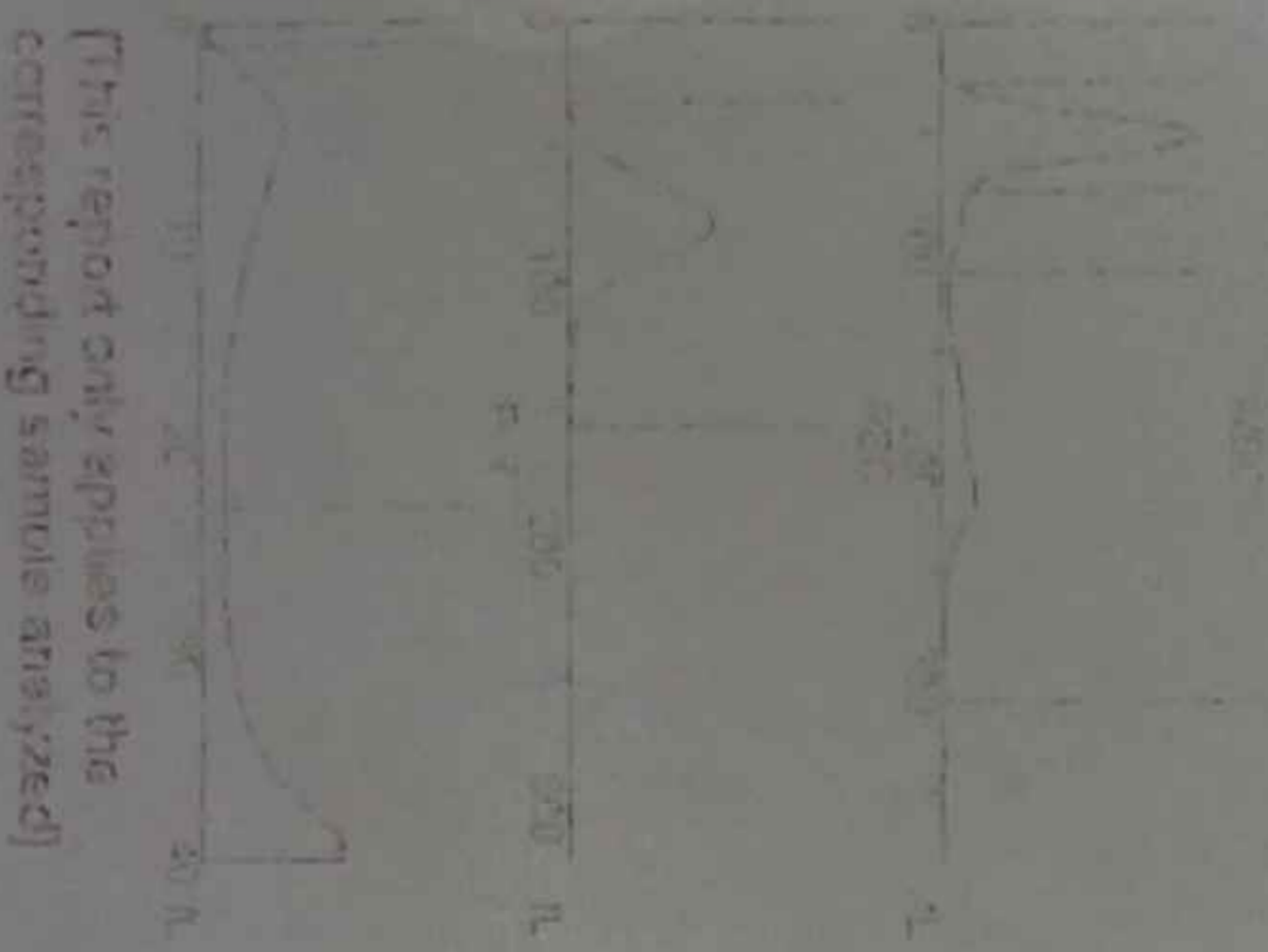
[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 13:41

LOW Sample

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.



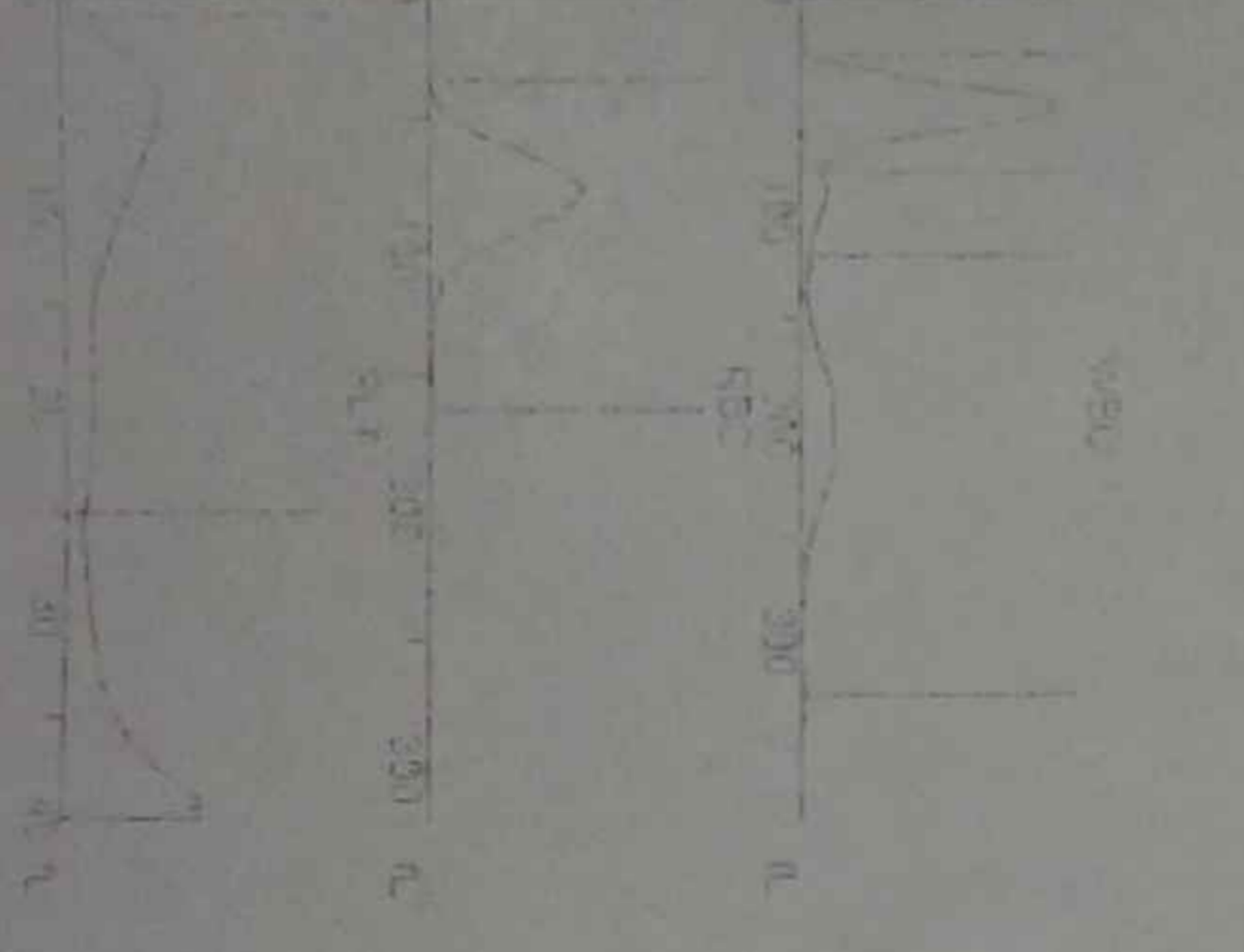
[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 13:37

LOW Sample

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.



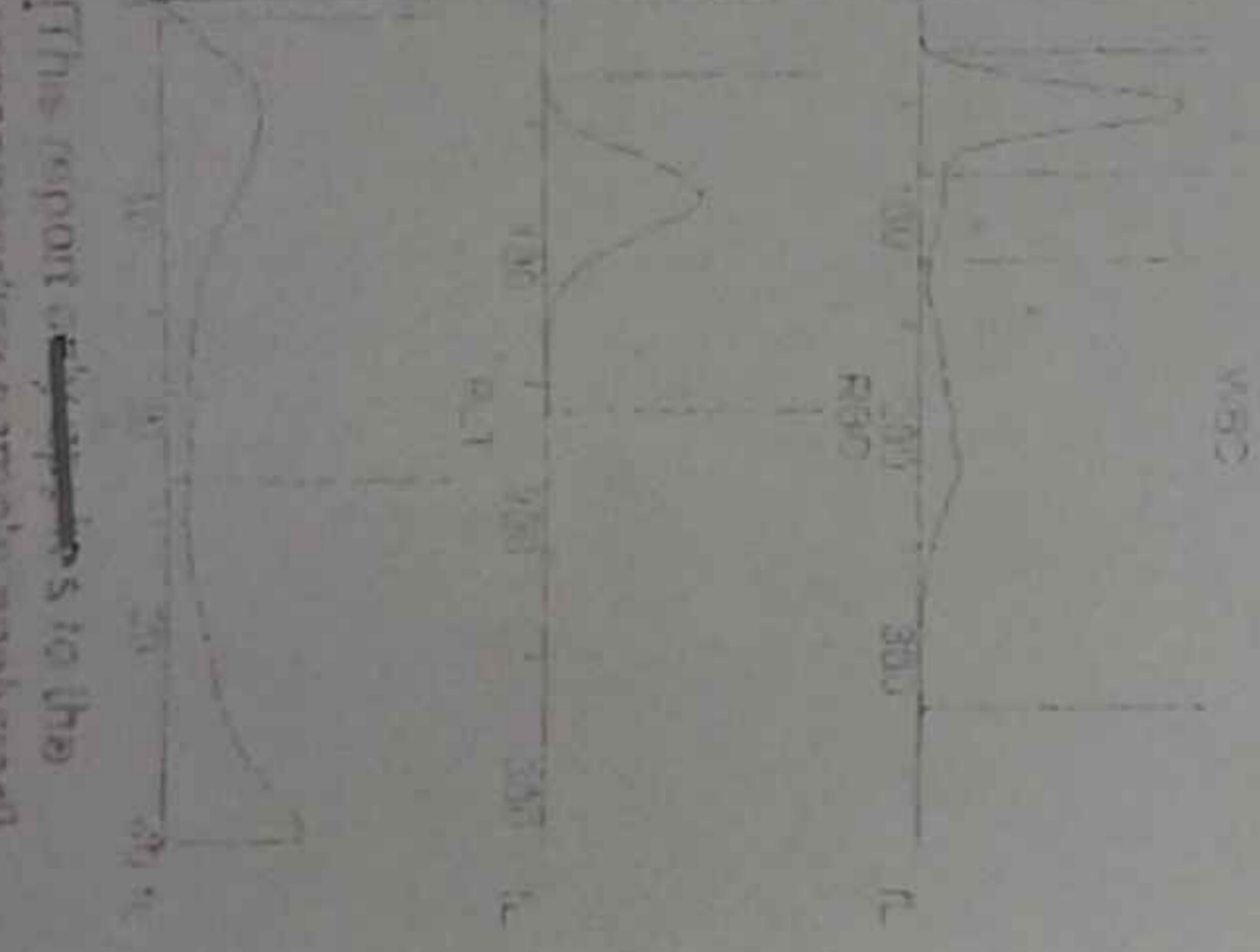
[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 13:34

LOW Sample

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.



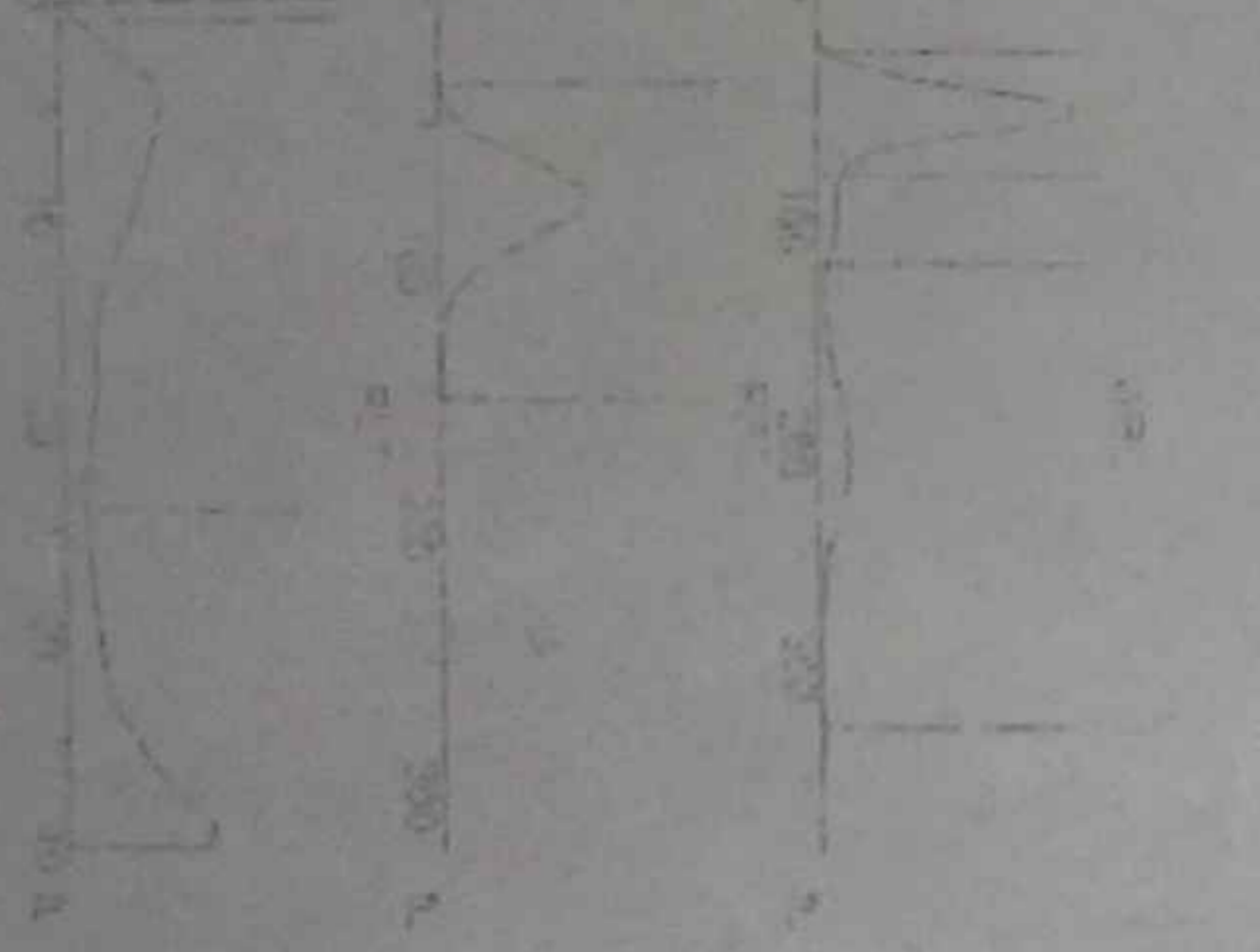
[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 13:32

LOW Sample

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

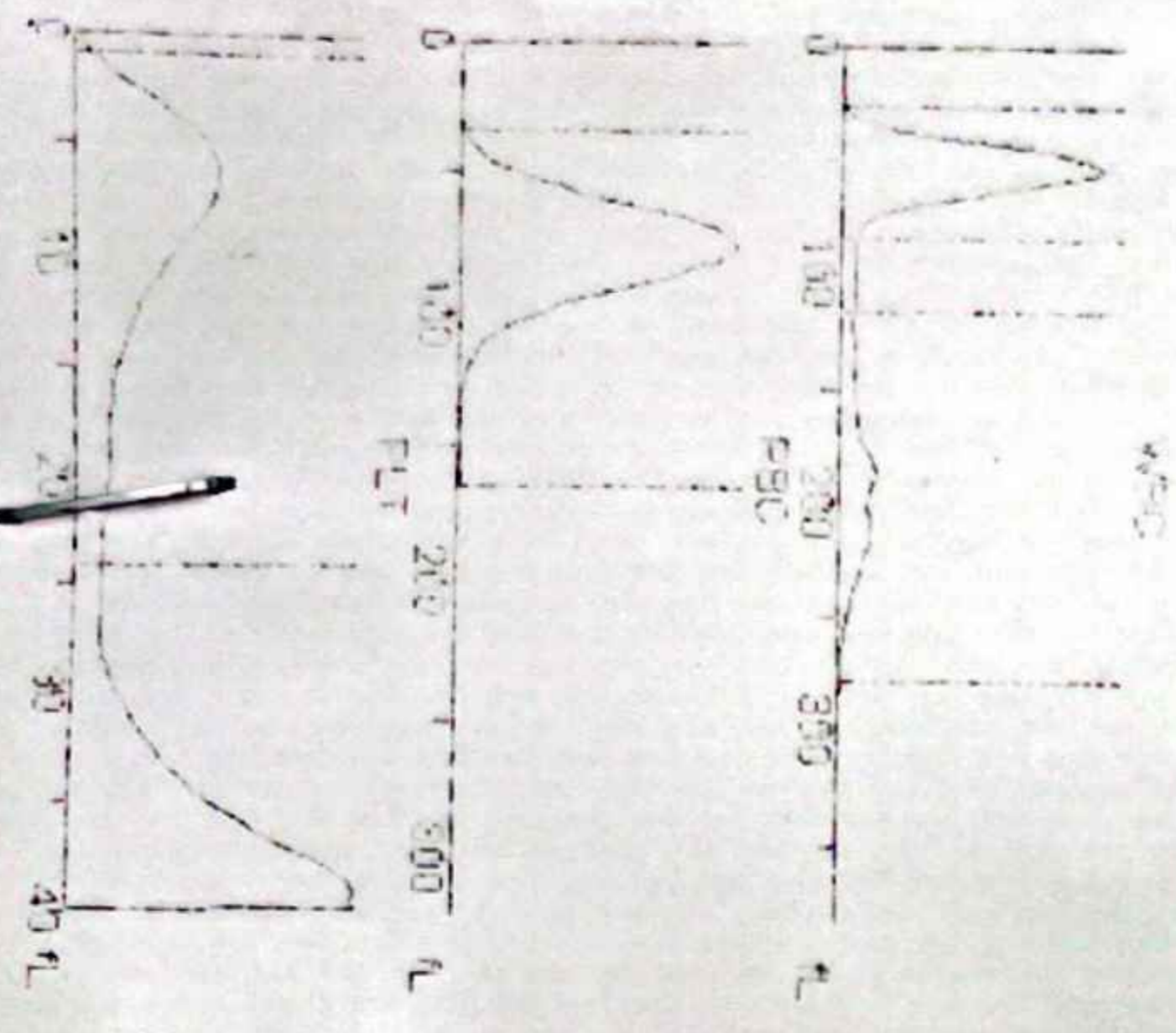


[This report only applies to the corresponding sample analyzed]

QC L-J QC

File No.: 1
Lot No.: B1123L
Level: Low
Time of Analysis: 18/12/2023 12:31

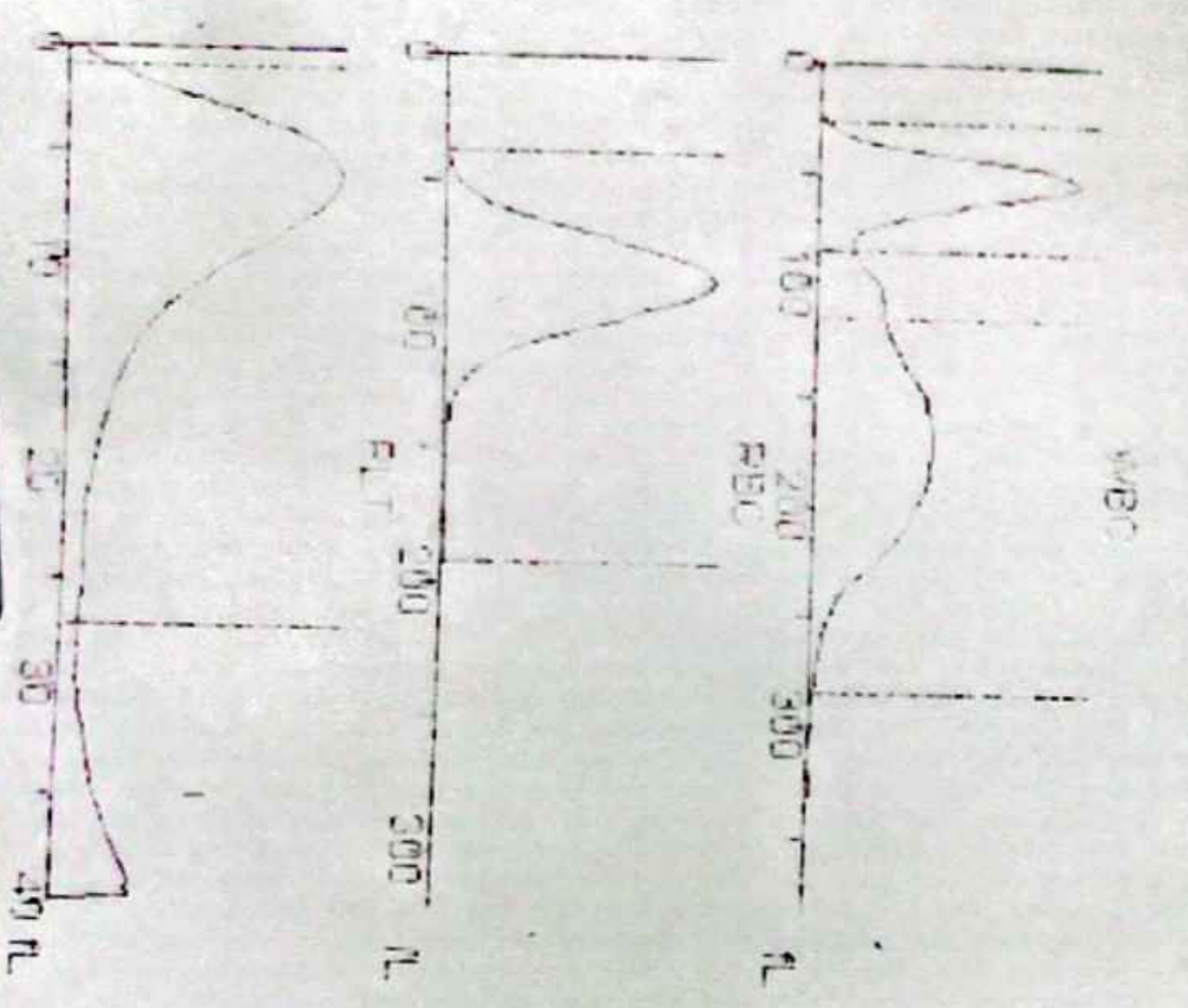
WBC	2.0	1.5 - 2.5
Lymph#	1.3	1.0 - 1.6
Mid#	0.1	0.0 - 0.2
Gran#	0.6	0.4 - 0.8
Lymph%	64.7	52.9 - 76.9
Mid%	4.9	0.2 - 10.2
Gran%	30.4	19.9 - 39.9
RBC	2.28	2.04 - 2.40
HGB	6.3	5.5 - 6.3
HCT	17.4	15.7 - 18.7
MCV	76.3	72.5 - 82.5
MCH	27.5	23.6 - 29.6
MCHC	36.0	31.3 - 37.3
RDW-CV	17.0	14.6 - 20.6
RDW-SD	46.0	41.2 - 53.2
PLT	66	40 - 80
MPV	10.1	6.4 - 12.4
PDW	16.3	12.9 - 18.9
PCT	0.066	0.005 - 0.105
P-LCC	20	5 - 25
P-LCR	30.4	15.5 - 33.5



QC N

File No.: 2
Lot No.: B1123N
Level: Normal
Time of Analysis: 18/12/2023 12:23

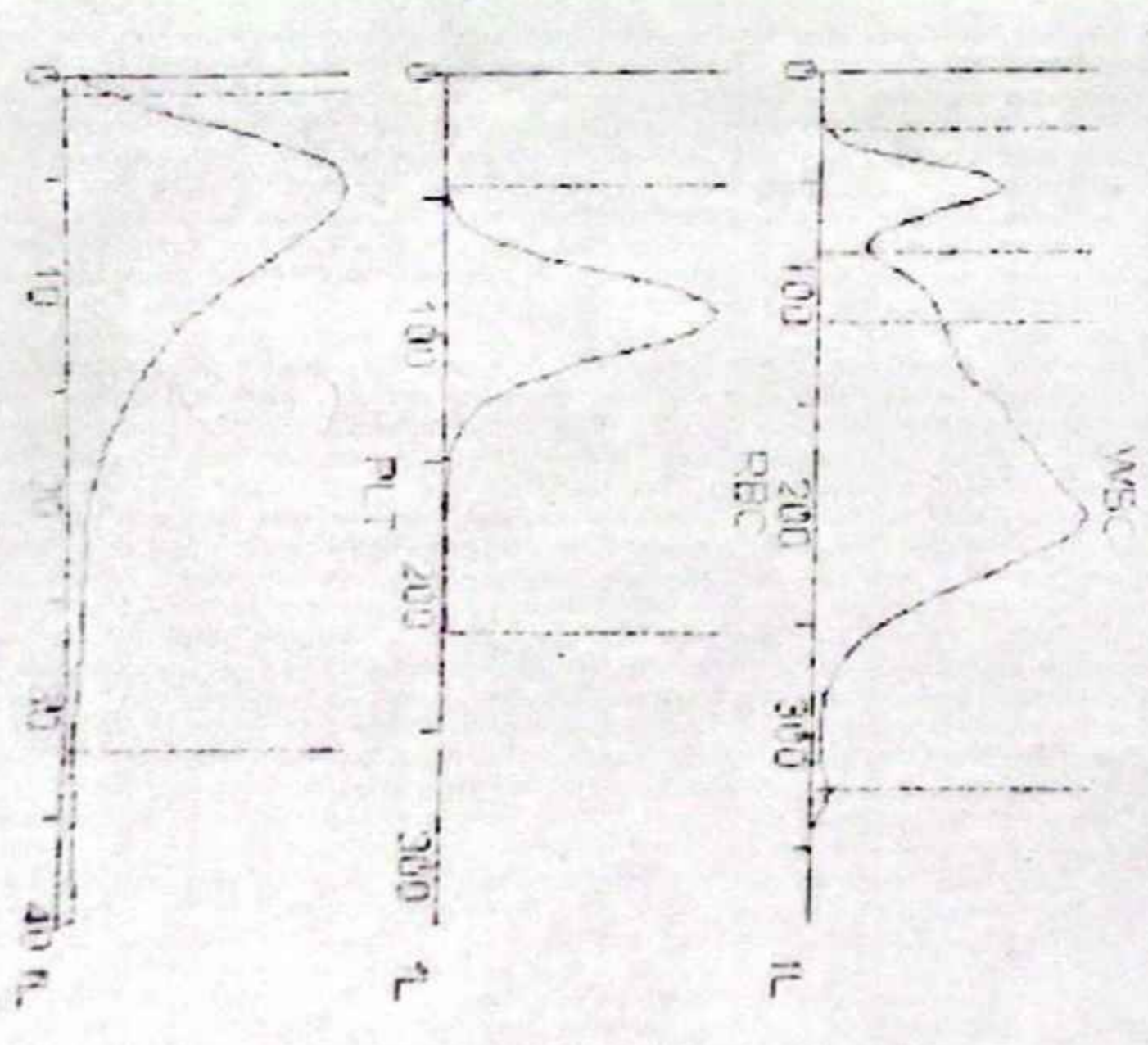
WBC	8.1	6.8 - 8.8
Lymph#	2.7	1.9 - 3.3
Mid#	0.7	0.0 - 1.0
Gran#	4.7	4.0 - 5.4
Lymph%	32.8	25.3 - 41.3
Mid%	8.4	0.4 - 11.4
Gran%	58.8	52.8 - 68.8
RBC	4.62	4.25 - 4.73
HGB	13.8	13.1 - 14.3
HCT	39.6	38.4 - 42.4
MCV	85.7	82.0 - 92.0
MCH	30.0	28.0 - 33.0
MCHC	35.0	32.1 - 38.1
RDW-CV	15.5	13.2 - 19.2
RDW-SD	47.3	42.5 - 54.5
PLT	284	220 - 300
MPV	9.3	5.9 - 11.9
PDW	16.5	13.2 - 19.2
PCT	0.263	0.131 - 0.331
P-LCC	67	34 - 78
P-LCR	23.5	12.6 - 30.6



QC H

File No.: 3
Lot No.: B1123H
Level: High
Time of Analysis: 18/12/2023 12:22

WBC	21.3	18.7 - 23.7
Lymph#	3.2	1.3 - 4.7
Mid#	1.7	0.1 - 2.3
Gran#	16.4	15.0 - 19.0
Lymph%	14.8	6.3 - 22.3
Mid%	8.2	0.6 - 10.6
Gran%	77.0	71.1 - 89.1
RBC	5.97	5.20 - 5.94
HGB	18.7	17.9 - 19.5
HCT	53.3	49.4 - 54.2
MCV	94.0	86.0 - 100.0
MCH	33.0	31.1 - 36.1
MCHC	35.1	33.1 - 39.1
RDW-CV	14.6	12.6 - 18.6
RDW-SD	48.9	42.3 - 58.3
PLT	632	518 - 638
MPV	9.6	6.1 - 12.1
PDW	17.0	13.6 - 19.6
PCT	0.604	0.326 - 0.726
P-LCC	158	100 - 160
P-LCR	25.1	13.5 - 31.5

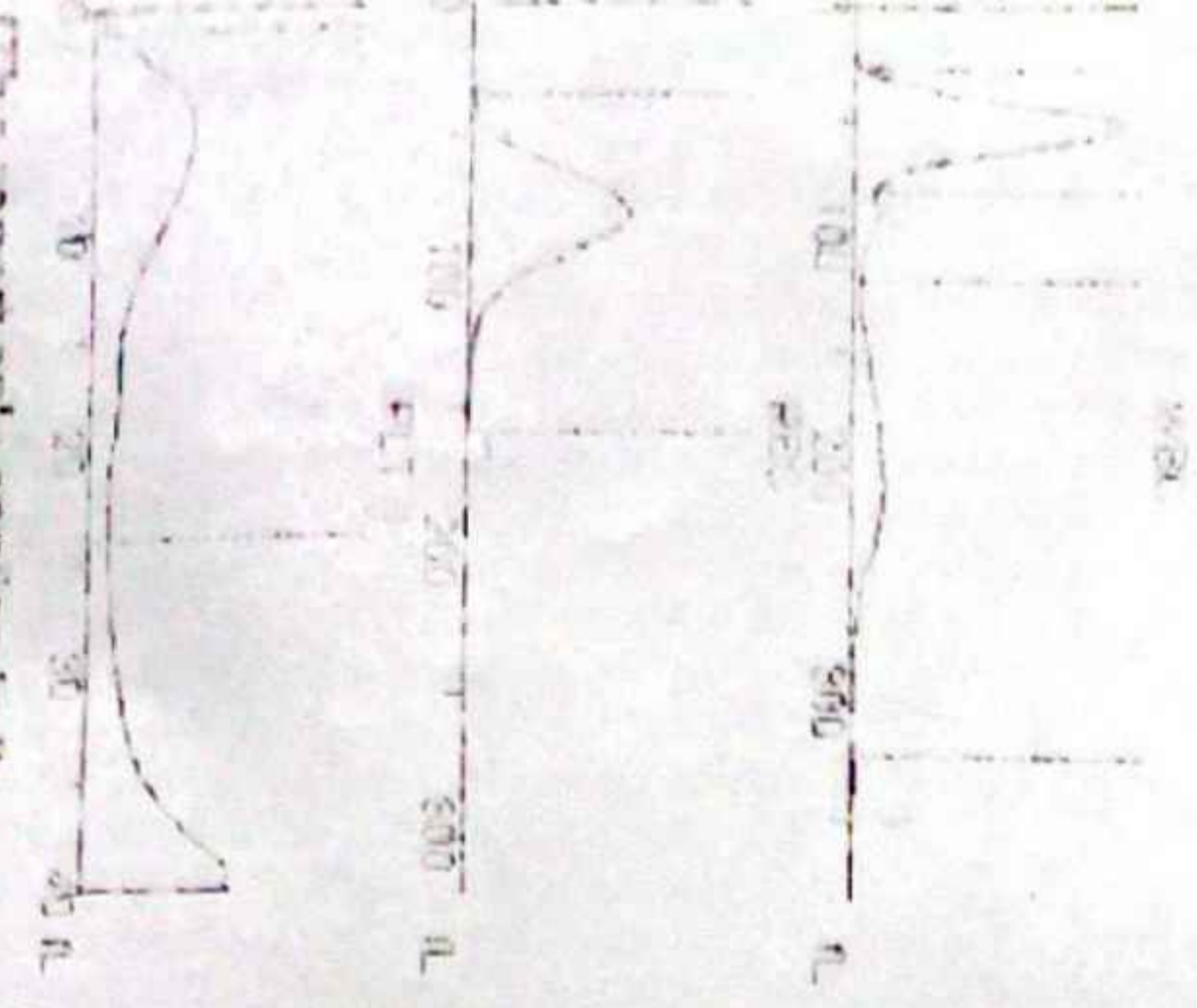


Hematology Analysis Report

LOW Sample

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 13:39

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.



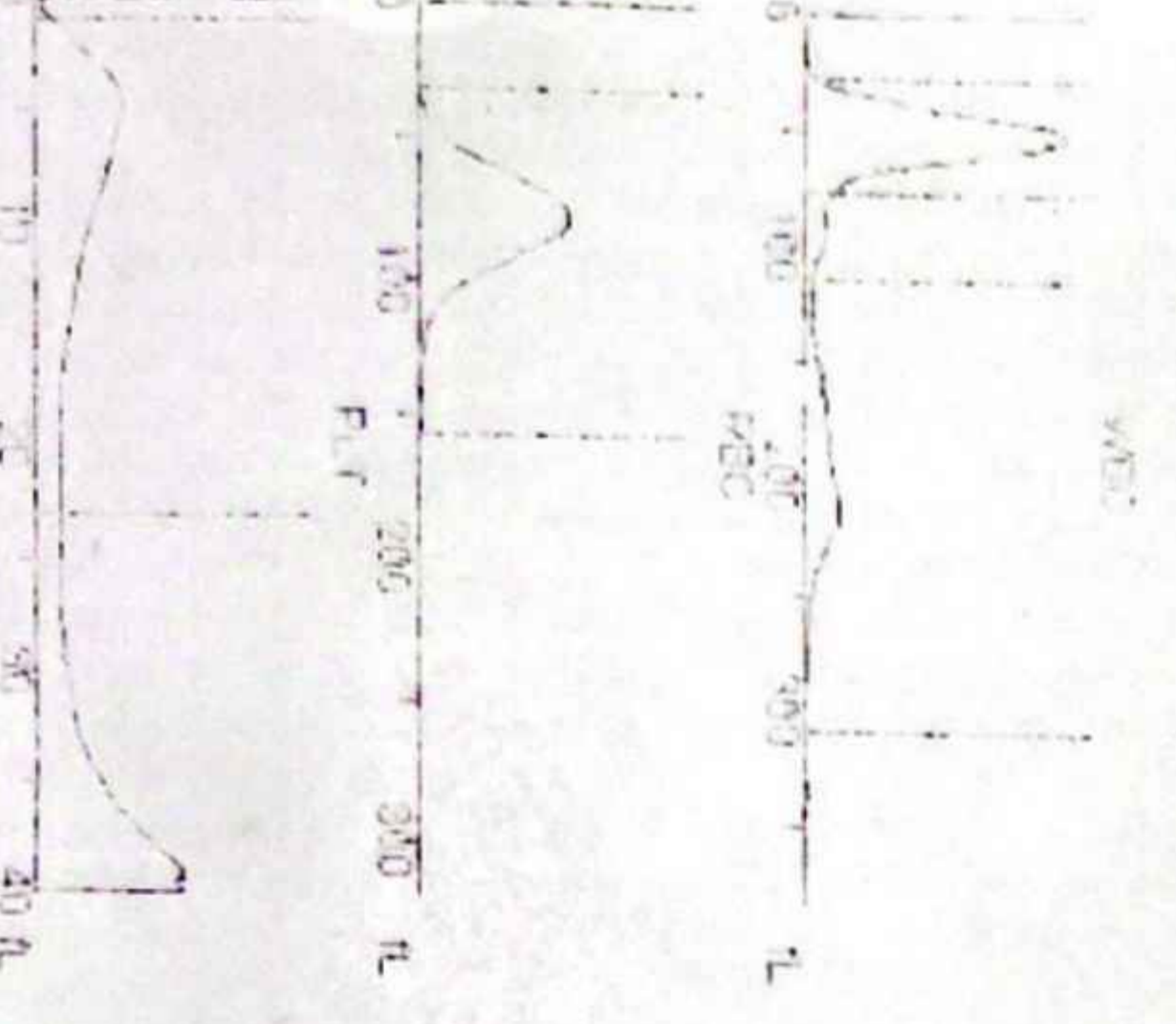
[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

LOW Sample

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 13:41

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.



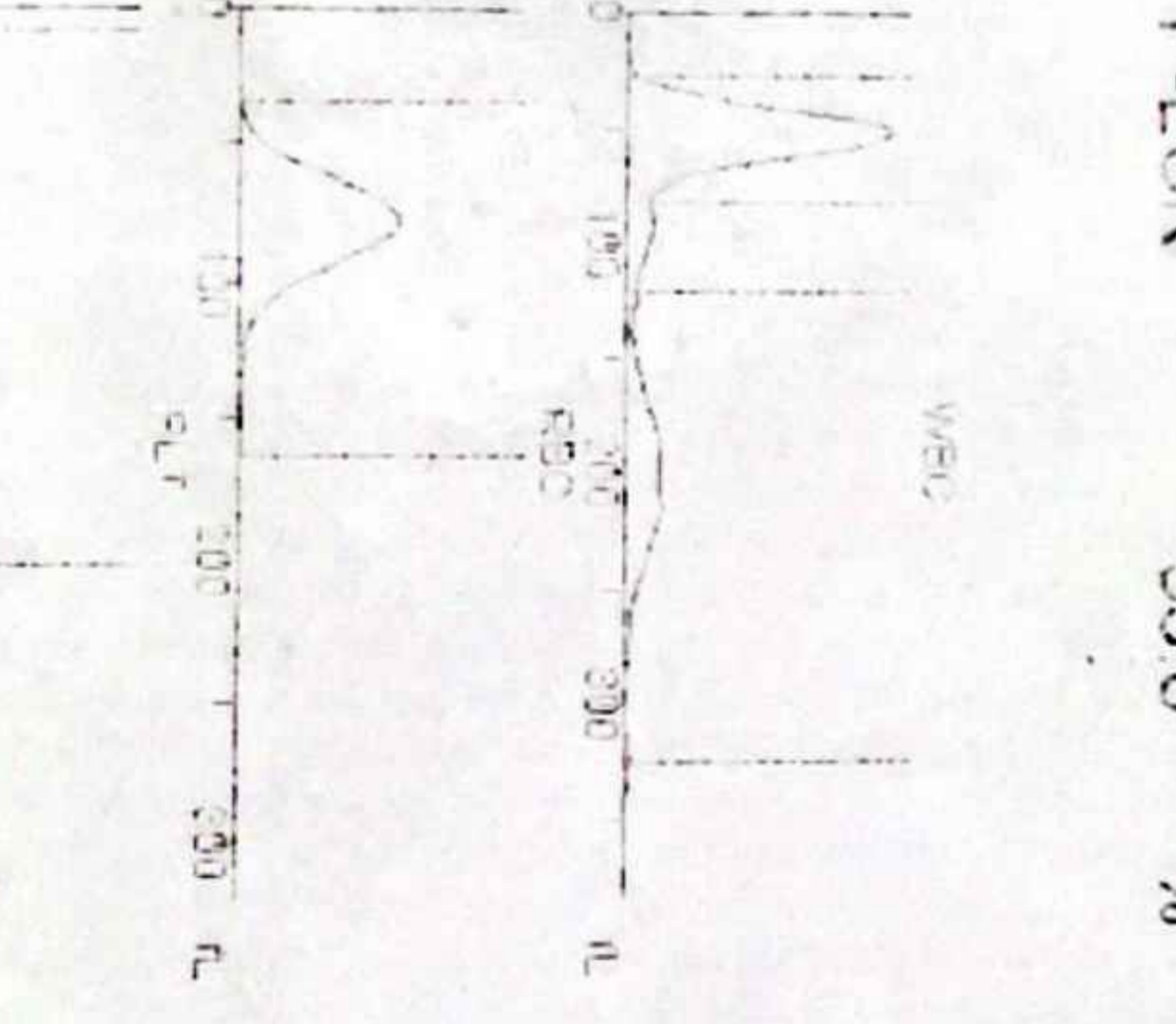
[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

LOW Sample

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 13:37

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.



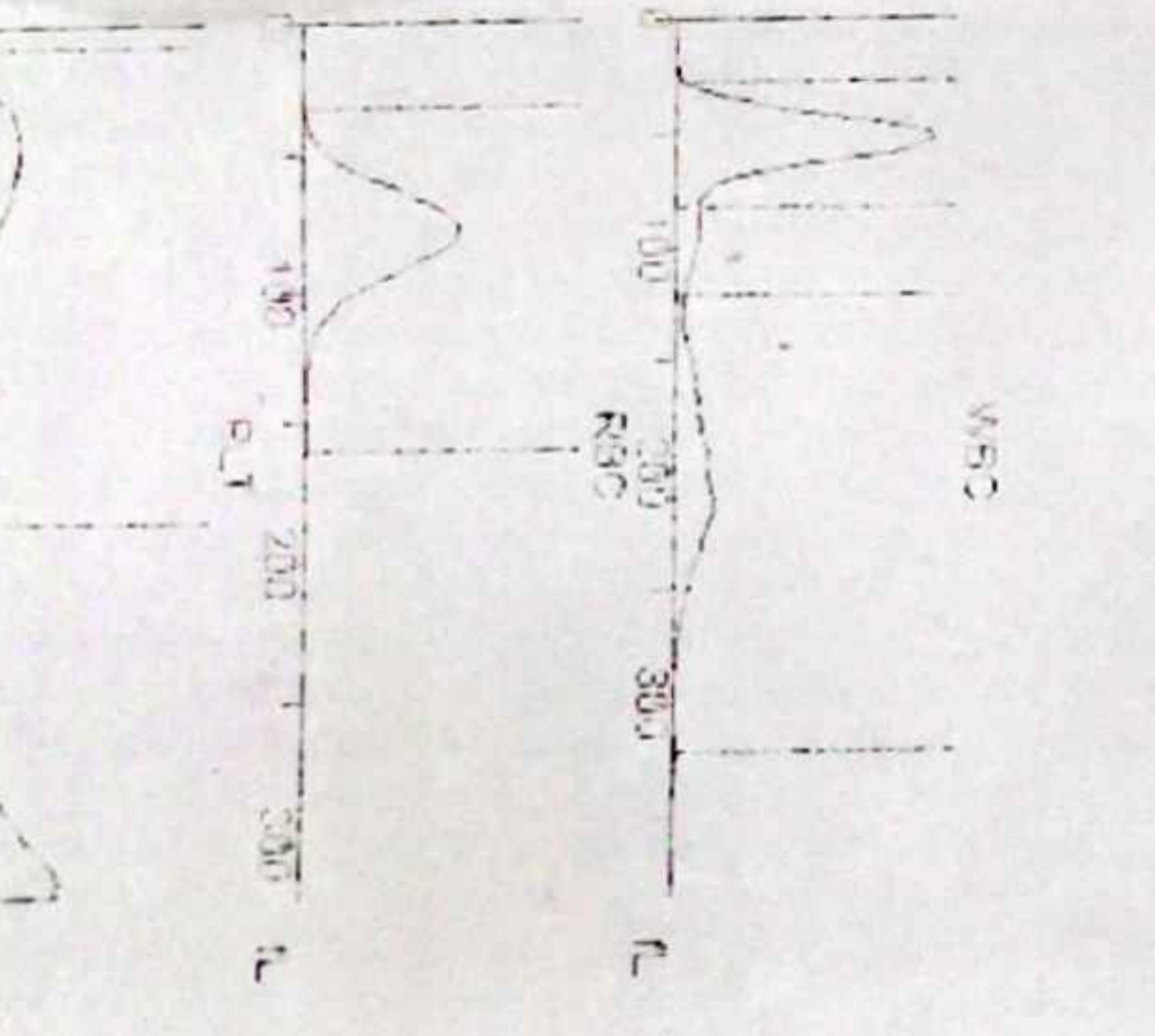
[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

LOW Sample

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 13:34

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.



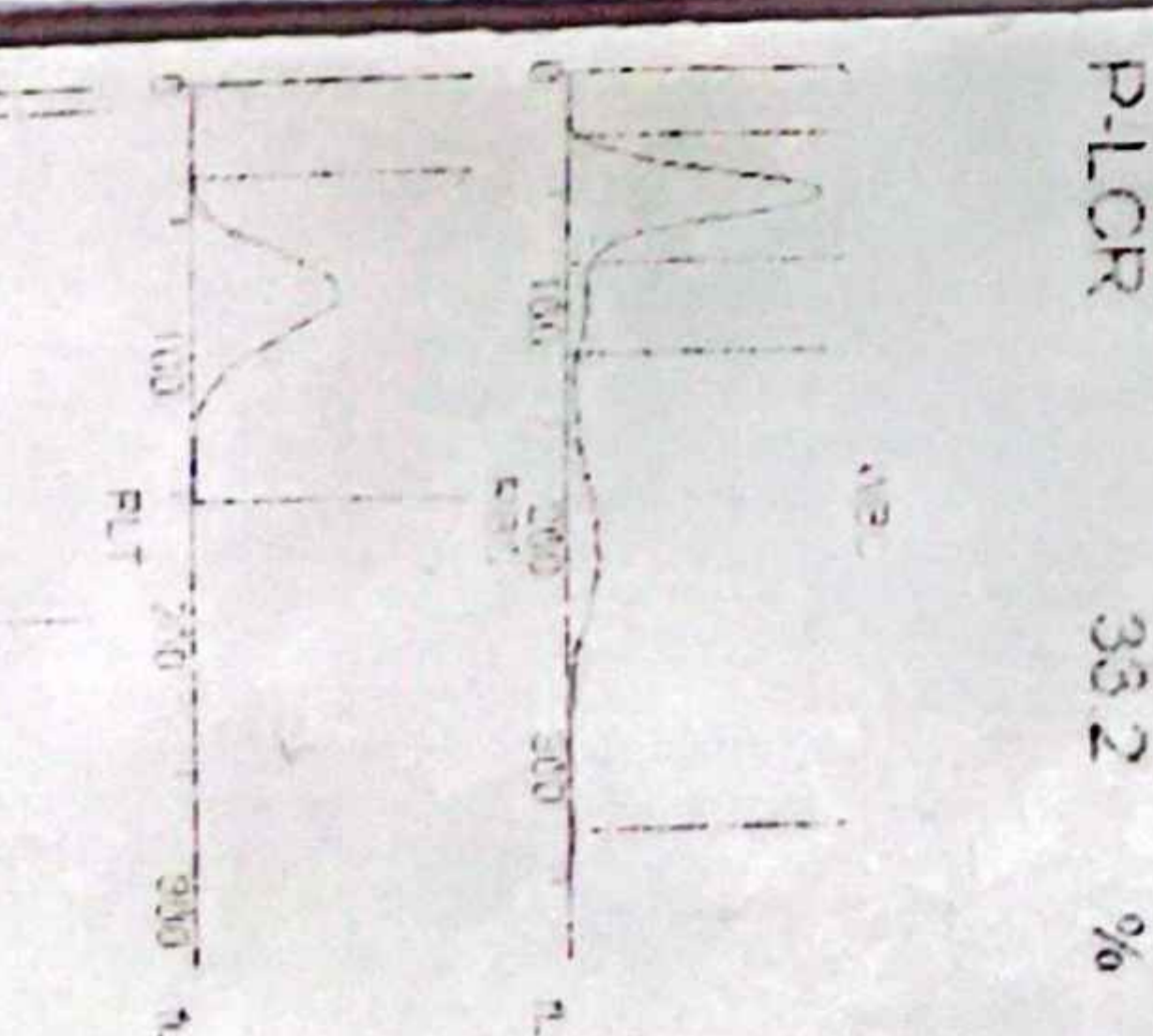
[This report only applies to the corresponding sample analyzed]

Hematology Analysis Report

LOW Sample

First Name: Last Name: Patient ID: Sample ID: Mode: Time of Analysis: 18/12/2023 13:33

Table with 3 columns: Modules, Result, Unit. Rows include WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.



[This report only applies to the corresponding sample analyzed]

BG 3

BG 4

BACK GR BUND

BG 1

BG 2

BG 3

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: W/B 18/12/2023 12:18

Table with columns: Modules, Result, Unit. Rows include WBC, Lymph#, Gran#, Mid%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: W/B 18/12/2023 12:17

Table with columns: Modules, Result, Unit. Rows include WBC, Lymph#, Gran#, Mid%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: W/B 18/12/2023 12:12

Table with columns: Modules, Result, Unit. Rows include WBC, Lymph#, Gran#, Mid%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: W/B 18/12/2023 12:14

Table with columns: Modules, Result, Unit. Rows include WBC, Lymph#, Gran#, Mid%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

Hematology Analysis Report

First Name: Last Name: Patient ID: Sample ID: W/B 18/12/2023 12:15

Table with columns: Modules, Result, Unit. Rows include WBC, Lymph#, Gran#, Mid%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR.

[This report only applies to the corresponding sample analyzed]

[This report only applies to the corresponding sample analyzed]

[This report only applies to the corresponding sample analyzed]

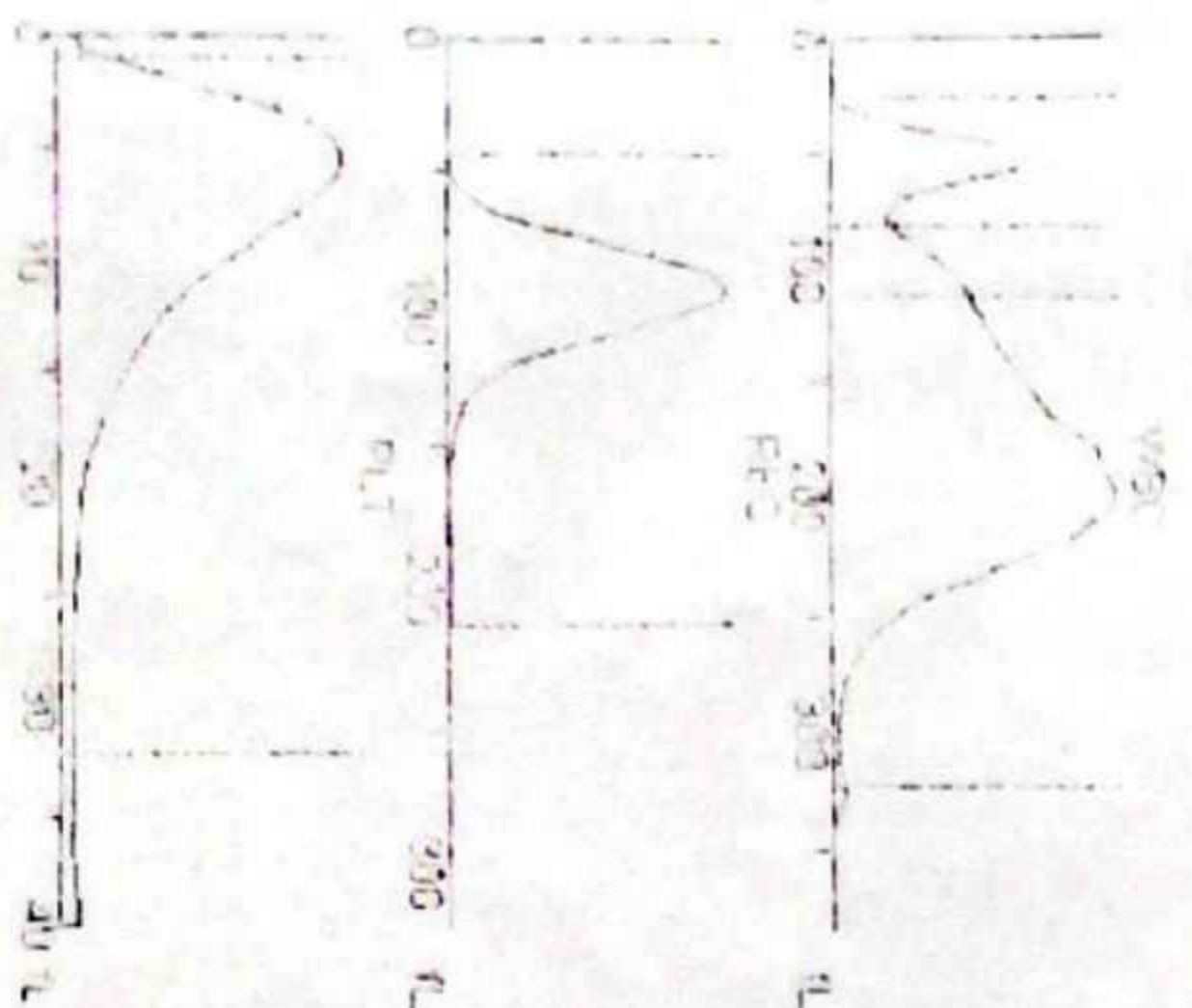
Hematology Analysis Report

High 5

First Name:
Last Name:

Patient ID: 10804203
Mode: V/B
Time of Analysis: 18/12/2023 12:50

Modules	Result	Unit
WBC	21.2	10 ⁹ /L
Lymph#	3.2	10 ⁹ /L
Mid#	1.7	10 ⁹ /L
Gran#	16.3	10 ⁹ /L
Lymph%	14.9	%
Mid%	7.9	%
Gran%	77.2	%
RBC	5.55	10 ¹² /L
HGB	18.7	g/dL
HCT	51.9	%
MCV	93.5	fL
MCH	33.7	pg
MCHC	36.0	g/dL
RDW-CV	14.4	%
RDW-SD	48.1	fL
PLT	620	10 ⁹ /L
MPV	9.5	fL
PDW	17.0	fL
PCT	0.590	%
P-LCC	155	10 ⁹ /L
P-LCR	25.0	%



[This report only applies to the corresponding sample analyzed]

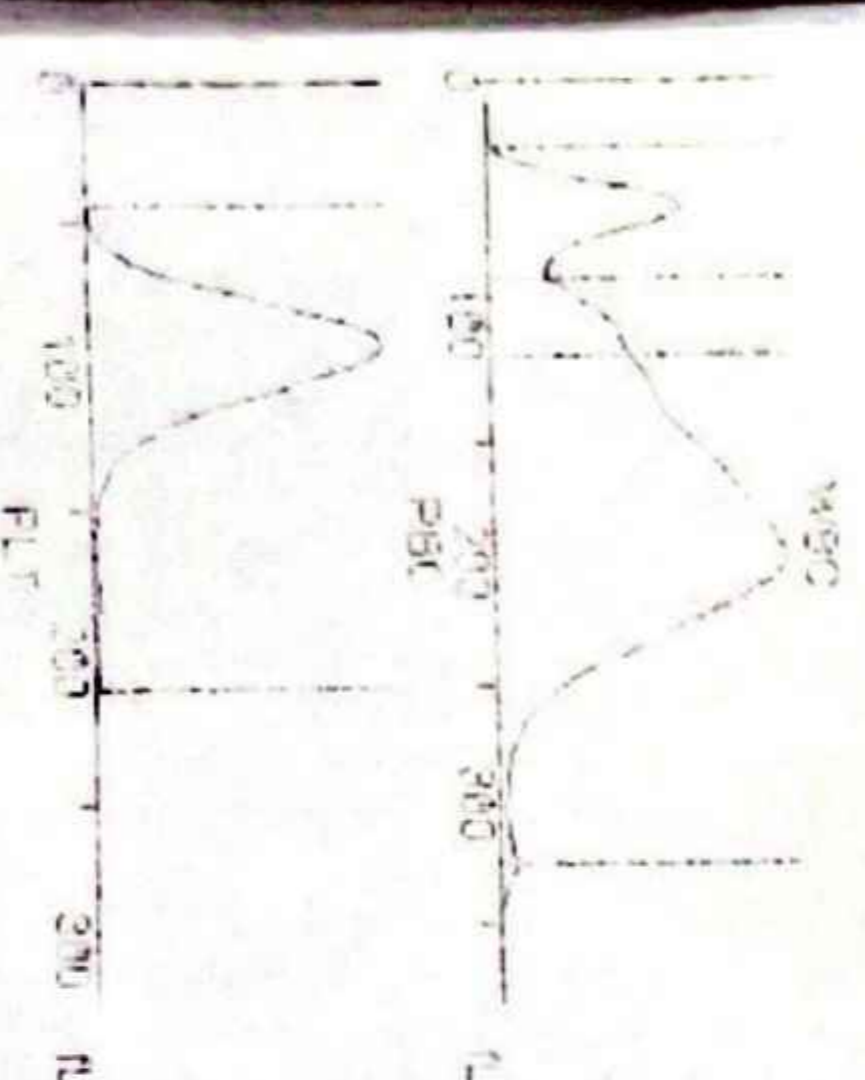
High 4

Hematology Analysis Report

First Name:
Last Name:

Patient ID: 10804203
Mode: V/B
Time of Analysis: 18/12/2023 12:48

Modules	Result	Unit
WBC	21.0	10 ⁹ /L
Lymph#	3.0	10 ⁹ /L
Mid#	1.8	10 ⁹ /L
Gran#	16.2	10 ⁹ /L
Lymph%	14.2	%
Mid%	8.6	%
Gran%	77.2	%
RBC	5.76	10 ¹² /L
HGB	18.6	g/dL
HCT	53.8	%
MCV	93.5	fL
MCH	32.3	pg
MCHC	34.5	g/dL
RDW-CV	14.6	%
RDW-SD	48.6	fL
PLT	643	10 ⁹ /L
MPV	9.4	fL
PDW	16.9	fL
PCT	0.607	%
P-LCC	158	10 ⁹ /L
P-LCR	24.5	%



[This report only applies to the corresponding sample analyzed]

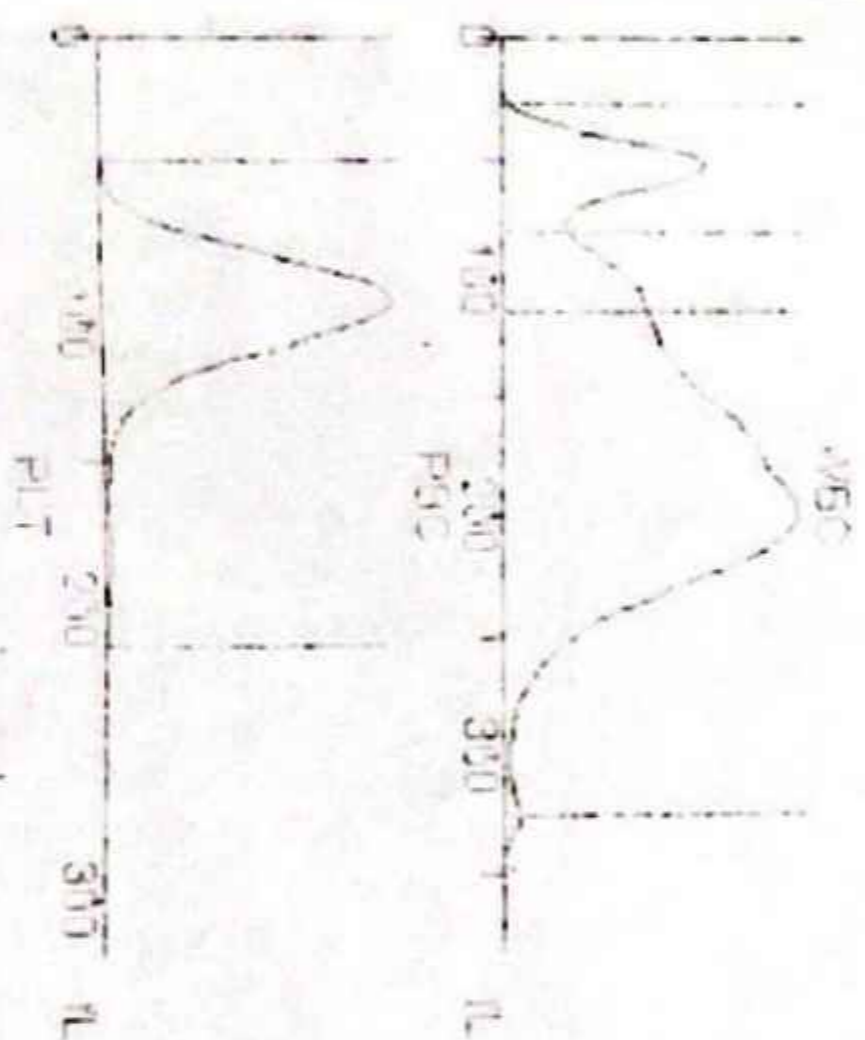
High 3

Hematology Analysis Report

First Name:
Last Name:

Patient ID: 10804203
Mode: V/B
Time of Analysis: 18/12/2023 12:47

Modules	Result	Unit
WBC	21.0	10 ⁹ /L
Lymph#	3.0	10 ⁹ /L
Mid#	1.9	10 ⁹ /L
Gran#	16.1	10 ⁹ /L
Lymph%	14.5	%
Mid%	9.0	%
Gran%	76.5	%
RBC	5.71	10 ¹² /L
HGB	18.5	g/dL
HCT	53.4	%
MCV	93.4	fL
MCH	32.4	pg
MCHC	34.7	g/dL
RDW-CV	14.8	%
RDW-SD	49.2	fL
PLT	639	10 ⁹ /L
MPV	9.4	fL
PDW	16.8	fL
PCT	0.601	%
P-LCC	153	10 ⁹ /L
P-LCR	24.0	%



[This report only applies to the corresponding sample analyzed]

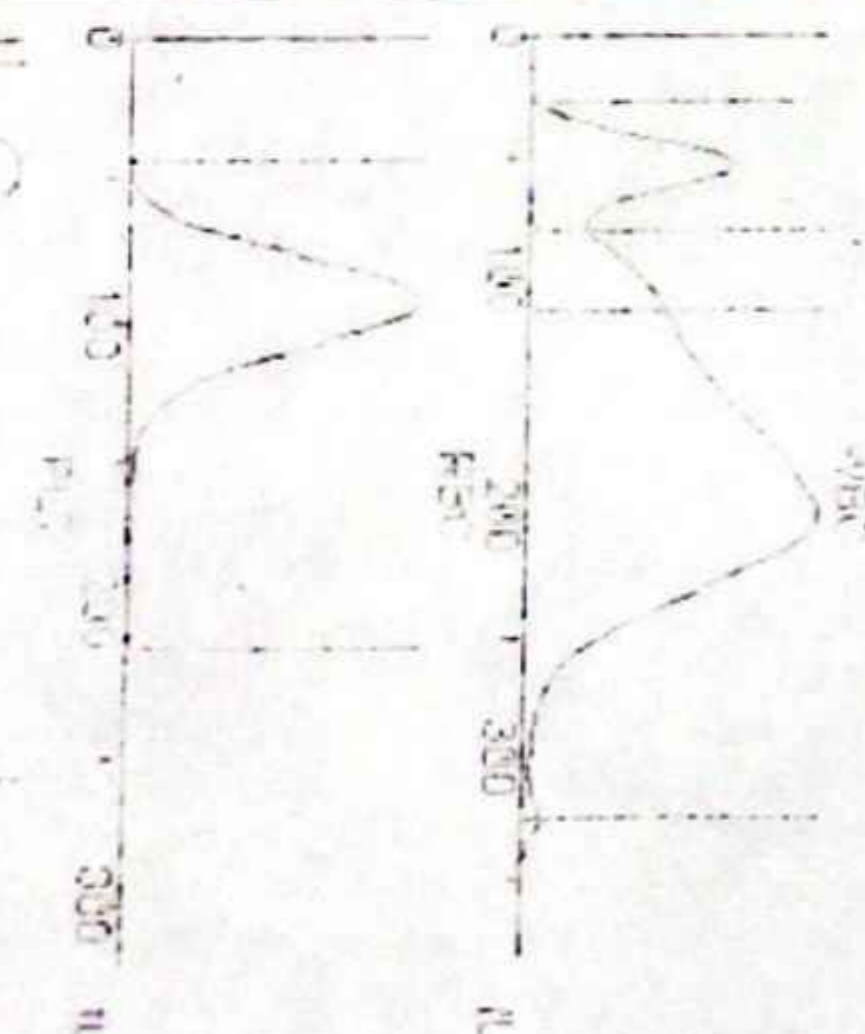
High 2

Hematology Analysis Report

First Name:
Last Name:

Patient ID: 10804203
Mode: V/B
Time of Analysis: 18/12/2023 12:45

Modules	Result	Unit
WBC	21.0	10 ⁹ /L
Lymph#	3.1	10 ⁹ /L
Mid#	1.7	10 ⁹ /L
Gran#	16.2	10 ⁹ /L
Lymph%	14.6	%
Mid%	8.3	%
Gran%	77.1	%
RBC	5.56	10 ¹² /L
HGB	18.5	g/dL
HCT	52.0	%
MCV	93.6	fL
MCH	33.4	pg
MCHC	35.6	g/dL
RDW-CV	14.8	%
RDW-SD	49.2	fL
PLT	615	10 ⁹ /L
MPV	9.5	fL
PDW	16.9	fL
PCT	0.586	%
P-LCC	151	10 ⁹ /L
P-LCR	24.6	%



[This report only applies to the corresponding sample analyzed]

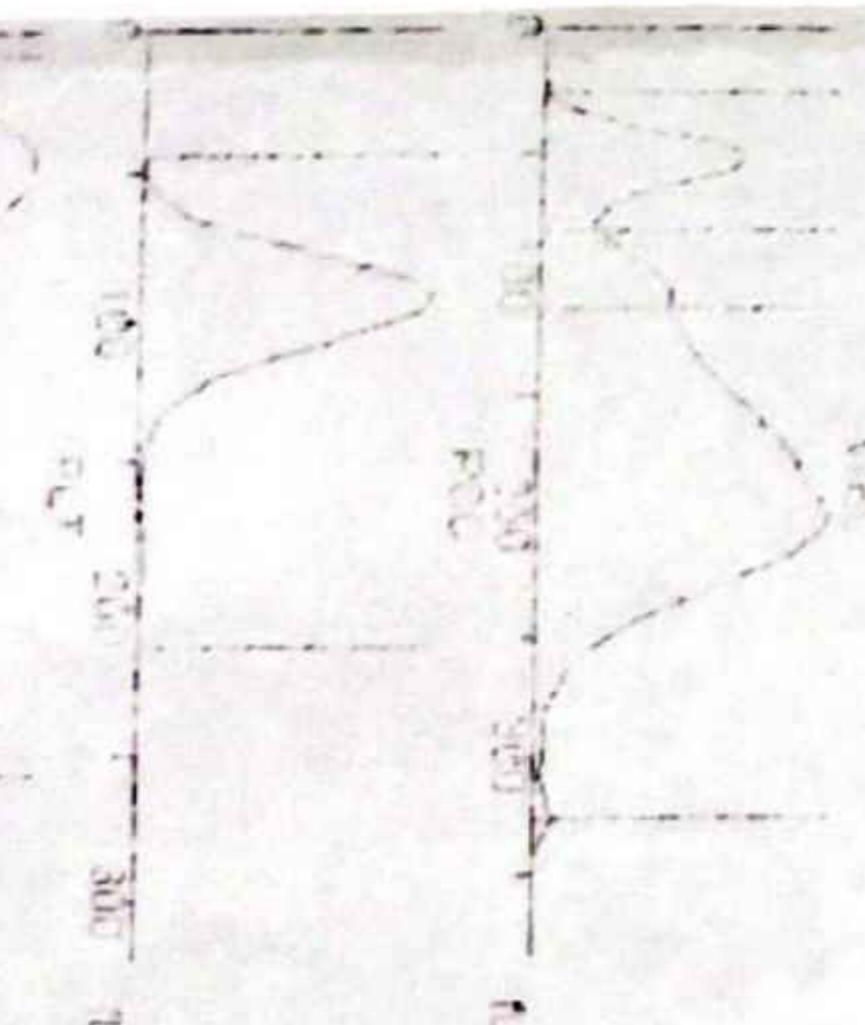
High 1

Hematology Analysis Report

First Name:
Last Name:

Patient ID: 10804203
Mode: V/B
Time of Analysis: 18/12/2023 12:44


Modules	Result	Unit
WBC	21.4	10 ⁹ /L
Lymph#	3.2	10 ⁹ /L
Mid#	1.7	10 ⁹ /L
Gran#	16.5	10 ⁹ /L
Lymph%	14.9	%
Mid%	8.1	%
Gran%	77.0	%
RBC	5.65	10 ¹² /L
HGB	18.6	g/dL
HCT	53.2	%
MCV	94.0	fL
MCH	32.9	pg
MCHC	35.0	g/dL
RDW-CV	14.7	%
RDW-SD	49.1	fL
PLT	634	10 ⁹ /L
MPV	9.5	fL
PDW	16.9	fL
PCT	0.602	%
P-LCC	156	10 ⁹ /L
P-LCR	24.9	%



[This report only applies to the corresponding sample analyzed]

S30 CALIBRATOR

FOR MINDRAY HEMATOLOGY ANALYZERS

LOT BC10923C-1
 2024-01-27

Calibration Values

Analyzer	Parameter	Values	Range
BC-3600, BC-3300	WBC $\times 10^9/L$	8.5	± 0.3
	RBC $\times 10^{12}/L$	4.30	± 0.10
	HGB g/L	136	± 2
	MCV fL	92.5	± 2.0
	PLT $\times 10^9/L$	247	± 15
BC-3200, BC-3000CT	WBC $\times 10^9/L$	8.6	± 0.3
	RBC $\times 10^{12}/L$	4.36	± 0.10
	HGB g/L	136	± 2
	MCV fL	91.9	± 2.0
	PLT $\times 10^9/L$	243	± 15
BC-2900, BC-1800, BC-3000 Plus	WBC $\times 10^9/L$	8.3	± 0.3
	RBC $\times 10^{12}/L$	4.44	± 0.10
	HGB g/L	137	± 2
	MCV fL	92.2	± 2.0
	PLT $\times 10^9/L$	236	± 15
BC-2800, BC-2800Vet, BC-2600, BC-2600Vet	WBC $\times 10^9/L$	8.4	± 0.3
	RBC $\times 10^{12}/L$	4.17	± 0.10
	HGB g/L	136	± 2
	MCV fL	93.0	± 2.0
	PLT $\times 10^9/L$	262	± 15
BC-2300, BC-2100	WBC $\times 10^9/L$	7.9	± 0.3
	RBC $\times 10^{12}/L$	4.04	± 0.10
	HGB g/L	133	± 2
	MCV fL	92.9	± 2.0
	PLT $\times 10^9/L$	247	± 15
BC-20s, BC-21s BC-30s, BC-31s BC-30, BC-31, BC-30e	WBC $\times 10^9/L$	8.3	± 0.3
	RBC $\times 10^{12}/L$	4.01	± 0.10
	HGB g/L	135	± 2
	MCV fL	96.4	± 2.0
	PLT $\times 10^9/L$	244	± 15
BC-20, BC-21 BC-10, BC-11, BC-10e	WBC $\times 10^9/L$	8.3	± 0.3
	RBC $\times 10^{12}/L$	4.15	± 0.10
	HGB g/L	135	± 2
	MCV fL	95.2	± 2.0
	PLT $\times 10^9/L$	259	± 15