

Customer: HEER CLINICAL LABORATORY

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Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER

Title: IQ,OQ & PQ DOCUMENT

Doc. No. : TMQ/060618/HEER/BC240

Installation Qualification for Mindray BS240 Sr. No.:- YX-85001600

Customer Name : HEER CLINICAL LABORATORY

Contact Person : DR. ANIL SHAH

Instrument Model : BS240

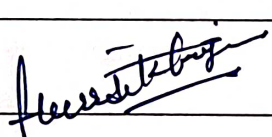
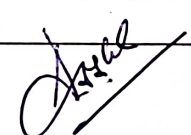
Serial No. : YX-85001600

Date Of installation : 06/06/2018

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: HEER CLINICAL LABORATORY

116,National Plaza,Opp. Aurvadic College,Lal Darwaja Road,Surat.

Service Engineer		Customer	
Signature:		Signature:	

TANISH MEDIQUIP

REGI. OFFICE – D-228,230,232 UDHNA UDHYOG NAGAR SANGH , ROAD NO. 10 , UDHNA, SURAT(GUJARAT).

M-9978942271/73/75

EMAIL- TANISHMEDIQUIP@GMAIL.COM

Customer: HEER CLINICAL LABORATORY

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Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER**Title: IQ,OQ & PQ DOCUMENT****Doc. No. : TMQ/060618/HEER/BC240**

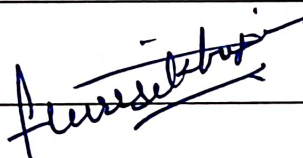
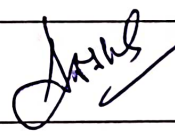
Installation Certificate For BS240 Sr. No.- YX-85001600

This is to certify that the instrument BS240 Sr. No:- YX-85001600 is successfully installed and commissioned at :

HEER CLINICAL LABORATORY**116,National Plaza,Opp. Aurvadic College,Lal Darwaja Road,Surat**

and the Installation Protocol/ checklist has been Successfully completed for the above Instrument.

Date of Installation : 06/06/2018**TMQ , Technical Services Department**

Service Engineer		Customer	
Signature:		Signature:	

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Customer: HEER CLINICAL LABORATORY

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Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER**Title: IQ,OQ & PQ DOCUMENT****Doc. No. : TMQ/060618/HEER/BC240**

Installation Qualification for Mindray BS240 Sr. No.:- YX-85001600

Customer Name : HEER CLINICAL LABORATORY
Contact Person : DR. ANIL SHAH
Instrument Model : BS240
Serial No. : YX-85001600
Date Of installation : 06/06/2018

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.

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Customer: HEER CLINICAL LABORATORY

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Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER

Title: IQ, OQ & PQ DOCUMENT

Doc. No. : TMQ/060618/HEER/BC240

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 BS240 Sr. No.:- YX-85001600

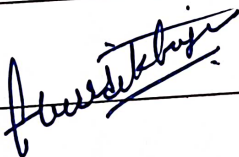

Carried out all the installation procedures as per the installation procedure and checklists.

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

TMQ , Technical Services Department

Service Engineer		Customer	
Signature:		Signature:	

Customer: HEER CLINICAL LABORATORY		Page 6 of 8
Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER		
Title: IQ,OQ & PQ DOCUMENT	Doc. No. : TMQ/060618/HEER/BC240	

Operational Qualification:

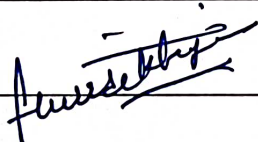
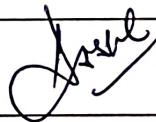
System Certification:

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.

Customer Authorization : **HEER CLINICAL LABORATORY**
116,National Plaza,Opp. Aurvadic College,Lal Darwaja Road,Surat

Service Engineer		Customer	
Signature:		Signature:	

Customer: HEER CLINICAL LABORATORY

Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER

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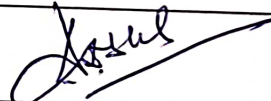
Title: IQ, OQ & PQ DOCUMENT

Doc. No. : TMQ/060618/HEER/BC240

Operations Qualifications for BS240 Sr. No.- YX-85001600

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

TMQ , Technical Services Department

Service Engineer		Customer	
Signature:		Signature:	

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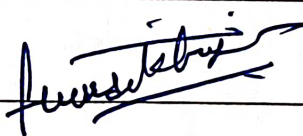

Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER
Title: IQ, OQ & PQ DOCUMENT
Doc. No. : TMQ/060618/HEER/BC240

Instrument Setup

1. Assembled the instrument accessories.
2. Removed the shipping Clamps.
3. Installed the Reagent/ Sample probes .
4. Installed the Reagent/Sample mixers.
5. Prepared and connected the Detergent Solution
6. Connected the Waste Tubing
7. Connected the Communication Cable.
8. Connected the Power cord and connection cord.
9. Connected the PC And Cpu.
10. Install the software.
11. Initialize 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.

Service Engineer		Customer	
Signature:		Signature:	

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Customer: HEER CLINICAL LABORATORY

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Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER**Title:** Instrument Performance Qualification

Doc. No. : TMQ/060618/HEER/BC240

INSTRUMENT PERFORMANCE QUALIFICATION

BS 240 FULLY BIOCHEMISTRY ANALYSER

Customer Name	HEER CLINICAL LABORATORY
Model	BS240
Serial No.	YX-85001600
Installation Date	06/06/2018

Customer: HEER CLINICAL LABORATORY

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Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER

Title: Instrument Performance Qualification

Doc. No. : TMQ/060618/HEER/BC240

1 Introduction:

1.1 BS-240 is a computer-controlled fully-automated chemistry analyzer, intended for quantitative determination of clinical chemistries in serum, plasma, urine, cerebrospinal fluid (CSF), and other human body fluids. It can fulfill auto dispensing, reaction, colorimetric measurement, process monitoring, and result calculation. It provides measurement of multiple biochemistries with maximum throughput up to 400 tests per hour. It is one of the necessary tools for laboratory automation.

2 Objective:

2.1 To verify instrument performance and its suitability as per its specifications provided in manual and customer requirements.

3 Rationale for Performing Qualification:

3.1 This Qualification Protocol pertains to the verification of the Performance of the Biochemistry Analyzer (BS 240), at the Ribosome Research Center Pvt Ltd.

4 References:

4.1 BS-240 Chemistry Analyzer Operator's Manual.

5 Responsibilities:**5.1 Service / Installation Engineer:**

5.1.1 To carry out/execute the Performance qualification.

5.2 User Department (Customer Site):

Customer: HEER CLINICAL LABORATORY

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Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER

Title: Instrument Performance Qualification

Doc. No. : TMQ/060618/HEER/BC240

5.2.1 To assist vendor's technician in qualification process.

6 Definitions and Abbreviations:

6.1 Definitions:

None

6.2 Abbreviations:

None

7 Description:

Performance verification of the BS 240 Fully Auto Biochemistry Analyzer includes following activities:

1. Basic Performance Check
2. Clinical Performance Check

7.1 Basic Performance Check:

Basic performance check covers the normal functions of the instrument that includes:

1. Start up
2. Optical System
3. Temperature Control

Customer: HEER CLINICAL LABORATORY

Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER

Title: Instrument Performance Qualification

Doc. No. : TMQ/060618/HEER/BC240

7.1.1 Startup:

Below mentioned parameter shall be checked:

Sr. No.	Parameters	Checked By:
1.	Power ON Succeed	<input checked="" type="checkbox"/>
2.	Communication Succeed	<input checked="" type="checkbox"/>
3.	Mechanical Reset Succeed	<input checked="" type="checkbox"/>
4.	Startup Succeed	<input checked="" type="checkbox"/>

7.1.2 Optical system Verification:

Below step to be followed for verification of optical system.

1. Click on Utility
2. Click on Maintenance
3. Click on Biochemistry Maintenance
4. Click on Photometer Check.

Customer: HEER CLINICAL LABORATORY

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Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER

Title: Instrument Performance Qualification

Doc. No. : TMQ/060618/HEER/BC240

7.1.2.1 Result:

- Record the basic information of optical system
- Absorbance stability check

No.	Wavelength (nm)	Absorbance(1)
1	340	6787
2	405	6709
3	450	5793
4	510	5294
5	546	5610
6	578	5527
7	630	5675
8	670	6034

7.1.3 Temperature control:

- Record the reaction temperature For 5 Minute

Below step to be followed for verification of Temperature.

1. Click on Utility
2. Click on Status
3. Click on Temperature

7.2 CLINICAL PERFORMANCE CHECK:

Customer: HEER CLINICAL LABORATORY

Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER

Title: Instrument Performance Qualification

Doc. No. : TMQ/060618/HEER/BC240

7.2.1 Clinical Performance check of instrument shall verify the suitability and ability of instrument to perform the functions as per the requirements.
It includes:

- I. Control sample verifications
- II. Repeatability of Controls
- III. Repeatability of Samples

7.2.2 Control Sample Verifications:

7.2.2.1 Below mentioned control sample shall be verified against the customer's requirements. Acceptance criteria of control sample shall be as per the provided instruction document with respective parameter kit.

7.2.2.2 Results:

7.2.3 Sample Repeatability:

Repeatability of control shall be verified through calculation of % CV of analyzed controls that cover under below mentioned methods:

1. End Point method
2. Fixed time method:
3. Kinetic Method:

7.2.4 Results:

Customer: HEER CLINICAL LABORATORY

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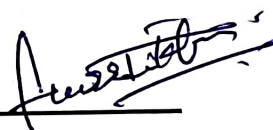
Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER

Title: Instrument Performance Qualification

Doc. No. : TMQ/060618/HEER/BC240

Assay Chemistry	GLU		CREAT		SGPT	
1	137.8		1.36		78.4	
2	136.4		1.36		76.2	
3	136.9		1.36		77.7	
4	135.3		1.35		77.8	
5	135.4		1.35		78.9	
6	134.6		1.34		76.4	
7	135.2		1.35		76.5	
8	135		1.36		77.1	
9	135.1		1.33		77.5	
10	134		1.35		75	
Mean	135.57		1.351		77.15	
SD	1.1363195		0.00994428		1.15397862	
%CV	0.83817924		0.736068783		1.495759721	

Executed By (Sign & date): _____



Customer: HEER CLINICAL LABORATORY

Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER

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Title: Instrument Performance Qualification

Doc. No. : TMQ/060618/HEER/BC240

7.2.5 Sample Repeatability

Repeatability of samples shall be verified through calculation of % CV.

7.2.5.1 Results for Serum:

8 Deviation (If any):

9 Attachments:

10 Post Approval and Conclusion:

10.1 Summary Report:

According to the information collected and reviewed as a result of this PQ, it is our opinion that the Qualification has been / has not been completed and satisfactory results have been / have not been obtained, with the exception of those related to the following items on which corrective action is required:

Number of items requiring Corrective Action: N/A

This PQ cannot be approved if any Corrective Actions (CA) could in anyway compromise the company's procedures or standards.

The number of outstanding CA's is: N/A

Signing this block below confirms that all variations and failures listed within this PQ have been accounted for in the Summary Report. This qualification has therefore been completed.

Customer: HEER CLINICAL LABORATORY

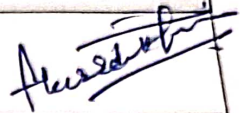
Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER

Title: Instrument Performance Qualification

Doc. No. : TMQ/060618/HEER/BC240

10.2

Approval:

PQ COMPLETION / APPROVAL			
DEPARTMENT	NAME	DESIGNATION	SIGN & DATE
Service / Installation Engineer	Hardik	Service Engineer	
User Department	Biochemistry		06/06/2018

QC Result

Control	Lot No.	Chemistry	Lot No.	Unit	Measured Result	Set		Flag	Run Date/Time
						Mean	SD		
MINDRAY QC	050217006	CREA-J		mg/dL	1.48	1.32	0.07		06/06/2018 09:39:49 PM
MINDRAY QC	050217006	UREA		mg/dL	40.61	40.2	2		06/06/2018 09:50:55 PM
MINDRAY QC	050217006	ALT		U/L	57.78	59.4	3		06/06/2018 09:39:49 PM
MINDRAY QC	050217006	AST		U/L	47.54	47.9	2.4		06/06/2018 09:40:43 PM
MINDRAY QC	050217006	D-bil-D II		mg/dL	0.79	0.778	0.058		06/06/2018 09:56:19 PM
MINDRAY QC	050217006	T-bil-D II		mg/dL	1.16	1.19	0.09		06/06/2018 09:56:01 PM
MINDRAY QC	050217006	ALB		g/dL	5.17	4.78	0.24		06/06/2018 09:51:49 PM
MINDRAY QC	050217006	UA		mg/dL	4.82	4.82	0.22		06/06/2018 09:58:43 PM
MINDRAY QC	050217006	ALP		U/L	85.44	82.9	4.1		06/06/2018 09:51:31 PM
MINDRAY QC	050217006	TG		mg/dL	101.76	100	4		06/06/2018 09:56:55 PM
MINDRAY QC	050217006	TC		mg/dL	76.46	76.2	3.5		06/06/2018 09:52:25 PM
MINDRAY QC	050217006	TP		g/dL	6.70	6.89	0.34		09/06/2018 03:28:41 PM
MINDRAY QC	050217006	TP		g/dL	6.66	6.89	0.34		09/06/2018 03:28:59 PM

Customer: HEER CLINIAL LABORATORY

Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER

Date : 13/02/2023

Title: Instrument Calibration Certificate

Certificate No.: TMQ/HEER/130223/BS240

Instrument Detail

Equipment	MODEL	SERIAL NO.	SOFTWARE VERSION
FULLY AUTO BIOCHEMISTRY ANALYZER	BS240	YX-85001600	V24.00.05

Calibration Procedure

No.	Unit	Parameter	Calibrated & Verified
1.	Sample & Reagent Carousel	Sample/Reagent Carousel Outer Ring Aspiration Stop Position	<input checked="" type="checkbox"/>
		Sample/Reagent Carousel Middle Ring Aspiration Stop Position	<input checked="" type="checkbox"/>
		Sample/Reagent Carousel Inner Ring Aspiration Stop Position	<input checked="" type="checkbox"/>
		Outer Ring Barcode Scanning	<input checked="" type="checkbox"/>
		inner Ring Barcode Scanning	<input checked="" type="checkbox"/>
		Probe Vertical/Horizontal Position on Wash Well	<input checked="" type="checkbox"/>
		Horizontal Aspirate Position on Sample/Reagent Carousel Outer Ring	<input checked="" type="checkbox"/>
		Horizontal Aspirate Position on Sample/Reagent Carousel Middle Ring	<input checked="" type="checkbox"/>
2.	Mixer	Mixer Horizontal Wash Position	<input checked="" type="checkbox"/>
		Sample Mixing Horizontal Position	<input checked="" type="checkbox"/>
		Sample Mixing Vertical Position	<input checked="" type="checkbox"/>

Customer: HEER CLINIAL LABORATORY

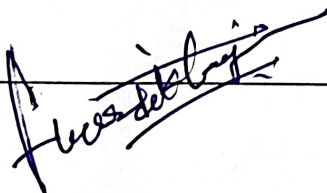
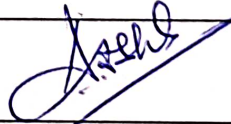
Equipment: BS 240 FULLY AUTO BIOCHEMISTRY ANALYZER

Date : 13/02/2023

Title: Instrument Calibration Certificate

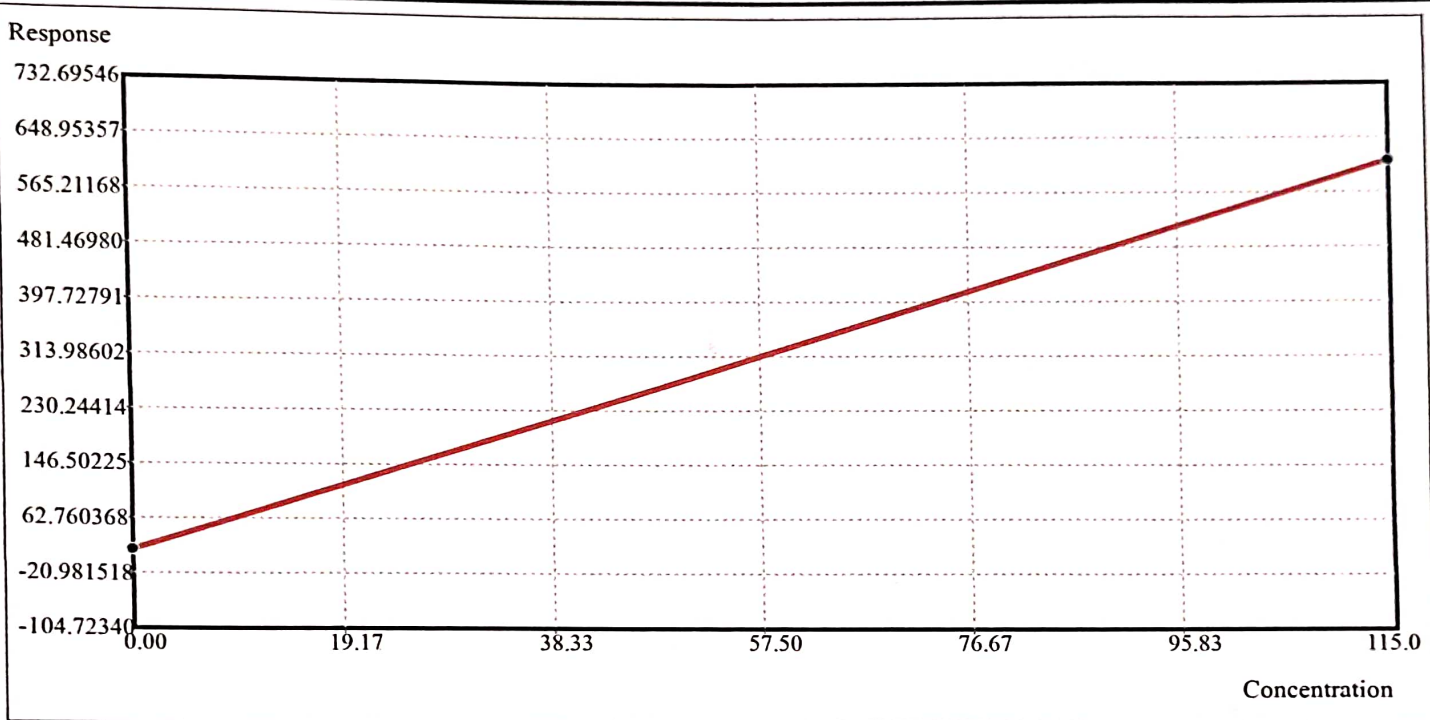
Certificate No.: TMQ/HEER/130223/BS240

3.	Reaction Carousel	Photo Electricity Gain Channel 340	<input checked="" type="checkbox"/>
		Photo Electricity Gain Channel 405	<input checked="" type="checkbox"/>
		Photo Electricity Gain Channel 450	<input checked="" type="checkbox"/>
		Photo Electricity Gain Channel 510	<input checked="" type="checkbox"/>
		Photo Electricity Gain Channel 546	<input checked="" type="checkbox"/>
		Photo Electricity Gain Channel 578	<input checked="" type="checkbox"/>
		Photo Electricity Gain Channel 630	<input checked="" type="checkbox"/>
		Photo Electricity Gain Channel 670	<input checked="" type="checkbox"/>
4.	Temperature Control	Reaction Carousel Sensor 1 A	<input checked="" type="checkbox"/>
		Reagent Carousel Sensor 1 B	<input checked="" type="checkbox"/>
		Pre-Heater Temperature 1 C	<input checked="" type="checkbox"/>
5.	Cuvette Automatic Wash	Reaction Carousel dispensing position	<input checked="" type="checkbox"/>
		Reaction Carousel washing position.	<input checked="" type="checkbox"/>
		Fluidic Prime Complete	<input checked="" type="checkbox"/>

Service Engineer		Customer	
Signature:		Signature:	

Calibration Report

Chemistry:	Y-GT		Math Model:	Two-Point Linear	
Unit:	U/L	Replicates: 1	Cal Date/Time:	01/02/2023 06:50:19 PM	
Rgt Type	Lot No.	Serial No.	Rgt Type	Lot No.	Serial No.
R1			R2		

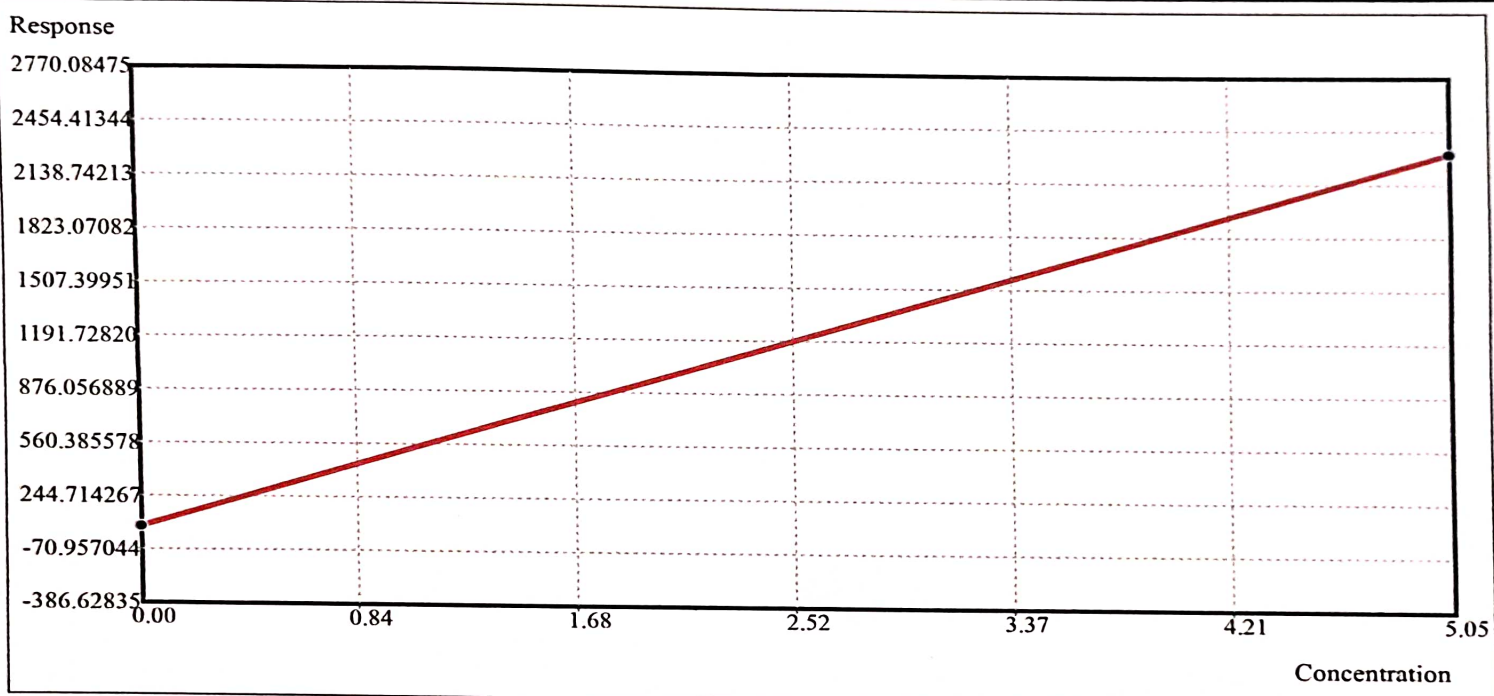


Calibration Data				Calibration Parameter			
Calibrator	Conc	Resp	Lot No.	Parameter	Value	Parameter	Value
BLANK-8	0.00	14.9		R0	14.9079		
MINDRAYCAL	115.00	613.1	150122009	K	0.1923		

Performed By: *(Signature)* Checked by: *(Signature)*

Calibration Report

Chemistry: P
 Unit: mg/dL Replicates: 1 Math Model: Two-Point Linear
 Rgt Type Lot No. Serial No. Cal Date/Time: 16/02/2023 10:22:56 AM
 R1



Calibration Data				Calibration Parameter			
Calibrator	Conc	Resp	Lot No.	Parameter	Value	Parameter	Value
BLANK-8	0.00	64.3		R0	64.3307		
MINDRAYCAL	5.05	2319.1	150122009	K	0.0022		

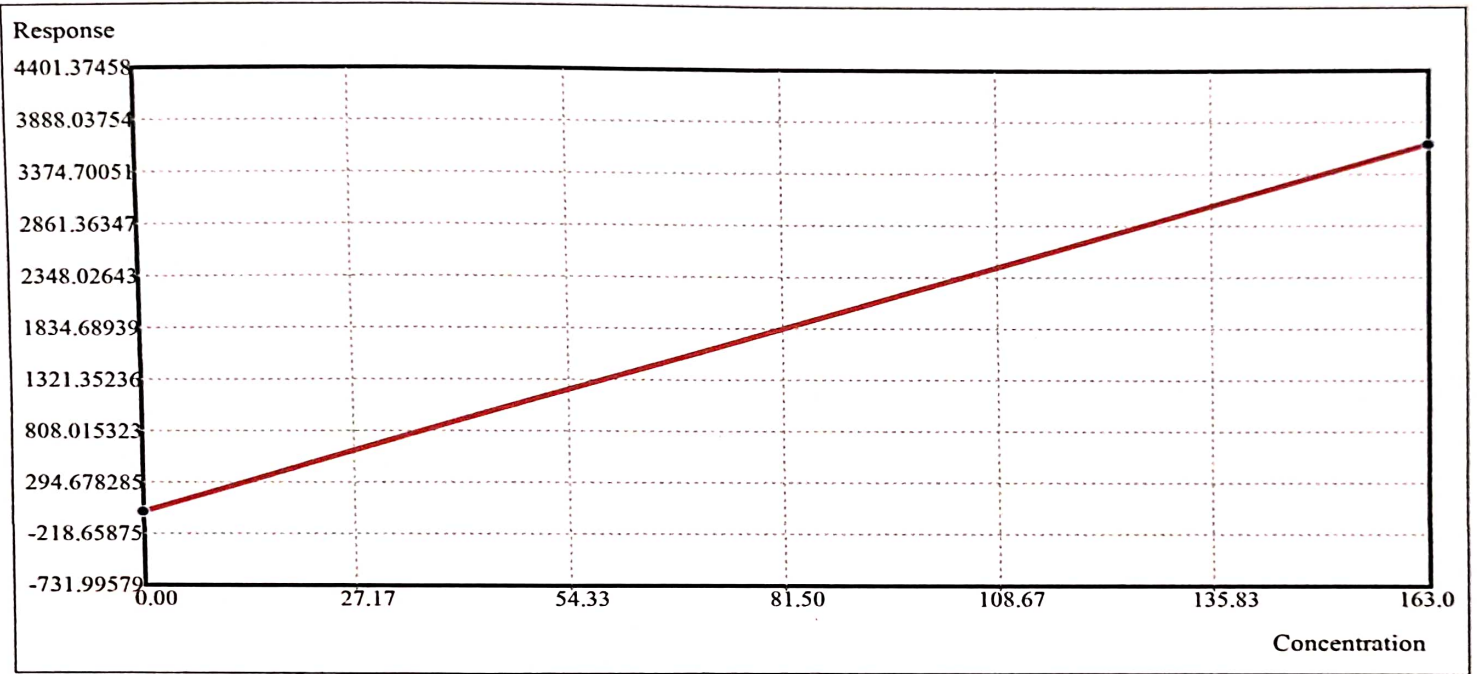
Performed By :- *(Mo)*

Checked by :- *(Signature)*

Calibration Report

Chemistry:	TC	Math Model:	Two-Point Linear
Unit:	mg/dL	Replicates:	1
Rgt Type	Lot No.	Serial No.	
		Rgt Type	Lot No.
			Serial No.

R1



Calibration Data				Calibration Parameter			
Calibrator	Conc	Resp	Lot No.	Parameter	Value	Parameter	Value
BLANK-8	0.00	1.3		R0	1.3428		
MINDRAYCAL	163.00	3668.0	150122009	K	0.0445		

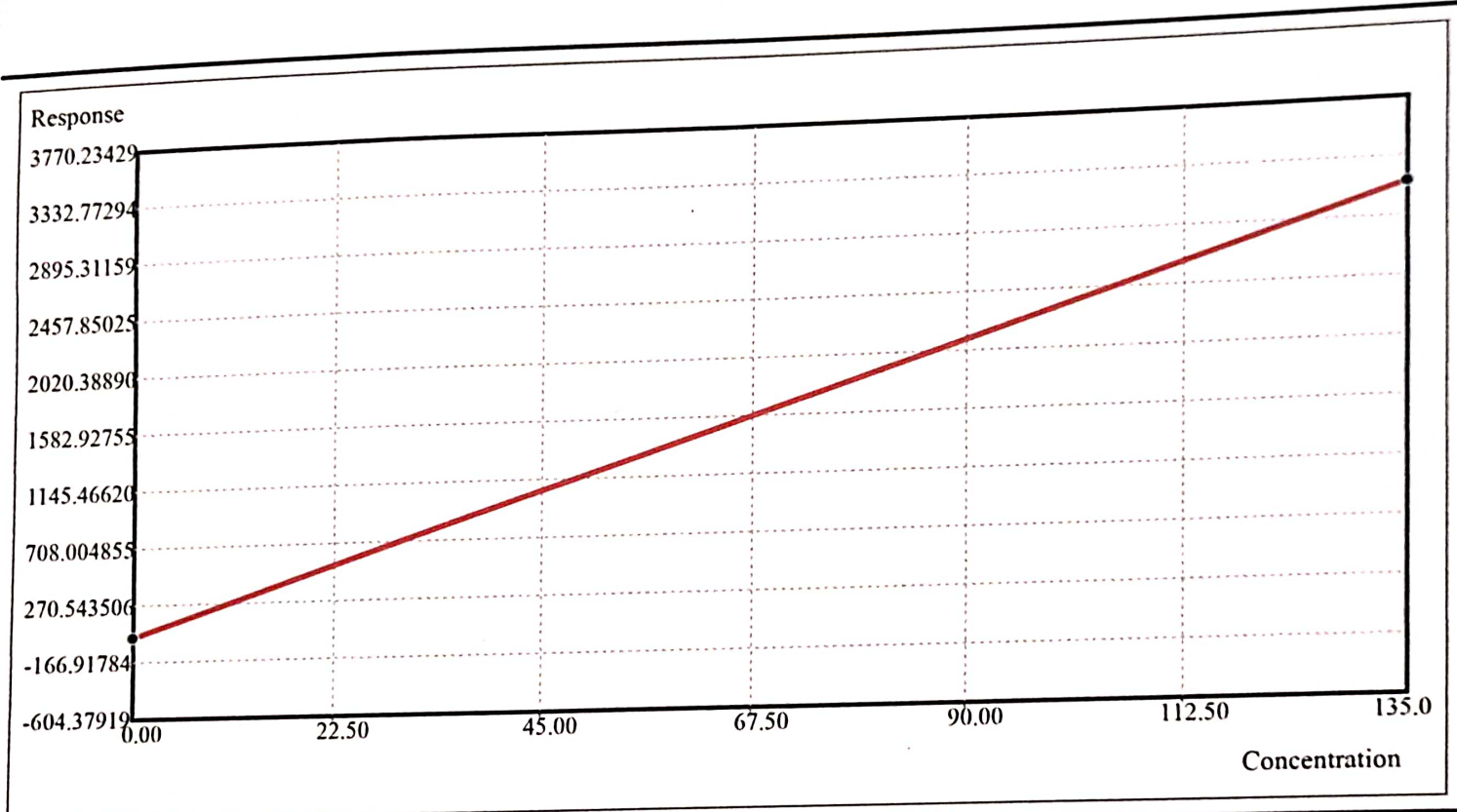
Performed By :- *(Signature)*

Checked by :- *(Signature)*

Calibration Report

Chemistry:	TG	Replicates:	1	Math Model:	Two-Point Linear
Unit:	mg/dL	Cal Date/Time:			04/04/2023 04:04:07 PM
Rgt Type	Lot No.	Serial No.		Rgt Type	Lot No.
					Serial No.

R1



Calibration Data			Calibration Parameter				
Calibrator	Conc	Resp	Lot No.	Parameter	Value	Parameter	Value
BLANK-8	0.00	20.6		R0	20.5656		
MINDRAYCAL	135.00	3145.3	150122009	K	0.0432		

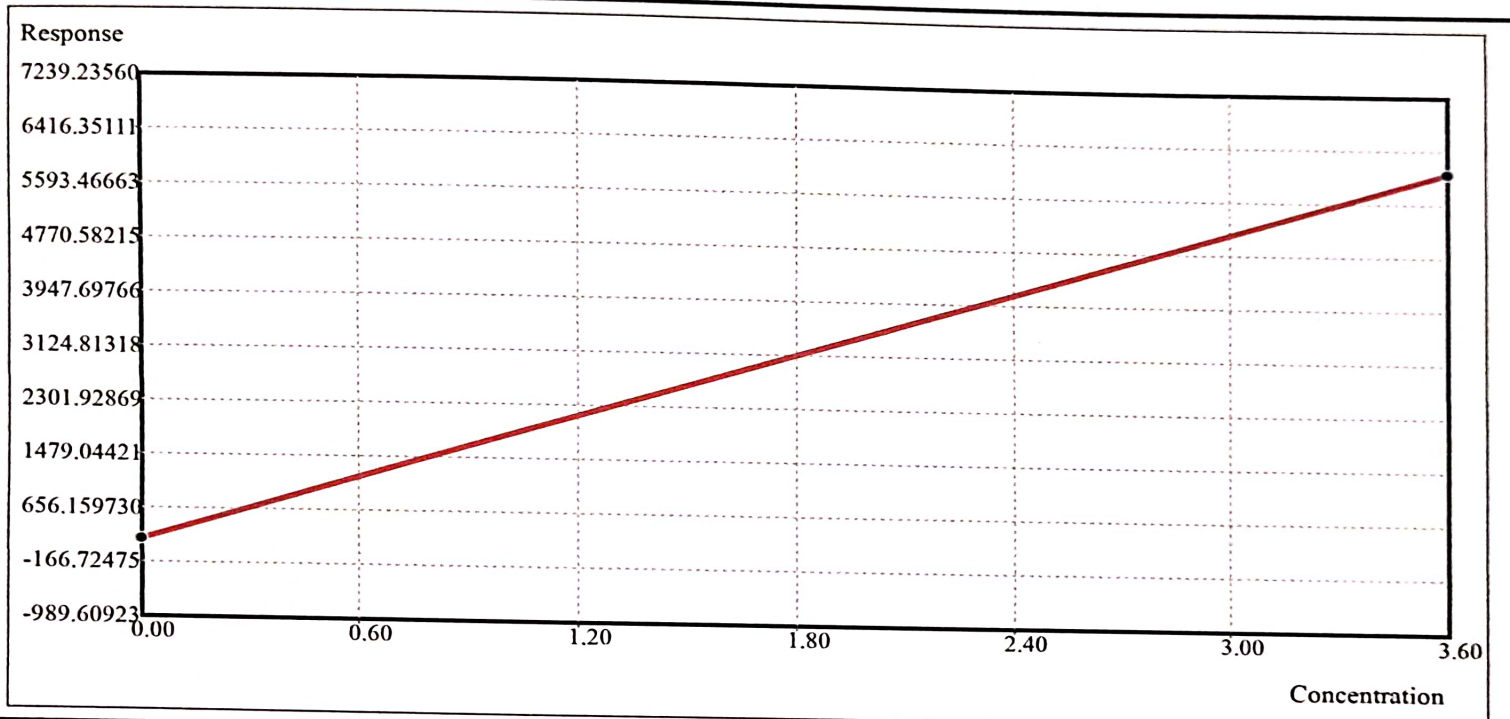
Performed By: *Me*

Checked By: *Ja*

Calibration Report

Chemistry:	ALB			Math Model:	Two-Point Linear	
Unit:	g/dL	Replicates:	1	Cal Date/Time:	05/03/2021 11:27:53 AM	
Rgt Type	Lot No.	Serial No.		Rgt Type	Lot No.	Serial No.

R1



Calibration Data				Calibration Parameter			
Calibrator	Conc	Resp	Lot No.	Parameter	Value	Parameter	Value
BLANK	0.00	185.9		R0	185.9400		
AGAPPE MC	3.60	6063.7	30110040	K	0.0006		

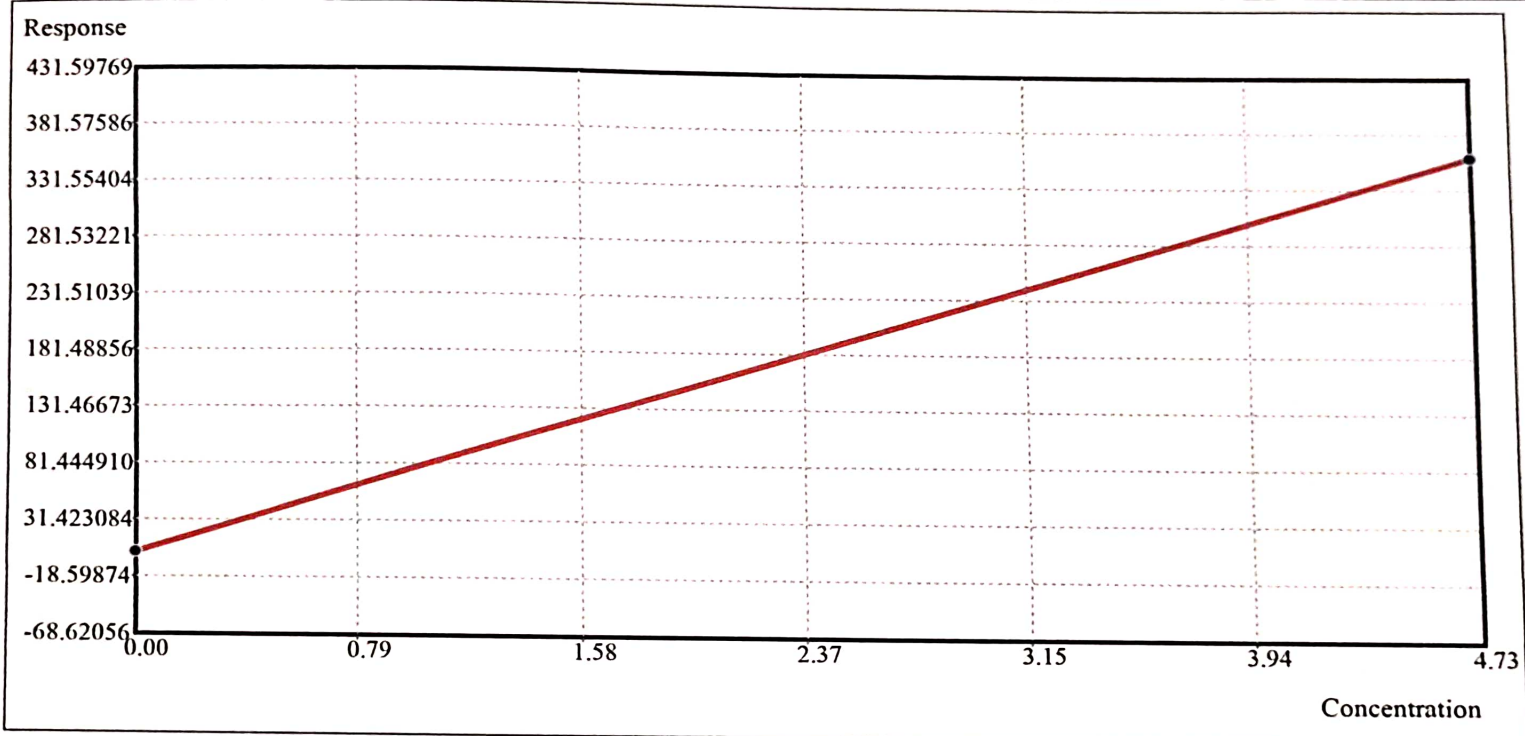
Performed By: *Me*

Checked By: *[Signature]*

Calibration Report

Chemistry:	T-bil-D II	Math Model:	Two-Point Linear
Unit:	mg/dL	Replicates:	1
Rgt Type	Lot No.	Cal Date/Time:	16/02/2023 10:19:56 AM
	Serial No.	Rgt Type	Lot No.
			Serial No.

R1 R2



Calibration Data				Calibration Parameter			
Calibrator	Conc	Resp	Lot No.	Parameter	Value	Parameter	Value
BLANK-8	0.00	2.8		R0	2.8392		
MINDRAYCAL	4.73	360.1	150122009	K	0.0132		

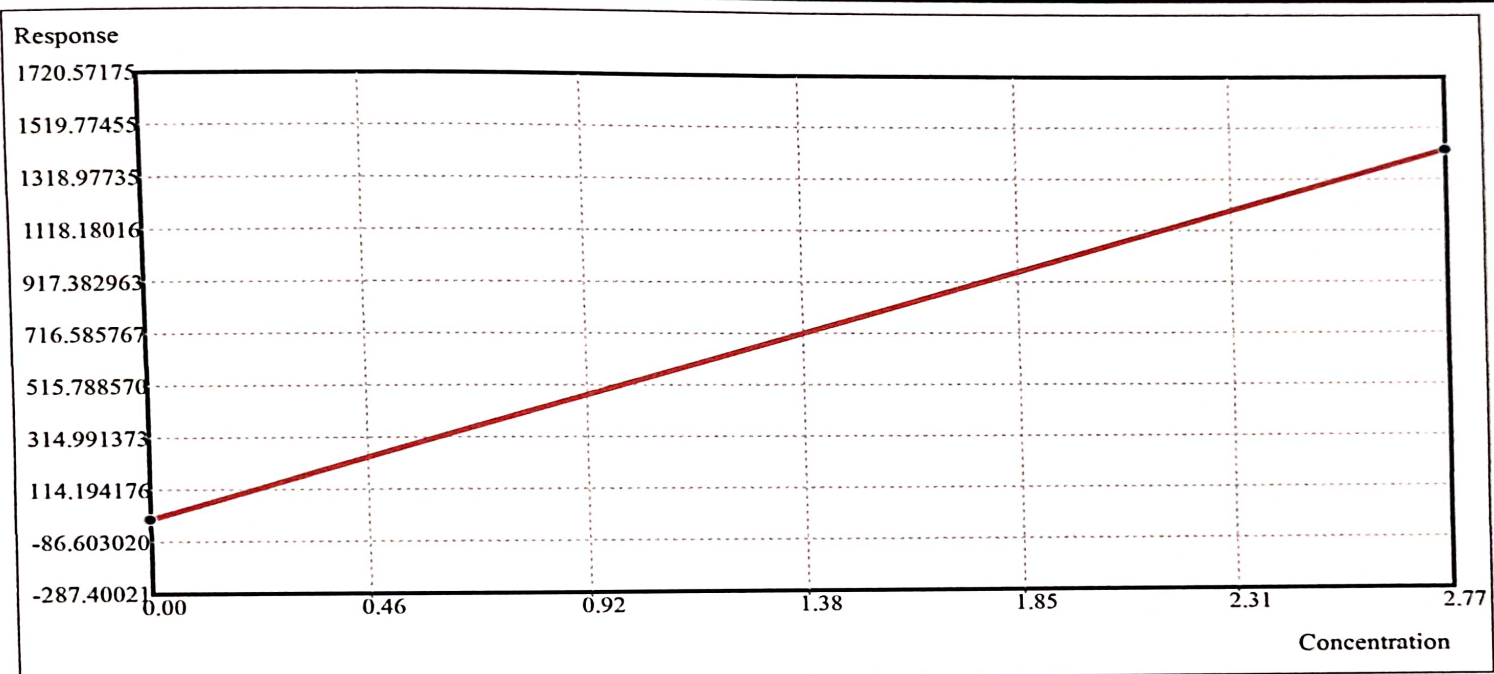
Performed By: *(Signature)*

Checked by: *(Signature)*

Calibration Report

Chemistry:	D-bil-D II	Math Model:	Two-Point Linear
Unit:	mg/dL	Replicates:	1
Rgt Type	Lot No.	Cal Date/Time:	16/02/2023 10:20:14 AM
	Serial No.	Rgt Type	Lot No.
		Serial No.	

R1 R2

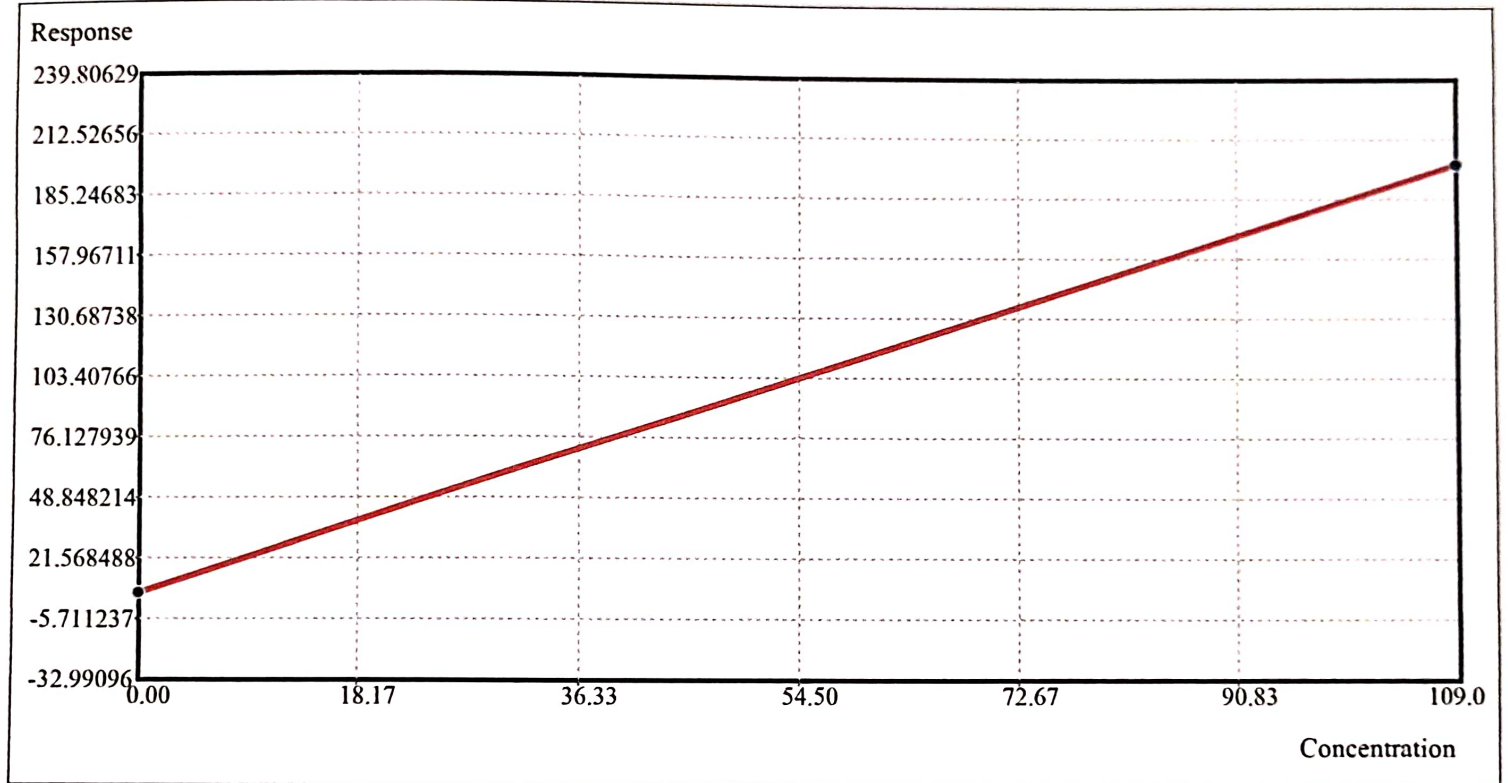


Calibration Data				Calibration Parameter			
Calibrator	Conc	Resp	Lot No.	Parameter	Value	Parameter	Value
BLANK-8	0.00	-0.5		R0	-0.5471		
MINDRAYCAL	2.77	1433.7	150122009	K	0.0019		

Performed By :- *Me* Checked By :- *J*

Calibration Report

Chemistry:	AST		Math Model:	Two-Point Linear		
Unit:	U/L	Replicates:	1	Cal Date/Time:	16/02/2023 10:16:20 AM	
Rgt Type	Lot No.	Serial No.		Rgt Type	Lot No.	Serial No.
R1				R2		



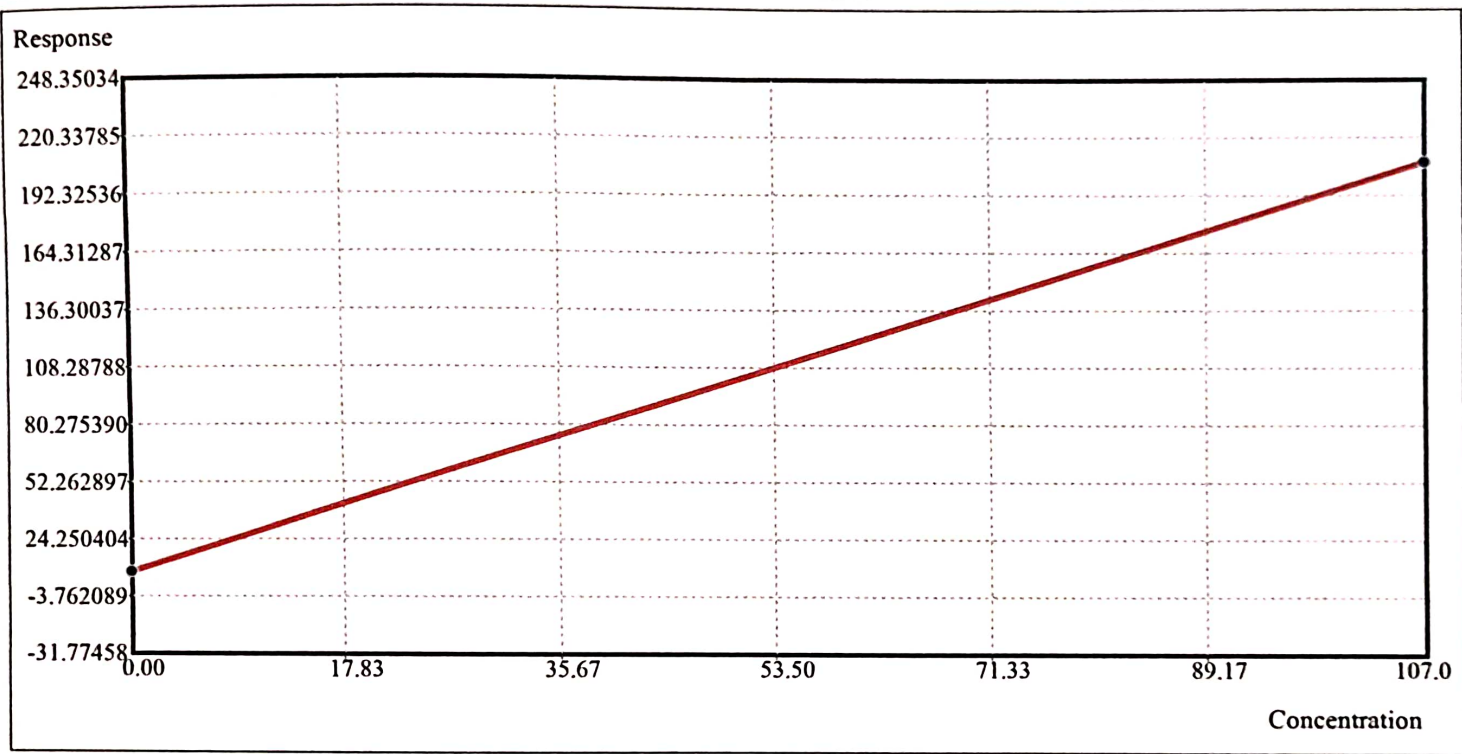
Calibration Data			Calibration Parameter				
Calibrator	Conc	Resp	Lot No.	Parameter	Value	Parameter	Value
BLANK-8	0.00	6.0		R0	5.9801		
MINDRAYCAL	109.00	200.8	150122009	K	0.5594		

Performed By :-

Checked By :- *[Signature]*

Calibration Report

Chemistry:	ALT	Math Model:	Two-Point Linear
Unit:	U/L	Replicates:	1
		Cal Date/Time:	13/03/2023 10:45:49 AM
Rgt Type	Lot No.	Serial No.	
R1			R2



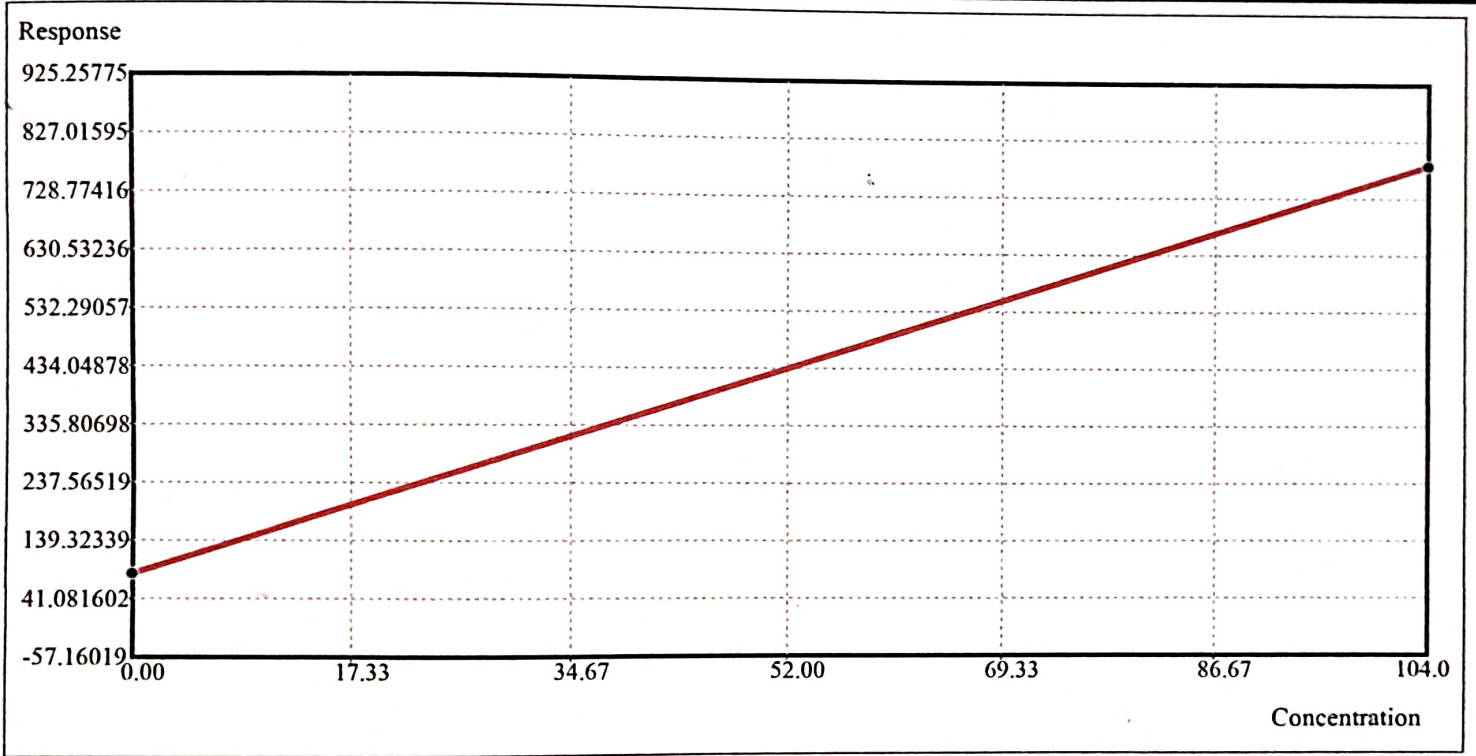
Calibration Data			Calibration Parameter				
Calibrator	Conc	Resp	Lot No.	Parameter	Value	Parameter	Value
BLANK-8	0.00	8.2		R0	8.2433		
MINDRAYCAL	107.00	208.3	150122009	K	0.5348		

Performed By: *Me*

Checked By: *J*

Calibration Report

Chemistry:	UREA	Math Model:	Two-Point Linear
Unit:	mg/dL	Replicates:	1
Rgt Type	Lot No.	Serial No.	Cal Date/Time:
			30/03/2023 11:51:17 AM
R1			R2



Calibration Data			Calibration Parameter				
Calibrator	Conc	Resp	Lot No.	Parameter	Value	Parameter	Value
BLANK-8	0.00	83.2		R0	83.1852		
MINDRAYCAL	104.00	784.9	150122009	K	0.1482		

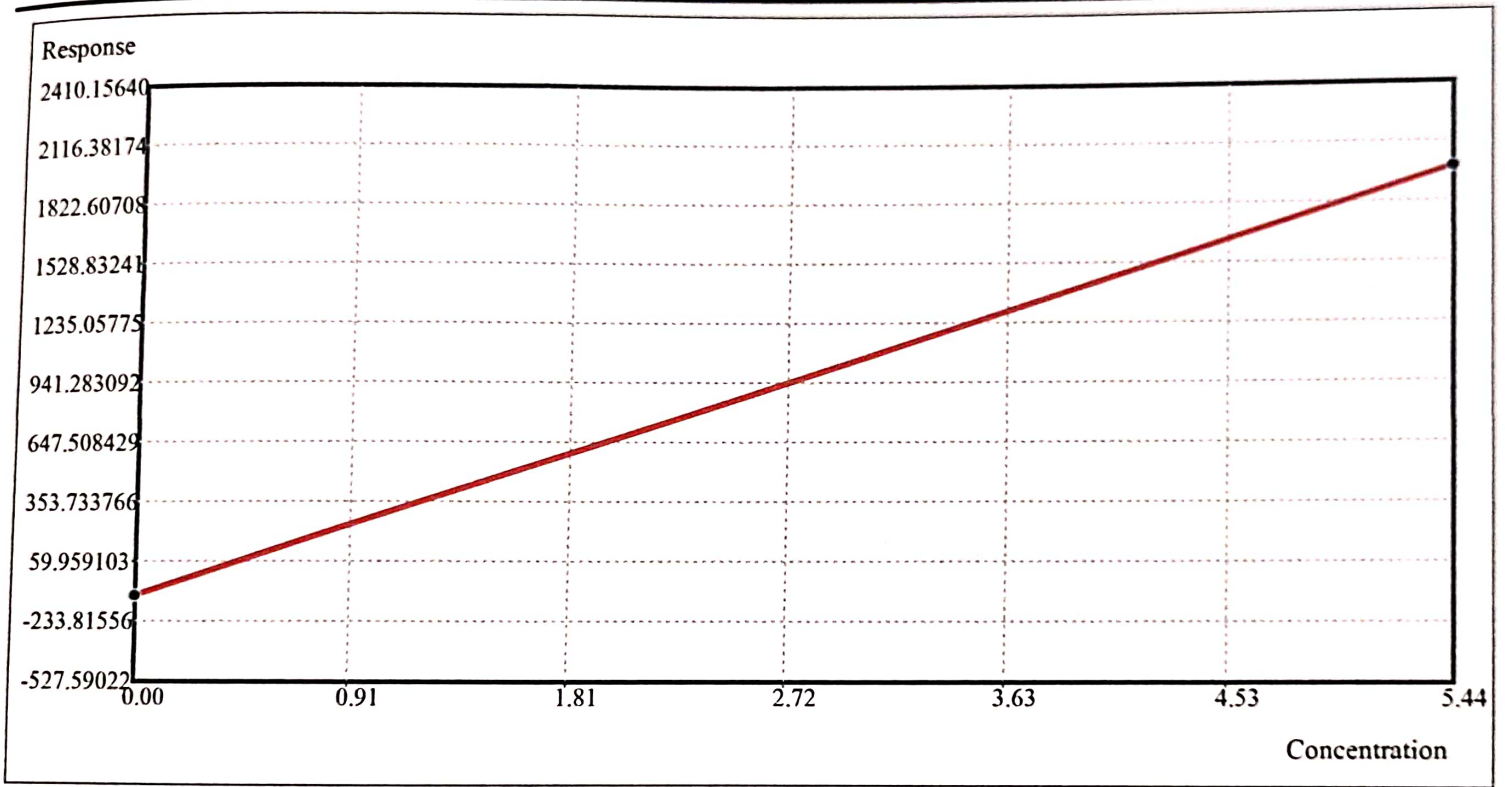
Performed By: *[Signature]*

Checked By: *[Signature]*

Calibration Report

Chemistry:	TP-AGP	Math Model:	Two-Point Linear
Unit:	g/dL	Replicates:	1
Rgt Type	Lot No.	Serial No.	
		Rgt Type	Lot No.
		Serial No.	

R1



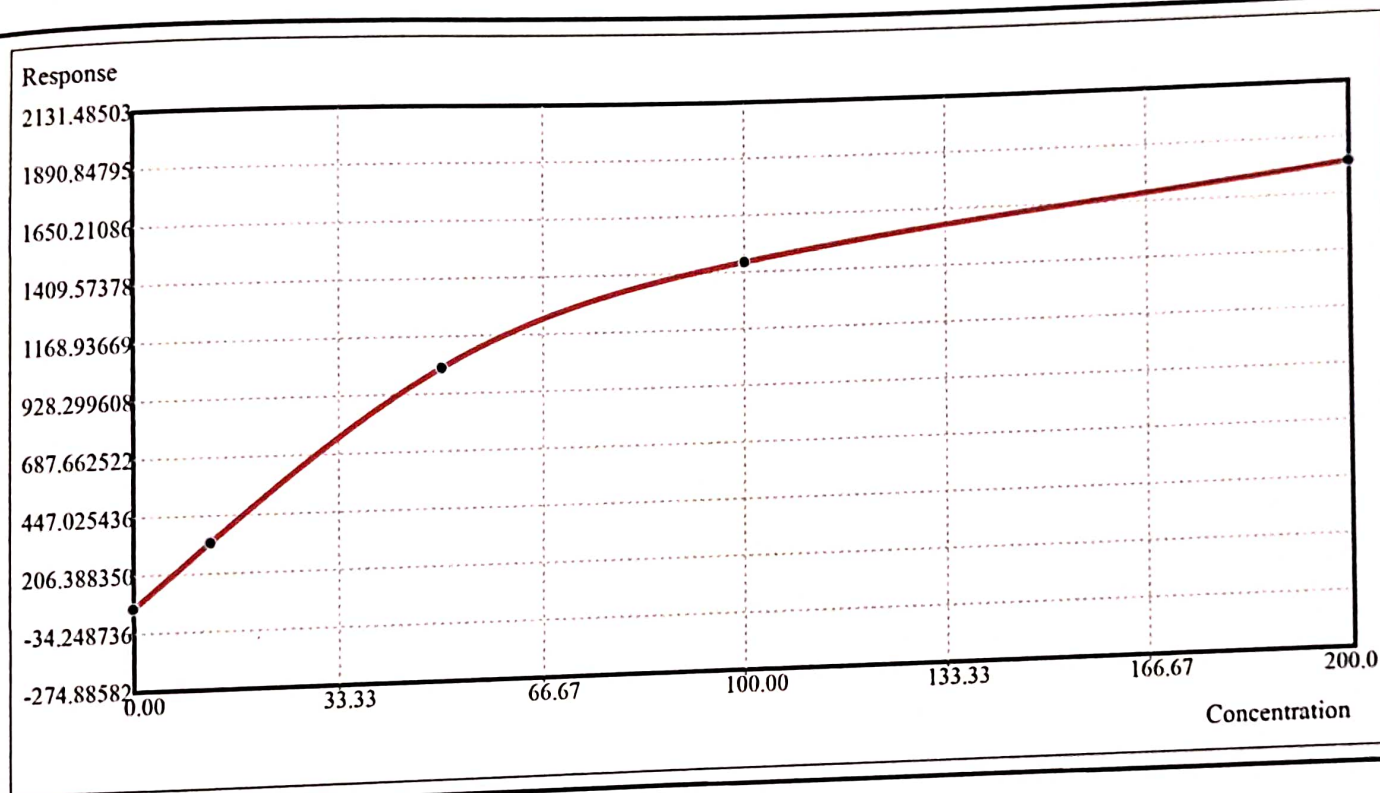
Calibration Data				Calibration Parameter			
Calibrator	Conc	Resp	Lot No.	Parameter	Value	Parameter	Value
BLANK-8	0.00	-107.9		R0	-107.9121		
MINDRAYCAL	5.44	1990.5	150122009	K	0.0026		

Performed By: *M*

Checked By: *J*

Calibration Report

Chemistry: CRP-MERIL Math Model: Spline
 Unit: mg/L Replicates: 1 Cal Date/Time: 29/12/2022 04:41:08 PM
 Rgt Type Lot No. Serial No. Rgt Type Lot No. Serial No.
 R1 R2



Calibration Data				Calibration Parameter			
Calibrator	Conc	Resp	Lot No.	Parameter	Value	Parameter	Value
BLANK	0.00	68.9	0000	R00	68.8814	B3	-0.0254
CRP 13.1	12.50	334.5		A0	21.2523	C3	0.0001
CRP 52.5	50.00	1036.8		B0	0.0066		
CRP 100	100.00	1451.4		C0	-0.0005		
CRP 210	200.00	1787.7		R01	334.5355		
				A1	21.1694		
				B1	-0.0133		
				C1	-0.0014		
				R02	1036.8134		
				A2	14.3412		
				B2	-0.1688		
				C2	0.0010		
				R03	1451.3804		
				A3	4.6321		

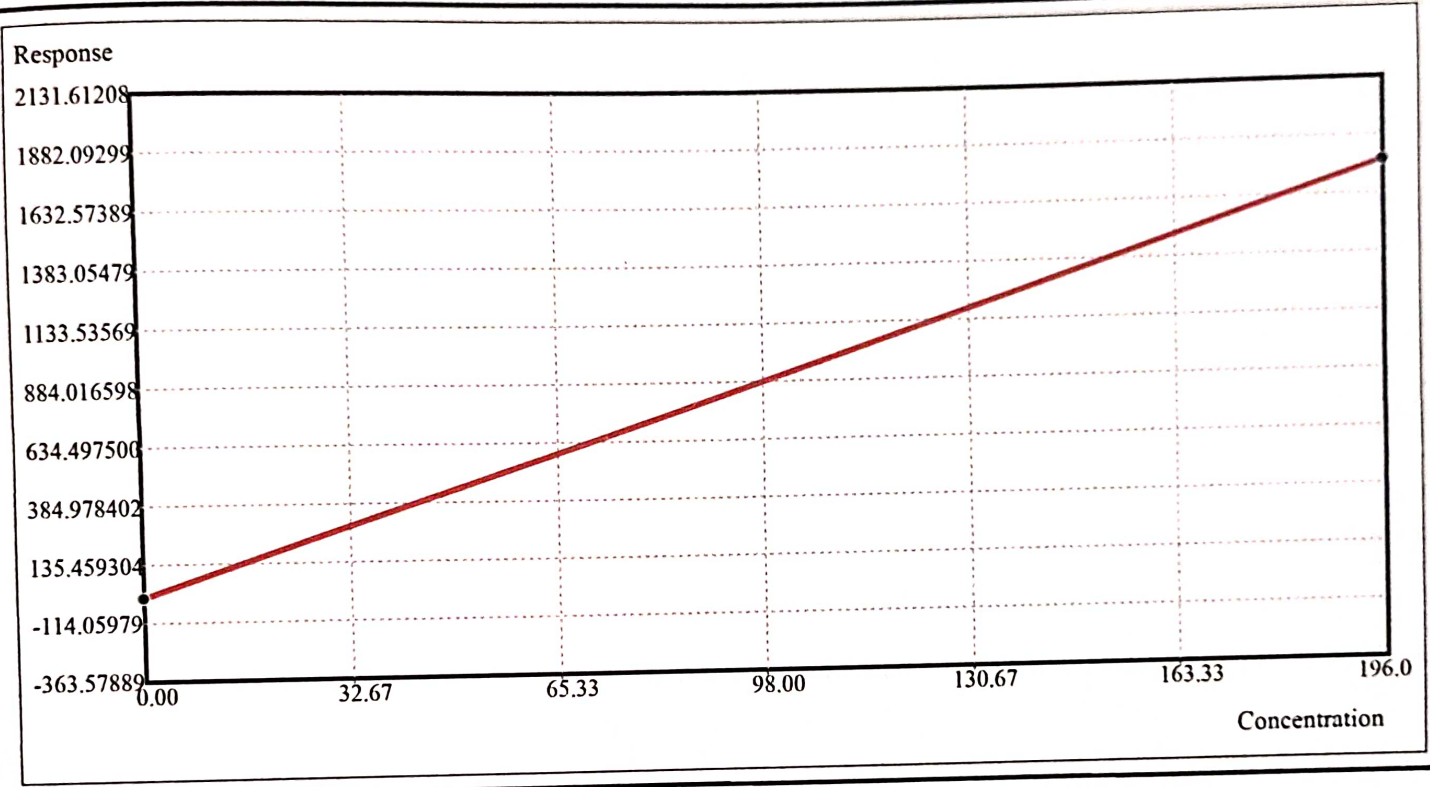
Performed By :- *[Signature]*

Checked By :- *[Signature]*

Calibration Report

Chemistry:	GLU-KIN	Math Model:	Two-Point Linear
Unit:	mg/dL	Replicates:	1
Rgt Type	Lot No.	Cal Date/Time:	30/03/2023 11:47:23 AM
	Serial No.	Rgt Type	Lot No.
			Serial No.

R1



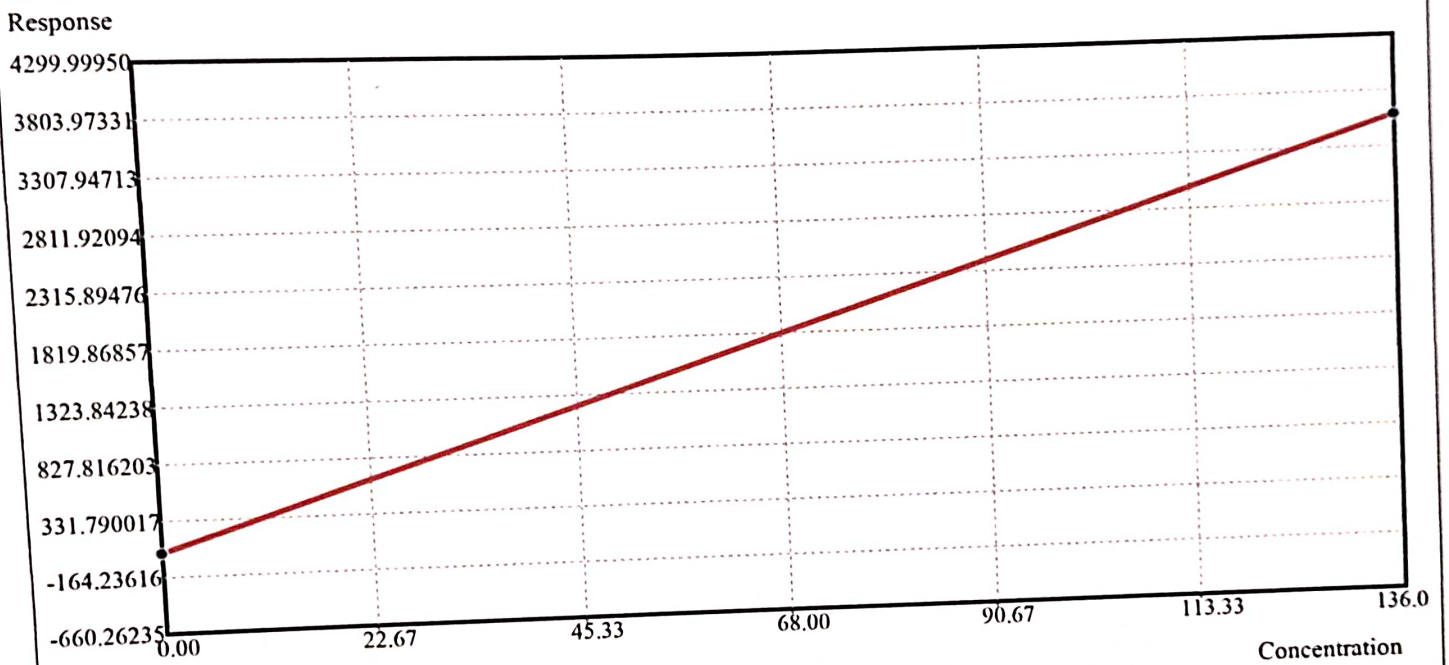
Calibration Data			Calibration Parameter				
Calibrator	Conc	Resp	Lot No.	Parameter	Value	Parameter	Value
BLANK-8	0.00	-7.1		R0	-7.1230		
MINDRAYCAL	196.00	1775.2	150122009	K	0.1100		

Performed By: *Me*

Checked By: *[Signature]*

Calibration Report

Chemistry:	LDL-C	Math Model:	Two-Point Linear		
Unit:	mg/dL	Replicates:	1	Cal Date/Time:	20/03/2023 11:33:01 AM
Rgt Type	Lot No.	Serial No.	Rgt Type	Lot No.	Serial No.
R1			R2		



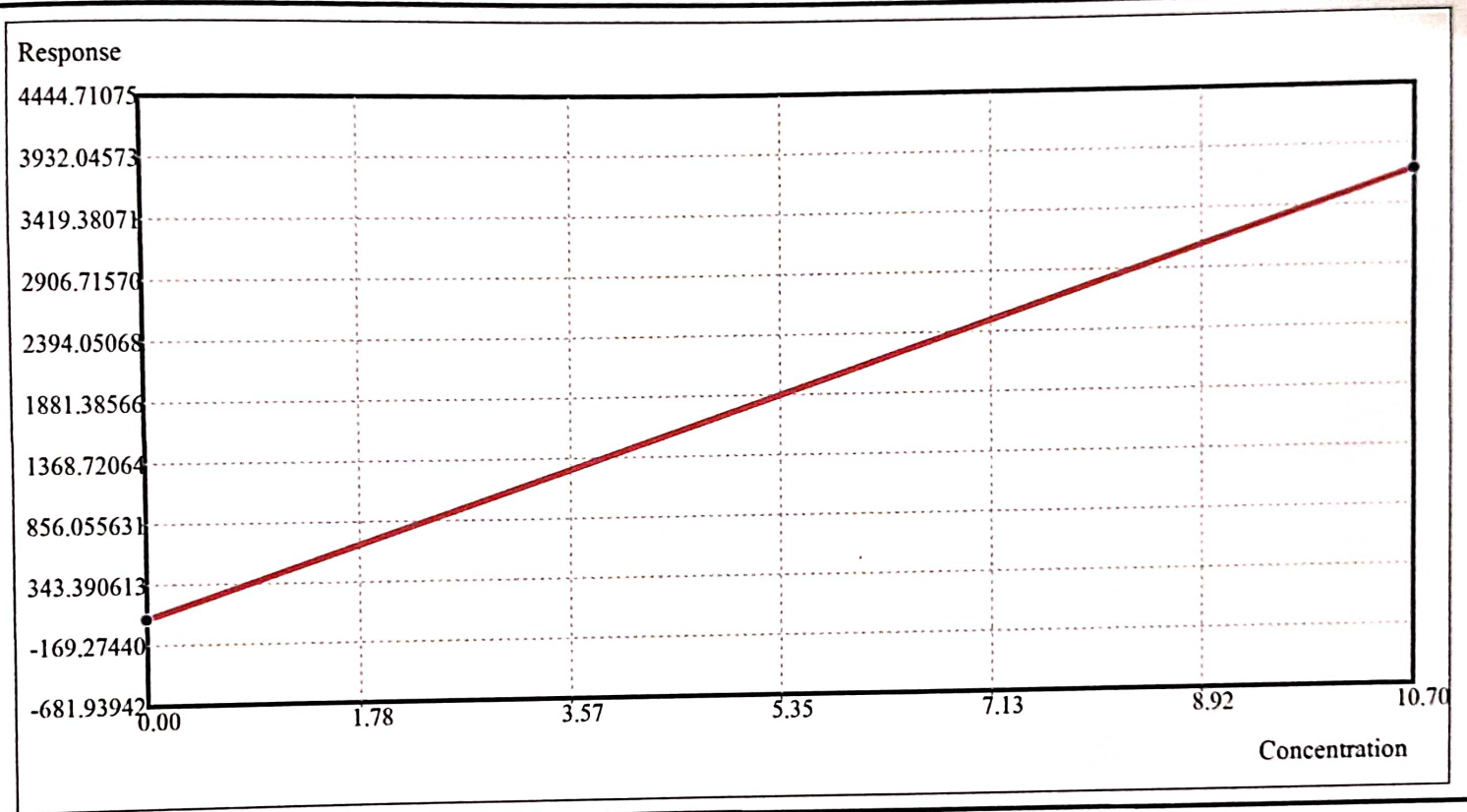
Calibration Data				Calibration Parameter	
Calibrator	Conc	Resp	Lot No.	Parameter	Value
BLANK-8	0.00	48.3		R0	48.3465
LIPID CAL.	136.00	3591.4	150417007	K	0.0384

Performed By: *(Signature)* Checked By: *(Signature)*

Calibration Report

Chemistry:	Ca	Math Model:	Two-Point Linear
Unit:	mg/dL	Replicates:	1
		Cal Date/Time:	16/02/2023 10:14:14 AM
Rgt Type	Lot No.	Serial No.	
		Rgt Type	Lot No.
			Serial No.

R1



Calibration Data			Calibration Parameter				
Calibrator	Conc	Resp	Lot No.	Parameter	Value	Parameter	Value
BLANK-8	0.00	50.4		R0	50.4392		
MINDRAYCAL	10.70	3712.3	150122009	K	0.0029		

Performed By: *Me*

Checked By: *[Signature]*