


<b>Individual Report</b>		<b>QCMD 2021 SARS-CoV-2 EQA Programme</b>					
<b>Catalogue Code:</b> QAV204215	<b>Ref Code:</b> SCV2_21	<b>Challenge:</b> C1A	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 423784	<b>Report UID:</b> 2677/423784/3275	<b>Laboratory</b> CZ023	

### Intended Results / Panel Composition

Sample Code	Sample Content	Matrix	Sample Relationships <sup>[1]</sup>	Detection Frequency <sup>[2]</sup>	Sample Status <sup>[3]</sup>	Percentage Correct (All) <sup>[4]</sup>	
						(%)	(n)
SCV2_21C1A-01	SARS-CoV-2	Transport Medium	4.10 dPCR Log10 Copies/ml (DS1_1)	Frequently Detected	CORE	99.6	951
SCV2_21C1A-02	SARS-CoV-2	Transport Medium	2.94 dPCR Log10 Copies/ml (D1, DS1_3)	Frequently Detected	CORE	97.1	951
SCV2_21C1A-03	Coronavirus 229E	Transport Medium		Negative	CORE	96.4	951
SCV2_21C1A-04	SARS-CoV-2	Transport Medium	3.09 dPCR Log10 Copies/ml (DS1_2)	Frequently Detected	CORE	98.0	951
SCV2_21C1A-05	SARS-CoV-2	Transport Medium	2.94 dPCR Log10 Copies/ml (D1, DS1_3)	Frequently Detected	CORE	97.1	951

[1] **Sample Relationships:** Indicates the relationships of the samples within this challenge. The highest titre member of dilution series DS1 is indicated by DS1\_1 and further members of the series as DS1\_2, DS1\_3 etc. in order of reducing titre. Additional dilution series are indicated by DS2 (e.g. DS2\_1, DS2\_2 etc.), DS3 (e.g. DS3\_1, DS3\_2 etc.). If one duplicate pair is present this is indicated by 'D1'. Further duplicate pairs are indicated by 'D2', 'D3' etc.

[2] **Detection Frequency:** To aid qualitative analysis each panel member is assigned a frequency of detection. This is based on the peer group consensus of all qualitative results returned from participants within the EQA challenge / distribution.

[3] **Sample Status:** EQA samples are defined as "CORE" or "EDUCATIONAL". Core proficiency samples are reviewed by the QCMD Scientific Expert(s). This is on the basis of scientific information, clinical relevance, current literature and, where appropriate, professional clinical guidelines. Participating laboratories are expected to report core proficiency samples correctly within the EQA challenge / distribution.

[4] **Percentage Correct (All):** Percentage of datasets (%) reporting the correct qualitative result and the total number of datasets (n) reported for each panel member.

*For further details please refer to the current participant manual.*

[1] **Sample Relationships:** Includes dPCR Log10 Copies/ml, the value obtained using a digital droplet PCR assay (modified from Eurosurveillance Jan 2020 Corman et al).

**Please note:** The values provided are for reference only. The values obtained by individual participating laboratories will vary from the dPCR values provided. This is because quantitation is dependent on the molecular workflow each laboratory uses (i.e. nucleic acid extraction and molecular platform / assay) as well as the standards or reference material used to calibrate the molecular workflow. In the absence of an International Standard or Certified Reference Material (CRM), QCMD uses Internal Reference Materials (IRMs) with values established using a dPCR reference assay in order to support the consistency and traceability of the EQA materials. This also helps aid the comparison of results across laboratories.


### Your Summary Results

EQA Assessment Group <sup>[1]</sup>

GeneProof SARS-CoV-2

Core Panel Detection (Qualitative) Score <sup>[2]</sup>

0

<b>Individual Report</b>		<b>QCMD 2021 SARS-CoV-2 EQA Programme</b>				 QCMD Quality Control for Molecular Diagnostics	
<b>Catalogue Code:</b> QAV204215	<b>Ref Code:</b> SCV2_21	<b>Challenge:</b> C1A	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 423784	<b>Report UID:</b> 2677/423784/3275	<b>Laboratory</b> CZ023	

### Core Panel Members Results

Sample Code	Qualitative Results			Your Quantitative Data (for information only) <sup>[3]</sup>		
	Percentage Correct (All) <sup>[4]</sup>	Your Result <sup>[5]</sup>	Detection Score <sup>[6]</sup>	Reported Value	Unitage	Cycle Threshold
SCV2_21C1A-01	99.6	Positive	0		N/A	27.18
SCV2_21C1A-02	97.1	Positive	0		N/A	33.14
SCV2_21C1A-03	96.4	Negative	0		N/A	-
SCV2_21C1A-04	98.0	Positive	0		N/A	31.22
SCV2_21C1A-05	97.1	Positive	0		N/A	33.25

[1] **EQA Assessment Group:** To aid data analysis, participant results are grouped according to the molecular amplification/detection method specified within their molecular workflow for this challenge / distribution. For further details refer to the *Additional Information: Individual Panel Member Analysis* section of this report.

[2] **Core Panel Detection (Qualitative) Score:** An overall core panel detection score provided per challenge / distribution.

[3] **Quantitative Data (for information only):** This is the quantitative value, unitage and cycle threshold you provided when you submitted your results. For qualitative programmes this information is not used as part of your formal EQA assessment.

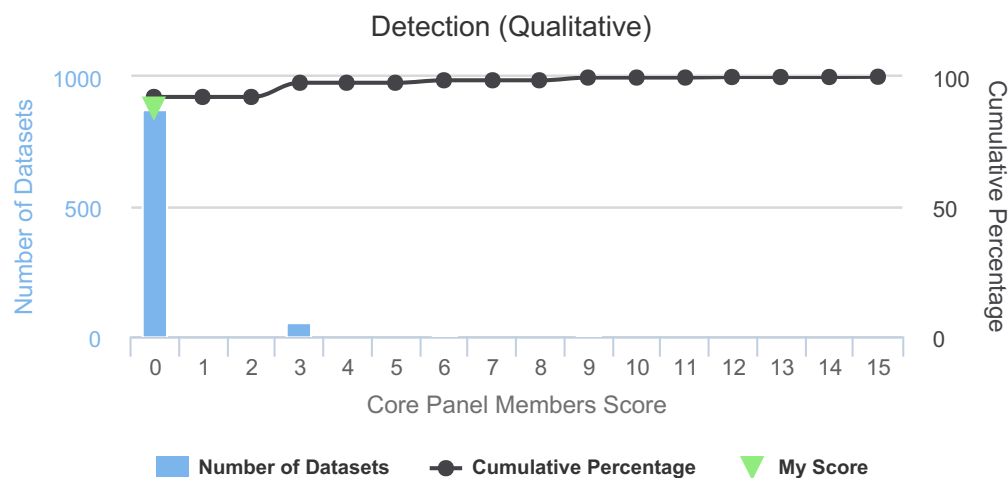
[4] **Percentage Correct (All):** Percentage of datasets (%) reporting the correct qualitative results for each panel member.


[5] **Your Result:** The qualitative result you reported for each sample within this EQA challenge / distribution.

[6] **Detection Score:** Your detection (qualitative) scores are based on the assigned detection frequency of each panel members, where 0 (zero) is "highly satisfactory" and 3 (three) is "highly unsatisfactory". Scores are provided for individual panel members.

**For further details please refer to the current participant manual.**

### Core Panel Member Score Breakdown






<b>Individual Report</b>		<b>QCMD 2021 SARS-CoV-2 EQA Programme</b>			 <small>Quality Control for Molecular Diagnostics</small>	
<b>Catalogue Code:</b> QAV204215	<b>Ref Code:</b> SCV2_21	<b>Challenge:</b> C1A	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 423784	<b>Report UID:</b> 2677/423784/3275	<b>Laboratory</b> CZ023

**Core Panel Member Score Breakdown - Detection:** This figure gives you a breakdown of the qualitative detection scores for all qualitative datasets returned within this EQA challenge / distribution independent of the EQA assessment group. Panel detection scores are generated from only those panel members that are defined as "CORE".

*For further details please refer to the current participant manual.*

## My Workflow Details

The details of the workflow(s) used to submit your results for this challenge.


<b>Name</b>	SARS-CoV-2 Screening PCR Kit (v3)
<b>Description</b>	
<b>Targets</b>	 coronavirus
<b>Assays</b>	 <b>Extraction - Manual Extraction Process</b> <ul style="list-style-type: none"> <li>● Commercial <ul style="list-style-type: none"> <li>○ Kit Manufacturer: <i>GeneProof</i></li> <li>○ Kit Type: <i>PathogenFree RNA Isolation Kit</i></li> </ul> </li> </ul>  <b>Amplification - GeneProof - croBEE Real-Time PCR System</b> <ul style="list-style-type: none"> <li>● Commercial <ul style="list-style-type: none"> <li>○ Kit Manufacturer: <i>GeneProof</i></li> <li>○ Kit Type: <i>SARS-CoV-2 Screening PCR Kit</i></li> <li>○ Kit Version: <i>GP</i></li> </ul> </li> </ul>

## Further Programme Details

Number of Participants	581
Number of Countries	51
Number of Respondents	530
Number of Datasets Submitted	951
Qualitative Results Returned	951 (100.0%)

## EQA Programme Aims


To assess the proficiency of laboratories in the detection of the new variant SARS-CoV-2 coronavirus. To assess the proficiency of laboratories in the differentiation of different coronavirus genotypes.

<b>Individual Report</b>		<b>QCMD 2021 SARS-CoV-2 EQA Programme</b>				
<b>Catalogue Code:</b> QAV204215	<b>Ref Code:</b> SCV2_21	<b>Challenge:</b> C1A	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 423784	<b>Report UID:</b> 2677/423784/3275	<b>Laboratory</b> CZ023

### Feedback and Enquiries

Participants are encouraged to read the QCMD Participants' Manual, which can be downloaded from the QCMD website.

Any enquiries should be submitted through the 'Contact Us' form that you can find in the 'Help' section of your QCMD (ITEMS) Participant Profile Area.

<b>Individual Report</b>		<b>QCMD 2021 SARS-CoV-2 EQA Programme</b>				 <small>Quality Control for Molecular Diagnostics</small>	
<b>Catalogue Code:</b> QAV204215	<b>Ref Code:</b> SCV2_21	<b>Challenge:</b> C1A	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 423784	<b>Report UID:</b> 2677/423784/3275	<b>Laboratory</b> CZ023	

Panel member analysis is separated into CORE samples followed by EDUCATIONAL samples.

### Additional Core Samples Information

The following section has been categorised as shown below:

Core ► Qualitative

### Individual Panel Member Analysis (Qualitative)

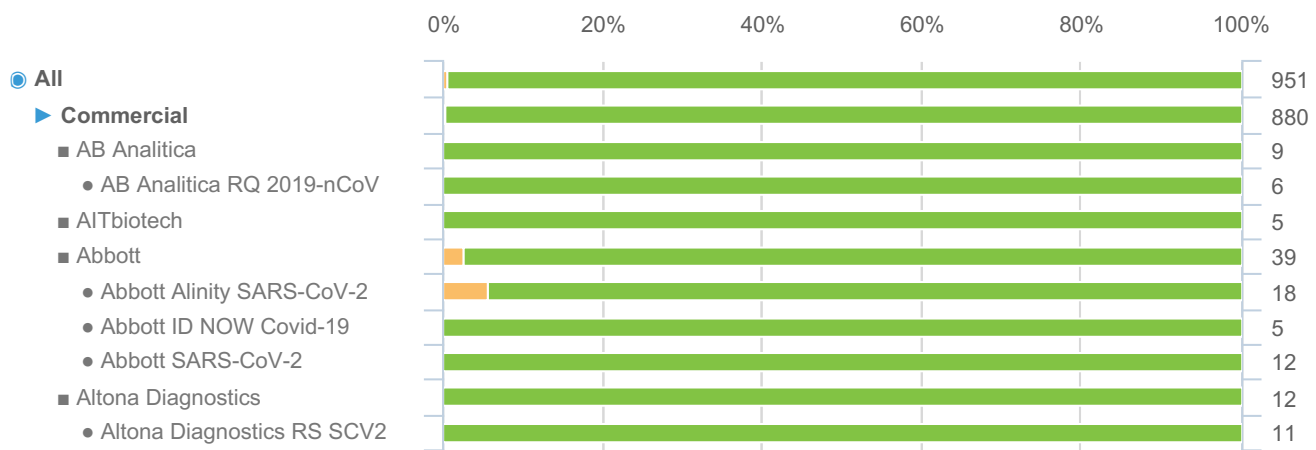
Qualitative analysis for each panel member is provided in relation to your EQA assessment group. EQA assessment groups are established using the molecular workflow information reported by all participants within this EQA challenge / distribution. The principal level of assessment is at the individual method level which is defined based on your reported “amplification/detection method” and other laboratories using the same or similar amplification/detection methods.

To allow meaningful assessment at the individual method level the EQA assessment group must consist of 5 or more datasets. If there are not sufficient datasets at the individual method level then your results will be included within a higher EQA assessment group based on whether it is a commercial or in house technology/method. The highest level assessment grouping is “All” participant reported qualitative results.

A breakdown of qualitative results reported by participants on each of the panel members within this EQA challenge / distribution is provided below. You can compare your results to those within your EQA assessment group and those obtained within other EQA assessment groups or to the overall consensus for each sample within this EQA challenge / distribution.

### SCV2\_21C1A-01 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
SCV2_21C1A-01	SARS-CoV-2	Transport Medium	4.10 dPCR Log10 Copies/ml (DS1_1)	Frequently Detected	CORE	99.6	951

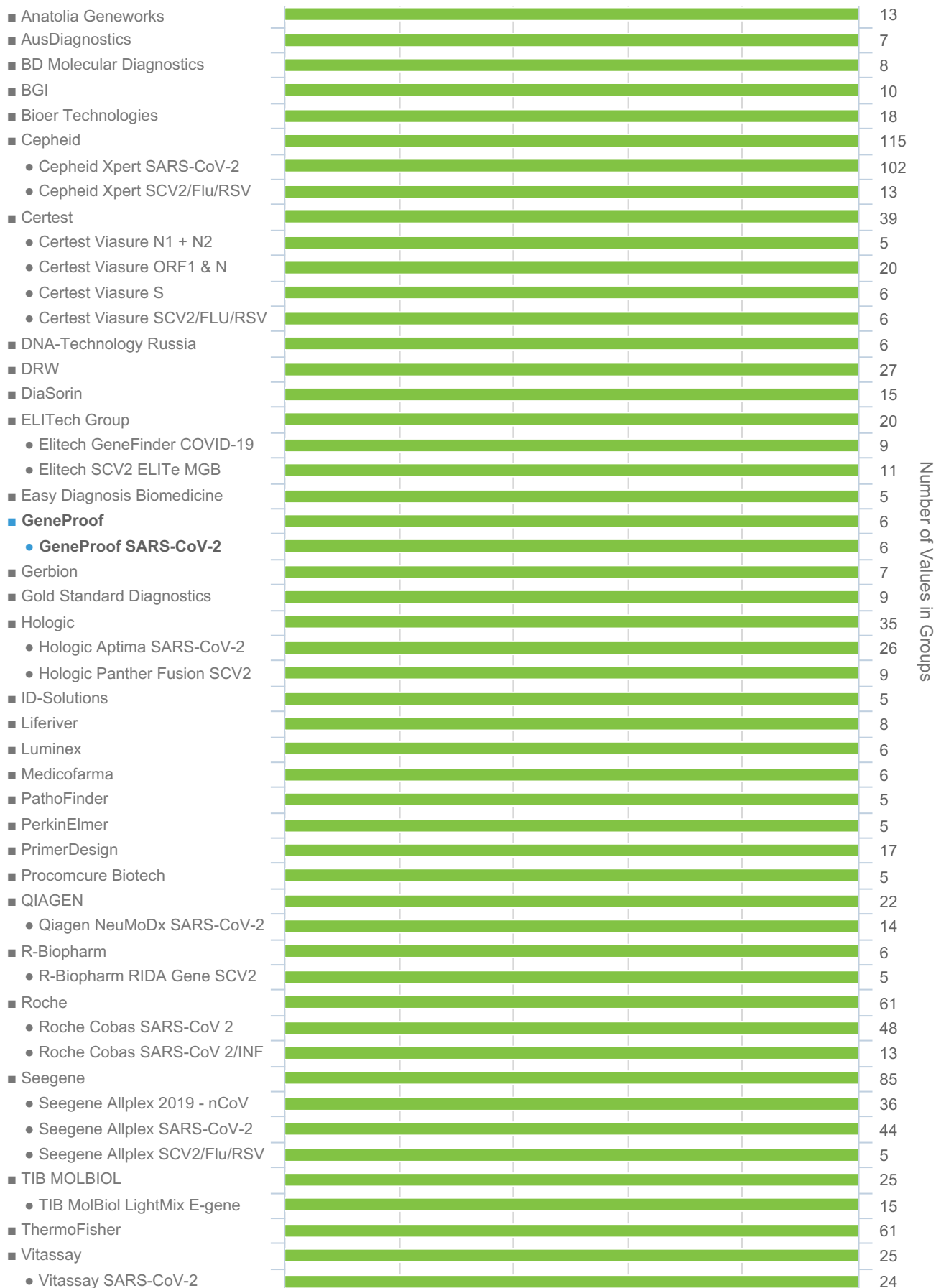


# Individual Report

# QCMD 2021 SARS-CoV-2 EQA Programme



<b>Catalogue Code:</b> QAV204215	<b>Ref Code:</b> SCV2_21	<b>Challenge:</b> C1A	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 423784	<b>Report UID:</b> 2677/423784/3275	<b>Laboratory</b> CZ023
-------------------------------------	-----------------------------	--------------------------	--------------------------------------	---------------------------	--	----------------------------



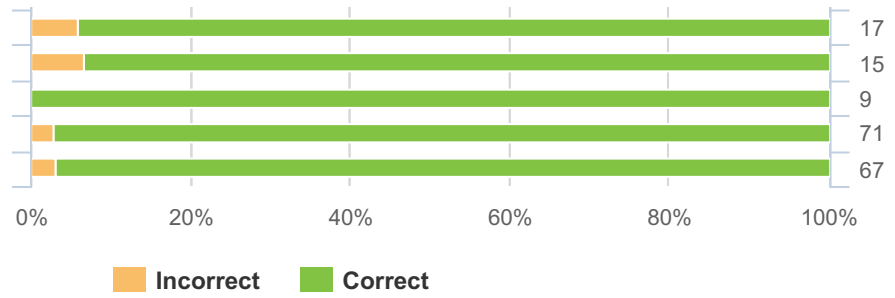
# Individual Report

# QCMD 2021 SARS-CoV-2 EQA Programme



<b>Catalogue Code:</b> QAV204215	<b>Ref Code:</b> SCV2_21	<b>Challenge:</b> C1A	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 423784	<b>Report UID:</b> 2677/423784/3275	<b>Laboratory:</b> CZ023
-------------------------------------	-----------------------------	--------------------------	--------------------------------------	---------------------------	--	-----------------------------

- bioMerieux
  - BioFire FilmArray RP
- fast-track DIAGNOSTICS
- ▶ In-House
  - Real-time In-House PCR



# Individual Report

# QCMD 2021 SARS-CoV-2 EQA Programme



Catalogue Code:	Ref Code:	Challenge:	Analysis Type:	Dataset:	Report UID:	Laboratory
QAV204215	SCV2_21	C1A	Qualitative	423784	2677/423784/3275	CZ023

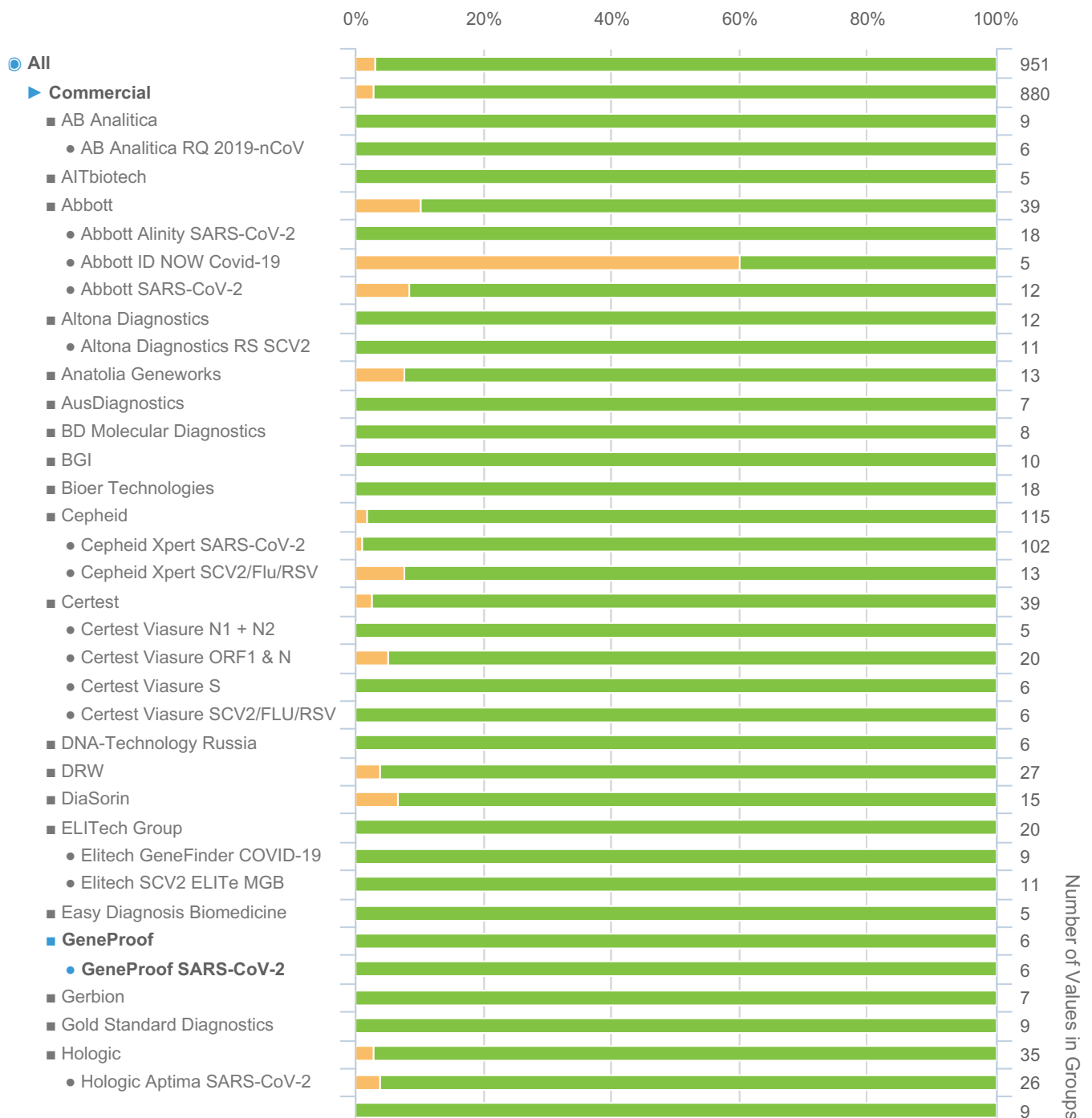
**Groups below n=5:** 3CR Bioscience (n=1), 3CR Bioscience - 3CR Bioscience ProbeSure COVID-19 (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), AB Analytica - AB Analytica RQ SARS-CoV-2 (n=1), ADEMTECH (n=1), ADEMTECH - ADEMTECH ViroGENIE SARS-CoV-2 (n=1), Abbott - Abbott Alinity M Resp 4 Plex (n=4), Agena Bioscience (n=1), Agena Bioscience - Agena Bioscience SARS-CoV-2 (n=1), Altona Diagnostics - Altona Diagnostics AS SCV2 (n=1), AmpliSens (n=1), AmpliSens - AmpliSens CoV-Bat\_FRT (n=1), Astra Biotech (n=2), Astra Biotech - Astra Biotech SARS-CoV-2 (n=2), AusDiagnostics - AusDiagnostics Respiratory Pathogens (n=3), AusDiagnostics - AusDiagnostics Respiratory Pathogens C (n=1), AusDiagnostics - AusDiagnostics Respiratory Viruses (n=1), AusDiagnostics - AusDiagnostics SARS-CoV-2/Influenza/RSV (n=2), Bio Mol (n=1), Bio Mol - Bio Mol SARS-CoV-2 (n=1), Bio-Rad (n=2), Bio-Rad - Bio-Rad SARS-CoV-2 (n=2), BioMaxima (n=1), BioMaxima - BioMaxima SARS-Cov-2 (n=1), Biocartis (n=1), Biocartis - Biocartis Idylla SARS-CoV-2 (n=1), Bioeksen (n=1), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=1), Bioline (n=1), Bioline - Bioline SensiFast (n=1), Biomeme (n=1), Biomeme - Biomeme SARS-CoV-2 (n=1), CDC (n=2), CDC - CDC SARS-CoV-2 (n=2), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=2), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Co-Diagnostics Inc (n=3), Co-Diagnostics Inc - Co-Diagnostics Inc Logix Smart (n=3), Coyote Bioscience (n=1), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=1), Credo Diagnostics Biomedical (n=2), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=2), DAAN GENE (n=1), DAAN GENE - DAAN Gene Covid-19 (n=1), Diagenode (n=1), Diagenode - Diagenode Real-Time PCR (n=1), EUROIMMUN (n=4), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=4), Eurobio Scientific (n=3), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=3), GenMark Dx (n=4), GenMark Dx - GenMark DX ePlex (n=4), GeneMe (n=1), GeneMe - GeneMe CoVi19 (n=1), Genematrix (n=1), Genematrix - Genematrix NeoPlex (n=1), Generon (n=1), Generon - Generon VetFinder (n=1), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gerbion - Gerbion respiraSC2 (n=2), Gerbion - Gerbion respiraSC2-FluA/B (n=1), Gerbion - Gerbion respiraScreen 1 (n=1), Gerbion - Gerbion respiraScreen 2 (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=2), Hain Lifescience (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 plus (n=1), Hema Diagnostic Systems (n=1), Hema Diagnostic Systems - Hema COVID-19 (n=1), HybriBio Limited (n=1), HybriBio Limited - HybriBio Real-Time PCR Kit (n=1), Immundiagnostik (n=1), Immundiagnostik - Immundiagnostik MutaPLEX (n=1), Ingenetix (n=1), Ingenetix - ViroReal SARS-CoV-2 (n=1), Innocreate Bioscience (n=1), Innocreate Bioscience - Innocreate Bioscience SARS-CoV-2 (n=1), Karwa Enterprises Pvt. Ltd. (n=1), Karwa Enterprises Pvt. Ltd. - Karwa Enterprises SARS-CoV-2 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), Labsystems Diagnostics (n=4), Labsystems Diagnostics - Labsystems Diagnostics Covid-19 (n=4), Life Real (n=1), Life Real - Life Real COVID-19 (n=1), Luminex - Luminex ARIES SCV2 (n=4), Luminex - Luminex NxTAG RPP + SCV2 (n=2), Menarini Diagnostics (n=1), Menarini Diagnostics - Menarini SARS-CoV-2 (n=1), MiRXES (n=1), MiRXES - MiRXES Fortitude Covid-19 (n=1), Mikrogen (n=2), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=1), Mikrogen - Mikrogen ampliCube FLU/SCV2 (n=1), Mobidiag (n=4), Mobidiag - Mobidiag Amplidiag COVID-19 (n=2), Mobidiag - Mobidiag Novodiag COVID-19 (n=2), MobioSense Corp. (n=1), MobioSense Corp. - MobioSense Covid-19 (n=1), Mylab Discovery solutions (n=1), Mylab Discovery solutions - Mylab PathoDetect COVID-19 (n=1), Nonacus (n=3), Nonacus - Nonacus VirPath SARS-CoV-2 (n=3), Nuclear Laser Medicine (n=1), Nuclear Laser Medicine - Nuclear Laser SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PentaBase (n=3), PentaBase - PentaBase CoviDetect (n=3), Promega (n=1), Promega - Promega SARS-CoV-2 (n=1), QIAGEN - Qiagen QIAprep & amp (n=3), QIAGEN - Qiagen QIAstat-Dx Respiratory 2019-nCoV (n=3), QIAGEN - Qiagen QIAstat-Dx Respiratory SCV2 (n=2), Quantabio (n=4), Quantabio - Quantabio Script One-Step Covid-19 (n=4), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), RTA Laboratories (n=1), RTA Laboratories - RTA Laboratories DIAGNOVITAL SARS-CoV-2 (n=1), Randox (n=4), Randox - Randox COVID-19 qPCR (n=3), Randox - Randox Extended Coronavirus Array (n=1), Sacace (n=1), Sacace - Sacace SARS-CoV-2 (n=1), Sansure Biotech (n=4), Sansure Biotech - Sansure Biotech nCoV PCR Kit (n=4), Savyon Diagnostics (n=1), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 Plus (n=1), Serosep (n=4), Serosep - Serosep RespiBio SARS-CoV-2 (n=4), Shanghai Fosun Pharmaceutical (n=2), Shanghai Fosun Pharmaceutical - Shanghai Fosun Real Time PCR (n=2), Shanghai Kehua bio engineering Co., Ltd (n=3), Shanghai Kehua bio engineering Co., Ltd - Shanghai KHB SARS-CoV-2 (n=3), SolGent (n=2), SolGent - SolGent DiaPlexQ-nCoV (n=2), TIB MOLBIOL - TIB MOLBIOL VirSNIIP (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/N-gene (n=3), TIB MOLBIOL - TIB MolBiol LightMix E/N/RdRP (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/RdRP (n=3), TIB MOLBIOL - TIB MolBiol LightMix RdRP (n=2), TK Biotech (n=2), TK Biotech - TK Biotech SARS-CoV-2 (n=2), Vazyme (n=1), Vazyme - Vazyme SARS-CoV-2 (n=1), Vitassay - Vitassay SCV2/Flu/RSV (n=1), YouSeq (n=2), YouSeq - YouSeq SARS CoV-2 (n=2), Yourgene Health (n=3), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=3), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=2), dnature (n=1), dnature - dnature SARS-CoV-2 (n=1), In-House - Conventional In-House PCR (n=4)

**Groups Rolled Up:** AITbiotech - AITbiotech abTES COVID-19 (n=5), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=13), BD Molecular Diagnostics - BD SARS-CoV-2 (n=8), BGI - BGI Real Time PCR (n=10), Bioer Technologies - Bioer SARS-CoV-2 (n=18), DNA-Technology Russia - DNA-Technology Covid-19 (n=6), DRW - DRW SAMBA II SARS-CoV-2 (n=27), DiaSorin - DiaSorin Simplexa COVID-19 (n=15), Easy Diagnosis Biomedicine - EasyDiagnosis SARS-CoV-2 (n=5), Gold Standard Diagnostics - GSD NovaPrime SARS-CoV-2 (n=9), ID-Solutions - ID SARS CoV-2 (n=5), Liferiver - Liferiver 2019-nCoV (n=8), Medicofarma - Medicofarma MediPAN COVID SARS-CoV-2 (n=6), PathoFinder - PathoFinder RealAccurate SARS-CoV-2 (n=5), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=5), PrimerDesign - PrimerDesign Genesis (n=17), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=5), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=61), fast-track DIAGNOSTICS - FTD SARS-CoV-2 (n=9)



**SCV2\_21C1A-02 - Qualitative Results Breakdown**

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
SCV2_21C1A-02	SARS-CoV-2	Transport Medium	2.94 dPCR Log10 Copies/ml (D1, DS1_3)	Frequently Detected	CORE	97.1	951

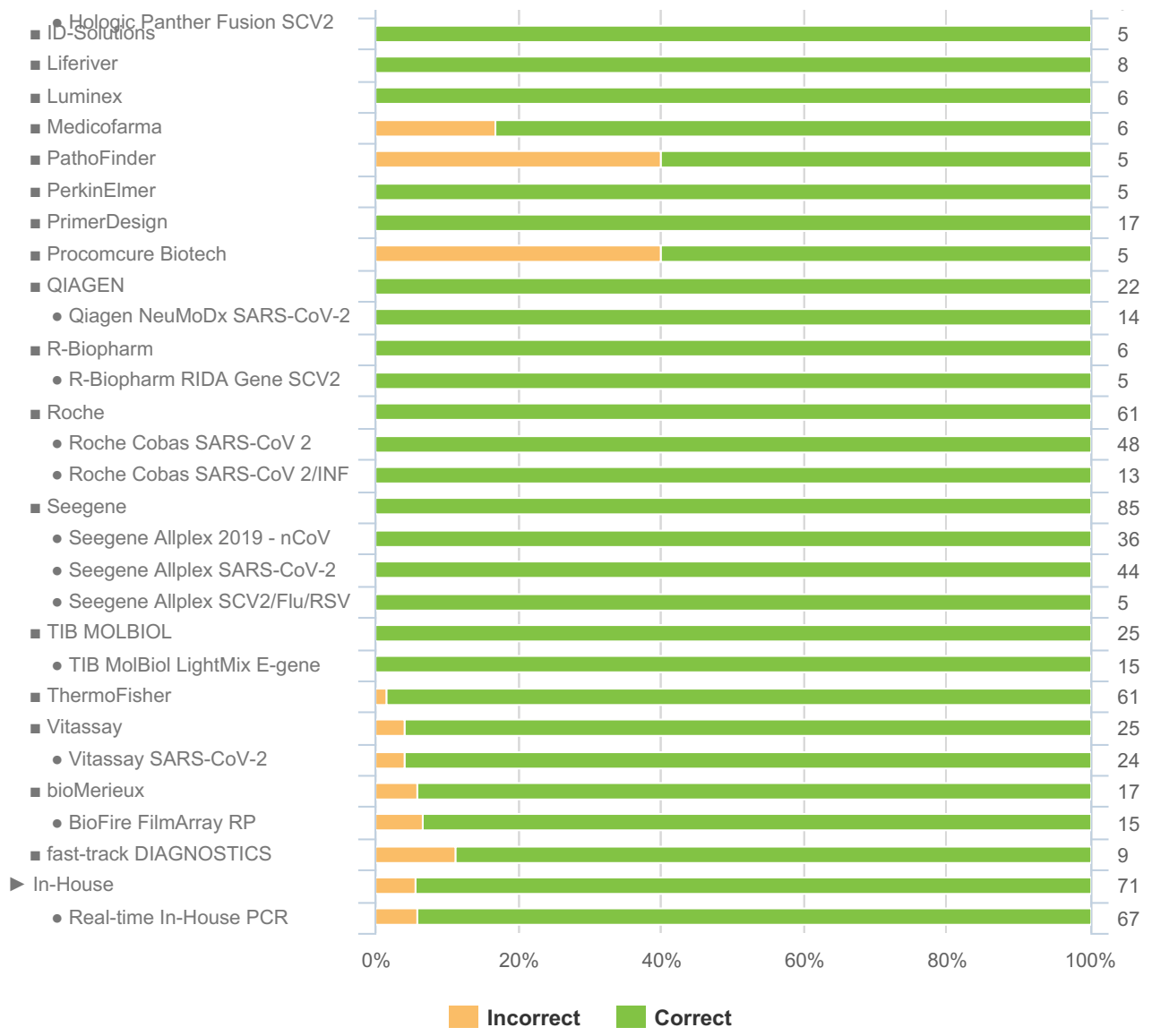


# Individual Report

# QCMD 2021 SARS-CoV-2 EQA Programme



<b>Catalogue Code:</b> QAV204215	<b>Ref Code:</b> SCV2_21	<b>Challenge:</b> C1A	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 423784	<b>Report UID:</b> 2677/423784/3275	<b>Laboratory:</b> CZ023
-------------------------------------	-----------------------------	--------------------------	--------------------------------------	---------------------------	--	-----------------------------



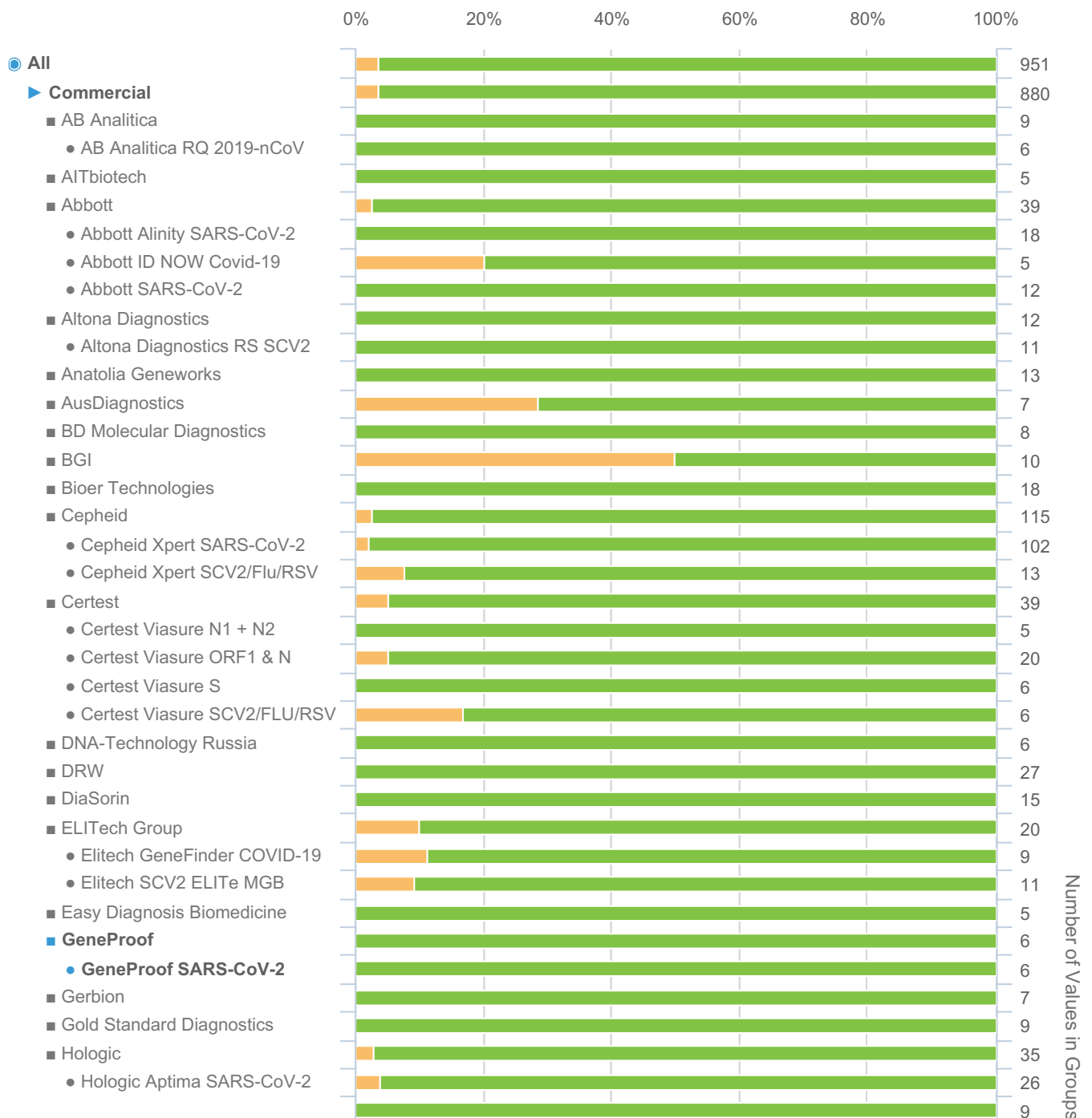
Catalogue Code:	Ref Code:	Challenge:	Analysis Type:	Dataset:	Report UID:	Laboratory
QAV204215	SCV2_21	C1A	Qualitative	423784	2677/423784/3275	CZ023

**Groups below n=5:** 3CR Bioscience (n=1), 3CR Bioscience - 3CR Bioscience ProbeSure COVID-19 (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), AB Analytica - AB Analytica RQ SARS-CoV-2 (n=1), ADEMTECH (n=1), ADEMTECH - ADEMTECH ViroGENIE SARS-CoV-2 (n=1), Abbott - Abbott Alinity M Resp 4 Plex (n=4), Agena Bioscience (n=1), Agena Bioscience - Agena Bioscience SARS-CoV-2 (n=1), Altona Diagnostics - Altona Diagnostics AS SCV2 (n=1), AmpliSens (n=1), AmpliSens - AmpliSens CoV-Bat\_FRT (n=1), Astra Biotech (n=2), Astra Biotech - Astra Biotech SARS-CoV-2 (n=2), AusDiagnostics - AusDiagnostics Respiratory Pathogens (n=3), AusDiagnostics - AusDiagnostics Respiratory Pathogens C (n=1), AusDiagnostics - AusDiagnostics Respiratory Viruses (n=1), AusDiagnostics - AusDiagnostics SARS-CoV-2/Influenza/RSV (n=2), Bio Mol (n=1), Bio Mol - Bio Mol SARS-CoV-2 (n=1), Bio-Rad (n=2), Bio-Rad - Bio-Rad SARS-CoV-2 (n=2), BioMaxima (n=1), BioMaxima - BioMaxima SARS-Cov-2 (n=1), Biocartis (n=1), Biocartis - Biocartis Idylla SARS-CoV-2 (n=1), Bioeksen (n=1), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=1), Bioline (n=1), Bioline - Bioline SensiFast (n=1), Biomeme (n=1), Biomeme - Biomeme SARS-CoV-2 (n=1), CDC (n=2), CDC - CDC SARS-CoV-2 (n=2), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=2), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Co-Diagnostics Inc (n=3), Co-Diagnostics Inc - Co-Diagnostics Inc Logix Smart (n=3), Coyote Bioscience (n=1), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=1), Credo Diagnostics Biomedical (n=2), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=2), DAAN GENE (n=1), DAAN GENE - DAAN Gene Covid-19 (n=1), Diagenode (n=1), Diagenode - Diagenode Real-Time PCR (n=1), EUROIMMUN (n=4), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=4), Eurobio Scientific (n=3), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=3), GenMark Dx (n=4), GenMark Dx - GenMark DX ePlex (n=4), GeneMe (n=1), GeneMe - GeneMe CoVi19 (n=1), Genematrix (n=1), Genematrix - Genematrix NeoPlex (n=1), Generon (n=1), Generon - Generon VetFinder (n=1), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gerbion - Gerbion respiraSC2 (n=2), Gerbion - Gerbion respiraSC2-FluA/B (n=1), Gerbion - Gerbion respiraScreen 1 (n=1), Gerbion - Gerbion respiraScreen 2 (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=2), Hain Lifescience (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 plus (n=1), Hema Diagnostic Systems (n=1), Hema Diagnostic Systems - Hema COVID-19 (n=1), HybriBio Limited (n=1), HybriBio Limited - HybriBio Real-Time PCR Kit (n=1), Immundiagnostik (n=1), Immundiagnostik - Immundiagnostik MutaPLEX (n=1), Ingenetix (n=1), Ingenetix - ViroReal SARS-CoV-2 (n=1), Innocreate Bioscience (n=1), Innocreate Bioscience - Innocreate Bioscience SARS-CoV-2 (n=1), Karwa Enterprises Pvt. Ltd. (n=1), Karwa Enterprises Pvt. Ltd. - Karwa Enterprises SARS-CoV-2 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), Labsystems Diagnostics (n=4), Labsystems Diagnostics - Labsystems Diagnostics Covid-19 (n=4), Life Real (n=1), Life Real - Life Real COVID-19 (n=1), Luminex - Luminex ARIES SCV2 (n=4), Luminex - Luminex NxTAG RPP + SCV2 (n=2), Menarini Diagnostics (n=1), Menarini Diagnostics - Menarini SARS-CoV-2 (n=1), MiRXES (n=1), MiRXES - MiRXES Fortitude Covid-19 (n=1), Mikrogen (n=2), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=1), Mikrogen - Mikrogen ampliCube FLU/SCV2 (n=1), Mobidiag (n=4), Mobidiag - Mobidiag Amplidiag COVID-19 (n=2), Mobidiag - Mobidiag Novodiag COVID-19 (n=2), MobioSense Corp. (n=1), MobioSense Corp. - MobioSense Covid-19 (n=1), Mylab Discovery solutions (n=1), Mylab Discovery solutions - Mylab PathoDetect COVID-19 (n=1), Nonacus (n=3), Nonacus - Nonacus VirPath SARS-CoV-2 (n=3), Nuclear Laser Medicine (n=1), Nuclear Laser Medicine - Nuclear Laser SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PentaBase (n=3), PentaBase - PentaBase CoviDetect (n=3), Promega (n=1), Promega - Promega SARS-CoV-2 (n=1), QIAGEN - Qiagen QIAprep & amp (n=3), QIAGEN - Qiagen QIAstat-Dx Respiratory 2019-nCoV (n=3), QIAGEN - Qiagen QIAstat-Dx Respiratory SCV2 (n=2), Quantabio (n=4), Quantabio - Quantabio Script One-Step Covid-19 (n=4), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), RTA Laboratories (n=1), RTA Laboratories - RTA Laboratories DIAGNOVITAL SARS-CoV-2 (n=1), Randox (n=4), Randox - Randox COVID-19 qPCR (n=3), Randox - Randox Extended Coronavirus Array (n=1), Sacace (n=1), Sacace - Sacace SARS-CoV-2 (n=1), Sansure Biotech (n=4), Sansure Biotech - Sansure Biotech nCoV PCR Kit (n=4), Savyon Diagnostics (n=1), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 Plus (n=1), Serosep (n=4), Serosep - Serosep RespiBio SARS-CoV-2 (n=4), Shanghai Fosun Pharmaceutical (n=2), Shanghai Fosun Pharmaceutical - Shanghai Fosun Real Time PCR (n=2), Shanghai Kehua bio engineering Co., Ltd (n=3), Shanghai Kehua bio engineering Co., Ltd - Shanghai KHB SARS-CoV-2 (n=3), SolGent (n=2), SolGent - SolGent DiaPlexQ-nCoV (n=2), TIB MOLBIOL - TIB MOLBIOL VirSNIp (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/N-gene (n=3), TIB MOLBIOL - TIB MolBiol LightMix E/N/RdRP (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/RdRP (n=3), TIB MOLBIOL - TIB MolBiol LightMix RdRP (n=2), TK Biotech (n=2), TK Biotech - TK Biotech SARS-CoV-2 (n=2), Vazyme (n=1), Vazyme - Vazyme SARS-CoV-2 (n=1), Vitassay - Vitassay SCV2/Flu/RSV (n=1), YouSeq (n=2), YouSeq - YouSeq SARS CoV-2 (n=2), Yourgene Health (n=3), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=3), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=2), dnature (n=1), dnature - dnature SARS-CoV-2 (n=1), In-House - Conventional In-House PCR (n=4)

**Groups Rolled Up:** AITbiotech - AITbiotech abTES COVID-19 (n=5), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=13), BD Molecular Diagnostics - BD SARS-CoV-2 (n=8), BGI - BGI Real Time PCR (n=10), Bioer Technologies - Bioer SARS-CoV-2 (n=18), DNA-Technology Russia - DNA-Technology Covid-19 (n=6), DRW - DRW SAMBA II SARS-CoV-2 (n=27), DiaSorin - DiaSorin Simplexa COVID-19 (n=15), Easy Diagnosis Biomedicine - EasyDiagnosis SARS-CoV-2 (n=5), Gold Standard Diagnostics - GSD NovaPrime SARS-CoV-2 (n=9), ID-Solutions - ID SARS CoV-2 (n=5), Liferiver - Liferiver 2019-nCoV (n=8), Medicofarma - Medicofarma MediPAN COVID SARS-CoV-2 (n=6), PathoFinder - PathoFinder RealAccurate SARS-CoV-2 (n=5), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=5), PrimerDesign - PrimerDesign Genesis (n=17), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=5), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=61), fast-track DIAGNOSTICS - FTD SARS-CoV-2 (n=9)

**SCV2\_21C1A-03 - Qualitative Results Breakdown**

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
SCV2_21C1A-03	Coronavirus 229E	Transport Medium		Negative	CORE	96.4	951

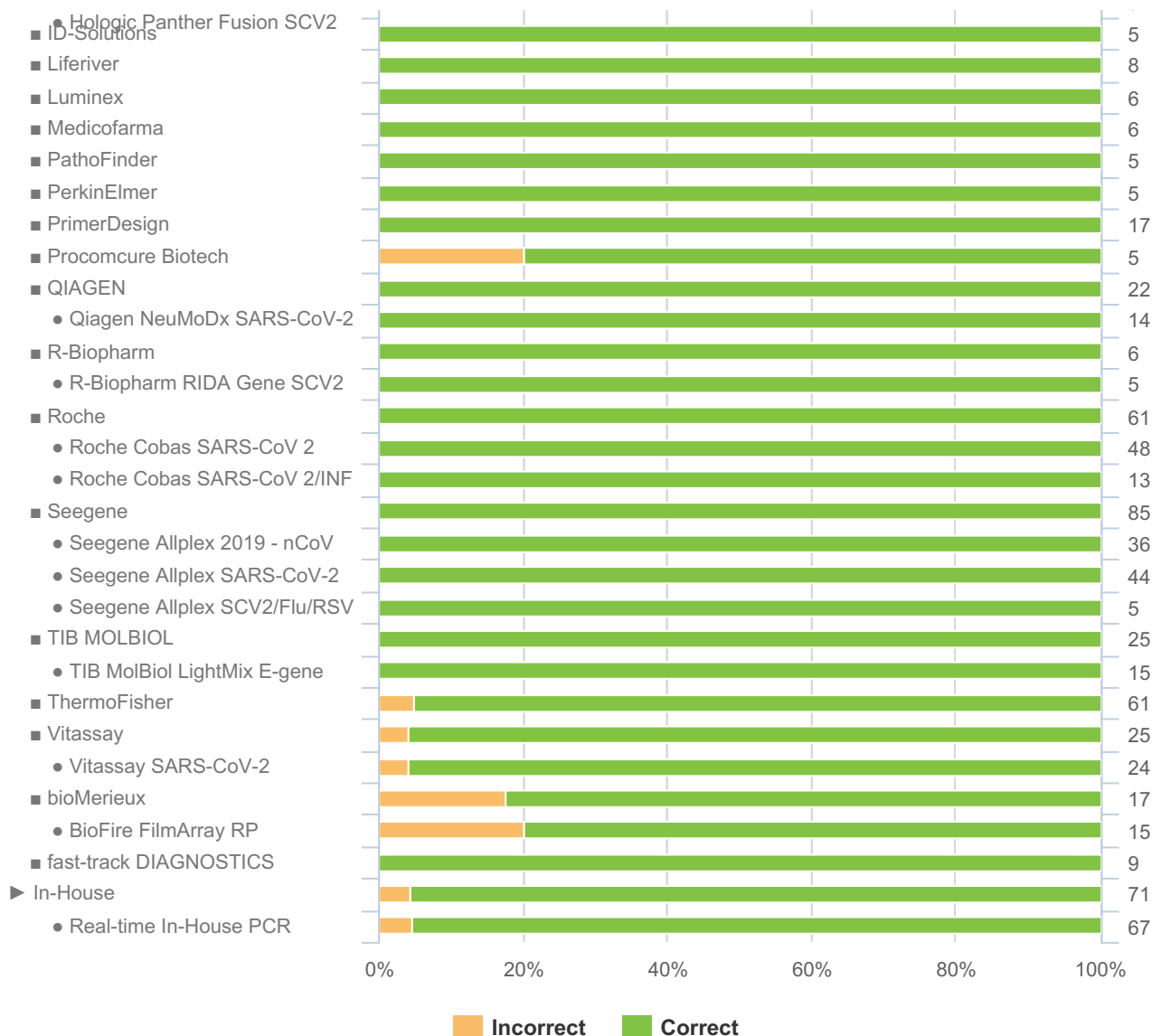


# Individual Report

# QCMD 2021 SARS-CoV-2 EQA Programme



<b>Catalogue Code:</b> QAV204215	<b>Ref Code:</b> SCV2_21	<b>Challenge:</b> C1A	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 423784	<b>Report UID:</b> 2677/423784/3275	<b>Laboratory</b> CZ023
-------------------------------------	-----------------------------	--------------------------	--------------------------------------	---------------------------	--	----------------------------



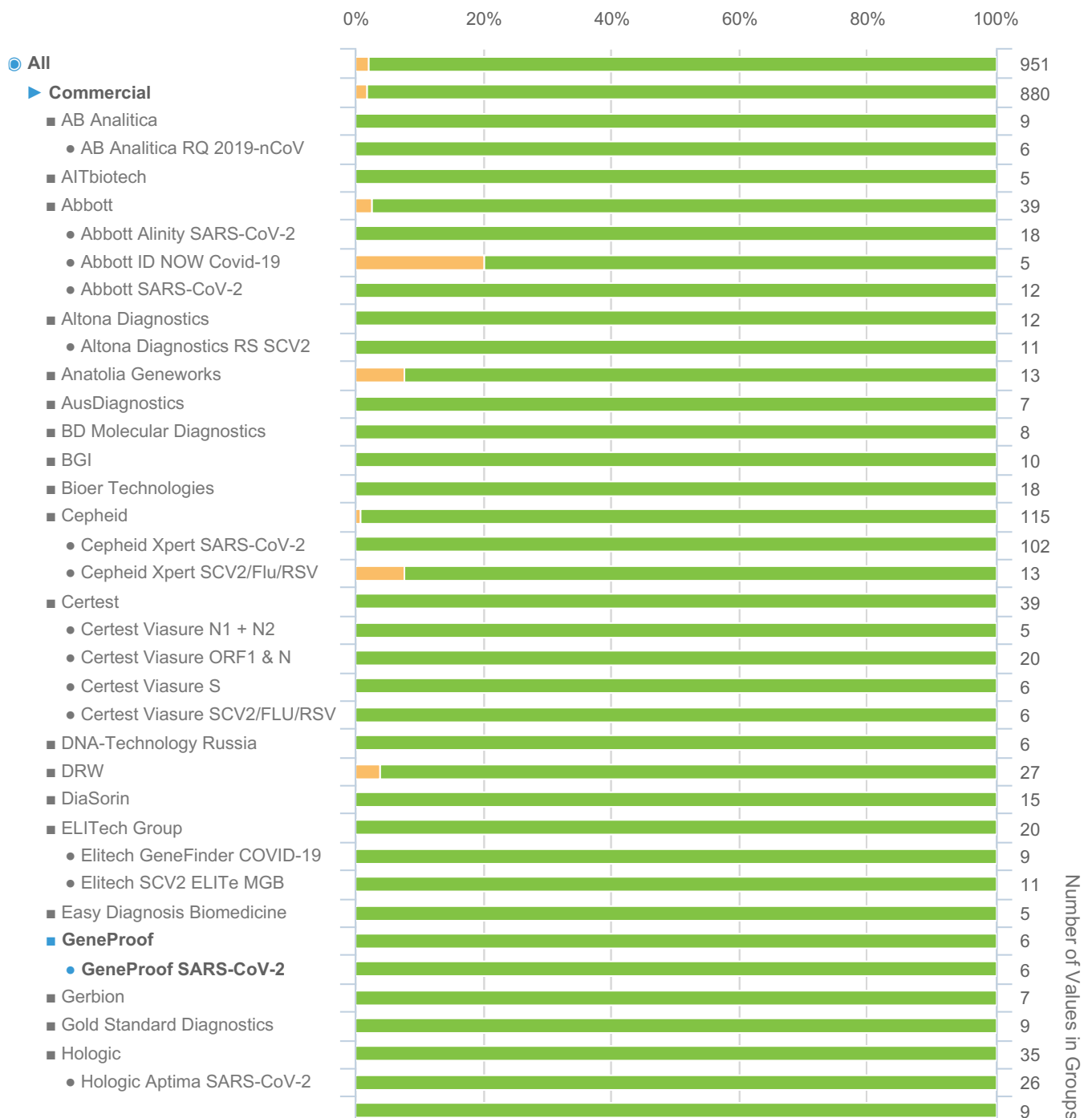
Catalogue Code:	Ref Code:	Challenge:	Analysis Type:	Dataset:	Report UID:	Laboratory
QAV204215	SCV2_21	C1A	Qualitative	423784	2677/423784/3275	CZ023

**Groups below n=5:** 3CR Bioscience (n=1), 3CR Bioscience - 3CR Bioscience ProbeSure COVID-19 (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), AB Analytica - AB Analytica RQ SARS-CoV-2 (n=1), ADEMTECH (n=1), ADEMTECH - ADEMTECH ViroGENIE SARS-CoV-2 (n=1), Abbott - Abbott Alinity M Resp 4 Plex (n=4), Agena Bioscience (n=1), Agena Bioscience - Agena Bioscience SARS-CoV-2 (n=1), Altona Diagnostics - Altona Diagnostics AS SCV2 (n=1), AmpliSens (n=1), AmpliSens - AmpliSens CoV-Bat\_FRT (n=1), Astra Biotech (n=2), Astra Biotech - Astra Biotech SARS-CoV-2 (n=2), AusDiagnostics - AusDiagnostics Respiratory Pathogens (n=3), AusDiagnostics - AusDiagnostics Respiratory Pathogens C (n=1), AusDiagnostics - AusDiagnostics Respiratory Viruses (n=1), AusDiagnostics - AusDiagnostics SARS-CoV-2/Influenza/RSV (n=2), Bio Mol (n=1), Bio Mol - Bio Mol SARS-CoV-2 (n=1), Bio-Rad (n=2), Bio-Rad - Bio-Rad SARS-CoV-2 (n=2), BioMaxima (n=1), BioMaxima - BioMaxima SARS-Cov-2 (n=1), Biocartis (n=1), Biocartis - Biocartis Idylla SARS-CoV-2 (n=1), Bioeksen (n=1), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=1), Bioline (n=1), Bioline - Bioline SensiFast (n=1), Biomeme (n=1), Biomeme - Biomeme SARS-CoV-2 (n=1), CDC (n=2), CDC - CDC SARS-CoV-2 (n=2), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=2), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Co-Diagnostics Inc (n=3), Co-Diagnostics Inc - Co-Diagnostics Inc Logix Smart (n=3), Coyote Bioscience (n=1), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=1), Credo Diagnostics Biomedical (n=2), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=2), DAAN GENE (n=1), DAAN GENE - DAAN Gene Covid-19 (n=1), Diagenode (n=1), Diagenode - Diagenode Real-Time PCR (n=1), EUROIMMUN (n=4), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=4), Eurobio Scientific (n=3), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=3), GenMark Dx (n=4), GenMark Dx - GenMark DX ePlex (n=4), GeneMe (n=1), GeneMe - GeneMe CoVi19 (n=1), Genematrix (n=1), Genematrix - Genematrix NeoPlex (n=1), Generon (n=1), Generon - Generon VetFinder (n=1), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gerbion - Gerbion respiraSC2 (n=2), Gerbion - Gerbion respiraSC2-FluA/B (n=1), Gerbion - Gerbion respiraScreen 1 (n=1), Gerbion - Gerbion respiraScreen 2 (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=2), Hain Lifescience (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 plus (n=1), Hema Diagnostic Systems (n=1), Hema Diagnostic Systems - Hema COVID-19 (n=1), HybriBio Limited (n=1), HybriBio Limited - HybriBio Real-Time PCR Kit (n=1), Immundiagnostik (n=1), Immundiagnostik - Immundiagnostik MutaPLEX (n=1), Ingenetix (n=1), Ingenetix - ViroReal SARS-CoV-2 (n=1), Innocreate Bioscience (n=1), Innocreate Bioscience - Innocreate Bioscience SARS-CoV-2 (n=1), Karwa Enterprises Pvt. Ltd. (n=1), Karwa Enterprises Pvt. Ltd. - Karwa Enterprises SARS-CoV-2 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), Labsystems Diagnostics (n=4), Labsystems Diagnostics - Labsystems Diagnostics Covid-19 (n=4), Life Real (n=1), Life Real - Life Real COVID-19 (n=1), Luminex - Luminex ARIES SCV2 (n=4), Luminex - Luminex NxTAG RPP + SCV2 (n=2), Menarini Diagnostics (n=1), Menarini Diagnostics - Menarini SARS-CoV-2 (n=1), MiRXES (n=1), MiRXES - MiRXES Fortitude Covid-19 (n=1), Mikrogen (n=2), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=1), Mikrogen - Mikrogen ampliCube FLU/SCV2 (n=1), Mobidiag (n=4), Mobidiag - Mobidiag Amplidiag COVID-19 (n=2), Mobidiag - Mobidiag Novodiag COVID-19 (n=2), MobioSense Corp. (n=1), MobioSense Corp. - MobioSense Covid-19 (n=1), Mylab Discovery solutions (n=1), Mylab Discovery solutions - Mylab PathoDetect COVID-19 (n=1), Nonacus (n=3), Nonacus - Nonacus VirPath SARS-CoV-2 (n=3), Nuclear Laser Medicine (n=1), Nuclear Laser Medicine - Nuclear Laser SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PentaBase (n=3), PentaBase - PentaBase CoviDetect (n=3), Promega (n=1), Promega - Promega SARS-CoV-2 (n=1), QIAGEN - Qiagen QIAprep & amp (n=3), QIAGEN - Qiagen QIAstat-Dx Respiratory 2019-nCoV (n=3), QIAGEN - Qiagen QIAstat-Dx Respiratory SCV2 (n=2), Quantabio (n=4), Quantabio - Quantabio Script One-Step Covid-19 (n=4), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), RTA Laboratories (n=1), RTA Laboratories - RTA Laboratories DIAGNOVITAL SARS-CoV-2 (n=1), Randox (n=4), Randox - Randox COVID-19 qPCR (n=3), Randox - Randox Extended Coronavirus Array (n=1), Sacace (n=1), Sacace - Sacace SARS-CoV-2 (n=1), Sansure Biotech (n=4), Sansure Biotech - Sansure Biotech nCoV PCR Kit (n=4), Savyon Diagnostics (n=1), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 Plus (n=1), Serosep (n=4), Serosep - Serosep RespiBio SARS-CoV-2 (n=4), Shanghai Fosun Pharmaceutical (n=2), Shanghai Fosun Pharmaceutical - Shanghai Fosun Real Time PCR (n=2), Shanghai Kehua bio engineering Co., Ltd (n=3), Shanghai Kehua bio engineering Co., Ltd - Shanghai KHB SARS-CoV-2 (n=3), SolGent (n=2), SolGent - SolGent DiaPlexQ-nCoV (n=2), TIB MOLBIOL - TIB MOLBIOL VirSNIIP (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/N-gene (n=3), TIB MOLBIOL - TIB MolBiol LightMix E/N/RdRP (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/RdRP (n=3), TIB MOLBIOL - TIB MolBiol LightMix RdRP (n=2), TK Biotech (n=2), TK Biotech - TK Biotech SARS-CoV-2 (n=2), Vazyme (n=1), Vazyme - Vazyme SARS-CoV-2 (n=1), Vitassay - Vitassay SCV2/Flu/RSV (n=1), YouSeq (n=2), YouSeq - YouSeq SARS CoV-2 (n=2), Yourgene Health (n=3), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=3), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=2), dnature (n=1), dnature - dnature SARS-CoV-2 (n=1), In-House - Conventional In-House PCR (n=4)

**Groups Rolled Up:** AITbiotech - AITbiotech abTES COVID-19 (n=5), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=13), BD Molecular Diagnostics - BD SARS-CoV-2 (n=8), BGI - BGI Real Time PCR (n=10), Bioer Technologies - Bioer SARS-CoV-2 (n=18), DNA-Technology Russia - DNA-Technology Covid-19 (n=6), DRW - DRW SAMBA II SARS-CoV-2 (n=27), DiaSorin - DiaSorin Simplexa COVID-19 (n=15), Easy Diagnosis Biomedicine - EasyDiagnosis SARS-CoV-2 (n=5), Gold Standard Diagnostics - GSD NovaPrime SARS-CoV-2 (n=9), ID-Solutions - ID SARS CoV-2 (n=5), Liferiver - Liferiver 2019-nCoV (n=8), Medicofarma - Medicofarma MediPAN COVID SARS-CoV-2 (n=6), PathoFinder - PathoFinder RealAccurate SARS-CoV-2 (n=5), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=5), PrimerDesign - PrimerDesign Genesis (n=17), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=5), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=61), fast-track DIAGNOSTICS - FTD SARS-CoV-2 (n=9)

**SCV2\_21C1A-04 - Qualitative Results Breakdown**

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
SCV2_21C1A-04	SARS-CoV-2	Transport Medium	3.09 dPCR Log10 Copies/ml (DS1_2)	Frequently Detected	CORE	98.0	951

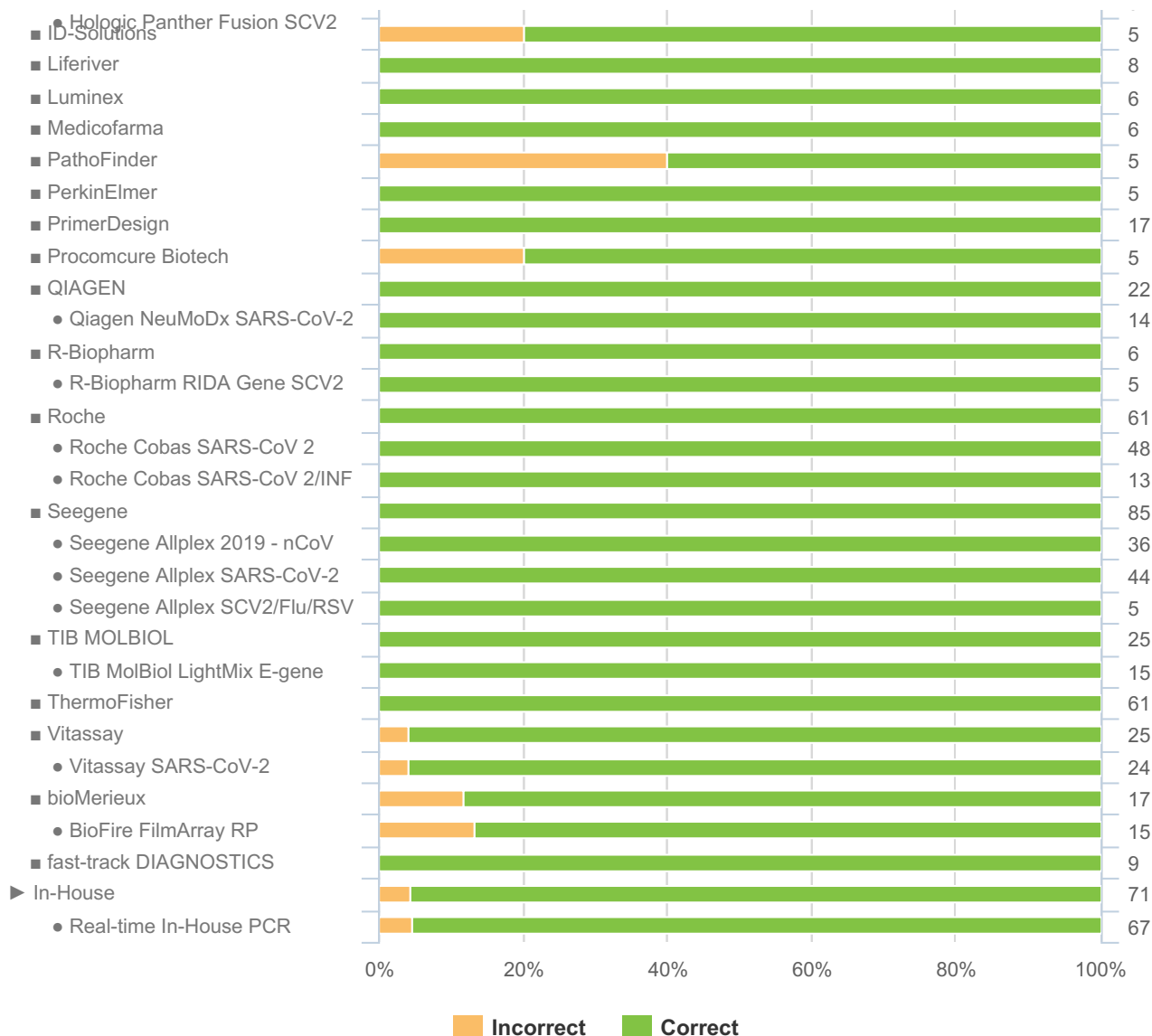


# Individual Report

# QCMD 2021 SARS-CoV-2 EQA Programme



<b>Catalogue Code:</b> QAV204215	<b>Ref Code:</b> SCV2_21	<b>Challenge:</b> C1A	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 423784	<b>Report UID:</b> 2677/423784/3275	<b>Laboratory:</b> CZ023
-------------------------------------	-----------------------------	--------------------------	--------------------------------------	---------------------------	--	-----------------------------





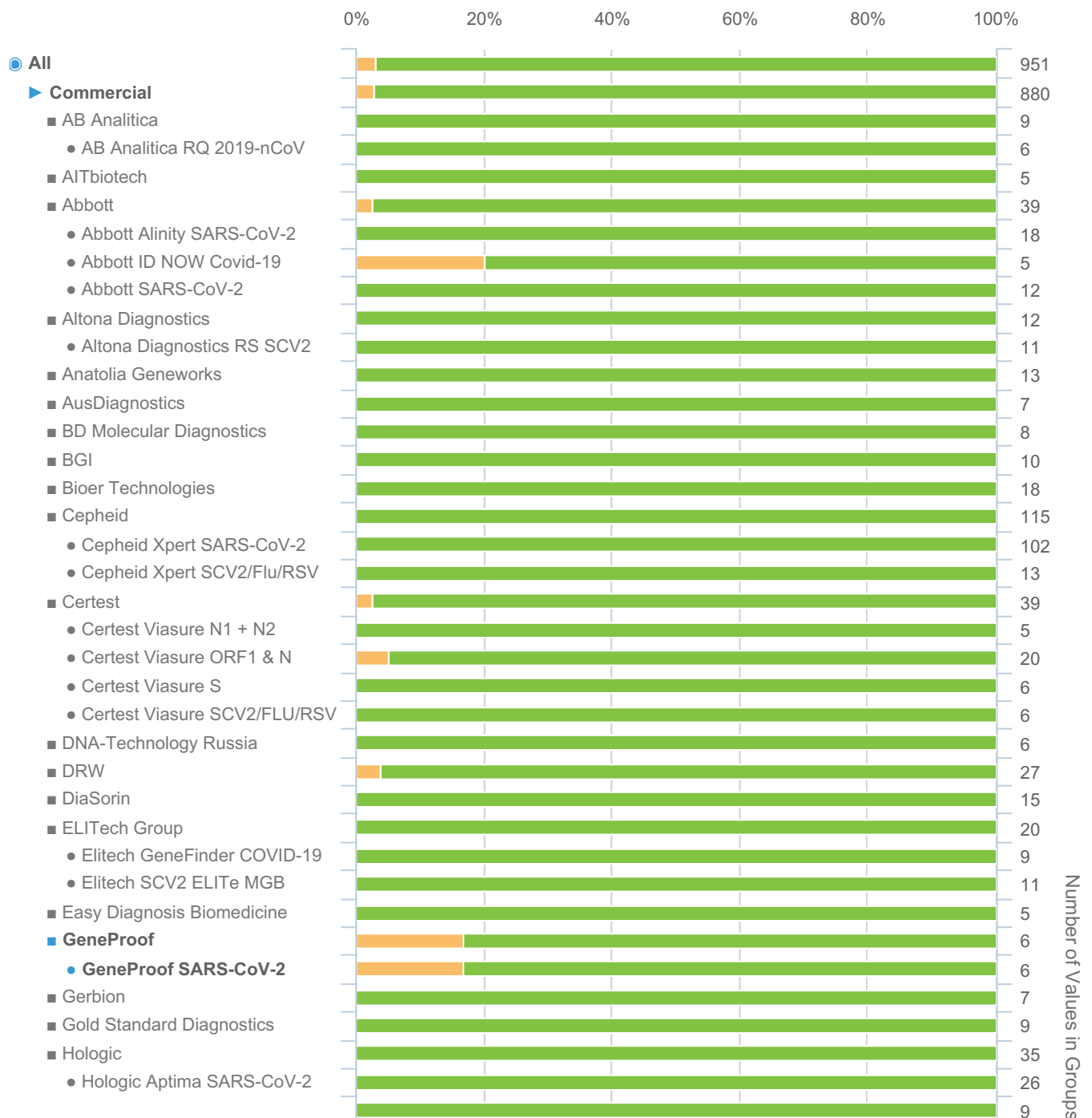
Catalogue Code:	Ref Code:	Challenge:	Analysis Type:	Dataset:	Report UID:	Laboratory
QAV204215	SCV2_21	C1A	Qualitative	423784	2677/423784/3275	CZ023

**Groups below n=5:** 3CR Bioscience (n=1), 3CR Bioscience - 3CR Bioscience ProbeSure COVID-19 (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), AB Analytica - AB Analytica RQ SARS-CoV-2 (n=1), ADEMTECH (n=1), ADEMTECH - ADEMTECH ViroGENIE SARS-CoV-2 (n=1), Abbott - Abbott Alinity M Resp 4 Plex (n=4), Agena Bioscience (n=1), Agena Bioscience - Agena Bioscience SARS-CoV-2 (n=1), Altona Diagnostics - Altona Diagnostics AS SCV2 (n=1), AmpliSens (n=1), AmpliSens - AmpliSens CoV-Bat\_FRT (n=1), Astra Biotech (n=2), Astra Biotech - Astra Biotech SARS-CoV-2 (n=2), AusDiagnostics - AusDiagnostics Respiratory Pathogens (n=3), AusDiagnostics - AusDiagnostics Respiratory Pathogens C (n=1), AusDiagnostics - AusDiagnostics Respiratory Viruses (n=1), AusDiagnostics - AusDiagnostics SARS-CoV-2/Influenza/RSV (n=2), Bio Mol (n=1), Bio Mol - Bio Mol SARS-CoV-2 (n=1), Bio-Rad (n=2), Bio-Rad - Bio-Rad SARS-CoV-2 (n=2), BioMaxima (n=1), BioMaxima - BioMaxima SARS-Cov-2 (n=1), Biocartis (n=1), Biocartis - Biocartis Idylla SARS-CoV-2 (n=1), Bioeksen (n=1), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=1), Bioline (n=1), Bioline - Bioline SensiFast (n=1), Biomeme (n=1), Biomeme - Biomeme SARS-CoV-2 (n=1), CDC (n=2), CDC - CDC SARS-CoV-2 (n=2), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=2), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Co-Diagnostics Inc (n=3), Co-Diagnostics Inc - Co-Diagnostics Inc Logix Smart (n=3), Coyote Bioscience (n=1), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=1), Credo Diagnostics Biomedical (n=2), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=2), DAAN GENE (n=1), DAAN GENE - DAAN Gene Covid-19 (n=1), Diagenode (n=1), Diagenode - Diagenode Real-Time PCR (n=1), EUROIMMUN (n=4), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=4), Eurobio Scientific (n=3), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=3), GenMark Dx (n=4), GenMark Dx - GenMark DX ePlex (n=4), GeneMe (n=1), GeneMe - GeneMe CoVi19 (n=1), Genematrix (n=1), Genematrix - Genematrix NeoPlex (n=1), Generon (n=1), Generon - Generon VetFinder (n=1), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gerbion - Gerbion respiraSC2 (n=2), Gerbion - Gerbion respiraSC2-FluA/B (n=1), Gerbion - Gerbion respiraScreen 1 (n=1), Gerbion - Gerbion respiraScreen 2 (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=2), Hain Lifescience (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 plus (n=1), Hema Diagnostic Systems (n=1), Hema Diagnostic Systems - Hema COVID-19 (n=1), HybriBio Limited (n=1), HybriBio Limited - HybriBio Real-Time PCR Kit (n=1), Immundiagnostik (n=1), Immundiagnostik - Immundiagnostik MutaPLEX (n=1), Ingenetix (n=1), Ingenetix - ViroReal SARS-CoV-2 (n=1), Innocreate Bioscience (n=1), Innocreate Bioscience - Innocreate Bioscience SARS-CoV-2 (n=1), Karwa Enterprises Pvt. Ltd. (n=1), Karwa Enterprises Pvt. Ltd. - Karwa Enterprises SARS-CoV-2 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), Labsystems Diagnostics (n=4), Labsystems Diagnostics - Labsystems Diagnostics Covid-19 (n=4), Life Real (n=1), Life Real - Life Real COVID-19 (n=1), Luminex - Luminex ARIES SCV2 (n=4), Luminex - Luminex NxTAG RPP + SCV2 (n=2), Menarini Diagnostics (n=1), Menarini Diagnostics - Menarini SARS-CoV-2 (n=1), MiRXES (n=1), MiRXES - MiRXES Fortitude Covid-19 (n=1), Mikrogen (n=2), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=1), Mikrogen - Mikrogen ampliCube FLU/SCV2 (n=1), Mobidiag (n=4), Mobidiag - Mobidiag Amplidiag COVID-19 (n=2), Mobidiag - Mobidiag Novodiag COVID-19 (n=2), MobioSense Corp. (n=1), MobioSense Corp. - MobioSense Covid-19 (n=1), Mylab Discovery solutions (n=1), Mylab Discovery solutions - Mylab PathoDetect COVID-19 (n=1), Nonacus (n=3), Nonacus - Nonacus VirPath SARS-CoV-2 (n=3), Nuclear Laser Medicine (n=1), Nuclear Laser Medicine - Nuclear Laser SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PentaBase (n=3), PentaBase - PentaBase CoviDetect (n=3), Promega (n=1), Promega - Promega SARS-CoV-2 (n=1), QIAGEN - Qiagen QIAprep & amp (n=3), QIAGEN - Qiagen QIAstat-Dx Respiratory 2019-nCoV (n=3), QIAGEN - Qiagen QIAstat-Dx Respiratory SCV2 (n=2), Quantabio (n=4), Quantabio - Quantabio Script One-Step Covid-19 (n=4), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), RTA Laboratories (n=1), RTA Laboratories - RTA Laboratories DIAGNOVITAL SARS-CoV-2 (n=1), Randox (n=4), Randox - Randox COVID-19 qPCR (n=3), Randox - Randox Extended Coronavirus Array (n=1), Sacace (n=1), Sacace - Sacace SARS-CoV-2 (n=1), Sansure Biotech (n=4), Sansure Biotech - Sansure Biotech nCoV PCR Kit (n=4), Savyon Diagnostics (n=1), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 Plus (n=1), Serosep (n=4), Serosep - Serosep RespiBio SARS-CoV-2 (n=4), Shanghai Fosun Pharmaceutical (n=2), Shanghai Fosun Pharmaceutical - Shanghai Fosun Real Time PCR (n=2), Shanghai Kehua bio engineering Co., Ltd (n=3), Shanghai Kehua bio engineering Co., Ltd - Shanghai KHB SARS-CoV-2 (n=3), SolGent (n=2), SolGent - SolGent DiaPlexQ-nCoV (n=2), TIB MOLBIOL - TIB MOLBIOL VirSNIp (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/N-gene (n=3), TIB MOLBIOL - TIB MolBiol LightMix E/N/RdRP (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/RdRP (n=3), TIB MOLBIOL - TIB MolBiol LightMix RdRP (n=2), TK Biotech (n=2), TK Biotech - TK Biotech SARS-CoV-2 (n=2), Vazyme (n=1), Vazyme - Vazyme SARS-CoV-2 (n=1), Vitassay - Vitassay SCV2/Flu/RSV (n=1), YouSeq (n=2), YouSeq - YouSeq SARS CoV-2 (n=2), Yourgene Health (n=3), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=3), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=2), dnature (n=1), dnature - dnature SARS-CoV-2 (n=1), In-House - Conventional In-House PCR (n=4)

**Groups Rolled Up:** AITbiotech - AITbiotech abTES COVID-19 (n=5), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=13), BD Molecular Diagnostics - BD SARS-CoV-2 (n=8), BGI - BGI Real Time PCR (n=10), Bioer Technologies - Bioer SARS-CoV-2 (n=18), DNA-Technology Russia - DNA-Technology Covid-19 (n=6), DRW - DRW SAMBA II SARS-CoV-2 (n=27), DiaSorin - DiaSorin Simplexa COVID-19 (n=15), Easy Diagnosis Biomedicine - EasyDiagnosis SARS-CoV-2 (n=5), Gold Standard Diagnostics - GSD NovaPrime SARS-CoV-2 (n=9), ID-Solutions - ID SARS CoV-2 (n=5), Liferiver - Liferiver 2019-nCoV (n=8), Medicofarma - Medicofarma MediPAN COVID SARS-CoV-2 (n=6), PathoFinder - PathoFinder RealAccurate SARS-CoV-2 (n=5), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=5), PrimerDesign - PrimerDesign Genesis (n=17), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=5), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=61), fast-track DIAGNOSTICS - FTD SARS-CoV-2 (n=9)

**SCV2\_21C1A-05 - Qualitative Results Breakdown**

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
SCV2_21C1A-05	SARS-CoV-2	Transport Medium	2.94 dPCR Log10 Copies/ml (D1, DS1_3)	Frequently Detected	CORE	97.1	951

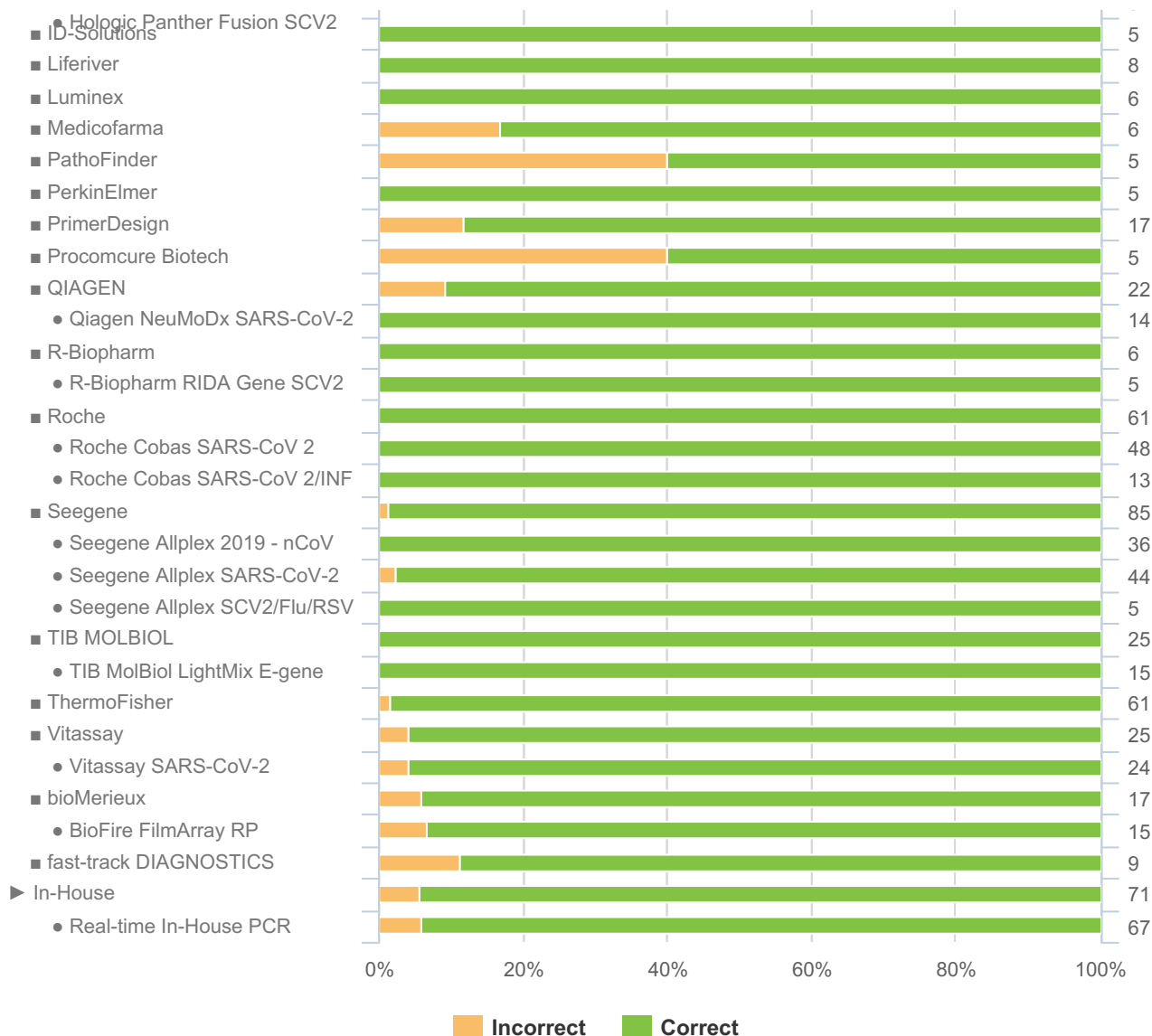


# Individual Report

# QCMD 2021 SARS-CoV-2 EQA Programme




<b>Catalogue Code:</b> QAV204215	<b>Ref Code:</b> SCV2_21	<b>Challenge:</b> C1A	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 423784	<b>Report UID:</b> 2677/423784/3275	<b>Laboratory</b> CZ023
-------------------------------------	-----------------------------	--------------------------	--------------------------------------	---------------------------	--	----------------------------



Catalogue Code:	Ref Code:	Challenge:	Analysis Type:	Dataset:	Report UID:	Laboratory
QAV204215	SCV2_21	C1A	Qualitative	423784	2677/423784/3275	CZ023

**Groups below n=5:** 3CR Bioscience (n=1), 3CR Bioscience - 3CR Bioscience ProbeSure COVID-19 (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), AB Analytica - AB Analytica RQ SARS-CoV-2 (n=1), ADEMTECH (n=1), ADEMTECH - ADEMTECH ViroGENIE SARS-CoV-2 (n=1), Abbott - Abbott Alinity M Resp 4 Plex (n=4), Agena Bioscience (n=1), Agena Bioscience - Agena Bioscience SARS-CoV-2 (n=1), Altona Diagnostics - Altona Diagnostics AS SCV2 (n=1), AmpliSens (n=1), AmpliSens - AmpliSens CoV-Bat\_FRT (n=1), Astra Biotech (n=2), Astra Biotech - Astra Biotech SARS-CoV-2 (n=2), AusDiagnostics - AusDiagnostics Respiratory Pathogens (n=3), AusDiagnostics - AusDiagnostics Respiratory Pathogens C (n=1), AusDiagnostics - AusDiagnostics Respiratory Viruses (n=1), AusDiagnostics - AusDiagnostics SARS-CoV-2/Influenza/RSV (n=2), Bio Mol (n=1), Bio Mol - Bio Mol SARS-CoV-2 (n=1), Bio-Rad (n=2), Bio-Rad - Bio-Rad SARS-CoV-2 (n=2), BioMaxima (n=1), BioMaxima - BioMaxima SARS-Cov-2 (n=1), Biocartis (n=1), Biocartis - Biocartis Idylla SARS-CoV-2 (n=1), Bioeksen (n=1), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=1), Bioline (n=1), Bioline - Bioline SensiFast (n=1), Biomeme (n=1), Biomeme - Biomeme SARS-CoV-2 (n=1), CDC (n=2), CDC - CDC SARS-CoV-2 (n=2), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=2), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Co-Diagnostics Inc (n=3), Co-Diagnostics Inc - Co-Diagnostics Inc Logix Smart (n=3), Coyote Bioscience (n=1), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=1), Credo Diagnostics Biomedical (n=2), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=2), DAAN GENE (n=1), DAAN GENE - DAAN Gene Covid-19 (n=1), Diagenode (n=1), Diagenode - Diagenode Real-Time PCR (n=1), EUROIMMUN (n=4), EUROIMMUN - EURO RealTime SARS-CoV-2 (n=4), Eurobio Scientific (n=3), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=3), GenMark Dx (n=4), GenMark Dx - GenMark DX ePlex (n=4), GeneMe (n=1), GeneMe - GeneMe CoVi19 (n=1), Genematrix (n=1), Genematrix - Genematrix NeoPlex (n=1), Generon (n=1), Generon - Generon VetFinder (n=1), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gerbion - Gerbion respiraSC2 (n=2), Gerbion - Gerbion respiraSC2-FluA/B (n=1), Gerbion - Gerbion respiraScreen 1 (n=1), Gerbion - Gerbion respiraScreen 2 (n=1), Gerbion - Gerbion virella SARS-CoV-2 (n=2), Hain Lifescience (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 plus (n=1), Hema Diagnostic Systems (n=1), Hema Diagnostic Systems - Hema COVID-19 (n=1), HybriBio Limited (n=1), HybriBio Limited - HybriBio Real-Time PCR Kit (n=1), Immundiagnostik (n=1), Immundiagnostik - Immundiagnostik MutaPLEX (n=1), Ingenetix (n=1), Ingenetix - ViroReal SARS-CoV-2 (n=1), Innocreate Bioscience (n=1), Innocreate Bioscience - Innocreate Bioscience SARS-CoV-2 (n=1), Karwa Enterprises Pvt. Ltd. (n=1), Karwa Enterprises Pvt. Ltd. - Karwa Enterprises SARS-CoV-2 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), Labsystems Diagnostics (n=4), Labsystems Diagnostics - Labsystems Diagnostics Covid-19 (n=4), Life Real (n=1), Life Real - Life Real COVID-19 (n=1), Luminex - Luminex ARIES SCV2 (n=4), Luminex - Luminex NxTAG RPP + SCV2 (n=2), Menarini Diagnostics (n=1), Menarini Diagnostics - Menarini SARS-CoV-2 (n=1), MiRXES (n=1), MiRXES - MiRXES Fortitude Covid-19 (n=1), Mikrogen (n=2), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=1), Mikrogen - Mikrogen ampliCube FLU/SCV2 (n=1), Mobidiag (n=4), Mobidiag - Mobidiag Amplidiag COVID-19 (n=2), Mobidiag - Mobidiag Novodiag COVID-19 (n=2), MobioSense Corp. (n=1), MobioSense Corp. - MobioSense Covid-19 (n=1), Mylab Discovery solutions (n=1), Mylab Discovery solutions - Mylab PathoDetect COVID-19 (n=1), Nonacus (n=3), Nonacus - Nonacus VirPath SARS-CoV-2 (n=3), Nuclear Laser Medicine (n=1), Nuclear Laser Medicine - Nuclear Laser SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PentaBase (n=3), PentaBase - PentaBase CoviDetect (n=3), Promega (n=1), Promega - Promega SARS-CoV-2 (n=1), QIAGEN - Qiagen QIAprep & amp (n=3), QIAGEN - Qiagen QIAstat-Dx Respiratory 2019-nCoV (n=3), QIAGEN - Qiagen QIAstat-Dx Respiratory SCV2 (n=2), Quantabio (n=4), Quantabio - Quantabio Script One-Step Covid-19 (n=4), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), RTA Laboratories (n=1), RTA Laboratories - RTA Laboratories DIAGNOVITAL SARS-CoV-2 (n=1), Randox (n=4), Randox - Randox COVID-19 qPCR (n=3), Randox - Randox Extended Coronavirus Array (n=1), Sacace (n=1), Sacace - Sacace SARS-CoV-2 (n=1), Sansure Biotech (n=4), Sansure Biotech - Sansure Biotech nCoV PCR Kit (n=4), Savyon Diagnostics (n=1), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 Plus (n=1), Serosep (n=4), Serosep - Serosep RespiBio SARS-CoV-2 (n=4), Shanghai Fosun Pharmaceutical (n=2), Shanghai Fosun Pharmaceutical - Shanghai Fosun Real Time PCR (n=2), Shanghai Kehua bio engineering Co., Ltd (n=3), Shanghai Kehua bio engineering Co., Ltd - Shanghai KHB SARS-CoV-2 (n=3), SolGent (n=2), SolGent - SolGent DiaPlexQ-nCoV (n=2), TIB MOLBIOL - TIB MOLBIOL VirSNIIP (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/N-gene (n=3), TIB MOLBIOL - TIB MolBiol LightMix E/N/RdRP (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/RdRP (n=3), TIB MOLBIOL - TIB MolBiol LightMix RdRP (n=2), TK Biotech (n=2), TK Biotech - TK Biotech SARS-CoV-2 (n=2), Vazyme (n=1), Vazyme - Vazyme SARS-CoV-2 (n=1), Vitassay - Vitassay SCV2/Flu/RSV (n=1), YouSeq (n=2), YouSeq - YouSeq SARS CoV-2 (n=2), Yourgene Health (n=3), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=3), bioMerieux - bioMerieux R-gene SARS-CoV-2 (n=2), dnature (n=1), dnature - dnature SARS-CoV-2 (n=1), In-House - Conventional In-House PCR (n=4)

**Groups Rolled Up:** AITbiotech - AITbiotech abTES COVID-19 (n=5), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=13), BD Molecular Diagnostics - BD SARS-CoV-2 (n=8), BGI - BGI Real Time PCR (n=10), Bioer Technologies - Bioer SARS-CoV-2 (n=18), DNA-Technology Russia - DNA-Technology Covid-19 (n=6), DRW - DRW SAMBA II SARS-CoV-2 (n=27), DiaSorin - DiaSorin Simplexa COVID-19 (n=15), Easy Diagnosis Biomedicine - EasyDiagnosis SARS-CoV-2 (n=5), Gold Standard Diagnostics - GSD NovaPrime SARS-CoV-2 (n=9), ID-Solutions - ID SARS CoV-2 (n=5), Liferiver - Liferiver 2019-nCoV (n=8), Medicofarma - Medicofarma MediPAN COVID SARS-CoV-2 (n=6), PathoFinder - PathoFinder RealAccurate SARS-CoV-2 (n=5), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=5), PrimerDesign - PrimerDesign Genesis (n=17), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=5), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=61), fast-track DIAGNOSTICS - FTD SARS-CoV-2 (n=9)

<b>Individual Report</b>		<b>QCMD 2021 SARS-CoV-2 EQA Programme</b>				 <small>Quality Control for Molecular Diagnostics</small>	
<b>Catalogue Code:</b> QAV204215	<b>Ref Code:</b> SCV2_21	<b>Challenge:</b> C1A	<b>Analysis Type:</b> Qualitative	<b>Dataset:</b> 423784	<b>Report UID:</b> 2677/423784/3275	<b>Laboratory</b> CZ023	

**QCMD © 2021.** The QCMD EQA programme samples, associated reports and data generated during this programme are intended for External Quality Assessment (EQA) and Proficiency Testing (PT) purposes only. QCMD operates according to a strict Code of Practice which is in line with ISO/IEC 17043 and associated standards. Data reported in QCMD programmes is representative of a laboratory's standard diagnostic testing protocols irrespective of the technology they use. The data provided in the reports are based on technical information provided by the individual laboratories as part of the assessment process, as such it does not constitute a formal technology method comparison. All text and images produced by QCMD are the property of QCMD unless otherwise stated.

The reproduction and use of these materials is not permitted without the express written consent of QCMD. The use of the information provided in QCMD reports for commercial purposes is strictly prohibited.