


Individual Report		QCMD 2021 SARS-CoV-2 EQA Programme				 Quality Control for Molecular Diagnostics	
Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1B	Analysis Type: Qualitative	Dataset: 454176	Report UID: 2677/454176/3483	Laboratory CZ023	

Intended Results / Panel Composition

Sample Code	Sample Content	Matrix	Sample Relationships [1]	Detection Frequency [2]	Sample Status [3]	Percentage Correct (All) [4]	
						(%)	(n)
SCV2_21C1B-01	SARS-CoV-2 Lineage B.1	Transport Medium	4.13 dPCR Log10 Copies/ml (DS1_1)	Frequently Detected	CORE	99.1	1327
SCV2_21C1B-02	SARS-CoV-2 Lineage B.1.1.298	Transport Medium	2.51 dPCR Log10 Copies/ml	Frequently Detected	CORE	96.4	1327
SCV2_21C1B-03	SARS-CoV-2 Lineage B.1	Transport Medium	2.00 dPCR Log10 Copies/ml (DS1_3)	Detected	CORE	87.3	1327
SCV2_21C1B-04	SARS-CoV-2 Lineage B.1.1.25	Transport Medium	2.94 dPCR Log10 Copies/ml	Frequently Detected	CORE	97.2	1327
SCV2_21C1B-05	SARS-CoV-2 Lineage B.1	Transport Medium	3.15 dPCR Log10 Copies/ml (DS1_2)	Frequently Detected	CORE	97.7	1327

[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 [1]

GeneProof

Core Panel Detection (Qualitative) Score [2]

0

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Core Panel Members Results

Sample Code	Qualitative Results			Your Quantitative Data (for information only) ^[3]		
	Percentage Correct (All) ^[4]	Your Result ^[5]	Detection Score ^[6]	Reported Value	Unitage	Cycle Threshold
SCV2_21C1B-01	99.1	Positive	0		N/A	26.31
SCV2_21C1B-02	96.4	Positive	0		N/A	29.47
SCV2_21C1B-03	87.3	Positive	0		N/A	35.91
SCV2_21C1B-04	97.2	Positive	0		N/A	29.5
SCV2_21C1B-05	97.7	Positive	0		N/A	29.48

[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.

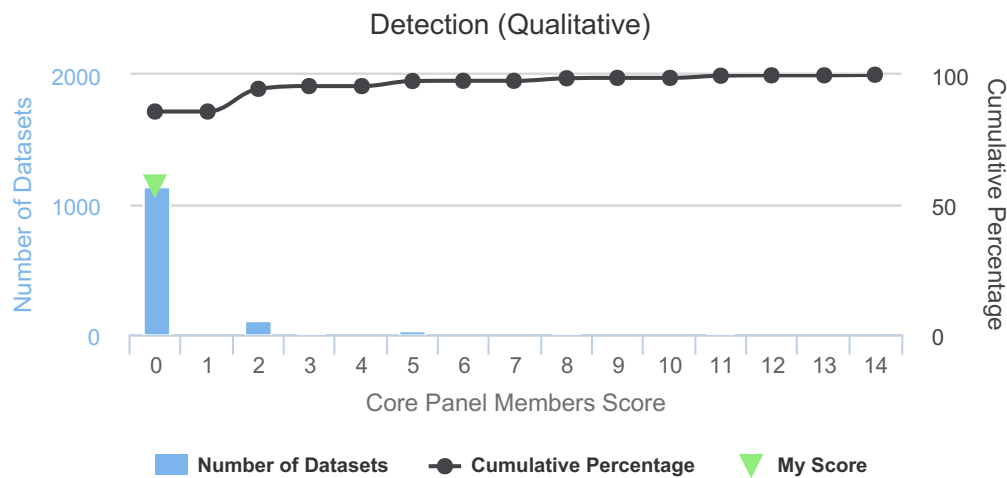
[4] **Percentage Correct (All):** Percentage of datasets (%) reporting the correct qualitative results for each panel member.


[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






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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.

Name	SARS-CoV-2 Advanced PCR Kit (v2)
Description	
Targets	 coronavirus
Assays	<ul style="list-style-type: none">  <i>Extraction</i> - Manual Extraction Process <ul style="list-style-type: none"> ● Commercial <ul style="list-style-type: none"> ○ Kit Manufacturer: <i>GeneProof</i> ○ Kit Type: <i>GeneProof PathogenFree RNA Isolation Kit</i>  <i>Amplification</i> - GeneProof - croBEE Real-Time PCR System <ul style="list-style-type: none"> ● Commercial <ul style="list-style-type: none"> ○ Kit Manufacturer: <i>GeneProof</i> ○ Kit Type: <i>GeneProof SARS-CoV-2 Advanced PCR Kit</i> ○ Kit Version: <i>GP</i>


Further Programme Details

Number of Participants	845
Number of Countries	60
Number of Respondents	725
Number of Datasets Submitted	1327
Qualitative Results Returned	1327 (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.

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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.

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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)

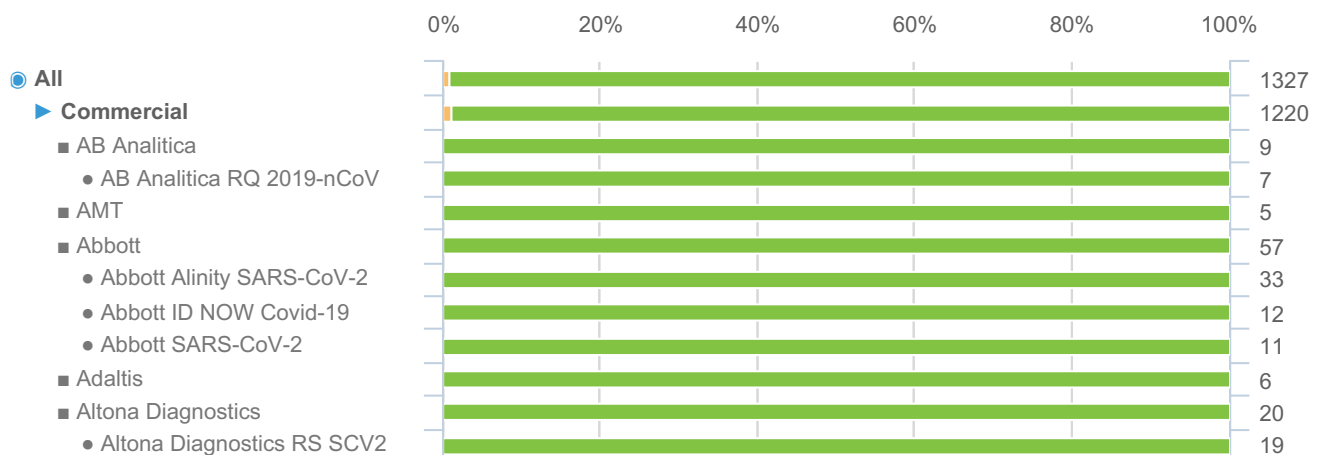
Qualitative analysis for each panel member is provided in relation to your EQA assessment group. EQA assessment groups are established using the molecular workflow information reported by all participants within this EQA challenge / distribution. The principal level of assessment is at the individual 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.

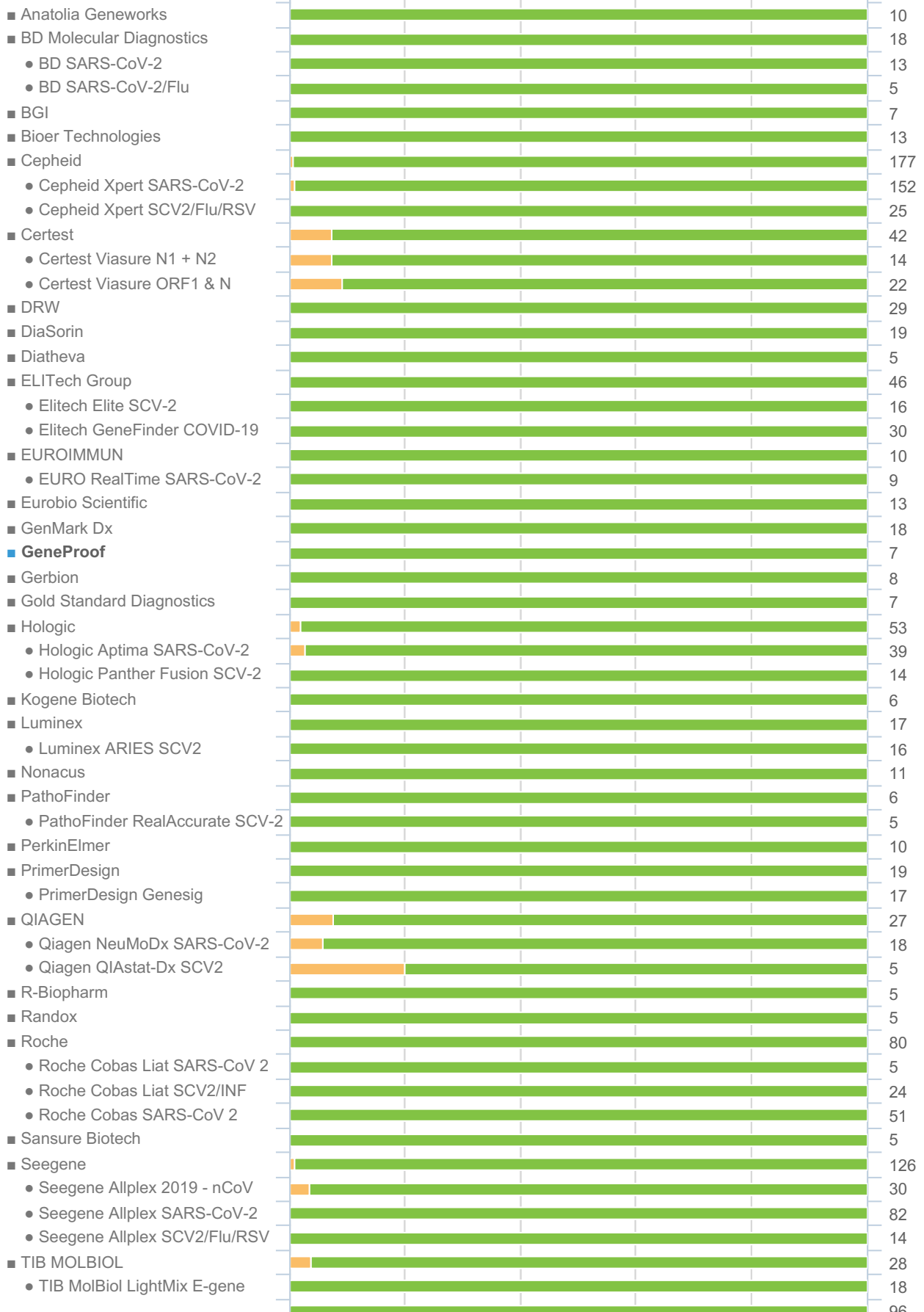
A breakdown of qualitative results reported by participants on each of the panel members within this EQA challenge / distribution is provided below. You can compare your results to those within your EQA assessment group and those obtained within other EQA assessment groups or to the overall consensus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

SCV2_21C1B-01 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
SCV2_21C1B-01	SARS-CoV-2 Lineage B.1	Transport Medium	4.13 dPCR Log10 Copies/ml (DS1_1)	Frequently Detected	CORE	99.1	1327

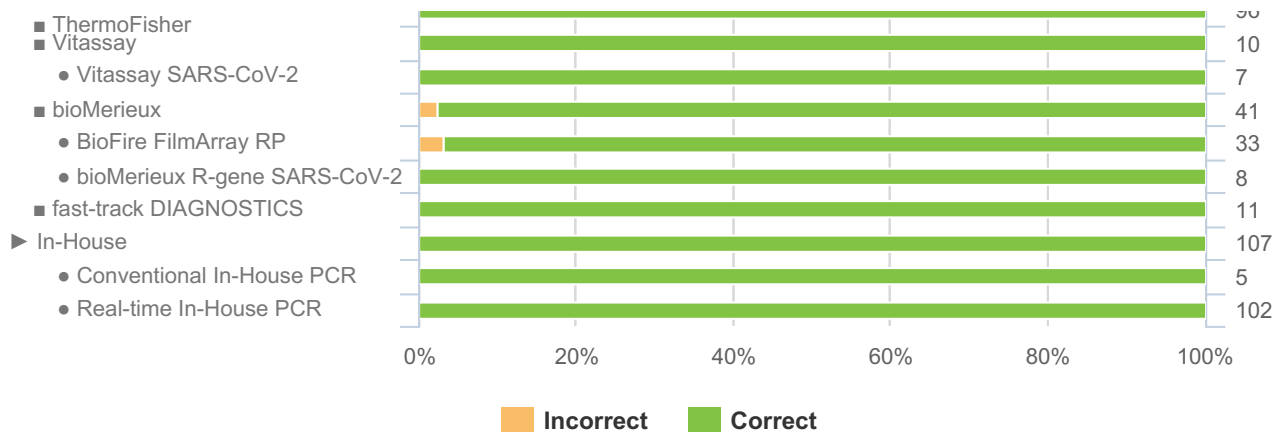


Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1B	Analysis Type: Qualitative	Dataset: 454176	Report UID: 2677/454176/3483	Laboratory CZ023
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Number of Values in Groups

Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1B	Analysis Type: Qualitative	Dataset: 454176	Report UID: 2677/454176/3483	Laboratory CZ023
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Catalogue Code:	Ref Code:	Challenge:	Analysis Type:	Dataset:	Report UID:	Laboratory
QAV204215	SCV2_21	C1B	Qualitative	454176	2677/454176/3483	CZ023

Groups below n=5: 1drop Inc. (n=3), 1drop Inc. - 1drop Inc. 1copy COVID-19 qPCR 4plex (n=3), 3D Med (n=1), 3D Med - 3D Med ANDis SARS-CoV-2 (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), ADT Biotech (n=1), ADT Biotech - ADT Biotech LyteStar 2019-nCoV (n=1), AITbiotech (n=4), AITbiotech - AITbiotech abTES COVID-19 (n=4), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Abbott - Abbott Alinity m Resp 4-Plex (n=1), Advanced Molecular Diagnostics (n=1), Advanced Molecular Diagnostics - AMD Zena Max SARS-CoV-2 (n=1), Altona Diagnostics - Altona Diagnostics AS SCV2 (n=1), Amoy Diagnostics (n=1), Amoy Diagnostics - AmoyDx Novel Coronavirus (n=1), Amplicon (n=2), Amplicon - Amplicon AmpliTest SARS-CoV-2 (n=2), Amsbio (n=1), Amsbio - Amsbio Covid-19 (n=1), Anchor Diagnostics (n=1), Anchor Diagnostics - Anchor Diagnostics SARS CoV-2 (n=1), Astra Biotech (n=1), Astra Biotech - Astra Biotech SARS-CoV-2 (n=1), AusDiagnostics (n=3), AusDiagnostics - AusDiagnostics Respiratory Pathogens C (n=2), AusDiagnostics - AusDiagnostics SARS-CoV-2/Influenza/RSV (n=1), Bio Mol (n=1), Bio Mol - Bio Mol SARS-CoV-2 (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad SARS-CoV-2 (n=1), BioMaxima (n=1), BioMaxima - BioMaxima SARS-Cov-2 (n=1), Biocartis (n=2), Biocartis - Biocartis Idylla SARS-CoV-2 (n=2), Bioeksen (n=2), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=2), Biotline (n=1), Biotline - Biotline SensiFast (n=1), Bioneer (n=2), Bioneer - Bioneer Accupower SARS-CoV-2 (n=2), Bioside (n=1), Bioside - Bioside Qualyfast SARS CoV-2 (n=1), Bosch (n=2), Bosch - Bosch Vivalytic SARS-CoV-2 (n=2), CDC (n=4), CDC - CDC SARS-CoV-2 (n=4), Certest - Certest Viasure S (n=1), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=2), Certest - Certest Viasure SCV2/FLU/RSV (n=3), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Coyote Bioscience (n=4), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=4), Credo Diagnostics Biomedical (n=1), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=1), DAAN GENE (n=4), DAAN GENE - DAAN Gene Covid-19 (n=4), DNA-Technology Russia (n=1), DNA-Technology Russia - DNA-Technology Covid-19 (n=1), DiaCarta (n=1), DiaCarta - DiaCarta QuantiVirus PCR kit (n=1), DiaPro (n=1), DiaPro - DiaPro COVID-19 (n=1), DiagCor (n=1), DiagCor - DiagCor GenoScreen SARS-CoV-2 (n=1), Diagenode (n=3), Diagenode - Diagenode Real-Time PCR (n=3), Dianext (n=1), Dianext - Dianext sensiSCREEN SARS-CoV-2 (n=1), Diatech Pharmacogenetics (n=1), Diatech Pharmacogenetics - Diatech Easy SARS-CoV-2 (n=1), EUROIMMUN - EURO RealTime SARS-CoV-2/ INF (n=1), Easy Diagnosis Biomedicine (n=2), Easy Diagnosis Biomedicine - EasyDiagnosis SARS-CoV-2 (n=2), Eurofins (n=3), Eurofins - Eurofins ViroBOAR (n=3), GenMark (n=1), GenMark - GenMark GeneMAP 2019-nCoV (SARS-CoV-2) (n=1), GeneMe (n=4), GeneMe - GeneMe CoVi19 (n=4), GeneProof - GeneProof Advanced SARS-CoV-2 (n=1), GeneProof - GeneProof SARS-CoV-2 (n=1), GeneProof - GeneProof SARS-CoV-2 South African/UK Diagnostic (n=1), GeneProof - GeneProof SARS-CoV-2 South African/UK/BR Typing (n=1), GeneProof - Geneproof SARS-CoV-2 RdRp Confirmatory (n=1), GeneProof - Geneproof SARS-CoV-2 Screening (n=1), GeneProof - Geneproof SARS-CoV-2 South African/UK Typing (n=1), Genematrix (n=3), Genematrix - Genematrix NeoPlex (n=3), Generon (n=1), Generon - Generon VETfinder (n=1), Genetic PCR solutions (n=1), Genetic PCR solutions - Genetic PCR solutions CoVID-19 (n=1), Genetic Signatures (n=2), Genetic Signatures - Genetic Signatures SARS-CoV-2 (n=2), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gerbion - Gerbion respiraSC2 (n=1), Gerbion - Gerbion respiraSC2-FluA/B (n=1), Gerbion - Gerbion respiraScreen 1 (n=1), Gerbion - Gerbion respiraScreen 2 (n=2), Gerbion - Gerbion virella SARS-CoV-2 (n=3), Grisp Reasearch Solutions (n=1), Grisp Reasearch Solutions - Grisp Xpert One-Step (n=1), Hain Lifescience (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 varID (n=1), HybriBio Limited (n=2), HybriBio Limited - HybriBio Real-Time PCR Kit (n=2), ID-Solutions (n=4), ID-Solutions - ID SARS CoV-2 (n=4), IONTEK (n=1), IONTEK - IONTEK Fluorion nCoV-19 (n=1), ITRI (n=1), ITRI - ITRI SARS-CoV-2 (n=1), Immundiagnostik (n=3), Immundiagnostik - Immundignostik MutaPLEX (n=3), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), Labsystems Diagnostics (n=1), Labsystems Diagnostics - Labsystems Diagnostics Covid-19 (n=1), Liferiver (n=2), Liferiver - Liferiver 2019-nCoV (n=2), Luminex - Luminex xTAG RPP + SCV2 (n=1), Maccura Biotechnology (n=4), Maccura Biotechnology - Maccura SARS-CoV-2 (n=4), Menarini Diagnostics (n=3), Menarini Diagnostics - Menarini SARS-CoV-2 (n=3), Mikrogen (n=1), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=1), Mobidiag (n=4), Mobidiag - Mobidiag Amplidiag COVID-19 (n=3), Mobidiag - Mobidiag Novodiag COVID-19 (n=1), Molbio Diagnostics (n=1), Molbio Diagnostics - Molbio Diagnostics Truenat SCV2 (n=1), MultiplexDX (n=1), MultiplexDX - MultiplexDX rTEST COVID-19 (n=1), New England BioLabs (n=1), New England BioLabs - New Engalnd BioLabs Luna SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PathoFinder - PathoFinder RespiFinder 2SMART (n=1), Phase Scientific (n=2), Phase Scientific - Phase Scientific Covid-19 (n=2), PrimerDesign - PrimerDesign PROMate (n=2), Procomcure Biotech (n=1), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=1), QIAGEN - Qiagen NeuMoD Flu A-B/RSV/SARS-CoV-2 (n=1), QIAGEN - Qiagen QIAprep & amp (n=3), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), R-Biopharm - R-Biopharm RIDA Gene SCV2 (n=4), Randox - Randox COVID-19 qPCR (n=4), Randox - Randox Extended Coronavirus Array (n=1), SIMITECNO (n=1), SIMITECNO - SIMITECNO SARS-CoV-2 (n=1), Sacace (n=4), Sacace - Sacace SARS-CoV-2 (n=4), Savyon Diagnostics (n=2), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 (n=2), Sentebiolab (n=1), Sentebiolab - Sentebiolab Senteligo SARS-CoV-2 (n=1), Serosep (n=3), Serosep - Serosep RespiBio SARS-CoV-2 (n=3), Singuway Biotech Inc (n=1), Singuway Biotech Inc - Singuway Biotech COVID-19 (n=1), Snibe Diagnostic (n=1), Snibe Diagnostic - Snibe Diagnostic SARS-CoV-2 (n=1), SolGent (n=3), SolGent - SolGent DiaPlexQ-nCoV (n=3), TIB MOLBIOL - TIB MOLBIOL VirSNiP (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/N-gene (n=2), TIB MOLBIOL - TIB MolBiol LightMix E/N/RdRP (n=2), TIB MOLBIOL - TIB MolBiol LightMix E/RdRP (n=2), TIB MOLBIOL - TIB MolBiol LightMix RdRP (n=3), Vazyme (n=4), Vazyme - Vazyme SARS-CoV-2 (n=4), Vitassay - Vitassay SARS-CoV-2 + UK Variant (n=1), Vitassay - Vitassay SCV2/Flu (n=1), Vitassay - Vitassay SCV2/Flu/RSV (n=1), XEMA (n=1), XEMA - XEMA Covid-19 (n=1), Yourgene Health (n=3), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=3), ZJ Bio-Tech (n=3), ZJ Bio-Tech - ZJ Bio-Tech RT PCR (n=3)

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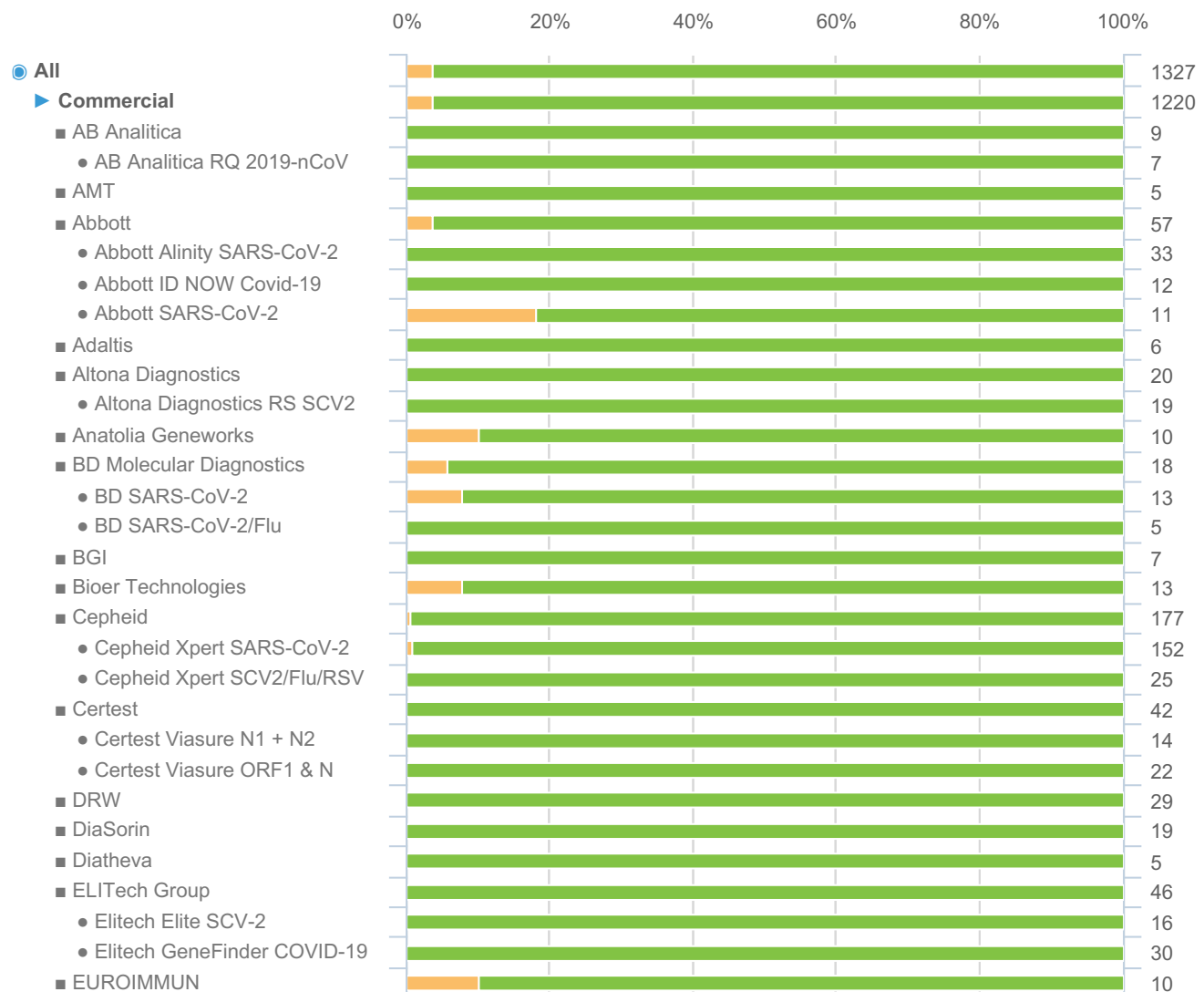


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Groups Rolled Up: AMT - AMT Resolute SARS-CoV-2 (n=5), Adaltis - Adaltis MOLgen SARS-CoV-2 (n=6), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=10), BGI - BGI Real Time PCR (n=7), Bioer Technologies - Bioer SARS-CoV-2 (n=13), DRW - DRW SAMBA II SARS-CoV-2 (n=29), DiaSorin - DiaSorin Simplexa COVID-19 (n=19), Diatheva - Diatheva COVID-19 (n=5), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=13), GenMark Dx - GenMark DX ePlex (n=18), Gold Standard Diagnostics - GSD NovaPrime SARS-CoV-2 (n=7), Kogene Biotech - Kogene Powerchek (n=6), Nonacus - Nonacus VirPath SARS-CoV-2 (n=11), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=10), Sansure Biotech - Sansure Biotech nCoV PCR Kit (n=5), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=96), fast-track DIAGNOSTICS - FTD SARS-CoV-2 (n=11)

SCV2_21C1B-02 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
SCV2_21C1B-02	SARS-CoV-2 Lineage B.1.1.298	Transport Medium	2.51 dPCR Log10 Copies/ml	Frequently Detected	CORE	96.4	1327

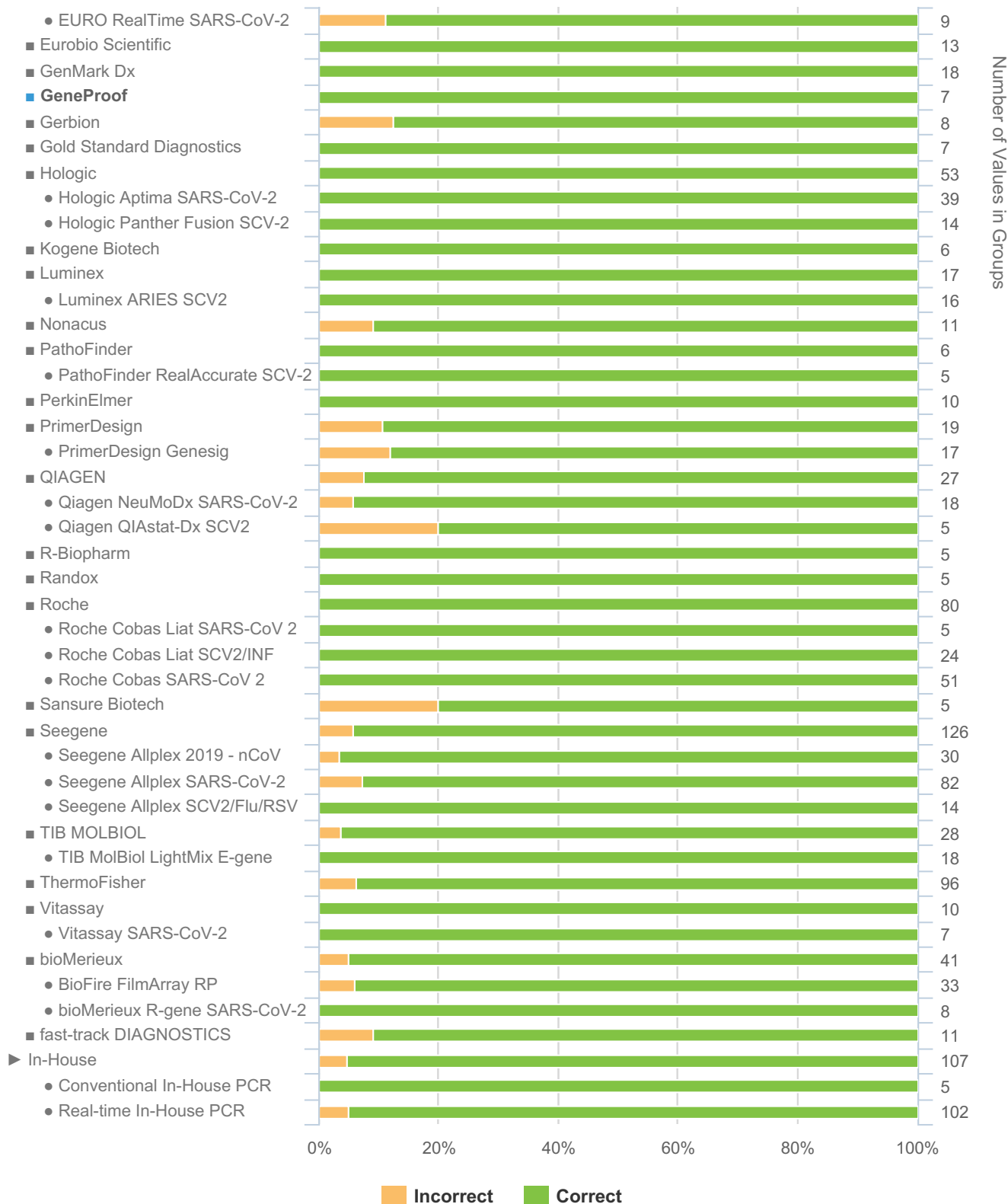


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QAV204215	SCV2_21	C1B	Qualitative	454176	2677/454176/3483	CZ023

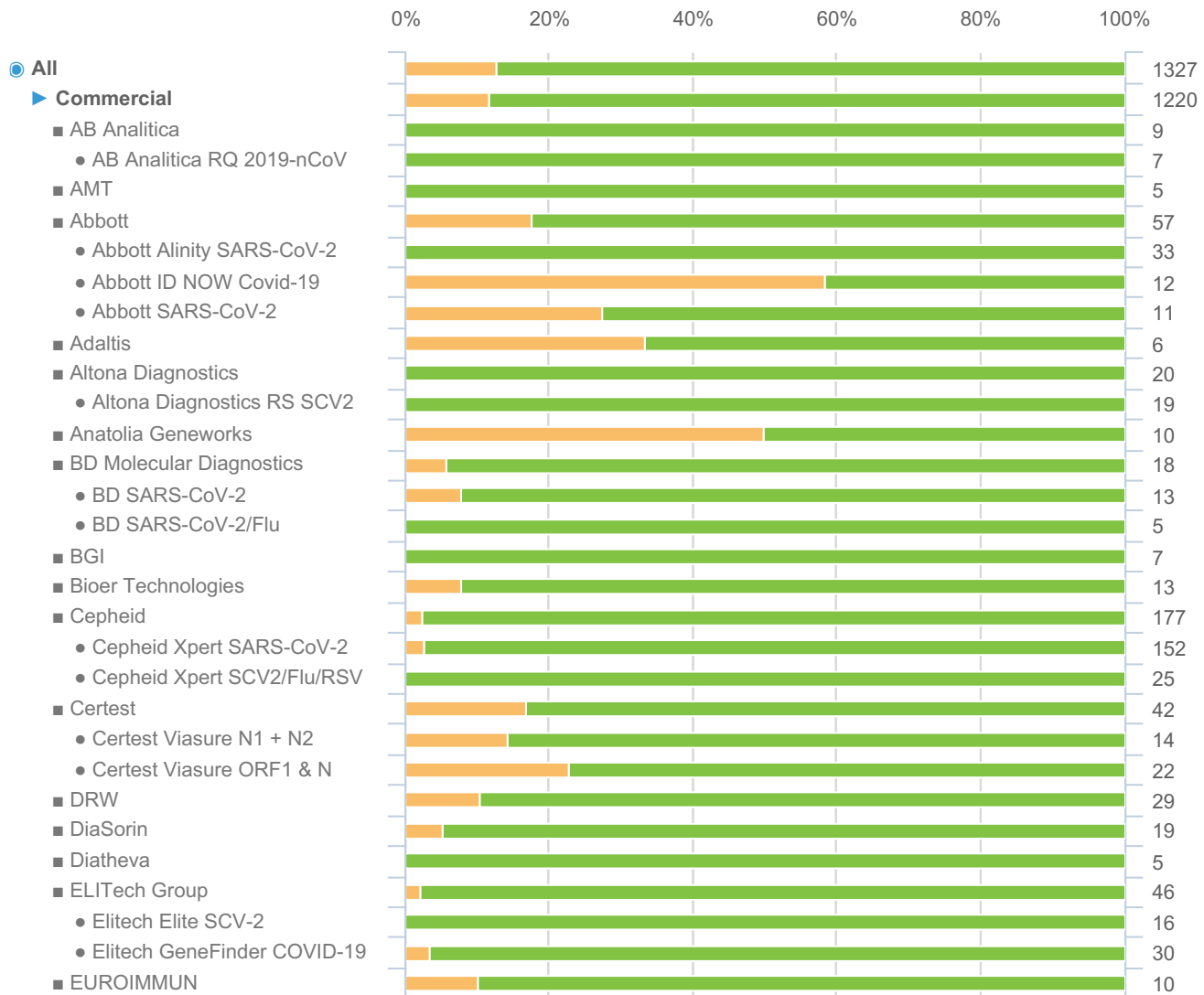
Groups below n=5: 1drop Inc. (n=3), 1drop Inc. - 1drop Inc. 1copy COVID-19 qPCR 4plex (n=3), 3D Med (n=1), 3D Med - 3D Med ANDis SARS-CoV-2 (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), ADT Biotech (n=1), ADT Biotech - ADT Biotech LyteStar 2019-nCoV (n=1), AITbiotech (n=4), AITbiotech - AITbiotech abTES COVID-19 (n=4), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Abbott - Abbott Alinity m Resp 4-Plex (n=1), Advanced Molecular Diagnostics (n=1), Advanced Molecular Diagnostics - AMD Zena Max SARS-CoV-2 (n=1), Altona Diagnostics - Altona Diagnostics AS SCV2 (n=1), Amoy Diagnostics (n=1), Amoy Diagnostics - AmoyDx Novel Coronavirus (n=1), Amplicon (n=2), Amplicon - Amplicon AmpliTest SARS-CoV-2 (n=2), Amsbio (n=1), Amsbio - Amsbio Covid-19 (n=1), Anchor Diagnostics (n=1), Anchor Diagnostics - Anchor Diagnostics SARS CoV-2 (n=1), Astra Biotech (n=1), Astra Biotech - Astra Biotech SARS-CoV-2 (n=1), AusDiagnostics (n=3), AusDiagnostics - AusDiagnostics Respiratory Pathogens C (n=2), AusDiagnostics - AusDiagnostics SARS-CoV-2/Influenza/RSV (n=1), Bio Mol (n=1), Bio Mol - Bio Mol SARS-CoV-2 (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad SARS-CoV-2 (n=1), BioMaxima (n=1), BioMaxima - BioMaxima SARS-Cov-2 (n=1), Biocartis (n=2), Biocartis - Biocartis Idylla SARS-CoV-2 (n=2), Bioeksen (n=2), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=2), Biotline (n=1), Biotline - Biotline SensiFast (n=1), Bioneer (n=2), Bioneer - Bioneer Accupower SARS-CoV-2 (n=2), Bioside (n=1), Bioside - Bioside Qualyfast SARS CoV-2 (n=1), Bosch (n=2), Bosch - Bosch Vivalytic SARS-CoV-2 (n=2), CDC (n=4), CDC - CDC SARS-CoV-2 (n=4), Certest - Certest Viasure S (n=1), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=2), Certest - Certest Viasure SCV2/FLU/RSV (n=3), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Coyote Bioscience (n=4), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=4), Credo Diagnostics Biomedical (n=1), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=1), DAAN GENE (n=4), DAAN GENE - DAAN Gene Covid-19 (n=4), DNA-Technology Russia (n=1), DNA-Technology Russia - DNA-Technology Covid-19 (n=1), DiaCarta (n=1), DiaCarta - DiaCarta QuantiVirus PCR kit (n=1), DiaPro (n=1), DiaPro - DiaPro COVID-19 (n=1), DiagCor (n=1), DiagCor - DiagCor GenoScreen SARS-CoV-2 (n=1), Diagenode (n=3), Diagenode - Diagenode Real-Time PCR (n=3), Dianext (n=1), Dianext - Dianext sensiSCREEN SARS-CoV-2 (n=1), Diatech Pharmacogenetics (n=1), Diatech Pharmacogenetics - Diatech Easy SARS-CoV-2 (n=1), EUROIMMUN - EURO RealTime SARS-CoV-2/ INF (n=1), Easy Diagnosis Biomedicine (n=2), Easy Diagnosis Biomedicine - EasyDiagnosis SARS-CoV-2 (n=2), Eurofins (n=3), Eurofins - Eurofins ViroBOAR (n=3), GenMark (n=1), GenMark - GenMark GeneMAP 2019-nCoV (SARS-CoV-2) (n=1), GeneMe (n=4), GeneMe - GeneMe CoVi19 (n=4), GeneProof - GeneProof Advanced SARS-CoV-2 (n=1), GeneProof - GeneProof SARS-CoV-2 (n=1), GeneProof - GeneProof SARS-CoV-2 South African/UK Diagnostic (n=1), GeneProof - GeneProof SARS-CoV-2 South African/UK/BR Typing (n=1), GeneProof - Geneproof SARS-CoV-2 RdRp Confirmatory (n=1), GeneProof - Geneproof SARS-CoV-2 Screening (n=1), GeneProof - Geneproof SARS-CoV-2 South African/UK Typing (n=1), Genematrix (n=3), Genematrix - Genematrix NeoPlex (n=3), Generon (n=1), Generon - Generon VETfinder (n=1), Genetic PCR solutions (n=1), Genetic PCR solutions - Genetic PCR solutions CoVID-19 (n=1), Genetic Signatures (n=2), Genetic Signatures - Genetic Signatures SARS-CoV-2 (n=2), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gerbion - Gerbion respiraSC2 (n=1), Gerbion - Gerbion respiraSC2-FluA/B (n=1), Gerbion - Gerbion respiraScreen 1 (n=1), Gerbion - Gerbion respiraScreen 2 (n=2), Gerbion - Gerbion virella SARS-CoV-2 (n=3), Grisp Reasearch Solutions (n=1), Grisp Reasearch Solutions - Grisp Xpert One-Step (n=1), Hain Lifescience (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 varID (n=1), HybriBio Limited (n=2), HybriBio Limited - HybriBio Real-Time PCR Kit (n=2), ID-Solutions (n=4), ID-Solutions - ID SARS CoV-2 (n=4), IONTEK (n=1), IONTEK - IONTEK Fluorion nCoV-19 (n=1), ITRI (n=1), ITRI - ITRI SARS-CoV-2 (n=1), Immundiagnostik (n=3), Immundiagnostik - Immundignostik MutaPLEX (n=3), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), LabSystems Diagnostics (n=1), LabSystems Diagnostics - LabSystems Diagnostics Covid-19 (n=1), Liferiver (n=2), Liferiver - Liferiver 2019-nCoV (n=2), Luminex - Luminex xTAG RPP + SCV2 (n=1), Maccura Biotechnology (n=4), Maccura Biotechnology - Maccura SARS-CoV-2 (n=4), Menarini Diagnostics (n=3), Menarini Diagnostics - Menarini SARS-CoV-2 (n=3), Mikrogen (n=1), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=1), Mobidiag (n=4), Mobidiag - Mobidiag Amplidiag COVID-19 (n=3), Mobidiag - Mobidiag Novodiag COVID-19 (n=1), Molbio Diagnostics (n=1), Molbio Diagnostics - Molbio Diagnostics Truenat SCV2 (n=1), MultiplexDX (n=1), MultiplexDX - MultiplexDX rTEST COVID-19 (n=1), New England BioLabs (n=1), New England BioLabs - New Engalnd BioLabs Luna SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PathoFinder - PathoFinder RespiFinder 2SMART (n=1), Phase Scientific (n=2), Phase Scientific - Phase Scientific Covid-19 (n=2), PrimerDesign - PrimerDesign PROMate (n=2), Procomcure Biotech (n=1), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=1), QIAGEN - Qiagen NeuMoD Flu A-B/RSV/SARS-CoV-2 (n=1), QIAGEN - Qiagen QIAprep & amp (n=3), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), R-Biopharm - R-Biopharm RIDA Gene SCV2 (n=4), Randox - Randox COVID-19 qPCR (n=4), Randox - Randox Extended Coronavirus Array (n=1), SIMITECNO (n=1), SIMITECNO - SIMITECNO SARS-CoV-2 (n=1), Sacace (n=4), Sacace - Sacace SARS-CoV-2 (n=4), Savyon Diagnostics (n=2), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 (n=2), Sentebiolab (n=1), Sentebiolab - Sentebiolab Senteligo SARS-CoV-2 (n=1), Serosep (n=3), Serosep - Serosep RespiBio SARS-CoV-2 (n=3), Singuway Biotech Inc (n=1), Singuway Biotech Inc - Singuway Biotech COVID-19 (n=1), Snibe Diagnostic (n=1), Snibe Diagnostic - Snibe Diagnostic SARS-CoV-2 (n=1), SolGent (n=3), SolGent - SolGent DiaPlexQ-nCoV (n=3), TIB MOLBIOL - TIB MOLBIOL VirSNiP (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/N-gene (n=2), TIB MOLBIOL - TIB MolBiol LightMix E/N/RdRP (n=2), TIB MOLBIOL - TIB MolBiol LightMix E/RdRP (n=2), TIB MOLBIOL - TIB MolBiol LightMix RdRP (n=3), Vazyme (n=4), Vazyme - Vazyme SARS-CoV-2 (n=4), Vitassay - Vitassay SARS-CoV-2 + UK Variant (n=1), Vitassay - Vitassay SCV2/Flu (n=1), Vitassay - Vitassay SCV2/Flu/RSV (n=1), XEMA (n=1), XEMA - XEMA Covid-19 (n=1), Yourgene Health (n=3), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=3), ZJ Bio-Tech (n=3), ZJ Bio-Tech - ZJ Bio-Tech RT PCR (n=3)

Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1B	Analysis Type: Qualitative	Dataset: 454176	Report UID: 2677/454176/3483	Laboratory CZ023
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Groups Rolled Up: AMT - AMT Resolute SARS-CoV-2 (n=5), Adaltis - Adaltis MOLgen SARS-CoV-2 (n=6), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=10), BGI - BGI Real Time PCR (n=7), Bioer Technologies - Bioer SARS-CoV-2 (n=13), DRW - DRW SAMBA II SARS-CoV-2 (n=29), DiaSorin - DiaSorin Simplexa COVID-19 (n=19), Diatheva - Diatheva COVID-19 (n=5), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=13), GenMark Dx - GenMark DX ePlex (n=18), Gold Standard Diagnostics - GSD NovaPrime SARS-CoV-2 (n=7), Kogene Biotech - Kogene Powerchek (n=6), Nonacus - Nonacus VirPath SARS-CoV-2 (n=11), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=10), Sansure Biotech - Sansure Biotech nCoV PCR Kit (n=5), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=96), fast-track DIAGNOSTICS - FTD SARS-CoV-2 (n=11)

SCV2_21C1B-03 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
SCV2_21C1B-03	SARS-CoV-2 Lineage B.1	Transport Medium	2.00 dPCR Log10 Copies/ml (DS1_3)	Detected	CORE	87.3	1327

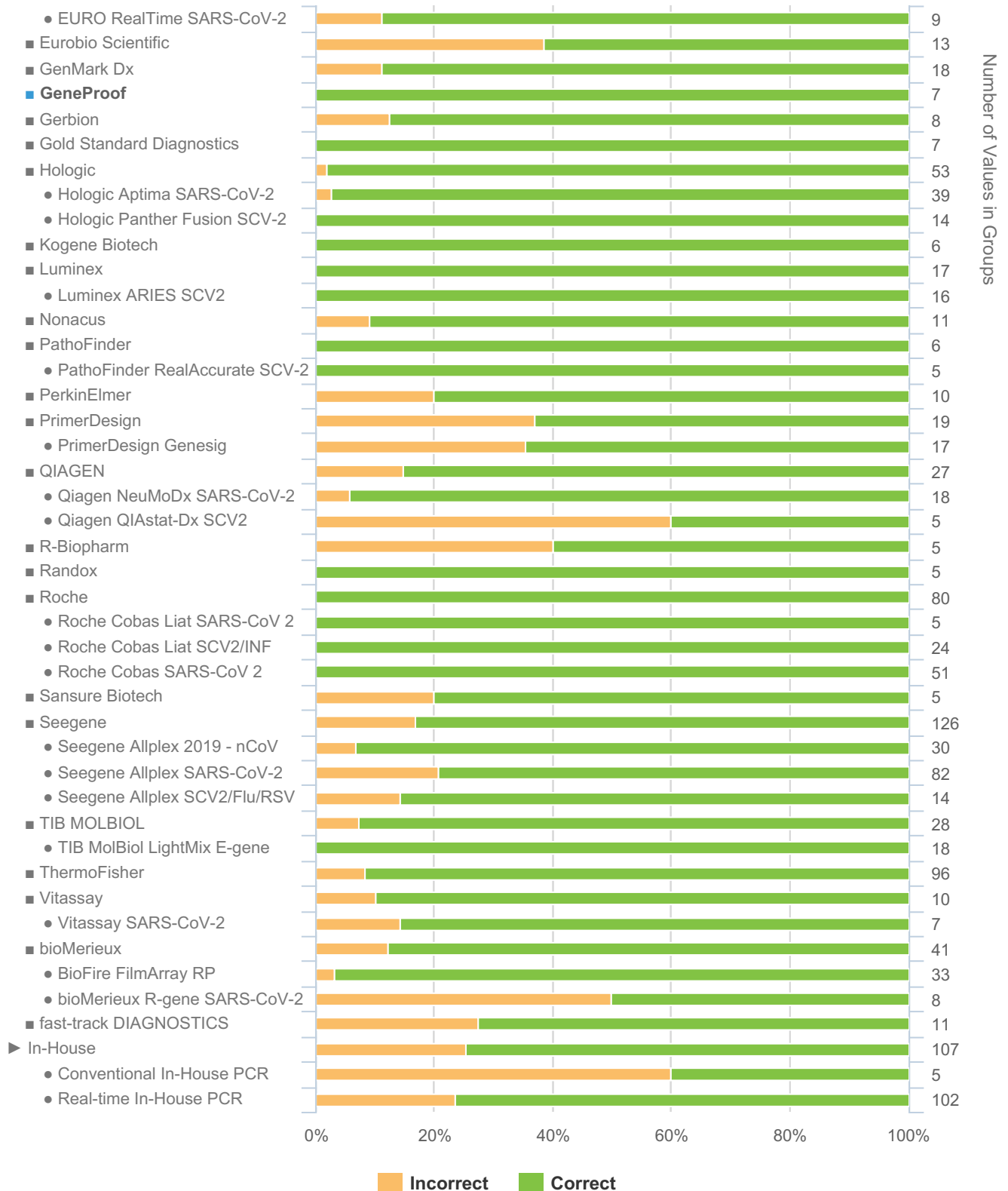


Individual Report

QCMD 2021 SARS-CoV-2 EQA Programme



Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1B	Analysis Type: Qualitative	Dataset: 454176	Report UID: 2677/454176/3483	Laboratory: CZ023
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Catalogue Code:	Ref Code:	Challenge:	Analysis Type:	Dataset:	Report UID:	Laboratory
QAV204215	SCV2_21	C1B	Qualitative	454176	2677/454176/3483	CZ023

Groups below n=5: 1drop Inc. (n=3), 1drop Inc. - 1drop Inc. 1copy COVID-19 qPCR 4plex (n=3), 3D Med (n=1), 3D Med - 3D Med ANDis SARS-CoV-2 (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), ADT Biotech (n=1), ADT Biotech - ADT Biotech LyteStar 2019-nCoV (n=1), AITbiotech (n=4), AITbiotech - AITbiotech abTES COVID-19 (n=4), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Abbott - Abbott Alinity m Resp 4-Plex (n=1), Advanced Molecular Diagnostics (n=1), Advanced Molecular Diagnostics - AMD Zena Max SARS-CoV-2 (n=1), Altona Diagnostics - Altona Diagnostics AS SCV2 (n=1), Amoy Diagnostics (n=1), Amoy Diagnostics - AmoyDx Novel Coronavirus (n=1), Amplicon (n=2), Amplicon - Amplicon AmpliTest SARS-CoV-2 (n=2), Amsbio (n=1), Amsbio - Amsbio Covid-19 (n=1), Anchor Diagnostics (n=1), Anchor Diagnostics - Anchor Diagnostics SARS CoV-2 (n=1), Astra Biotech (n=1), Astra Biotech - Astra Biotech SARS-CoV-2 (n=1), AusDiagnostics (n=3), AusDiagnostics - AusDiagnostics Respiratory Pathogens C (n=2), AusDiagnostics - AusDiagnostics SARS-CoV-2/Influenza/RSV (n=1), Bio Mol (n=1), Bio Mol - Bio Mol SARS-CoV-2 (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad SARS-CoV-2 (n=1), BioMaxima (n=1), BioMaxima - BioMaxima SARS-Cov-2 (n=1), Biocartis (n=2), Biocartis - Biocartis Idylla SARS-CoV-2 (n=2), Bioeksen (n=2), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=2), Bioline (n=1), Bioline - Bioline SensiFast (n=1), Bioneer (n=2), Bioneer - Bioneer Accupower SARS-CoV-2 (n=2), Bioside (n=1), Bioside - Bioside Qualyfast SARS CoV-2 (n=1), Bosch (n=2), Bosch - Bosch Vivalytic SARS-CoV-2 (n=2), CDC (n=4), CDC - CDC SARS-CoV-2 (n=4), Certest - Certest Viasure S (n=1), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=2), Certest - Certest Viasure SCV2/FLU/RSV (n=3), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Coyote Bioscience (n=4), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=4), Credo Diagnostics Biomedical (n=1), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=1), DAAN GENE (n=4), DAAN GENE - DAAN Gene Covid-19 (n=4), DNA-Technology Russia (n=1), DNA-Technology Russia - DNA-Technology Covid-19 (n=1), DiaCarta (n=1), DiaCarta - DiaCarta QuantiVirus PCR kit (n=1), DiaPro (n=1), DiaPro - DiaPro COVID-19 (n=1), DiagCor (n=1), DiagCor - DiagCor GenoScreen SARS-CoV-2 (n=1), Diagenode (n=3), Diagenode - Diagenode Real-Time PCR (n=3), Dianext (n=1), Dianext - Dianext sensiSCREEN SARS-CoV-2 (n=1), Diatech Pharmacogenetics (n=1), Diatech Pharmacogenetics - Diatech Easy SARS-CoV-2 (n=1), EUROIMMUN - EURO RealTime SARS-CoV-2/ INF (n=1), Easy Diagnosis Biomedicine (n=2), Easy Diagnosis Biomedicine - EasyDiagnosis SARS-CoV-2 (n=2), Eurofins (n=3), Eurofins - Eurofins ViroBOAR (n=3), GenMark (n=1), GenMark - GenMark GeneMAP 2019-nCoV (SARS-CoV-2) (n=1), GeneMe (n=4), GeneMe - GeneMe CoVi19 (n=4), GeneProof - GeneProof Advanced SARS-CoV-2 (n=1), GeneProof - GeneProof SARS-CoV-2 (n=1), GeneProof - GeneProof SARS-CoV-2 South African/UK Diagnostic (n=1), GeneProof - GeneProof SARS-CoV-2 South African/UK/BR Typing (n=1), GeneProof - Geneproof SARS-CoV-2 RdRp Confirmatory (n=1), GeneProof - Geneproof SARS-CoV-2 Screening (n=1), GeneProof - Geneproof SARS-CoV-2 South African/UK Typing (n=1), Genematrix (n=3), Genematrix - Genematrix NeoPlex (n=3), Generon (n=1), Generon - Generon VETfinder (n=1), Genetic PCR solutions (n=1), Genetic PCR solutions - Genetic PCR solutions CoVID-19 (n=1), Genetic Signatures (n=2), Genetic Signatures - Genetic Signatures SARS-CoV-2 (n=2), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gerbion - Gerbion respiraSC2 (n=1), Gerbion - Gerbion respiraSC2-FluA/B (n=1), Gerbion - Gerbion respiraScreen 1 (n=1), Gerbion - Gerbion respiraScreen 2 (n=2), Gerbion - Gerbion virella SARS-CoV-2 (n=3), Grisp Reasearch Solutions (n=1), Grisp Reasearch Solutions - Grisp Xpert One-Step (n=1), Hain Lifescience (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 varID (n=1), HybriBio Limited (n=2), HybriBio Limited - HybriBio Real-Time PCR Kit (n=2), ID-Solutions (n=4), ID-Solutions - ID SARS CoV-2 (n=4), IONTEK (n=1), IONTEK - IONTEK Fluorion nCoV-19 (n=1), ITRI (n=1), ITRI - ITRI SARS-CoV-2 (n=1), Immundiagnostik (n=3), Immundiagnostik - Immundignostik MutaPLEX (n=3), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), Labsystems Diagnostics (n=1), Labsystems Diagnostics - Labsystems Diagnostics Covid-19 (n=1), Liferiver (n=2), Liferiver - Liferiver 2019-nCoV (n=2), Luminex - Luminex xTAG RPP + SCV2 (n=1), Maccura Biotechnology (n=4), Maccura Biotechnology - Maccura SARS-CoV-2 (n=4), Menarini Diagnostics (n=3), Menarini Diagnostics - Menarini SARS-CoV-2 (n=3), Mikrogen (n=1), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=1), Mobidiag (n=4), Mobidiag - Mobidiag Amplidiag COVID-19 (n=3), Mobidiag - Mobidiag Novodiag COVID-19 (n=1), Molbio Diagnostics (n=1), Molbio Diagnostics - Molbio Diagnostics Truenat SCV2 (n=1), MultiplexDX (n=1), MultiplexDX - MultiplexDX rTEST COVID-19 (n=1), New England BioLabs (n=1), New England BioLabs - New Engalnd BioLabs Luna SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PathoFinder - PathoFinder RespiFinder 2SMART (n=1), Phase Scientific (n=2), Phase Scientific - Phase Scientific Covid-19 (n=2), PrimerDesign - PrimerDesign PROMate (n=2), Procomcure Biotech (n=1), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=1), QIAGEN - Qiagen NeuMoD Flu A-B/RSV/SARS-CoV-2 (n=1), QIAGEN - Qiagen QIAprep & amp (n=3), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), R-Biopharm - R-Biopharm RIDA Gene SCV2 (n=4), Randox - Randox COVID-19 qPCR (n=4), Randox - Randox Extended Coronavirus Array (n=1), SIMITECNO (n=1), SIMITECNO - SIMITECNO SARS-CoV-2 (n=1), Sacace (n=4), Sacace - Sacace SARS-CoV-2 (n=4), Savyon Diagnostics (n=2), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 (n=2), Sentebiolab (n=1), Sentebiolab - Sentebiolab Senteligo SARS-CoV-2 (n=1), Serosep (n=3), Serosep - Serosep RespiBio SARS-CoV-2 (n=3), Singuway Biotech Inc (n=1), Singuway Biotech Inc - Singuway Biotech COVID-19 (n=1), Snibe Diagnostic (n=1), Snibe Diagnostic - Snibe Diagnostic SARS-CoV-2 (n=1), SolGent (n=3), SolGent - SolGent DiaPlexQ-nCoV (n=3), TIB MOLBIOL - TIB MOLBIOL VirSNiP (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/N-gene (n=2), TIB MOLBIOL - TIB MolBiol LightMix E/N/RdRP (n=2), TIB MOLBIOL - TIB MolBiol LightMix E/RdRP (n=2), TIB MOLBIOL - TIB MolBiol LightMix RdRP (n=3), Vazyme (n=4), Vazyme - Vazyme SARS-CoV-2 (n=4), Vitassay - Vitassay SARS-CoV-2 + UK Variant (n=1), Vitassay - Vitassay SCV2/Flu (n=1), Vitassay - Vitassay SCV2/Flu/RSV (n=1), XEMA (n=1), XEMA - XEMA Covid-19 (n=1), Yourgene Health (n=3), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=3), ZJ Bio-Tech (n=3), ZJ Bio-Tech - ZJ Bio-Tech RT PCR (n=3)

Individual Report

QCMD 2021 SARS-CoV-2 EQA Programme

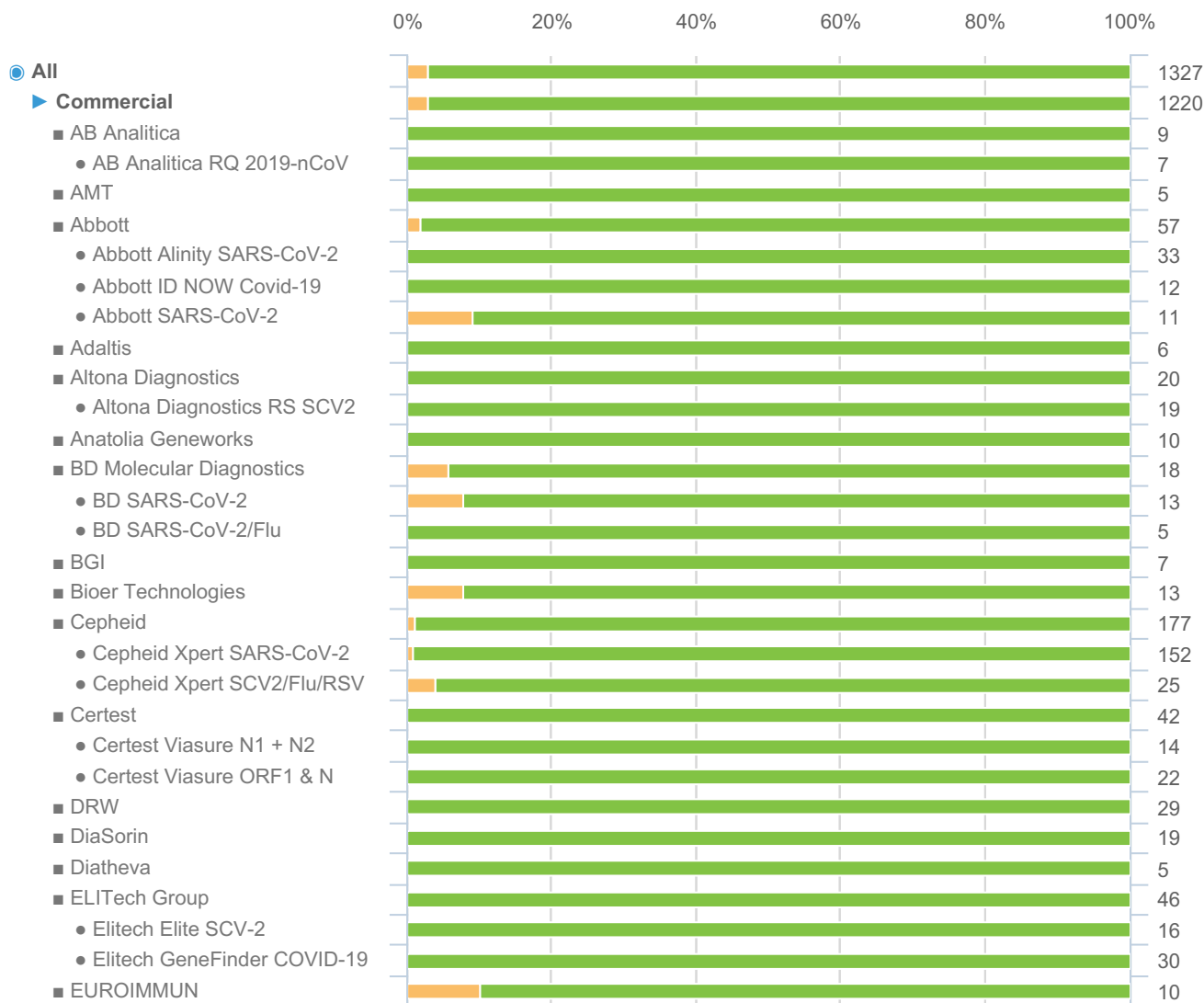


Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1B	Analysis Type: Qualitative	Dataset: 454176	Report UID: 2677/454176/3483	Laboratory CZ023
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Groups Rolled Up: AMT - AMT Resolute SARS-CoV-2 (n=5), Adaltis - Adaltis MOLgen SARS-CoV-2 (n=6), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=10), BGI - BGI Real Time PCR (n=7), Bioer Technologies - Bioer SARS-CoV-2 (n=13), DRW - DRW SAMBA II SARS-CoV-2 (n=29), DiaSorin - DiaSorin Simplexa COVID-19 (n=19), Diatheva - Diatheva COVID-19 (n=5), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=13), GenMark Dx - GenMark DX ePlex (n=18), Gold Standard Diagnostics - GSD NovaPrime SARS-CoV-2 (n=7), Kogene Biotech - Kogene Powerchek (n=6), Nonacus - Nonacus VirPath SARS-CoV-2 (n=11), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=10), Sansure Biotech - Sansure Biotech nCoV PCR Kit (n=5), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=96), fast-track DIAGNOSTICS - FTD SARS-CoV-2 (n=11)

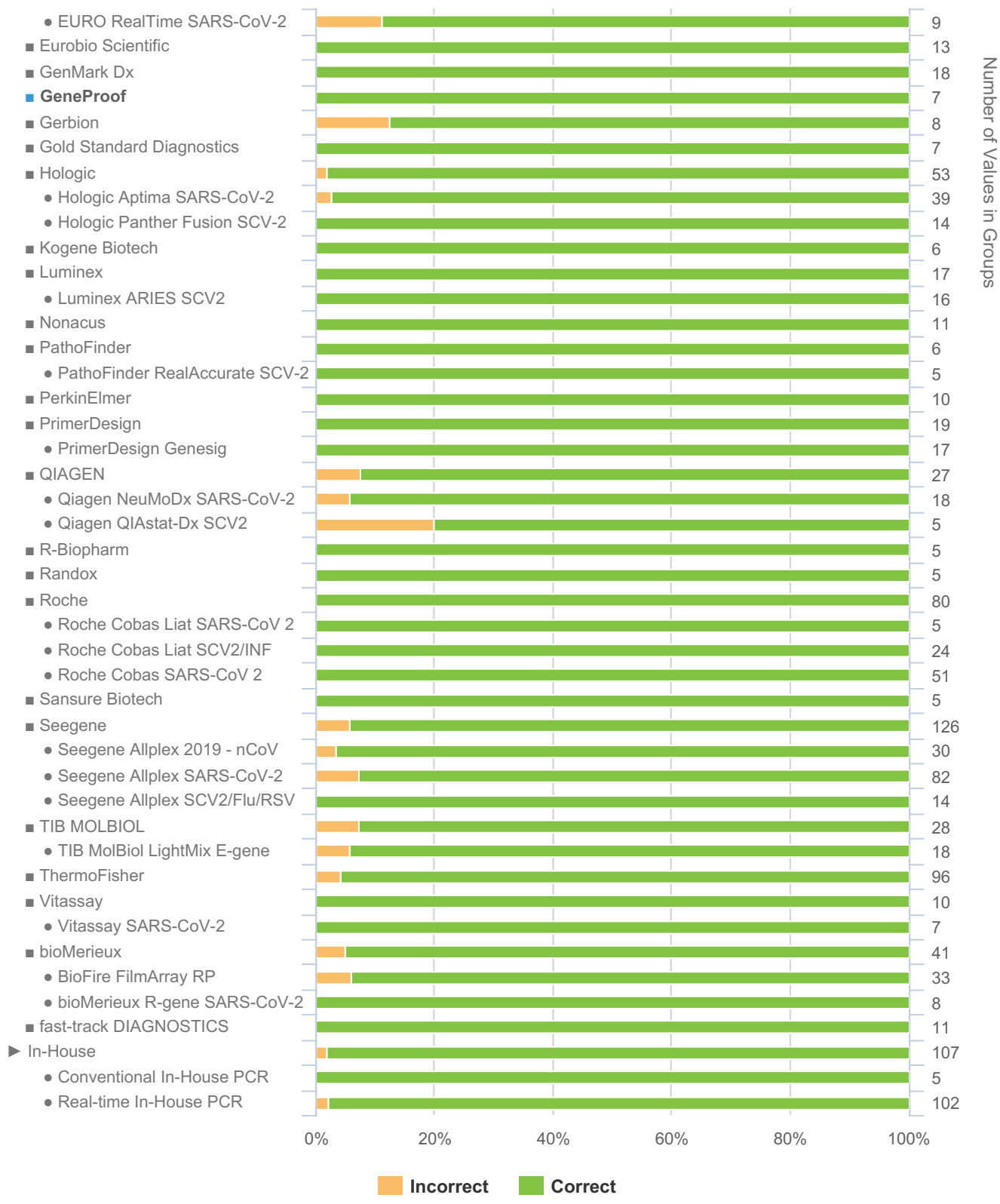
SCV2_21C1B-04 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
SCV2_21C1B-04	SARS-CoV-2 Lineage B.1.1.25	Transport Medium	2.94 dPCR Log10 Copies/ml	Frequently Detected	CORE	97.2	1327





Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1B	Analysis Type: Qualitative	Dataset: 454176	Report UID: 2677/454176/3483	Laboratory: CZ023
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Catalogue Code:	Ref Code:	Challenge:	Analysis Type:	Dataset:	Report UID:	Laboratory
QAV204215	SCV2_21	C1B	Qualitative	454176	2677/454176/3483	CZ023

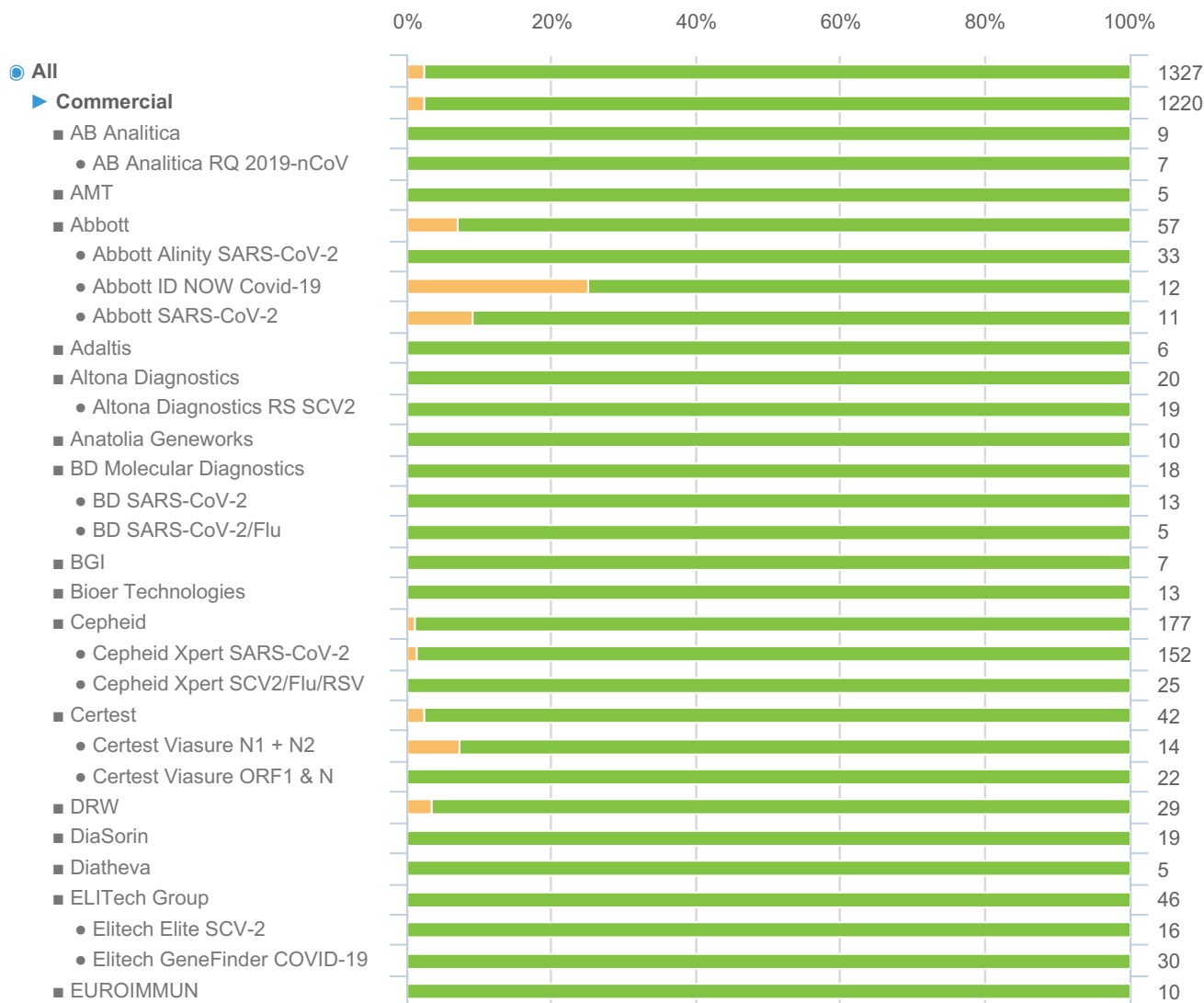
Groups below n=5: 1drop Inc. (n=3), 1drop Inc. - 1drop Inc. 1copy COVID-19 qPCR 4plex (n=3), 3D Med (n=1), 3D Med - 3D Med ANDis SARS-CoV-2 (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), ADT Biotech (n=1), ADT Biotech - ADT Biotech LyteStar 2019-nCoV (n=1), AITbiotech (n=4), AITbiotech - AITbiotech abTES COVID-19 (n=4), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Abbott - Abbott Alinity m Resp 4-Plex (n=1), Advanced Molecular Diagnostics (n=1), Advanced Molecular Diagnostics - AMD Zena Max SARS-CoV-2 (n=1), Altona Diagnostics - Altona Diagnostics AS SCV2 (n=1), Amoy Diagnostics (n=1), Amoy Diagnostics - AmoyDx Novel Coronavirus (n=1), Amplicon (n=2), Amplicon - Amplicon AmpliTest SARS-CoV-2 (n=2), Amsbio (n=1), Amsbio - Amsbio Covid-19 (n=1), Anchor Diagnostics (n=1), Anchor Diagnostics - Anchor Diagnostics SARS CoV-2 (n=1), Astra Biotech (n=1), Astra Biotech - Astra Biotech SARS-CoV-2 (n=1), AusDiagnostics (n=3), AusDiagnostics - AusDiagnostics Respiratory Pathogens C (n=2), AusDiagnostics - AusDiagnostics SARS-CoV-2/Influenza/RSV (n=1), Bio Mol (n=1), Bio Mol - Bio Mol SARS-CoV-2 (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad SARS-CoV-2 (n=1), BioMaxima (n=1), BioMaxima - BioMaxima SARS-Cov-2 (n=1), Biocartis (n=2), Biocartis - Biocartis Idylla SARS-CoV-2 (n=2), Bioeksen (n=2), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=2), Biotline (n=1), Biotline - Biotline SensiFast (n=1), Bioneer (n=2), Bioneer - Bioneer Accupower SARS-CoV-2 (n=2), Bioside (n=1), Bioside - Bioside Qualyfast SARS CoV-2 (n=1), Bosch (n=2), Bosch - Bosch Vivalytic SARS-CoV-2 (n=2), CDC (n=4), CDC - CDC SARS-CoV-2 (n=4), Certest - Certest Viasure S (n=1), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=2), Certest - Certest Viasure SCV2/FLU/RSV (n=3), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Coyote Bioscience (n=4), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=4), Credo Diagnostics Biomedical (n=1), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=1), DAAN GENE (n=4), DAAN GENE - DAAN Gene Covid-19 (n=4), DNA-Technology Russia (n=1), DNA-Technology Russia - DNA-Technology Covid-19 (n=1), DiaCarta (n=1), DiaCarta - DiaCarta QuantiVirus PCR kit (n=1), DiaPro (n=1), DiaPro - DiaPro COVID-19 (n=1), DiagCor (n=1), DiagCor - DiagCor GenoScreen SARS-CoV-2 (n=1), Diagenode (n=3), Diagenode - Diagenode Real-Time PCR (n=3), Dianext (n=1), Dianext - Dianext sensiSCREEN SARS-CoV-2 (n=1), Diatech Pharmacogenetics (n=1), Diatech Pharmacogenetics - Diatech Easy SARS-CoV-2 (n=1), EUROIMMUN - EURO RealTime SARS-CoV-2/ INF (n=1), Easy Diagnosis Biomedicine (n=2), Easy Diagnosis Biomedicine - EasyDiagnosis SARS-CoV-2 (n=2), Eurofins (n=3), Eurofins - Eurofins ViroBOAR (n=3), GenMark (n=1), GenMark - GenMark GeneMAP 2019-nCoV (SARS-CoV-2) (n=1), GeneMe (n=4), GeneMe - GeneMe CoVi19 (n=4), GeneProof - GeneProof Advanced SARS-CoV-2 (n=1), GeneProof - GeneProof SARS-CoV-2 (n=1), GeneProof - GeneProof SARS-CoV-2 South African/UK Diagnostic (n=1), GeneProof - GeneProof SARS-CoV-2 South African/UK/BR Typing (n=1), GeneProof - Geneproof SARS-CoV-2 RdRp Confirmatory (n=1), GeneProof - Geneproof SARS-CoV-2 Screening (n=1), GeneProof - Geneproof SARS-CoV-2 South African/UK Typing (n=1), Genematrix (n=3), Genematrix - Genematrix NeoPlex (n=3), Generon (n=1), Generon - Generon VETfinder (n=1), Genetic PCR solutions (n=1), Genetic PCR solutions - Genetic PCR solutions CoVID-19 (n=1), Genetic Signatures (n=2), Genetic Signatures - Genetic Signatures SARS-CoV-2 (n=2), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gerbion - Gerbion respiraSC2 (n=1), Gerbion - Gerbion respiraSC2-FluA/B (n=1), Gerbion - Gerbion respiraScreen 1 (n=1), Gerbion - Gerbion respiraScreen 2 (n=2), Gerbion - Gerbion virella SARS-CoV-2 (n=3), Grisp Reasearch Solutions (n=1), Grisp Reasearch Solutions - Grisp Xpert One-Step (n=1), Hain Lifescience (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 varID (n=1), HybriBio Limited (n=2), HybriBio Limited - HybriBio Real-Time PCR Kit (n=2), ID-Solutions (n=4), ID-Solutions - ID SARS CoV-2 (n=4), IONTEK (n=1), IONTEK - IONTEK Fluorion nCoV-19 (n=1), ITRI (n=1), ITRI - ITRI SARS-CoV-2 (n=1), Immundiagnostik (n=3), Immundiagnostik - Immundignostik MutaPLEX (n=3), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), Labsystems Diagnostics (n=1), Labsystems Diagnostics - Labsystems Diagnostics Covid-19 (n=1), Liferiver (n=2), Liferiver - Liferiver 2019-nCoV (n=2), Luminex - Luminex xTAG RPP + SCV2 (n=1), Maccura Biotechnology (n=4), Maccura Biotechnology - Maccura SARS-CoV-2 (n=4), Menarini Diagnostics (n=3), Menarini Diagnostics - Menarini SARS-CoV-2 (n=3), Mikrogen (n=1), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=1), Mobidiag (n=4), Mobidiag - Mobidiag Amplidiag COVID-19 (n=3), Mobidiag - Mobidiag Novodiag COVID-19 (n=1), Molbio Diagnostics (n=1), Molbio Diagnostics - Molbio Diagnostics Truenat SCV2 (n=1), MultiplexDX (n=1), MultiplexDX - MultiplexDX rTEST COVID-19 (n=1), New England BioLabs (n=1), New England BioLabs - New Engalnd BioLabs Luna SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PathoFinder - PathoFinder RespiFinder 2SMART (n=1), Phase Scientific (n=2), Phase Scientific - Phase Scientific Covid-19 (n=2), PrimerDesign - PrimerDesign PROMate (n=2), Procomcure Biotech (n=1), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=1), QIAGEN - Qiagen NeuMoD Flu A-B/RSV/SARS-CoV-2 (n=1), QIAGEN - Qiagen QIAprep & amp (n=3), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), R-Biopharm - R-Biopharm RIDA Gene SCV2 (n=4), Randox - Randox COVID-19 qPCR (n=4), Randox - Randox Extended Coronavirus Array (n=1), SIMITECNO (n=1), SIMITECNO - SIMITECNO SARS-CoV-2 (n=1), Sacace (n=4), Sacace - Sacace SARS-CoV-2 (n=4), Savyon Diagnostics (n=2), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 (n=2), Sentebiolab (n=1), Sentebiolab - Sentebiolab Senteligo SARS-CoV-2 (n=1), Serosep (n=3), Serosep - Serosep RespiBio SARS-CoV-2 (n=3), Singuway Biotech Inc (n=1), Singuway Biotech Inc - Singuway Biotech COVID-19 (n=1), Snibe Diagnostic (n=1), Snibe Diagnostic - Snibe Diagnostic SARS-CoV-2 (n=1), SolGent (n=3), SolGent - SolGent DiaPlexQ-nCoV (n=3), TIB MOLBIOL - TIB MOLBIOL VirSNiP (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/N-gene (n=2), TIB MOLBIOL - TIB MolBiol LightMix E/N/RdRP (n=2), TIB MOLBIOL - TIB MolBiol LightMix E/RdRP (n=2), TIB MOLBIOL - TIB MolBiol LightMix RdRP (n=3), Vazyme (n=4), Vazyme - Vazyme SARS-CoV-2 (n=4), Vitassay - Vitassay SARS-CoV-2 + UK Variant (n=1), Vitassay - Vitassay SCV2/Flu (n=1), Vitassay - Vitassay SCV2/Flu/RSV (n=1), XEMA (n=1), XEMA - XEMA Covid-19 (n=1), Yourgene Health (n=3), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=3), ZJ Bio-Tech (n=3), ZJ Bio-Tech - ZJ Bio-Tech RT PCR (n=3)

Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1B	Analysis Type: Qualitative	Dataset: 454176	Report UID: 2677/454176/3483	Laboratory CZ023
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Groups Rolled Up: AMT - AMT Resolute SARS-CoV-2 (n=5), Adaltis - Adaltis MOLgen SARS-CoV-2 (n=6), Anatolia Geneworks - Anatolia Geneworks Bosphore nCoV (n=10), BGI - BGI Real Time PCR (n=7), Bioer Technologies - Bioer SARS-CoV-2 (n=13), DRW - DRW SAMBA II SARS-CoV-2 (n=29), DiaSorin - DiaSorin Simplexa COVID-19 (n=19), Diatheva - Diatheva COVID-19 (n=5), Eurobio Scientific - EurobioPlex SARS-CoV-2 (n=13), GenMark Dx - GenMark DX ePlex (n=18), Gold Standard Diagnostics - GSD NovaPrime SARS-CoV-2 (n=7), Kogene Biotech - Kogene Powerchek (n=6), Nonacus - Nonacus VirPath SARS-CoV-2 (n=11), PerkinElmer - PerkinElmer SARS-CoV-2 Real Time PCR (n=10), Sansure Biotech - Sansure Biotech nCoV PCR Kit (n=5), ThermoFisher - ThermoFisher TaqPath COVID-19 (n=96), fast-track DIAGNOSTICS - FTD SARS-CoV-2 (n=11)

SCV2_21C1B-05 - Qualitative Results Breakdown

Sample Code	Sample Content	Matrix	Sample Relationships	Detection Frequency	Sample Status	Percentage Correct (All)	
						(%)	(n)
SCV2_21C1B-05	SARS-CoV-2 Lineage B.1	Transport Medium	3.15 dPCR Log10 Copies/ml (DS1_2)	Frequently Detected	CORE	97.7	1327

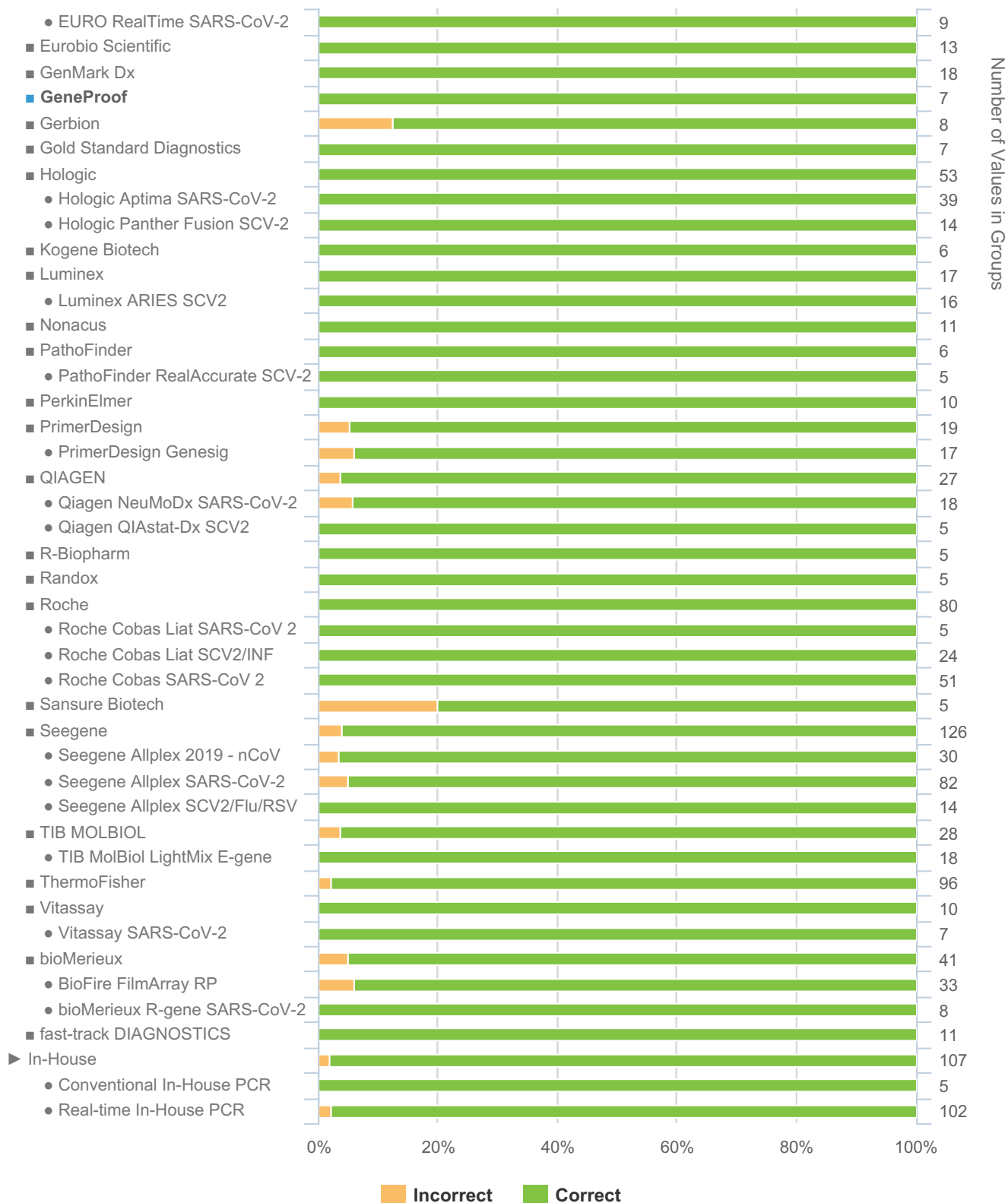


Individual Report

QCMD 2021 SARS-CoV-2 EQA Programme




Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1B	Analysis Type: Qualitative	Dataset: 454176	Report UID: 2677/454176/3483	Laboratory: CZ023
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Catalogue Code:	Ref Code:	Challenge:	Analysis Type:	Dataset:	Report UID:	Laboratory
QAV204215	SCV2_21	C1B	Qualitative	454176	2677/454176/3483	CZ023

Groups below n=5: 1drop Inc. (n=3), 1drop Inc. - 1drop Inc. 1copy COVID-19 qPCR 4plex (n=3), 3D Med (n=1), 3D Med - 3D Med ANDis SARS-CoV-2 (n=1), AB Analytica - AB Analytica RQ ABFlu-CoV-2 (n=2), ADT Biotech (n=1), ADT Biotech - ADT Biotech LyteStar 2019-nCoV (n=1), AITbiotech (n=4), AITbiotech - AITbiotech abTES COVID-19 (n=4), Abacus Diagnostica (n=1), Abacus Diagnostica - Abacus Diagnostica SARS-CoV-2 (n=1), Abbott - Abbott Alinity m Resp 4-Plex (n=1), Advanced Molecular Diagnostics (n=1), Advanced Molecular Diagnostics - AMD Zena Max SARS-CoV-2 (n=1), Altona Diagnostics - Altona Diagnostics AS SCV2 (n=1), Amoy Diagnostics (n=1), Amoy Diagnostics - AmoyDx Novel Coronavirus (n=1), Amplicon (n=2), Amplicon - Amplicon AmpliTest SARS-CoV-2 (n=2), Amsbio (n=1), Amsbio - Amsbio Covid-19 (n=1), Anchor Diagnostics (n=1), Anchor Diagnostics - Anchor Diagnostics SARS CoV-2 (n=1), Astra Biotech (n=1), Astra Biotech - Astra Biotech SARS-CoV-2 (n=1), AusDiagnostics (n=3), AusDiagnostics - AusDiagnostics Respiratory Pathogens C (n=2), AusDiagnostics - AusDiagnostics SARS-CoV-2/Influenza/RSV (n=1), Bio Mol (n=1), Bio Mol - Bio Mol SARS-CoV-2 (n=1), Bio-Rad (n=1), Bio-Rad - Bio-Rad SARS-CoV-2 (n=1), BioMaxima (n=1), BioMaxima - BioMaxima SARS-Cov-2 (n=1), Biocartis (n=2), Biocartis - Biocartis Idylla SARS-CoV-2 (n=2), Bioeksen (n=2), Bioeksen - Bioeksen Biospeedy SARS-CoV-2 (n=2), Biotline (n=1), Biotline - Biotline SensiFast (n=1), Bioneer (n=2), Bioneer - Bioneer Accupower SARS-CoV-2 (n=2), Bioside (n=1), Bioside - Bioside Qualyfast SARS CoV-2 (n=1), Bosch (n=2), Bosch - Bosch Vivalytic SARS-CoV-2 (n=2), CDC (n=4), CDC - CDC SARS-CoV-2 (n=4), Certest - Certest Viasure S (n=1), Certest - Certest Viasure SARS-CoV-2 & UK Variant (S UK, ORF1ab and N genes) (n=2), Certest - Certest Viasure SCV2/FLU/RSV (n=3), Clonit (n=1), Clonit - Clonit COVID-19 HT Screen (n=1), Coyote Bioscience (n=4), Coyote Bioscience - Coyote Bioscience SARS-CoV-2 (n=4), Credo Diagnostics Biomedical (n=1), Credo Diagnostics Biomedical - Credo Diagnostics SARS-CoV-2 (n=1), DAAN GENE (n=4), DAAN GENE - DAAN Gene Covid-19 (n=4), DNA-Technology Russia (n=1), DNA-Technology Russia - DNA-Technology Covid-19 (n=1), DiaCarta (n=1), DiaCarta - DiaCarta QuantiVirus PCR kit (n=1), DiaPro (n=1), DiaPro - DiaPro COVID-19 (n=1), DiagCor (n=1), DiagCor - DiagCor GenoScreen SARS-CoV-2 (n=1), Diagenode (n=3), Diagenode - Diagenode Real-Time PCR (n=3), Dianext (n=1), Dianext - Dianext sensiSCREEN SARS-CoV-2 (n=1), Diatech Pharmacogenetics (n=1), Diatech Pharmacogenetics - Diatech Easy SARS-CoV-2 (n=1), EUROIMMUN - EURO RealTime SARS-CoV-2/ INF (n=1), Easy Diagnosis Biomedicine (n=2), Easy Diagnosis Biomedicine - EasyDiagnosis SARS-CoV-2 (n=2), Eurofins (n=3), Eurofins - Eurofins ViroBOAR (n=3), GenMark (n=1), GenMark - GenMark GeneMAP 2019-nCoV (SARS-CoV-2) (n=1), GeneMe (n=4), GeneMe - GeneMe CoVi19 (n=4), GeneProof - GeneProof Advanced SARS-CoV-2 (n=1), GeneProof - GeneProof SARS-CoV-2 (n=1), GeneProof - GeneProof SARS-CoV-2 South African/UK Diagnostic (n=1), GeneProof - GeneProof SARS-CoV-2 South African/UK/BR Typing (n=1), GeneProof - Geneproof SARS-CoV-2 RdRp Confirmatory (n=1), GeneProof - Geneproof SARS-CoV-2 Screening (n=1), GeneProof - Geneproof SARS-CoV-2 South African/UK Typing (n=1), Genematrix (n=3), Genematrix - Genematrix NeoPlex (n=3), Generon (n=1), Generon - Generon VETfinder (n=1), Genetic PCR solutions (n=1), Genetic PCR solutions - Genetic PCR solutions CoVID-19 (n=1), Genetic Signatures (n=2), Genetic Signatures - Genetic Signatures SARS-CoV-2 (n=2), Genrui Biotech Inc. (n=1), Genrui Biotech Inc. - Genrui Novel Coronavirus Detection Kit (n=1), Gerbion - Gerbion respiraSC2 (n=1), Gerbion - Gerbion respiraSC2-FluA/B (n=1), Gerbion - Gerbion respiraScreen 1 (n=1), Gerbion - Gerbion respiraScreen 2 (n=2), Gerbion - Gerbion virella SARS-CoV-2 (n=3), Grisp Reasearch Solutions (n=1), Grisp Reasearch Solutions - Grisp Xpert One-Step (n=1), Hain Lifescience (n=1), Hain Lifescience - Hain Lifescience SARS-CoV-2 varID (n=1), HybriBio Limited (n=2), HybriBio Limited - HybriBio Real-Time PCR Kit (n=2), ID-Solutions (n=4), ID-Solutions - ID SARS CoV-2 (n=4), IONTEK (n=1), IONTEK - IONTEK Fluorion nCoV-19 (n=1), ITRI (n=1), ITRI - ITRI SARS-CoV-2 (n=1), Immundiagnostik (n=3), Immundiagnostik - Immundignostik MutaPLEX (n=3), Jiangsu Bioperfectus technologies (n=1), Jiangsu Bioperfectus technologies - Jiangsu Bioperfectus technologies COVID-19 (n=1), LGC Biosearch Technologies (n=1), LGC Biosearch Technologies - LGC UltraDx SARS-CoV-2 (n=1), LabSystems Diagnostics (n=1), LabSystems Diagnostics - LabSystems Diagnostics Covid-19 (n=1), Liferiver (n=2), Liferiver - Liferiver 2019-nCoV (n=2), Luminex - Luminex xTAG RPP + SCV2 (n=1), Maccura Biotechnology (n=4), Maccura Biotechnology - Maccura SARS-CoV-2 (n=4), Menarini Diagnostics (n=3), Menarini Diagnostics - Menarini SARS-CoV-2 (n=3), Mikrogen (n=1), Mikrogen - Mikrogen ampliCube Coronavirus/SCV2 (n=1), Mobidiag (n=4), Mobidiag - Mobidiag Amplidiag COVID-19 (n=3), Mobidiag - Mobidiag Novodiag COVID-19 (n=1), Molbio Diagnostics (n=1), Molbio Diagnostics - Molbio Diagnostics Truenat SCV2 (n=1), MultiplexDX (n=1), MultiplexDX - MultiplexDX rTEST COVID-19 (n=1), New England BioLabs (n=1), New England BioLabs - New Engalnd BioLabs Luna SARS-CoV-2 (n=1), Oxford Nanopore (n=1), Oxford Nanopore - Oxford Nanopore LamPORE COVID-19 (n=1), PathoFinder - PathoFinder RespiFinder 2SMART (n=1), Phase Scientific (n=2), Phase Scientific - Phase Scientific Covid-19 (n=2), PrimerDesign - PrimerDesign PROMate (n=2), Procomcure Biotech (n=1), Procomcure Biotech - Procomcure Biotech PhoenixDx SARS-CoV-2 (n=1), QIAGEN - Qiagen NeuMoD Flu A-B/RSV/SARS-CoV-2 (n=1), QIAGEN - Qiagen QIAprep & amp (n=3), R-Biopharm - R-Biopharm RIDA Gene FLU & SARS (n=1), R-Biopharm - R-Biopharm RIDA Gene SCV2 (n=4), Randox - Randox COVID-19 qPCR (n=4), Randox - Randox Extended Coronavirus Array (n=1), SIMITECNO (n=1), SIMITECNO - SIMITECNO SARS-CoV-2 (n=1), Sacace (n=4), Sacace - Sacace SARS-CoV-2 (n=4), Savyon Diagnostics (n=2), Savyon Diagnostics - Savyon Savvygen SARS-CoV-2 (n=2), Sentebiolab (n=1), Sentebiolab - Sentebiolab Senteligo SARS-CoV-2 (n=1), Serosep (n=3), Serosep - Serosep RespiBio SARS-CoV-2 (n=3), Singuway Biotech Inc (n=1), Singuway Biotech Inc - Singuway Biotech COVID-19 (n=1), Snibe Diagnostic (n=1), Snibe Diagnostic - Snibe Diagnostic SARS-CoV-2 (n=1), SolGent (n=3), SolGent - SolGent DiaPlexQ-nCoV (n=3), TIB MOLBIOL - TIB MOLBIOL VirSNiP (n=1), TIB MOLBIOL - TIB MolBiol LightMix E/N-gene (n=2), TIB MOLBIOL - TIB MolBiol LightMix E/N/RdRP (n=2), TIB MOLBIOL - TIB MolBiol LightMix E/RdRP (n=2), TIB MOLBIOL - TIB MolBiol LightMix RdRP (n=3), Vazyme (n=4), Vazyme - Vazyme SARS-CoV-2 (n=4), Vitassay - Vitassay SARS-CoV-2 + UK Variant (n=1), Vitassay - Vitassay SCV2/Flu (n=1), Vitassay - Vitassay SCV2/Flu/RSV (n=1), XEMA (n=1), XEMA - XEMA Covid-19 (n=1), Yourgene Health (n=3), Yourgene Health - Yourgene Health Clarigene SARS-CoV-2 (n=3), ZJ Bio-Tech (n=3), ZJ Bio-Tech - ZJ Bio-Tech RT PCR (n=3)

Individual Report		QCMD 2021 SARS-CoV-2 EQA Programme				 <small>Quality Control for Molecular Diagnostics</small>	
Catalogue Code: QAV204215	Ref Code: SCV2_21	Challenge: C1B	Analysis Type: Qualitative	Dataset: 454176	Report UID: 2677/454176/3483	Laboratory CZ023	

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