

Listing and evaluation of the results

1: Dr. med.Max Mustermann
Laboratory Mustermann

Survey of 19 March 2021

Adviser:

100

Clinical Chemistry - Conventional Analysis

Analyte	Sample	Unit	Your value	Target value	TV-Type	Lower limit	Upper limit	Deviation	Z-Score	Meets criteria	
AP	21	U/l	394	400	SV	328	472	-1.5%	-0,314	+	
	22		81.0	82.2	SV	67.4	97.0	-1.5%	-0,332	+	
Acid Phosphatase	21	U/l	58.5	46.9	SV	31.4	62.4	24.7%	0,8	+	
	22		5.78	5.74	SV	3.85	7.63	0.7%	0,075	+	
Albumin	21	g/dl	2.67	2.80	SV	2.24	3.36	-4.6%	-0,922	+	
	22		4.54	4.56	SV	3.65	5.47	-0.4%	-0,109	+	
Albumin (Electrophoresis)	21	%	65.8	63.5	SV	54.6	72.4	3.6%	0,669	+	
	22		62.4	63.9	SV	55.0	72.8	-2.3%	-0,384	+	
Bilirubin	21	mg/dl	4.10	4.16	SV	3.24	5.08	-1.4%	-0,455	+	
	22		0.890	0.901	SV	0.703	1.10	-1.2%	-0,423	+	
Bilirubin conj.	21	mg/dl	1.50	1.57	SV	1.00	2.14	-4.5%	-0,609	+	
	22		0.370	0.372	SV	0.238	0.506	-0.5%	-0,077	+	
CHE	21	U/l	3894	4038	SV	3311	4765	-3.6%	-1,08	+	
	22		7466	7659	SV	6280	9038	-2.5%	-0,919	+	
CK	21	U/l	441	463	RMV	370	556	-4.8%	-1,88	+	
	22		105	107	RMV	85.6	128	-1.9%	-0,252	+	
Calcium	21	mmol/l	3.01	3.03	RMV	2.73	3.33	-0.7%	-0,267	+	
	22		2.17	2.18	RMV	1.96	2.40	-0.5%	-0,156	+	
Chloride	21	mmol/l	83.9	85.0	RMV	78.2	91.8	-1.3%	-0,701	+	
	22		115	112	MW	103	121	2.7%	1,27	+	
Cholesterol	21	mg/dl	94.2	104	RMV	90.5	118	-9.4%	-2,09	+	
	22		142	152	RMV	132	172	-6.6%	-1,43	+	
Creatinine	21	mg/dl	5.29	5.38	RMV	4.30	6.46	-1.7%	-0,38	+	
	22		1.00	0.916	RMV	0.733	1.10	9.2%	1,06	+	
GGT	21	U/l	185	189	RMV	149	229	-2.1%	-0,645	+	
	22		37.0	39.1	RMV	30.9	47.3	-5.4%	-1,47	+	
GLDH	21	U/l	15.1	15.0	SV	10.5	19.5	0.7%	0,35	+	
	22		6.10	6.08	SV	4.26	7.90	0.3%	0,035	+	
GOT	21	U/l	214	214	RMV	169	259	0.0%	0	+	
	22		33.3	41.6	RMV	32.9	50.3	-20.0%	-2,92	+	
GPT	21	U/l	90.8	94.1	RMV	74.3	114	-3.5%	-0,897	+	
	22		37.1	40.3	RMV	31.8	48.8	-7.9%	-1,38	+	
Glucose	21	mg/dl	275	272	RMV	231	313	1.1%	0,322	+	
	22		72.9	76.2	RMV	64.8	87.6	-4.3%	-1,13	+	
HBDH	21	U/l	368	360	SV	284	436	2.2%	0,237	+	
	22		116	114	SV	90.1	138	1.8%	0,148	+	
IgA	21	mg/dl	110	118	SV	94.4	142	-6.8%	-1,19	+	
	22		196	204	SV	163	245	-3.9%	-0,938	+	
IgG	21	mg/dl	537	556	SV	456	656	-3.4%	-1,04	+	
	22		1107	1103	SV	904	1302	0.4%	0,149	+	
IgM	21	mg/dl	37.3	40.2	SV	29.7	50.7	-7.2%	-1,22	+	
	22		102	101	SV	74.7	127	1.0%	0,293	+	
Iron	21	µmol/l	13.3	13.7	SV	11.8	15.6	-2.6%	-0,583	+	
	22		18.3	18.8	SV	16.2	21.4	-2.8%	-0,775	+	
LDH	21	U/l	375	378	RMV	310	446	-0.8%	-0,214	+	
	22		139	143	RMV	117	169	-2.8%	-0,734	+	
Lactate	21	mmol/l	1.37	1.32	SV	1.08	1.56	3.4%	0,697	+	
	22		2.05	2.04	SV	1.67	2.41	0.7%	0,178	+	

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Analyte	Sample	Unit	Your value	Target value	TV-Type	Lower limit	Upper limit	Deviation	Z-Score	Meets criteria	
Lipase	21	U/l	68.0	65.5	SV	49.1	81.9	3.8%	0,94	+	
	22		53.4	51.2	SV	38.4	64.0	4.3%	1,11	+	
Lithium	21	mmol/l	1.60	1.75	RMV	1.54	1.96	-8.6%	-2,14	+	
	22		0.780	0.819	RMV	0.721	0.917	-4.8%	-0,813	+	
Magnesium	21	mmol/l	1.77	1.84	RMV	1.56	2.12	-3.8%	-1,37	+	
	22		0.880	0.884	RMV	0.751	1.02	-0.5%	-0,138	+	
Osmolality	21	mOsmol/kg	494	489	SV	430	548	1.0%	0,751	+	
	22		286	294	SV	259	329	-2.7%	-0,821	+	
Pancreas Amylase	21	U/l	324	327	SV	229	425	-0.9%	-0,454	+	
	22		47.1	47.9	SV	33.5	62.3	-1.7%	-0,537	+	
Phosphate	21	mmol/l	2.32	2.40	SV	2.02	2.78	-3.3%	-1,23	+	
	22		1.00	1.03	SV	0.865	1.19	-2.9%	-0,938	+	
Potassium	21	mmol/l	6.26	6.29	RMV	5.79	6.79	-0.5%	-0,27	+	
	22		3.94	3.90	RMV	3.59	4.21	1.0%	0,526	+	
Protein	21	g/dl	4.04	4.31	RMV	3.88	4.74	-6.3%	-1,49	+	
	22		6.96	7.13	RMV	6.42	7.84	-2.4%	-0,752	+	
Sodium	21	mmol/l	127	129	RMV	123	135	-1.6%	-1,16	+	
	22		139	139	RMV	132	146	0.0%	0	+	
Transferrine	21	mg/dl	172	176	SV	155	197	-2.3%	-0,723	+	
	22		289	297	SV	261	333	-2.7%	-0,777	+	
Triglycerides	21	mg/dl	96.8	93.9	RMV	78.9	109	3.1%	0,618	+	
	22		102	101	RMV	84.8	117	1.0%	0,217	+	
Urea	21	mg/dl	100	101	RMV	80.8	121	-1.0%	-0,249	+	
	22		27.3	28.1	RMV	22.5	33.7	-2.8%	-0,593	+	
Uric Acid	21	mg/dl	9.20	9.60	RMV	8.35	10.8	-4.2%	-1,25	+	
	22		4.90	5.19	RMV	4.52	5.86	-5.6%	-1,58	+	
alpha-Amylase	21	U/l	359	360	SV	252	468	-0.3%	-0,135	+	
	22		95.0	97.0	SV	67.9	126	-2.1%	-1,01	+	
gamma-Globulins (Electrophoresis)	21	%	11.6	11.2	SV	7.62	14.8	3.6%	0,263	+	
	22		13.5	13.1	SV	8.91	17.3	3.1%	0,172	+	



Listing and evaluation of the results

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Survey of 19 March 2021

Analyte	Sample	Your unit	Stated value	Conversion factor	Method	Manufacturer	Device
AP	21		394	1.00	11	RO	RO71
	22		81.0	1.00			
Acid Phosphatase	21		58.5	1.00	50	RO	RO56
	22		5.78	1.00			
Albumin	21		2.67	1.00	29	RO	RO71
	22		4.54	1.00			
Albumin (Electrophoresis)	21		65.8	1.00			
	22		62.4	1.00			
Bilirubin	21		4.10	1.00	38	RO	RO71
	22		0.890	1.00			
Bilirubin conj.	21		1.50	1.00	38	RO	RO71
	22		0.370	1.00			
CHE	21		3894	1.00	104	RO	RO71
	22		7466	1.00			
CK	21		441	1.00	60	RO	RO71
	22		105	1.00			
Calcium	21		3.01	1.00	312	RO	RO71
	22		2.17	1.00			
Chloride	21		83.9	1.00	71	RO	RO71
	22		115	1.00			
Cholesterol	21		94.2	1.00	33	RO	RO71
	22		142	1.00			
Creatinine	21		5.29	1.00	74	RO	RO71
	22		1.00	1.00			
GGT	21		185	1.00	60	RO	RO71
	22		37.0	1.00			
GLDH	21		15.1	1.00	80	RO	RO71
	22		6.10	1.00			
GOT	21		214	1.00	2	RO	RO71
	22		33.3	1.00			
GPT	21		90.8	1.00	2	RO	RO71
	22		37.1	1.00			
Glucose	21		275	1.00	58	RO	RO71
	22		72.9	1.00			
HBDH	21		368	1.00	102	RO	RO56
	22		116	1.00			
IgA	21		110	1.00	110	RO	RO71
	22		196	1.00			
IgG	21		537	1.00	110	RO	RO71
	22		1107	1.00			
IgM	21		37.3	1.00	110	RO	RO71
	22		102	1.00			
Iron	21	µg/dl	74.5	0.179	51	RO	RO71
	22		102	0.179			
LDH	21		375	1.00	60	RO	RO71
	22		139	1.00			
Lactate	21	mg/dl	12.3	0.111	43	RO	RO56
	22		18.5	0.111			
Lipase	21		68.0	1.00	45	RO	RO71
	22		53.4	1.00			
Lithium	21	mmol/l	1.60	1.00	13		ZY99
	22		0.780	1.00			
Magnesium	21		1.77	1.00	128	RO	RO71
	22		0.880	1.00			
Osmolality	21		494	1.00	53	ZY	MB99
	22		286	1.00			



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Analyte	Sample	Your unit	Stated value	Conversion factor	Method	Manufacturer	Device
Pancreas Amylase	21		324	1.00	90	RO	RO56
	22		47.1	1.00			
Phosphate	21		2.32	1.00	7	RO	RO71
	22		1.00	1.00			
Potassium	21		6.26	1.00	71	RO	RO71
	22		3.94	1.00			
Protein	21		4.04	1.00	28	RO	RO71
	22		6.96	1.00			
Sodium	21		127	1.00	71	RO	RO71
	22		139	1.00			
Transferrine	21		172	1.00	112	RO	RO71
	22		289	1.00			
Triglycerides	21		96.8	1.00	78	RO	RO71
	22		102	1.00			
Urea	21		100	1.00	117	RO	RO71
	22		27.3	1.00			
Uric Acid	21		9.20	1.00	124	RO	RO71
	22		4.90	1.00			
alpha-Amylase	21		359	1.00	48	RO	RO71
	22		95.0	1.00			
gamma-Globulins (Electrophoresis)	21		11.6	1.00			
	22		13.5	1.00			

Individual summary of results

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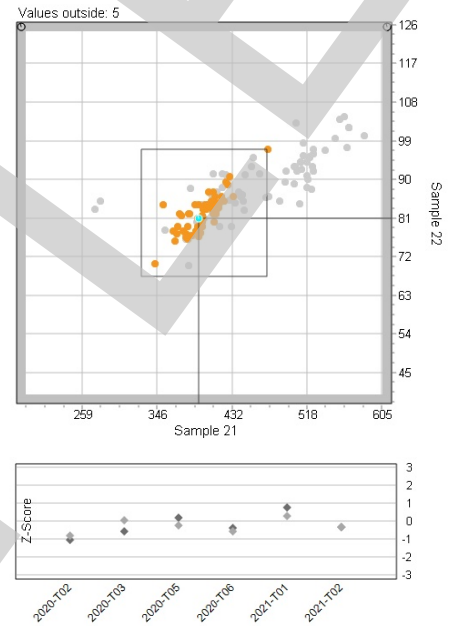
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Clinical Chemistry - Conventional Analysis

AP (U/l, N = 142)										
Collective	Sample	Target value	Target range	Participants collective			Rate (%)			
				AVG	CV	Num.	Sam.	total		
Abbott	21	445	365 - 525	445	3.55	11	100	100		
	22	87.4	71.7 - 103	87.4	7.60	11	100			
BE (OL) AU-System / other	21	524	430 - 618	524	4.77	31	100	100		
	22	94.2	77.2 - 111	94.2	5.72	31	100			
Siemens (Bayer Health)	21	396	325 - 467	396	4.24	9	77.8	77.8		
	22	79.9	65.5 - 94.3	79.9	8.55	9	77.8			
Siemens (Dade Behring)	21	417	342 - 492	417	2.71	17	100	100		
	22	86.7	71.1 - 102	86.7	4.57	17	100			
Ortho (Vitros) (1)	21	277	227 - 327	277	1.74	2				
	22	84.0	68.9 - 99.1	84.0	1.81	2				
Roche	21	400	328 - 472	400	4.78	63	98.4	98.4		
	22	82.2	67.4 - 97.0	82.2	4.39	63	100			
other providers / methods	21	517	424 - 610	517	27.3	9	44.4	22.2		
	22	104	85.3 - 123	104	30.6	9	33.3			

(1) In individual cases is a statistically valid valuation with consensus value not given, because size of the collective < 8 values.

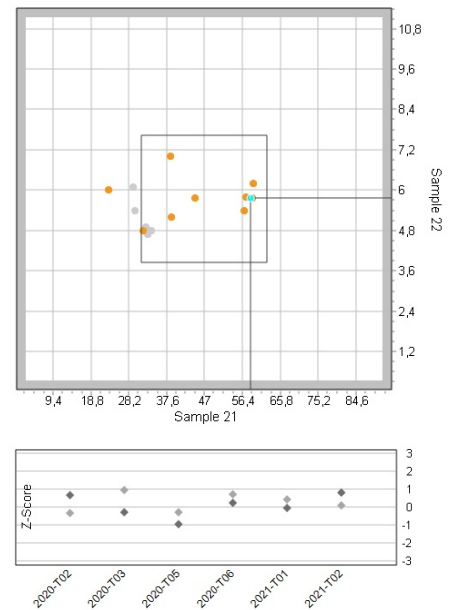
Rate of success: 93%



Acid Phosphatase (U/l, N = 15)										
Collective	Sample	Target value	Target range	Participants collective			Rate (%)			
				AVG	CV	Num.	Sam.	total		
Beckman - AU-Systems (1)	21	31.6	21.2 - 42.0	31.6	7.09	5				
	22	5.18	3.47 - 6.89	5.18	12.8	5				
all providers	21	46.9	31.4 - 62.4	46.9	30.9	10	90.0	90.0		
	22	5.74	3.85 - 7.63	5.74	9.25	10	100			

(1) In individual cases is a statistically valid valuation with consensus value not given, because size of the collective < 8 values.

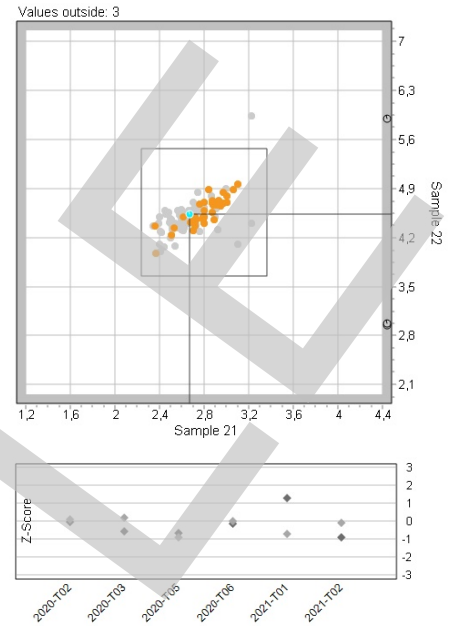
Rate of success: 93,3%



Albumin (g/dl, N = 115)										
Collective	Sample	Target value	Target range	Participants collective			Rate (%)			
				AVG	CV	Num.	Sam.	total		
Abbott	21	2.66	2.13 - 3.19	2.66	2.52	11	100	100		
	22	4.50	3.60 - 5.40	4.50	1.58	11	100			
Beckman (Olympus)	21	2.59	2.07 - 3.11	2.59	3.75	21	100	100		
	22	4.38	3.50 - 5.26	4.38	3.70	21	100			
Siemens (Bayer Health)	(1) 21	2.70	2.16 - 3.24	2.70	7.59	7				
	22	4.52	3.62 - 5.42	4.52	6.46	7				
Siemens (Dade Behring)	21	2.60	2.08 - 3.12	2.60	5.96	20	95.0	95.0		
	22	4.49	3.59 - 5.39	4.49	3.50	20	95.0			
Roche (immunological method)	21	2.56	2.05 - 3.07	2.56	6.48	9	100	100		
	22	4.45	3.56 - 5.34	4.45	3.35	9	100			
Roche	21	2.80	2.24 - 3.36	2.80	5.04	39	100	100		
	22	4.56	3.65 - 5.47	4.56	4.01	39	100			
other providers	21	3.01	2.41 - 3.61	3.01	8.44	8	87.5	87.5		
	22	4.57	3.66 - 5.48	4.57	8.53	8	87.5			

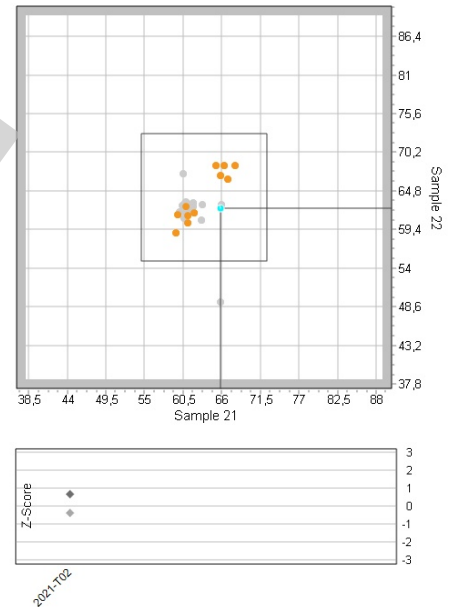
(1) In individual cases is a statistically valid valuation with consensus value not given, because size of the collective < 8 values.

Rate of success: 96,5%



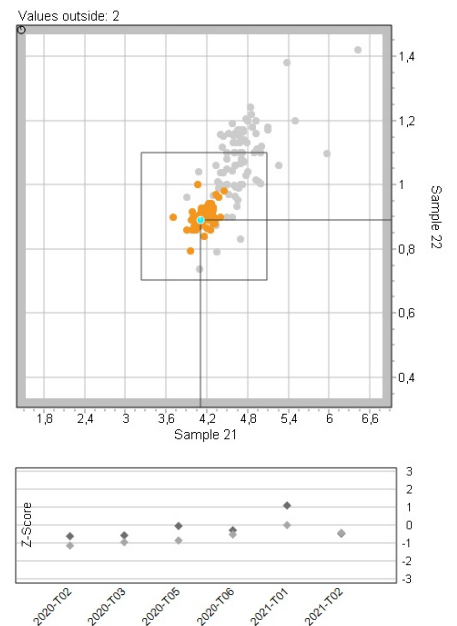
Albumin (Electrophoresis) (% , N = 35)										
Collective	Sample	Target value	Target range	Participants collective			Rate (%)			
				AVG	CV	Num.	Sam.	total		
Capillary Zone Electrophoresis	21	61.3	52.7 - 69.9	61.3	1.43	23	100	95.7		
	22	62.3	53.6 - 71.0	62.3	1.52	23	95.7			
other methods	21	63.5	54.6 - 72.4	63.5	5.42	12	100	100		
	22	63.9	55.0 - 72.8	63.9	6.12	12	100			

Rate of success: 97,1%



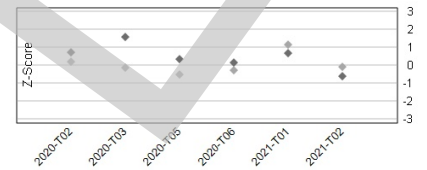
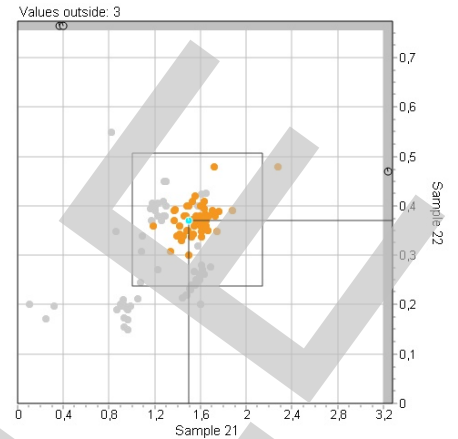
Bilirubin (mg/dl, N = 148)										
Collective	Sample	Target value	Target range	Participants collective			Rate (%)			
				AVG	CV	Num.	Sam.	total		
Abbott	21	4.67	3.64 - 5.70	4.67	6.17	12	100	100		
	22	1.09	0.850 - 1.33	1.09	6.97	12	100			
Beckman (Olympus) AU-System	21	4.68	3.65 - 5.71	4.68	2.80	30	100	100		
	22	1.15	0.897 - 1.40	1.15	3.83	30	100			
Siemens (Bayer Health)	21	4.73	3.69 - 5.77	4.73	9.49	9	77.8	77.8		
	22	1.18	0.920 - 1.44	1.18	17.6	9	77.8			
Siemens (Dade Behring)	21	4.59	3.58 - 5.60	4.59	2.33	17	100	100		
	22	0.968	0.755 - 1.18	0.968	6.40	17	100			
Roche	21	4.16	3.24 - 5.08	4.16	3.17	64	100	100		
	22	0.901	0.703 - 1.10	0.901	2.89	64	100			
other providers	21	4.67	3.64 - 5.70	4.67	10.2	16	87.5	68.8		
	22	1.07	0.835 - 1.31	1.07	10.9	16	75.0			

Rate of success: 95,3%



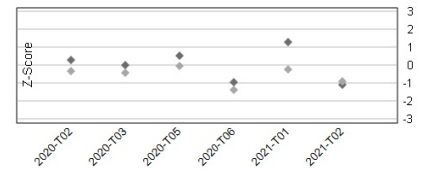
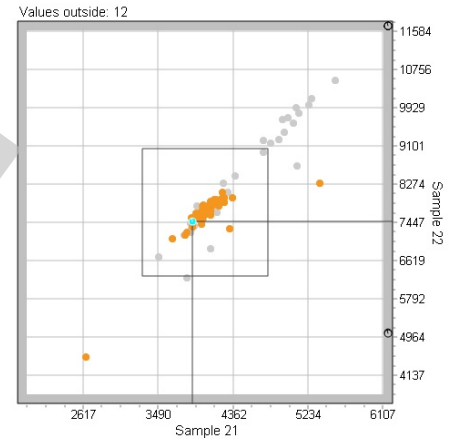
Bilirubin conj. (mg/dl, N = 118)									
Collective	Sample	Target value	Target range	Participants collective			Rate (%)		
				AVG	CV	Num.	Sam.	total	
Abbott	21	1.23	0.787 - 1.67	1.23	5.45	10	90.0	90.0	
	22	0.394	0.252 - 0.536	0.394	4.82	10	100		
Beckman (Olympus) AU-System	21	1.56	0.998 - 2.12	1.56	4.36	22	100	90.9	
	22	0.249	0.159 - 0.339	0.249	12.4	22	90.9		
Siemens (Dade Behring)	21	0.938	0.600 - 1.28	0.938	5.54	14	92.9	92.9	
	22	0.191	0.122 - 0.260	0.191	12.0	14	100		
Roche	21	1.57	1.00 - 2.14	1.57	7.32	54	98.1	98.1	
	22	0.372	0.238 - 0.506	0.372	6.99	54	100		
other providers	21	1.21	0.774 - 1.65	1.21	29.2	18	77.8	66.7	
	22	0.345	0.221 - 0.469	0.345	34.5	18	66.7		

Rate of success: 90,7%

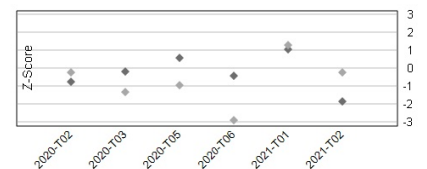
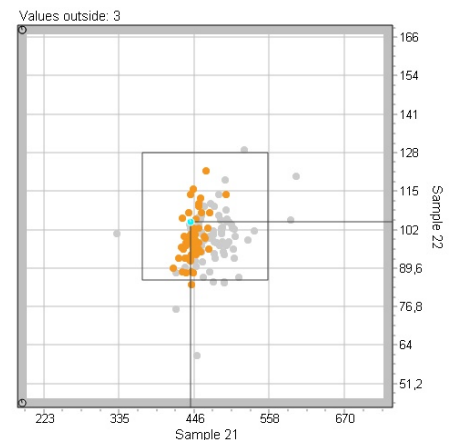


CHE (U/l, N = 105)									
Collective	Sample	Target value	Target range	Participants collective			Rate (%)		
				AVG	CV	Num.	Sam.	total	
Abbott	21	4923	4037 - 5809	4923	7.92	9	100	100	
	22	9422	7726 - 11118	9422	8.07	9	100		
Siemens (Bayer Health)	21	5039	4132 - 5946	5039	3.41	9	77.8	77.8	
	22	9407	7714 - 11100	9407	7.21	9	77.8		
Siemens (Dade Behring)	21	7424	6088 - 8760	7424	2.56	10	100	100	
	22	12905	10582 - 15228	12905	3.17	10	100		
Olympus	21	4007	3286 - 4728	4007	3.67	14	100	100	
	22	7593	6226 - 8960	7593	4.28	14	100		
Roche	21	4038	3311 - 4765	4038	3.29	55	96.4	96.4	
	22	7659	6280 - 9038	7659	2.74	55	98.2		
other providers	21	3984	3267 - 4701	3984	6.12	8	100	100	
	22	7293	5980 - 8606	7293	9.72	8	100		

Rate of success: 96,2%



CK (U/l, N = 136)									
Collective	Sample	Target value	Target range	Participants collective			Rate (%)		
				AVG	CV	Num.	Sam.	total	
Abbott (RMV)	21	463	370 - 556	483	2.42	9	100	88.9	
	22	107	85.6 - 128	101	4.28	9	88.9		
Beckmann (Olympus)	21	463	370 - 556	492	3.21	31	100	87.1	
	22	107	85.6 - 128	97.8	5.95	31	87.1		
Siemens (Bayer Health) (RMV)	21	463	370 - 556	453	11.3	9	77.8	77.8	
	22	107	85.6 - 128	109	20.7	9	77.8		
Siemens (Dade Behring) (RMV)	21	463	370 - 556	447	1.81	15	100	100	
	22	107	85.6 - 128	97.5	6.07	15	100		
Ortho (Vitros)	21	463	370 - 556	331	0.000	1	0.000	0.000	
	22	107	85.6 - 128	101	0.000	1	100		
Roche - Integra (RMV)	21	463	370 - 556	447	2.93	8	100	100	
	22	107	85.6 - 128	103	8.05	8	100		
Roche - other devices (RMV)	21	463	370 - 556	445	2.63	53	100	98.1	
	22	107	85.6 - 128	99.3	7.99	53	98.1		



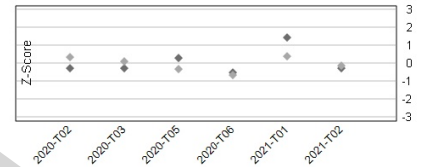
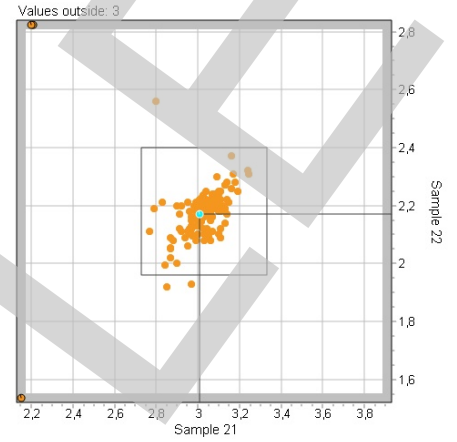


Collective	Sam-ple	Target value	Target range	Participants collective			Rate (%)	
				AVG	CV	Num.	Sam.	total
other provider (RMV)	21	463	370 - 556	486	16.2	10	70.0	60.0
	22	107	85.6 - 128	101	18.3	10	80.0	

Rate of success: 90,4%

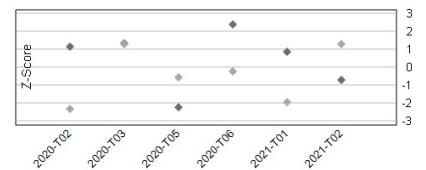
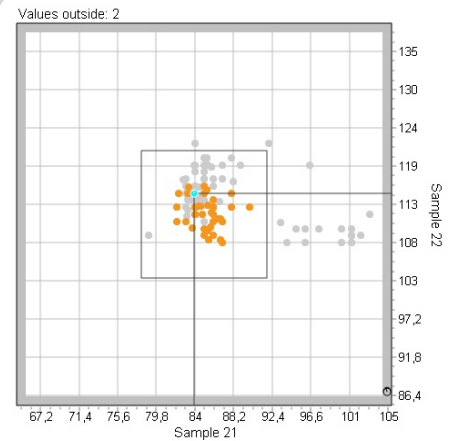
Calcium (mmol/l, N = 150)									
Collective	Sam-ple	Target value	Target range	Participants collective			Rate (%)		
				AVG	CV	Num.	Sam.	total	
RMV	21	3.03	2.73 - 3.33	3.03	2.48	150	98.0	96.0	
	22	2.18	1.96 - 2.40	2.18	2.94	150	96.0		

Rate of success: 96%



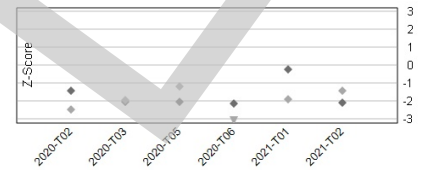
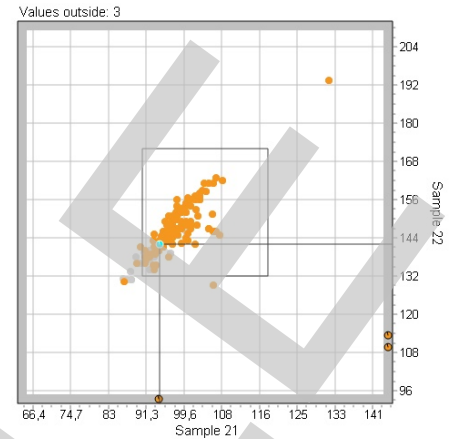
Chloride (mmol/l, N = 118)									
Collective	Sam-ple	Target value	Target range	Participants collective			Rate (%)		
				AVG	CV	Num.	Sam.	total	
Siemens (Dade Behring) Dimension+	21	98.8	90.9 - 107	98.8	3.61	15	100	100	
	22	109	100 - 118	109	1.17	15	100		
Roche - without Integra	21	85.0	78.2 - 91.8	85.1	1.84	41	100	100	
	22	112	103 - 121	112	2.12	41	100		
Roche - Integra System	21	85.0	78.2 - 91.8	86.4	0.649	2	100	100	
	22	120	110 - 130	114	0.000	2	100		
other providers (RMV)	21	85.0	78.2 - 91.8	84.5	1.60	60	93.3	91.7	
	22	120	110 - 130	116	2.34	60	95.0		

Rate of success: 95,8%



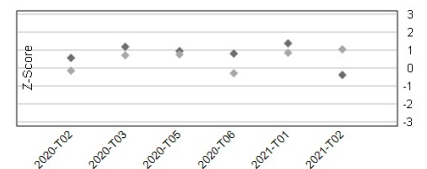
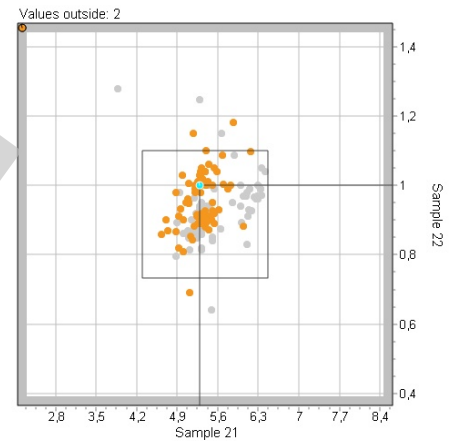
Cholesterol (mg/dl, N = 142)										
Collective	Sample	Target value	Target range			Participants collective			Rate (%)	
						AVG	CV	Num.	Sam.	total
Siemens (Dade Behring)	21	91.5	79.6	-	103	91.5	4.27	16	100	100
	22	136	118	-	154	136	2.94	16	100	
other providers (RMV)	21	104	90.5	-	118	98.1	4.77	126	95.2	94.4
	22	152	132	-	172	147	4.77	126	96.0	

Rate of success: 95,1%



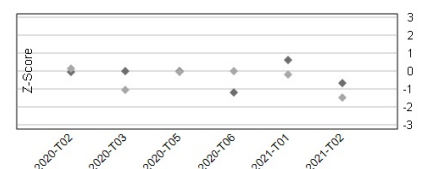
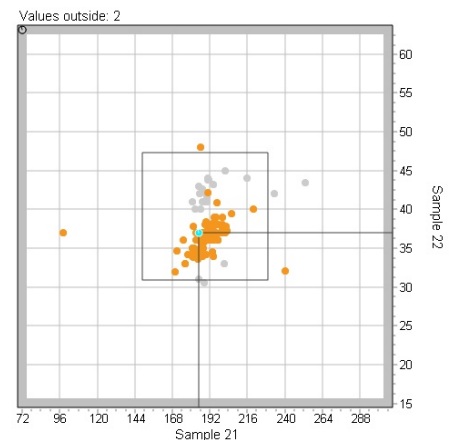
Creatinine (mg/dl, N = 156)										
Collective	Sample	Target value	Target range			Participants collective			Rate (%)	
						AVG	CV	Num.	Sam.	total
Abbott - Jaffe kinetic	21	5.38	4.30	-	6.46	6.06	2.79	6	100	100
	22	0.916	0.733	-	1.10	0.973	2.88	6	100	
Siemens (Dade Behring) - Jaffe-methods	21	5.38	4.30	-	6.46	6.21	2.40	17	100	100
	22	0.916	0.733	-	1.10	0.968	5.89	17	100	
Olympus AU system - enzymatic	21	5.38	4.30	-	6.46	5.45	0.440	3	100	100
	22	0.916	0.733	-	1.10	0.940	0.000	3	100	
Ortho (Vitros)	21	5.38	4.30	-	6.46	5.16	5.35	3	100	100
	22	0.916	0.733	-	1.10	0.896	10.8	3	100	
other devices Jaffe-methods	21	5.38	4.30	-	6.46	5.30	4.47	83	97.6	94.0
	22	0.916	0.733	-	1.10	0.954	8.28	83	94.0	
other methods (RMV)	21	5.38	4.30	-	6.46	5.30	2.96	44	100	97.7
	22	0.916	0.733	-	1.10	0.893	5.60	44	97.7	

Rate of success: 96,2%



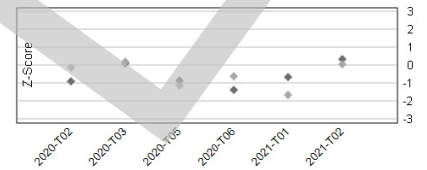
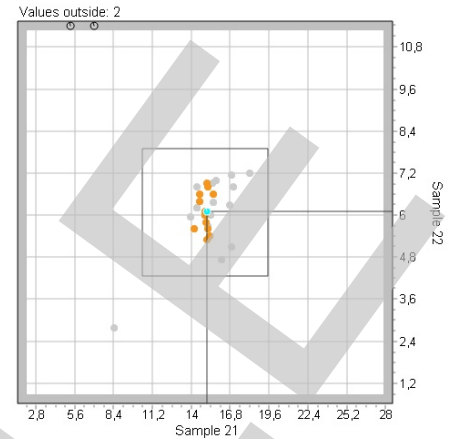
GGT (U/l, N = 149)										
Collective	Sample	Target value	Target range			Participants collective			Rate (%)	
						AVG	CV	Num.	Sam.	total
Ortho (Vitros)	21	189	149	-	229	234	8.97	3	33.3	33.3
	22	39.1	30.9	-	47.3	43.1	2.69	3	100	
Siemens (Bayer Health)	21	189	149	-	229	187	1.28	8	75.0	62.5
	22	39.1	30.9	-	47.3	33.6	8.48	8	62.5	
Siemens (Dade Behring)	21	189	149	-	229	189	2.18	16	100	100
	22	39.1	30.9	-	47.3	42.2	3.93	16	100	
other providers (RMV)	21	189	149	-	229	190	3.26	122	98.4	97.5
	22	39.1	30.9	-	47.3	36.3	3.94	122	99.2	

Rate of success: 94,6%



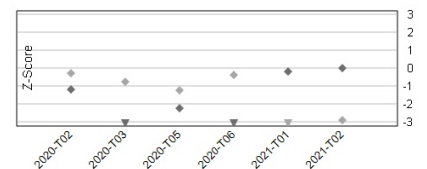
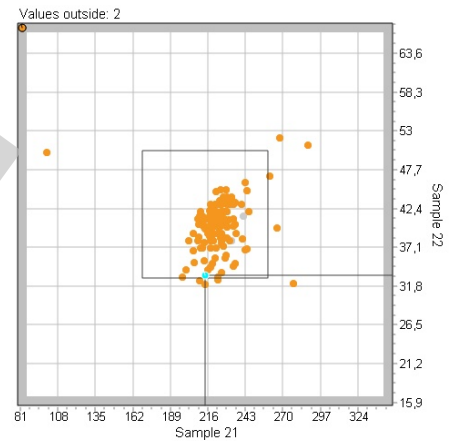
GLDH (U/l, N = 34)										
Collective	Sample	Target value	Target range			Participants collective			Rate (%)	
						AVG	CV	Num.	Sam.	total
Roche	21	15.0	10.5	-	19.5	15.0	1.91	15	100	100
	22	6.08	4.26	-	7.90	6.08	9.29	15	100	
other providers	21	15.6	10.9	-	20.3	15.6	8.72	19	84.2	84.2
	22	6.21	4.35	-	8.07	6.21	13.2	19	84.2	

Rate of success: 91,2%



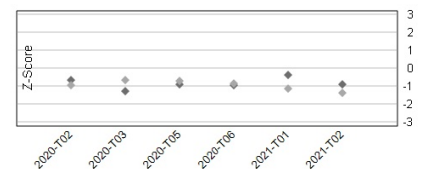
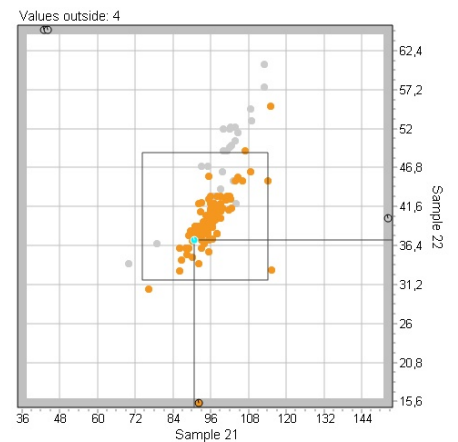
GOT (U/l, N = 146)										
Collective	Sample	Target value	Target range			Participants collective			Rate (%)	
						AVG	CV	Num.	Sam.	total
Ortho (Vitros) (RMV)	21	214	169	-	259	237	2.70	2	100	100
	22	41.6	32.9	-	50.3	39.7	6.88	2	100	
other providers (RMV)	21	214	169	-	259	222	3.96	144	95.1	93.1
	22	41.6	32.9	-	50.3	40.2	7.06	144	95.1	

Rate of success: 93,2%



GPT (U/l, N = 149)										
Collective	Sample	Target value	Target range			Participants collective			Rate (%)	
						AVG	CV	Num.	Sam.	total
Siemens (Bayer Health)	21	94.1	74.3	-	114	95.2	10.9	9	77.8	77.8
	22	40.3	31.8	-	48.8	46.1	12.6	9	77.8	
Siemens (Dade Behring)	21	94.1	74.3	-	114	104	6.37	17	94.1	94.1
	22	51.0	40.3	-	61.7	51.0	6.69	17	94.1	
Ortho (Vitros)	21	94.1	74.3	-	114	74.5	9.58	2	50.0	50.0
	22	40.3	31.8	-	48.8	35.4	6.13	2	100	
other providers (RMV)	21	94.1	74.3	-	114	95.1	3.87	121	99.2	96.7
	22	40.3	31.8	-	48.8	39.7	5.84	121	96.7	

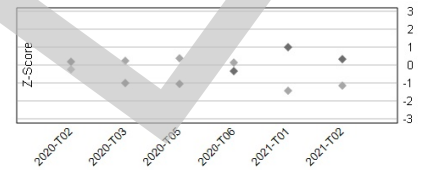
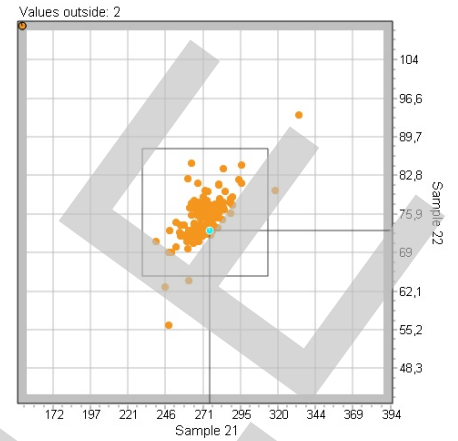
Rate of success: 94,6%



Glucose (mg/dl, N = 160)

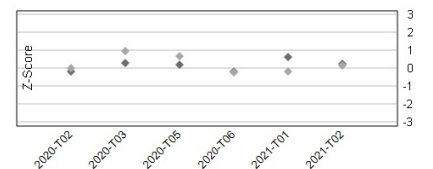
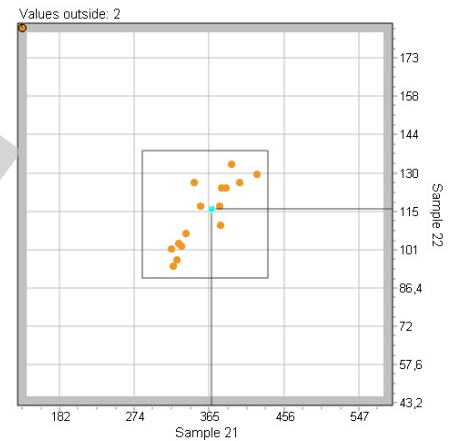
Collective	Sam- ple	Target value	Target range			Participants collective			Rate (%)	
						AVG	CV	Num.	Sam.	total
all providers (RMV)	21	272	231	-	313	271	3.44	160	98.1	96.3
	22	76.2	64.8	-	87.6	74.9	3.91	160	96.3	

Rate of success: 96,3%


HBDH (U/l, N = 19)

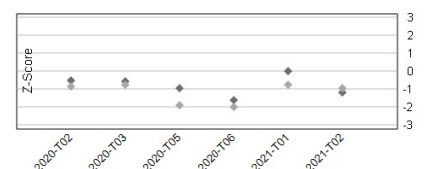
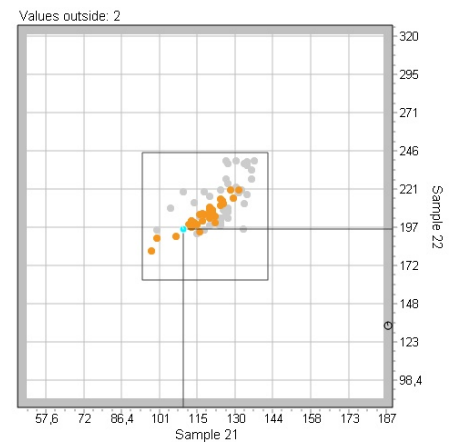
Collective	Sam- ple	Target value	Target range			Participants collective			Rate (%)	
						AVG	CV	Num.	Sam.	total
all providers	21	360	284	-	436	360	9.36	19	89.5	89.5
	22	114	90.1	-	138	114	11.8	19	89.5	

Rate of success: 89,5%


IgA (mg/dl, N = 76)

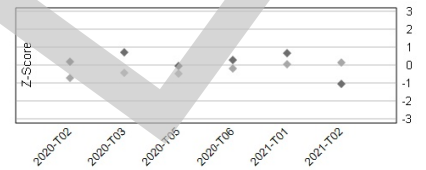
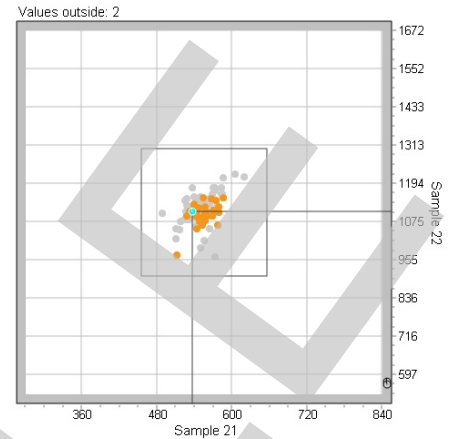
Collective	Sam- ple	Target value	Target range			Participants collective			Rate (%)	
						AVG	CV	Num.	Sam.	total
Siemens (Dade Behring)	21	125	100	-	150	125	8.72	11	100	100
	22	229	183	-	275	229	5.33	11	100	
Roche	21	118	94.4	-	142	118	5.68	31	100	100
	22	204	163	-	245	204	4.18	31	100	
other providers	21	125	100	-	150	125	5.46	34	94.1	94.1
	22	208	166	-	250	208	5.72	34	94.1	

Rate of success: 97,4%



IgG (mg/dl, N = 78)										
Collective	Sample	Target value	Target range		Participants collective			Rate (%)		
					AVG	CV	Num.	Sam.	total	
Siemens (Dade Behring)	21	573	470	-	676	573	3.54	11	100	100
	22	1160	951	-	1369	1160	3.72	11	100	
Roche	21	556	456	-	656	556	3.27	31	100	100
	22	1103	904	-	1302	1103	2.44	31	100	
other providers	21	542	444	-	640	542	3.89	36	94.4	94.4
	22	1110	910	-	1310	1110	4.15	36	94.4	

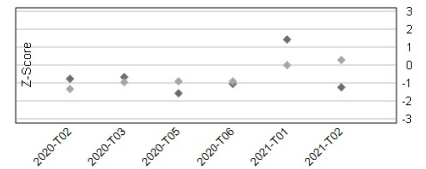
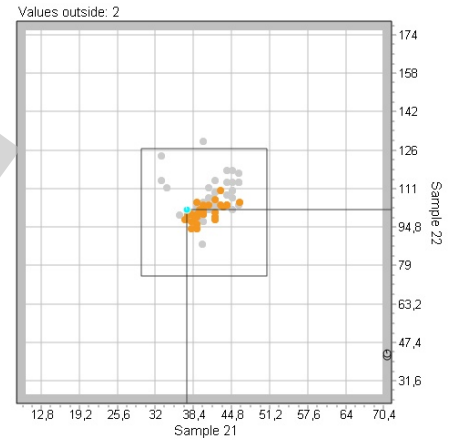
Rate of success: 97,4%



IgM (mg/dl, N = 73)										
Collective	Sample	Target value	Target range		Participants collective			Rate (%)		
					AVG	CV	Num.	Sam.	total	
M.87, R.BW (1)	21	44.2	32.7	-	55.7	44.2	4.55	7		
	22	114	84.4	-	144	114	3.41	7		
Roche	21	40.2	29.7	-	50.7	40.2	5.90	31	100	100
	22	101	74.7	-	127	101	3.38	31	100	
other providers	21	40.8	30.2	-	51.4	40.8	7.97	35	94.3	94.3
	22	105	77.7	-	132	105	5.85	35	94.3	

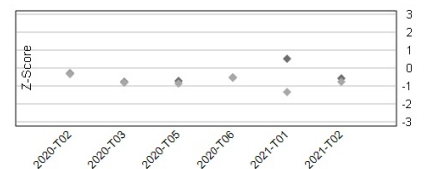
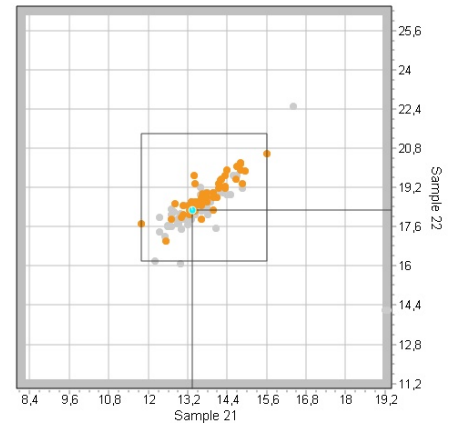
Rate of success: 97,3%

(1) In individual cases is a statistically valid valuation with consensus value not given, because size of the collective < 8 values.



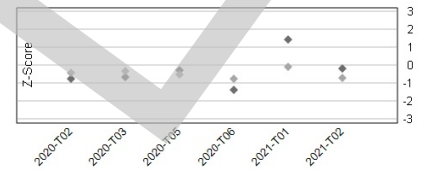
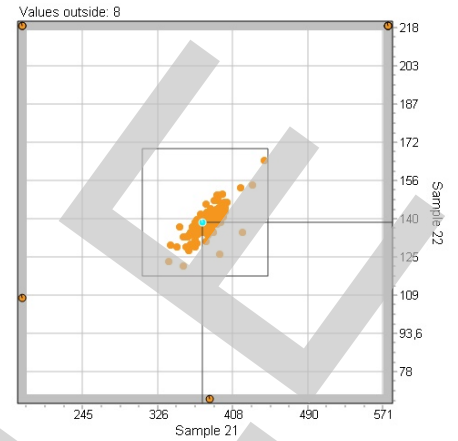
Iron (µmol/l, N = 123)										
Collective	Sample	Target value	Target range		Participants collective			Rate (%)		
					AVG	CV	Num.	Sam.	total	
Abbott	21	13.5	11.6	-	15.4	13.5	3.12	10	100	100
	22	18.6	16.0	-	21.2	18.6	2.95	10	100	
Beckman (Olympus)	21	13.6	11.7	-	15.5	13.6	4.60	27	100	100
	22	18.5	15.9	-	21.1	18.5	3.41	27	100	
Siemens (Bayer Health)	21	14.8	12.7	-	16.9	14.8	21.3	8	75.0	75.0
	22	17.3	14.9	-	19.7	17.3	12.6	8	75.0	
Siemens (Dade Behring)	21	12.9	11.1	-	14.7	12.9	2.37	14	100	100
	22	17.8	15.3	-	20.3	17.8	1.23	14	100	
Roche	21	13.7	11.8	-	15.6	13.7	4.47	55	100	100
	22	18.8	16.2	-	21.4	18.8	3.65	55	100	
other providers	21	13.4	11.5	-	15.3	13.4	7.91	9	88.9	88.9
	22	18.5	15.9	-	21.1	18.5	3.05	9	88.9	

Rate of success: 97,6%



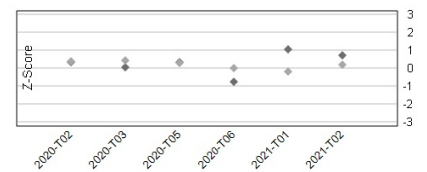
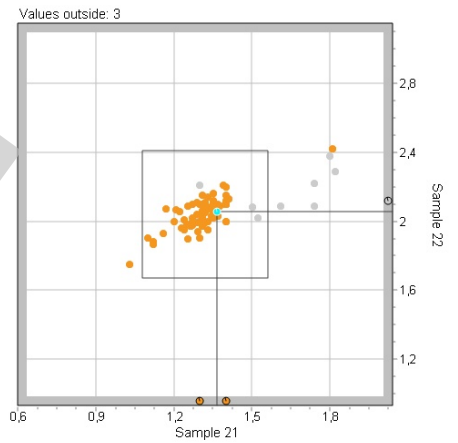
LDH (U/l, N = 133)										
Collective	Sample	Target value	Target range			Participants collective			Rate (%)	
						AVG	CV	Num.	Sam.	total
all providers (RMV)	21	378	310	-	446	380	3.68	133	95.5	94.7
	22	143	117	-	169	139	3.92	133	94.7	

Rate of success: 94,7%

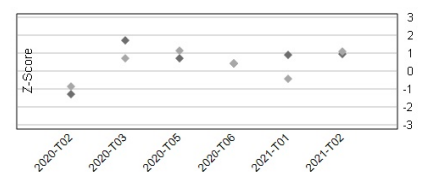
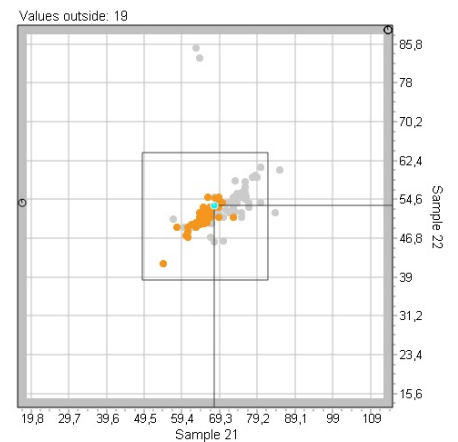


Lactate (mmol/l, N = 91)										
Collective	Sample	Target value	Target range			Participants collective			Rate (%)	
						AVG	CV	Num.	Sam.	total
M.42	21	1.61	1.32	-	1.90	1.61	16.0	11	72.7	72.7
	22	2.14	1.75	-	2.53	2.14	5.37	11	100	
other methods	21	1.32	1.08	-	1.56	1.32	4.92	80	97.5	95.0
	22	2.04	1.67	-	2.41	2.04	3.73	80	96.3	

Rate of success: 92,3%



Lipase (U/l, N = 127)										
Collective	Sample	Target value	Target range			Participants collective			Rate (%)	
						AVG	CV	Num.	Sam.	total
Abbott	21	71.8	53.9	-	89.8	71.8	6.57	9	88.9	88.9
	22	54.4	40.8	-	68.0	54.4	4.19	9	100	
Siemens (Bayer Health)	21	74.9	56.2	-	93.6	74.9	10.2	9	100	77.8
	22	63.2	47.4	-	79.0	63.2	20.4	9	77.8	
Siemens (Dade Behring)	21	223	167	-	279	223	13.6	16	100	100
	22	186	140	-	233	186	14.9	16	100	
Beckmann (Olympus)	21	73.5	55.1	-	91.9	73.5	3.88	25	100	100
	22	53.8	40.3	-	67.3	53.8	4.39	25	100	
Ortho (Vitros) (1)	21	1051	788	-	1314	1051	22.8	2		
	22	446	335	-	558	446	2.87	2		
G.RO56, RO71, RO73	21	65.5	49.1	-	81.9	65.5	4.06	48	100	100
	22	51.2	38.4	-	64.0	51.2	3.87	48	100	
Roche other systems	21	66.1	49.6	-	82.6	66.1	4.40	10	100	100
	22	51.3	38.5	-	64.1	51.3	2.85	10	100	

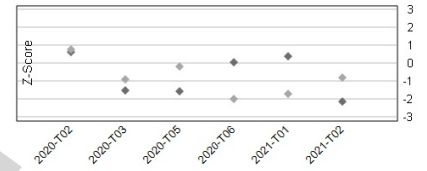
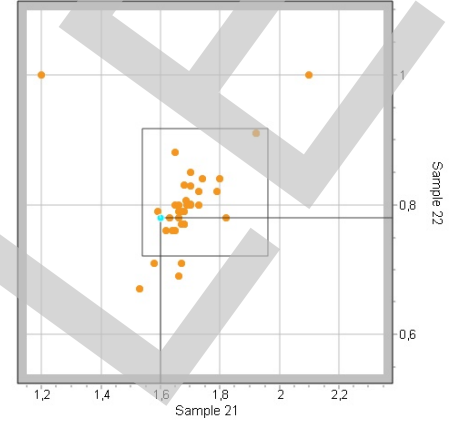


Collective	Sample	Target value	Target range	Participants collective			Rate (%)	
				AVG	CV	Num.	Sam.	total
other providers	21	71.2	53.4 - 89.0	71.2	14.9	8	100	100
	22	51.1	38.3 - 63.9	51.1	9.00	8	100	

Rate of success: 97,6%

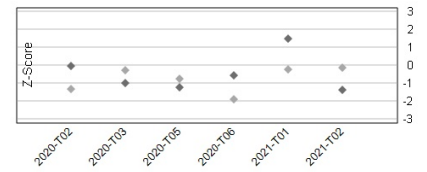
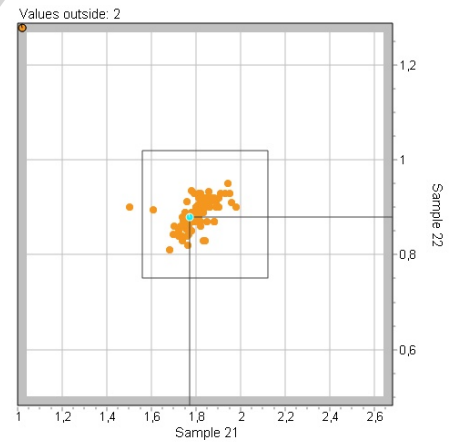
Lithium (mmol/l, N = 37)									
Collective	Sample	Target value	Target range	Participants collective			Rate (%)		
				AVG	CV	Num.	Sam.	total	
all providers (RMV)	21	1.75	1.54 - 1.96	1.68	4.17	37	91.9	83.8	
	22	0.819	0.721 - 0.917	0.799	6.01	37	83.8		

Rate of success: 83,8%



Magnesium (mmol/l, N = 114)									
Collective	Sample	Target value	Target range	Participants collective			Rate (%)		
				AVG	CV	Num.	Sam.	total	
all providers (RMV)	21	1.84	1.56 - 2.12	1.80	2.83	114	97.4	97.4	
	22	0.884	0.751 - 1.02	0.887	3.27	114	98.2		

Rate of success: 97,4%

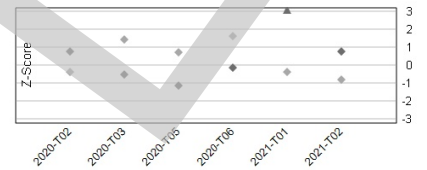
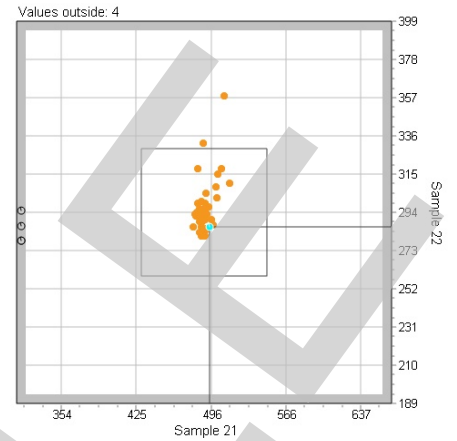


Osmolality (mOsmol/kg, N = 46)

Collective	Sample	Target value	Target range	Participants collective			Rate (%)	
				AVG	CV	Num.	Sam.	total
calculated (1)	21	282	248 - 316	282	2.20	4		
	22	285	251 - 319	285	3.13	4		
other methods	21	489	430 - 548	489	1.36	42	100	95.2
	22	294	259 - 329	294	3.32	42	95.2	

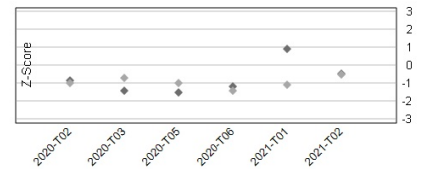
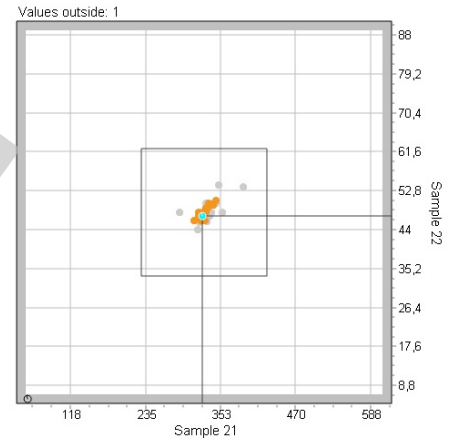
(1) In individual cases is a statistically valid valuation with consensus value not given, because size of the collective < 8 values.

Rate of success: 95,7%


Pancreas Amylase (U/l, N = 40)

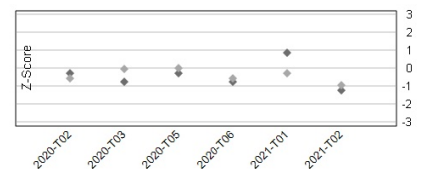
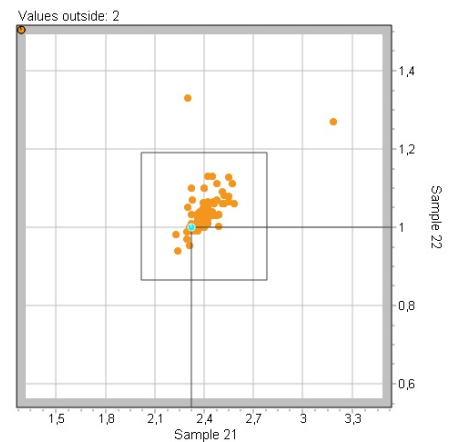
Collective	Sample	Target value	Target range	Participants collective			Rate (%)	
				AVG	CV	Num.	Sam.	total
Roche	21	327	229 - 425	327	2.02	23	100	100
	22	47.9	33.5 - 62.3	47.9	3.11	23	100	
other providers	21	329	230 - 428	329	3.68	17	100	100
	22	47.5	33.3 - 61.8	47.5	3.68	17	100	

Rate of success: 100%


Phosphate (mmol/l, N = 110)

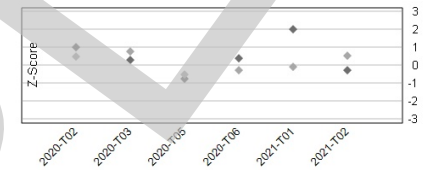
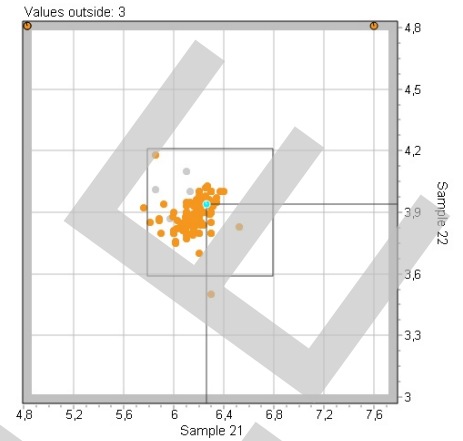
Collective	Sample	Target value	Target range	Participants collective			Rate (%)	
				AVG	CV	Num.	Sam.	total
all providers	21	2.40	2.02 - 2.78	2.40	2.71	110	97.3	96.4
	22	1.03	0.865 - 1.19	1.03	3.11	110	96.4	

Rate of success: 96,4%



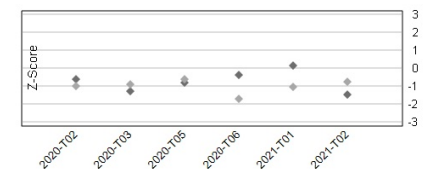
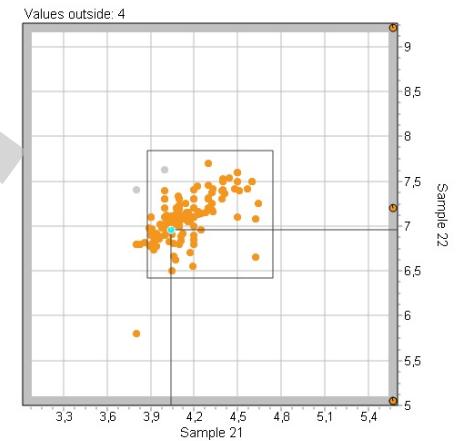
Potassium (mmol/l, N = 142)										
Collective	Sample	Target value	Target range	Participants collective			Rate (%)			
				AVG	CV	Num.	Sam.	total		
Siemens (Konelab) / Thermo Scientific	21	6.29	5.79 - 6.79	5.99	3.76	2	100	100		
	22	3.90	3.59 - 4.21	4.01	0.200	2	100	100		
Ortho (Vitros)	21	6.29	5.79 - 6.79	6.10	0.000	1	100	100		
	22	3.90	3.59 - 4.21	4.10	0.000	1	100	100		
Siemens Atellica CH	21	6.29	5.79 - 6.79	5.97	0.000	1	100	100		
	22	3.90	3.59 - 4.21	3.87	0.000	1	100	100		
other providers (RMV)	21	6.29	5.79 - 6.79	6.17	1.80	138	97.1	96.4		
	22	3.90	3.59 - 4.21	3.89	1.95	138	97.1	96.4		

Rate of success: 96,5%



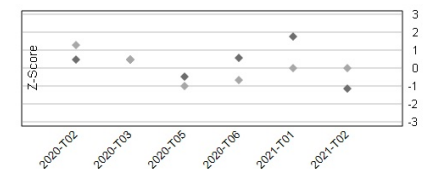
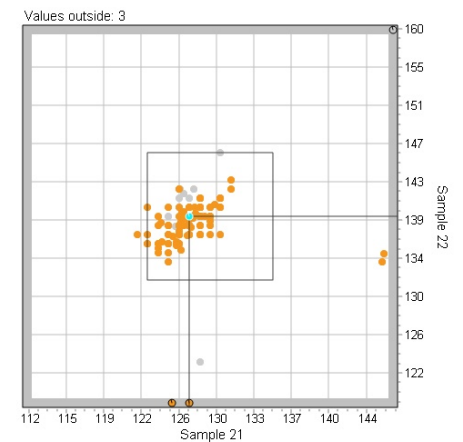
Protein (g/dl, N = 148)										
Collective	Sample	Target value	Target range	Participants collective			Rate (%)			
				AVG	CV	Num.	Sam.	total		
Ortho (Vitros)	21	4.31	3.88 - 4.74	3.90	4.10	2	50.0	50.0		
	22	7.13	6.42 - 7.84	7.52	2.45	2	100	100		
other providers (RMV)	21	4.31	3.88 - 4.74	4.14	4.37	146	93.8	93.8		
	22	7.13	6.42 - 7.84	7.09	3.19	146	97.3	97.3		

Rate of success: 93,2%



Sodium (mmol/l, N = 142)										
Collective	Sample	Target value	Target range	Participants collective			Rate (%)			
				AVG	CV	Num.	Sam.	total		
R.KN, OR, TS	21	129	123 - 135	126	0.000	3	100	100		
	22	139	132 - 146	143	2.10	3	100	100		
ISE, direct potentiometry	21	129	123 - 135	127	1.32	12	91.7	83.3		
	22	139	132 - 146	140	1.88	12	83.3	83.3		
other providers (RMV)	21	129	123 - 135	127	1.35	127	98.4	96.9		
	22	139	132 - 146	138	1.19	127	98.4	98.4		

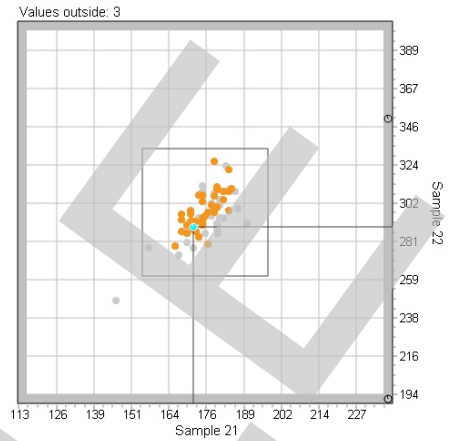
Rate of success: 95,8%



Transferrine (mg/dl, N = 80)										
Collective	Sample	Target value	Target range	Participants collective			Rate (%)			
				AVG	CV	Num.	Sam.	total		
Abbott	(1) 21	181	159 - 203	181	2.01	6				
	22	304	268 - 340	304	4.54	6				
Beckman (Olympus)	21	175	154 - 196	175	4.10	15	86.7	86.7		
	22	288	253 - 323	288	3.89	15	86.7	86.7		
Siemens Dimension +	(1) 21	169	149 - 189	169	6.75	4				
	22	288	253 - 323	288	6.04	4				
Siemens other devices	21	184	162 - 206	184	6.03	11	81.8	81.8		
	22	293	258 - 328	293	6.14	11	81.8	81.8		
Roche / other providers	21	176	155 - 197	176	3.14	44	100	100		
	22	297	261 - 333	297	3.47	44	100	100		

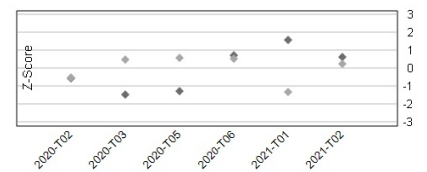
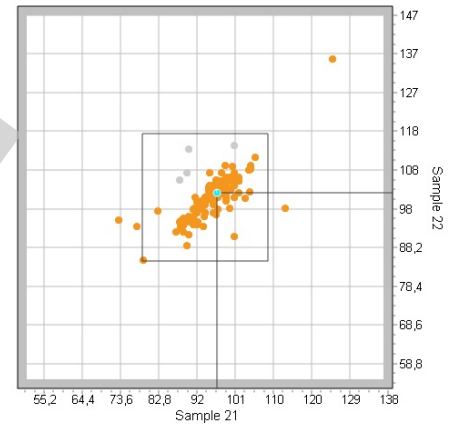
(1) In individual cases is a statistically valid valuation with consensus value not given, because size of the collective < 8 values.

Rate of success: 95%



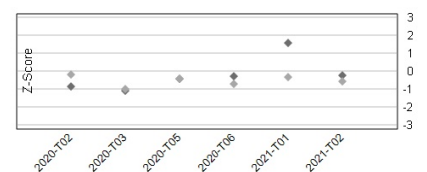
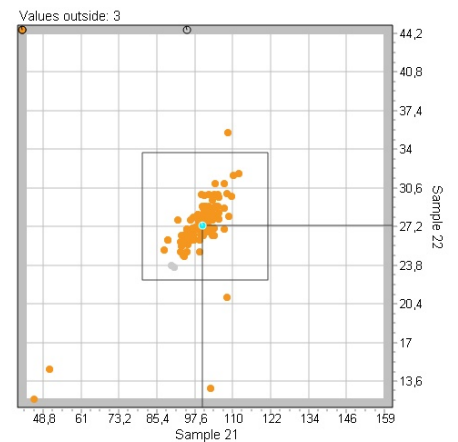
Triglycerides (mg/dl, N = 140)										
Collective	Sample	Target value	Target range	Participants collective			Rate (%)			
				AVG	CV	Num.	Sam.	total		
Ortho (Vitros)	21	93.9	78.9 - 109	94.4	11.3	2	100	100		
	22	101	84.8 - 117	110	6.56	2	100	100		
Unicel DX-System	21	93.9	78.9 - 109	89.8	0.447	2	100	100		
	22	101	84.8 - 117	110	4.37	2	100	100		
other providers (RMV)	21	93.9	78.9 - 109	95.9	4.89	136	96.3	96.3		
	22	101	84.8 - 117	101	4.56	136	98.5	98.5		

Rate of success: 96,4%



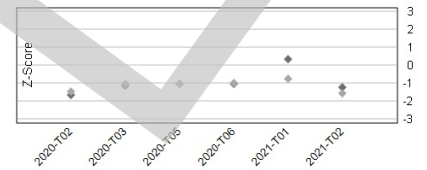
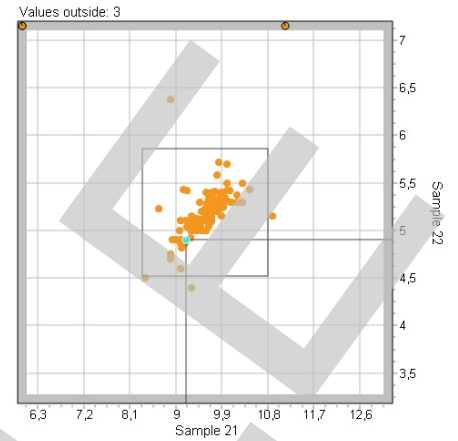
Urea (mg/dl, N = 146)										
Collective	Sample	Target value	Target range	Participants collective			Rate (%)			
				AVG	CV	Num.	Sam.	total		
Ortho (Vitros)	21	101	80.8 - 121	92.1	3.17	3	100	66.7		
	22	28.1	22.5 - 33.7	52.5	108	3	66.7	66.7		
other providers (RMV)	21	101	80.8 - 121	99.7	4.03	143	97.9	95.8		
	22	28.1	22.5 - 33.7	27.4	4.93	143	95.8	95.8		

Rate of success: 95,2%



Uric Acid (mg/dl, N = 141)										
Collective	Sample	Target value	Target range	Participants collective			Rate (%)			
				AVG	CV	Num.	Sam.	total		
all providers (RMV)	21	9.60	8.35 - 10.8	9.55	3.36	141	98.6	96.5		
	22	5.19	4.52 - 5.86	5.15	3.57	141	96.5			

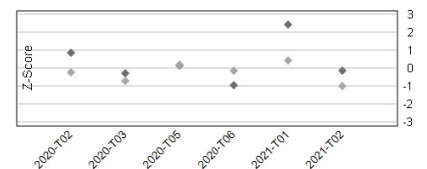
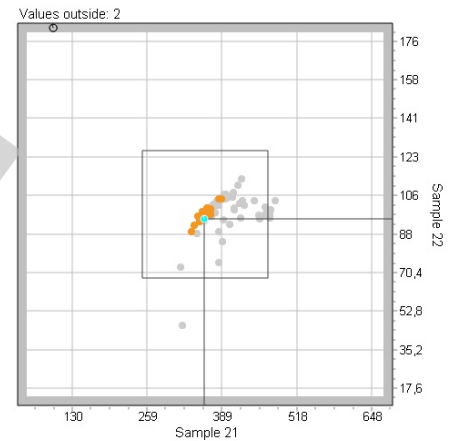
Rate of success: 96,5%



alpha-Amylase (U/l, N = 91)										
Collective	Sample	Target value	Target range	Participants collective			Rate (%)			
				AVG	CV	Num.	Sam.	total		
Abbott (1)	21	418	293 - 543	418	2.07	5				
	22	101	70.7 - 131	101	1.77	5				
Beckman (Olympus)	21	385	270 - 501	385	2.39	25	100	96.0		
	22	103	72.1 - 134	103	1.95	25	96.0			
Siemens (Bayer Health)	21	373	261 - 485	373	4.45	9	77.8	77.8		
	22	95.7	67.0 - 124	95.7	4.96	9	77.8			
Siemens (Dade Behring)	21	467	327 - 607	467	2.09	11	100	100		
	22	97.4	68.2 - 127	97.4	1.99	11	100			
Roche	21	360	252 - 468	360	2.06	34	100	100		
	22	97.0	67.9 - 126	97.0	2.04	34	100			
other providers (1)	21	384	269 - 499	384	11.6	7				
	22	94.2	65.9 - 122	94.2	14.9	7				

Rate of success: 96,7%

(1) In individual cases is a statistically valid valuation with consensus value not given, because size of the collective < 8 values.



gamma-Globulins (Electrophoresis) (% , N = 35)										
Collective	Sample	Target value	Target range	Participants collective			Rate (%)			
				AVG	CV	Num.	Sam.	total		
Capillary Zone Electrophoresis	21	11.7	7.96 - 15.4	11.7	5.80	23	100	95.7		
	22	14.0	9.52 - 18.5	14.0	3.91	23	95.7			
other methods	21	11.2	7.62 - 14.8	11.2	13.6	12	91.7	91.7		
	22	13.1	8.91 - 17.3	13.1	17.8	12	100			

Rate of success: 94,3%

