Collaborative Testing Services, Inc
FORENSIC TESTING PROGRAM

Breath Alcohol Simulator Solution Analysis
No. 18-568 Summary Report

Each sample pack consisted of two bottles of solution which participants were requested to analyze. Data were returned from 55 participants and are compiled into the following tables:

Manufacturer's Information

Each sample pack consisted of two 500mL bottles of solution each with a different alcohol concentration. Participants were requested to analyze each item and report the resultant Breath Alcohol Concentration (BrAC).

ITEMS 1 and 2 (PREPARATION): Sample preparation consisted of combining a predetermined volume of ethanol and DI water. Each solution was mixed and left to equilibrate before being sent for predistribution testing.

SAMPLE SET ASSEMBLY: Once predistribution results were received, the samples were then dispensed into pre-labeled sample bottles. A sample pack was prepared containing an Item 1 and 2.

VERIFICATION: Laboratories that conducted predistribution analysis of the samples reported consistent results that were comparable to the preparation Breath Alcohol Concentrations.

Item	Preparation BrAC (g/210L)
1	0.34
2	0.10

Please note that the Preparation BrAC is the value used for calculations during the test preparation phase and may not necessarily represent the final concentration of the samples. It is advised to wait for the Grand Mean statistics available in the Summary and Individual Reports before evaluating performance.

Summary Comments

This test was designed to allow participants to assess their proficiency in the analysis of breath alcohol simulator solutions. Each participant was supplied with a sample set consisting of two 500mL bottles of solution which contained different breath alcohol concentration (BrAC) values. (Refer to Manufacturer's Information for production details.)

Table 1 is separated by item number and port used. Some participants reported both IR and EC results; thus the number of entries in the table summaries may not be the same as the number of participants. Out of 55 total participants, 48 (87.3%) participants reported results utilizing the Calibration Port and 34 (61.8%) participants reported results utilizing the Breath Port.

The grand mean and standard deviation were calculated utilizing the raw data for each Item. They are provided to assist participants in determining the acceptability of the results per their laboratory policies. Participants with "extreme" data (±5 STD from grand mean) have been marked with an "X" and their results were excluded from the calculations of the grand mean and standard deviation. One participant reported "extreme" data for Items 1 and 2 using both the Calibration Port and Breath Port. Based on the results reported by this participant, it appears that he or she may have switched the items at some point in the testing or reporting process. A second participant reported "extreme" data for Items 1 and 2 using the Breath Port. This participant appears to have reported results in units other than g/210L.

CTS noted many participants reported their instrument's serial numbers. For the sake of anonymity, CTS did not reproduce this information in the report.

Breath Alcohol Results

Report 9 consecutive readings from your Breath Test Instrument to three decimal places in grams per 210 liters.

TABLE 1- Item 1 - Calibration Port

WebCode	Preparation Target BrAC: 0.34 g/210L									Mean
2FPYM6	EC									
	0.3360	0.3360	0.3370	0.3360	0.3370	0.3380	0.3360	0.3360	0.3380	0.3367
	IR									
	0.3330	0.3320	0.3330	0.3320	0.3320	0.3330	0.3310	0.3320	0.3320	0.3322
3KYEU9	IR									
	0.3410	0.3390	0.3380	0.3370	0.3370	0.3370	0.3370	0.3370	0.3370	0.3378
46G78A	IR									
	0.3260	0.3260	0.3270	0.3270	0.3260	0.3270	0.3280	0.3260	0.3260	0.3266
4DTZNX	EC									
	0.3330	0.3350	0.3340	0.3330	0.3340	0.3320	0.3330	0.3310	0.3320	0.3330
	IR									
	0.3280	0.3280	0.3280	0.3290	0.3280	0.3280	0.3270	0.3270	0.3260	0.3277
4MXAT2	EC									
	0.3410	0.3420	0.3430	0.3440	0.3440	0.3440	0.3460	0.3460	0.3460	0.3440
	IR									
	0.3360	0.3360	0.3360	0.3360	0.3360	0.3350	0.3350	0.3340	0.3350	0.3354
88VNWW	IR									
	0.3320	0.3320	0.3320	0.3320	0.3320	0.3320	0.3310	0.3310	0.3320	0.3318
99NVX9	IR									
	0.3350	0.3360	0.3360	0.3370	0.3370	0.3360	0.3370	0.3360	0.3360	0.3362
9C4MP2	IR									
	0.3380	0.3380	0.3370	0.3390	0.3380	0.3370	0.3370	0.3360	0.3350	0.3372
9UKQBT	IR									
	0.3310	0.3310	0.3300	0.3310	0.3310	0.3300	0.3300	0.3300	0.3300	0.3304
9WRZNK	IR									
	0.3140	0.3240	0.3280	0.3310	0.3320	0.3330	0.3330	0.3340	0.3330	0.3291
AJ3C77	IR									
	0.3310	0.3290	0.3280	0.3280	0.3270	0.3290	0.3280	0.3270	0.3270	0.3282
B7TDCP	IR									
	0.3300	0.3320	0.3330	0.3320	0.3340	0.3330	0.3340	0.3330	0.3340	0.3328
BE2PR9	IR									
	0.3420	0.3440	0.3460	0.3450	0.3460	0.3460	0.3470	0.3480	0.3470	0.3457
BFCPQN	EC									
	0.3290	0.3290	0.3280	0.3270	0.3290	0.3290	0.3310	0.3320	0.3300	0.3293
	IR									
	0.3270	0.3270	0.3260	0.3250	0.3230	0.3250	0.3250	0.3260	0.3230	0.3252

TABLE 1- Item 1 - Calibration Port

WebCode	Preparation Target BrAC: 0.34 g/210L									Mean	
BXWHC7	IR										
	0.3370	0.3360	0.3370	0.3360	0.3360	0.3360	0.3360	0.3360	0.3370	0.3363	
C9UECM	EC										
	0.3340	0.3360	0.3380	0.3390	0.3400	0.3420	0.3420	0.3440	0.3450	0.3400	
	IR										
	0.3370	0.3360	0.3360	0.3370	0.3360	0.3370	0.3370	0.3370	0.3370	0.3367	
CJBA8R	IR										
	0.3090	0.3210	0.3230	0.3220	0.3240	0.3270	0.3250	0.3290	0.3300	0.3233	
EJ2AYN	EC										
	0.0950	0.0930	0.0940	0.0930	0.0930	0.0930	0.0940	0.0930	0.0930	0.0934	X
	IR										
	0.0940	0.0930	0.0930	0.0940	0.0940	0.0940	0.0940	0.0940	0.0940	0.0938	X
EQPTNX	IR										
	0.3350	0.3360	0.3350	0.3340	0.3350	0.3350	0.3340	0.3350	0.3350	0.3349	
EYWP8U	IR										
	0.3360	0.3350	0.3350	0.3350	0.3350	0.3350	0.3340	0.3340	0.3340	0.3348	
F23AVU	IR										
	0.3360	0.3360	0.3350	0.3350	0.3350	0.3350	0.3350	0.3350	0.3350	0.3352	
F2JNYX	IR										
	0.3380	0.3410	0.3390	0.3400	0.3410	0.3400	0.3390	0.3390	0.3400	0.3397	
FRCZ97	IR										
	0.3315	0.3313	0.3307	0.3322	0.3320	0.3322	0.3318	0.3318	0.3307	0.3316	
FTQB2J	EC/ IR										
	0.3410	0.3420	0.3420	0.3420	0.3420	0.3420	0.3410	0.3410	0.3420	0.3417	
GCGPB2	IR										
	0.3290	0.3300	0.3290	0.3290	0.3290	0.3280	0.3290	0.3290	0.3290	0.3290	
GEJPBY	IR										
	0.3310	0.3320	0.3320	0.3320	0.3320	0.3330	0.3320	0.3320	0.3320	0.3320	
HD4VWB	IR										
	0.3300	0.3320	0.3330	0.3350	0.3340	0.3350	0.3350	0.3360	0.3360	0.3340	
HYNM9Z	IR										
	0.3380	0.3380	0.3390	0.3390	0.3390	0.3390	0.3380	0.3380	0.3380	0.3384	
K976GP	IR - Intoxilyzer 8000										
	0.3370	0.3380	0.3390	0.3390	0.3400	0.3390	0.3390	0.3390	0.3380	0.3387	
KYFMZV	IR										
	0.3280	0.3310	0.3300	0.3320	0.3340	0.3340	0.3340	0.3340	0.3350	0.3324	
L2ZQAE	IR - CMI Intoxilyzer 8000										
	0.3170	0.3220	0.3230	0.3240	0.3260	0.3260	0.3260	0.3270	0.3140	0.3228	

TABLE 1- Item 1 - Calibration Port

WebCode		Preparation Target BrAC: 0.34 g/210L									Mean
LL77TQ	IR										
		0.3340	0.3340	0.3340	0.3330	0.3340	0.3340	0.3330	0.3340	0.3330	0.3337
N7P398	IR										
		0.3340	0.3340	0.3340	0.3340	0.3340	0.3340	0.3340	0.3340	0.3340	0.3340
P27CAQ	IR										
		0.3280	0.3290	0.3290	0.3300	0.3300	0.3300	0.3300	0.3290	0.3300	0.3294
PJMFVH	EC										
		0.3400	0.3410	0.3420	0.3420	0.3430	0.3420	0.3430	0.3430	0.3450	0.3423
	IR										
		0.3360	0.3370	0.3370	0.3360	0.3370	0.3360	0.3360	0.3360	0.3350	0.3362
Q8P39Q	EC										
		0.3250	0.3280	0.3280	0.3270	0.3280	0.3280	0.3260	0.3280	0.3280	0.3273
	IR										
		0.3220	0.3240	0.3250	0.3200	0.3240	0.3240	0.3190	0.3230	0.3230	0.3227
QPRNRC	IR										
		0.3390	0.3390	0.3390	0.3380	0.3390	0.3390	0.3390	0.3390	0.3390	0.3389
R7EEBC	IR										
		0.3320	0.3320	0.3320	0.3320	0.3320	0.3330	0.3320	0.3320	0.3320	0.3321
RMJLPE	EC										
		0.3270	0.3270	0.3270	0.3270	0.3260	0.3260	0.3270	0.3270	0.3270	0.3268
	IR										
		0.3330	0.3330	0.3330	0.3320	0.3330	0.3320	0.3320	0.3320	0.3320	0.3324
RZ67ZA	IR										
		0.3370	0.3350	0.3360	0.3360	0.3360	0.3360	0.3370	0.3350	0.3360	0.3360
UX9MUD	EC										
		0.3380	0.3370	0.3390	0.3400	0.3390	0.3400	0.3400	0.3410	0.3410	0.3394
	IR										
		0.3320	0.3330	0.3330	0.3320	0.3330	0.3330	0.3320	0.3320	0.3320	0.3324
V8FJEB	EC										
		0.3280	0.3320	0.3340	0.3360	0.3370	0.3380	0.3390	0.3410	0.3410	0.3362
	IR										
		0.3340	0.3340	0.3350	0.3370	0.3350	0.3400	0.3370	0.3390	0.3380	0.3366
V9L43B	EC										
		0.3440	0.3420	0.3410	0.3400	0.3400	0.3390	0.3390	0.3390	0.3400	0.3404
	IR										
		0.3340	0.3340	0.3350	0.3340	0.3350	0.3360	0.3330	0.3340	0.3340	0.3343
WJZKA8	IR										
		0.3270	0.3280	0.3300	0.3310	0.3310	0.3320	0.3340	0.3340	0.3340	0.3312
XDCXDG	IR										
		0.3340	0.3350	0.3350	0.3350	0.3350	0.3320	0.3350	0.3330	0.3340	0.3342

TABLE 1- Item 1 - Calibration Port

WebCode	Preparation Target BrAC: 0.34 g/210L									Mean
Y88J77	IR Intoxilyzer model 8000									
	0.3290	0.3290	0.3300	0.3290	0.3290	0.3290	0.3290	0.3280	0.3290	0.3290
YDD3FW	IR									
	0.3280	0.3280	0.3290	0.3300	0.3300	0.3290	0.3320	0.3300	0.3310	0.3297
ZF9KK3	IR									
	0.3280	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3290	0.3289

Statistical Analysis for Item 1

Grand Mean	0.3335	Number of Entries Included	58
Standard Deviation	0.0052	Number of Entries Excluded	2

Number of entries may add up to more than the total number of participants because participants can report results for multiple methods.

TABLE 1- Item 2 - Calibration Port

WebCode		Preparation Target BrAC: 0.10 g/210L									Mean
2FPYM6	EC										
		0.0960	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0951
	IR										
		0.0940	0.0940	0.0940	0.0930	0.0940	0.0940	0.0930	0.0940	0.0940	0.0938
3KYEU9	IR										
		0.0940	0.0940	0.0940	0.0940	0.0940	0.0940	0.0950	0.0940	0.0940	0.0941
46G78A	IR										
		0.0910	0.0910	0.0900	0.0910	0.0910	0.0900	0.0910	0.0910	0.0900	0.0907
4DTZNX	EC										
		0.0950	0.0960	0.0970	0.0950	0.0940	0.0950	0.0930	0.0930	0.0940	0.0947
	IR										
		0.0930	0.0950	0.0940	0.0930	0.0940	0.0940	0.0940	0.0950	0.0930	0.0939
4MXAT2	EC										
		0.0930	0.0950	0.0950	0.0940	0.0950	0.0960	0.0960	0.0960	0.0950	0.0950
	IR										
		0.0930	0.0940	0.0950	0.0940	0.0950	0.0950	0.0940	0.0930	0.0950	0.0942
88VNWW	IR										
		0.0960	0.0960	0.0950	0.0950	0.0960	0.0950	0.0950	0.0950	0.0950	0.0953
99NVX9	IR										
		0.0940	0.0950	0.0950	0.0940	0.0950	0.0950	0.0950	0.0950	0.0950	0.0948
9C4MP2	IR										
		0.0970	0.0970	0.0970	0.0970	0.0970	0.0970	0.0960	0.0960	0.0960	0.0967
9UKQBT	IR										
		0.0920	0.0910	0.0910	0.0910	0.0910	0.0920	0.0910	0.0910	0.0900	0.0911
9WRZNK	IR										
		0.1260	0.1120	0.1070	0.1030	0.1020	0.1010	0.1000	0.0990	0.0980	0.1053
AJ3C77	IR										
		0.0940	0.0940	0.0940	0.0930	0.0940	0.0940	0.0930	0.0930	0.0930	0.0936
B7TDCP	IR										
		0.0930	0.0930	0.0940	0.0940	0.0940	0.0940	0.0940	0.0940	0.0930	0.0937
BE2PR9	IR										
		0.1030	0.1010	0.1010	0.1020	0.1020	0.1010	0.1020	0.1020	0.1030	0.1019
BFCPQN	EC										
		0.0920	0.0930	0.0930	0.0940	0.0940	0.0930	0.0930	0.0930	0.0940	0.0932
	IR										
		0.0930	0.0930	0.0930	0.0930	0.0940	0.0930	0.0930	0.0930	0.0930	0.0931
BXWHC7	IR										
		0.0950	0.0960	0.0960	0.0960	0.0960	0.0960	0.0960	0.0960	0.0960	0.0959

TABLE 1- Item 2 - Calibration Port

WebCode	Preparation Target BrAC: 0.10 g/210L									Mean	
C9UECM	EC										
	0.0930	0.0930	0.0940	0.0940	0.0940	0.0940	0.0950	0.0940	0.0950	0.0940	
	IR										
	0.0940	0.0940	0.0940	0.0950	0.0940	0.0950	0.0940	0.0940	0.0950	0.0943	
CJBA8R	IR										
	0.0960	0.0960	0.0960	0.0950	0.0960	0.0970	0.0960	0.0960	0.0960	0.0960	
EJ2AYN	EC										
	0.3230	0.3200	0.3210	0.3200	0.3200	0.3190	0.3150	0.3130	0.3190	0.3189	X
	IR										
	0.3240	0.3270	0.3270	0.3270	0.3240	0.3240	0.3230	0.3240	0.3260	0.3251	X
EQPTNX	IR										
	0.0950	0.0950	0.0950	0.0940	0.0950	0.0950	0.0950	0.0950	0.0950	0.0949	
EYWP8U	IR										
	0.0960	0.0960	0.0960	0.0960	0.0960	0.0950	0.0960	0.0950	0.0960	0.0958	
F23AVU	IR										
	0.0980	0.0970	0.0980	0.0980	0.0970	0.0970	0.0970	0.0970	0.0970	0.0973	
F2JNYX	IR										
	0.0980	0.0980	0.0980	0.0980	0.0970	0.0970	0.0970	0.0970	0.0970	0.0974	
FRCZ97	IR										
	0.0938	0.0947	0.0942	0.0940	0.0945	0.0942	0.0938	0.0940	0.0940	0.0941	
FTQB2J	EC/ IR										
	0.0900	0.0960	0.0970	0.0970	0.0970	0.0970	0.0970	0.0970	0.0970	0.0961	
GCGPB2	IR										
	0.0980	0.0980	0.0980	0.0980	0.0970	0.0970	0.0970	0.0970	0.0970	0.0974	
GEJPBY	IR										
	0.0930	0.0930	0.0920	0.0930	0.0930	0.0930	0.0930	0.0930	0.0930	0.0929	
HD4VWB	IR										
	0.0950	0.0940	0.0930	0.0940	0.0920	0.0930	0.0930	0.0940	0.0930	0.0934	
HYNM9Z	IR										
	0.0980	0.0960	0.0970	0.0970	0.0960	0.0970	0.0970	0.0970	0.0980	0.0970	
K976GP	IR - Intoxilyzer 8000										
	0.0950	0.0950	0.0950	0.0950	0.0940	0.0940	0.0950	0.0950	0.0940	0.0947	
KYFMZV	IR										
	0.0960	0.0970	0.0960	0.0960	0.0950	0.0960	0.0950	0.0960	0.0960	0.0959	
L2ZQAE	IR - CMI Intoxilyzer 8000										
	0.0910	0.0930	0.0910	0.0920	0.0910	0.0920	0.0920	0.0900	0.0910	0.0914	
LL77TQ	IR										
	0.0940	0.0940	0.0940	0.0940	0.0940	0.0950	0.0940	0.0940	0.0940	0.0941	

TABLE 1- Item 2 - Calibration Port

WebCode	Preparation Target BrAC: 0.10 g/210L									Mean
N7P398	IR									
	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950
P27CAQ	IR									
	0.0920	0.0920	0.0910	0.0920	0.0920	0.0920	0.0920	0.0910	0.0910	0.0917
PJMFVH	EC									
	0.0930	0.0940	0.0930	0.0930	0.0940	0.0940	0.0940	0.0940	0.0940	0.0937
	IR									
	0.0940	0.0940	0.0940	0.0930	0.0940	0.0930	0.0940	0.0940	0.0940	0.0938
Q8P39Q	EC									
	0.0920	0.0920	0.0920	0.0920	0.0930	0.0930	0.0920	0.0930	0.0930	0.0924
	IR									
	0.0920	0.0930	0.0930	0.0920	0.0930	0.0940	0.0920	0.0930	0.0930	0.0928
QPRNRC	IR									
	0.0970	0.0970	0.0970	0.0960	0.0960	0.0970	0.0970	0.0970	0.0970	0.0968
R7EEBC	IR									
	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950
RMJLPE	EC									
	0.0920	0.0930	0.0940	0.0930	0.0930	0.0930	0.0930	0.0930	0.0930	0.0930
	IR									
	0.0940	0.0940	0.0940	0.0930	0.0940	0.0940	0.0940	0.0940	0.0930	0.0938
RZ67ZA	IR									
	0.0960	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0951
UX9MUD	EC									
	0.0950	0.0940	0.0950	0.0960	0.0960	0.0950	0.0950	0.0950	0.0950	0.0951
	IR									
	0.0940	0.0940	0.0940	0.0940	0.0940	0.0930	0.0940	0.0940	0.0940	0.0939
V8FJEB	EC									
	0.0910	0.0930	0.0930	0.0930	0.0950	0.0950	0.0950	0.0950	0.0950	0.0939
	IR									
	0.0920	0.0920	0.0960	0.0950	0.0960	0.0950	0.0950	0.0940	0.0950	0.0944
V9L43B	EC									
	0.0950	0.0930	0.0930	0.0960	0.0950	0.0940	0.0940	0.0940	0.0940	0.0942
	IR									
	0.0940	0.0940	0.0930	0.0930	0.0930	0.0930	0.0930	0.0930	0.0940	0.0933
WJZKA8	IR									
	0.0900	0.0930	0.0920	0.0920	0.0930	0.0930	0.0930	0.0940	0.0950	0.0928
XDCXDG	IR									
	0.0930	0.0940	0.0930	0.0940	0.0940	0.0930	0.0930	0.0920	0.0930	0.0932
Y88J77	IR Intoxilyzer model 8000									
	0.0940	0.0950	0.0950	0.0940	0.0940	0.0940	0.0940	0.0940	0.0940	0.0942

TABLE 1- Item 2 - Calibration Port

WebCode	Preparation Target BrAC: 0.10 g/210L									Mean
YDD3FW	IR									
	0.0930	0.0920	0.0930	0.0930	0.0930	0.0930	0.0940	0.0930	0.0940	0.0931
ZF9KK3	IR									
	0.0930	0.0920	0.0910	0.0920	0.0920	0.0920	0.0920	0.0920	0.0930	0.0921

Statistical Analysis for Item 2

Grand Mean	0.0946	Number of Entries Included	58
Standard Deviation	0.0023	Number of Entries Excluded	2

Number of entries may add up to more than the total number of participants because participants can report results for multiple methods.

TABLE 1-Calibration Port Summary Statistics

Response Summary	Calibration Port	
	Item 1	Item 2
Preparation Target BrAC (g/210L):	**0.34**	**0.10**
Grand Mean	0.3335	0.0946
Standard Deviation	0.0052	0.0023

TABLE 1- Item 1 - Breath Port

WebCode	Preparation Target BrAC: 0.34 g/210L									Mean	
2FPYM6	EC										
	0.3400	0.3400	0.3430	0.3420	0.3410	0.3420	0.3440	0.3430	0.3410	**0.3418**	
	IR										
	0.3270	0.3260	0.3250	0.3250	0.3240	0.3220	0.3230	0.3200	0.3210	**0.3237**	
32ZJYW	IR										
	153.6	153.8	153.7	151.3	153.0	152.6	151.0	152.4	151.7	**152.6**	X
4DTZNX	EC										
	0.3360	0.3230	0.3350	0.3310	0.3290	0.3320	0.3210	0.3350	0.3350	**0.3308**	
	IR										
	0.3300	0.3240	0.3260	0.3270	0.3290	0.3270	0.3230	0.3260	0.3270	**0.3266**	
4MXAT2	EC										
	0.3410	0.3420	0.3450	0.3420	0.3420	0.3430	0.3420	0.3420	0.3420	**0.3423**	
	IR										
	0.3300	0.3300	0.3290	0.3280	0.3280	0.3270	0.3270	0.3260	0.3250	**0.3278**	
6DV3ZN	IR										
	0.3000	0.3060	0.3050	0.3110	0.3120	0.3110	0.3100	0.3200	0.3220	**0.3108**	
99NVX9	IR										
	0.3250	0.3250	0.3260	0.3260	0.3260	0.3260	0.3260	0.3270	0.3280	**0.3261**	
AAC2JG	IR										
	0.3040	0.3090	0.3100	0.3110	0.3100	0.3120	0.3190	0.3080	0.3150	**0.3109**	
B7TDCP	IR										
	0.3390	0.3390	0.3310	0.3330	0.3300	0.3330	0.3300	0.3300	0.3310	**0.3329**	
BE2PR9	IR										
	0.3460	0.3450	0.3440	0.3460	0.3460	0.3440	0.3430	0.3430	0.3410	**0.3442**	
BFCPQN	EC										
	0.3230	0.3240	0.3260	0.3240	0.3240	0.3250	0.3230	0.3230	0.3250	**0.3241**	
	IR										
	0.3220	0.3200	0.3200	0.3180	0.3180	0.3190	0.3180	0.3170	0.3140	**0.3184**	
BXWHC7	IR										
	0.3410	0.3400	0.3440	0.3400	0.3430	0.3430	0.3430	0.3400	0.3420	**0.3418**	
C9UECM	EC										
	0.3340	0.3350	0.3320	0.3330	0.3360	0.3370	0.3360	0.3360	0.3360	**0.3350**	
	IR										
	0.3320	0.3310	0.3300	0.3290	0.3290	0.3280	0.3270	0.3270	0.3260	**0.3288**	
E72FXE	EC (fuel cell)										
	0.3390	0.3360	0.3370	0.3380	0.3360	0.3370	0.3370	0.3360	0.3380	**0.3371**	
EJ2AYN	EC										
	0.0950	0.0960	0.0950	0.0960	0.0960	0.0950	0.0960	0.0960	0.0950	**0.0956**	**X**
	IR-										
	0.0950	0.0940	0.0950	0.0940	0.0940	0.0950	0.0940	0.0940	0.0950	**0.0944**	**X**

TABLE 1- Item 1 - Breath Port

WebCode	Preparation Target BrAC: 0.34 g/210L									Mean
EYWP8U	IR									
	0.3350	0.3340	0.3330	0.3320	0.3330	0.3320	0.3310	0.3310	0.3310	0.3324
F23AVU	IR									
	0.3330	0.3320	0.3310	0.3300	0.3290	0.3290	0.3290	0.3280	0.3280	0.3299
FRCZ97	IR									
	0.3288	0.3273	0.3284	0.3280	0.3276	0.3271	0.3273	0.3276	0.3263	0.3276
FTQB2J	EC/IR									
	0.3310	0.3320	0.3290	0.3300	0.3300	0.3260	0.3260	0.3270	0.3240	0.3283
GCGPB2	IR									
	0.3280	0.3280	0.3300	0.3290	0.3290	0.3290	0.3310	0.3310	0.3310	0.3296
GUDARM	IR									
	0.3260	0.3260	0.3250	0.3240	0.3250	0.3260	0.3250	0.3250	0.3250	0.3252
HYNM9Z	IR									
	0.3420	0.3400	0.3450	0.3410	0.3410	0.3390	0.3400	0.3360	0.3390	0.3403
K976GP	IR - Intoxilyzer 8000									
	0.3380	0.3340	0.3320	0.3340	0.3330	0.3330	0.3320	0.3340	0.3310	0.3334
KYFMZV	IR									
	0.3270	0.3270	0.3280	0.3290	0.3310	0.3310	0.3320	0.3320	0.3310	0.3298
L2ZQAE	IR - CMI Intoxilyzer 8000									
	0.3290	0.3250	0.3280	0.3270	0.3290	0.3280	0.3270	0.3300	0.3280	0.3279
PJMFVH	EC									
	0.3200	0.3290	0.3290	0.3300	0.3290	0.3280	0.3280	0.3270	0.3270	0.3274
	IR									
	0.3290	0.3280	0.3280	0.3270	0.3270	0.3260	0.3240	0.3240	0.3240	0.3263
RMJLPE	EC									
	0.3200	0.3200	0.3200	0.3190	0.3190	0.3180	0.3180	0.3180	0.3170	0.3188
	IR									
	0.3280	0.3280	0.3260	0.3270	0.3260	0.3250	0.3250	0.3250	0.3250	0.3261
RZ67ZA	HS-GC/FID									
	0.3350	0.3360	0.3360	0.3350	0.3360	0.3350	0.3370	0.3350	0.3350	0.3356
UX9MUD	EC									
	0.3360	0.3340	0.3340	0.3340	0.3330	0.3310	0.3320	0.3310	0.3290	0.3327
	IR									
	0.3270	0.3250	0.3250	0.3240	0.3240	0.3230	0.3220	0.3210	0.3210	0.3236
V8FJEB	EC									
	0.3360	0.3350	0.3350	0.3340	0.3350	0.3350	0.3340	0.3330	0.3350	0.3347
	IR									
	0.3340	0.3310	0.3300	0.3300	0.3300	0.3280	0.3270	0.3280	0.3260	0.3293

TABLE 1- Item 1 - Breath Port

WebCode		Preparation Target BrAC: 0.34 g/210L									Mean
V9L43B	EC										
	0.3310	0.3310	0.3290	0.3280	0.3280	0.3290	0.3270	0.3270	0.3250		0.3283
	IR										
	0.3300	0.3290	0.3280	0.3270	0.3270	0.3260	0.3260	0.3240	0.3240		0.3268
WC2VT4	EC										
	0.3410	0.3400	0.3410	0.3400	0.3390	0.3380	0.3390	0.3340	0.3340		0.3384
WJZKA8	IR										
	0.3200	0.3200	0.3200	0.3190	0.3190	0.3170	0.3170	0.3160	0.3190		0.3186
WU7487	IR										
	0.3200	0.3210	0.3230	0.3230	0.3260	0.3230	0.3270	0.3230	0.3280		0.3238
XDCXDG	IR										
	0.3380	0.3340	0.3360	0.3300	0.3320	0.3320	0.3310	0.3320	0.3320		0.3330

Statistical Analysis for Item 1

Grand Mean	0.3293	Number of Entries Included	42
Standard Deviation	0.0076	Number of Entries Excluded	3

Number of entries may add up to more than the total number of participants because participants can report results for multiple methods.

TABLE 1- Item 2 - Breath Port

WebCode	Preparation Target BrAC: 0.10 g/210L									Mean	
2FPYM6	EC										
	0.0960	0.0960	0.0950	0.0940	0.0950	0.0940	0.0940	0.0950	0.0940	0.0948	
	IR										
	0.0920	0.0920	0.0920	0.0910	0.0910	0.0910	0.0900	0.0910	0.0910	0.0912	
32ZJYW	IR										
	43.90	43.60	43.70	43.50	43.20	43.00	43.60	43.00	43.20	43.41	X
4DTZNX	EC										
	0.0910	0.0940	0.0930	0.0930	0.0960	0.0920	0.0950	0.0950	0.0930	0.0936	
	IR										
	0.0920	0.0930	0.0930	0.0910	0.0940	0.0930	0.0930	0.0930	0.0930	0.0928	
4MXAT2	EC										
	0.0930	0.0940	0.0930	0.0930	0.0920	0.0920	0.0940	0.0930	0.0920	0.0929	
	IR										
	0.0920	0.0940	0.0930	0.0930	0.0930	0.0930	0.0920	0.0920	0.0920	0.0927	
6DV3ZN	IR										
	0.0950	0.0930	0.0930	0.0900	0.0900	0.0890	0.0860	0.0890	0.0870	0.0902	
99NVX9	IR										
	0.0970	0.0960	0.0960	0.0950	0.0950	0.0960	0.0950	0.0960	0.0960	0.0958	
AAC2JG	IR										
	0.0860	0.0890	0.0920	0.0890	0.0920	0.0890	0.0930	0.0920	0.0870	0.0899	
B7TDCP	IR										
	0.0930	0.0920	0.0920	0.0910	0.0920	0.0910	0.0910	0.0910	0.0900	0.0914	
BE2PR9	IR										
	0.1010	0.1000	0.1010	0.1010	0.1000	0.1010	0.1010	0.1010	0.1000	0.1007	
BFCPQN	EC										
	0.0920	0.0930	0.0930	0.0930	0.0930	0.0920	0.0910	0.0920	0.0920	0.0923	
	IR										
	0.0920	0.0910	0.0920	0.0910	0.0910	0.0910	0.0910	0.0920	0.0910	0.0913	
BXWHC7	IR										
	0.1000	0.0980	0.0990	0.0980	0.0990	0.0980	0.0990	0.0980	0.0990	0.0987	
C9UECM	EC										
	0.0920	0.0920	0.0920	0.0930	0.0930	0.0930	0.0920	0.0920	0.0920	0.0923	
	IR										
	0.0930	0.0920	0.0920	0.0920	0.0930	0.0910	0.0920	0.0920	0.0910	0.0920	
E72FXE	EC (fuel cell)										
	0.0960	0.0960	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0940	0.0951	
EJ2AYN	EC										
	0.3270	0.3250	0.3250	0.3240	0.3240	0.3240	0.3190	0.3180	0.3230	0.3232	X
	IR-										
	0.3280	0.3300	0.3300	0.3290	0.3280	0.3280	0.3270	0.3280	0.3290	0.3286	X

TABLE 1- Item 2 - Breath Port

WebCode	Preparation Target BrAC: 0.10 g/210L									Mean
EYWP8U	IR									
	0.0970	0.0960	0.0960	0.0960	0.0960	0.0950	0.0950	0.0950	0.0950	0.0957
F23AVU	IR									
	0.0940	0.0950	0.0940	0.0940	0.0950	0.0940	0.0940	0.0940	0.0930	0.0941
FRCZ97	IR									
	0.0940	0.0940	0.0940	0.0932	0.0936	0.0930	0.0928	0.0915	0.0928	0.0932
FTQB2J	EC/IR									
	0.0940	0.0930	0.0930	0.0930	0.0930	0.0920	0.0930	0.0930	0.0930	0.0930
GCGPB2	IR									
	0.0940	0.0940	0.0940	0.0940	0.0940	0.0940	0.0950	0.0940	0.0940	0.0941
GUDARM	IR									
	0.0920	0.0920	0.0920	0.0920	0.0920	0.0920	0.0920	0.0920	0.0920	0.0920
HYNM9Z	IR									
	0.0990	0.0980	0.0990	0.0990	0.1000	0.0980	0.1000	0.0980	0.0990	0.0989
K976GP	IR - Intoxilyzer 8000									
	0.0960	0.0960	0.0950	0.0960	0.0950	0.0960	0.0940	0.0950	0.0940	0.0952
KYFMZV	IR									
	0.0940	0.0940	0.0950	0.0960	0.0960	0.0960	0.0950	0.0960	0.0960	0.0953
L2ZQAE	IR - CMI Intoxilyzer 8000									
	0.0920	0.0930	0.0910	0.0920	0.0930	0.0920	0.0920	0.0930	0.0950	0.0926
PJMFVH	EC									
	0.0920	0.0920	0.0900	0.0920	0.0910	0.0920	0.0910	0.0910	0.0910	0.0913
	IR									
	0.0920	0.0920	0.0920	0.0910	0.0910	0.0910	0.0900	0.0900	0.0900	0.0910
RMJLPE	EC									
	0.0910	0.0910	0.0920	0.0900	0.0910	0.0890	0.0900	0.0910	0.0900	0.0906
	IR									
	0.0930	0.0920	0.0920	0.0910	0.0920	0.0910	0.0910	0.0910	0.0900	0.0914
RZ67ZA	HS-GC/FID									
	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950
UX9MUD	EC									
	0.0940	0.0930	0.0930	0.0930	0.0930	0.0940	0.0930	0.0930	0.0930	0.0932
	IR									
	0.0930	0.0920	0.0920	0.0920	0.0920	0.0920	0.0920	0.0910	0.0910	0.0919
V8FJEB	EC									
	0.0940	0.0950	0.0930	0.0930	0.0940	0.0930	0.0930	0.0940	0.0920	0.0934
	IR									
	0.0960	0.0940	0.0920	0.0920	0.0930	0.0930	0.0930	0.0910	0.0930	0.0930

TABLE 1- Item 2 - Breath Port

WebCode		Preparation Target BrAC: 0.10 g/210L									Mean
V9L43B	EC										
	0.0920	0.0910	0.0920	0.0930	0.0930	0.0940	0.0920	0.0920	0.0920		0.0923
	IR										
	0.0920	0.0910	0.0890	0.0910	0.0910	0.0910	0.0900	0.0910	0.0900		0.0907
WC2VT4	EC										
	0.1000	0.1020	0.0990	0.0990	0.0990	0.0980	0.0990	0.0980	0.0980		0.0991
WJZKA8	IR										
	0.0930	0.0920	0.0930	0.0930	0.0910	0.0930	0.0930	0.0920	0.0920		0.0924
WU7487	IR										
	0.0870	0.0890	0.0920	0.0910	0.0950	0.0910	0.0940	0.0920	0.0940		0.0917
XDCXDG	IR										
	0.0950	0.0930	0.0950	0.0920	0.0940	0.0930	0.0940	0.0950	0.0930		0.0938

Statistical Analysis for Item 2

Grand Mean	0.0934	Number of Entries Included	42
Standard Deviation	0.0025	Number of Entries Excluded	3

Number of entries may add up to more than the total number of participants because participants can report results for multiple methods.

TABLE 1-Breath Port Summary Statistics

Response Summary	Breath Port Item 1	Breath Port Item 2
Preparation Target BrAC (g/210L):	**0.34**	**0.10**
Grand Mean	0.3293	0.0934
Standard Deviation	0.0076	0.0025

Additional Comments

TABLE 2

WebCode	Additional Comments
4DTZNX	Item 1 simulator: [serial number], Thermometer: [serial number]. Item 2 simulator: [serial number], Thermometer: [serial number]. Instrument: [serial number]. U.O.M. for measurements ≥ 0.16% = ± 0.012. U.O.M. for measurements between 0.09-0.15% = ± 0.007. [From Table 1 - Item 1 - Breath Port: "(ABA mode)"]
99NVX9	Item 1 analyzed on 6/22/18, Item 2 analyzed on 6/24/18
9WRZNK	Instrument Used: Intoxilyzer 5000EN. Instrument [Serial Number]. Accuracy Check: 0.079, 0.080; Guth 0.08%, lot 16180 exp. 8/1/2018
EJ2AYN	I waited 3 minutes between test and test in IR. in the EC it is expected between test and test 5 minutes. Environmental conditions : Temperature: 24.2 ° C; Relative Humidity: 60%. First the IR measurements were made and then the EC. the reference material is uncovered at a temperature of 20 ° C
FRCZ97	Simulator used Guth Model 2100 and tested with Drager 7110 MK5.
GUDARM	Multi-vessel wet calibrator and dragger 9510 instrument.
HD4VWB	used instrument [serial number]
K976GP	Due to instrument related problem: Breath port measurements conducted on [serial number]. Calibration port measurements conducted on [serial number]
L2ZQAE	While performing assessment of item 1 through the calibration port, I miscounted the number of trials completed, doing eight instead of nine. I didn't realize this until I started with item 2. I finished assessment of item 2 and waited one hour before assessing item 1 for a ninth time. The final sim temp and finish time reflect the time and temp that this ninth assessment was performed. The previous eight assessments ended at 12:47 hrs.
RZ67ZA	Our laboratory analyzes alcohol reference solutions by HS-GC/FID. These testing solutions were analyzed on the HS-GC/FID as a proficiency test of our ability to analyze alcohol reference solutions.
WC2VT4	Uncertainty for Item 1 is ± 0,011 g/210L. Uncertainty for Item 2 is ± 0,005 g/210L. Temperature 21,9 °C ± 0,4 °C. Humidity 51,0% HR ± 1,4% HR

-End of Report-
(Appendix may follow)

Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

Test No. 18-568: Breath Alcohol Simulator Solution Analysis

DATA MUST BE RECEIVED BY ***June 25, 2018*** TO BE INCLUDED IN THE REPORT

Participant Code: WebCode:

Accreditation Release Statement

CTS submits external proficiency test data directly to ASCLD/LAB, ANAB, and A2LA. Please select one of the following statements to ensure your data is handled appropriately.

☐ This participant's data is intended for submission to ASCLD/LAB, ANAB, and/or A2LA.
(Accreditation Release section on the last page must be completed and submitted.)

☐ This participant's data is NOT intended for submission to ASCLD/LAB, ANAB or A2LA.

Instructions

Test the simulator solutions provided using either the calibration port or the breath port of your breath test instrument following your laboratory's procedure (except where noted).

Note:

-Please review the data sheet in its entirety prior to beginning analysis as there are specific instructions within the reporting sections. Be advised that there are separate reporting sections for results obtained using the calibration port versus the breath port.

Items Submitted (Sample Pack BR):

Item 1: Breath Alcohol Simulator Solution I.

Item 2: Breath Alcohol Simulator Solution II.

Date Samples Received: _____ **Date(s) Samples Analyzed:** _____

Please return all pages of this data sheet.

Printed: July 26, 2018

Participant Code:
WebCode:

Calibration Port Measurements

Report 9 consecutive readings for each Item to three decimal places in grams per 210 liters (you may need to convert). Record the simulator temperature before starting, every three readings, and after the last reading.

Method of Analysis (i.e. IR, EC, etc.): _____

If additional methods of analysis are used, copy this page or attach your own form following this layout.

Calibration Port - Item 1 Analysis

Start Sim. Temp: _____ Start Time: _____

1 _____ 2 _____ 3 _____ Sim. Temp: _____

4 _____ 5 _____ 6 _____ Sim. Temp: _____

7 _____ 8 _____ 9 _____

Final Sim. Temp: _____ Finish Time: _____

**** Please allow at least 1 hour between finishing Item 1 and starting Item 2.****

Calibration Port - Item 2 Analysis

Start Sim. Temp: _____ Start Time: _____

1 _____ 2 _____ 3 _____ Sim. Temp: _____

4 _____ 5 _____ 6 _____ Sim. Temp: _____

7 _____ 8 _____ 9 _____

Final Sim. Temp: _____ Finish Time: _____

Please return all pages of this data sheet.

Printed: July 26, 2018

Participant Code:
WebCode:

Breath Port Measurements

Report 9 consecutive readings for each Item to three decimal places in grams per 210 liters (you may need to convert). Record the simulator temperature before starting, every three readings, and after the last reading.

Method of Analysis (i.e. IR, EC, etc.): _____

If additional methods of analysis are used, copy this page or attach your own form following this layout.

Breath Port - Item 1 Analysis

Start Sim. Temp: _____ Start Time: _____

1 _____ 2 _____ 3 _____ Sim. Temp: _____

4 _____ 5 _____ 6 _____ Sim. Temp: _____

7 _____ 8 _____ 9 _____

Final Sim. Temp: _____ Finish Time: _____

**** Please allow at least 1 hour between finishing Item 1 and starting Item 2. ****

Breath Port - Item 2 Analysis

Start Sim. Temp: _____ Start Time: _____

1 _____ 2 _____ 3 _____ Sim. Temp: _____

4 _____ 5 _____ 6 _____ Sim. Temp: _____

7 _____ 8 _____ 9 _____

Final Sim. Temp: _____ Finish Time: _____

Additional Comments

_____

_____

_____

_____

Return Instructions: Data must be received via online data entry, fax (please include a cover sheet), or mail by ***June 25, 2018*** to be included in the report. Emailed data sheets are not accepted.

QUESTIONS?
TEL: +1-571-434-1925 (8 am - 4:30 pm EST)
EMAIL: forensics@cts-interlab.com
www.ctsforensics.com

Participant Code:

ONLINE DATA ENTRY: www.cts-portal.com

FAX: +1-571-434-1937

MAIL: Collaborative Testing Services, Inc.
P.O. Box 650820
Sterling, VA 20165-0820 USA

Please return all pages of this data sheet.

Printed: July 26, 2018

Collaborative Testing Services ~ Forensic Testing Program

RELEASE OF DATA TO ACCREDITATION BODIES

The following Accreditation Releases will apply only to:

Participant Code: WebCode:

for Test No. **18-568: Breath Alcohol Simulator Solution Analysis**

This release page must be completed and received by ***June 25, 2018*** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

Have the laboratory's designated individual complete the following steps
only if your laboratory is accredited in this testing/calibration discipline
by one or more of the following Accreditation Bodies.

Step 1: Provide the applicable Accreditation Certificate Number(s) for your laboratory

ANAB Certificate No. _____
(Include ASCLD/LAB Certificate here)

A2LA Certificate No. _____

Step 2: Complete the Laboratory Identifying Information in its entirety

Signature and Title _____

Laboratory Name _____

Location (City/State) _____

Accreditation Release

Return Instructions

Please submit the completed Accreditation Release at the same time as your full data sheet. See Data Sheet Return Instructions on the previous page.

Questions? Contact us 8 am-4:30 pm EST
Telephone: +1-571-434-1925
email: forensics@cts-interlab.com

Please return all pages of this data sheet.

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