# Innovative Internal standard method for Agilent Chemstation

### 1. Place a folder with measurements by ChemStation

▶   ☑ ▶ =   DATA Файл Главная	Поделиться	Вид					
Закрепить на панели Ко быстрого доступа	опировать Вставить Буфер обмена	🐰 Вырезать 🚾 Скопировать путь й 🖻 Вставить ярлык	ереместить Копировать в * в * Упоряд	Удалить Переименовать дочить	Гоздать элемент Новая папка Создать	Свойства Сойства Открыть Свойства Открыть	<ul> <li>Выделить все</li> <li>Снять выделение</li> <li>Обратить выделение</li> <li>Выделить</li> </ul>
← → ∽ ↑ 🖡	Этот компы	отер > Windows (C:)	) > Chem32 > 1 > DA	ΓA			
<b>—</b> Рабочий стол	л 🖈 ^	Имя	^	Дата изменения	Тип	Размер	
🖊 Загрузки	*	2022-06-14 SIS		17.06.2022 16:47	Папка с файлами		
🗐 Документы	*	DEMO		31.07.2020 11:27	Папка с файлами		

#### It will appear in ChemStation

🔐 Instrument 1 (offline): Data Analysis							- 0 ×
File Method Sequence Graphics Integration Ca	libration Report Batch View	v Abort Help					
Signals 🦾 🔯   Methods 🍖 🛃 🕥 RU	N.M I	1 💷 🕗					
Data Analysis 🛛 📮 Data Analysis							
/		) 🚺 Seq 🏭 🖫		Ready/Reproce	ss Data Mode		
C:\CHEM32\1\DATA Date T	ime Operator	Vial Data File	Sample Name Me	thod Name Man	Sample Info Sample Am	ISTD Amount Multiplier Dilution	n ECM
Integration							
	Report: Short 📑	No Signal	s Loaded 🔹 👻	🛃 😔 😪 🔁 🛛	🔽 🖄 🎢 🧮 🕅	L.	

# 2. Download files

Unstrument 1 (offline): Data Analysis	3-37	٥	×
File Method Sequence Graphics Integration Calibration Report Batch View Abort Help			
Signals 🦙 🙀 Methods 🖙 🛃 🏠 🕼 RUN.M			
Data Analysis 4 Data Analysis			ų.
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C:\CHEM32\1\DATA			
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Help the man the second			
🛄 🕼 📈 Report: Short 📄 💪 🗃 🇞 🕴 No Signals Loaded 🛛 🖉 🛃 🗞 🖓 🕅 🕅 🕅 🕅 🕅 🕅 🕅			
Data methods			
Hethod and Run Control			
Data Analysis			
Report Layout			
30 *			
Welcome to GC ChemStation.	T Instrum	nent 1	Ready

# 3. Files will appear here

🛄 Instrument 1 (offline): Data Analysi	is													) ×
File Method Sequence Graphics	s Integration Calibration Repo	rt Batch View Abort	Help											
Signals 🥁 🔤 Methods 🚮 🛚	RUN.M													
Data Analysis 🛛 📍	SINGLERUNS: 2022-06-14 SIS	No. 44 NN N. mm												4
1	Use current method		Seq 🛗 🛗 🛗		O Ready	y/Reproce:	ss Data Mode							
C:\CHEM32\1\DATA	Date Time	Operator Vial	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ECM		
Single Runs	+ 14.06.2022 11:31:44	Vial 10	5IG1G1001	ps 1	VODKA_2019.M	-		0	0	0	0	-		
	+ 14.06.2022 12:08:05	Vial 101	SIG1G100175	рв 1	VODKA_2019.M	-		0	0	0	0	-		
	+ 14.06.2022 12:38:52	Vial 101	SIG1G100175	. calvados	VODKA_2019.M	-		0	0	0	0	-		
	+ 14.06.2022 13:13:21	Vial 101	SIG1G100175	konak	VODKA_2019.M	-		0	0	0	0	-		
	+ 14.06.2022 13:45:56	Vial 101	SIG1G100175	. brendi	VODKA_2019.M	-		0	0	0	0	-		
	+ 14.06.2022 14:17:06	Vial 101	SIG1G100175	pB	VODKA_2019.M	-		0	0	0	0	-		
	+ 14.06.2022 14:47:57	Vial 101	SIG1G100175	. Moscoviya - 95	VODKA_2019.M	-		0	0	0	0	-		
	+ 14.06.2022 15:19:06	Vial 101	SIG1G100175	. 2	VODKA_2019.M	-		0	0	0	0	-		
		1												
	Integration	i M Signal												
	E D Report: Shot	PA4	@ EID1 A (202	2-0 IG1G1001752 D					2					
1			101H, (202						AA					
	FID1 A, (2022-06-14 SI	IS\SIG1G1001752.D)												
	pA _	1 - 5 L												
	18 –	alle alle												
	17	LINI C												
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	, [4]						-							
Data Methods														
	File Information	n			# 1	ime	Area	Height	Width Symr	netry				
Fiethod and Run Control	GC-File SIG1G1001752.D	)			▲ <u>1 4</u>	1.567	105.2	37	0.0432 0.8	04				
Data Analysis	File Path C:\CHEM32\1\D/	ATA\2022-06-14 SIS\			2 4	1.827	2.8E-1	1.2E-1	0.0313 0.9	26				
	Date 14-Jun-22, 11:31: Sample ps 1	:44			3 4	.962	22//32.5	63318.5	0.0523   0.6	58				
Report Layout	Sample Info													
>>>	Barcode				- I									
» *	Barcode				<u> </u>									
	Barcode				<u> </u>									

#### 4. Select a file to be used as a calibration

File Method Sequence Graphics Integration Calibration Report Batch View Abort Help III 🕗 Signals 🕅 🕅 Methods 🆙 🛃 🏫 💓 RUN.M ata Analysis SINGLERUNS: 2022-06-14 SIS - 1 Seq 🖪 🖪 🚽 🚽 Ready/Reprocess Data Mode 0 : Use current method C:\CHEM32\1\DATA Vial Data File Method Name Date Time 1 Operator Sample Name Man... Sample Info Sample Am... ISTD Amount Multiplier Dilution ECM ----= 2022-06-14 SIS + 14.06.2022 11:31:44 Vial 101 SIG1G1001752.D VODKA\_2019.M -0 0 0 -**DB 1** 0 Single Runs 🕀 🦾 DEMO + 14.06.2022 12:08:05 Vial 101 SIG1G1001753.D рв 1 VODKA\_2019.M -0 0 0 0 -+ 14.06.2022 12:38:52 Vial 101 SIG1G1001754.D calvados VODKA\_2019.M -0 0 0 0 \_ + 14.06.2022 13:13:21 Vial 101 SIG1G1001755.D konak VODKA\_2019.M \_ 0 0 0 0 -+ 14.06.2022 13:45:56 Vial 101 SIG1G1001756.D brendi VODKA\_2019.M -0 0 0 0 -+ 14.06.2022 14:17:06 0 Vial 101 SIG1G1001757.D pB VODKA\_2019.M -0 0 0 0 -+ 14.06.2022 14:47:57 Vial 101 SIG1G1001758.D Moscoviva - 95 VODKA\_2019.M -0 0 0 0 -+ 14.06.2022 15:19:06 0 Vial 101 SIG1G1001759.D 2 VODKA 2019.M -0 0 0 -Integration 🖉 Calibration 📶 Signal 📄 💪 🖪 🌯 🕴 FID1 A, (2022-0...IG1G1001757.D) 💌 🍠 🔂 😪 💊 🖓 💟 🖄 🕅 🦄 🛝 🐁 . Report: Short FID1 A, (2022-06-14 SIS\SIG1G1001757.D) pA\_ 4.478 1478 14718 4.716 **pena** 10 12 14 min 6 4 Data Methods • Method and Run Control **File Information** Time Area Height Width Ħ Symmetry GC-File SIG1G1001757.D 0.338 3.5E-1 1.4E-1 0.0311 0.872 1 . Data Analysis File Path C:\CHEM32\1\DATA\2022-06-14 SIS\ 2 0.459 1.4E-1 1.1E-1 0.0182 1.732 Date 14-Jun-22, 14:17:06 3 0.492 2.1E-1 1.1E-1 0.0295 0.491 Report Layout Sample pB 4 0.545 1.1E-1 1.1E-1 0.0171 1.823 Sample Info 5 0.571 1.1E-1 1.1E-1 0.0171 0.899 >> --Davaada C 0 500 1 75 1 1 75 1 0.0241 0.000

🎹 Instrument 1 (offline): Data Analysis

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#### 5. Go to Integration tab and click here

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🏰 Instrument 1 (offline): Data Analys	is												_	o x
File Method Sequence Graphic	s Integration Calibratio	on Report I	Batch View Abort	Help										
Signals 🦾 🔯 Methods 🦓	H 🎦 🕙 RUN.M													
Data Analysis 🛛 🖓	SINGLERUNS: 2022-06-14 S	IS												4
1	Use current method			Seq 🖪 🖥 🖬 🗃		Ready/Repro	cess Data	Mode	0					
C:\CHEM32\1\DATA	Date Time	л Ор	erator Vial	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ECM	
Single Runs	+ 14.06.2022 11:	31:44	Vial 10	1 SIG1G1001755.0	рв 1	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 12:	08:05	Vial 10	1 SIG101001753.D	рв 1	VODKA_2019.M	-		0	0	0	0		
	+ 14.06.2022 12:	38:52	Vial 10	1 .1G1G1001754.D	calvados	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 13:	13:21	Vial 10	SIG1G1001755.D	konak	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 13:	45:56	al 10	1 SIG1G1001756.D	brendi	VODKA_2019.M			0	0	0	0	-	
	+ 14.06.2022 14	4:17:06	Vial 1	01 SIG1G1001757.D	pB	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 14:	47:57	Vial 10	1 SIG1G1001758.D	Moscoviya - 95	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 15:	19:06	vial 10	1 516161001759.0	2	VODKA_2019.M	-		U	U	U	0		
	Integration de Ca	alibration 📈	Signal											
	E Report	Short	P A A	FID1 A. (2022-0	IG1G1001757.D) 💌 🧔			M 🕅 🗠	85 B.A.					
		onon												
	Auto Integrate: Fir	nd suitable integ	ration parameters for cu	irrent i										
	Chromatogram(s)													
	FID1 A, (202	2-06-14 SIS\SIC	G1G1001757.D)											
	pA : 4	етат	нон		ГОН	Tdw			Пон			тирт		
	20 - 40	heu	Dona pona		ропа	19			бута			NN CI		
	15 15	<u> </u>	A		.A.,				,			A	• •	
		4		6	8			10		12			14	min
Data Methods	•													•
8														
Method and Run Control	File II	nformation				# Time	Are	a Heigl	nt Width	Symmetry				
Data Analysis	GC-File SIG1G	1001757.D	2022 00 14 0105		<u> </u>	1 1.095	5.3E	-1 1.6E-	1 0.0546	6.643				<u> </u>
	Date 14-Jun	-22, 14:17:06	12022-00-14 313 \			3 3.482	4.7E	2.2	0.0399	0.373				
Report Layout	Sample pB					4 4.075	3.5	1.7	0.0325	0.993				
»	Sample Info				•	5 4.549	5.8	2.3	0.0365	1.287				•
						1								
<u>L</u>														

Done Auto Integrate peaks found: 12

TInstrument 1 🖸 Busy

#### 6. Create a new calibration table



# 7. A window will appear, click "OK"

Instrument 1 (	(offline): Data Analysi	is			AL	1									()	٥	×
File Method	Sequence Graphics	Integration Cal	Ibratio Repo	ort Batch View	Abort Heip												
; Signais 🕰 🔬	Miethods C		.1VI														
Data Analysis	4	SINGLERUNS: 2022-0	6-14 SIS	NI 44 N	N III i o	<b>A A A A</b>					0						4
	/	Use current method			Sei Sei			Ready/Rep	rocess Data	Mode	0						
	alibrate: Instrument 1			Operator	Vial	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ECM		^
L. 8					Vial 101	SIG1G1001752.D	рв 1	VODKA_2019.M	-		0	0	0	0	-		
🗄 🦾 DEI	New	Lalibration Lable			Vial 101	SIG1G1001753.D	рв 1	VODKA_2019.M	-		0	0	0	0	-		
	Calibration Table				Vial 101	SIG1G1001754.D	calvados	VODKA_2019.M	-		0	0	0	0	-		~
	O Manual Setup		or	n 📶 Signal													
	Automatic Setup	Level: 1		3	λ 4 @.	EID1A (2022-0 IG	1G1001752 D) 💌 🦂				x. 63						
						11017, (2022-010	131001/32.0)			<u>MIN MIN</u>	MA MAN						
	Default /	Amount: 0.000															
	Calibration Mode																
	Calculate Signals	Separately															
	OK	Cancel	Help	IS\SIG1G1001752.D)	(												
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Data Methods			File Informatio	n				# Time	Are	a Heigl	ht Width	Area% S	ymmetry				
		GC-File	SIG1G1001752.0		1			1 4.567	105	.2 37	0.0432	0.046	0.804				
Method a	nd Run Control	File Path Date	L:\LHEM32\1\D 14-Jun-22, 11:31	3414\2022-06-14 515 :44	>\			3 4.962	2.8E	-1 1.2E- 32.5 69318	0.0313	99.954	0.926				
Data Ana	lysis	Sample	рв 1														
		Sample Info															
Report La	yout	Operator															
	»	Method	VODKA_2019.M														
<u></u>															-ge Insta	ment 1	Buck

# 8. A window will appear, click "OK"



# 9. A table will appear, fill it in, click "OK"

🏨 Instrument 1 (offline): Data Analy	/sis															
File Method Sequence Graphi	cs Integratio	n Calibration Repo	rt Batch View	Abort Help												
Signals 🖳 🔤 Methods 🏹	R 🕤 🖲	RUN.M			۵.											
Data Analysis 7	SINGLERUNS	2022-06-14 SIS														4
1	Use current	t method 💌 🔣		Seq			Ready/Rep	rocess Data	Mode	0						
C:\CHEM32\1\DATA	[	Date Time 🛛 🛆	Opera or	Vial	Data File	Sample Name	Method Name	'.an	Sample Info	Sample Am	ISTD Amount	Multiplier	r Dilution	ЕСМ		
	+ 1	4.06.2022 11:31:44		Vial 101	SIG1G1001752.D	рв 1	VODKA_2019.M	-		0	0	0	0	-		
	+ 1	4.06.2022 12:08:05		Vial 101	SIG1G1001753.D	рв 1	VODKA_2019.M	-		0	0	0	0	-		
	+ 1	4.06.2022 12:38:52		Vial 101	SIG1G1001754.D	calvados	VODKA_201.J.M	-		0	0	0	0	-		
	÷ 1	4.06.2022 13:13:21		Vial 101	SIG1G1001755.D	konak	VODK2019.M	-		0	0	0	0	-		
	+ 1	4.06.2022 13:45:56		Vial 101	SIG1G1001756.D	brendi	DKA_2019.M	-		0	0	0	0	-		
		4.06.2022 14:17:06		Vial 101	SIG1G1001757.D	рВ	VODKA_2019.M	-		0	0	0	0	-		
		4.06.2022 14:47:57		Vial 101	SIG1G1001758.D	Moscoviya 95	VODKA_2019.M	-		0	0	0	0	-		
	+ 1	4.06.2022 15:19:06		Vial 101	SIG1G1001759.D	2	VODKA_2019.M	-		0	0	0	0	-		
							-		1	1		-				
	-															_
	Integra	ition	📶 Signal													
		Report	t: Short	<b>a</b> a	13 B											
			- 21 -			Quenieu	- da ==									
	FIDTA, (2	J22-01G1G1001/57.D)	L 😪 🖓		4 9	• Overview	• 📲 🎟									
	🖹 Calibrat	ion Table	_											c		3
	Enter	Delete Insert	Prot	OK He	lp											
	#	RT Signal Compo	und Lvl	Amt[мг/дм3]	Area Rsp.Fac	tor Ref ISTD #	_			<u> </u>		1			D. ( 107D	
	1	1.095 FID1 A	1	0.000	76489854e-1 0.0	000 No No		#	3 492 FID1 A	Compound		<u>/дм3]</u> 9.900	Area 4 2736621	Asp.Factor	No No	#
	2	3.134 FID1 A	1	0.000 7	41677344e-1 0.0	00 No No	_		4 075 FID1 A	метилацетиц		9,200	3.5017428	2.233	No No	$\vdash$
	4	4 075 FID1 A	1	0.000	3.5017428 0.0	100 No No	-	3	4.549 FID1 A	этилацетат	1	9.000	5.7722983	1.559	No No	
	5	4.549 FID1 A	1	0.000	5.7722983 0.0	000 No No	-	4	4.632 FID1 A	метанол	1 1.0	J200e-2 4	4.9356804	2.2699e-4	No No	
	6	4.632 FID1 A	1	0.000	44.9250994 9.0	No No		5	4.897 FID1 A	2-пропанол	1	8.200	5.4521799	1.504	No No	
	• 7	4.897 FID1 A	1	0.000	5.4521799 0.0	000 No No	_	6	5.032 FID1 A	этанол	1	40.000 190	1.1563000	1.9812e-4	No No	$\vdash$
Data Methods	8	5.032 FID1 A	1	0.000	301.1563000 0.0	000 No No	_		7.057 FID1 A	1-пропанол	1	8.000	7.2669249	1.101	No No	$\vdash$
	10	8 778 FID1 A		0.000	7.2663243 0.0		-	9	11.063 FID1 A	изоругиловыи с 1.6итанов	1	8 100	8.0548649	1.002		$\vdash$
🦣 Method and Run Control	11 1	1.063 FID1 A	1	0.000	8.0548649 0.0	00 No No	-	10	13.337 FID1 A	изоамиловый с	πν 1	8,100	8.3207760	9.7347e-1	No No	$\square$
	12 1	3.337 FID1 A	1	0.000	8.3207760 0.0	000 No No										
📆 Data Analysis							_									
Report Layout																
» *																
l														-0-		1

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#### 10. A window will appear, click "OK"

Instrument 1 (offline): Data Analysis



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# 11. A window will appear, click "OK"



TInstrument 1 🖸 Read

# 12. Select the sample "Calvados"

Instrument 1 (offline): Data Analys	is											( <u>)</u>	
File Method Sequence Graphic	s Integration Calibration Repo	ort Batch View Abort H	elp										
Signals 🧖 🔯 Methods 🦓	H 🕤 🛄 RUN.M												
Data Analysis 🛛 🕈	SINGLERUNS: 2022-06-14 SIS												9
2	Use current method 🔹 🔣		Seq 🏭 🔛 🖽 🖽	i 🔛 冷 Θ 🛈	Ready/Repro	cess Data	Mode	0					
C:\CHEM32\1\DATA	Date Time	Operator Vial	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ECM	
2022-06-14 SIS	+ 14.06.2022 11:31:44	Vial 101	SIG1G1001752.D	рв 1	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 12:08:05	Vial 101	SIG1G1001753.D	рв 1	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 12:38:52	Vial 101	SIG1G1001754.D	calvados	VODKA_2019.M	17 <u>74</u>		0	0	0	0	-	
	+ 14.06.2022 13:13:21	Vial 101	SIG1G1001755.D	konak	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 13:45:56	Vial 101	SIG1G1001756.D	brendi	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 14:17:06	Vial 101	SIG1G1001757.D	pВ	VODKA_2019.M			0	0	0	0	-	
	+ 14.06.2022 14:47:57	Vial 101	SIG1G1001758.D	Moscoviya - 95	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 15:19:06	Vial 101	SIG1G1001759.D	2	VODKA_2019.M	-		0	0	0	0	-	
Data Methods	Image: Short         Short           FID1 A. (2022-06-14 SI           18           17           18           18           18           19           18           19           18           19           18           19           18           19           14	ISISIGIG1001764.D) USUSIGIG1001764.D) USUBIDITE - 1.209 USUBIDITE	FID1 A, (2022-01	IG1G1001754.D)	.769 · NJ OGYTHIO BILLI ( CHIND		L0 01	1043 - 1-6rrituon	12		713.080 8.320 - изовимповий слирт		514.710 514.804
													<u> </u>
Image: Second system         Image: Second system	File Information GC-File SIG1G1001754.C File Path C:\CHEM32\1\D Date 14Jun-22, 12:38 Sample Info Barcode	n ) )ATA\2022-06-14 SIS\ ;52		•	#         Time           1         2.341           2         2.415           3         2.57           4         2.618           5         3.117           6         3.183	Area 1.7E-1 2.2E-1 2.1E-1 3.3E-1 1.1E-1 1.9E-1	Height 8.8E-2 1E-1 9.6E-2 1E-1 9.9E-2 1.1E-1	Width 0.0249 0.03 0.0281 0.0414 0.0157 0.0301	Symmetry 0.477 1.33 6.527 1.036 2.35 4.482				•
Integration done.												Instrumer	nt 1 💽 Ready

#### 13. Select "Print report"

🕌 Instrument 1 (offline): Data Analys	sis												-	٥	×
File Method Sequence Graphic	cs Integration Calibration Re	eport Batch View	Abort Help												
Signals 🖾 🔯   Methods 🧞	🛃 😭 🔟 RUN.M	Print Report		<u></u>											
Data Analysis 🛛 🖓	SINGLERUNS: 2022-06-1 SIS	Specify Report													9
1	Use current method	System Suitability	> Se			Ready/Repr	ocess Data	Mode (	0						
C:\CHEM32\1\DATA	Date Time	Operator	Vial	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ECM		
Single Runs	+ 14.06.2022 11:31:44		Vial 101	SIG1G1001752.D	рв 1	VODKA_2019.M	-		0	0	0	0	-		
E DEMO	+ 14.06.2022 12:08:05		Vial 101	SIG1G1001753.D	рв 1	VODKA_2019.M	-		0	0	0	0	-		
	► 14.06.2022 12:38:52	2	Vial 101	SIG1G1001754.D	calvados	VODKA_2019.M	-		0	0	1	1	-		
	+ 14.06.2022 13:13:21		Vial 101	SIG1G1001755.D	konak	VODKA 2019.M	-		0	0	0	0	-		

# The report will appear below

				<u> </u>									
Д	SINGLERUNS: 2022-06-14 SIS	NAN		Sen 111 11 11 14		Ready/Ren	ncess Data	Mode	0				
132\1\DATA	Date Time	Operator	Vial	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ECM
-06-14 SIS	+ 14.06.2022 11:31:44		Vial 101	G1G1001752.D	ps 1	VODKA_2019.M	-		0	0	0	0	-
	+ 14.06.2022 12:08:05		Vial 101	SIG. 1001753.D	рв 1	VODKA_2019.M	-		0	0	0	0	-
	+ 14.06.2022 12:38:52		Vial 101	SIG1G1 1754.D	calvados	VODKA_2019.M	12		0	0	1	1	-
	+ 14.06.2022 13:13:21		Vial 101	SIG1G100175.0	konak	VODKA_2019.M	-		0	0	0	0	-
	+ 14.06.2022 13:45:56		Vial 101	SIG1G1001756.D	brendi	VODKA_2019.M	-		0	0	0	0	-
	+ 14.06.2022 14:17:06		Vial 101	SIG1G1001757.D	рВ	VODKA_2019.M			0	0	0	0	-
	+ 14.06.2022 14:47:57		Vial 101	SIG1G1001758.D	scoviya - 95	VODKA_2019.M	-		0	0	0	0	-
	+ 14.06.2022 15:19:06		Vial 101	SIG1G1001759.D	2	VODKA_2019.M	-		0	0	0	0	-
	Integration S Calibratio	n <u>M</u> Signal						<u></u>					
	Integration Calibratio	n 🕂 Signal	-06-14 51	IS\SIGIGI001754.	D			<u>n 2</u> 1.	<u>1</u>				
	Integration         Calibratio           Integration         Integration           Integration	n Signal	<b>D. 3</b>	5	D								
	Integration Calibratio	n M Signal	-06-14 51	IS\SIGIGI001754.	D			<u>m 2 –</u>					
	Integration         Calibratio           Acq         Operator           Acq         Instrument	n M Signal	-06-14 sr	IS\SIGIGI001754.	D D pocation : Via	<b>31</b>		<u>m 2 –</u>					
	Calibration ♣ Calibration Cal col col report Data file C:\CHEM32\ Sample Name: calvado Acq. Operator Acq. Operator Acq. Instrument Injection Date	Signal           I\DATA\2022           I <t< td=""><td>-06-14 s1</td><td>IS\SIGIGI001754.</td><td>D pocation : Via Inj : 1 Values : 1</td><td><b>3   -0, -0, -1, -2</b> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	-06-14 s1	IS\SIGIGI001754.	D pocation : Via Inj : 1 Values : 1	<b>3   -0, -0, -1, -2</b> 							
	Integration     Calibratio     Calibratio     Calibratio     Calibratio     Calibratio     Calibratio     Calibratio     Calibratic     Calibratic	n Signal           1\DATA\2022           :	-06-14 SI	IS\SIGIGIO01754.	D Jocation : Via Inj : 1 Volume : 1 p	<b>3 3 3 4 1</b> <b>1</b> 101 11							
	Acq. Operator Acq. Mestrod Last carbon Acq. Mestrod Acq. Mestrod Last changed	n 🛄 Signal	-06-14 SI	IS/SIGIGIO01754. IS/SIGIGIO01754. IS/VOPKA_2019.M 28	D 	<b>5  ~ ~)</b> ^ 1		<u></u>					
	Data File C:\CHEM32\ Sample Name: calvado Acq. Operator Acq. Operator Acq. Instrument Injection Date Acq. Method Last changed Acalysis Method	<pre>n Signal 1\DATA\2022 s 1\DATA\2022 s 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.</pre>	-06-14 s1 -06-14 s1 2 12:38:1 (1)METHOI 2 14:22: (1)DATA)	IS\SIGIGIO01754. 52 II 52 II 53 VVODKA_2019.M 8 8 8 8 8 8 9 8 9 8 9 9 9 9 9 9 9 9 9	D Jocation : Via Inj : l Volume : l p SIGIGI001752.D	5 3 3 3 3 2 2							
and Run Control	Integration     Calibratio     Calibratio	N Kignal 1/DATA\2022 1/DATA\2022 1 Instrumen 14.06.202 C:\CHEM32 08.06.202 25.06.201	-06-14 SI -06-14 SI 2 12:38:5 \1\METHOI 2 14:22: \1\DATA\2 9 H2	IS\SIGIGIO01754. IS\SIGIGIO01754. 52 II JS\VODRA_2019.M 88 0022-06-14 SIS\S 88	D Jocation : Via Inj : 1 Volume : 1 p Sicilalo01752.D	<u>5 3 3 3 7 7</u> 							
and Run Control	Integration     Calibratio     Calibratio	n Signal	t 1 2 12:38:5 (1/METHOI 2 14:22:5 9 H2 1001754D)	IS\SIGIGI001754. IS\SIGIGI001754. IS\VOCKA_2019. N 28 0022-06-14 SIS\S 28	D pocation : Via Inj : 1 Volume : 1 p SIGIGI001752.D			<u>1 - 1</u>					
and Run Control	Integration     Calibratio     Au Low La Integration     Data File C:\CHEM32N     Sample Name: calvado     Acq. Operator     Acq. Instrument     Injection Date     Acq. Method     Last changed     Analysis Method     Last changed     Method Info     FiD1A, (202     FA j	n ( Signal ) ) ) ) ) ) ) ) ) ) ) ) )		IS\SIGIGIO01754. IS\SIGIGIO01754. 52 I DS\VODKA_2019.M 2022-06-14 SIS\S 28	D Jocation : Via Inj : l Volume : l p SiGiGl001752.D	 		<u></u>					

# 14. Select "Calibration settings..."

👑 Instrument 1 (offline): Data Analy	sis												_	ſ	כ	$\times$
<u>File M</u> ethod <u>S</u> equence <u>G</u> raphie	cs <u>I</u> ntegration	<u>Calibration</u> <u>Report</u> <u>Batch</u> <u>View</u> <u>A</u>	oort <u>H</u>	elp												
Signals 🕅 📷 Methods 😽	H 📬 🔍	New Calibration Table		II 🕖												
Data Analysis 4	SINGLERUNS: 20	Delete Calibration Table														4
1	Use current m	Recalibrate		Seg 🖪 🖪 🗐 🦪		Ready/Rep	process Data	Mode	0							
C:\CHEM32\1\DATA		Add Level							•				_	_	_	
😑 🦾 2022-06-14 SIS	Dat	Add Peaks	1	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ЕСМ			
Single Runs	+ 14	Calibration Settings	101	SIG1G1001755.D	konak	VODKA_2019.M	-		0	0	1	1	-			
🗄 🦾 DEMO			101	SIG1G1001756.D	brendi	VODKA_2019.M	-		0	0	1	1	-			
	+ 14.0	Advanced Calibration /	101	SIG1G1001757.D	pB Managarithm 05	VODKA_2019.M	-		0	0	0	0	-			
		Calibration Table Options >	101	SIG1G1001758.D	Moscoviya - 95	VODKA_2019.M			0	0	1	1	_			
	± _ 14.0	✓ Select Peak	101	516161001/59.0	2	VODKA_2019.M			U	0	1	1		1		~
	<b>P</b>	Delete Peaks											_			_
		Add Peaks														
	i 🗛 🗞 🐺	Recalibrate Compounds		👌 🖪 👫												
	EID1A (202	Colliburation Table			- Overview	- da. ==										
	; 1018, (202	Campation lable	-		Overview	<b>78.</b>										
	Calibration	Compound Groups													ē	8
	Enter	Signal Details	$H_{-}$	Help												
		1821 FID1 A Laueragegrug 1	<u>- Г/дм3</u> 9.80	Area Rsp.Facto A 2736621 2 29	NO NO NO	1										
	2 4.0	075 FID1 А метилацетат 1	9.20	0 3.5017428 2.62	7 No No	-										
	3 4.5	549 FID1A этилацетат 1	9.00	0 5.7722983 1.55	i9 No No											
	4 4.6	532 FID1 А метанол 1	1.0200e 8.20	2 44.9356804 2.2699e	4 No No 4 No No	-										
	6 5.0	032 FID1 А этанол 1	40.00	0 1901.1563000 1.9812e	4 No No	-										
	7 7.0	057 FID1 А 1-пропанол 1	8.00	0 7.2669249 1.10	11 No No											
	8 8.7	778 FID1 А изобутиловый спи 1	8.00	0 7.9816589 1.00	12 No No	-										
	10 13.3	337 FID1A изоамиловый спи 1	8.10	0 8.3207760 9.7347e	1 No No	-										
				•		-										
Data Methods																
🧃 Method and Run Control																
Data Analysis																
Report Layout																
*																
Edit current Calibration Settings													T Instr	ument	1 🖻	Ready

#### 15. Make changes to Calibration settings

#### This will be in the window

Default RT Windows Minute: Reference Peaks 0.00 Other Peaks 0.00	s % + 5.00	Default Type Origin	Calibration Cu Linear Include	rve ~ ~
Amount Units мг/дм3 Calculate Uncalibrated Pea For Signal: FID1 A,	aks	weight	Equa	~
No     Using Compound     With Rsp Factor	None 0.000			~
If Peaks Missing	P.	artial Calib	ration	·
OK	Cancel		Help	

#### Fix to

Default RT Wind	ows Minutes	. %	Default	Calibration (	Curve
	0.00	· ···	Туре	Linear	
Heference Peaks	0.00	+ 5.00	Origin	Force	
Other Peaks	0.00	10.00	Weight	Equal	
Amount Units M	г/л безв	одного спир			
Calculate Uncalibr	ated Pea	iks			
For Signal:	FID1 A,				~
No					
O Using Compou	nd	None			
◯ With Rsp Fact	or	0.000			
Use ISTD		None			
If Peaks Missing					
Correct All RT	s	P	artial Calib	ration	

# 16. Change concentration data from mg/l to mg/l AA

40															
Instrument 1 (offline): Data Analy	/SIS													_	
File Method Sequence Graphi	cs Integration Calibratio	on <u>R</u> eport <u>B</u> atch	View Abort Hel	p											
Signals 🦾 🚾 Methods 🕝	RUN.M			<u> </u>											
Data Analysis 📮	SINGLERUNS: 2022-06-14 SI	IS													<b>4</b>
1	Use current method		s s	eq 🖪 🖪 🔒 🧉	3 🖬 冷		Ready/Reproc	r ss Data	Mode	0					
- C: \CHEM32\1\DATA	Data Timo		Vial	Data File	Comp	o Namo	Mathad Name	Man	Comple Infe	Cample Am	ICTD Amount	Multiplice	Dilution	ECM.	^
🖃 🦾 2022-06-14 SIS			Viai		Samp	ename		ridii	Sample Into	Sample All	15TD Alliount	riulupiier	Dilucion	ECH	
Single Runs	+ 14.06.2022 13:	13:21	Vial 101	SIG1G1001755.D	konak		VODKA_201.M	-		0	0	1	1	-	
	+ 14.06.2022 13	17:06	Vial 101	SIGIGI001756.D	) Drendi		V000 _2019.M	_		0	0	1	1	-	
	+ 14.06.2022 14:	47:57	Vial 101	SIG1G1001757.D	ро	iva - 05	VODKA_2019.M			0	0	1	1		
	14.06.2022 14.	19:06	Vial 101	SIG1G1001750.D	2	iya - 95	VODKA_2019.M	-		0	0	1	1	_	
	14.00.2022 15:	19:00	Viai 101	313131001739.0	2		VODKA_2019.M			0	U	1	1		~
	P														
	Integration	alibration M Sign	al												
	: 🔜 🗞 🖪 🖪 📈	Report: Short	P D	A & /											
		1					<b>.</b>								
	FID1 A, (2022-0IG1G10	001756.D) 💌 🥶 📋	st S 🔽 💆		<b></b>	Overview	× 🐏 🏛								
	Calibration Table														
	Enter Delete	Insert Print		telp											
	# RT Signal	Compound	Lvl Amt[мг/л без	водного спирта]	Area	Rsp.Factor	Ref ISTD #								
	1 3.482 FID1 A	ацетальдегид	1	9.800	4.2736621	2.293	No No								
	2 4.075 FID1 A	метилацетат	1	9.200	3.5017428	2.627	No No								
	4 4.632 FID1 A	метанол	1	1.0200e-2	44.9356804	2.2699e-4	No No								
	5 4.897 FID1 A	2-пропанол	1	8.200	5.4521799	1.504	No No								
	6 5.032 FID1 A	этанол	1	40.000 1	01.1563000	1.9812e-4	No No								
	7 7.057 FID1 A	1-пропанол	1	8.000	7.2669249	1.101	No No								
	9 11.063 FID1 A	1-битанол	1	8.100	8.0548649	1.002	No No								
	10 13.337 FID1 A	изоамиловый спи	1	8.100	8.3207760	9.7347e-1	No No								
Data Methods															
🖣 Method and Run Control															
📆 Data Analysis															
Report Layout															
>>	-														
L															
done														Instru	iment 1 🔄 Ready

# 17. The result should be

🏨 Instrument 1 (offline): Data Ana	Ilysis											_	٥	×
<u>File Method</u> Sequence Grap	hics Integration Calibration Repor	t <u>B</u> atch <u>V</u> iew <u>A</u> bort	Help											
Signals 🖳 🔯 Methods 🏹	3 🖶 📬 💓 RUN.M		i 🕖											
Data Analysis	SINGLERUNS: 2022-06-14 SIS													4
1	Use current method 🔹 🖌		Seq 🖪 🖳 👍 🐴		Ready/Re	process Data	Mode	0						
E- C: \CHEM32\1\DATA	Date Time	Operator Vial	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ECM		^
🖃 🦾 2022-06-14 SIS	14 05 2022 13:13:21	Vial 101	SIG1G10 1755 D	konak	VODKA 2019 M	-	Sample Into				1	-		
Single Runs	+ 14.06.2022 13:13:21	Vial 101	SIG16 001756.D	brendi	VODKA 2019.M	-		0	0	1	1	-		
	+ 14.06.2022 14:17:06	Vial 101	SIG1G 001757.D	pB	VODKA 2019.M	-		0	0	0	0	-		
	+ 14.06.2022 14:47:57	Vial 101	SIG1 1001758.D	Moscoviya - 95	VODKA_2019.M	-		0	0	1	1	-		
	+ 14.06.2022 15:19:06	Vial 101	SIG G1001759.D	2	VODKA_2019.M	-		0	0	1	1	-		
														~
	Integration	📶 Signal												
	E Report	Short 🖻												
	FID1 A, (2022-0IG1G1001756.D)	- 🛃 🗞 🔍 📐		<ul> <li>Overview</li> </ul>	- 🏤 🎟									
	Calibration Table												- đ	23
	Enter Delete Insert	Print <u>OK</u>	Help											
	# RT Signal Compo	und Lv Amt[мr/ภ	безводного спирта]	Area Rsp.Factor	Ref ISTD #	1								
	1 3.482 FID1 A ацеталь 2 4.075 FID1 A метидан	дегид 1	24.500 4	4.2736621 5.733	No No									
	3 4.549 FID1 А этилаце	тат 1	22.500 5	5.7722983 3.898	No No									
	4 4.632 FID1 A метанол	n 1	2.5500e-2	4.9356804 5.6748e-4	No No		_			-		_		_
	5 4.897 FID1 A 2-npona	нол 1	20.500	5.4521799 3.760	No No	21	<u>d</u>	7QQ'	270	fo	r	\+h	n	
	7 7.057 FID1A 1-npona	нол 1	20.000 7	7.2669249 2.752	No No	dl	IU /	1 0 フ	<b>4 / U</b>		1 t	こい	all	υ
	8 8.778 FID1 А изобути	ловый сп. 1	20.000	7.9816589 2.506	No No									
	. 9 11.063 FID1 A 1-бутанс	on 1	20.250 8	3.0548649 2.514	No No									
			20.250	5.5207760 2.434										
Data Methods														
Method and Run Control														
Data Analysis														
Report Layout														
K	2													
1														
<u>p</u>												-P- In strain	nant 1 🕅	Panda

#### 18. Click here

🏰 Instrument 1 (offline): Data Analys	is	<b>N</b>											_	D	$\times$
<u>File Method Sequence Graphic</u>	s <u>Integration</u> <u>Calibration</u>	n <u>R</u> eport <u>B</u> atch <u>V</u>	iew <u>A</u> bort <u>H</u> e	⊧lp											
Signals 🦙 🔯 Methods 隆	🔒 습 💓 🕬 RUN.M			II 🕗											
Data Analysis 🛛 🕈	SINGLERUNS: 2022-06-14 SIS														4
1	Use current method			Seq 🐘 🐘 🖶 🍊		Ready/Repr	rocess Data	Mode	0						
	Date Time	△ Operator	Vial	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ЕСМ		^
Single Runs	+ 14.06.2022 13:1	3:21	Via. 101	SIG1G1001755.D	konak	VODKA_2019.M	-		0	0	1	1	-		
	+ 14.06.2022 13:	45:56	Vial 111	SIG1G1001756.D	brendi	VODKA_2019.M	-		0	0	1	1	-		
	+ 14.06.2022 14:1	7:06	Vial 101	SIG1G1001757.D	рВ	VODKA_2019.M	-		0	0	0	0	-		
	+ 14.06.2022 14:4	7:57	Vial 101	SIG 1G 100 1758.D	Moscoviya - 95	VODKA_2019.M	-		0	0	1	1	-		
	+ 14.06.2022 15:19	9:06	Vial 101	SIC 1G1001759.D	2	VODKA_2019.M	-		0	0	1	1	-		
															~
	Integration	ibration 📶 Signal													
		Denot Shat													
		Keport: Short		🕹 🚍 🤁											
	FID1 A, (2022-0IG1G100	01756.D) 💌 🛃 🕀	6 🔍 🗟 📝	<u>s la a a a a a a a a a a a a a a a a a a</u>	<ul> <li>Overview</li> </ul>	- 🌸 🎞									
	Calibration Table														8
	Enter Delete	Insert Print	ок 1	Help											
	# RT Signal	Compound Ly	/I Amt[мг/л бе	зводного спирта]	Area Rsp.Facto	Ref ISTD #									
	1 3.482 FID1 A	ацетальдегид 1		24.500 4.	2736621 .73	3 No No									
	2 4.075 FID1 A	метилацетат 1		23.000 3.	5017428 6.5	No No									
	4 4.632 FID1 A	этилацетат і метанол 1	-	22.500 5. 2.5500e-2 44	.7722983 3.890 .9356804 5.6748e-4										
	5 4.897 FID1 A	2-пропанол 1		20.500 5.	4521799 3.760	No No									
	6 5.032 FID1 A	этанол 1		789270.000 1901.	1563000 3.909	No No									
	7 7.057 FID1 A	1-пропанол 1		20.000 7.	2669249 2.752	2 No No									
	9 11.063 FID1 A	1-бутанол 1		20.250 8.	.0548649 2.514	No No									
	10 13.337 FID1 A	изоамиловый спи 1		20.250 8.	3207760 2.434	No No									
Data Methods															
in Method and Run Control															
📆 Data Analysis															
Report Layout															
» *															
1															
working on "Is ISTD"													T Instr	ument 1 👔	Ready

#### 19. Click «OK»

🌺 Instrument 1 (offline): Data Analy	sis													
File Method Sequence Graphic	cs Integration Calibration	<u>Report</u> Batch View	Abort Help	F										
Signals 🤖 🔯   Methods 🏠	🛃 🍋 🛄 RUN.M			0										
Data Analysis 🛛 📮	SINGLERUNS: 2022-06-14 SIS													<b>4</b>
1	Use current method		Se Se			Ready/Repro	cess Data	Mode	0					
Gamma C: (CHEM32\1\DATA     COLEM32\1\DATA     COLEM32\1\DATA     COLEM32\1\DATA     COLEMA2\1\DATA      COLEMA2\1\DATA      COLEMA2\1\DATA      COLEMA2\1\DATA      COLEMA2\1\DATA      COLEMA2\1\DATA      COLEMA2\1\DATA      COLEMA2\1\DATA      COLEMA2\1\DATA      COLEMA2\1\DATA      COLEMA2\1\DATA      COLEMA2\1\DATA      COLEMA2\1\DATA      COLEMA2\1\1\DATA      COLEMA2\1\1\DATA      COLEMA2\1\1\1\1\1\1\1\1\1\1\1\1\1\1\1\1\1\1\1	Date Time           +         14.06.2022 13:13           +         14.06.2022 13:13           +         14.06.2022 13:13           +         14.06.2022 14:17           +         14.06.2022 14:17           +         14.06.2022 14:17           +         14.06.2022 15:15	∧         Operator           3:21         45:56           7:06         7:57           9:06         4000000000000000000000000000000000000	Vial           Vial 101           Vial 101           Vial 101           Vial 101           Vial 101	Data File           SIG 1G 1001755.D           SIG 1G 1001755.D           SIG 1G 1001757.D           SIG 1G 1001758.D           SIG 1G 1001759.D	Sample Name konak prendi pB Moscoviya - 95 2	Method Name VODKA_2019.M VODKA_2019.M VODKA_2019.M VODKA_2019.M VODKA_2019.M	Man - - - -	Sample Info	Sample Am 0 0 0 0 0	<b>ISTD Amount</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Multiplier 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dilution 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ECM - - - -	~
	FID1 A, (2022-0IG16100	ibration	СК Н	Calibration Table: Inst	Overview trument 1	× 🍓 🎞	×							- <del>6</del> 2
	#         RT         Signal           1         3.482         FID1A           2         4.075         FID1A           3         4.549         FID1A           4         632         FID1A           5         4.897         FID1A           6         5.032         FID1A           7         7.057         FID1A           8         8.778         FID1A           9         11.063         FID1A           10         13.337         FID1A	Сотроилd         Lvl           ацетальдегид         1           метилацетат         1           этилацетат         1           этилацетат         1           метанол         1           2-пропанол         1           зтанол         1           1-пропанол         1           изобутиловый спи         1           1-буганол         1           изоамиловый спи         1	Amt[mr/n 6esi	789270.000   1901. 20.000 7. 20.000 7. 20.250 8. 20.250 8.	0 Internal Standard set .1563000 3.909 .2669249 2.752 .9816589 2.506 .0548649 2.514 .3207760 2.434	Up in the Calibration Tab OK No No OK No No OK No No OK No No OK No No OK								
Data Methods Data Analysis Provide Analy														
working on "Is ISTD"													Instrui	nent 1 💽 Ready

working on "Is ISTD"

#### 20. Click here

🏰 Instrument 1 (offline): Data Analy	sis												-	D	×
<u>File Method Sequence Graphic</u>	cs <u>I</u> ntegration <u>C</u> alibration <u>R</u> epo	<u>B</u> atch <u>V</u> iev	<u>Abort</u> <u>H</u> elp												
Signals 🦣 🔤 Methods 🍖	🛃 😭 💓 RUN.M			۵.											
Data Analysis 🛛 🕈	SINGLERUNS: 2022-06-14 SIS														ą
1	Use current method 🔹 🚺		Sec			Ready/Repro	cess Data	Mode	0						
C:\CHEM32\1\DATA	Date Time	Operator	Vial	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ECM		^
	+ 14.06.2022 13:13:21		Via 101	SIG1G1001755.D	konak	VODKA 2019.M	-		0	0	1	1	-		
	► 14.06.2022 13:45:56		Vial 1.1	SIG1G1001756.D	brendi	VODKA_2019.M	-		0	0	1	1	-		
	+ 14.06.2022 14:17:06		Vial 101	SIG1G1001757.D	pВ	VODKA_2019.M	-		0	0	0	0	-	1	
	+ 14.06.2022 14:47:57		Vial 101	SIG1G1001758.D	Moscoviya - 95	VODKA_2019.M	-		0	0	1	1	-	1	
	+ 14.06.2022 15:19:06		Vial 101	SIC 1G1001759.D	2	VODKA_2019.M	-		0	0	1	1	-		
															~
	Integration	📶 Signal													
	E Report	Short	A A	A. @.											
	FID1 A, (2022-0IG1G1001756.D)	- 🛃 🕹	🔍 💊 💆		Overview	- 🏤 🎞									
	Calibration Table														P X
	Enter Delete Insert	Print	OK He	lp											
	# RT Signal Compo	und Lyl	Amt[мг/л безв	одного спирта]	Area Rsp.Factor	Ref ISTD #									
	1 3.482 FID1 A auetant	дегид 1		24.500 4.2	736621 .733	No No									
	3 4.549 FID1 A этилаце	erar 1		22.500 5.7	722983 3.898	No No									
	4 4.632 FID1 A метанол	n 1		2.5500e-2 44.9	356804 5.6748e-4	N No									
	5 4.897 FID1 A 2-npona	нол 1		20.500 5.4	521799 3.760 562000 2.909	No No									
	7 7.057 FID1A 1-npona	нол 1		20.000 7.2	669249 2.752	No No									
	8 8.778 FID1 А изобути	иловый спі 1		20.000 7.9	816589 2.506	No No									
	. <u>9 11.063 FID1 A 1-бутано</u>	ол 1		20.250 8.0	548649 2.514 207760 2.434	No No									
				20.230 0.3	201100 2.434										
a construction															
Data Methods															
in Method and Run Control															
📆 Data Analysis															
Report Layout															
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21

#### 21. Click «Yes»

Instrument 1 (offline): Data Analy	rsis	<b>N</b>											- 0	×
<u>File</u> <u>M</u> ethod <u>S</u> equence <u>G</u> raphic	cs <u>I</u> ntegration <u>C</u> alibratio	on <u>R</u> aport <u>B</u> atch	<u>V</u> iew <u>A</u> bort <u>H</u> elp	p										
Signals 🦾 🔯 Methods 🦳	🖶 📬 💟 RUN.M			l 🕗										
Data Analysis 🛛 📮	SINGLERUNS: 2022-06-14 S	IS												4
1	Use current method	- N N 🖓	Se 📔	eq 🖫 🖫 🔒 🕣		Ready/Rep	rocess Data	Mode	0					
- C:\CHEM32\1\DATA	Date Time	△ Operator	Vial	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ECM	^
2022-06-14 SIS	+ 14.06.2022 13:	13:21	Vial 101	SIG1G1001755.D	konak	VODKA_2019.M	-		0	0	1	1	-	
	+ 14.06.2022 1	3:45:56	Vi. 101	SIG1G1001756.D	brendi	VODKA_2019.M	-		0	0	1	1	-	
	+ 14.06.2022 14:	17:06	Vial 10	SIG1G1001757.D	pВ	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 14:	47:57	Vial 101	SIG1G1001758.D	Moscoviya - 95	VODKA_2019.M	-		0	0	1	1	-	
	+ 14.06.2022 15:	19:06	Vial 101	SIG1G1001759.D	2	VODKA_2019.M	-		0	0	1	1	-	
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	Integration	alibration 📶 Sign	al											
	: 🔜 🗞 🔜 🔜 📷	Report: Short	🖹 🔈	A 25										
	; FID1 A, (2022-0IG1G1	001/56.D) 🝸 🥶 ן	≪ ≪ <u>K</u> ⊠		Verview	× 🥵 🎞								
	Calibration Table													P 83
	Enter Delete	Insert Print	OK H	elp										
	# RT Signal	Compound	LvI Amt[мг/л беза 1	водного спирта] 24 500 4	Area Psp.Facto	TREFISTD #								
	2 4.075 FID1 A	метилацетат	1	23.000 3	.5017428 6.56	8 No No								
	3 4.549 FID1 A	этилацетат	1	22.500 5	.7722983 3.19	8 No No								
	4 4.632 FID1 A	2-пропанод	1	2.5500e-2 44. 20.500 5	.9356804 5.6748e- 4521799 3.76	A No No								
	6 5.032 FID1 A	этанол	1	789270.000 1901.	.1563000 3.90	9 No No -								
	7 7.057 FID1 A	1-пропанол	1	20.000 7.	.2669249 2.75	2 No No								
	9 11.063 FID1 A	изобутиловый сп.	1	20.000 7.	.9816589 2.50	4 No No								
	10 13.337 FID1 A	изоамиловый спи	1	20.250 8	.3207760 2.43	4 No No								
Data Methods														
Method and Run Control														
Data Analysis														
Report Layout														
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working on "Is ISTD"													T Instrument 1	Rea L

# 22. Window will appear, «ОК»

Linstrument 1 (offline): Data Ana ysi File Method Sequence Grap ics	is Integration	Calibration Rep	ort Batch Vie	w Abort Help											_	٥	×
Signals 🖳 🛄 Methods 🔓	u 🖓 🕡	RUN.M			0												
Data Analysis	SINGLERUNS: 20	)22-06-14 SIS															ą
	Use current me	ethod 💌 🖡		Seq		3 🖬 冷		Ready/Rep	process Data	Mode	0						
Calibration Table: Instru	ument 1	ime 🛆	Operator	Vial	Data File	Samp	le Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ECM		^
		022 13:13:21		Vial 101	SIG1G1001755.D	konak		VODKA_2019.M	-		0	0	1	1	-		
⊕ 🔁 De ISTD #: 1	]	022 13:45:56		Vial 101	SIG1G1001756.0	D brendi	i	VODKA_2019.M	-		0	0	1	1	-		
Sample Default		022 14:17:06		Vial 101	SIG1G1001757.D	pВ		VODKA_2019.M	-		0	0	0	0	-		
ISTD Amount: 789	3270.000	022 14:47:57		Vial 101	SIG1G1001758.D	Moscov	/iya - 95	VODKA_2019.M	-		0	0	1	1	-		
		022 15: 19:06		Vial 101	SIG1G1001759.D	2		VODKA_2019.M	-		0	0	1	1	-		~
OK Car	ncel Help																
		Calibratio	n M Signal														
	i 🖳 🍫 🐺	🛛 📆 💉 🛛 Repo	ort: Short	📄 🖻	📑 🐁 👘												
	FID1 A, (2022	2-0IG1G1001756.D	) 🗸 🕂 🕀	🔍 📘 🕅		•	Overview	- 🧆 🎟									
	Collination	. T.L.I.														_ 6	
	Enter	Delete Incert	Print		b l												
	# B	T Signal Comp	ound Lyl		раного спирта]	Area	Rsp.Factor	Ref ISTD #									
	1 3.4	82 FID1 A auera	льдегид 1		24.500	4.2736621	5.733	No No									
	2 4.0	175 FID1 А метил	ацетат 1		23.000	3.5017428	6.568	No No									
	4 4.6	i32 FID1 A метан	юл 1		2.5500e-2	44.9356804	5.6748e-4	No No									
	5 4.8	197 FID1 A 2-npor	танол 1		20.500	5.4521799	3.760	No No									
	<u> </u>	132 FID1 А этано. 157 FID1 А 1-прог	л 1 ранол 1		789270.000	7 2669249	2 752	No Yes									
	8 8.7	78 FID1 А изобу	тиловый спі 1		20.000	7.9816589	2.506	No No									
	. 9 11.0	163 FID1 А 1-бута	нол 1		20.250	8.0548649	2.514	No No									
	10 13.3	37 ГЕНТА ИЗОВМ	иловыи спи		20.250	8.3207760	2.434	NO NO									
Data Methods																	
Hethod and Run Control																	
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📆 Data Analysis																	
Report Layout																	
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working on "Is ISTD"															- Instru	ment 1	Read
working on is is to b															l mstru	inchie i E	- Acauy

#### 23. A "1" will appear next to each substance

alysis 4	SINGLERUNS: 2022-06-14 SIS	N 8 44 N	N											
/ ////////////////////////////////////	Use current method		Seq			Ready/Reproce	ess Data I	Mode (	2					
2022-06-14 SIS	Date Time A	Operator	Vial	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ECM	
Single Runs	+ 14.06.2022 13:13:21 + 14.06.2022 13:45:56		Vial 101	SIG1G1001755.D	brendi	VODKA_2019.M	-		0	0	1	1	-	
DENO	+ 14.06.2022 14:17:06		Vial 101	SIG1G1001757.D	pВ	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 14:47:57		Vial 101	SIG1G1001758.D	Moscoviya - 95	VODKA_2019.M	-		0	0	1	1	-	
	+ 14.06.2022 15:19:06		Vial 101	SIG 1G 100 1759.D	2	VODKA_2019.M	-		0	0	1	1	-	
	Integration         Calibration           Integration         Calibration           Image: State S	Not         Shot           Print         ••••••••••••••••••••••••••••••••••••		З С. аного спирта) 24.500 4.27 23.000 3.50 22.500 5.77 2.5500-2 44.33 20.500 5.45 783270.000 1901.15 20.000 7.26 20.000 7.38 20.250 8.05 20.250 8.05	Overview     Area Rsp.Factor     36621     5.733 17428     6.568 22983     3.898 56804     5.6748e4 21799     3.760 63000     3.909 63249     2.752 16569     2.506 48649     2.514	No         No         1           No         No         1								
ethods ethod and Run Control ata Analysis eport Layout														

#### 24. Choose «Specify report»

Instrument 1 (offline): Data Analys	sis													_	٥	×
File Method Sequence Graphic	s Ir	ntegration Calibration Re	port Batch View	Abort Hep												
Signals 🦙 🔯 Methods 🏠	-	Ci 💟 RUN.H	Print Report		<u>0</u>											
Data Analysis 🛛 🕂	SIN	GLERUNS: 2022-06 14 SIS	Specify Report													ą
1	U	se current method	System Suitability	> Seq			Ready/Repro	ocess Data	Mode	0						
C:\CHEM32\1\DATA		Date Time	Operator	Vial	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ECM		^
Single Runs	•	+ 14.06.2022 11:31:44		Vial 101	SIG1G1001752.D	p <b>B</b> 1	VODKA_2019.M	-		0	0	0	0	-		
DEMO		+ 14.06.2022 12:08:05		Vial 101	SIG1G1001753.D	рв 1	VODKA_2019.M	-		0	0	0	0			
		+ 14.06.2022 12:38:52		Vial 101	SIG1G1001754.D	calvados	VODKA_2019.M	-		0	0	0	0	-		v
	<b>J</b>	Integration	on <u>M</u> Signal		1	T										

# This will be in the window

Calculate: ESTD 🗸 lased On: Area 🗸 Sorted By: Signal 🗸	Use Sample	Data From Dal	ta File	~
ISTD Correction	Amount	0.0000	I# Compound	ISTD Amount
Use Multiplier & Dilution Factor with ISTDs	Multiplier	1.0000	1 этанол	7.89270e5
Style	Dilution	1.0000	1 этанол	7.89270e5
Report Style: Short			Enter	
Sample info on each page Add Fraction Table and Ticks	Chromatogra	am Output		
Add Chromatogram Output Add Summed Peaks Table			Size	% of Page
Add Sample Custom fields to	() F	Portrait	Time	
Sample info	ΟL	.andscape	nine.	20
Report Layout For Uncalibrated Peaks	ON	Multi-Page (Landsca	ape) Hespo	nse: 20
Separately ( With Calibrated Peaks O Do Not Report	1	Pages	S	ignal Options
Destination File Settings				
Rinter Screen File File Report	TXT. 🗹	.CSV	.EMF	DIF
Unique pdf file name	.PDF	.×LS	MTH. 🔽	

## **Fix to ISTD**

Specify Report: Instrument 1	
⊂ Quantitative Results Calculate: ISTD ✓ I ased On: Area ✓ Sorted By: Signal ✓	Calculation Factors Use Sample Data From Data File V
ISTD Correction Use Multiplier & Dilution Factor with ISTDs	Amount         0.0000         I#         Compound         ISTD Amount           1         втанол         7.89270e5         7.89270e5
Style Report Style: Short ~	1 этанол         7.89270e5           Dilution         1.0000
□ Sample info on each page       ☑ Add Fraction Table and Ticks         ☑ Add Chromatogram Output       □ Add Summed Peaks Table         □ Add Sample Custom fields to Sample info       □ Add Compound Custom fields         □ Benot Layout For Uncalibrated Peaks       □ Add Compound Custom fields	Chromatogram Output Portrait Chandscape Chandscape Chandscape Chromatogram Output Size % of Page Time: 100 8 Response: 20 100 100 100 100 100 100 100
Separately  With Calibrated Peaks  Do Not Report	1     Pages       Signal Options
Destination File Settings ☐ Printer ☑ Screen ☑ File ☑ Unique pdf file name ☑	<ul> <li>✓.TXT</li> <li>.CSV</li> <li>.EMF</li> <li>.DIF</li> <li>.PDF</li> <li>.XLS</li> <li>.HTM</li> </ul>
OK Cancel	Help

#### 25. Select sample "Calvados"

Instrument 1 (offline): Data Analys	sis		<u>1</u>									()()	
File Method Sequence Graphic	s Integration Calibration Repo	ort Batch View Abo	ort Help										
Signals 🦾 🔯 Methods 🦄	🖶 😭 🔟 RUN.M		1 🔳 🕛										
Data Analysis 📮	SINGLERUNS: 2022-06-14 SIS												
1	Use current method 🔹 🚺		Seq 🖪 🖪 🤘		Ready/Repr	ocess Data	Mode	0					
	Date Time /	Operator Viz	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am.	ISTD Amount	Multiplier	Dilution	FCM	
= 2022-06-14 SIS	+ 14.06.2022 11:31:44	Via	101 SIG1G1001752.D	DB 1	VODKA 2019.M	-	Sumple and	0	0	0	0	-	
Single Runs	+ 14.06.2022 12:08:05	Vial	101 SIG1G1001753.D	DB 1	VODKA 2019.M	1 22		0	0	0	0	-	
	+ 14.06.2022 12:38:52	Via	101 SIG1G1001754.D	calvados	VODKA 2019.M	17 <u>18</u> 1		0	0	0	0	-	
	+ 14.06.2022 13:13:21	Vial	101 SIG1G1001755.D	konak	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 13:45:56	Vial	101 SIG1G1001756.D	brendi	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 14:17:06	Vial	101 SIG1G1001757.D	pВ	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 14:47:57	Vial	101 SIG1G1001758.D	Moscoviya - 95	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 15:19:06	Vial	101 SIG1G1001759.D	2	VODKA_2019.M	-		0	0	0	0	-	
		-											
	Integration S Calibration	n <u>M</u> Signal											
	Beport: Short	<b>A</b>		.IG1G1001754.D) 🔻 🧔			M X 12	26. 51					
								ION - TON					
	FID1 A, (2022-06-14 SI	IS\SIG1G1001754.D)											
	PA 5			5	P T T T T T T T T T T T T T T T T T T T			12			눹		
	18 - 95 -	318) 318)		e o	N CI			VTB			N CU		
	17-1 12-11-1	Thomas and a state		1-ip	780			+			1081		
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		884	616	456	1300		0.07	11.0			M308	191	₽ <u>4</u>
	A A			1 h			in the second	1			A is	41	4.80
	14-										4 <u>8</u> 7		- Mary
	4		6	8			10		12			14	min
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	GC-File SIG1G1001754 D	<b>n</b> D		•	<b># lime</b> 1 2341	1 7E-1	Height 8.8F-2	0.0249	Symmetry 0.477				-
👼 Data Analysis	File Path C:\CHEM32\1\D	ATA\2022-06-14 SIS\		-	2 2.415	2.2E-1	1E-1	0.0245	1.33				_
1	Date 14-Jun-22, 12:38	:52			3 2.57	2.1E-1	9.6E-2	0.0281	6.527				_
Report Layout	Sample calvados				4 2.618	3.3E-1	1E-1	0.0414	1.036				
» *	Barcode			•	5 3.117 E 2192	1.1E-1	1 1F.1	0.0157	4 AR2				•
	1 <u>.</u>												
												-9-	
Integration done.												Instrumer	nt i 🔛 Ready

#### 26. Click «Print report»

🏰 Instrument 1 (offline): Data Analy	rsis												-	٥	×
File Method Sequence Graphic	cs Integration Calibration	Report Batch View	Abort Help												
Signals 🖳 🔯   Methods 🔄	🖶 🏠 💟 RUN.M	Print Report		<u>_</u>											
Data Analysis 🛛 🕂	SINGLERUNS: 2022-06-1 SIS	Specify Report													9
1	Use current method	System Suitability	> Se	田田山山		Ready/Repr	ocess Data	Mode	0						
C:\CHEM32\1\DATA	Date Time	Operator	Vial	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	ECM		
Single Runs	+ 14.06.2022 11:31:4	4	Vial 101	SIG1G1001752.D	рв 1	VODKA_2019.M	-		0	0	0	0	-		
E DEMO	+ 14.06.2022 12:08:0	5	Vial 101	SIG1G1001753.D	рв 1	VODKA_2019.M	-		0	0	0	0	-		
	+ 14.06.2022 12:38	:52	Vial 101	SIG1G1001754.D	calvados	VODKA_2019.M	-		0	0	1	1	-		
	+ 14.06.2022 13:13:2	1	Vial 101	SIG1G1001755.D	konak	VODKA 2019.M	-		0	0	0	0	-		

# The report will appear below

	nics Integration Calibration Repor	rt Batch View	Abort Help											
🛅 🔯 Methods 🙋	3 🖶 😋 💓 RUN.M			0										
iis -	SINGLERUNS: 2022-06-14 SIS													
1	Use current method		Seq	8843		Ready/Repr	ocess Data	Mode	0					
CHEM32\1\DATA	Date Time /	Operator	Vial	Data File	Sample Name	Method Name	Man	Sample Info	Sample Am	ISTD Amount	Multiplier	Dilution	FCM	_
2022-06-14 SIS	14 06 2022 11:31:44	operator	Vial 101	G1G1001752 D	os 1	VODKA 2019 M	-	Sumple and	0	0	0	0	-	
Single Runs	+ 14.06.2022 12:08:05		Vial 101	SIG 1001753.D	08.1	VODKA 2019.M			0	0	0	0	-	
DEMO	+ 14.06.2022 12:38:52		Vial 101	SIG1G1 1754.D	calvados	VODKA 2019.M	12		0	0	1	1	-	
	+ 14.06.2022 13:13:21		Vial 101	SIG1G100175	konak	VODKA 2019.M	-		0	0	0	0	-	
	+ 14.06.2022 13:45:56		Vial 101	SIG1G1001756.D	brendi	VODKA 2019.M	-		0	0	0	0	-	
	+ 14.06.2022 14:17:06		Vial 101	SIG1G1001757.D	рВ	VODKA_2019.M			0	0	0	0	-	
	+ 14.06.2022 14:47:57	1	Vial 101	SIG1G1001758.D	scoviya - 95	VODKA_2019.M	-		0	0	0	0	-	
	+ 14.06.2022 15:19:06		Vial 101	SIG1G1001759.D	2	VODKA_2019.M	-		0	0	0	0	-	
	Integration 🖗 Calibration	i 🛴 Signal	<u></u>	1				<u>n 2</u> •.						
	Integration Scalibration	Signal						<u>n 2</u> %						• ][]
	Integration Calibration     La	Signal	06-14 SIS\	\siglgl001754.	D	1 <del>33112</del>	1							- 1
	Calibration Calib	Signal	2. 2. 2. 1	SIGIG1001754.	D			<u> 20 20 - c.</u>						• ][]
	Calibraton Calibra	Signal	2 3 9 1 06-14 sis\ 1 12:38:52	SIGIGI001754.  L 121	D occation : Via Inj : 1 Volume : 1 v	5								- 1
	Calibration Calibr	Signal Signal Contemport Instrument 14.06.2022 Di(CHEM32)1	1 12:38:52	SIGIGIO01754.	D ocation : Via Inj : 1 Volume : 1 p	1 101 1		<u></u>					[	
vit	Calibration     Calibrati	Signal Signal	1 12:38:52 1\METHODS\ 14:22:28	(SIGIGI001754. L L L 	D ocation : Via Inj : 1 Volume : 1 µ	5		212 22 10						
nds	Calibraton     C	Signal Signal	06-14 SIS 1 12:38:52 1 (METHODS 14:22:28 1 (DATA)202 14:22:29	(SIGIG1001754. L Inj (VODKA_2019.M 22-06-14 SIS\S	D Hocation : Via Inj : 1 Volume : 1 µ HIGIGI001752.D	5/ <b>3 3 1 4 2</b> 1 101 1 \RUN.M							[	
rods	Calibraton	Signal Signal	1 12:30:52 1\METHODS\ 14:22:28 1\Data\2028 H2	<pre>\sigif() \sigif() \sigma() \sigma(</pre>	D Mocation : Via Inj : 1 Volume : 1 µ HGIGI001752.D	5/2 2/2 2 1 101 1 1 (RUN.M		<u>n 2 t</u>						
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#### 27. Click "Print" and save as pdf



# Do the same with the rest of the samples.

# **Brandy**



# **Calvados**

Acq. Operator Acq. Instrumen Injection Date Acq. Method Last changed Analysis Metho Last changed	: it : I : D : O od : C : 2	nstrument 1 4.06.2022 1: :\CHEM32\1\N 8.06.2022 1 :\CHEM32\1\N 0.06.2022 1 0.06.2022 1	2:38:52 METHODS\VOD 4:22:28 DATA\2022-0 4:45:03 ter loading	Loca Inj Va KA_2019.M 6-14 SIS\SIGI	ation : Vi Inj : Dlume : 1 1G1001752.	al 101 1 µl D\RUN.M		
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1	4	6		8	10	12	,	14
Sorted By		Internal	Standard R	eport				
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#### Vodka



#### Konyak Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001755.D Sample Name: konak \_\_\_\_\_ Acq. Operator : Injection Date : 14.06.2022 13:13:21 Inj · 1 Inj Volume : 1 µl Acq. Method : D:\CHEM32\1\METHODS\VODKA 2019.M Last changed : 08.06.2022 14:22:28 Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M Last changed : 20.06.2022 14:45:03 (modified after loading) Method Info : 25.06.2019 H2 FID1 A, (2022-06-14 SIS\SIG1G1001755.D) рА -35-5551 - watanaye 2-проданол 5-3036 - этан 32.5 30 цетат 27.5 len 25 -3.485 -22.5 20 827 058 17.5 14.716 100000 οī 15 00 Internal Standard Report Sorted By : Signal Calib. Data Modified : 20 June 2022 r. 14:45:03 Multiplier: : 1.0000 Dilution: : 1.0000 Use Multiplier & Dilution Factor with ISTDs Sample ISTD Information: ISTD ISTD Amount Name # мг/л безво -----1 7.89270е5 этанол Signal 1: FID1 A, RetTime Type ISTD Area Amt/Area Amount Grp Name [min] used [pA\*s] ratio мг/л безво 3.485 VV 1 16.95651 1.46649 90.83207 ацетальдегид 4.050 BV 1 2.80551 1.68018 17.21838 метилацетат 4.551 BV 1 128.33510 9.97119е-1 467.42943 этилацетат 4.637 VB 1 24.14906 1.45165e-4 1.28052e-2 метанол 4.902 BV 1 16.46674 9.61827e-1 57.85330 2-пропанол 5.036 VB S I 1 2.16074e5 1.00000 7.89270e5 этанол 7.062 VV T 1 104.56990 7.04032e=1 268.91986 1-пропанол 8.784 PV T 1 34.57939 6.40988e-1 80.96382 изобутиловый спирт 1 7.03571e-1 6.43102e-1 1.65277 11.058 BB 1-бутанол 13.333 VV 1 854.57062 6.22550e-1 1943.32758 изоамиловый спирт

Instrument 1 20.06.2022 14:46:09

# PB-2

Acq. Instrumen Injection Date Acq. Method Last changed Analysis Metho Last changed Method Info	: it : Instrume: it : Instrume: it : 14.06.20: : D:\CHEM3: : 08.06.20: (modifie: : 25.06.20: :	nt 1 22 15:19:06 22 14:22:28 2\1\DATA\2022-0 2 14:45:03 d after loading 19 H2	Loc Inj V KA_2019.M 6-14 SIS\SIG	ation : Vial 101 Inj : 1 'olume : 1 μl :1G1001752.D\RUN.β	1		
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+	4	6	8	10	12		14
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