Before configuring MSD ChemStation, you must stop all analysis and close ChemStation.



Highlight the MS Config Icon and double-click the left-mouse button to run the MS Config program. If no MS Config Icon is found on the desktop, you can run the **msconfig.exe** found at:

C:\msdchem\MSexe\msconfig.exe by highlighting **msconfig.exe** and double clicking left-mouse button. You should see a window similar to the one below appear.

船 System Configu	ıration			_ 🗆 ×			
<u>File C</u> onfigure <u>H</u> e	lp						
1234	8						
Instrument 2	Instrument 2 Execute						
		Current System Configuration	n				
Inst# Na	ame Offline	Mass Spectrometer	Gas Chromatograph	Data Analysis			
1 Instrument #1	V	5973N, 5973 inert MS (LAN = 10.2.2.102)	6890 (LAN = 10.2.2.101)	Enhanced			
2 <none></none>		<none></none>	<none></none>	<none></none>			
3 <none></none>	Г	<none></none>	<none></none>	<none></none>			
4 <none></none>		<none></none>	<none></none>	<none></none>			
Configure Instrument	:#2			NUM			

You should have instrument #1 configured if you are currently running your instrument under Enhanced Data Analysis for Online analysis and probably instrument #2 for Enhanced Data Analysis for Offline analysis. Since instrument #2 is available, our example will use instrument #2, but the same procedure applies to instrument #3, and #4.

To install EnviroQuant Data Analysis, you must install on an available instrument which in this case its instrument #2. Install instrument by clicking on the **2** on the menu bar of the window. Once you click on the 2 on the menu bar, you should see a window similar to the one below appear.

ectromet	er			×
nclude a M	lass Spectrome	eter in this Ins	trument Configuration	
ss Spectro Iodel	meter Device 3	Link	Address	
973N, 597:	3 inert MS	LAN	10.2.2.102	
lected:	<none></none>	Ngw MS Der	vice	
	< Pack	Next >		
	ctromet nclude a N ss Spectro odel 173N, 597:	ctrometer holude a Mass Spectrome ss Spectrometer Device S odel 173N, 5973 inert MS	ctrometer nclude a Mass Spectrometer in this Ins ss Spectrometer Device Selection odel Link 173N, 5973 inert MS LAN lected: <none> New MS De</none>	ctrometer holude a Mass Spectrometer in this Instrument Configuration ss Spectrometer Device Selection odel Link Address 173N, 5973 inert MS LAN 10.2.2.102

Click on the **Include a Mass Spectromer in this Instrument Configuration** check-box, select the instrument found in the **Mass Spectometer Device Selection** box, and click on the **Next >** button.

Mass	Spectrometer			×
	Include a Mass Spectron Mass Spectrometer Device	meter in this Instru s Selection	iment Configuration	
	Model	Link	Address	
	Jaran, Jara Herma		10.2.2.102	
	Selected: 5973N, 597	3 inert MS (LAN = N <u>e</u> w MS Devic	= 10.2.2.102) :e	
	< <u>B</u> ack	<u>N</u> ext >	Cancel	Help

You should see a window similar to the one below appear.

Mass Spectrometer Options	×
- Ionization Options	
Electron Ionization	
Chemical Ionization	
< Back Next > Cancel Help	

Check box for Electron Ionization should be checked and grayed out, so just click on the **<u>Next</u> >** button. A windows similar to the one below should appear.

Set DC Polarity	×
The DC Polarity for the instrument is not set. The recommended DC Polarity is in the autotune report in the Factory Verification section of the MSD log book. It is also written on the top of the Analyzer. Using the factory recommended setting will ensure optimum MSD performance. Is the DC Polarity positive(+) or negative (-) ? If you do not know, press Cancel and rerun MS Config later.	
Polarity Positive (+) Negative (-)	
< <u>B</u> ack <u>N</u> ext > Cancel	Help

Make sure that the Positive (+) Polaity button is selected and press the **<u>Next</u> >** buttton.

A window similar to one below should appear.

Model		Link	Address	
6890		LAN	10.2.2.101	
Selected:	<none></none>			
		New GC De	vice	

Click on the Include a **Gas Chromatograph in this Instrument Configuration**, select the instrument found in the **Gas Chromatograph Device Selection** box, and click on the <u>Next</u> > button.

Gas	Chromatogr	aph			×
	Gas Chroma	a Gas Chromatograp atograph Device Sele	h in this Instr	ument Configuration	
	Model		Link	Address	
	6890		LAN	10.2.2.101	
	Selected:	6890 (LAN = 10.2 <u>Ne</u>	2.2.101) w GC Devic	e	
		< <u>B</u> ack	<u>N</u> ext >	Cancel	Help

A window similar to one below should appear with the **Data Analysis Mode** having **Enhanced Quantitation** hight lighted in the drop-down menu.

Data Analysis	×
Data Analysis Mode Enhanced Quantitation	
< <u>B</u> ack <u>N</u> ext > Cancel Help	

Click on the down arrow and select EnviroQuant (EPA) to install the EnviroQuant Software.

Data Analysis	x
Data Analysis Mode	EnviroQuant (EPA) Enhanced Quantitation EnviroQuant (EPA) Aromatics in Gasoline Drug Analysis
< <u>B</u> ack	Next > Cancel Help

A window similar to one below should be on your screen now. Press the **<u>Next</u> >** button to continue with the installation of the ChemStation EnviroQuant Software.

Data Analysis	×
Data Analysis Mode <u>EnviroQuant (EPA)</u>	
< <u>B</u> ack <u>N</u> ext > Cancel Help	

A windows similar to one below should appear. Click on the Finish button to install the EnviroQuant Software.

Review Configuration	×
You have specified t	ne following OFFLINE instrument configuration:
Mass Spectrometer 59	73N, 5973 inert MS (LAN = 10.2.2.102)
Electron Ionization	
Positive (+) DC Pola	ity
Gas Chromatograph 68	90 (LAN = 10.2.2.101)
Data Analysis Er	wiroQuant (EPA)
Click FINIS	to save this instrument configuration
< <u>B</u> ack	Cancel Help

The configuration window similar to the one below should appear with the #2 instrument being the offline instrument and the **Data Analysis** being **EnviroQuant**. You should also see the appearance of EnviroQuant Data Analysis icon on the desktop.

🏪 System Configuration				
<u>File Configure H</u> elp				
1234 💡				
		▼ _E	xecute	
		Current System Configuration		
Inst# Name	Offline	Mass Spectrometer	Gas Chromatograph	Data Analysis
1 Instrument #1		5973N, 5973 inert MS (LAN = 10.2.2.102)	6890 (LAN = 10.2.2.101)	Enhanced
2 Instrument #2	V	5973N, 5973 inert MS (LAN = 10.2.2.102)	6890 (LAN = 10.2.2.101)	EnviroQuant
3 <none></none>		<none></none>	<none></none>	<none></none>
4 <none></none>		<none></none>	<none></none>	<none></none>
Ready				NUM ///

In order to obtain a BFB report you must open the recently installed EnviroQuant software by double-clicking on the EnviroQuant Data Analysis Icon found on your desktop. A window similar to the one below should appear.



Left mouse click on the BFB peak on the TIC chromatograph to obtain the MS spectra of BFB. A spectra similar to one below should appear.



To obtain BFB report click on the **Tuner Menu** option and select the **Evaluate BFB** report option.



A Pop-Up window should appear similar to the one below:



Select the desired Radio-Button report option and click on the **OK** button.

The desired report option will then printout similar to the one below.

BFB

Data Path : H:\COMPLIANCE\0_INSTRUMENT RAW DATA\MFG\2016 MFG\16MFG1021_001\ Data File : 16MFG1021 001 02.D						
Aca On : 21 Oct 2016 6:42 pm						
Operator : AB						
Sample : IOM BFB						
Misc : MFG-156-039 (Sig #1); (Sig #2)						
ALS Vial : 11 Sample Multiplier: 1						
Integration File signal 1: ExemptsMS.e						
Integration File signal 2: Exempts.e						
Method : C:\msdchem\1\methods\EXEMPTS_151020G.M						
Title : SCAQMD M313						
Last Update : Wed Oct 28 16:32:30 2015						
Spectrum Information: Scan 3683						
Target Rel.	. to Lower	Upper	Rel.	Raw	Result	
Mass Mas	ss Limit%	Limit%	Abn%	Abn	Pass/Fail	
50 9	75 8	40	14.9	53696	PASS	
75 9	95 30	66	47.4	171136	PASS	
95 9	75 100	100	100.0	361088	PASS	
96 96 9	7 5 5	9	6.1	21888	PASS	
173 17	74 0.00	2	0.0	0	PASS	
174 9	95 50	120	93.4	337280	PASS	

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PASS

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