

Mapping between Finnigan's Magnum data system CI parameters and Vx Acquisition System setpoints:

Finnigan - "CI/MCI Parameters" Dialog -----	Vx - "Init_CI" Setpoints -----	Finnigan - "Customize MCI Parameters" Dialog -----
CI ioniz. storage level (dacs):	CI_Ionize_Mass	Ionization level (amu):
CI reaction storage level (dacs):	CI_React_Mass	Reaction level (amu):
CI reagent ion ejection level (amu):	CI_BackMass	Reagent ion eject level (amu):
CI maximum ioniz. time (µsec):	CI_Max_Ion_Time	Maximum ioniz. time (µsec):
CI maximum reaction time (msec):	CI_Max_React_Time	Maximum reaction time (msec):
Reagent reaction time (µsec):	CI_Reag_React_Time	Reagent reaction time (µsec):
Reagent ion ejection adjust (%):	CI_Ion_Eject_Adjust	Reagent ion eject adjust (%):

Mapping between 'amu' and 'dacs' is essentially:

$$\#dacs = 6.3 * \#amu$$

Definitions for remaining Vx setpoints:

CI_ARC_Ion_Time : Ionization time used in prescan portion of ARC scans.

CI_ARC_TIC : Target TIC value used in ARC scans.

CI_Fixed_Ion_Time : Ionization time used when ARC is off.

CI_LowMass : Usually set to CI_BackMass value. This is the lower limit value for the scan range.

Default CI parameters taken from Finnigan Magnum data system:

	Methane	Isobutane	Ammonia	Isobutane (Proveaux @ USDA)
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CI_Ionize_Mass	5.4	20.0	5.4	26.0
CI_React_Mass	13.4	40.0	14.4	28.0
CI_BackMass	45	65	40	65
CI_Max_Ion_Time	1500	1500	1500	1500
CI_Max_React_Time	30	80	30	100
CI_Reag_React_Time	2400	12000	1200	15000
CI_Ion_Eject_Adjust	100	100	100	105

Note: Vx Acquisition System default values are set for methane.