12:48:33: Calibrating instrument...

12:48:34: Previous Multipole resonance frequency was: 2832.800000

12:48:34: Coarse Tune - multipole resonance frequency

12:48:42: Coarse Multipole resonance frequency is: 2834.000000

12:48:42: Fine Tune - multipole resonance frequency

12:48:48: Multipole frequency now set to 2835.200000

12:48:56: Multipole Frequency Calibration Check PASSED

12:48:56: Multipole Frequency Calibration SUCCESSFUL

12:48:56:

12:48:56: Tuning RF resonance frequency

12:48:56: Previous RF resonance frequency was 1196.000000

12:48:58: SWR Center frequency: 1195.000000

12:48:59: Measured RF resonance frequency is: 1195.000000

12:48:59: RF frequency now set to 1195.000000

12:49:01: Predicted Dac for 10V detected RF is: 48209.208663

12:49:01: Tuning RF resonance frequency

12:49:01: Previous RF resonance frequency was 1196.000000

12:49:03: SWR Center frequency: 1196.000000

12:49:05: Measured RF resonance frequency is: 1196.000000

12:49:05: RF frequency now set to 1196.000000

12:49:12: RF Frequency Calibration Check PASSED

12:49:12: Main RF Frequency Calibration SUCCESSFUL

12:49:12:

12:49:12: Calibrating Positive Ion Electron Multiplier Gain

12:49:21: -----------

12:49:21: Current High Gain voltage for multiplier number 1 is -918 V

12:49:21: Current Norm Gain voltage for multiplier number 1 is -793 V

12:49:21: Setting gain for multiplier number 1 ...

12:56:10: High Gain Voltage for Multiplier 1 = -944 V

12:56:10: Norm Gain Voltage for Multiplier 1 = -821 V

12:56:12: Gain adjustment is finished!

12:56:21:

12:56:21: Checking Multiplier # 1 Calibration for Positive Ion Mode

12:56:21: Finding gain at multiplier voltage = -944 v

12:56:54: Multiplier Gain OK: gain = 425078

12:56:54: Finding gain at multiplier voltage = -821 v

12:57:45: Multiplier Gain OK: gain = 104295

12:57:48:

12:57:48: Checking Gain Ratio for Multiplier 1

12:58:02: Results of Multiplier Check:

12:58:02: High Gain Signal = 310415199

12:58:02: Normal Gain Signal = 59625614

12:58:02: High Gain Signal/Low Gain Signal = 5.206 with RSD 17.167%

12:58:02:

12:58:16: -----------

12:58:16: Current High Gain voltage for multiplier number 2 is -945 V

12:58:16: Current Norm Gain voltage for multiplier number 2 is -825 V

12:58:16: Setting gain for multiplier number 2 ...

13:04:05: High Gain Voltage for Multiplier 2 = -965 V

13:04:05: Norm Gain Voltage for Multiplier 2 = -841 V

13:04:07: Gain adjustment is finished!

13:04:16:

13:04:16: Checking Multiplier # 2 Calibration for Positive Ion Mode

13:04:16: Finding gain at multiplier voltage = -965 v

13:04:57: Multiplier Gain OK: gain = 348381

13:04:57: Finding gain at multiplier voltage = -841 v

13:05:46: Multiplier Gain OK: gain = 88430

13:05:50:

13:05:50: Checking Gain Ratio for Multiplier 2

13:06:04: Results of Multiplier Check:

13:06:04: High Gain Signal = 254857650

13:06:04: Normal Gain Signal = 56472208

13:06:04: High Gain Signal/Low Gain Signal = 4.513 with RSD 17.689%

13:06:04:

13:06:04: Positive Ion Multiplier Gain Calibration SUCCESSFUL

13:06:04:

13:06:04: Optimizing normal scan resolution...

13:06:04: Searching for calibration masses...

13:06:07: Peak found at m/z 195.004303

13:06:10: Peak found at m/z 524.348267

13:06:13: Peak found at m/z 1222.073975

13:06:16: Peak found at m/z 1521.971436

13:06:19: Peak found at m/z 1821.952271

13:06:19: Optimizing resolution...

13:06:43: Finished with mass 195.004303

13:07:07: Finished with mass 524.348267

13:07:30: Finished with mass 1222.073975

13:07:51: Finished with mass 1521.971436

13:08:14: Finished with mass 1821.952271

13:08:14: Smoothing data...

13:08:16: Optimum res ej amp for mass 195.004303 at 5.916789v

13:08:16: Optimum res ej amp for mass 524.348267 at 11.398800v

13:08:16: Optimum res ej amp for mass 1222.073975 at 22.501630v

13:08:16: Optimum res ej amp for mass 1521.971436 at 25.671685v

13:08:16: Optimum res ej amp for mass 1821.952271 at 31.148308v

13:08:16: old resej slope: 0.014412 old resej intercept: 4.890239

13:08:16: new resej slope: 0.015379 new resej intercept: 3.060555

13:08:16:

13:08:24: New End Section Voltage: 12.000000

13:08:24: Previous Slope: 0.000000 New Slope: 0.000000

13:08:24: Resolution optimization is finished!

13:08:24:

13:08:24: Calibrating masses for normal scan...

13:08:24: Averaging spectra...

13:08:24:

13:08:40: Checking normal scan resolution and mass calibration...

13:08:40: Averaging spectra...

13:08:40:

13:08:48: m/z 195.087652 found at m/z 195.005840

13:08:48: (diff: -0.081812) with FWHM: 0.368859

13:08:57: m/z 524.264964 found at m/z 524.347397

13:08:57: (diff: 0.082433) with FWHM: 0.455780

13:09:06: m/z 1221.990636 found at m/z 1222.027679

13:09:06: (diff: 0.037043) with FWHM: 0.504531

13:09:14: m/z 1521.971475 found at m/z 1521.996643

13:09:14: (diff: 0.025168) with FWHM: 0.541505

13:09:23: m/z 1821.952313 found at m/z 1821.889862

13:09:23: (diff: -0.062451) with FWHM: 0.566144

13:09:25: Normal Scan Resolution & Mass Calibration SUCCESSFUL

13:09:25:

13:09:25: Calibrating masses for AGC and turbo scan...

13:09:25: Searching for calibration masses...

13:09:28: Peak found at m/z 194.533493

13:09:31: Peak found at m/z 524.328613

13:09:34: Peak found at m/z 1221.961060

13:09:36: Peak found at m/z 1521.674072

13:09:39: Peak found at m/z 1821.721924

13:09:39: Averaging spectra...

13:09:39:

13:09:54: Checking AGC scan mass calibration...

13:09:54: Averaging spectra...

13:09:54:

13:09:57: m/z 195.087652 found at m/z 195.112862

13:09:57: (diff: 0.025210) with FWHM: 1.322217

13:10:00: m/z 524.264964 found at m/z 524.809372

13:10:00: (diff: 0.544408) with FWHM: 1.670313

13:10:03: m/z 1221.990636 found at m/z 1222.425598

13:10:03: (diff: 0.434962) with FWHM: 1.655782

13:10:05: m/z 1521.971475 found at m/z 1522.265167

13:10:05: (diff: 0.293692) with FWHM: 1.810789

13:10:08: m/z 1821.952313 found at m/z 1822.431122

13:10:08: (diff: 0.478809) with FWHM: 1.992502

13:10:10: AGC Scan Mass Calibration SUCCESSFUL

13:10:10:

13:10:10: Optimizing enhanced scan resolution...

13:10:10: Searching for calibration masses...

13:10:13: Peak found at m/z 195.047638

13:10:16: Peak found at m/z 524.264954

13:10:19: Peak found at m/z 1222.030640

13:10:22: Peak found at m/z 1521.971436

13:10:25: Peak found at m/z 1821.952271

13:10:25: Optimizing resolution...

13:10:37: Finished with mass 195.047638

13:10:51: Finished with mass 524.264954

13:11:02: Finished with mass 1222.030640

13:11:15: Finished with mass 1521.971436

13:11:29: Finished with mass 1821.952271

13:11:29: Smoothing data...

13:11:31: Optimum res ej amp for mass 195.047638 at 4.567741v

13:11:31: Optimum res ej amp for mass 524.264954 at 7.375279v

13:11:31: Optimum res ej amp for mass 1222.030640 at 16.858227v

13:11:31: Optimum res ej amp for mass 1521.971436 at 15.615003v

13:11:31: Optimum res ej amp for mass 1821.952271 at 21.791762v

13:11:31: old resej slope: 0.010132 old resej intercept: 2.394719

13:11:31: new resej slope: 0.010036 new resej intercept: 2.507379

13:11:31:

13:11:32: Resolution optimization is finished!

13:11:32:

13:11:32: Calibrating masses for enhanced scan...

13:11:32: Averaging spectra...

13:11:32:

13:11:48: Checking enhanced scan resolution and mass calibration...

13:11:48: Averaging spectra...

13:11:48:

13:11:57: m/z 195.087652 found at m/z 195.060192

13:11:57: (diff: -0.027460) with FWHM: 0.239420

13:12:06: m/z 524.264964 found at m/z 524.298553

13:12:06: (diff: 0.033589) with FWHM: 0.288311

13:12:15: m/z 1221.990636 found at m/z 1222.011810

13:12:15: (diff: 0.021174) with FWHM: 0.340377

13:12:23: m/z 1521.971475 found at m/z 1521.977448

13:12:23: (diff: 0.005973) with FWHM: 0.358120

13:12:32: m/z 1821.952313 found at m/z 1821.943909

13:12:32: (diff: -0.008404) with FWHM: 0.378273

13:12:34: Enhanced Scan Resolution & Mass Calibration SUCCESSFUL

13:12:34:

13:12:34: Optimizing zoom scan resolution...

13:12:34: Searching for calibration masses...

13:12:37: Peak found at m/z 195.107651

13:12:41: Peak found at m/z 524.244995

13:12:44: Peak found at m/z 1221.970581

13:12:48: Peak found at m/z 1521.971436

13:12:51: Peak found at m/z 1821.972290

13:12:51: Optimizing resolution...

13:13:06: Finished with mass 195.107651

13:13:27: Finished with mass 524.244995

13:13:44: Finished with mass 1221.970581

13:13:59: Finished with mass 1521.971436

13:14:20: Finished with mass 1821.972290

13:14:20: Smoothing data...

13:14:22: Optimum res ej amp for mass 195.107651 at 2.731552v

13:14:22: Optimum res ej amp for mass 524.244995 at 3.423459v

13:14:22: Optimum res ej amp for mass 1221.970581 at 7.254293v

13:14:22: Optimum res ej amp for mass 1521.971436 at 8.539637v

13:14:22: Optimum res ej amp for mass 1821.972290 at 9.824981v

13:14:22: old resej slope: 0.004477 old resej intercept: 2.109036

13:14:22: new resej slope: 0.004514 new resej intercept: 1.561026

13:14:22:

13:14:23: Resolution optimization is finished!

13:14:23:

13:14:23: Calibrating masses for zoom scan...

13:14:23: Averaging spectra...

13:14:23:

13:14:35: Checking zoom scan resolution and mass calibration...

13:14:35: Averaging spectra...

13:14:35:

13:14:45: m/z 195.087652 found at m/z 195.101143

13:14:45: (diff: 0.013491) with FWHM: 0.153221

13:14:55: m/z 524.264964 found at m/z 524.237747

13:14:55: (diff: -0.027217) with FWHM: 0.174026

13:15:06: m/z 1221.990636 found at m/z 1221.966248

13:15:06: (diff: -0.024388) with FWHM: 0.207310

13:15:17: m/z 1521.971475 found at m/z 1521.970154

13:15:17: (diff: -0.001321) with FWHM: 0.218965

13:15:28: m/z 1821.952313 found at m/z 1821.943726

13:15:28: (diff: -0.008587) with FWHM: 0.234227

13:15:30: Zoom Scan Resolution & Mass Calibration SUCCESSFUL

13:15:30:

13:15:30: Searching for calibration masses...

13:15:32: Peak found at m/z 195.004303

13:15:35: Peak found at m/z 1521.971436

13:15:38: Peak found at m/z 524.431580

13:16:48: Checking isolation waveform calibration...

13:16:48:

13:16:58: 93.802962 percent of m/z 525.264964 retained

13:16:58: 99.981543 percent of m/z 524.264964 ejected

13:16:58: 99.888278 percent of m/z 526.264964 ejected

13:16:58: Isolation efficiency of m/z 525.264964 is OK

13:16:58: Checking isolation waveform calibration...

13:16:58:

13:17:09: 100.000000 percent of m/z 1822.952313 retained

13:17:09: 98.507370 percent of m/z 1821.952313 ejected

13:17:09: 98.523215 percent of m/z 1823.952313 ejected

13:17:09: Isolation efficiency of m/z 1822.952313 is OK

13:17:09: Isolation Waveform Calibration SUCCESSFUL

13:17:09:

13:17:09: Optimizing ultra zoom scan resolution...

13:17:09: Searching for calibration masses...

13:17:29: Peak found at m/z 195.147644

13:17:50: Peak found at m/z 524.294983

13:18:10: Peak found at m/z 1221.990601

13:18:31: Peak found at m/z 1521.981445

13:18:51: Peak found at m/z 1821.982300

13:18:51: Optimizing resolution...

13:19:33: Finished with mass 195.147644

13:20:19: Finished with mass 524.294983

13:21:00: Finished with mass 1221.990601

13:21:43: Finished with mass 1521.981445

13:22:26: Finished with mass 1821.982300

13:22:26: Smoothing data...

13:22:28: Optimum res ej amp for mass 195.147644 at 0.627483v

13:22:28: Optimum res ej amp for mass 524.294983 at 0.713418v

13:22:28: Optimum res ej amp for mass 1221.990601 at 1.854722v

13:22:28: Optimum res ej amp for mass 1521.981445 at 1.964034v

13:22:28: Optimum res ej amp for mass 1821.982300 at 2.282173v

13:22:28: old resej slope: 0.001195 old resej intercept: 0.394336

13:22:28: new resej slope: 0.001095 new resej intercept: 0.314961

13:22:28:

13:22:29: Resolution optimization is finished!

13:22:29:

13:22:29: Calibrating masses for Ultra Zoom scan...

13:22:29: Calibrating Vernier Dac for Ultra Zoom Scan ...

13:23:05: Vernier Dac calibration Complete.

13:23:05: Calibrating Main Dac for Ultra Zoom Scan ...

13:23:51: Main Dac calibration Complete.

13:23:51: Checking Ultra Zoom scan resolution and mass calibration...

13:23:51: Averaging spectra...

13:23:51:

13:24:29: m/z 195.087652 found at m/z 195.140232

13:24:29: (diff: 0.052580) with FWHM: 0.055254

13:25:08: m/z 524.264964 found at m/z 524.261398

13:25:08: (diff: -0.003566) with FWHM: 0.058222

13:25:47: m/z 1221.990636 found at m/z 1221.997345

13:25:47: (diff: 0.006709) with FWHM: 0.071236

13:26:25: m/z 1521.971475 found at m/z 1521.975342

13:26:25: (diff: 0.003867) with FWHM: 0.073975

13:27:04: m/z 1821.952313 found at m/z 1822.016968

13:27:04: (diff: 0.064655) with FWHM: 0.079970

13:27:06: Checking Ultra Zoom scan resolution and mass calibration...

13:27:06: Averaging spectra...

13:27:06:

13:28:16: Syringe pump is out of sample.

13:28:16: Calibration cancelled.

13:28:16: m/z 1621.953000 found at m/z 1621.967499

13:28:16: (diff: 0.014499) with FWHM: 0.073997

13:28:18: Ultra Zoom Scan Resolution and Mass Calibration ABORTED

13:28:19:

13:28:19: SUMMARY of CALIBRATION:

13:28:19: Multipole Frequency Calibration SUCCESSFUL

13:28:19: Main RF Frequency Calibration SUCCESSFUL

13:28:19: Positive Ion Multiplier Gain Calibration SUCCESSFUL

13:28:19: Normal Scan Resolution Calibration SUCCESSFUL

13:28:19: Normal Scan Mass Calibration SUCCESSFUL

13:28:19: AGC Scan Mass Calibration SUCCESSFUL

13:28:19: Enhanced Scan Resolution Calibration SUCCESSFUL

13:28:19: Enhanced Scan Mass Calibration SUCCESSFUL

13:28:19: Zoom Scan Resolution Calibration SUCCESSFUL

13:28:19: Zoom Scan Mass Calibration SUCCESSFUL

13:28:19: Ultra Zoom Scan Resolution Calibration ABORTED

13:28:19: Ultra Zoom Scan Mass Calibration ABORTED

13:28:19: Isolation Waveforms Calibration SUCCESSFUL

13:28:19: Activation Waveforms Calibration ABORTED

13:28:19:

13:28:19: Calibration ABORTED!

13:28:19: NOT ALL requested calibration(s) successful!

13:28:19: Saving only Good Calibrations...

13:28:19: Calibration is FINISHED.

13:28:19:

13:30:12: Calibrating instrument...

13:30:12: Optimizing ultra zoom scan resolution...

13:30:12: Searching for calibration masses...

13:30:33: Peak found at m/z 195.147644

13:30:53: Peak found at m/z 524.294983

13:31:14: Peak found at m/z 1221.980591

13:31:34: Peak found at m/z 1521.981445

13:31:55: Peak found at m/z 1821.982300

13:31:55: Optimizing resolution...

13:32:36: Finished with mass 195.147644

13:33:22: Finished with mass 524.294983

13:34:03: Finished with mass 1221.980591

13:34:46: Finished with mass 1521.981445

13:35:39: Finished with mass 1821.982300

13:35:39: Smoothing data...

13:35:41: Optimum res ej amp for mass 195.147644 at 0.627483v

13:35:41: Optimum res ej amp for mass 524.294983 at 0.713418v

13:35:42: Optimum res ej amp for mass 1221.980591 at 1.854722v

13:35:42: Optimum res ej amp for mass 1521.981445 at 1.964034v

13:35:42: Optimum res ej amp for mass 1821.982300 at 0.544286v

13:35:42: old resej slope: 0.001195 old resej intercept: 0.394336

13:35:42: new resej slope: 0.000120 new resej intercept: 0.731138

13:35:42:

13:35:43: Resolution optimization is finished!

13:35:43:

13:35:43: Calibrating masses for Ultra Zoom scan...

13:35:43: Calibrating Vernier Dac for Ultra Zoom Scan ...

13:36:18: Vernier Dac calibration Complete.

13:36:18: Calibrating Main Dac for Ultra Zoom Scan ...

13:37:05: Main Dac calibration Complete.

13:37:05: Checking Ultra Zoom scan resolution and mass calibration...

13:37:05: Averaging spectra...

13:37:05:

13:37:43: m/z 195.087652 found at m/z 194.217735

13:37:43: (diff: -0.869917) with FWHM: 0.058939

13:37:43: m/z 195.087652 is still out of calibration!

13:38:22: m/z 524.264964 found at m/z 524.118011

13:38:22: (diff: -0.146953) with FWHM: 0.056574

13:39:00: m/z 1221.990636 found at m/z 1223.570007

13:39:00: (diff: 1.579371) with FWHM: 0.098949

13:39:00: m/z 1221.990636 is still out of calibration!

13:39:38: m/z 1521.971475 found at m/z 1524.418365

13:39:38: (diff: 2.446890) with FWHM: 0.148516

13:39:38: m/z 1521.971475 is still out of calibration!

13:40:17: m/z 1821.952313 found at m/z 1825.152832

13:40:17: (diff: 3.200519) with FWHM: 0.123166

13:40:17: m/z 1821.952313 is still out of calibration!

13:40:19: Ultra Zoom Scan Resolution and Mass Calibration FAILED

13:40:19:

13:40:20: Searching for calibration masses...

13:40:22: Peak found at m/z 195.004303

13:40:24: Peak found at m/z 1521.971436

13:40:27: Peak found at m/z 524.348267

13:43:18: New PQD Collision Energy Factor is: 16.549323

13:43:18: Checking CID Activation calibration...

13:43:18:

13:43:54: Optimum relative collision energy is 35.375000%

13:43:54: CID Efficiency at 30.00 ms Activation Time = 67.4%

13:43:54: CID Activation Calibration is OK

13:43:54: Checking PQD Activation calibration...

13:43:54:

13:44:26: Optimum relative collision energy is 30.000000%

13:44:26: PQD Efficiency at 0.100 ms Activation Time = 25.6%

13:44:26: PQD Activation Calibration is OK

13:44:26: Activation Calibration SUCCESSFUL

13:44:26:

13:44:26: SUMMARY of CALIBRATION:

13:44:26: Ultra Zoom Scan Resolution Calibration FAILED

13:44:26: Ultra Zoom Scan Mass Calibration FAILED

13:44:26: Activation Waveforms Calibration SUCCESSFUL

13:44:26:

13:44:26: NOT ALL requested calibration(s) successful!

13:44:26: Saving only Good Calibrations...

13:44:26: Calibration is FINISHED.

13:44:26:

13:46:34: Calibrating instrument...

13:46:34: Optimizing ultra zoom scan resolution...

13:46:34: Searching for calibration masses...

13:46:55: Peak found at m/z 195.147644

13:47:15: Peak found at m/z 524.294983

13:47:36: Peak found at m/z 1221.980591

13:47:56: Peak found at m/z 1521.981445

13:48:17: Peak found at m/z 1821.972290

13:48:17: Optimizing resolution...

13:48:59: Finished with mass 195.147644

13:49:45: Finished with mass 524.294983

13:50:27: Finished with mass 1221.980591

13:51:09: Finished with mass 1521.981445

13:51:52: Finished with mass 1821.972290

13:51:52: Smoothing data...

13:51:54: Optimum res ej amp for mass 195.147644 at 0.556833v

13:51:54: Optimum res ej amp for mass 524.294983 at 0.713418v

13:51:54: Optimum res ej amp for mass 1221.980591 at 1.854722v

13:51:54: Optimum res ej amp for mass 1521.981445 at 1.964034v

13:51:54: Optimum res ej amp for mass 1821.972290 at 2.282173v

13:51:54: old resej slope: 0.001195 old resej intercept: 0.394336

13:51:54: new resej slope: 0.001130 new resej intercept: 0.266973

13:51:54:

13:51:55: Resolution optimization is finished!

13:51:55:

13:51:55: Calibrating masses for Ultra Zoom scan...

13:51:55: Calibrating Vernier Dac for Ultra Zoom Scan ...

13:52:31: Vernier Dac calibration Complete.

13:52:31: Calibrating Main Dac for Ultra Zoom Scan ...

13:53:17: Main Dac calibration Complete.

13:53:17: Checking Ultra Zoom scan resolution and mass calibration...

13:53:17: Averaging spectra...

13:53:17:

13:53:56: m/z 195.087652 found at m/z 195.141792

13:53:56: (diff: 0.054140) with FWHM: 0.054772

13:54:34: m/z 524.264964 found at m/z 524.269913

13:54:35: (diff: 0.004949) with FWHM: 0.056006

13:55:13: m/z 1221.990636 found at m/z 1221.983429

13:55:13: (diff: -0.007207) with FWHM: 0.070069

13:55:51: m/z 1521.971475 found at m/z 1521.976746

13:55:51: (diff: 0.005271) with FWHM: 0.075190

13:56:29: m/z 1821.952313 found at m/z 1822.019287

13:56:29: (diff: 0.066974) with FWHM: 0.084039

13:56:31: Checking Ultra Zoom scan resolution and mass calibration...

13:56:31: Averaging spectra...

13:56:31:

13:57:42: m/z 1621.953000 found at m/z 1621.959045

13:57:42: (diff: 0.006045) with FWHM: 0.076345

13:57:44: Ultra Zoom Scan Resolution and Mass Calibration SUCCESSFUL

13:57:44:

13:57:44: SUMMARY of CALIBRATION:

13:57:44: Ultra Zoom Scan Resolution Calibration SUCCESSFUL

13:57:44: Ultra Zoom Scan Mass Calibration SUCCESSFUL

13:57:44:

13:57:44: All requested calibration(s) SUCCESSFULLY completed!

13:57:44: Saving All Calibrations...

13:57:44: Calibration is FINISHED.

13:57:44: