

23:50:36: Calibrating instrument...
23:50:36: Coarse Tune - multipole resonance frequency
23:50:44: Coarse Multipole resonance frequency is: 2806.000000
23:50:44: Previous Multipole resonance frequency was: 2803.600000
23:50:50: Multipole frequency now set to 2803.400000
23:50:58: Multipole Frequency Calibration Check PASSED
23:50:58: Multipole Frequency Calibration SUCCESSFUL
23:50:58:
23:50:58: Tuning RF resonance frequency
23:50:58: Previous RF resonance frequency was 1193.500000
23:51:02: Measured RF resonance frequency is: 1193.500000
23:51:02: RF frequency now set to 1193.500000
23:51:09: RF Frequency Calibration Check PASSED
23:51:09: Main RF Frequency Calibration SUCCESSFUL
23:51:09:
23:51:09: SUMMARY of CALIBRATION:
23:51:09: Multipole Frequency Calibration SUCCESSFUL
23:51:09: Main RF Frequency Calibration SUCCESSFUL
23:51:09:
23:51:09: All requested calibration(s) SUCCESSFULLY completed!
23:51:09: Saving All Calibrations...
23:51:09: Calibration is FINISHED.
23:51:09:

00:05:17: Calibrating instrument...
00:05:18: Calibrating Positive Ion Electron Multiplier Gain
00:05:26: Current voltage for multiplier number 1 is -1255 v
00:05:26: Setting gain for multiplier number 1 ...
00:06:02: Gain is 1983027 at -1255 v
00:06:43: Gain is 932913 at -1155 v
00:07:18: Gain is 316336 at -1055 v
00:08:02: Gain is 595414 at -1105 v
00:08:40: Gain is 553051 at -1085 v
00:09:13: Gain is 386227 at -1075 v
00:09:13: Gain adjustment is finished!
00:09:13: Multiplier Voltage = -1075 v Gain = 386227
00:09:21: Current voltage for multiplier number 2 is -1275 v
00:09:22: Setting gain for multiplier number 2 ...
00:09:54: Gain is 1533821 at -1275 v
00:10:30: Gain is 785203 at -1175 v
00:10:58: Gain is 325011 at -1075 v
00:11:43: Gain is 351300 at -1085 v
00:12:12: Gain is 387476 at -1090 v
00:12:12: Gain adjustment is finished!
00:12:12: Multiplier Voltage = -1090 v Gain = 387476
00:12:12: Checking Multiplier Gain Match
00:12:20: Multiplier Signal Ratio = 1.103099
00:12:20: Multiplier Gain Match OK
00:12:28: Current voltage for multiplier number 1 is -1075 v
00:12:28: Setting gain for multiplier number 1 ...
00:12:34: Gain is 403744 at -1075 v
00:12:40: Gain is 148220 at -975 v
00:12:47: Gain is 67149 at -925 v
00:12:54: Gain is 98224 at -945 v
00:12:54: Gain adjustment is finished!
00:12:54: Multiplier Voltage = -945 v Gain = 98224

00:13:01: Current voltage for multiplier number 2 is -1090 v
00:13:01: Setting gain for multiplier number 2 ...
00:13:07: Gain is 432939 at -1090 v
00:13:14: Gain is 156566 at -990 v
00:13:21: Gain is 42505 at -890 v
00:13:28: Gain is 81875 at -940 v
00:13:35: Gain is 94929 at -960 v
00:13:42: Gain is 117456 at -970 v
00:13:49: Gain is 114813 at -965 v
00:13:56: Gain is 100316 at -960 v
00:13:56: Gain adjustment is finished!
00:13:56: Multiplier Voltage = -960 v Gain = 100316
00:13:56: Positive Ion Multiplier Gain Calibration SUCCESSFUL
00:13:56:
00:13:57: SUMMARY of CALIBRATION:
00:13:57: Positive Ion Multiplier Gain Calibration SUCCESSFUL
00:13:57:
00:13:57: All requested calibration(s) SUCCESSFULLY completed!
00:13:57: Saving All Calibrations...
00:13:57: Calibration is FINISHED.

00:14:39: Calibrating instrument...
00:14:40: Optimizing normal scan resolution...
00:14:40: Searching for calibration masses...
00:14:42: Peak found at m/z 195.504303
00:14:45: Peak found at m/z 525.014954
00:14:48: Peak found at m/z 1223.407349
00:14:50: Peak found at m/z 1523.721436
00:14:52: Peak found at m/z 1824.035645
00:14:52: Optimizing resolution...
00:15:16: Finished with mass 195.504303
00:15:40: Finished with mass 525.014954
00:16:00: Finished with mass 1223.407349
00:16:19: Finished with mass 1523.721436
00:16:50: Finished with mass 1824.035645
00:16:50: Smoothing data...
00:16:52: Optimum res ej amp for mass 195.504303 at 7.550962v
00:16:52: Optimum res ej amp for mass 525.014954 at 12.672636v
00:16:52: Optimum res ej amp for mass 1223.407349 at 21.371643v
00:16:52: Optimum res ej amp for mass 1523.721436 at 27.151380v
00:16:52: Optimum res ej amp for mass 1824.035645 at 30.967771v
00:16:52: old resej slope: 0.011151 old resej intercept: 6.826678
00:16:52: new resej slope: 0.014259 new resej intercept: 4.839219
00:16:52:
00:17:00: New End Section Voltage: 12.000000
00:17:00: Previous Slope: 0.000000 New Slope: 0.000000
00:17:00: Resolution optimization is finished!
00:17:00:
00:17:00: Calibrating masses for normal scan...
00:17:00: Averaging spectra...
00:17:00:
00:17:10: Checking normal scan resolution and mass calibration...
00:17:10: Averaging spectra...
00:17:10:
00:17:17: m/z 195.087652 found at m/z 195.078705

00:17:17: (diff: -0.008947) with FWHM: 0.374757
00:17:25: m/z 524.264964 found at m/z 524.341431
00:17:26: (diff: 0.076467) with FWHM: 0.468007
00:17:33: m/z 1221.990636 found at m/z 1222.019775
00:17:33: (diff: 0.029139) with FWHM: 0.538242
00:17:40: m/z 1521.971475 found at m/z 1521.989990
00:17:40: (diff: 0.018515) with FWHM: 0.572842
00:17:47: m/z 1821.952313 found at m/z 1821.958862
00:17:47: (diff: 0.006549) with FWHM: 0.620432
00:17:49: Normal Scan Resolution & Mass Calibration SUCCESSFUL
00:17:49:
00:17:49: Calibrating masses for AGC and turbo scan...
00:17:49: Searching for calibration masses...
00:17:51: Peak found at m/z 195.533493
00:17:54: Peak found at m/z 524.661987
00:17:56: Peak found at m/z 1223.294312
00:17:58: Peak found at m/z 1523.674072
00:18:00: Peak found at m/z 1824.055298
00:18:00: Averaging spectra...
00:18:00:
00:18:12: Checking AGC scan mass calibration...
00:18:12: Averaging spectra...
00:18:12:
00:18:14: m/z 195.200170 found at m/z 195.189407
00:18:14: (diff: -0.010763) with FWHM: 1.316107
00:18:15: m/z 524.661980 found at m/z 524.783875
00:18:15: (diff: 0.121895) with FWHM: 1.761232
00:18:17: m/z 1222.294360 found at m/z 1222.401489
00:18:17: (diff: 0.107129) with FWHM: 1.638978
00:18:18: m/z 1522.340700 found at m/z 1522.390381
00:18:18: (diff: 0.049681) with FWHM: 1.846050
00:18:20: m/z 1822.388610 found at m/z 1822.461060
00:18:20: (diff: 0.072450) with FWHM: 2.019970
00:18:22: AGC Scan Mass Calibration SUCCESSFUL
00:18:22:
00:18:22: Optimizing enhanced scan resolution...
00:18:22: Searching for calibration masses...
00:18:24: Peak found at m/z 195.367645
00:18:27: Peak found at m/z 524.904907
00:18:29: Peak found at m/z 1223.310669
00:18:32: Peak found at m/z 1523.571533
00:18:34: Peak found at m/z 1823.872314
00:18:34: Optimizing resolution...
00:18:47: Finished with mass 195.367645
00:19:02: Finished with mass 524.904907
00:19:15: Finished with mass 1223.310669
00:19:28: Finished with mass 1523.571533
00:19:42: Finished with mass 1823.872314
00:19:42: Smoothing data...
00:19:44: Optimum res ej amp for mass 195.367645 at 4.252322v
00:19:44: Optimum res ej amp for mass 524.904907 at 6.720107v
00:19:44: Optimum res ej amp for mass 1223.310669 at 12.502425v
00:19:44: Optimum res ej amp for mass 1523.571533 at 16.501054v
00:19:44: Optimum res ej amp for mass 1823.872314 at 17.722970v
00:19:44: old resej slope: 0.010374 old resej intercept: 2.228551
00:19:44: new resej slope: 0.008568 new resej intercept: 2.454334

00:19:44:
00:19:45: Resolution optimization is finished!
00:19:45:
00:19:45: Calibrating masses for enhanced scan...
00:19:45: Averaging spectra...
00:19:45:
00:19:57: Checking Enhanced scan resolution and mass calibration...
00:19:57: Averaging spectra...
00:19:57:
00:20:05: m/z 195.087652 found at m/z 195.077347
00:20:05: (diff: -0.010305) with FWHM: 0.249074
00:20:13: m/z 524.264964 found at m/z 524.273376
00:20:13: (diff: 0.008412) with FWHM: 0.325613
00:20:20: m/z 1221.990636 found at m/z 1222.010986
00:20:20: (diff: 0.020350) with FWHM: 0.370071
00:20:27: m/z 1521.971475 found at m/z 1521.982178
00:20:27: (diff: 0.010703) with FWHM: 0.389657
00:20:34: m/z 1821.952313 found at m/z 1821.920776
00:20:34: (diff: -0.031537) with FWHM: 0.406969
00:20:36: Enhanced Scan Resolution & Mass Calibration SUCCESSFUL
00:20:36:
00:20:37: Optimizing zoom scan resolution...
00:20:37: Searching for calibration masses...
00:20:39: Peak found at m/z 195.367645
00:20:42: Peak found at m/z 524.784973
00:20:45: Peak found at m/z 1223.190674
00:20:48: Peak found at m/z 1523.511475
00:20:51: Peak found at m/z 1823.852295
00:20:51: Optimizing resolution...
00:21:08: Finished with mass 195.367645
00:21:33: Finished with mass 524.784973
00:21:48: Finished with mass 1223.190674
00:22:04: Finished with mass 1523.511475
00:22:20: Finished with mass 1823.852295
00:22:20: Smoothing data...
00:22:22: Optimum res ej amp for mass 195.367645 at 2.839190v
00:22:22: Optimum res ej amp for mass 524.784973 at 2.301513v
00:22:22: Optimum res ej amp for mass 1223.190674 at 6.147571v
00:22:22: Optimum res ej amp for mass 1523.511475 at 6.808169v
00:22:22: Optimum res ej amp for mass 1823.852295 at 8.822800v
00:22:22: old resej slope: 0.003841 old resej intercept: 2.635508
00:22:22: new resej slope: 0.003796 new resej intercept: 1.226736
00:22:22:
00:22:23: Resolution optimization is finished!
00:22:23:
00:22:23: Calibrating masses for zoom scan...
00:22:23: Averaging spectra...
00:22:23:
00:22:31: Checking zoom scan resolution and mass calibration...
00:22:31: Averaging spectra...
00:22:31:
00:22:39: m/z 195.087652 found at m/z 195.126877
00:22:39: (diff: 0.039225) with FWHM: 0.165979
00:22:48: m/z 524.264964 found at m/z 524.240051
00:22:48: (diff: -0.024913) with FWHM: 0.188335
00:22:57: m/z 1221.990636 found at m/z 1221.980225

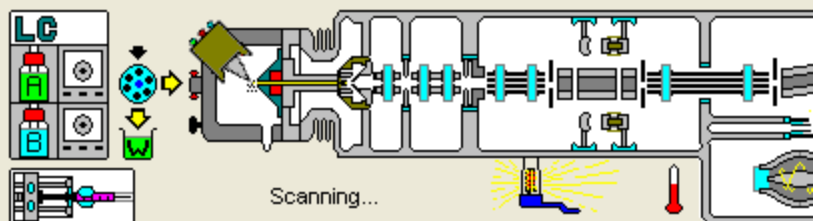
00:22:57: (diff: -0.010411) with FWHM: 0.215034
00:23:06: m/z 1521.971475 found at m/z 1521.964355
00:23:06: (diff: -0.007120) with FWHM: 0.234646
00:23:15: m/z 1821.952313 found at m/z 1822.004883
00:23:15: (diff: 0.052570) with FWHM: 0.246235
00:23:17: Zoom Scan Resolution & Mass Calibration SUCCESSFUL
00:23:17:
00:23:17: Searching for calibration masses...
00:23:19: Peak found at m/z 195.087646
00:23:22: Peak found at m/z 1521.971436
00:23:24: Peak found at m/z 524.348267
00:23:57: Maximum Injection Time Set to: 0.715937
00:24:26: Checking isolation waveform calibration...
00:24:26:
00:24:31: 100.000000 percent of m/z 525.348267 retained
00:24:31: 99.780870 percent of m/z 524.348267 ejected
00:24:31: 99.510667 percent of m/z 526.348267 ejected
00:24:31: Isolation efficiency of m/z 525.348267 is OK
00:24:31: Checking isolation waveform calibration...
00:24:31:
00:24:36: 86.030403 percent of m/z 1822.869019 retained
00:24:36: 98.532873 percent of m/z 1821.869019 ejected
00:24:36: 98.147592 percent of m/z 1823.869019 ejected
00:24:36: Isolation efficiency of m/z 1822.869019 is OK
00:24:36: Isolation Waveform Calibration SUCCESSFUL
00:24:36:
00:24:36: Optimizing ultra zoom scan resolution...
00:24:36: Searching for calibration masses...
00:24:54: Peak found at m/z 196.017639
00:25:12: Peak found at m/z 526.584961
00:25:29: Peak found at m/z 1227.490601
00:25:46: Peak found at m/z 1528.821411
00:26:04: Peak found at m/z 1830.222290
00:26:04: Optimizing resolution...
00:26:45: Finished with mass 196.017639
00:27:36: Finished with mass 526.584961
00:28:18: Finished with mass 1227.490601
00:29:00: Finished with mass 1528.821411
00:29:45: Finished with mass 1830.222290
00:29:45: Smoothing data...
00:29:47: Optimum res ej amp for mass 196.017639 at 0.545648v
00:29:47: Optimum res ej amp for mass 526.584961 at 0.953689v
00:29:47: Optimum res ej amp for mass 1227.490601 at 1.613818v
00:29:47: Optimum res ej amp for mass 1528.821411 at 1.943801v
00:29:47: Optimum res ej amp for mass 1830.222290 at 2.562276v
00:29:47: old resej slope: 0.001240 old resej intercept: 0.303821
00:29:47: new resej slope: 0.001124 new resej intercept: 0.325323
00:29:47:
00:29:48: Resolution optimization is finished!
00:29:48:
00:29:48: Calibrating masses for Ultra Zoom scan...
00:29:48: Calibrating Vernier Dac for Ultra Zoom Scan ...
00:31:08: Vernier Dac calibration Complete.
00:31:08: Checking Ultra zoom scan resolution and mass calibration...
00:31:08: Averaging spectra...
00:31:08:

00:32:04: m/z 195.087652 found at m/z 195.150833
00:32:04: (diff: 0.063181) with FWHM: 0.062218
00:33:01: m/z 524.264964 found at m/z 524.255066
00:33:01: (diff: -0.009898) with FWHM: 0.064978
00:33:34: m/z 1221.990636 found at m/z 1221.953491
00:33:34: (diff: -0.037145) with FWHM: 0.076860
00:34:06: m/z 1521.971475 found at m/z 1521.980591
00:34:06: (diff: 0.009116) with FWHM: 0.085253
00:34:39: m/z 1821.952313 found at m/z 1822.004028
00:34:39: (diff: 0.051715) with FWHM: 0.091171
00:34:41: Checking Ultra zoom scan resolution and mass calibration...
00:34:41: Averaging spectra...
00:34:41:
00:35:45: m/z 1621.953000 found at m/z 1621.954468
00:35:45: (diff: 0.001468) with FWHM: 0.084478
00:35:47: Ultra Zoom Scan Resolution and Mass Calibration SUCCESSFUL
00:35:47:
00:35:47: Searching for calibration masses...
00:35:50: Peak found at m/z 195.004303
00:35:52: Peak found at m/z 1521.971436
00:35:55: Peak found at m/z 524.348267
00:39:12: New PQD Collision Energy Factor is: 14.416667
00:39:12: Checking CID Activation calibration...
00:39:12:
00:39:30: Optimum relative collision energy is 24.000000%
00:39:30: CID Efficiency at 30.00 ms Activation Time = 74.6%
00:39:30: CID Activation Calibration is OK
00:39:30: Checking PQD Activation calibration...
00:39:30:
00:39:57: Optimum relative collision energy is 30.500000%
00:39:57: PQD Efficiency at 0.100 ms Activation Time = 22.8%
00:39:57: PQD Activation Calibration is OK
00:39:57: Activation Calibration SUCCESSFUL
00:39:57:
00:39:58: SUMMARY of CALIBRATION:
00:39:58: Normal Scan Resolution Calibration SUCCESSFUL
00:39:58: Normal Scan Mass Calibration SUCCESSFUL
00:39:58: Enhanced Scan Mass Calibration SUCCESSFUL
00:39:58: Enhanced Scan Resolution Calibration SUCCESSFUL
00:39:58: AGC Scan Mass Calibration SUCCESSFUL
00:39:58: Zoom Scan Resolution Calibration SUCCESSFUL
00:39:58: Zoom Scan Mass Calibration SUCCESSFUL
00:39:58: Isolation Waveform Calibration SUCCESSFUL
00:39:58: Ultra Zoom Scan Resolution Calibration SUCCESSFUL
00:39:58: Ultra Zoom Scan Mass Calibration SUCCESSFUL
00:39:58: Activation Calibration SUCCESSFUL
00:39:58:
00:39:58: All requested calibration(s) SUCCESSFULLY completed!
00:39:58: Saving All Calibrations...
00:39:58: Calibration is FINISHED.
00:39:58:

00:13:57:

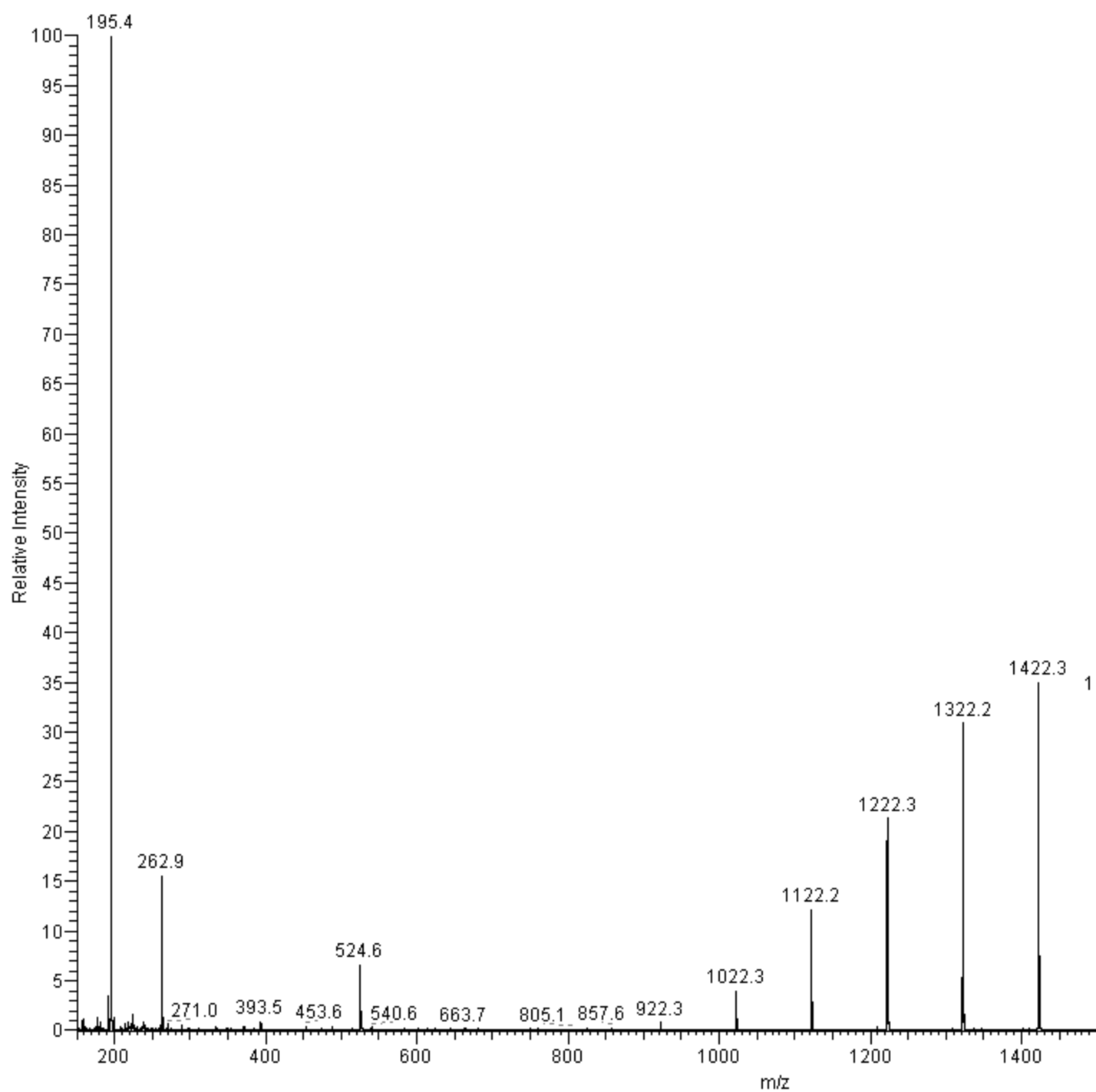
Thermo Tune Plus - Untitled

File View Control ScanMode Display Setup Diagnostics Help



#4054 IT: 9.454 ST: 0.20 uS: 1 NL: 4.04E5

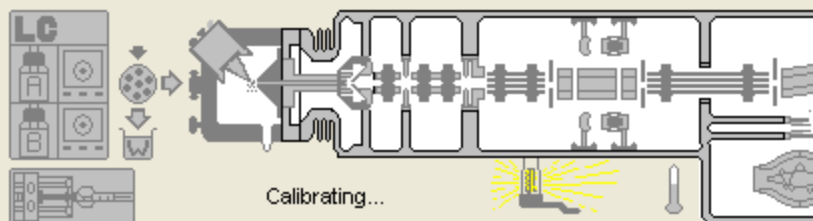
F: ITMS + p ESI Full ms [150.00-2000.00]



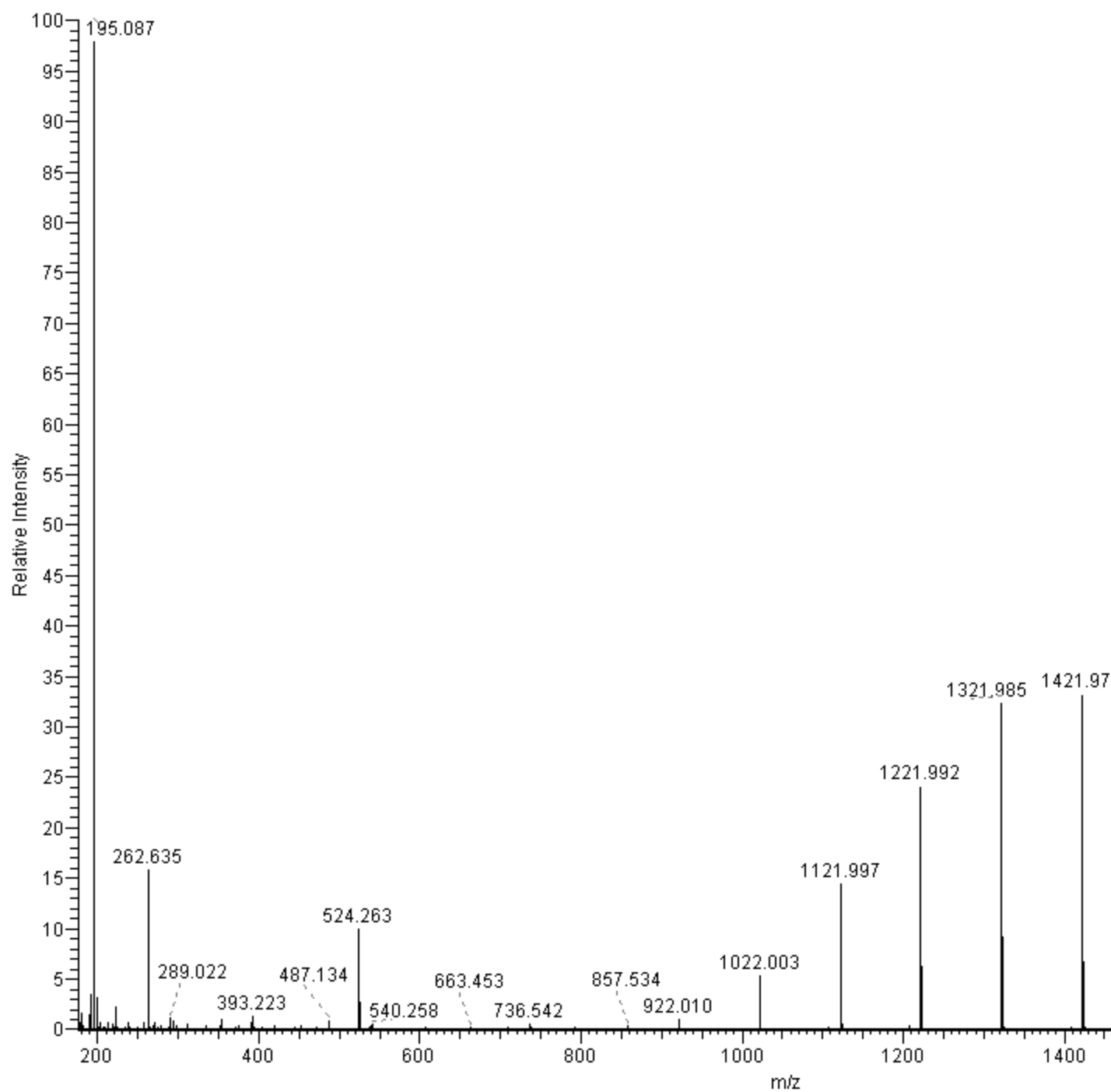
00:41:27: Calibrating instrument...
00:41:27: Adjusting FT Transfer Multipole RF frequency
00:41:38: Previous value: -50.000000 New value: -31.500000
00:41:38: Minimum current: 0.068676
00:41:39: FT Transfer Multipole RF Calibration SUCCESSFUL
00:41:39: Adjusting FT Storage Multipole RF frequency
00:41:47: Previous value: -50.000000 New value: -56.900000
00:41:47: Minimum current: 0.062175
00:41:47: Adjusting FT main RF Amplitude
00:42:14: Previous value: 0.850000 New value: 0.857529
00:42:17: FT Storage Multipole RF Calibration SUCCESSFUL
00:42:17: SUMMARY of CALIBRATION:
00:42:17: FT Transfer Multipole RF Calibration SUCCESSFUL
00:42:17: FT Storage Multipole RF Calibration SUCCESSFUL
00:42:17:
00:42:17: All requested calibration(s) SUCCESSFULLY completed!
00:42:17: Saving All Calibrations...
00:42:17: Calibration is FINISHED.
00:42:18:

Thermo Tune Plus - Untitled

File View Control ScanMode Display Setup Diagnostics Help



#5405 IT: 64.465 ST: 0.99 uS: 1 CS: 1 AMW: 194.08 NL: 1.91E7
F: FTMS + p ESI Full ms [175.00-1935.00]



00:48:44: Calibrating instrument...

00:48:46: Running FT mass calibration for
00:48:46: universal mass range / positive ions
00:48:46: Reference masses m/z 195.087652 .. 1721.958701.
00:48:46: WARNING: FT analyzer temperature not stable.
00:48:46: Temperature setpoint = 26.000000
00:48:46: Current temperature = 25.410000
00:48:46: Temperature deviations can affect mass accuracy.
00:48:48: 0.100000E6: 3.002346ppm, B=47541919.822207, C=-17594216.176292
00:48:51: 0.300000E6: 3.161156ppm, B=47541874.294552, C=-17791208.896987
00:48:54: 1.000000E6: 3.418507ppm, B=47541683.793490, C=-17809298.921228
00:48:58: 3.000000E6: 3.807576ppm, B=47541338.567526, C=-18301157.973689
00:48:58: [Info: 0.000000 ppm NLC at m/z 200]
00:48:58: NOTE: For best external mass accuracy, repeat calibration
00:48:58: when analyzer temperatures have stabilized!

00:49:01: Running FT mass calibration for
00:49:01: small mass range / positive ions
00:49:01: Reference masses m/z 138.066190 .. 524.264964.
00:49:01: WARNING: FT analyzer temperature not stable.
00:49:01: Temperature setpoint = 26.000000
00:49:01: Current temperature = 25.410000
00:49:01: Temperature deviations can affect mass accuracy.
00:49:04: 0.100000E6: 0.698586ppm, B=47542612.958372, C=-67730700.427292
00:49:07: 0.300000E6: 0.571882ppm, B=47542500.179425, C=-67368527.300636
00:49:11: 1.000000E6: 0.359466ppm, B=47542335.125553, C=-69671721.780625
00:49:16: 3.000000E6: 0.125379ppm, B=47542171.520748, C=-78184506.156063
00:49:16: NOTE: For best external mass accuracy, repeat calibration
00:49:16: when analyzer temperatures have stabilized!

00:49:19: FT Mass Calibration (pos) SUCCESSFUL

00:49:19: Second iteration of FT mass calibration:

00:49:19: Running FT mass calibration for
00:49:19: universal mass range / positive ions
00:49:19: Reference masses m/z 195.087652 .. 1721.958701.
00:49:19: WARNING: FT analyzer temperature not stable.
00:49:19: Temperature setpoint = 26.000000
00:49:19: Current temperature = 25.420000
00:49:19: Temperature deviations can affect mass accuracy.
00:49:22: 0.100000E6: 1.142404ppm, B=47541886.796127, C=-16801967.914387
00:49:24: 0.300000E6: 1.352695ppm, B=47541805.044183, C=-16931580.073032
00:49:27: 1.000000E6: 1.744859ppm, B=47541594.125201, C=-16558633.387897
00:49:31: 3.000000E6: 1.663712ppm, B=47541255.800653, C=-16279872.967099
00:49:32: [Info: 6.611175 ppm NLC at m/z 200]
00:49:32: NOTE: For best external mass accuracy, repeat calibration
00:49:32: when analyzer temperatures have stabilized!

00:49:35: Running FT mass calibration for

00:49:35: small mass range / positive ions
00:49:35: Reference masses m/z 138.066190 .. 524.264964.
00:49:35: WARNING: FT analyzer temperature not stable.
00:49:35: Temperature setpoint = 26.000000
00:49:35: Current temperature = 25.420000
00:49:35: Temperature deviations can affect mass accuracy.
00:49:37: 0.100000E6: 0.587637ppm, B=47542650.246613, C=-71505381.614375
00:49:40: 0.300000E6: 0.479230ppm, B=47542491.240670, C=-71473029.659947
00:49:44: 1.000000E6: 0.348435ppm, B=47542335.568689, C=-72877948.174591
00:49:49: 3.000000E6: 0.095939ppm, B=47542210.089878, C=-81170786.691804
00:49:49: NOTE: For best external mass accuracy, repeat calibration
00:49:49: when analyzer temperatures have stabilized!
00:49:52: FT Mass Calibration (pos) SUCCESSFUL
00:49:52: SUMMARY of CALIBRATION:
00:49:52: FT Mass Calibration (pos) SUCCESSFUL
00:49:52:
00:49:52: All requested calibration(s) SUCCESSFULLY completed!
00:49:52: Saving All Calibrations...
00:49:52: Calibration is FINISHED.
00:49:52:

Negative

00:58:12: Calibrating instrument...
00:58:12: Coarse Tune - multipole resonance frequency
00:58:20: Coarse Multipole resonance frequency is: 2802.000000
00:58:20: Previous Multipole resonance frequency was: 2803.400000
00:58:26: Multipole frequency now set to 2803.800000
00:58:34: Multipole Frequency Calibration Check PASSED
00:58:34: Multipole Frequency Calibration SUCCESSFUL
00:58:34:
00:58:34: Tuning RF resonance frequency
00:58:34: Previous RF resonance frequency was 1193.500000
00:58:37: Measured RF resonance frequency is: 1193.500000
00:58:37: RF frequency now set to 1193.500000
00:58:44: RF Frequency Calibration Check PASSED
00:58:44: Main RF Frequency Calibration SUCCESSFUL
00:58:44:
00:58:45: SUMMARY of CALIBRATION:
00:58:45: Multipole Frequency Calibration SUCCESSFUL
00:58:45: Main RF Frequency Calibration SUCCESSFUL
00:58:45:
00:58:45: All requested calibration(s) SUCCESSFULLY completed!
00:58:45: Saving All Calibrations...
00:58:45: Calibration is FINISHED.
00:58:45:

