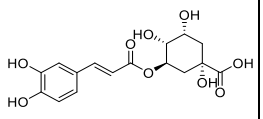
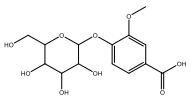
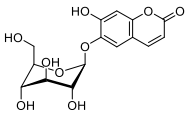
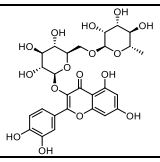
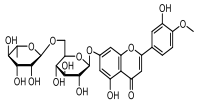
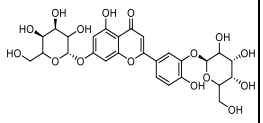
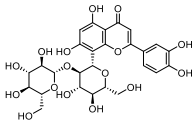
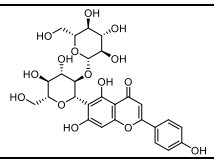
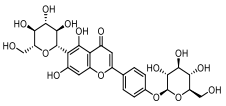
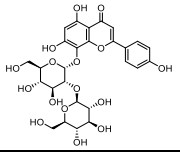
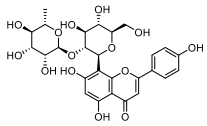
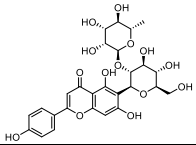
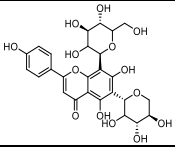
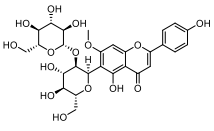
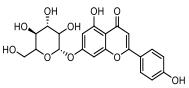
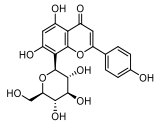
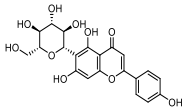
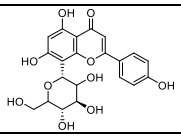
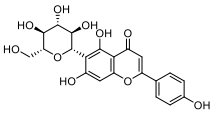
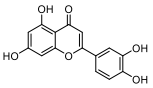
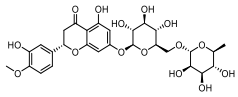
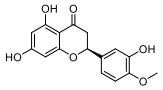
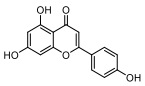
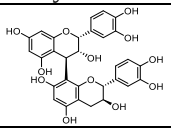
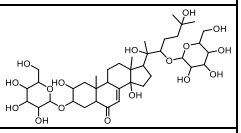
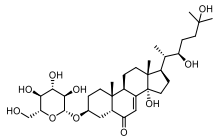
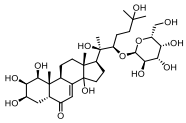
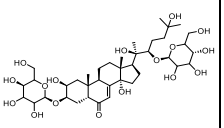
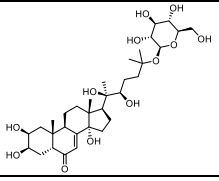
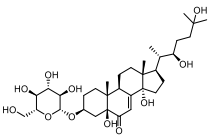
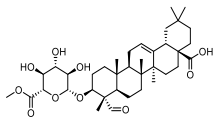
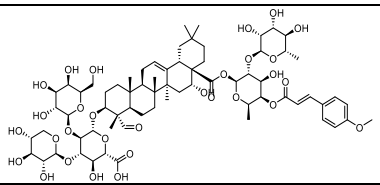
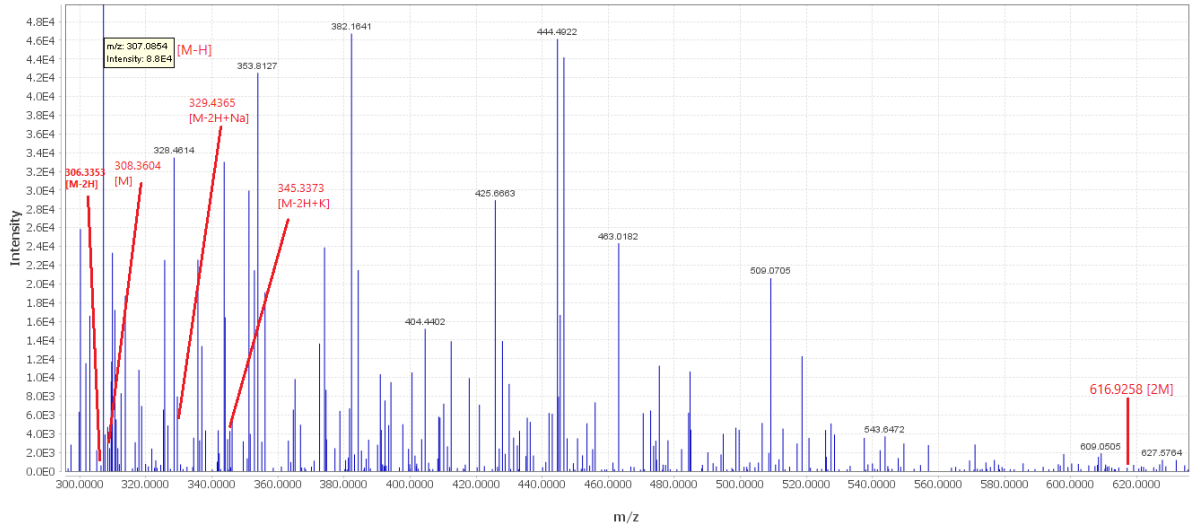
جدول S1- ترکیبات فیتوشیمیایی شناسایی شده درعصاره متانولی ریشه گیاه سلین هرز

Table S1- Phytochemical compounds identified in the methanolic extract of *Silene conoidea* root.

Chlorogenic acid	Vanillic acid hexoside	Esculin	Rutin	Diosmin
				
Luteolin-di-*O* glucoside derivative	Orientin-*O*-glucoside derivative	Isovitexin-*O*-glucoside	Isosaponarin	Vitexin-*O*-glucoside
				
Vitexin-*O*-rhamnoside derivative	Isovitexin-*O*-rhamnoside derivative	Vicenin derivative	Swertisin-*O*-glucoside derivative	Apigenin-*O*-glucoside
				
Vitexin	Isovitexin	Neovitexin	Isoneovitexin	Luteolin
				
Hesperidin	Hesperetin	Apigenin	Procyanidin B1	Sileneoside H
				
Sileneoside E	Sileneoside C	Sileneoside B	20-Hydroxyecdysone-25- Glucoside	Sileneoside F
				
Gypsogenin-*O*-glucuronide derivative	Sinocrassuloside X			
				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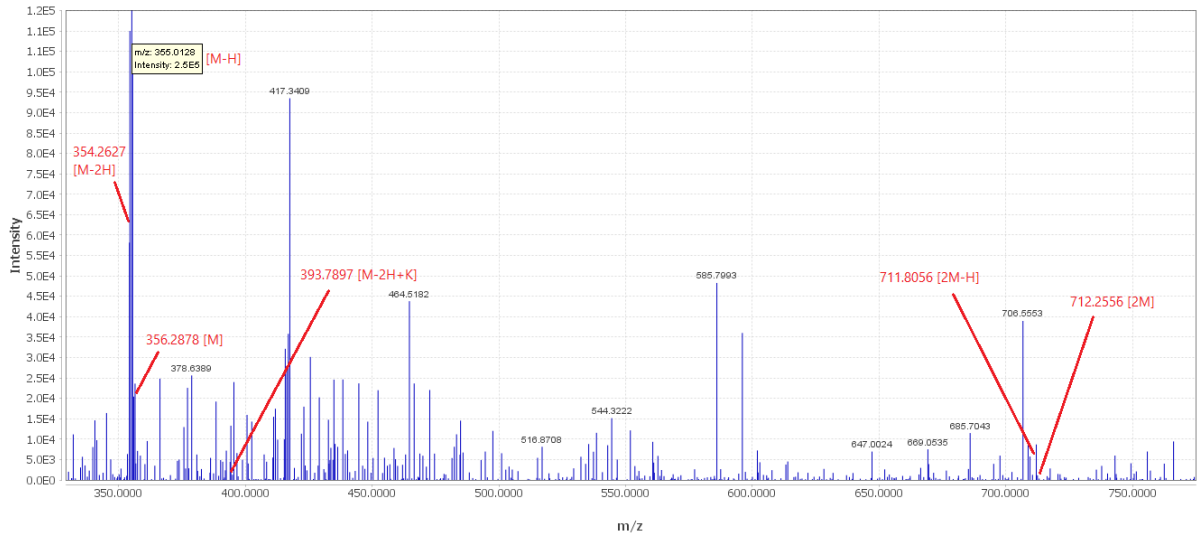
353.8127
329.4365
[M-2H+Na]
328.4614
306.3353
[M-2H]
308.3604
[M]
345.3373
[M-2H+K]
425.6663
463.0182
509.0705
404.4402
616.9258 [2M]
543.8472
609.0505
627.5764
Intensity
m/z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Intensity: 2.5E5
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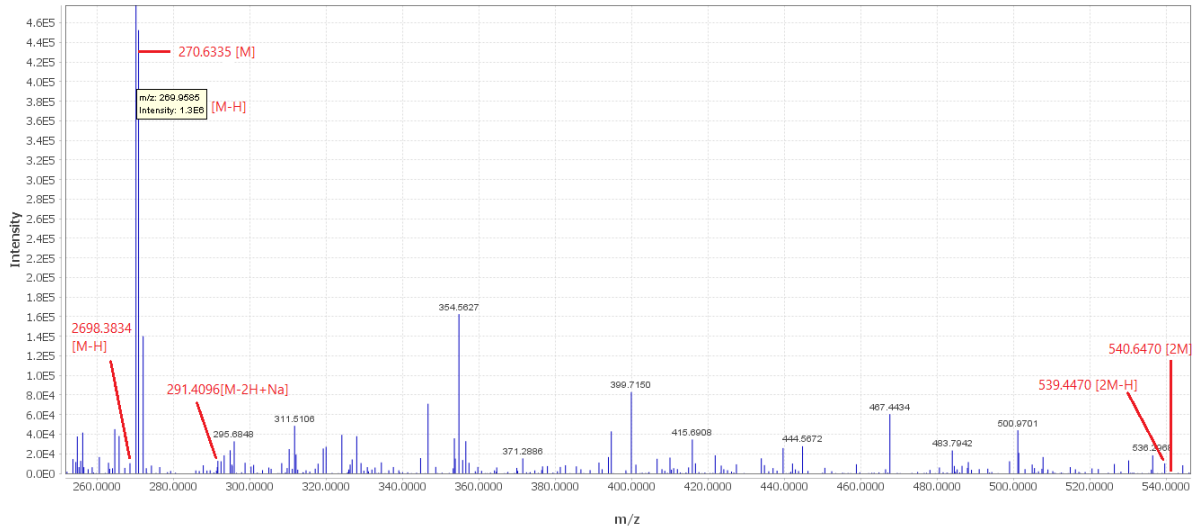
354.2627
[M-2H]
393.7897 [M-2H+K]
464.5182
585.7993
711.8056 [2M-H]
712.2556 [2M]
706.5553
356.2878 [M]
378.6389
544.3222
516.8708
685.7043
647.0024
669.0535
Intensity
m/z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[M-H]
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2698.3834
[M-H]
291.4096[M-2H+Na]
399.7150
540.6470 [2M]
539.4470 [2M-H]
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415.6908
444.5672
483.7942
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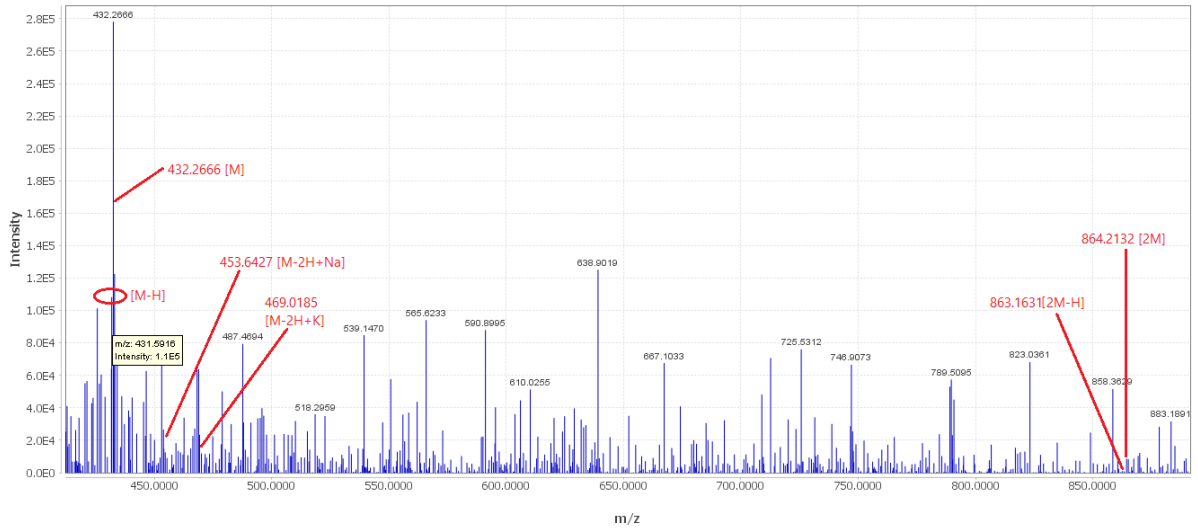
Intensity
m/z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m/z
m/z: 431.5916
Intensity: 1.1E5
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432.2666 [M]
[M-H]
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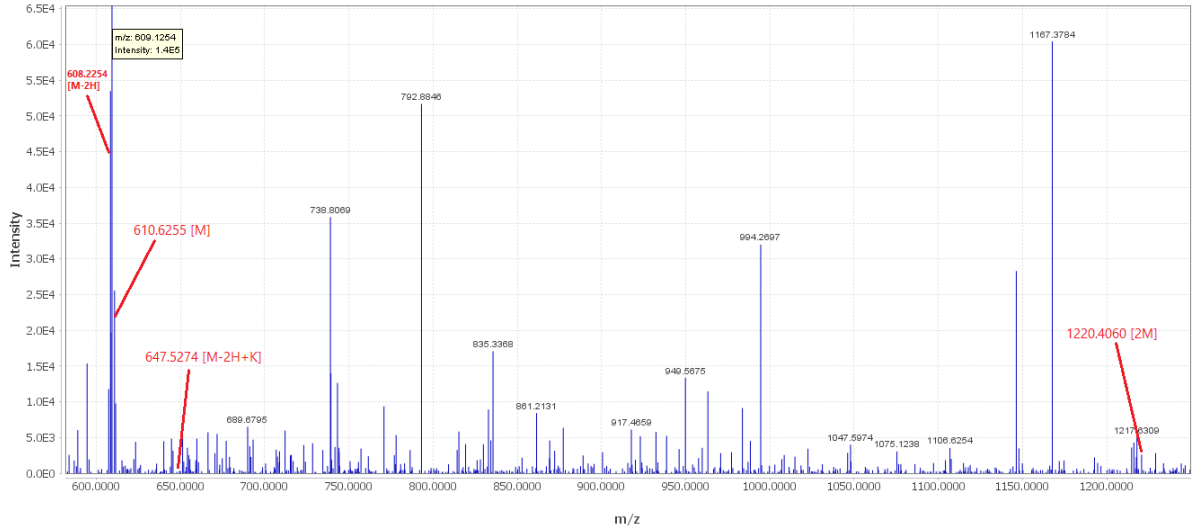
469.0185
[M-2H+K]
487.4694
539.1470
565.6233
590.8995
638.9019
667.1033
725.5312
746.9073
789.5095
823.0361
858.3629
863.1631[2M-H]
864.2132 [2M]
883.1891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m/z
m/z: 609.1254
Intensity: 1.4E5
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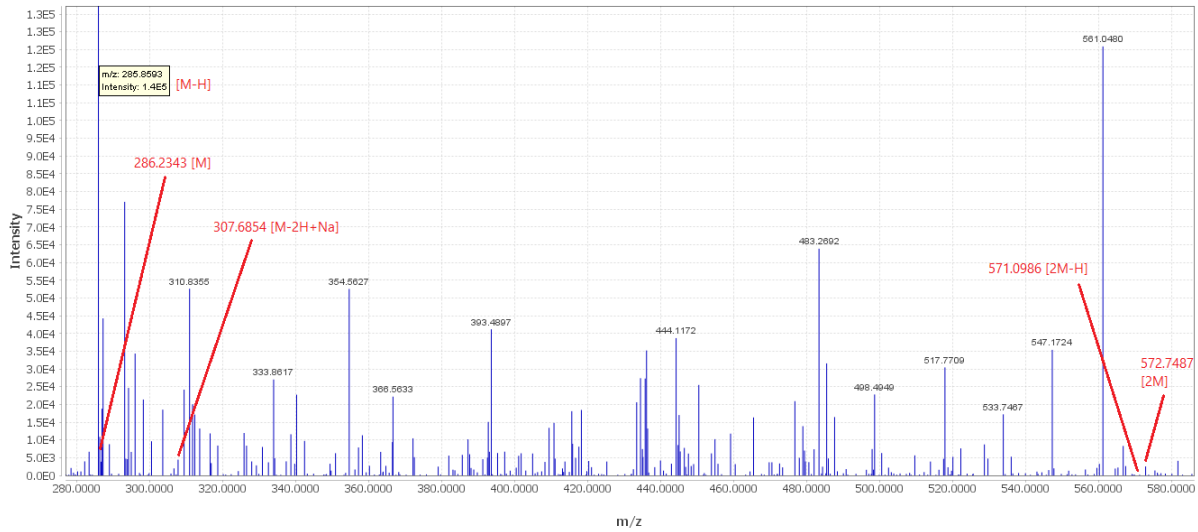
738.8069
792.8846
835.3368
861.2131
917.4659
949.5875
994.2697
1047.5974
1075.1238
1106.6254
1167.3784
1220.4060 [2M]
1217.6309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m/z
m/z: 285.8593
Intensity: 1.4E5
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333.8617
354.5627
366.5633
393.4897
444.1172
483.2692
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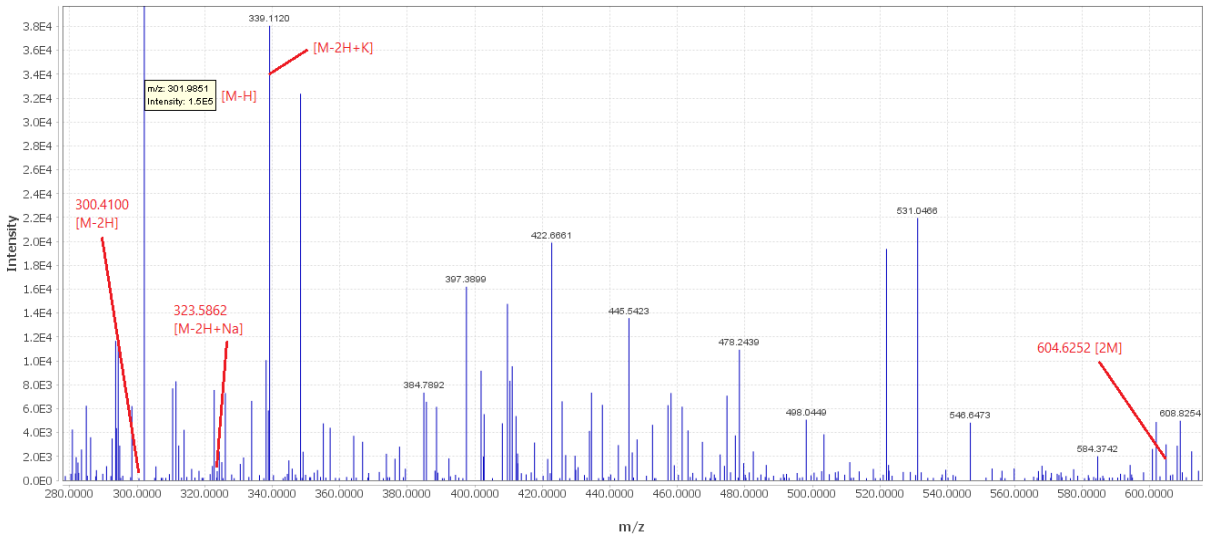
517.7709
533.7467
547.1724
561.0480
571.0986 [2M-H]
572.7487
[2M]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[M-2H]
323.5862
[M-2H+Na]
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397.3899
445.5423
478.2439
531.0466
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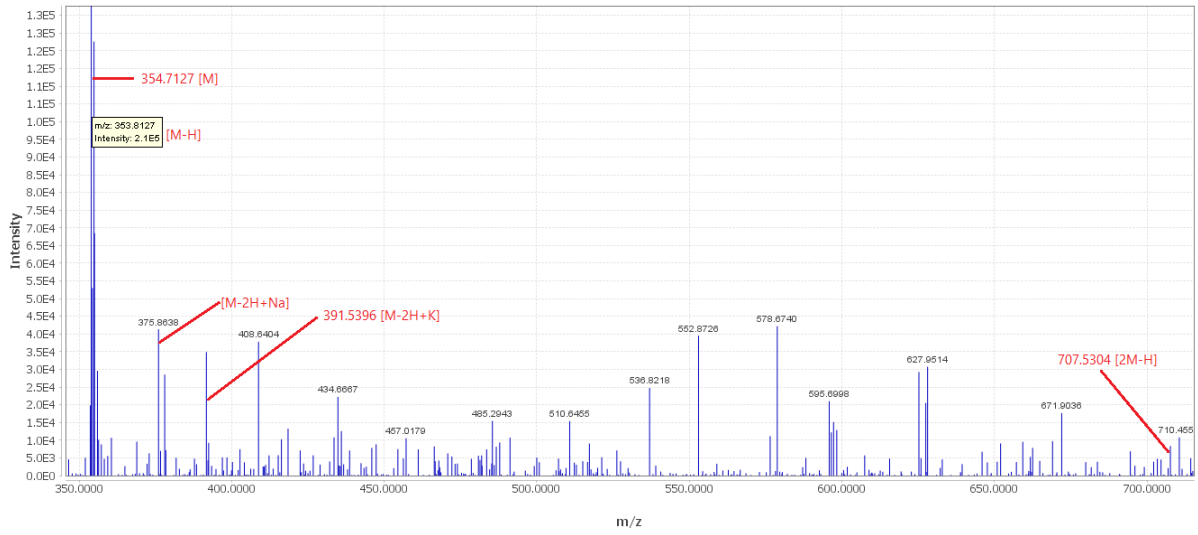
498.0449
546.6473
608.8254
584.3742
Intensity
m/z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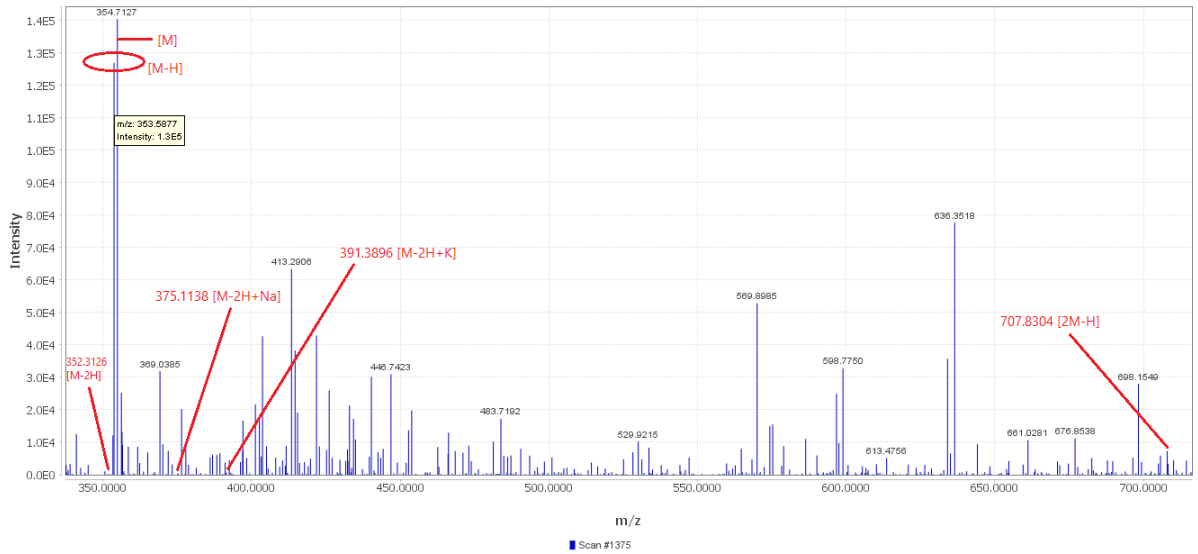
375.8638
408.6404
434.6667
457.0179
485.2943
510.6455
536.8218
552.8726
578.6740
595.6998
627.9514
671.9036
707.5304 [2M-H]
710.455
Intensity
m/z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[M-H]
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Intensity: 1.3E5
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413.2906
375.1138 [M-2H+Na]
352.3126
[M-2H]
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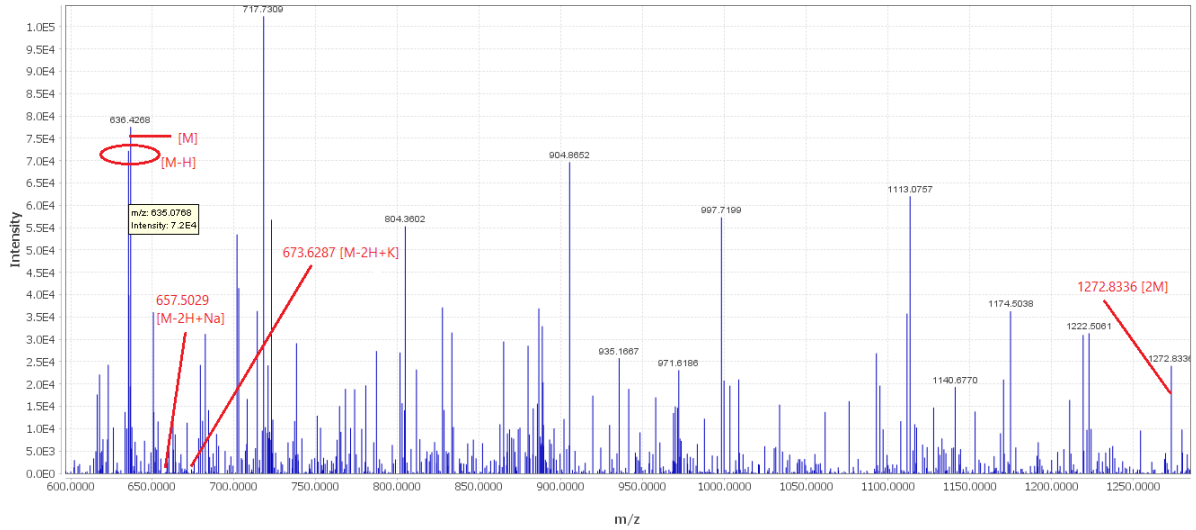
446.7423
483.7192
529.9215
569.8985
598.7750
636.3518
613.4756
661.0281
676.8538
707.8304 [2M-H]
698.1549
Intensity
m/z
Scan #1375


717.7309
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[M-H]
m/z: 635.0768
Intensity: 7.2E4
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804.3602
997.7199
1113.0757
673.6287 [M-2H+K]
657.5029
[M-2H+Na]
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1174.5038
1222.5061
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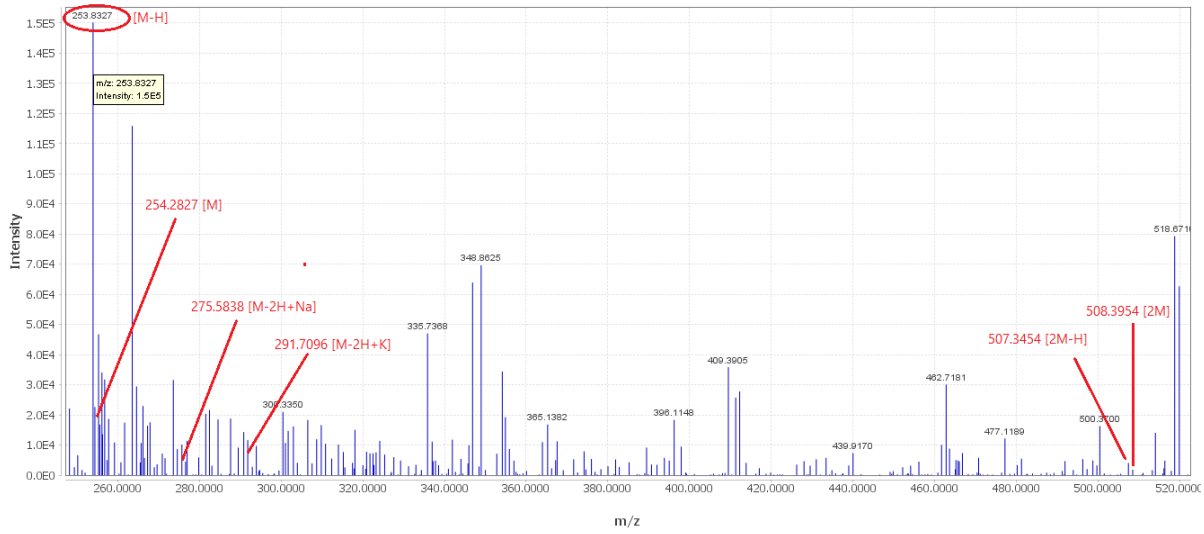
971.6186
1140.6770
Intensity
m/z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Intensity: 1.5E5
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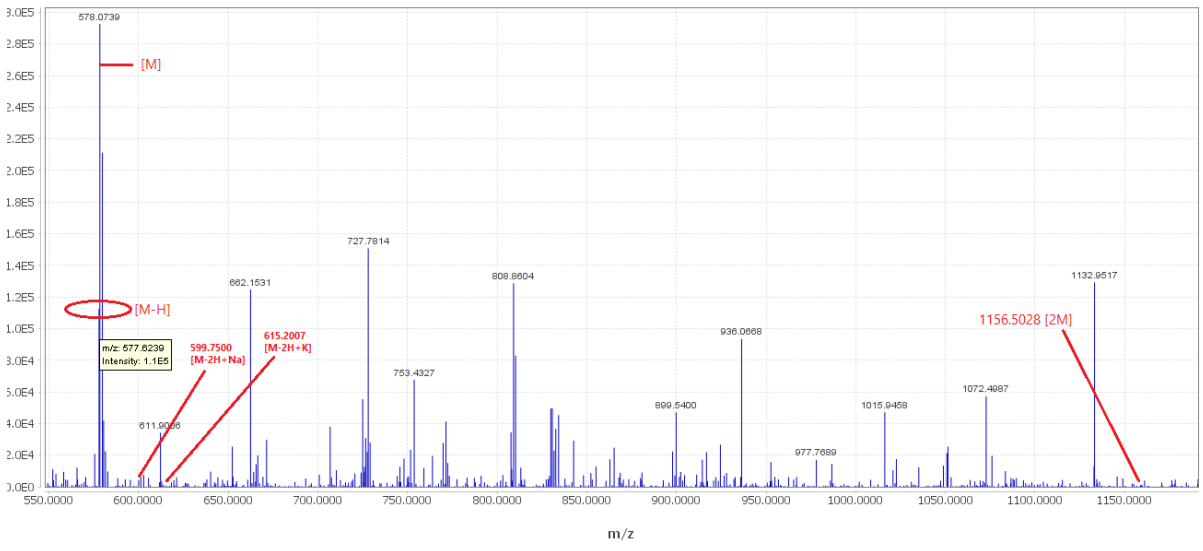
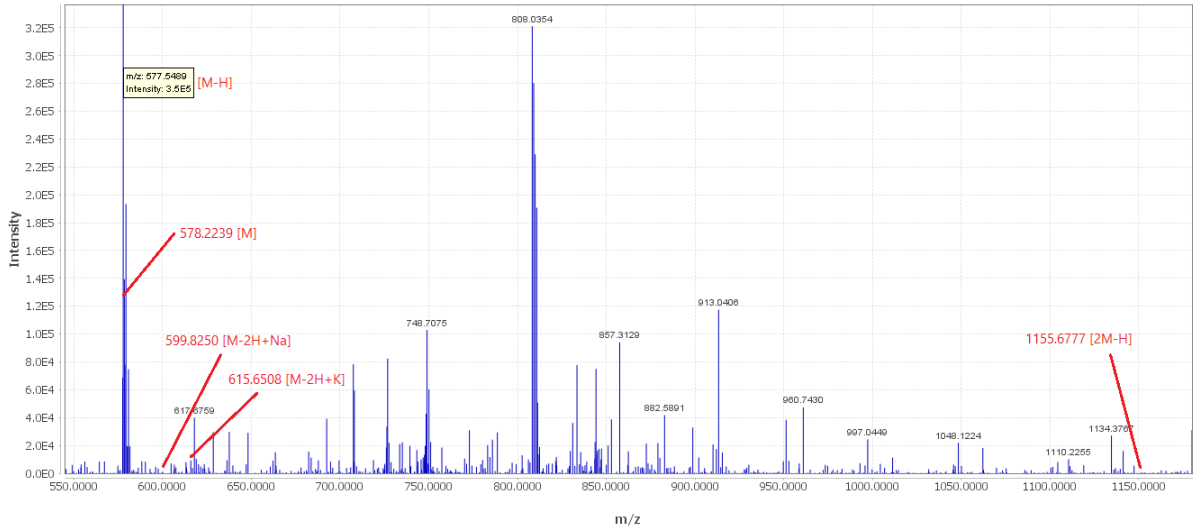
348.8625
275.5838 [M-2H+Na]
335.7368
291.7096 [M-2H+K]
409.3905
462.7181
508.3954 [2M]
507.3454 [2M-H]
309.3350
365.1382
396.1148
439.9170
477.1189
Intensity
m/z


578.0739
[M]
[M-H]
m/z: 577.6239
Intensity: 1.1E5
599.7500
[M-2H+Na]
615.2007
[M-2H+K]
727.7814
662.1531
808.8604
1132.9517
936.0668
1156.5028 [2M]
753.4327
899.5400
1015.9458
1072.4987
977.7689
m/z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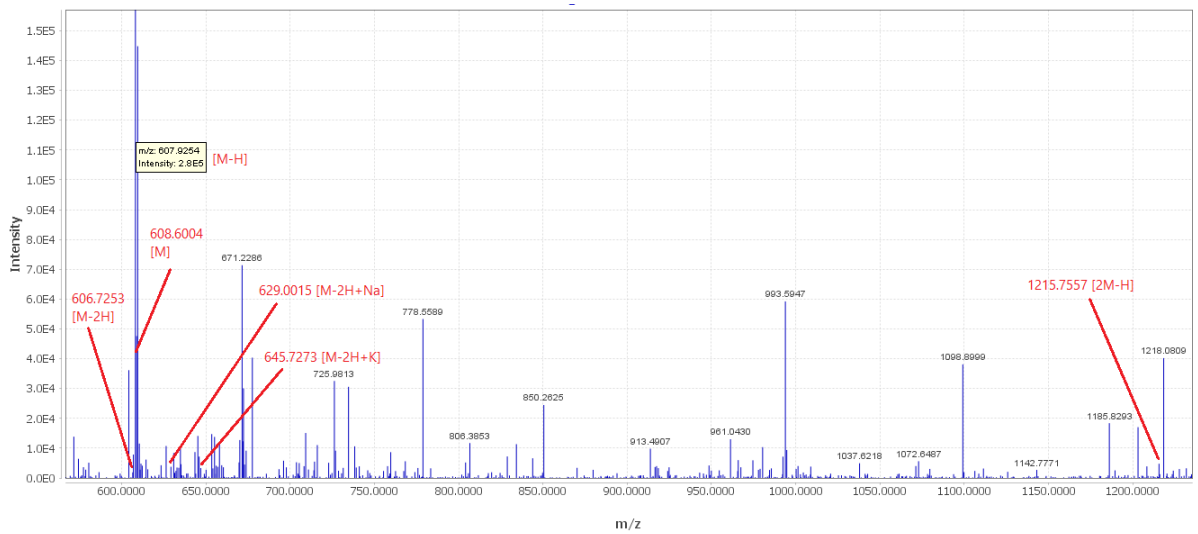
578.2239 [M]
599.8250 [M-2H+Na]
615.6508 [M-2H+K]
1155.6777 [2M-H]
808.0354
913.0406
748.7075
857.3129
882.5891
960.7430
997.0449
1048.1224
1134.3767
1110.2255
617.5759
Intensity
m/z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Intensity: 2.8E5
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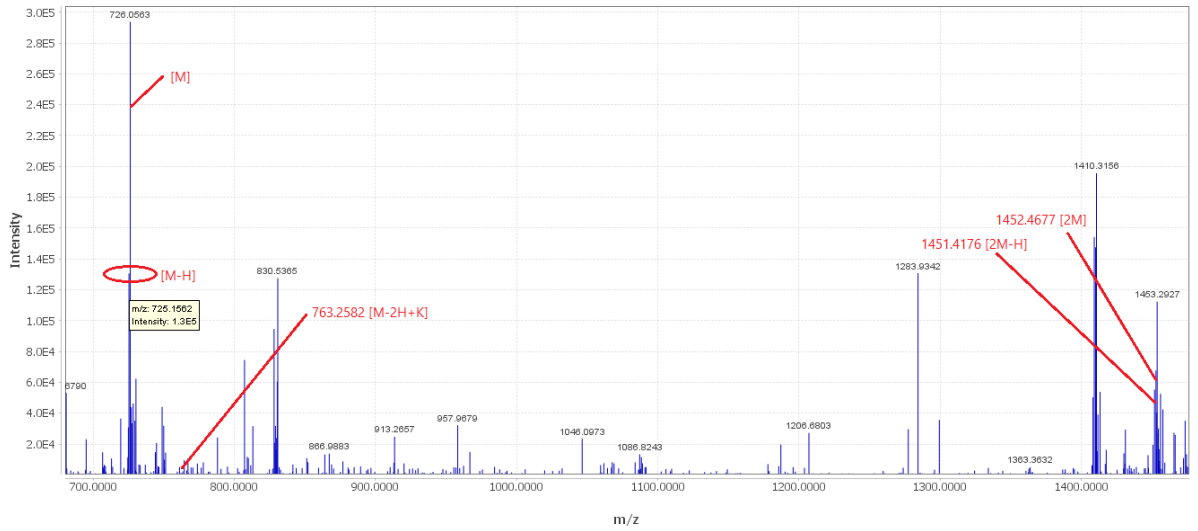
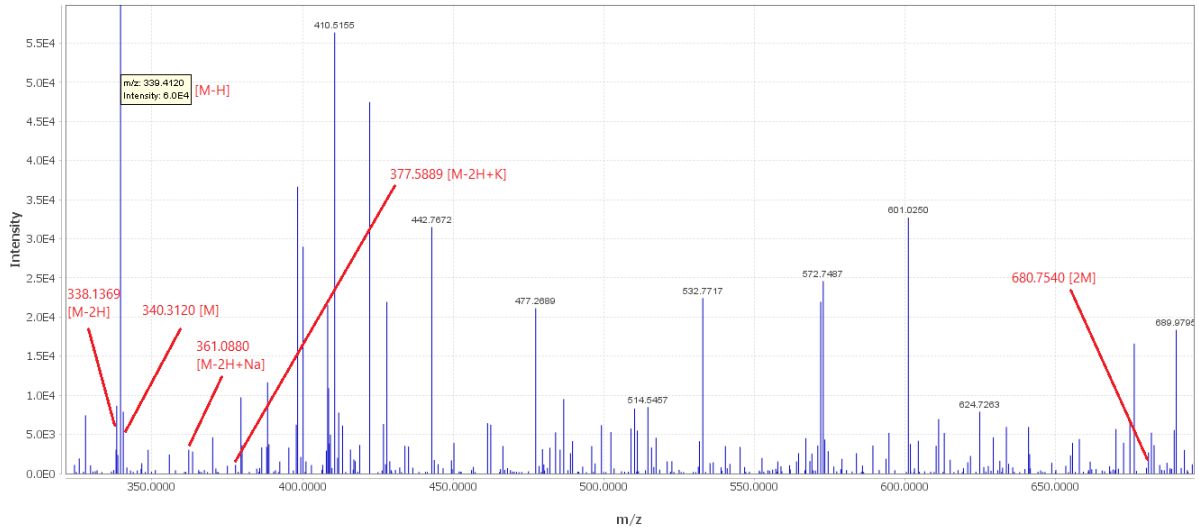
608.6004
[M]
606.7253
[M-2H]
629.0015 [M-2H+Na]
645.7273 [M-2H+K]
1215.7557 [2M-H]
671.2286
778.5589
725.9813
993.5947
1098.8999
1218.0809
850.2625
1185.8293
806.3853
913.4907
961.0430
1037.6218
1072.6487
1142.7771
Intensity
m/z


726.0563
[M]
[M-H]
m/z: 725.1562
Intensity: 1.3E5
763.2582 [M-2H+K]
1452.4677 [2M]
1451.4176 [2M-H]
1410.3156
1283.9342
1453.2927
830.5365
790
913.2657
957.9679
1046.0973
1206.6803
866.9883
1086.8243
1363.3632
Intensity
m/z


m/z: 339.4120
Intensity: 6.0E4
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377.5889 [M-2H+K]
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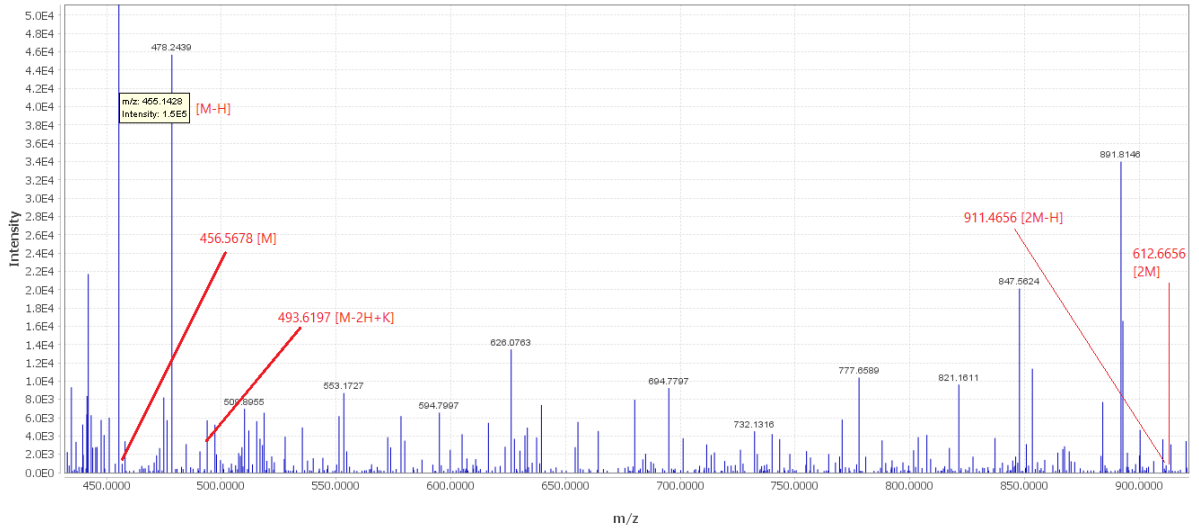
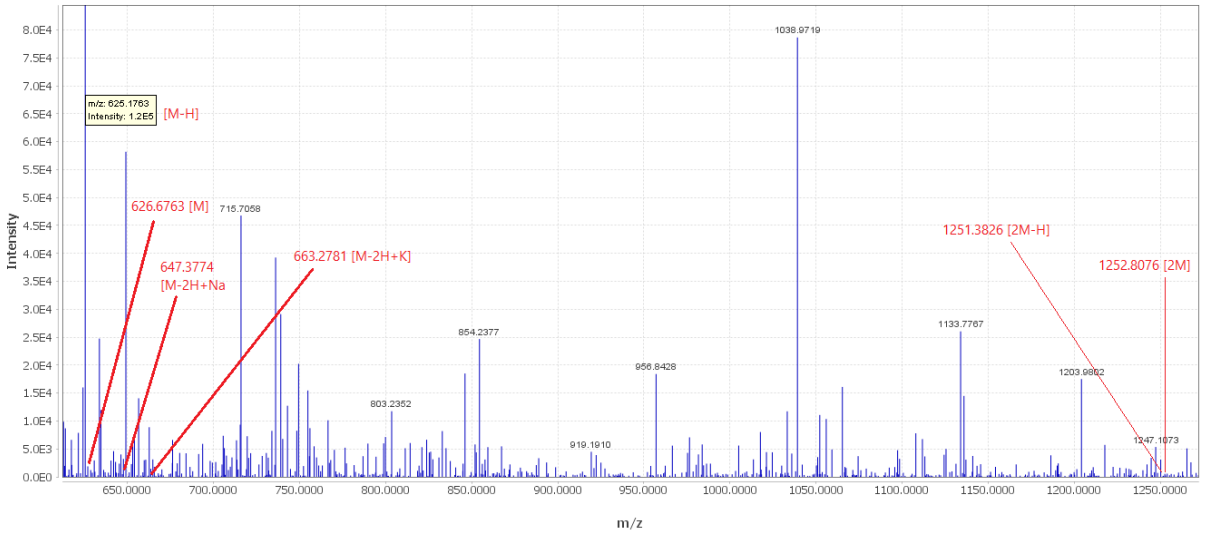
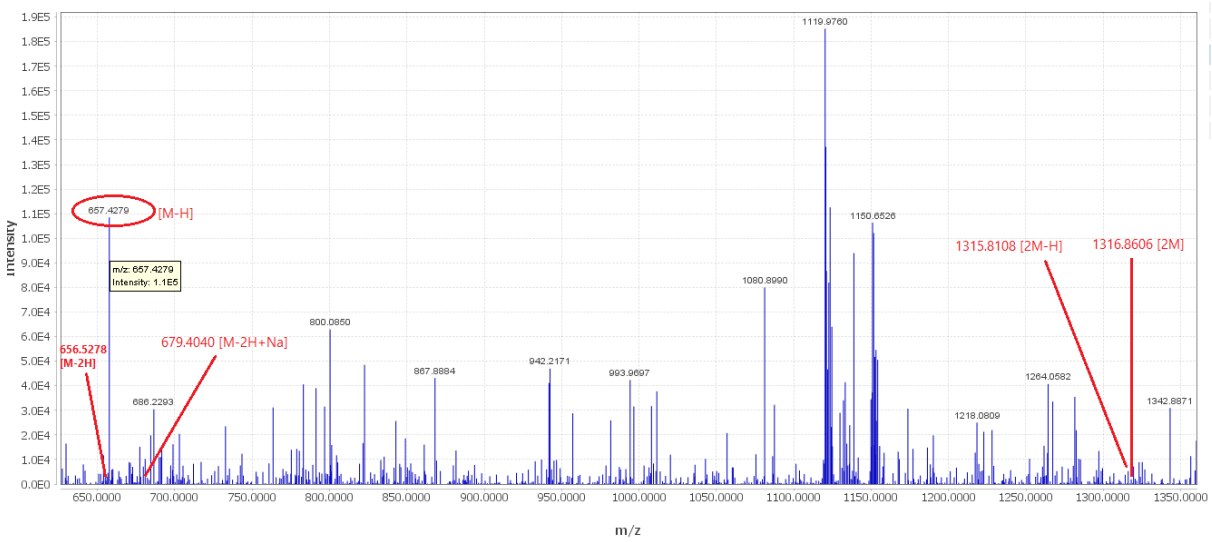
[M-2H]
340.3120 [M]
361.0880
[M-2H+Na]
680.7540 [2M]
410.5155
442.7672
477.2689
514.5457
532.7717
572.7487
601.0250
624.7263
689.9795
Intensity
m/z


m/z: 455.1428
Intensity: 1.5E5
[M-H]
478.2439
456.5678 [M]
493.6197 [M-2H+K]
911.4656 [2M-H]
612.6656
[2M]
503.8955
553.1727
594.7997
626.0763
694.7797
732.1316
777.6589
821.1611
847.5624
891.8146
Intensity
m/z


m/z: 625.1763
Intensity: 1.2E5
[M-H]
626.6763 [M]
647.3774
[M-2H+Na
663.2781 [M-2H+K]
1251.3826 [2M-H]
1252.8076 [2M]
715.7058
803.2352
854.2377
919.1910
956.8428
1038.9719
1133.7767
1203.9862
1247.1073
Intensity
m/z


Intensity
m/z
657.4279
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m/z: 657.4279
Intensity: 1.1E5
556.5278
[M-2H]
679.4040 [M-2H+Na]
1119.9760
1150.6526
1315.8108 [2M-H]
1316.6606 [2M]
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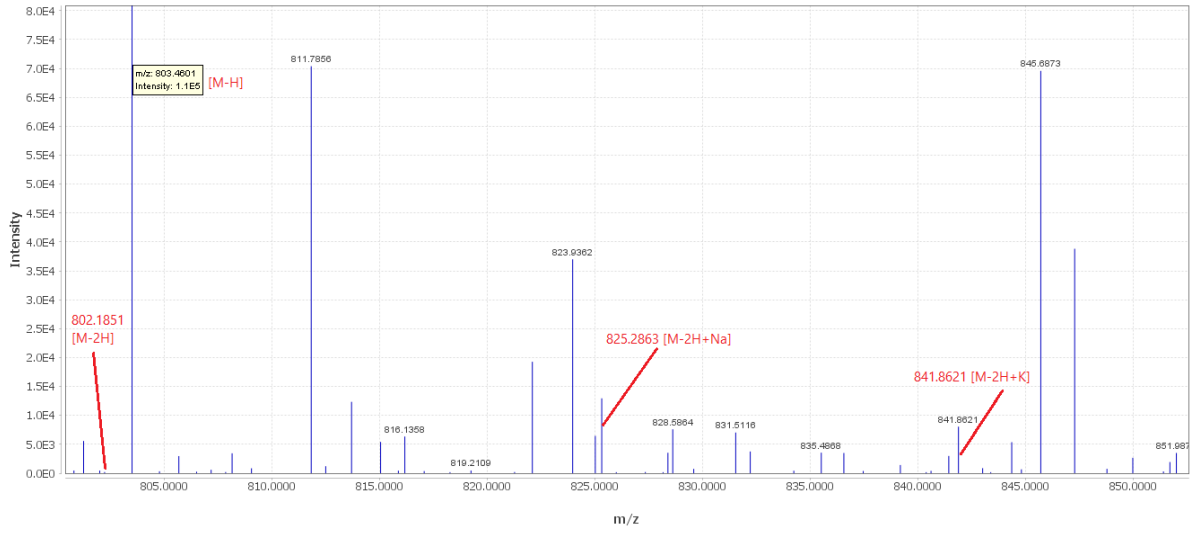
1218.0809
1342.8871


Intensity
m/z
m/z: 803.4601
Intensity: 1.1E5
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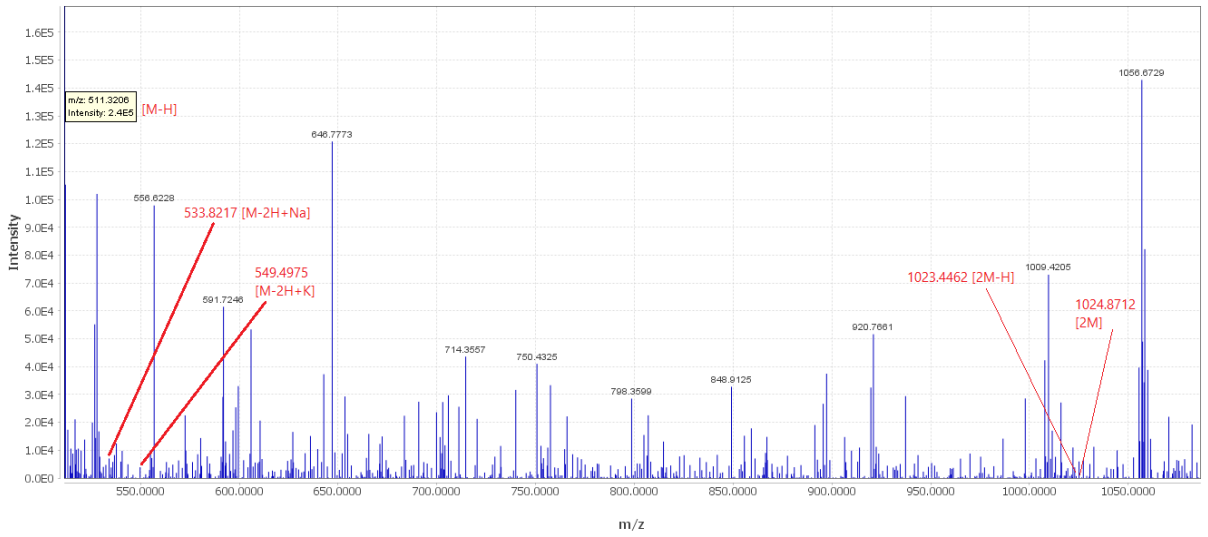
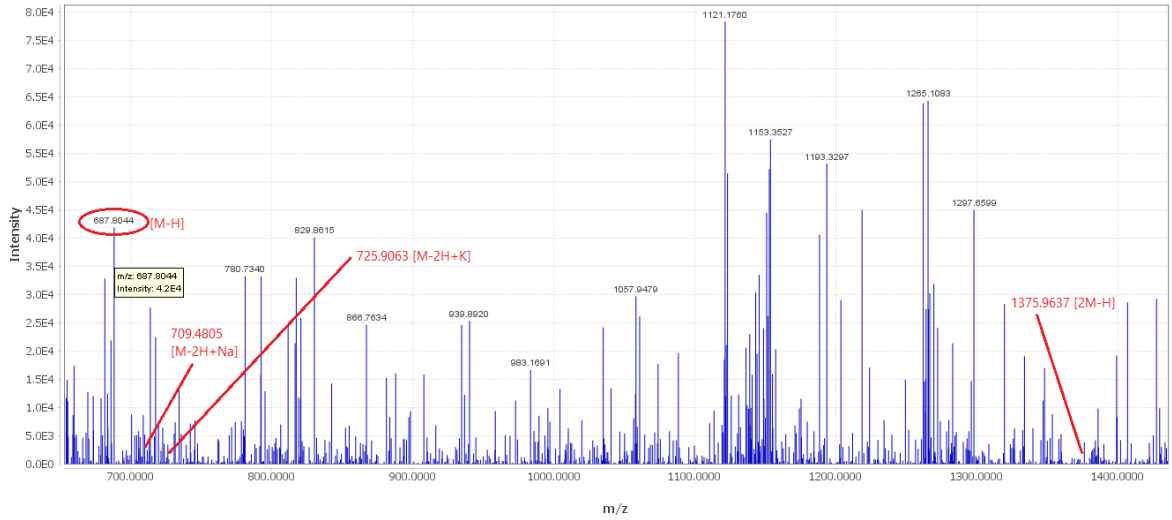
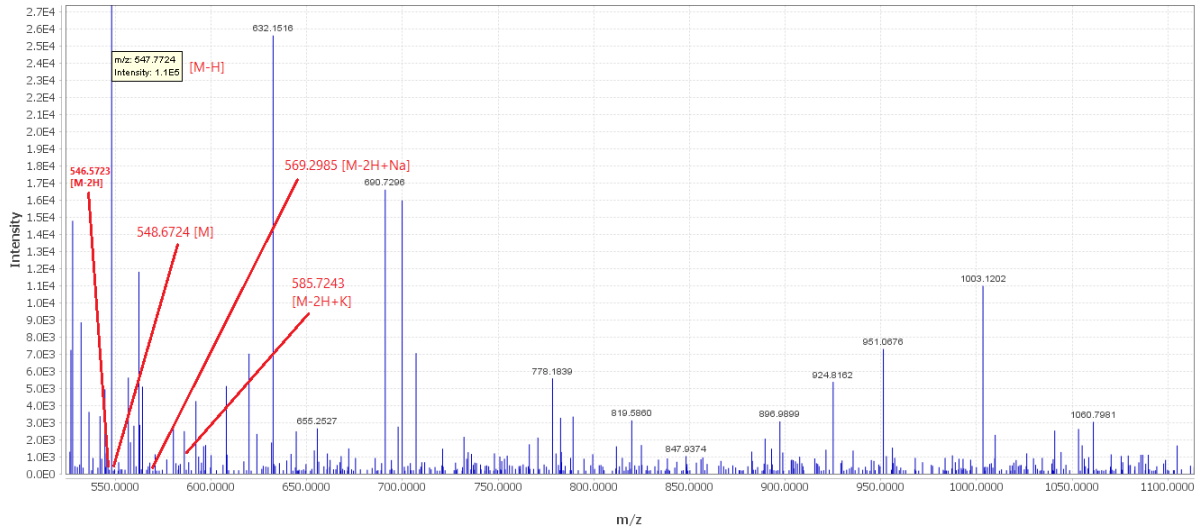
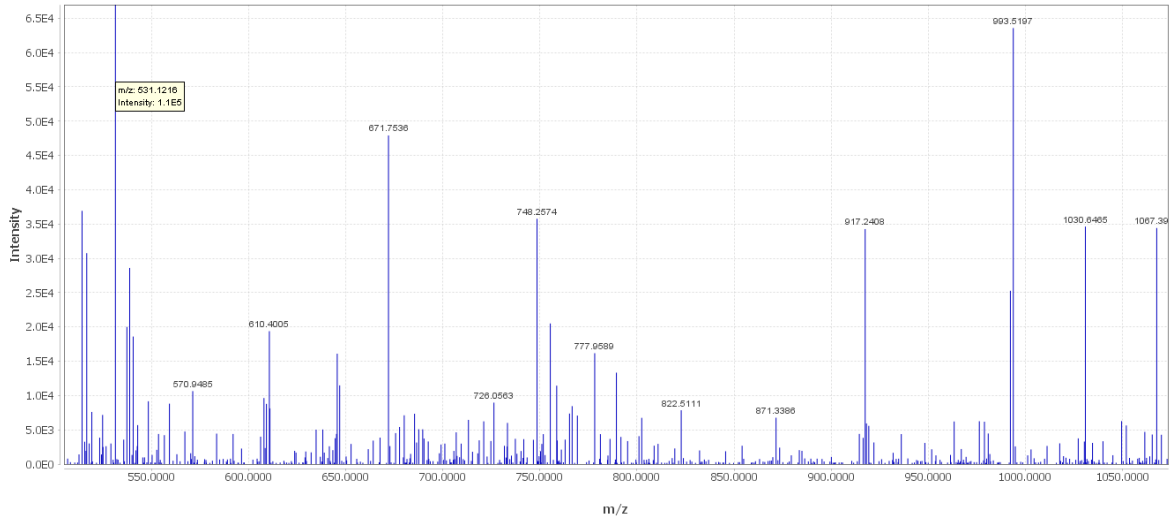
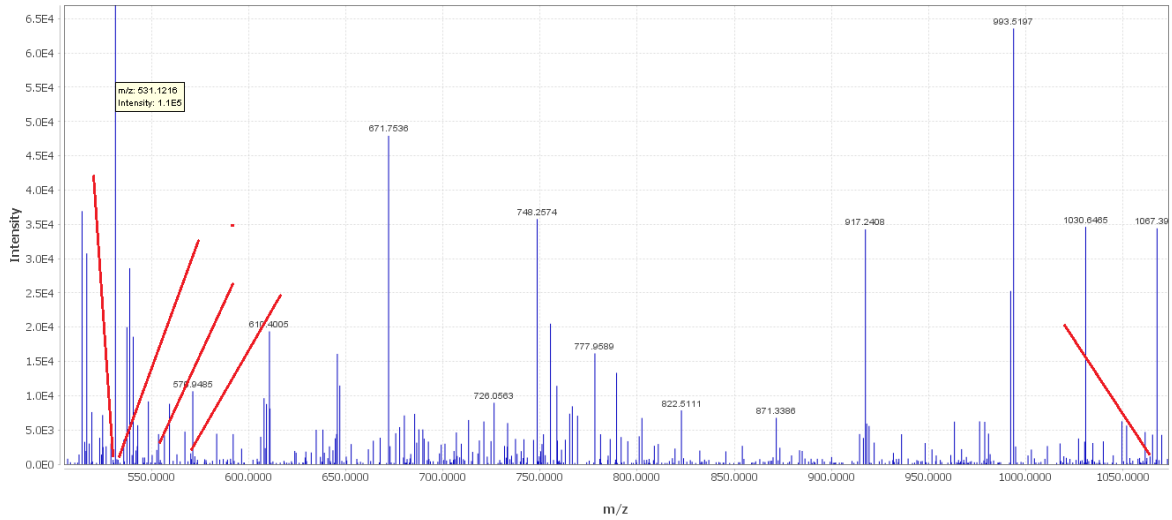
811.7856
845.6873
823.9362
802.1851
[M-2H]
825.2863 [M-2H+Na]
841.8621 [M-2H+K]
816.1358
828.5864
831.5116
841.8621
835.4868
819.2109

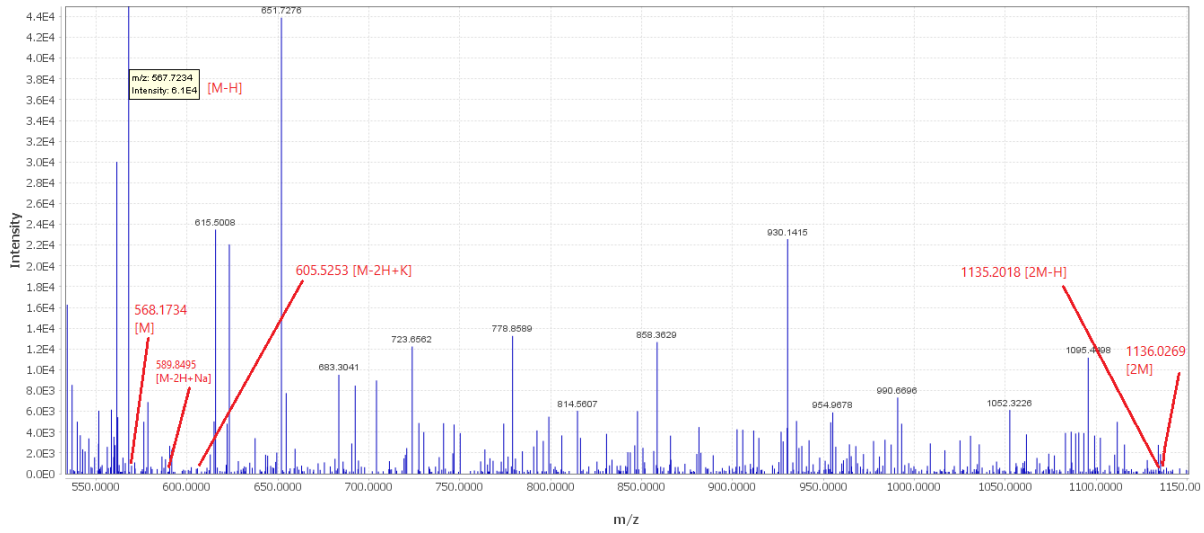

Intensity
m/z
m/z: 511.3206
Intensity: 2.4E5
[M-H]
646.7773
556.6228
533.8217 [M-2H+Na]
549.4975
[M-2H+K]
591.7246
1056.6729
1023.4462 [2M-H]
1009.4205
1024.8712
[2M]
920.7661
714.3557
750.4325
798.3599
848.9125

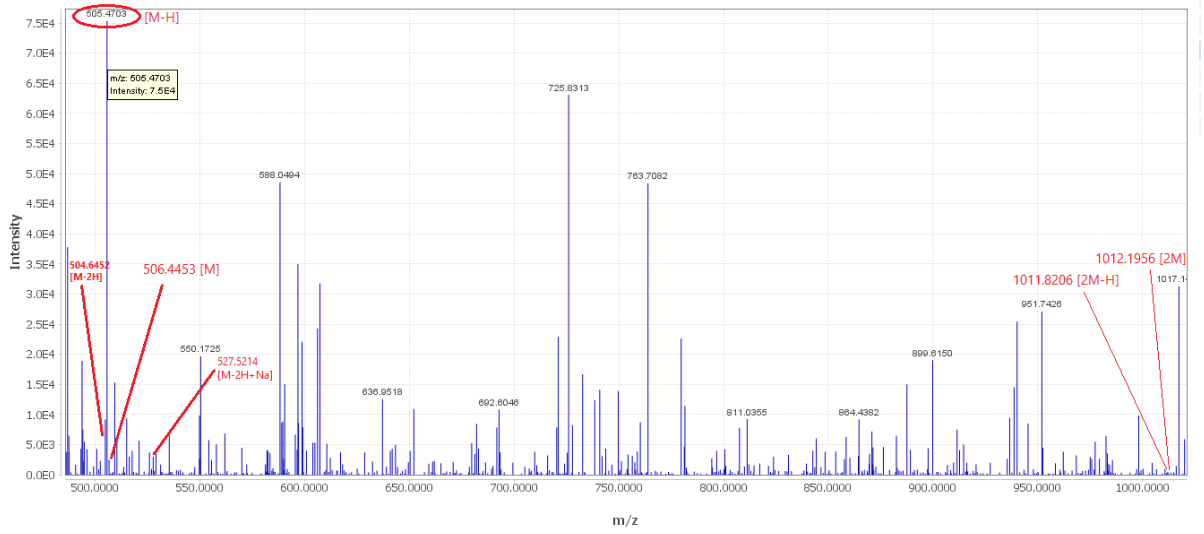

Intensity
m/z
687.8044
[M-H]
m/z: 687.8044
Intensity: 4.2E4
709.4805
[M-2H+Na]
725.9063 [M-2H+K]
1375.9637 [2M-H]
1121.1760
1265.1083
1153.3527
1193.3297
1297.6599
829.8615
780.7340
866.7634
939.8920
1057.9479
983.1691

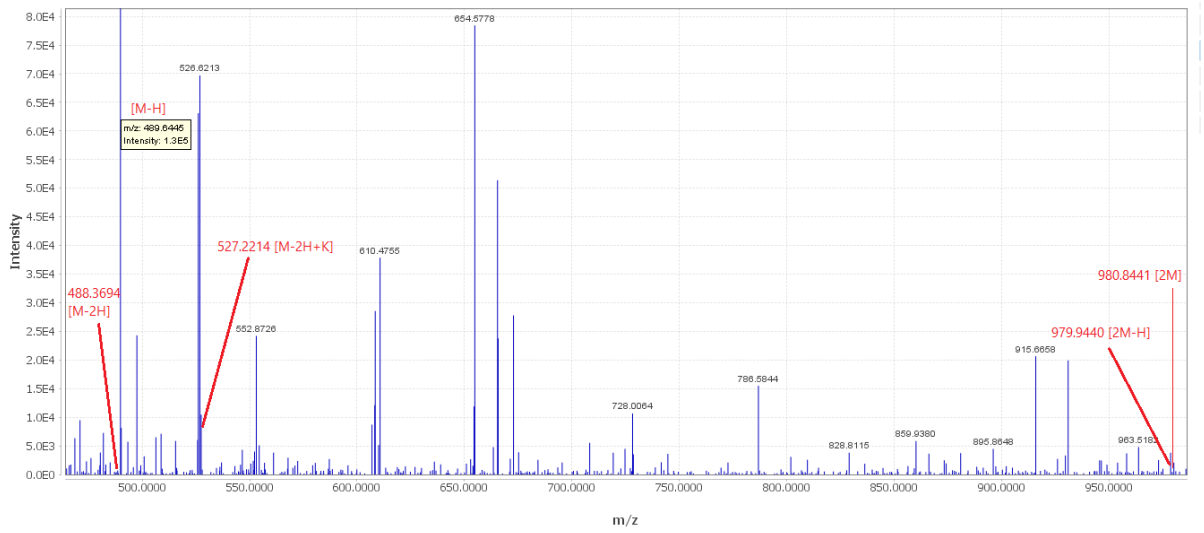

Intensity
m/z
m/z: 547.7724
Intensity: 1.1E5
[M-H]
546.5723
[M-2H]
548.6724 [M]
569.2985 [M-2H+Na]
585.7243
[M-2H+K]
632.1516
690.7296
778.1839
655.2527
819.5860
847.9374
896.9899
924.8162
951.0676
1003.1202
1060.7981

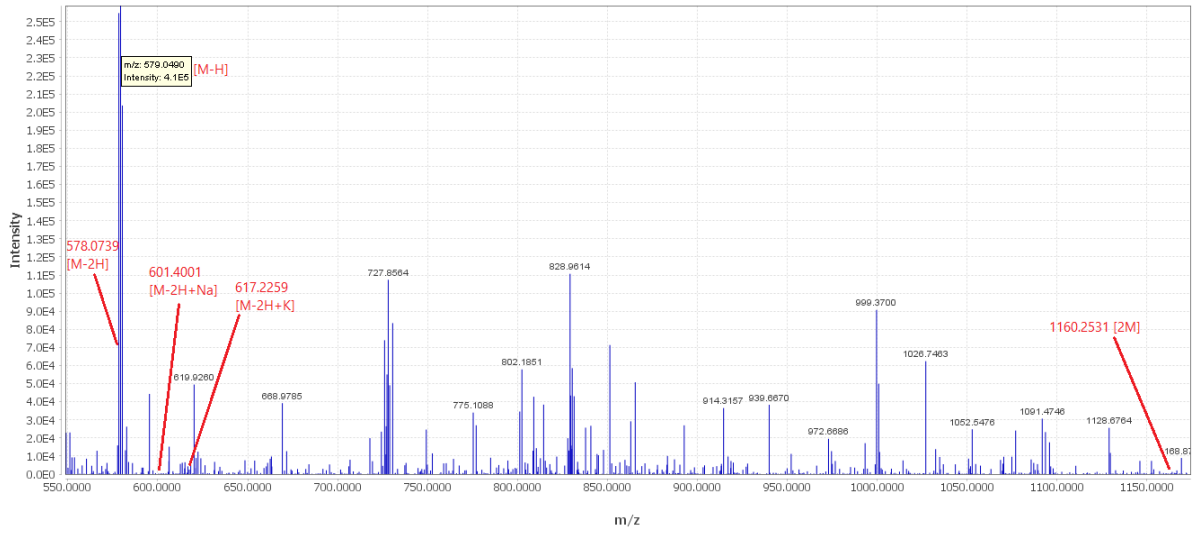

Intensity
m/z
m/z: 531.1216
Intensity: 1.1E5
671.7536
748.2574
917.2408
993.5197
1030.6465
1067.39
610.4005
777.9589
570.9485
726.0563
822.5111
871.3386

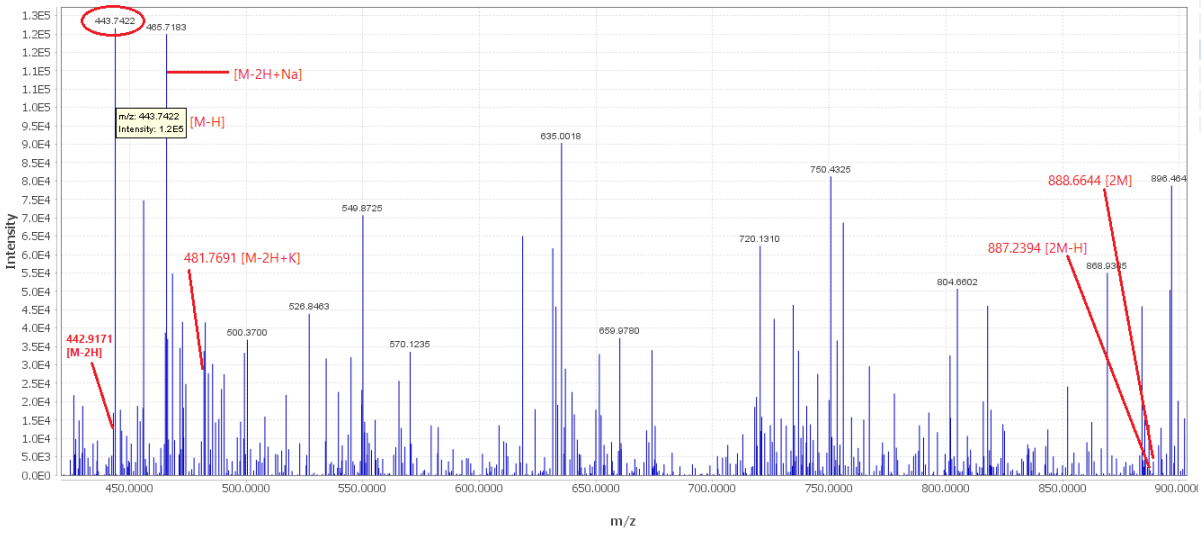

m/z: 531.1216
Intensity: 1.1E5
671.7536
993.5197
748.2574
917.2408
1030.6465
777.9589
726.0563
822.5111
871.3386
Intensity
m/z

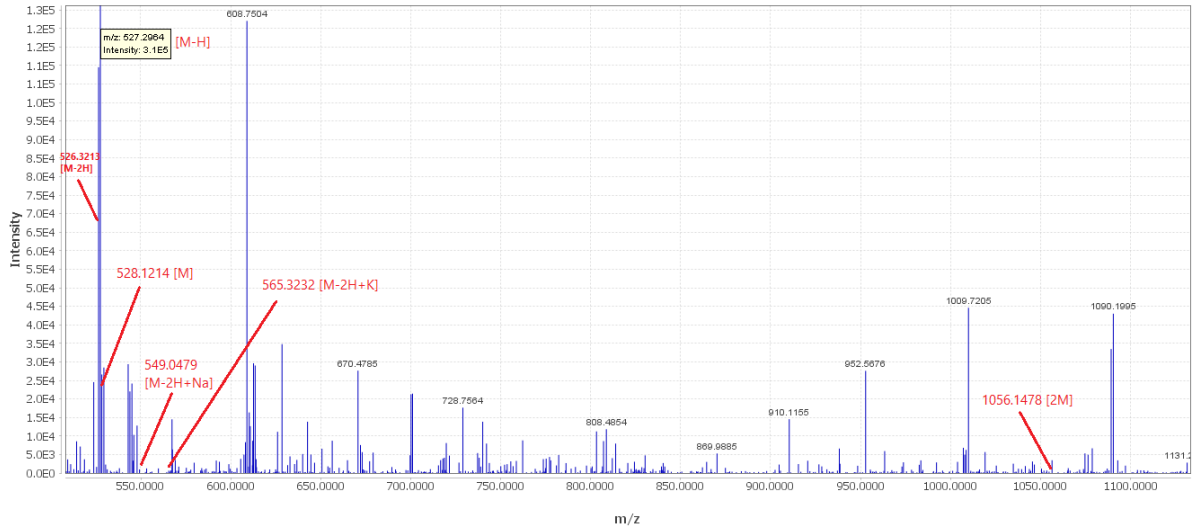

m/z: 567.7234
Intensity: 6.1E4
[M-H]
651.7276
615.5008
930.1415
605.5253 [M-2H+K]
1135.2018 [2M-H]
568.1734
[M]
589.8495
[M-2H+Na]
723.6562
778.8589
858.3629
683.3041
1136.0269
[2M]
814.5607
954.9678
990.6696
1052.3226
Intensity
m/z

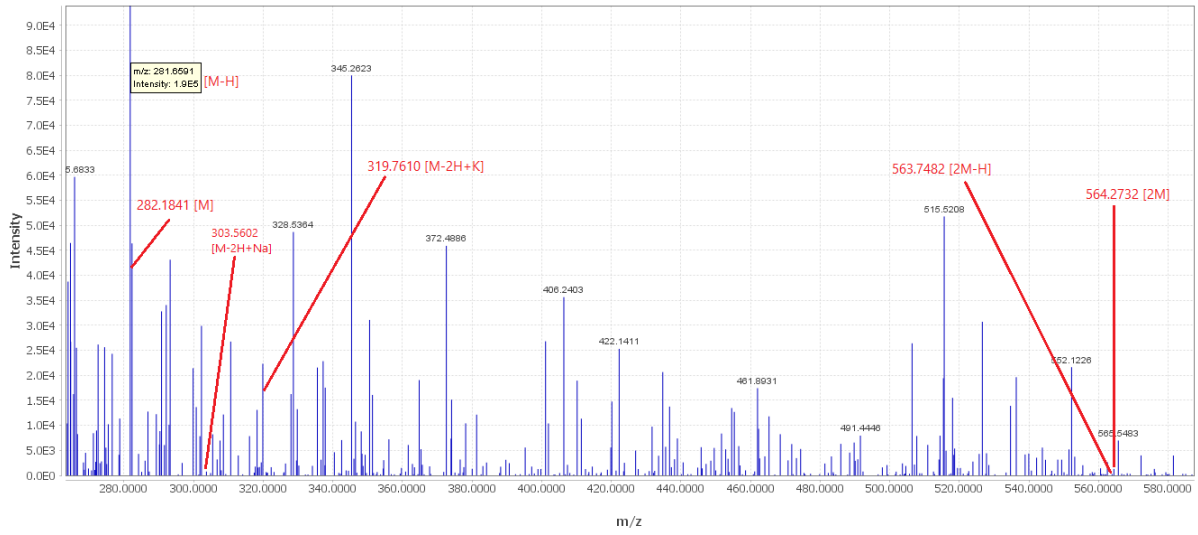

505.4703
[M-H]
m/z: 505.4703
Intensity: 7.5E4
725.8313
588.0494
763.7082
504.6452
[M-2H]
506.4453 [M]
1012.1956 [2M]
1011.8206 [2M-H]
951.7426
550.1725
527.5214
[M-2H+Na]
899.8150
636.9518
692.6046
811.0355
864.4382
Intensity
m/z

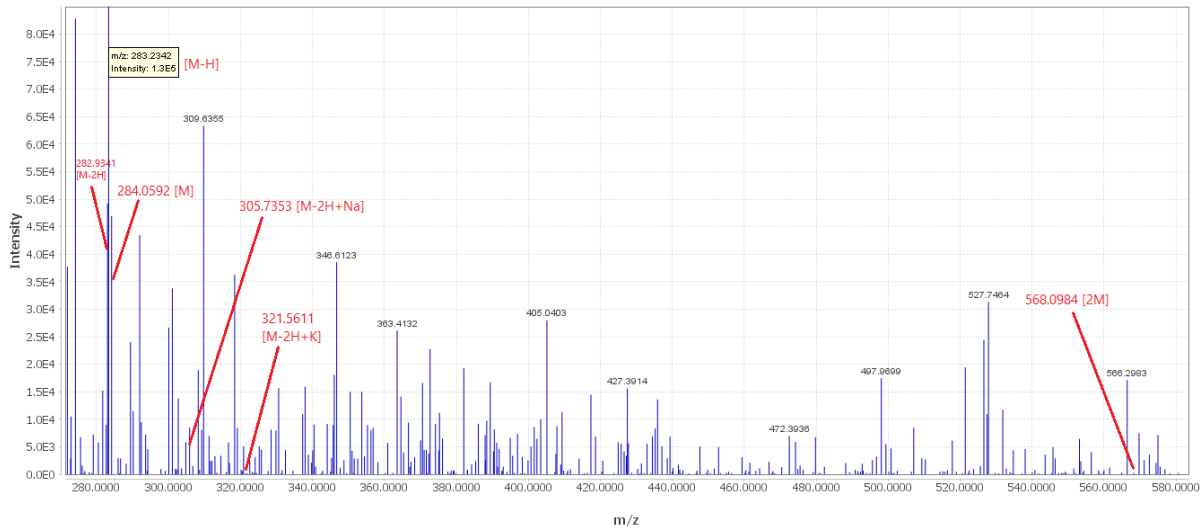

Intensity
m/z
[M-H]
m/z: 489.6445
Intensity: 1.3E5
527.2214 [M-2H+K]
488.3694
[M-2H]
980.8441 [2M]
979.9440 [2M-H]
654.5778
526.6213
610.4755
552.8726
915.6658
786.5844
728.0064
828.8116
859.9380
895.8648
963.5183

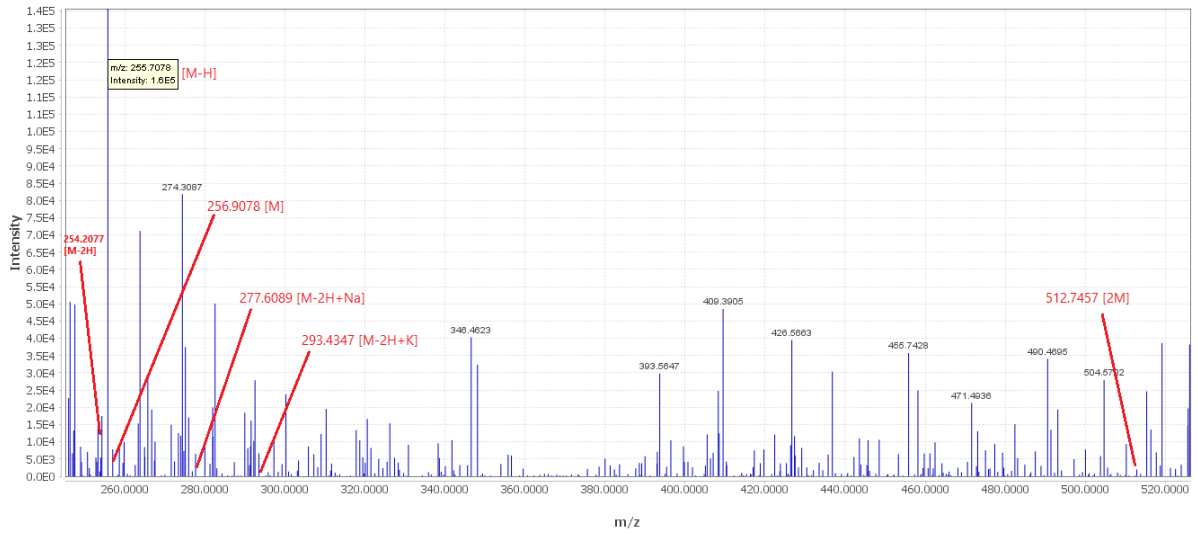

Intensity
m/z
m/z: 579.0490
Intensity: 4.1E5
[M-H]
578.0739
[M-2H]
601.4001
[M-2H+Na]
617.2259
[M-2H+K]
1160.2531 [2M]
727.8564
828.9614
999.3700
802.1851
1026.7463
619.9260
668.9785
775.1088
914.3157
939.6670
1052.5476
1091.4746
1128.6764
972.6686

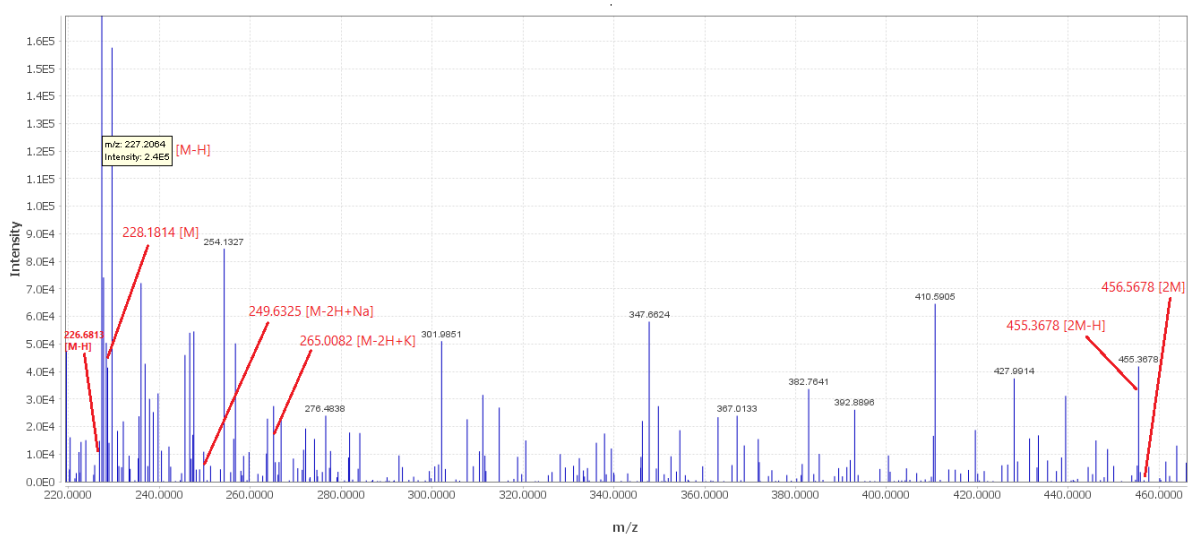

Intensity
m/z
443.7422
465.7183
[M-2H+Na]
m/z: 443.7422
Intensity: 1.2E5
[M-H]
481.7691 [M-2H+K]
442.9171
[M-2H]
888.6644 [2M]
887.2394 [2M-H]
635.0018
750.4325
549.8725
720.1310
804.6602
526.8463
500.3700
570.1235
659.9780

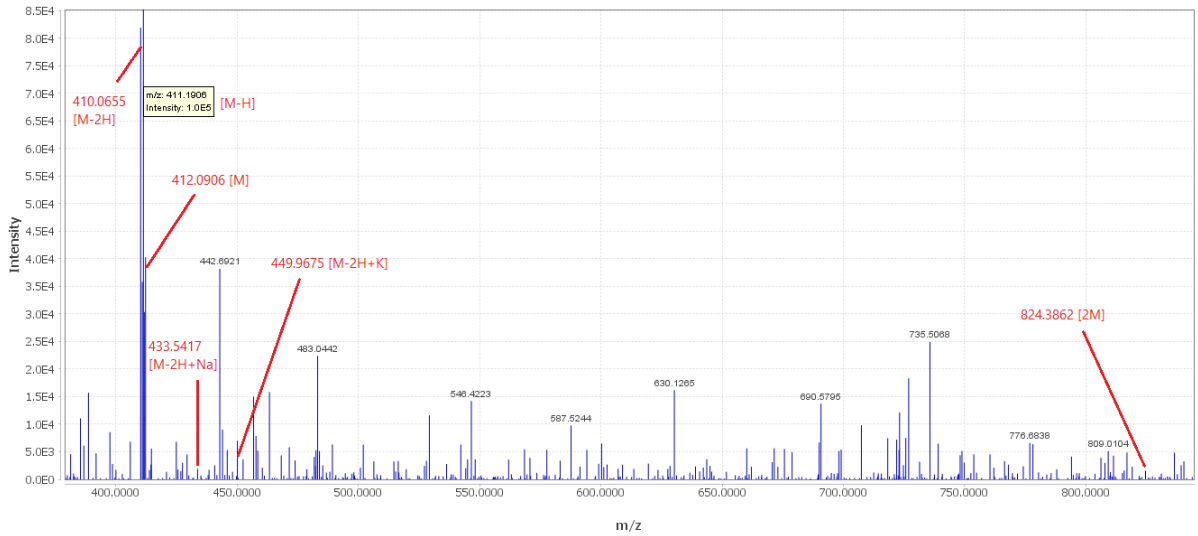

m/z: 527.2964
Intensity: 3.1E5
[M-H]
608.7504
526.3213
[M-2H]
528.1214 [M]
565.3232 [M-2H+K]
549.0479
[M-2H+Na]
670.4785
728.7564
808.4854
869.9885
910.1155
952.5676
1009.7205
1090.1995
1056.1478 [2M]
Intensity
m/z

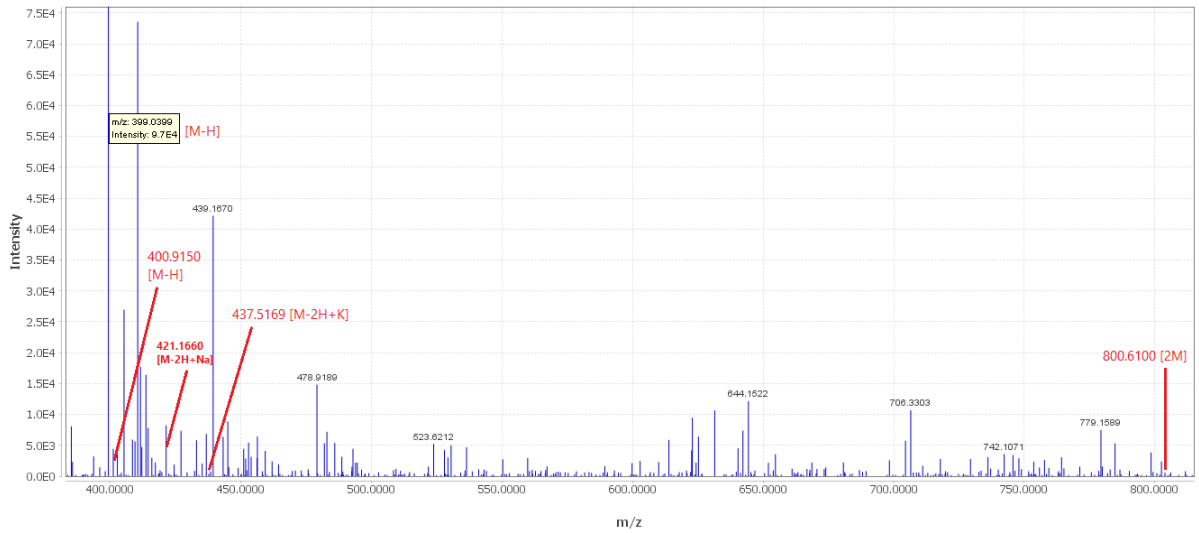

m/z: 281.6591
Intensity: 1.9E5
[M-H]
345.2623
282.1841 [M]
303.5602
[M-2H+Na]
319.7610 [M-2H+K]
328.5364
372.4886
406.2403
422.1411
461.8931
491.4446
515.5208
552.1226
563.7482 [2M-H]
564.2732 [2M]
565.5483
Intensity
m/z

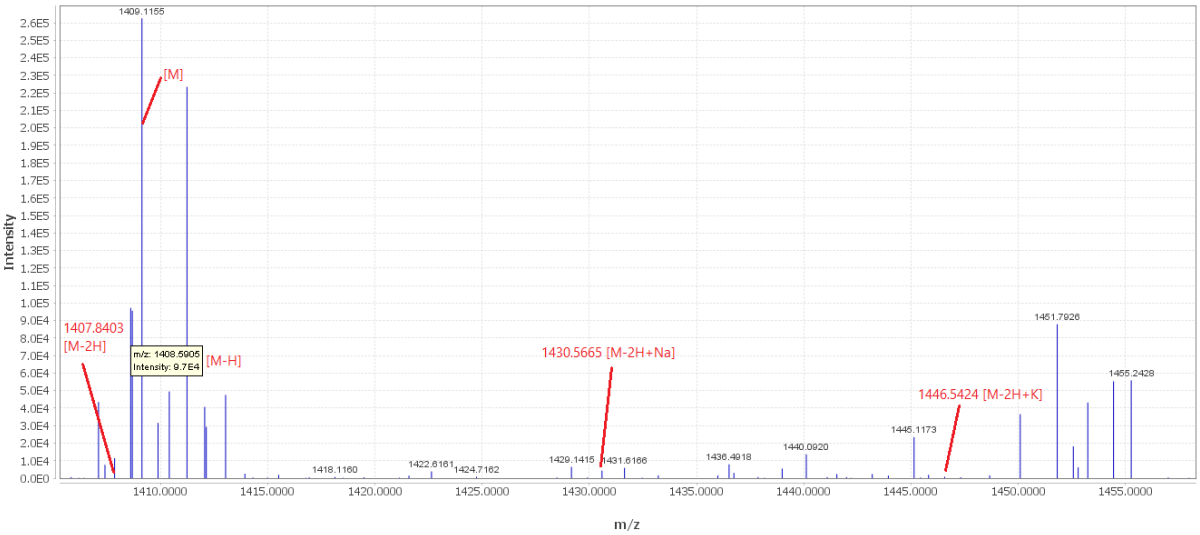

m/z: 283.2342
Intensity: 1.3E5
[M-H]
309.6355
282.9341
[M-2H]
284.0592 [M]
305.7353 [M-2H+Na]
346.6123
321.5611
[M-2H+K]
363.4132
405.0403
427.3914
472.3936
497.9699
527.7464
568.0984 [2M]
568.2983
Intensity
m/z

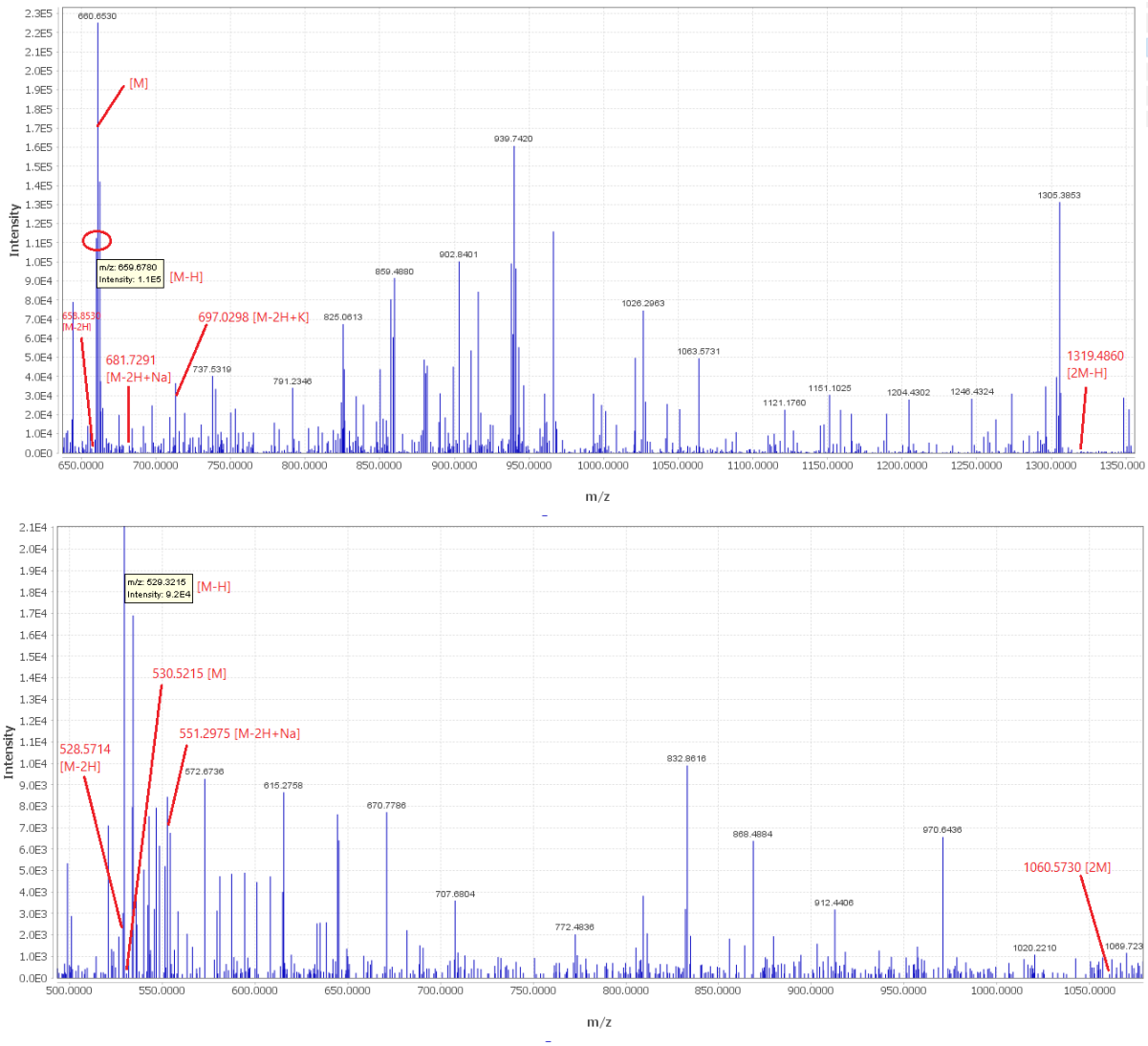

m/z: 255.7078
Intensity: 1.6E5
[M-H]
274.3087
256.9078 [M]
254.2077
[M-2H]
277.6089 [M-2H+Na]
293.4347 [M-2H+K]
346.4623
409.3905
426.5663
455.7428
393.5647
490.4695
504.5792
471.4936
512.7457 [2M]
Intensity
m/z


m/z: 227.2064
Intensity: 2.4E5
[M-H]
228.1814 [M]
254.1327
249.6325 [M-2H+Na]
265.0082 [M-2H+K]
226.6813
[M-H]
301.9851
347.6624
410.5905
456.5678 [2M]
455.3678 [2M-H]
455.3678
427.9914
382.7641
392.8896
367.0133
276.4838
Intensity
m/z


410.0655
[M-2H]
m/z: 411.1906
Intensity: 1.0E5
[M-H]
412.0906 [M]
442.6921
449.9675 [M-2H+K]
433.5417
[M-2H+Na]
483.0442
546.4223
630.1265
587.5244
690.5795
735.5088
824.3862 [2M]
776.6838
809.0104
Intensity
m/z

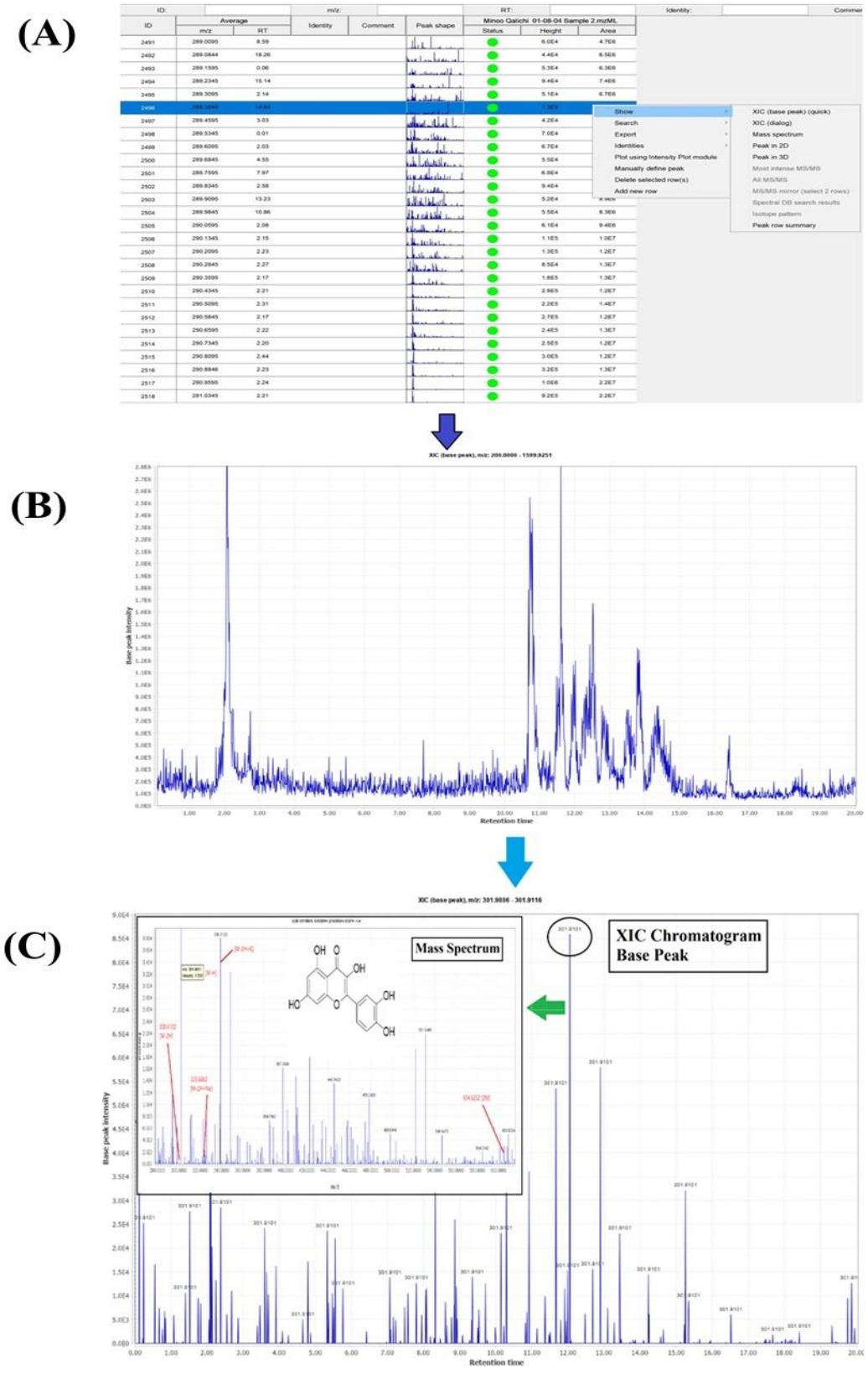

m/z: 399.0399
Intensity: 9.7E4
[M-H]
439.1670
400.9150
[M-H]
437.5169 [M-2H+K]
421.1660
[M-2H+Na]
478.9189
523.6212
644.1522
706.3303
742.1071
779.1589
800.6100 [2M]
Intensity
m/z


1409.1155
[M]
1407.8403
[M-2H]
m/z: 1408.5905
Intensity: 9.7E4
[M-H]
1418.1160
1422.6161
1424.7162
1429.1415
1430.5665 [M-2H+Na]
1431.6166
1436.4918
1440.0920
1445.1173
1446.5424 [M-2H+K]
1451.7926
1455.2428
Intensity
m/z



شکل S1- طیف جرمی و اداکت‌های جرمی در ترکیبات شناسایی شده عصاره متانولی ریشه سیلن هرز

Figure S1- Mass spectrum and mass adducts of identified compounds in methanolic extract of *Silene conoidea* root



شکل S2- (A) برنامه (لیست پیک‌ها) در نرم افزار MZmine؛ (B) کروماتوگرام یونی (TIC)؛ (C) کروماتوگرام یونی استخراج شده (XIC) کوئرستین و اداکت‌های یونی مربوطه، -[M-H] در M/Z: ۳۰۱/۹۱

Figure S2- (A) MZmine analysis software program (Peal List); (B) The total ion chromatograms (TIC); (C) Extracted ion chromatogram (XIC) of quercetin and corresponding mass adducts, [M-H]-, at m/z 301.91.