

Supplementary data of

**Anti-proliferative activity, multi-kinase inhibition,
apoptosis- inducing effects and molecular docking of
novel isatin-purine hybrids**

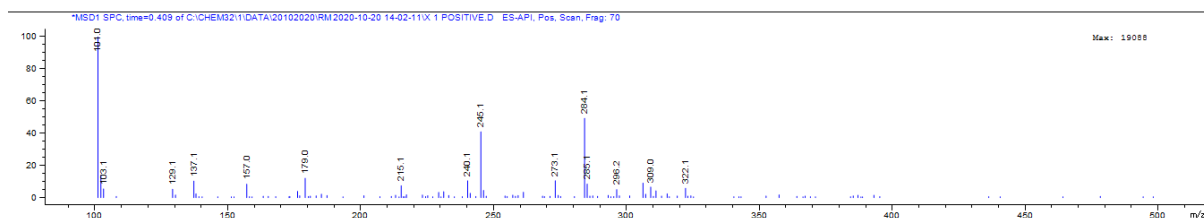
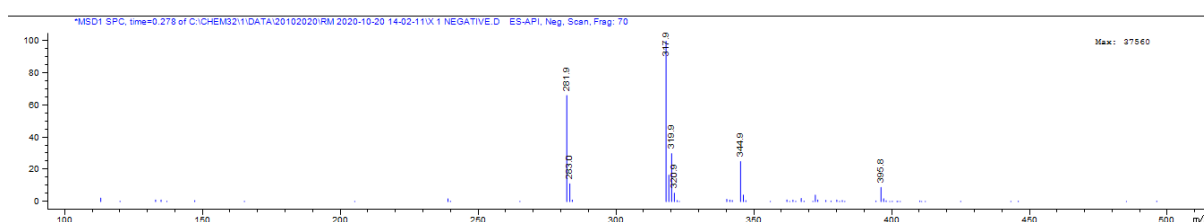
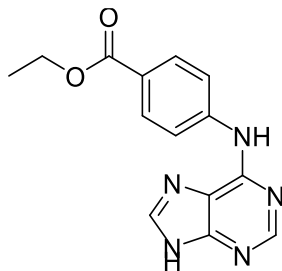
Ashwag S. Alanazi^{1*}, Tebyan O. Mirgany², Aisha A. Alsfouk¹, Nawaf A. Alsaif² and
Mohammed M. Alanazi^{2*}

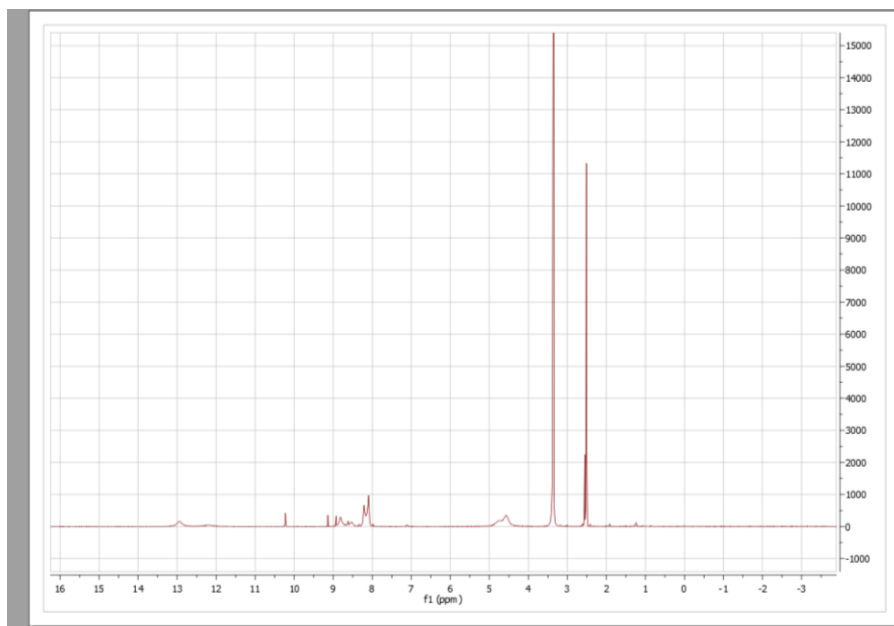
¹ Department of Pharmaceutical Sciences, College of Pharmacy, Princess Nourah Bint
Abdulahman University, Riyadh 84428, Saudi Arabia

² Department of Pharmaceutical Chemistry, College of Pharmacy, King Saud University,
P.O. Box 2457, Riyadh 11451, Saudi Arabia

Compound 2:

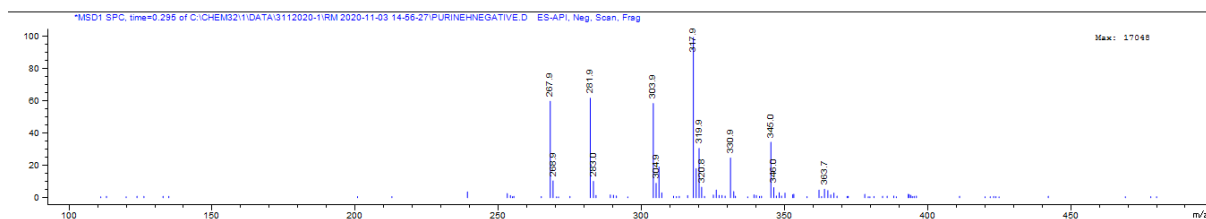
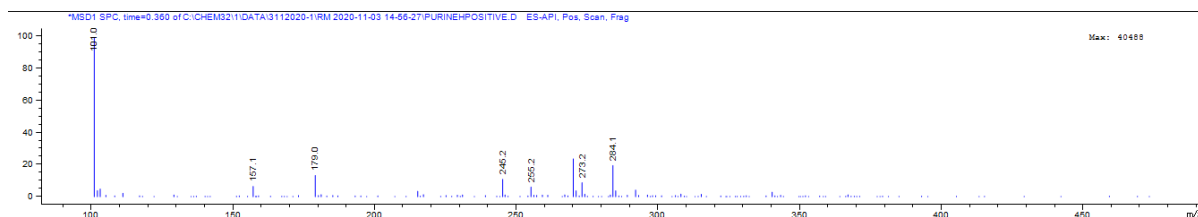
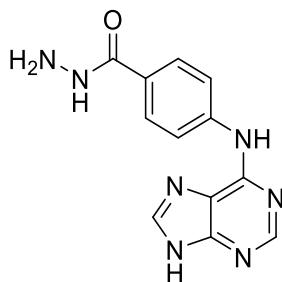
ethyl 4-((9H-purin-6-yl)amino)benzoate (2)

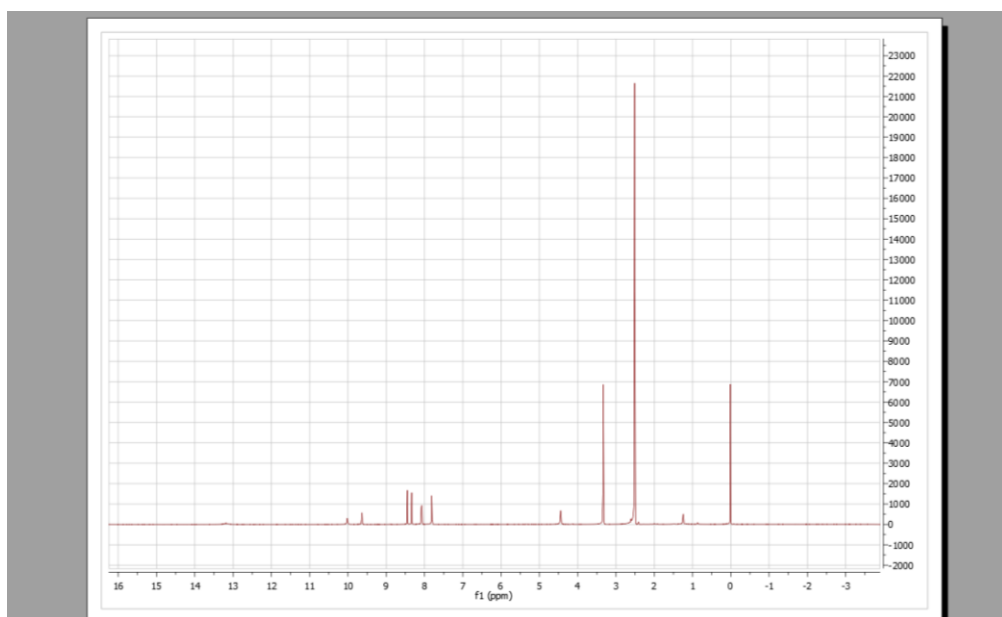




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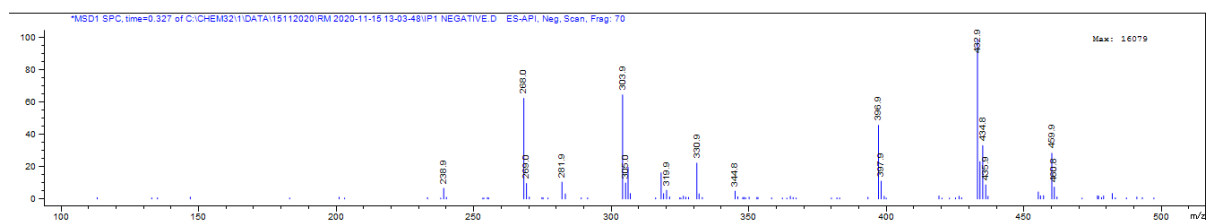
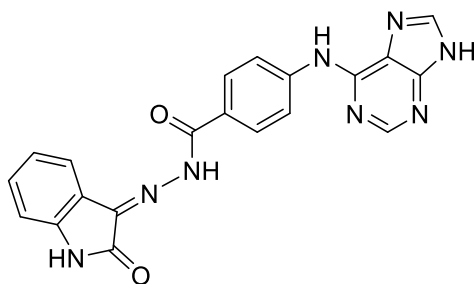
4-((9H-purin-6-yl)amino)benzohydrazide (3)

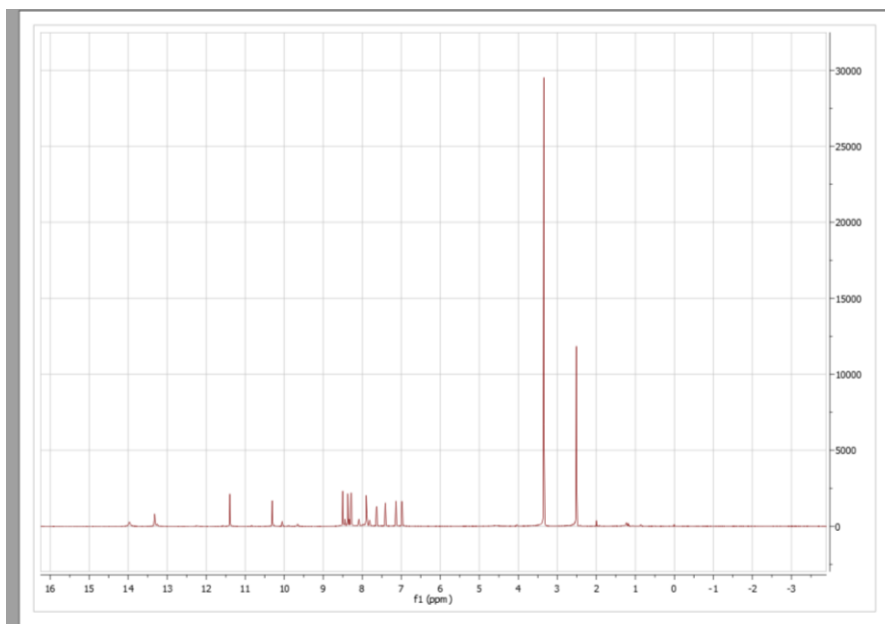




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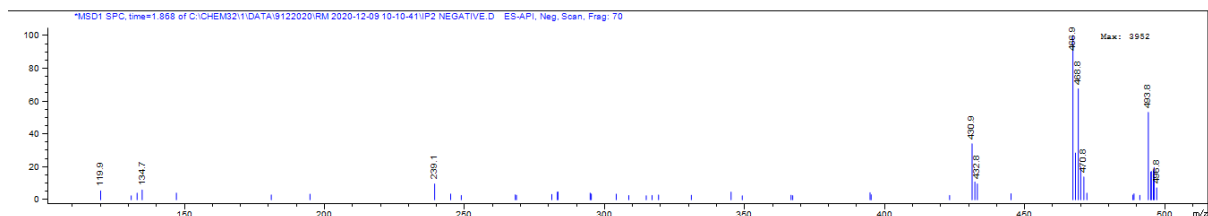
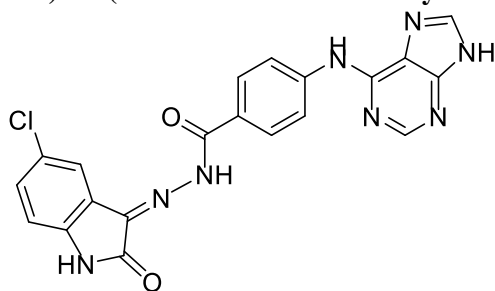
4-((9H-purin-6-yl)amino)-N'-(2-oxoindolin-3-ylidene)benzohydrazide (4)

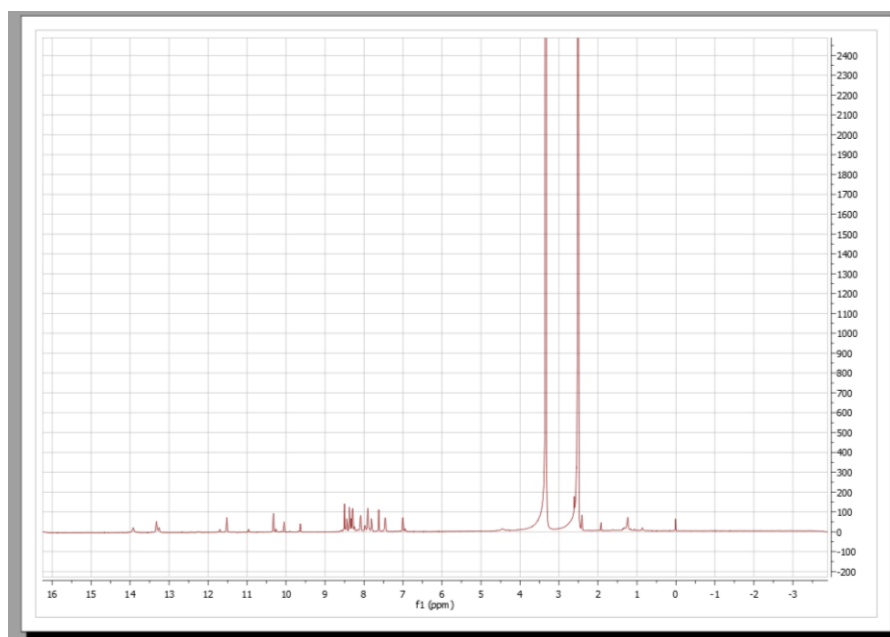




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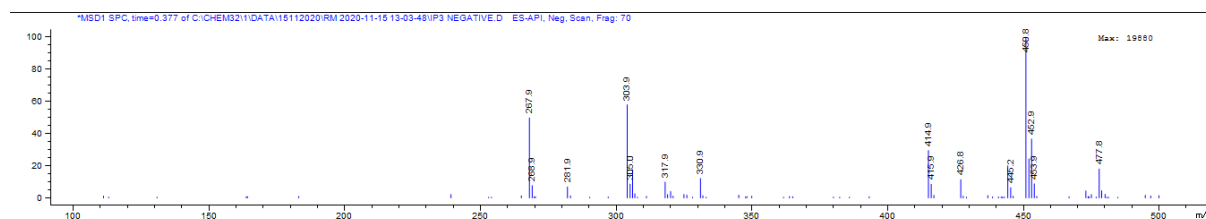
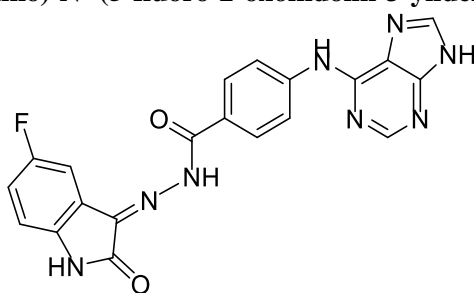
4-((9H-purin-6-yl)amino)-N'-(5-chloro-2-oxoindolin-3-ylidene)benzohydrazide (5)

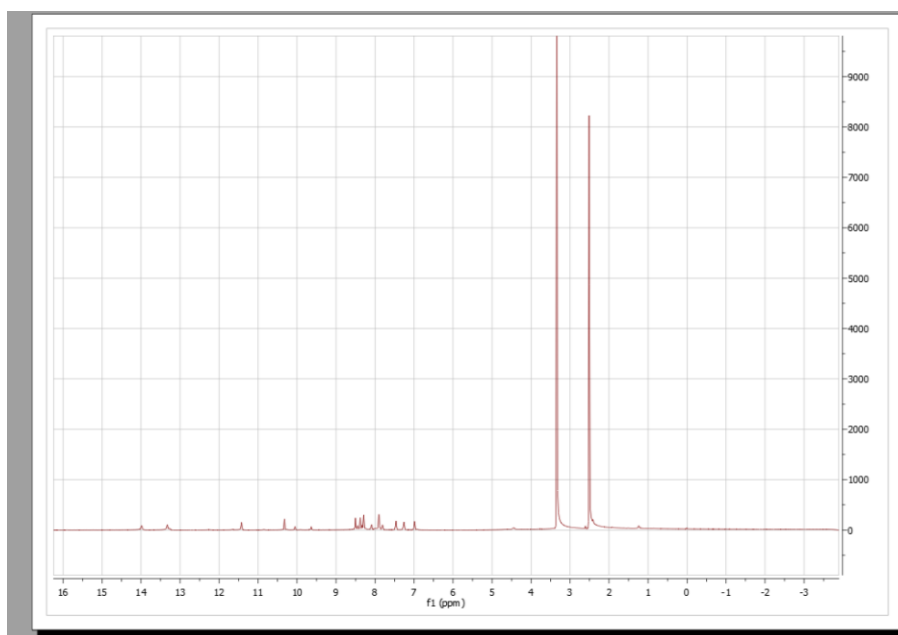




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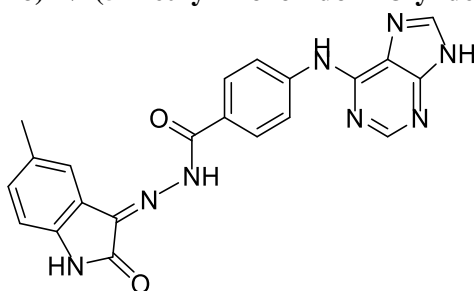
4-((9H-purin-6-yl)amino)-N'-(5-fluoro-2-oxoindolin-3-ylidene)benzohydrazide (6)

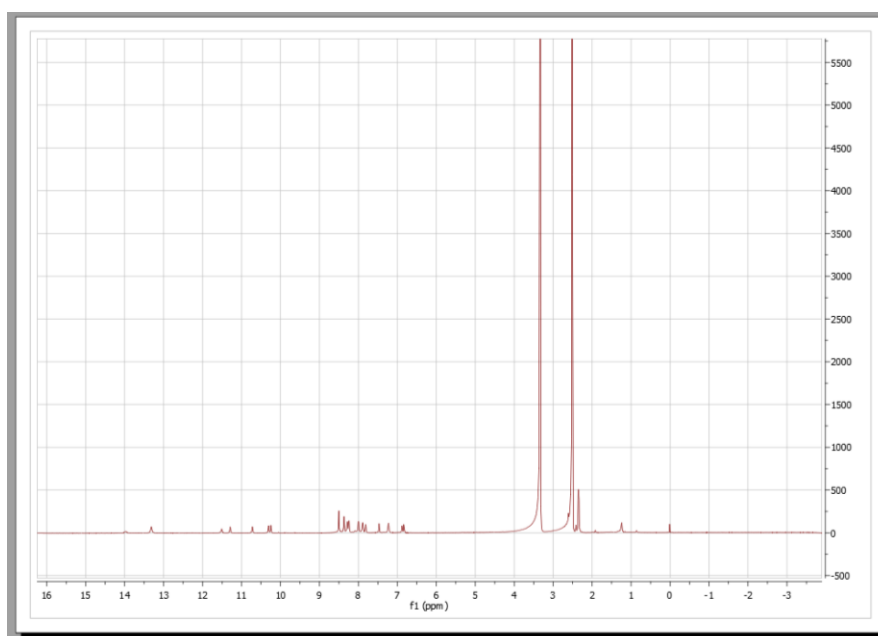
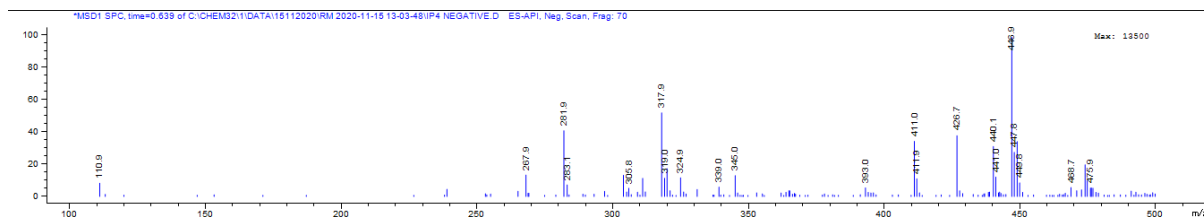




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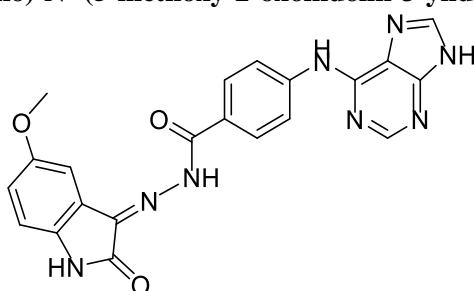
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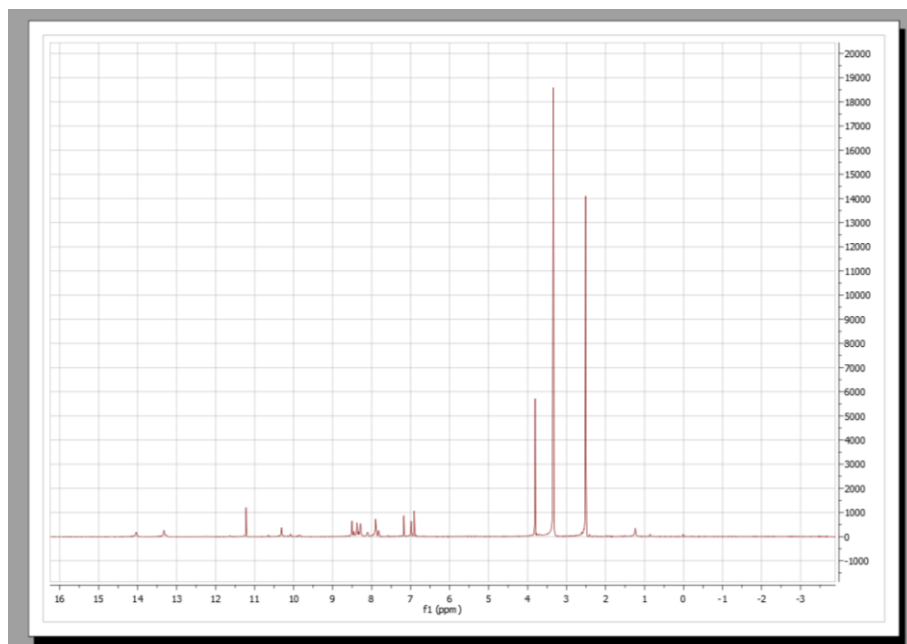
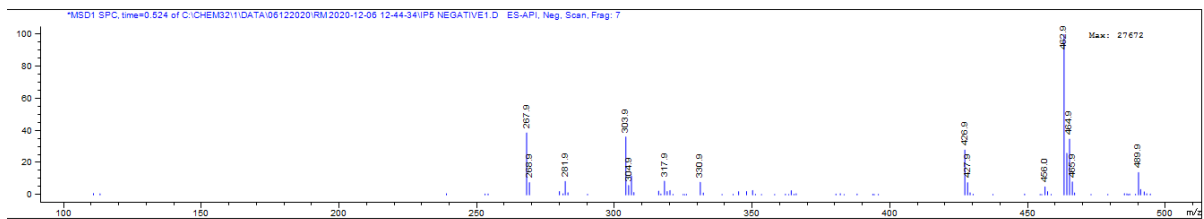




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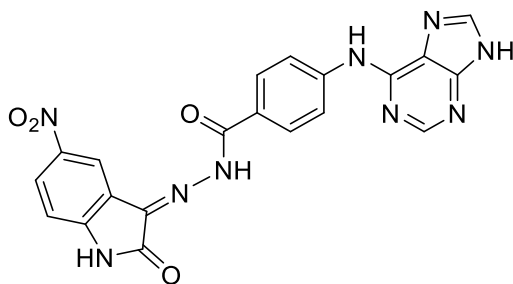
4-((9H-purin-6-yl)amino)-N'-(5-methoxy-2-oxoindolin-3-ylidene)benzohydrazide (8)

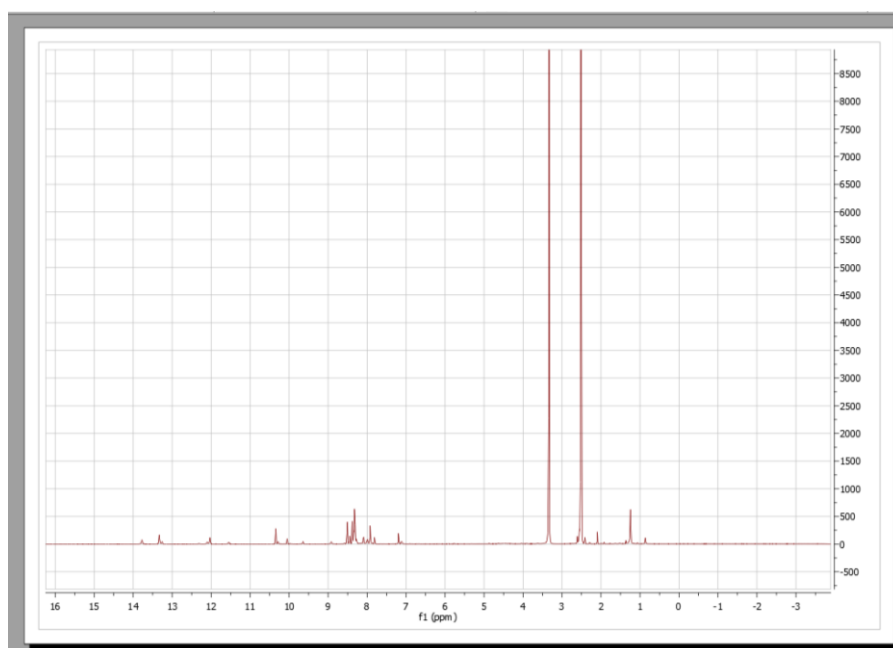
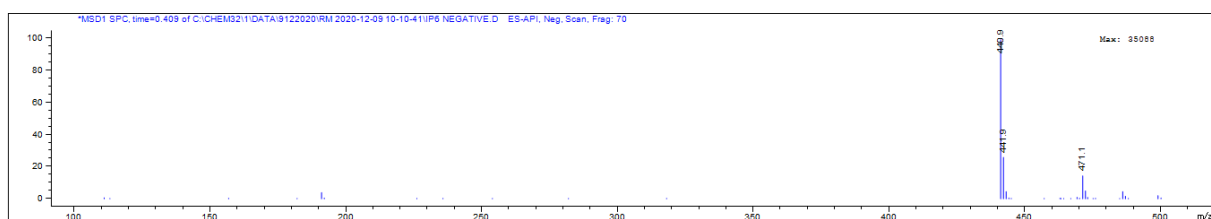




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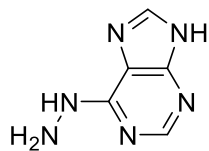
4-((9H-purin-6-yl)amino)-N'-(5-nitro-2-oxindolin-3-ylidene)benzohydrazide (9)

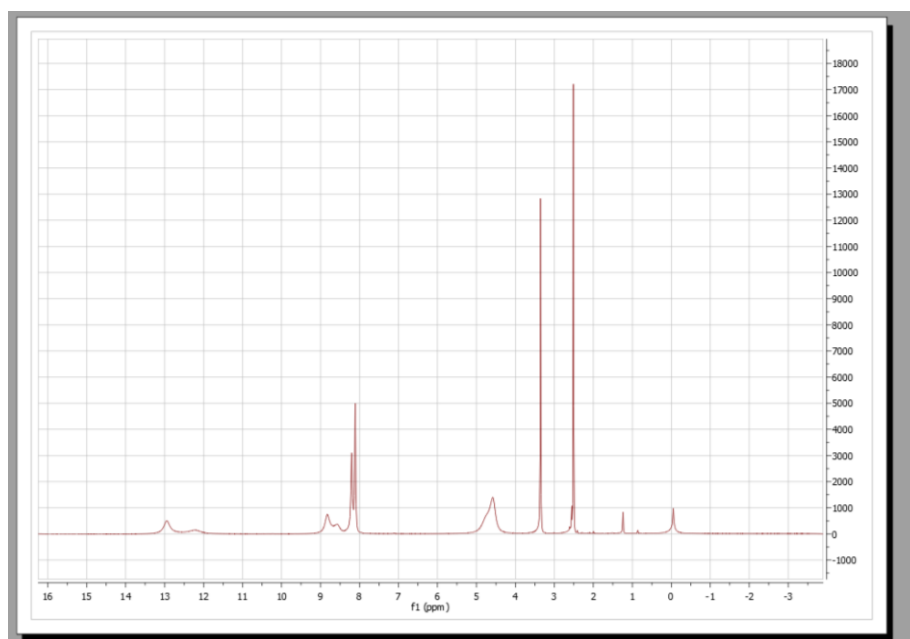
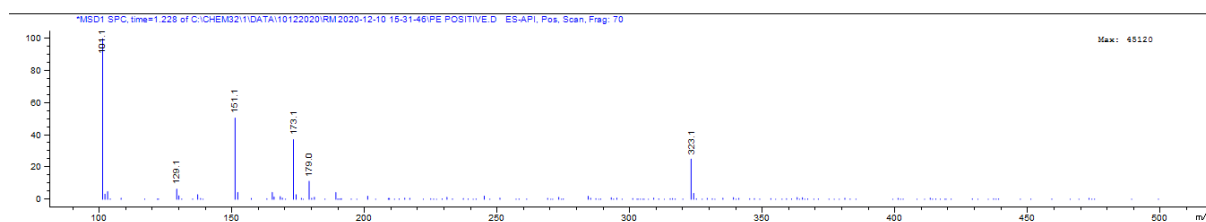
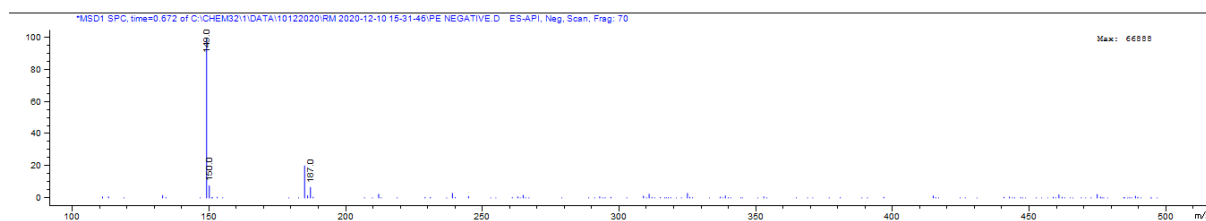




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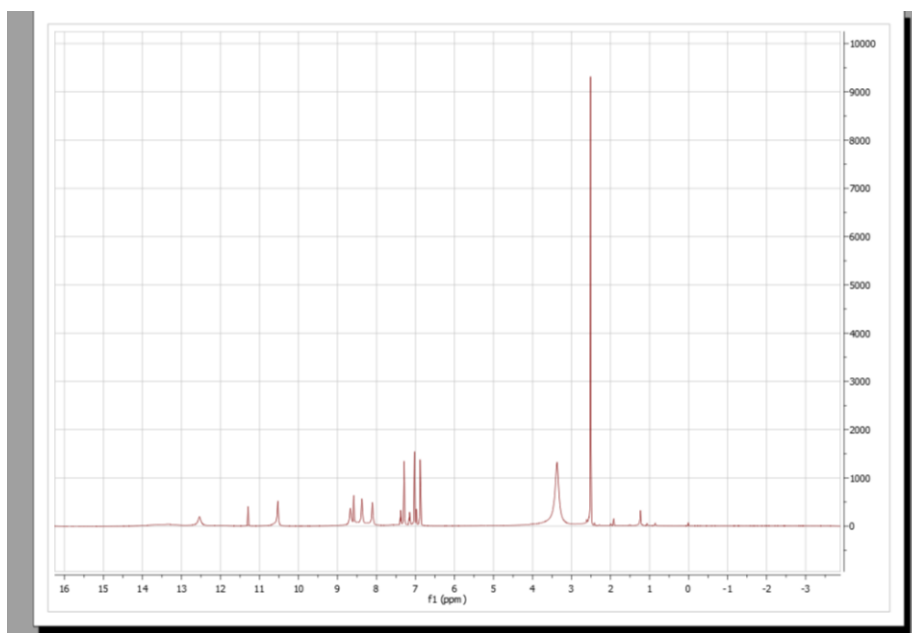
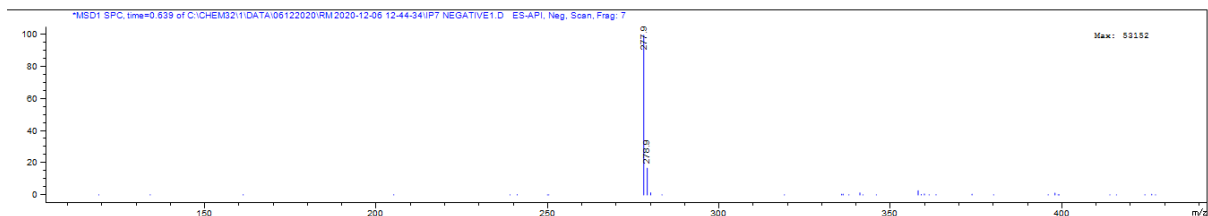
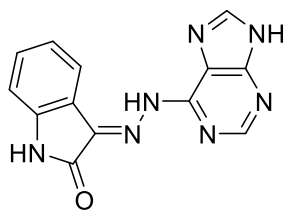
6-hydrazineyl-9H-purine (10)





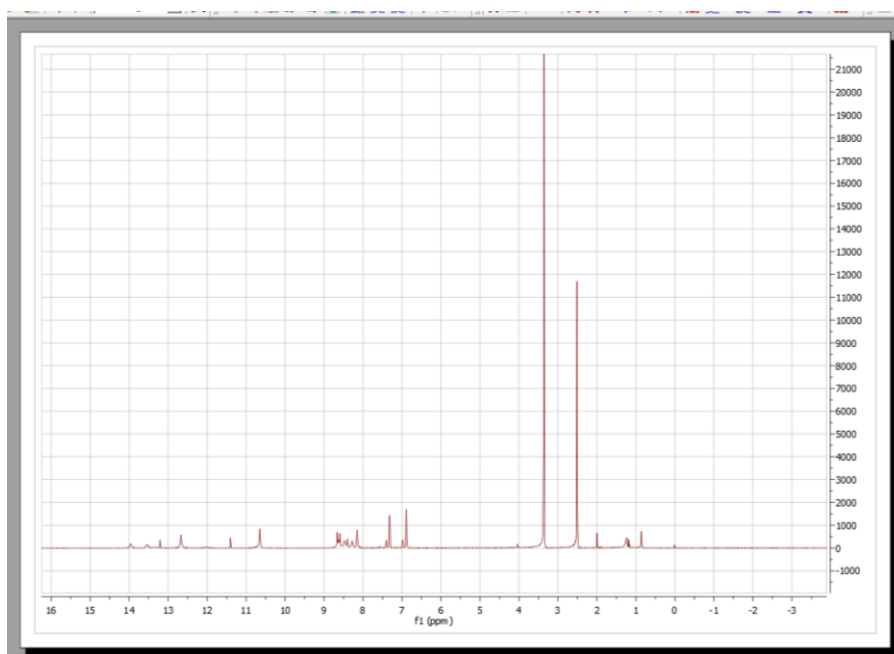
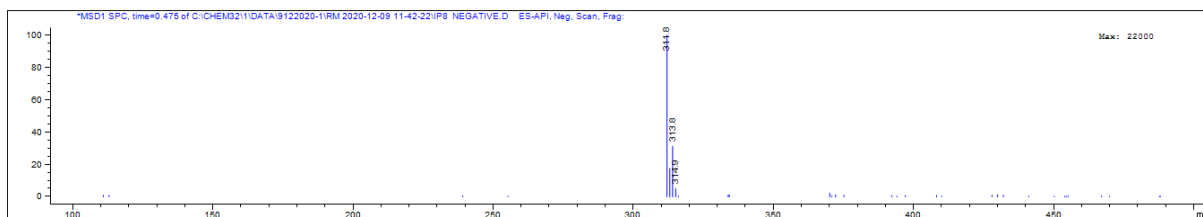
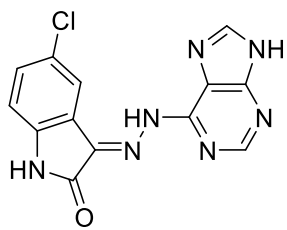
Compound 11:

(E)-3-(2-(9H-purin-6-yl)hydrazineylidene)indolin-2-one (11)



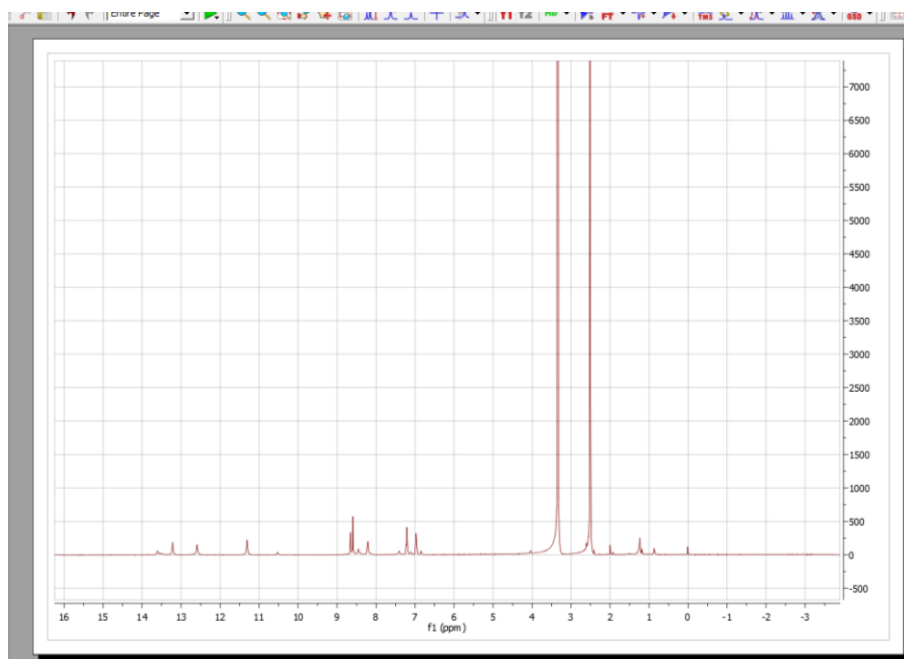
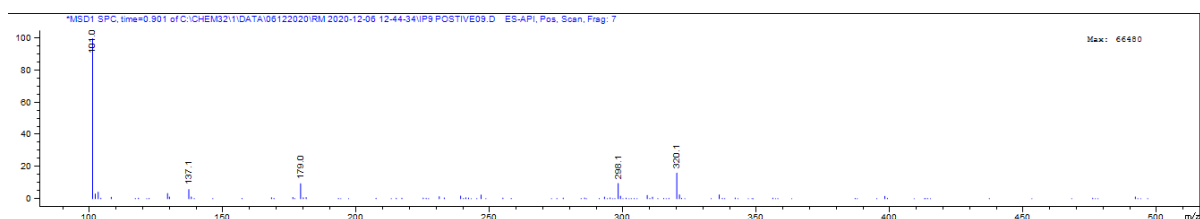
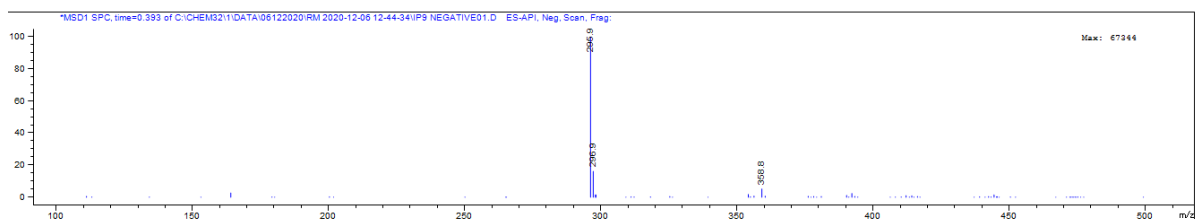
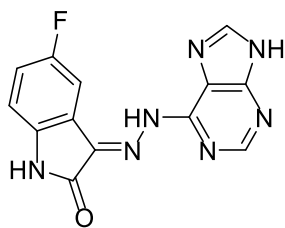
Compound 12:

(E)-3-(2-(9H-purin-6-yl)hydrazineylidene)-5-chloroindolin-2-one (12)



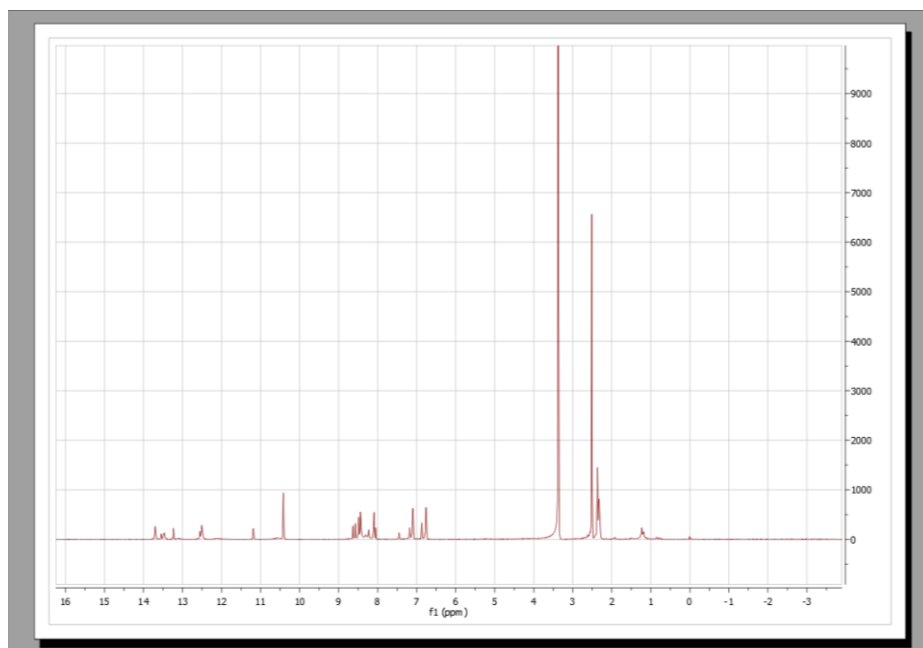
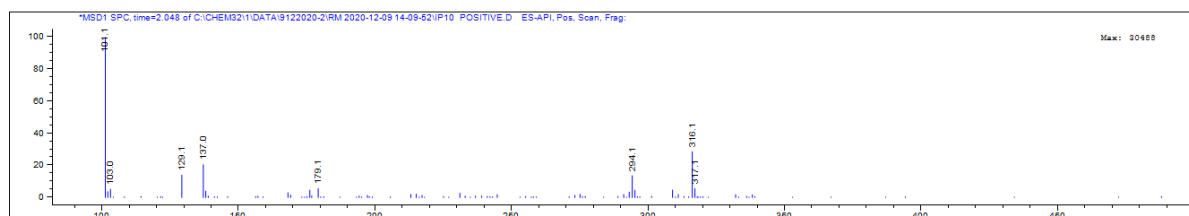
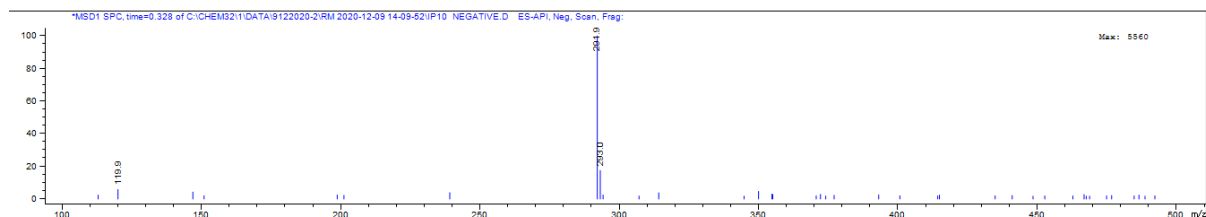
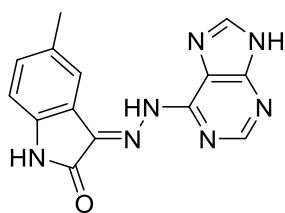
Compound 13:

(E)-3-(2-(9H-purin-6-yl)hydrazineylidene)-5-fluoroindolin-2-one (13)



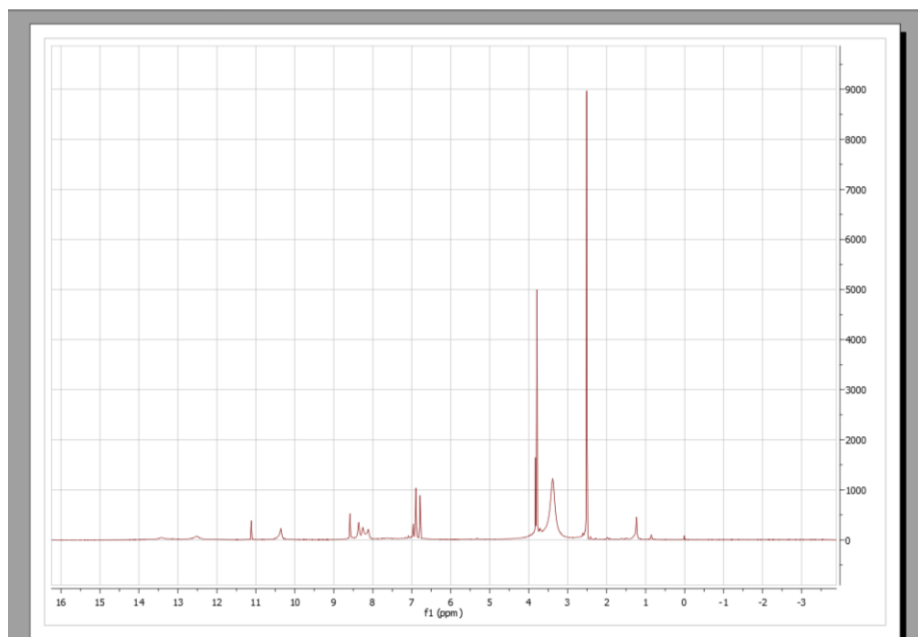
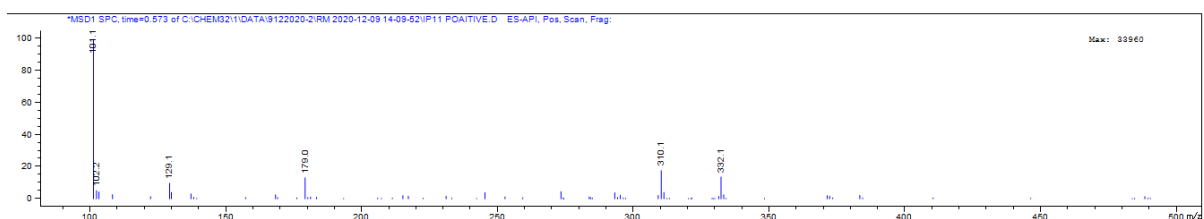
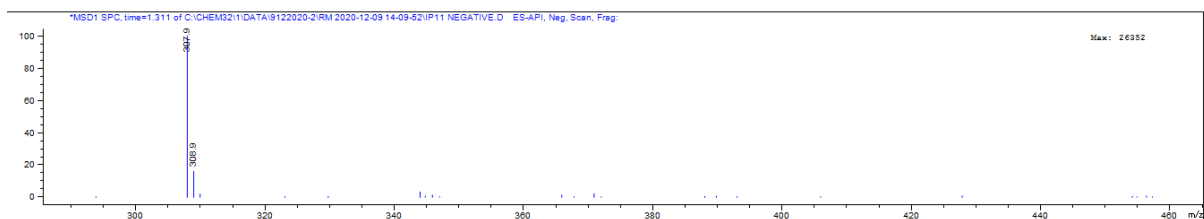
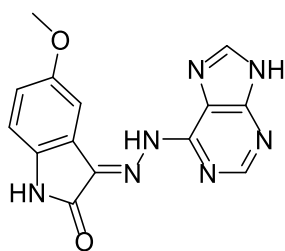
Compound 14:

(E)-3-(2-(9H-purin-6-yl)hydrazineylidene)-5-methylindolin-2-one (14)



Compound 15:

(E)-3-(2-(9H-purin-6-yl)hydrazineylidene)-5-methoxyindolin-2-one (15)



Compound 16:

(E)-3-(2-(9H-purin-6-yl)hydrazineylidene)-5-nitroindolin-2-one (16)

