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Chemoselective Arylation of Phenols with Bromonitroarenes: Synthesis of Nitro-biaryl-ols and Their Conversion into Benzofurans and Carbazoles

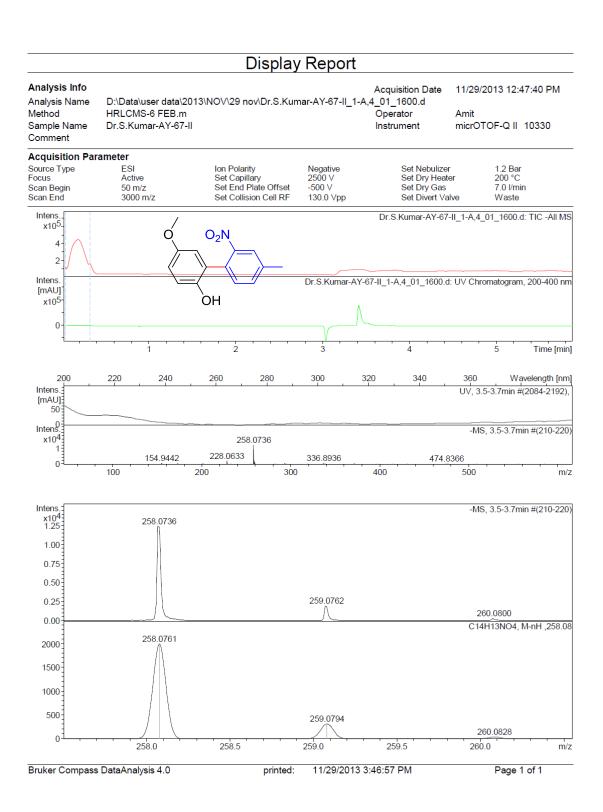
Amit Kumar, Abhimanyu Yadav, Ajay Verma, Sadhan Jana, Mohammad Sattar, Shailesh Kumar, Ch. Durga Prasad and Sangit Kumar*

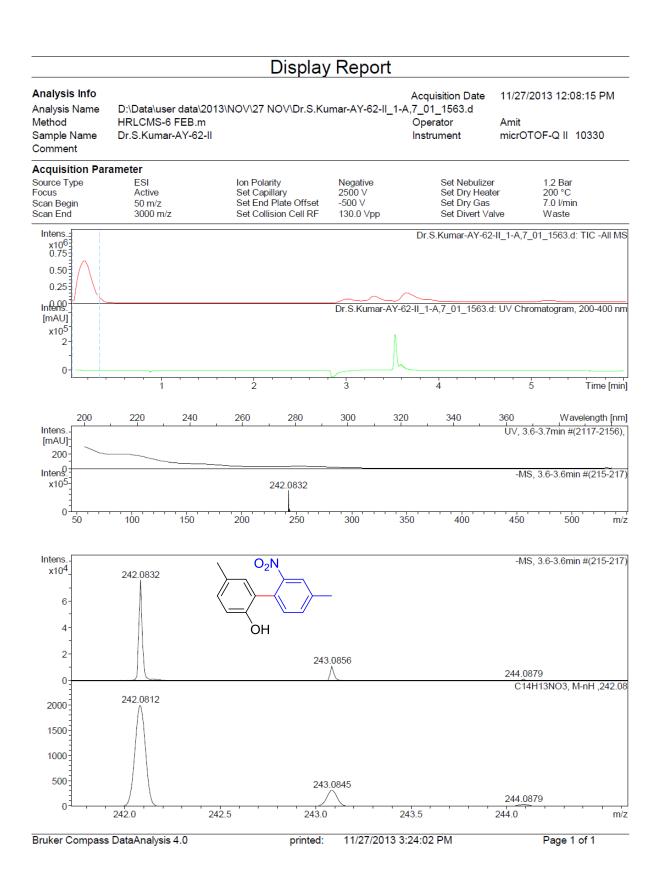
Department of Chemistry, Indian Institute of Science Education and Research (IISER) Bhopal, Indore By-pass Road, Bhauri, Bhopal, Madhya Pradesh, India-462 066

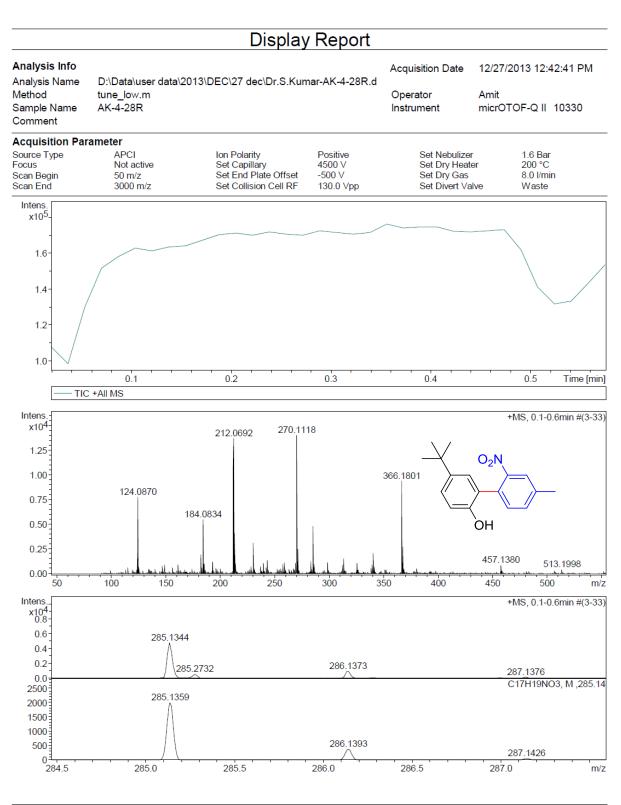
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S2-S42

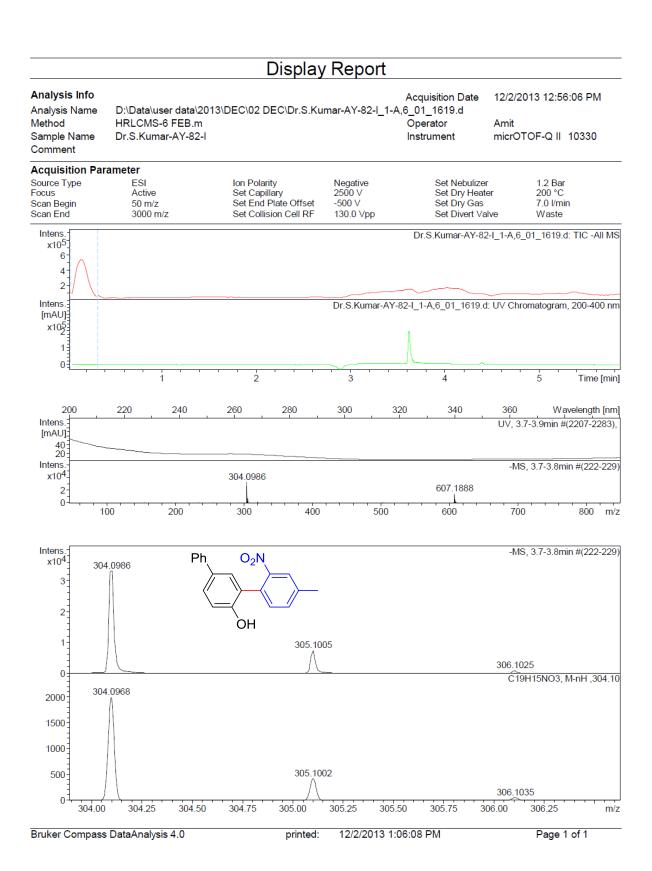


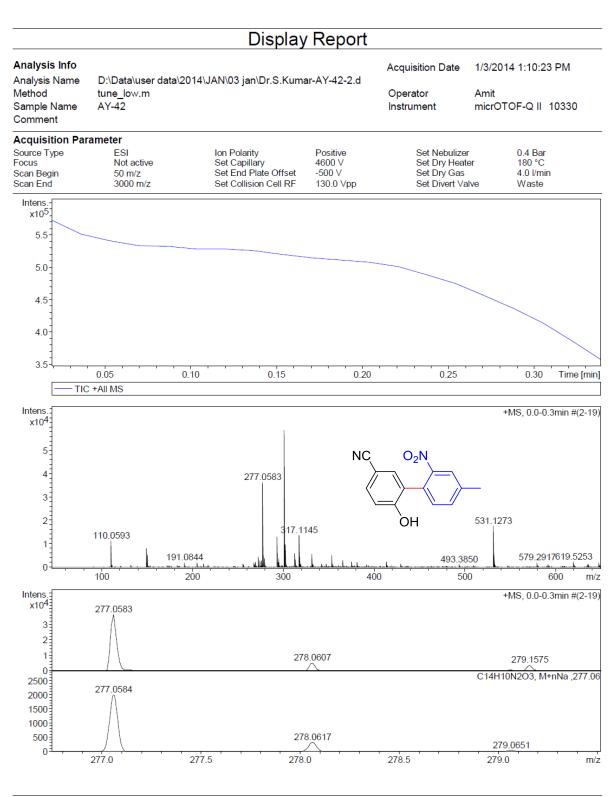




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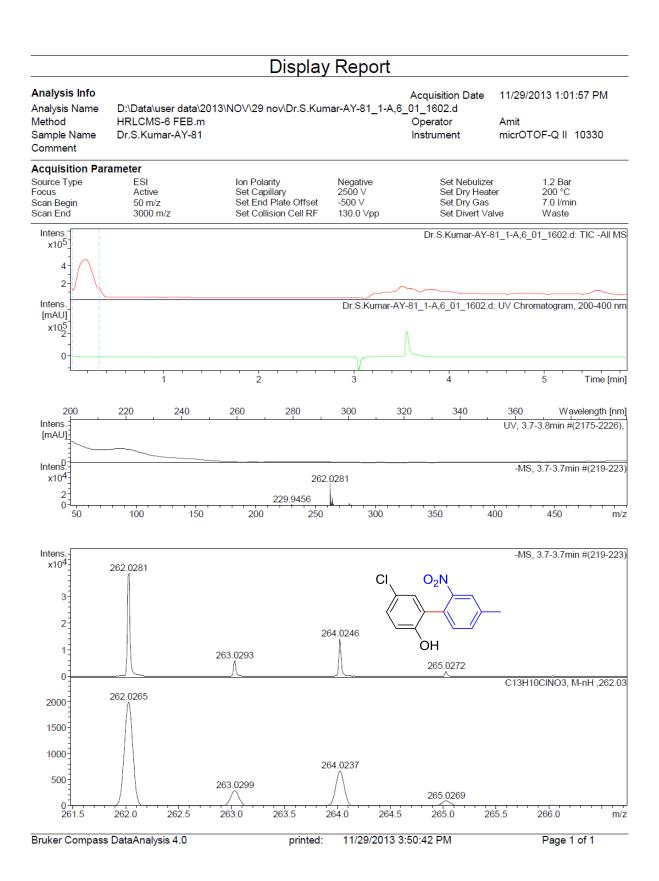


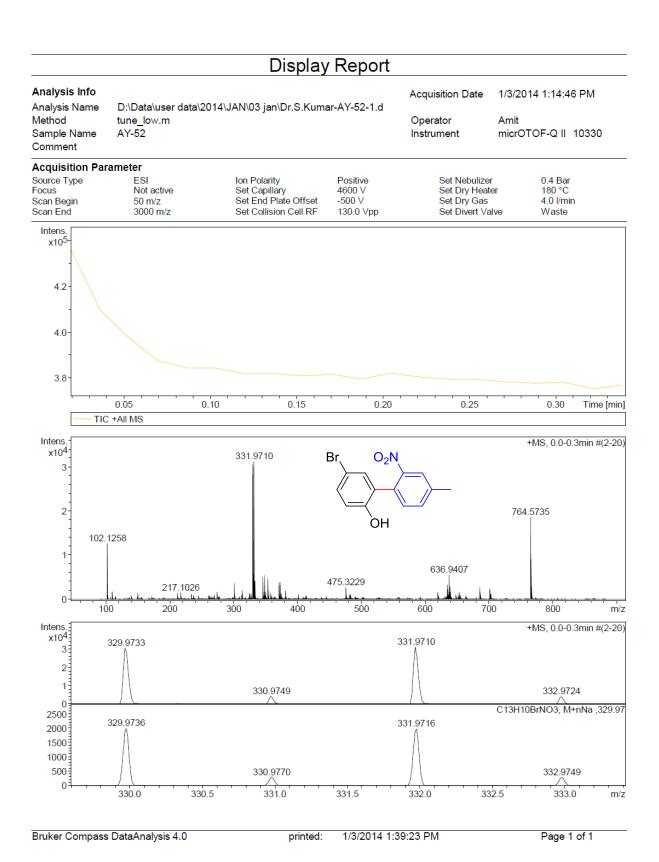


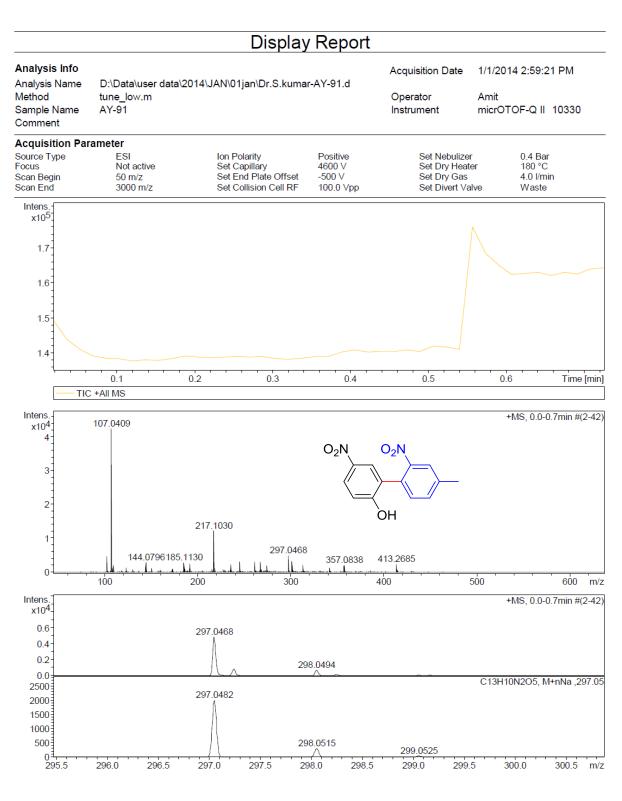
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Display Report Analysis Info Acquisition Date 11/29/2013 12:54:47 PM Analysis Name D:\Data\user data\2013\NO\\29 nov\Dr.S.Kumar-AY-80-II_1-A,5_01_1601.d Method HRLCMS-6 FEB.m Operator Amit Dr.S.Kumar-AY-80-II Sample Name Instrument micrOTOF-Q II 10330 Comment **Acquisition Parameter** Ion Polarity Set Capillary Set End Plate Offset Negative 2500 V Set Nebulizer Set Dry Heater Set Dry Gas 1.2 Bar 200 °C 7.0 l/min Source Type Focus Active Scan Begin 50 m/z -500 V 3000 m/z 130.0 Vpp Scan End Set Collision Cell RF Set Divert Valve Waste Intens. Dr.S.Kumar-AY-80-II_1-A,5_01_1601.d: TIC -All MS x10⁵ 4 2 Intens. Dr.S.Kumar-AY-80-II_1-A,5_01_1601.d: UV Chromatogram, 200-400 nr [mAU] x105 0 Time [min 200 220 240 260 280 300 320 340 360 Wavelength [nm UV, 3.5-3.6min #(2078-2148), Intens. [mAU] Intens. -MS, 3.5-3.6min #(210-216 x10⁴ 246.0563 2 154.9460 292.8893 336.8965 396.8636 445.9856 0 50 100 150 200 250 300 350 400 450 500 Intens. -MS, 3.5-3.6min #(210-216 246.0563 2.5 O_2N 2.0 1.5 1.0 0.5 247.0589 248.0561 0.0 C13H10FNO3, M-nH ,246.06 246.0561 2000 1500 1000 500 247.0594 248.0628 246.5 247.0 247.5 248.0 248.5 246.0 m/; Bruker Compass DataAnalysis 4.0 printed: 11/29/2013 3:49:00 PM Page 1 of 1

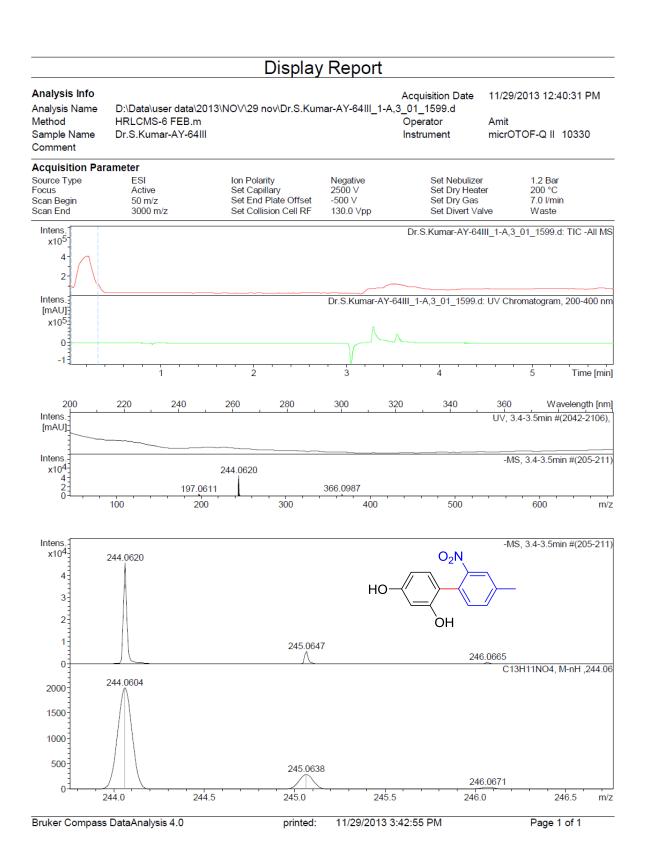


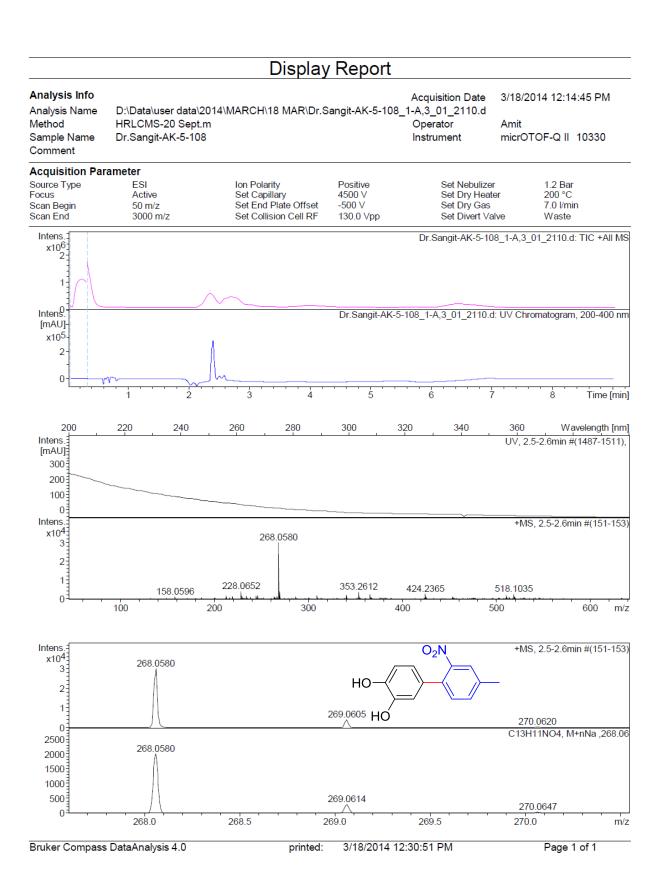


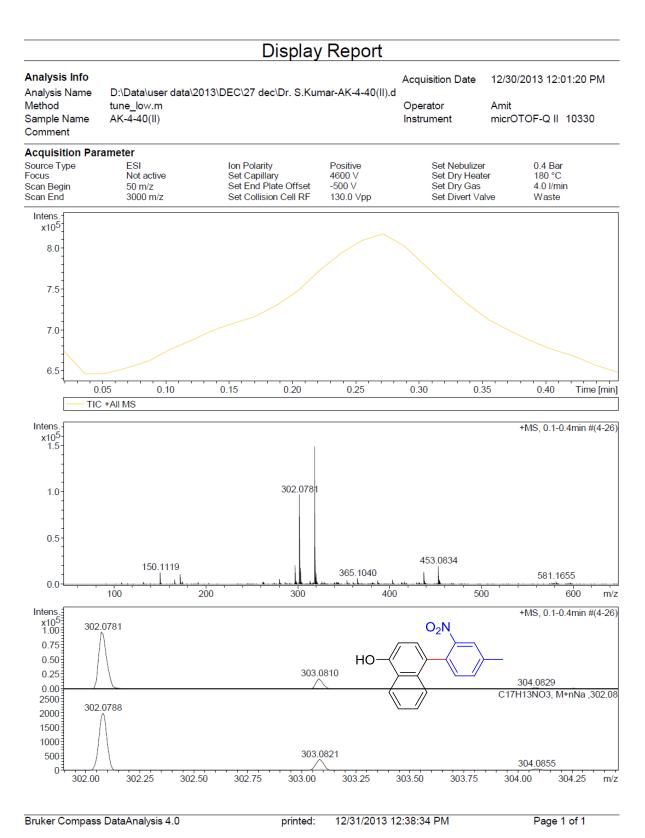


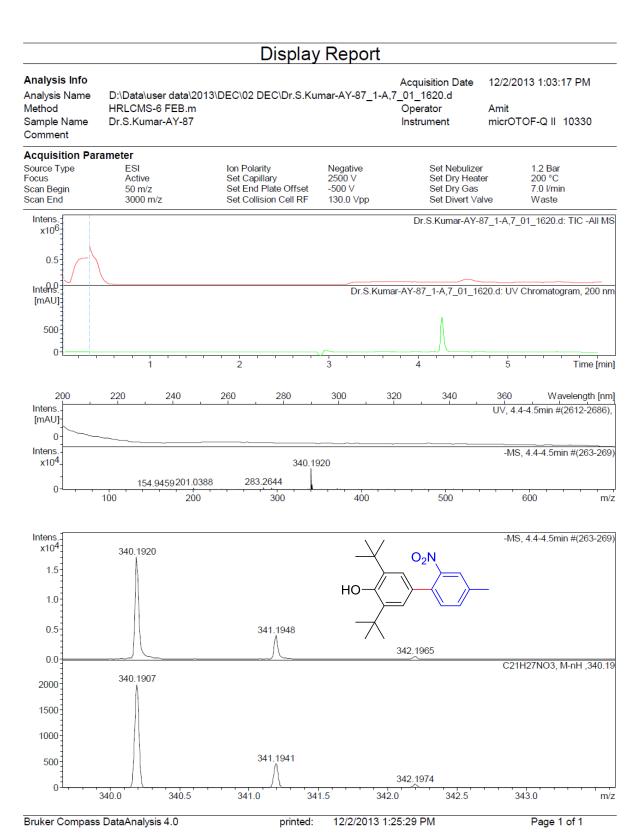
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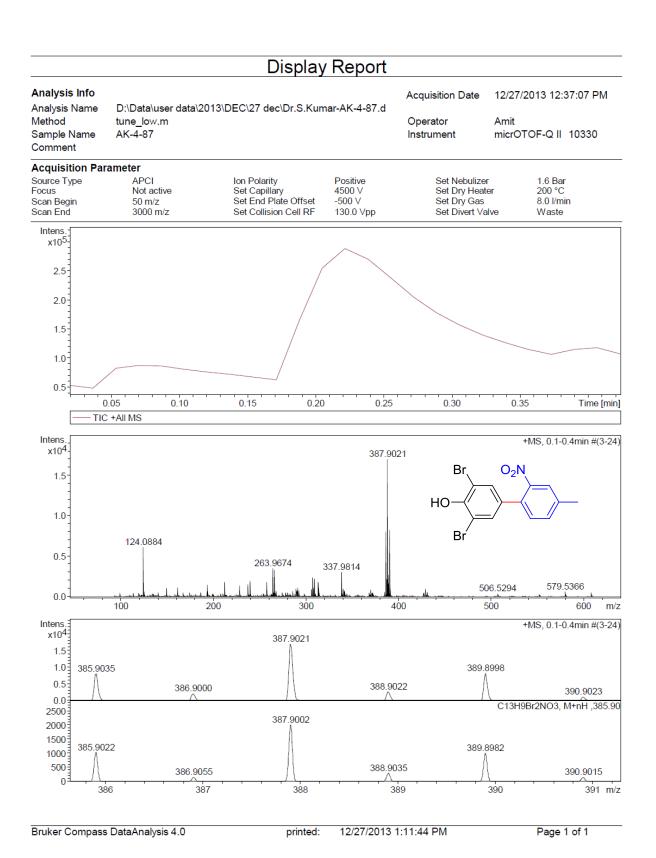
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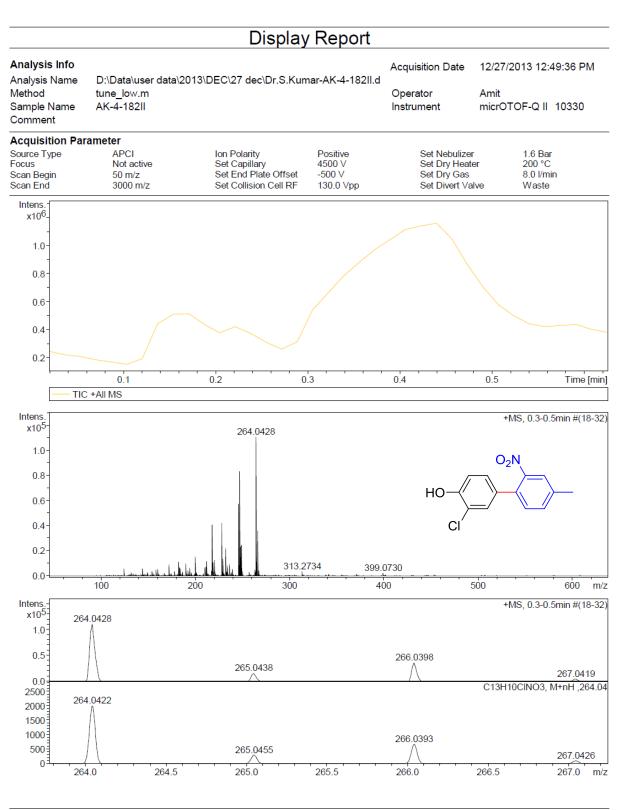






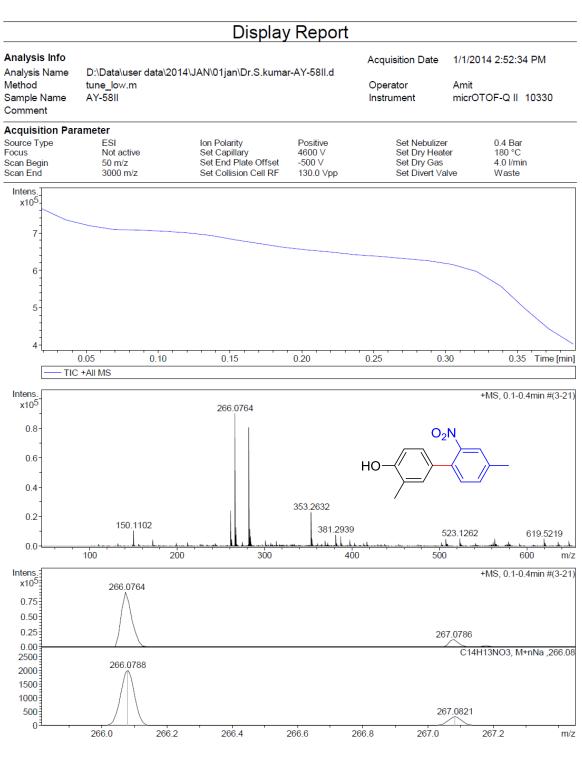




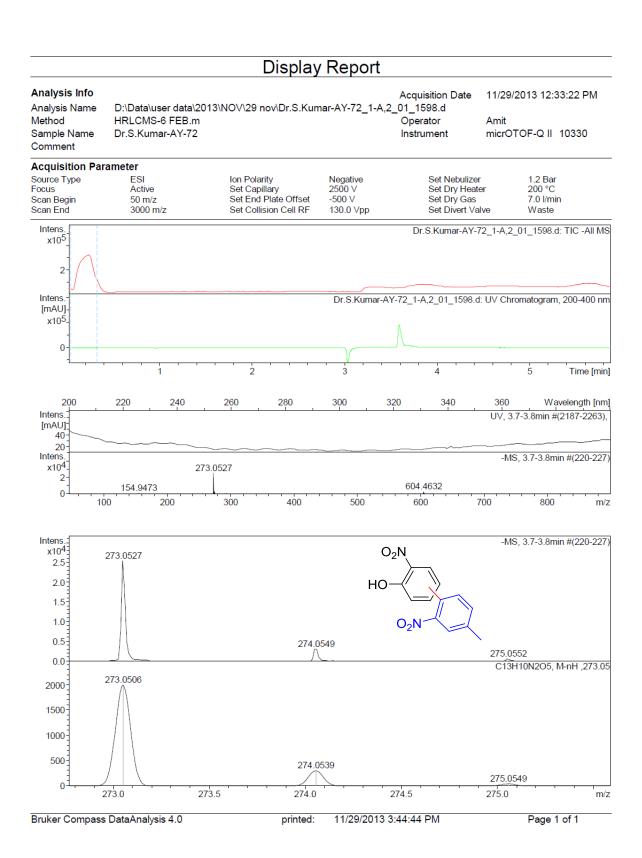


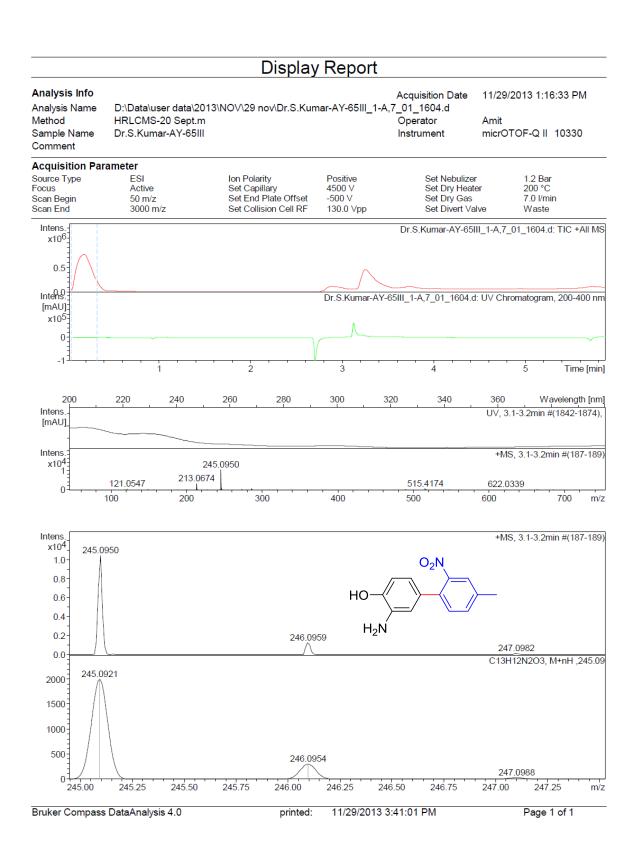
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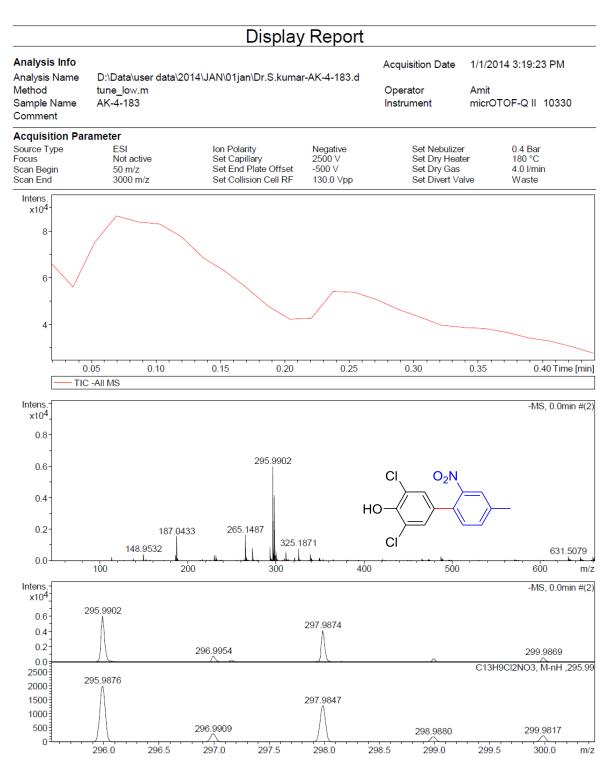
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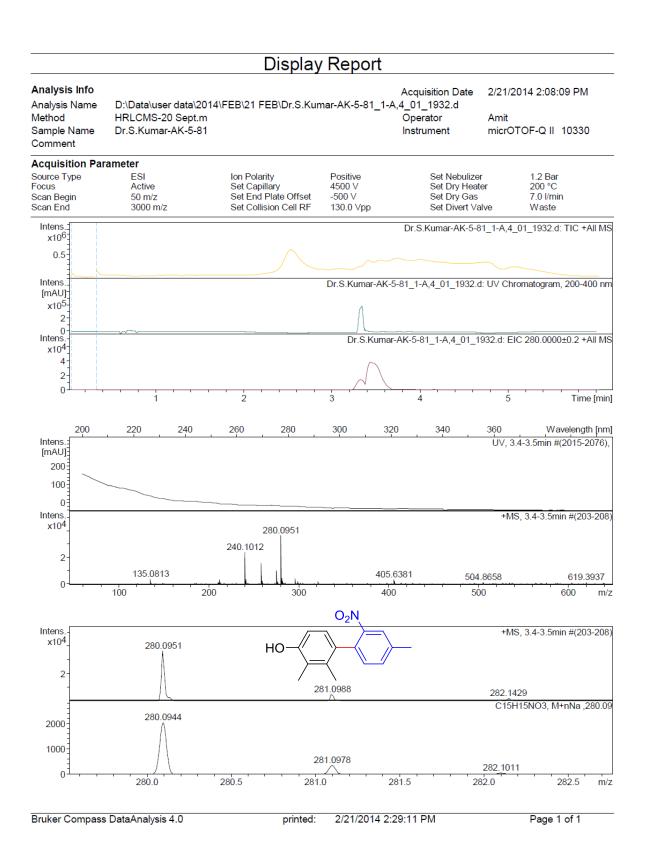
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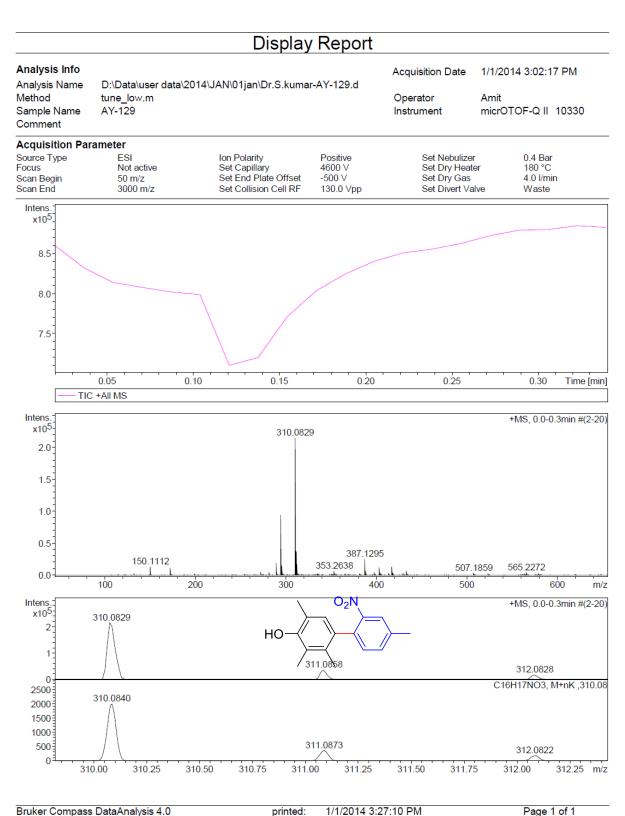




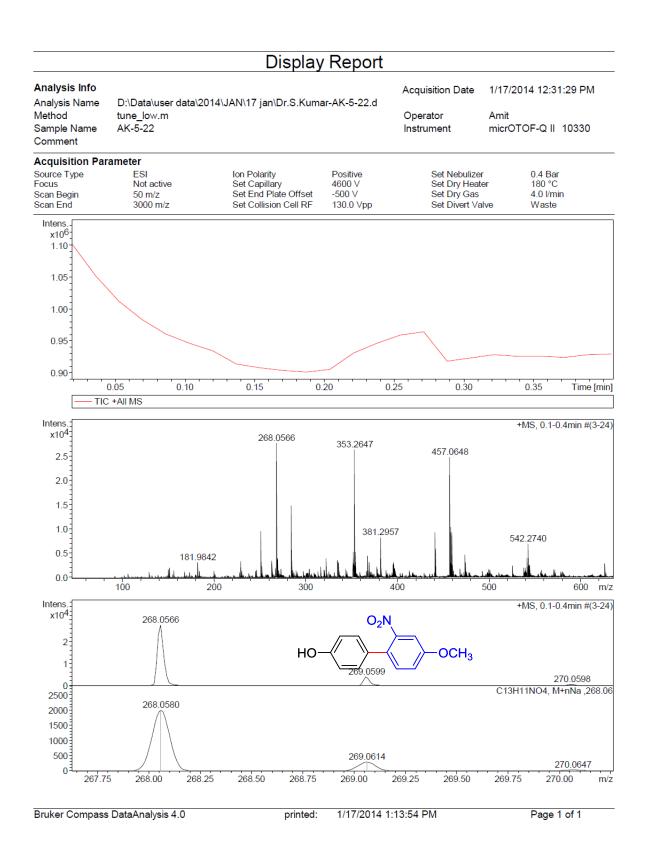


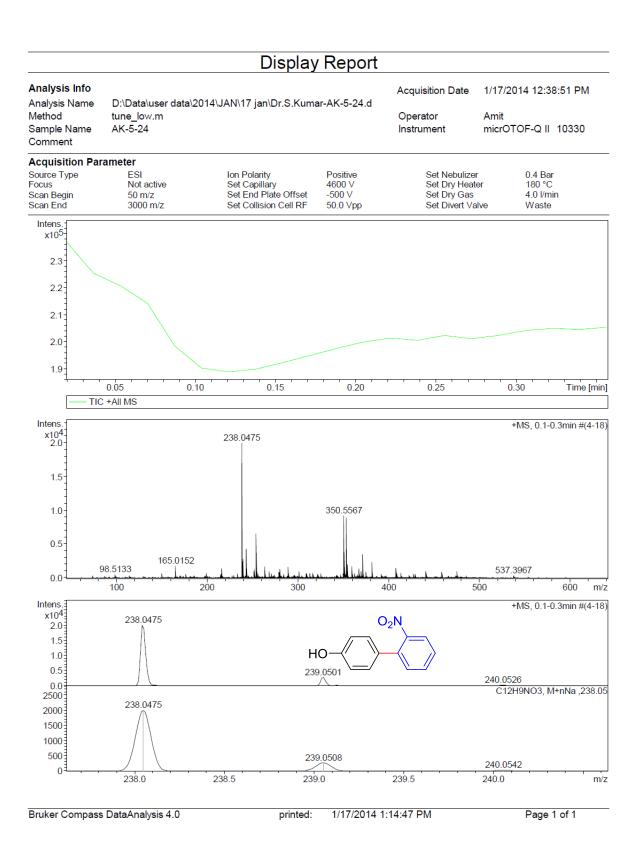
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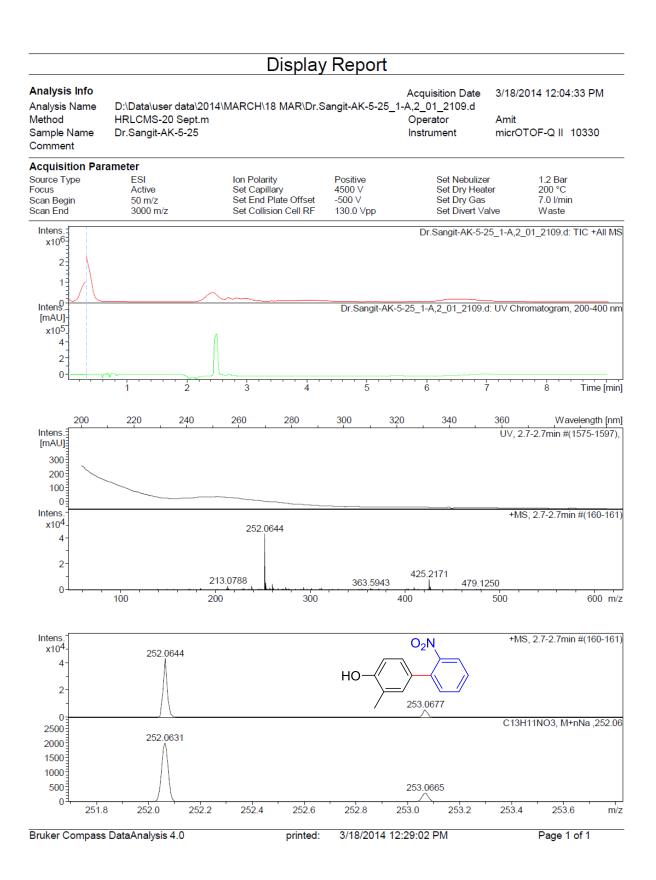


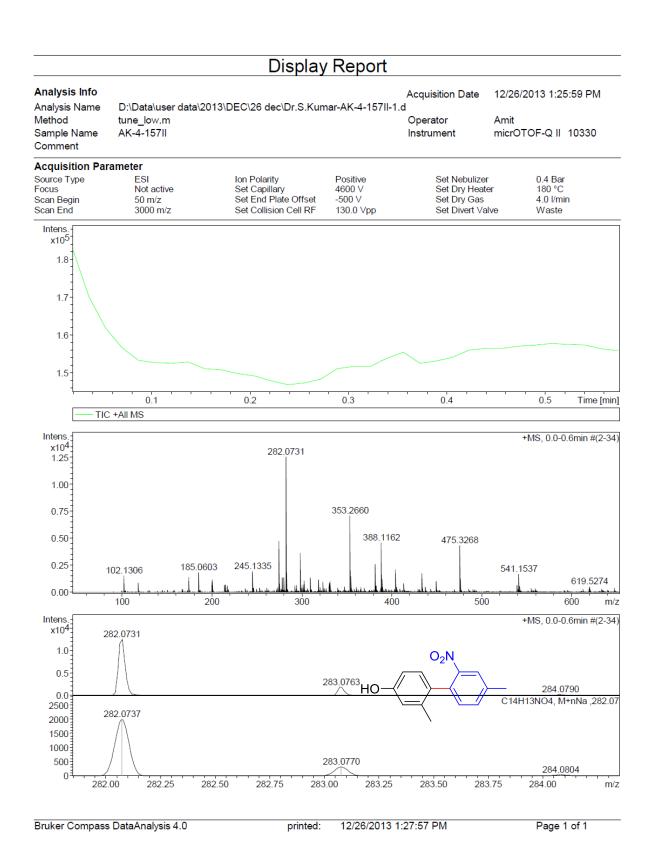


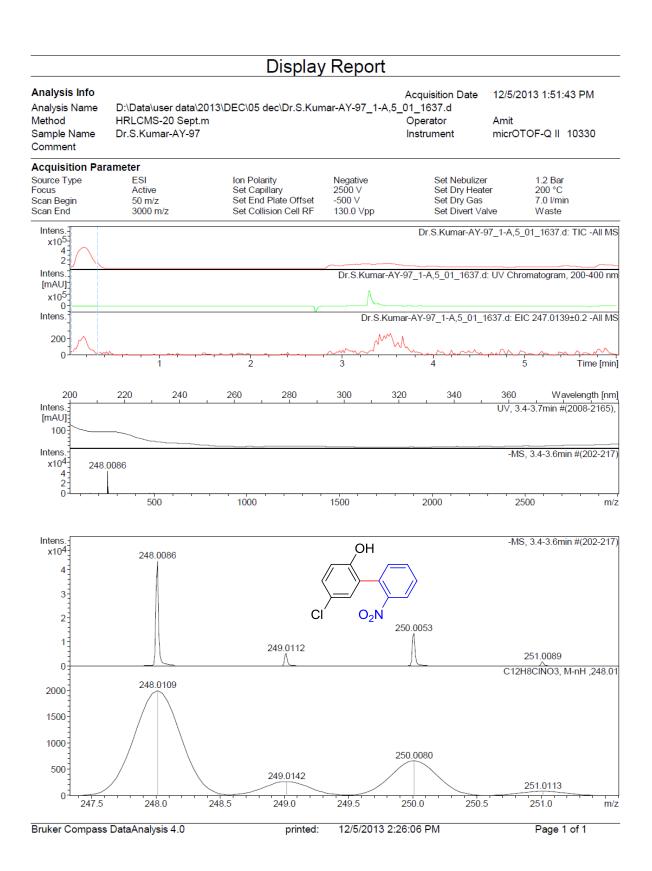
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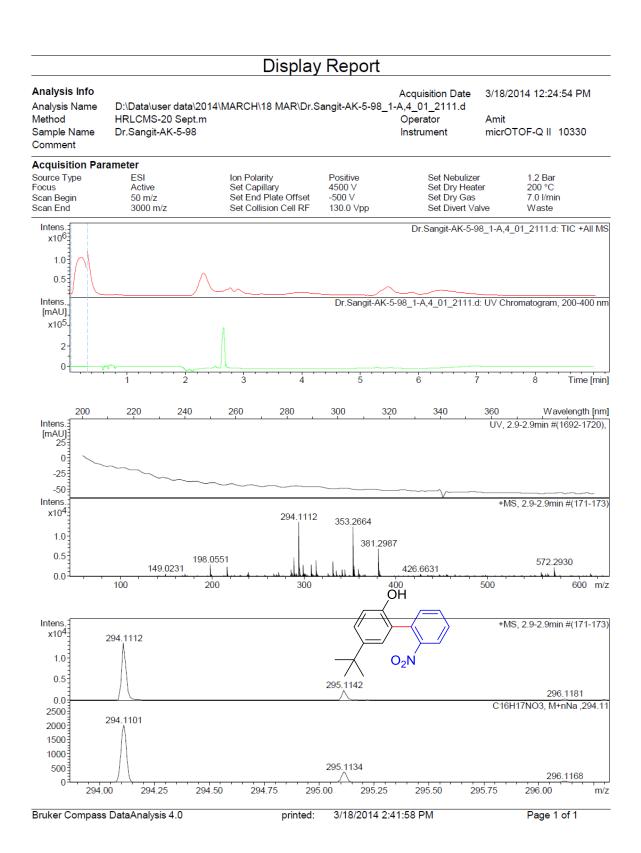


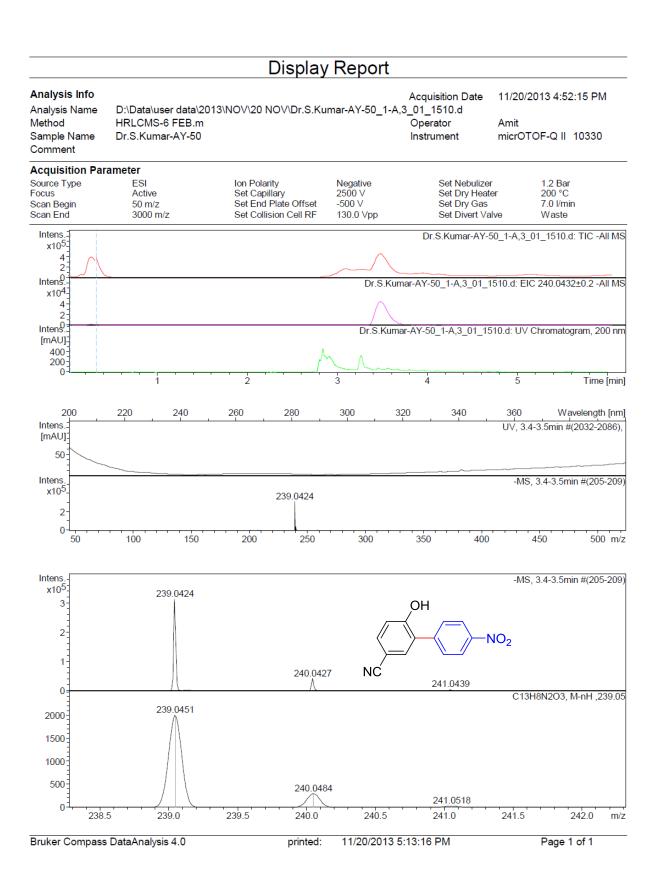


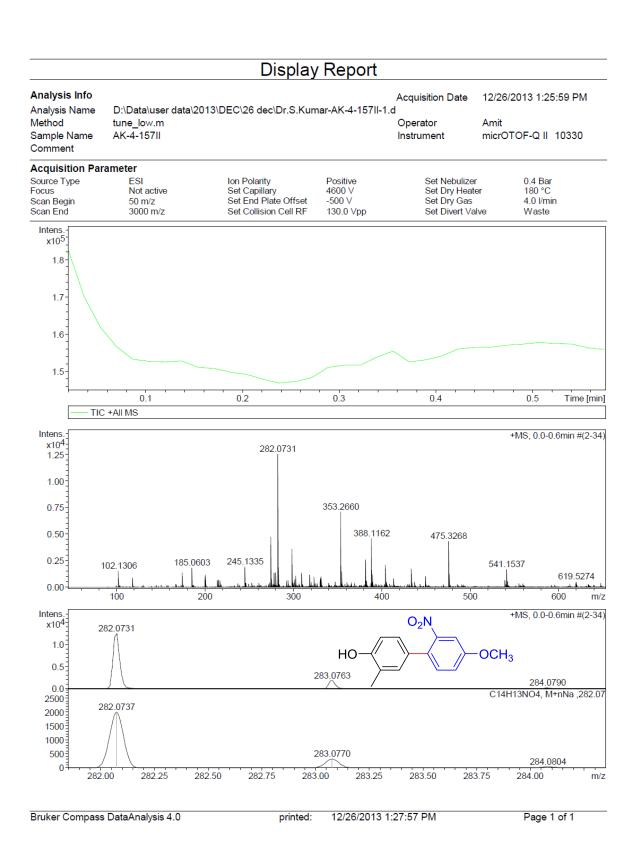


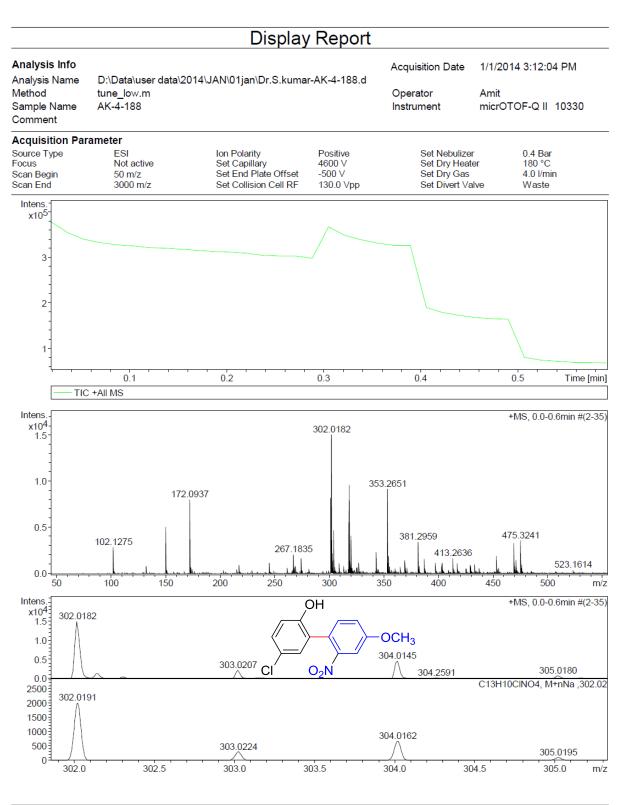












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