

**Chemical Information:**

Name: 9-Fluorenone  
CAS No.: 486-25-9  
Tox21\_ID No.: Tox21\_202919  
NTP\_CID No.: 6532

Supplier: Sigma-Aldrich  
Lot No.: STBB1247V  
MW: 180.20 g/mol

Date of Analysis: 14 December 2016

**Purity and Identity Results:**

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Unknown	7.21	1.09
Unknown	22.74	0.54
9-Fluorenone	33.85	97.87

<sup>a</sup> Peaks comprising  $\geq 0.5\%$  of total area.

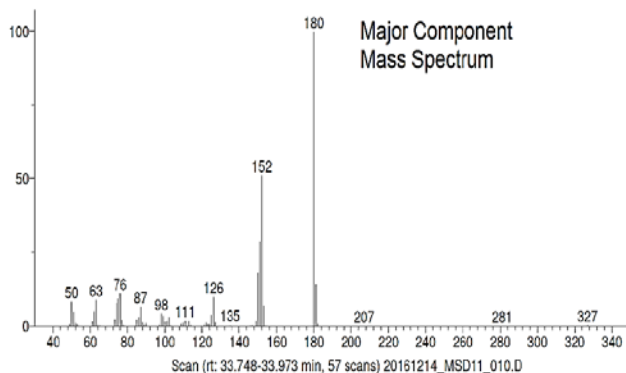
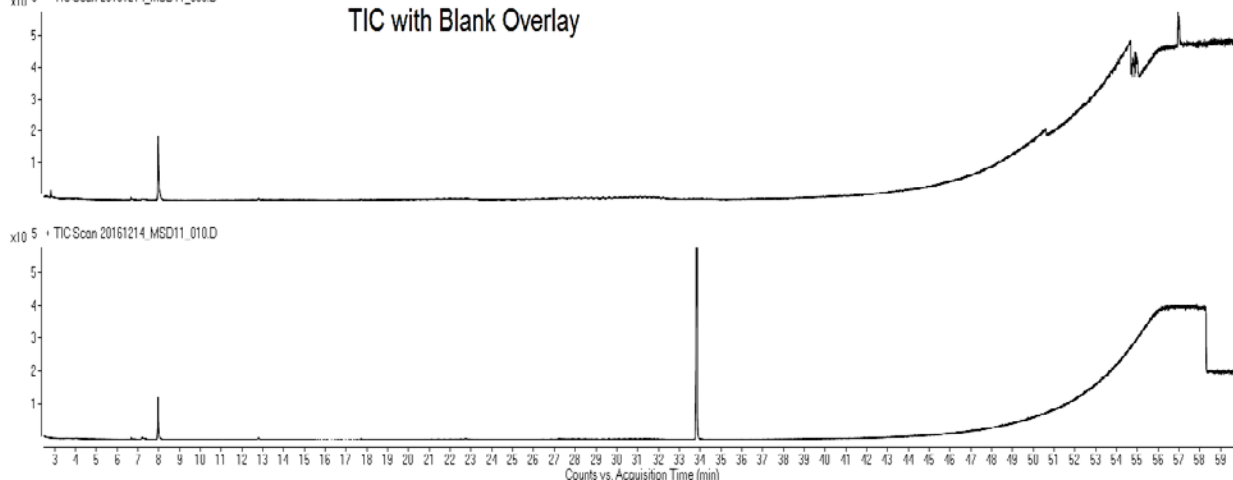
**GC/MS Instrument Parameters:**

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Acetone
Column	Rtx-5 MS, 30 m x 0.25 mm ID, 1- $\mu$ m film thickness
Carrier Gas	Helium at 1.5 mL/min
Oven Program	50°C, hold 2 min; ramp @ 5°C/min to 315°C, hold 5 min
Source Temperature	230°C
Auxiliary Temperature	250°C
Scan Range	40 – 380 amu
Injector Temperature	250°C
Injection Volume / Mode	1 $\mu$ L / Splitless
Data Analysis Software	MassHunter GC/MS Acquisition B.07.02.1938 / MassHunter Qualitative Analysis B.07.00 Build 7.0.7024.0 / NIST Library Version 2.2f Build 2014

x10<sup>5</sup> • TIC Scan 20161214\_MSD11\_003.D

TIC with Blank Overlay

x10<sup>5</sup> • TIC Scan 20161214\_MSD11\_010.D



Hit 1: 9H-Fluoren-9-one  
C13H8O; MF: 917; RMF: 922; Prob 42.7%; CAS: 486-25-9; Lib: replib; ID: 22899.

