```
assume(a1, Type::Real):
[ assume(a2, Type::Real):
assume (wO, Type::Real):
assume(wV, Type::Real):
[ assume (we, Type::Real):
[11:=w0+sqrt(-1)*wV^2/we]
  wO + \frac{wV^2 i}{we}
12:=-w0+sqrt(-1)*wV^2/we
  -wO + \frac{wV^2 i}{we}
[ assume(uhat0, Type::Real):
assume (A, Type::Real):
a1:=uhat0
  uhat0
assume(nu, Type::Real):
assume(k, Type::Real):
a2:=0
  0
A:=collect((a2-a1*12)/(11-12), sqrt(-1))
 \left(-\frac{\text{uhat0 wV}^2}{2 \text{ wO we}}\right) i + \frac{\text{uhat0}}{2}
assume(t, Type::Real):
  uQS1:=collect(A*exp(-wV^2*t/we)*(cos(wO*t)+sqrt(-1)*sin(wO*t)), sqrt(-1))
   -\left(-\frac{\mathsf{uhat0}\,\mathsf{wV}^2\,\sigma_1\,\mathsf{sin}(t\,\mathsf{wO})}{2\,\mathsf{wO}\,\mathsf{we}}\right) + \left(\frac{\mathsf{uhat0}\,\sigma_1\,\mathsf{sin}(t\,\mathsf{wO})}{2} - \frac{\mathsf{uhat0}\,\mathsf{wV}^2\,\sigma_1\,\mathsf{cos}(t\,\mathsf{wO})}{2\,\mathsf{wO}\,\mathsf{we}}\right)\,\mathsf{i} + \frac{\mathsf{uhat0}\,\sigma_1\,\mathsf{cos}(t\,\mathsf{wO})}{2}
   where
 B:=collect(-(a2-a1*11)/(11-12), sqrt(-1))
  \frac{\text{uhat0 wV}^2}{2 \text{ wO we}} i + \frac{\text{uhat0}}{2}
[uQS2:=collect(B*exp(-wV^2*t/we)*(cos(wO*t)-sqrt(-1)*sin(wO*t)), sqrt(-1))]
```