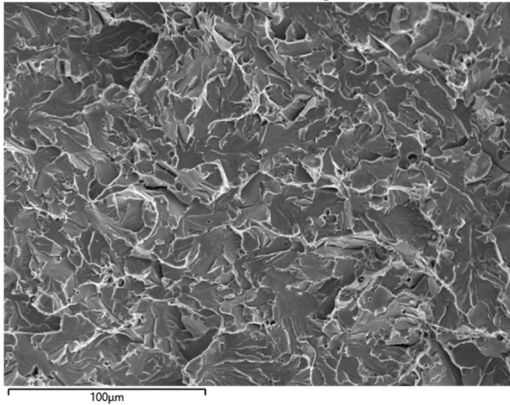| Brittle	Ductile

a) BSE image of fracture surface britle sample
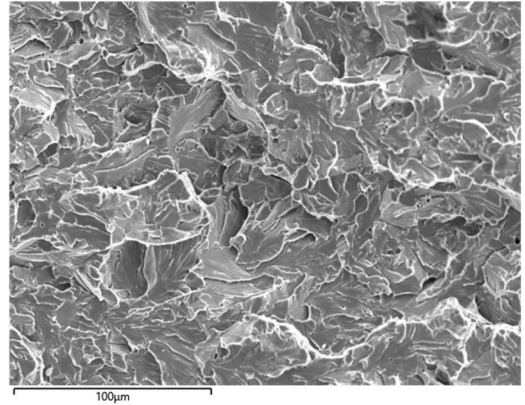
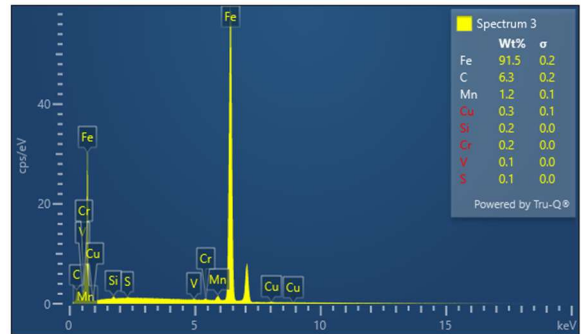b) BSE image of fracture surface ductile sample

	Spectrum 2	
	Wt%	σ
Fe	97.8	0.1
Mn	1.4	0.1
Cr	0.2	0.0
Si	0.2	0.0
Cu	0.2	0.1
V	0.1	0.0
S	0.1	0.0

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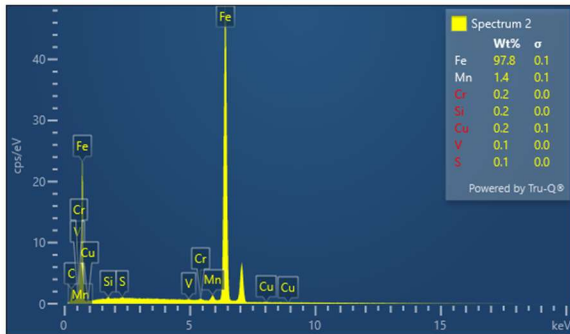
c) Spectrum analysis in brittle sample

	Spectrum 3	
	Wt%	σ
Fe	91.5	0.2
C	6.3	0.2
Mn	1.2	0.1
Cu	0.3	0.1
Si	0.2	0.0
Cr	0.2	0.0
V	0.1	0.0
S	0.1	0.0

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d) Spectrum analysis in ductile sample