

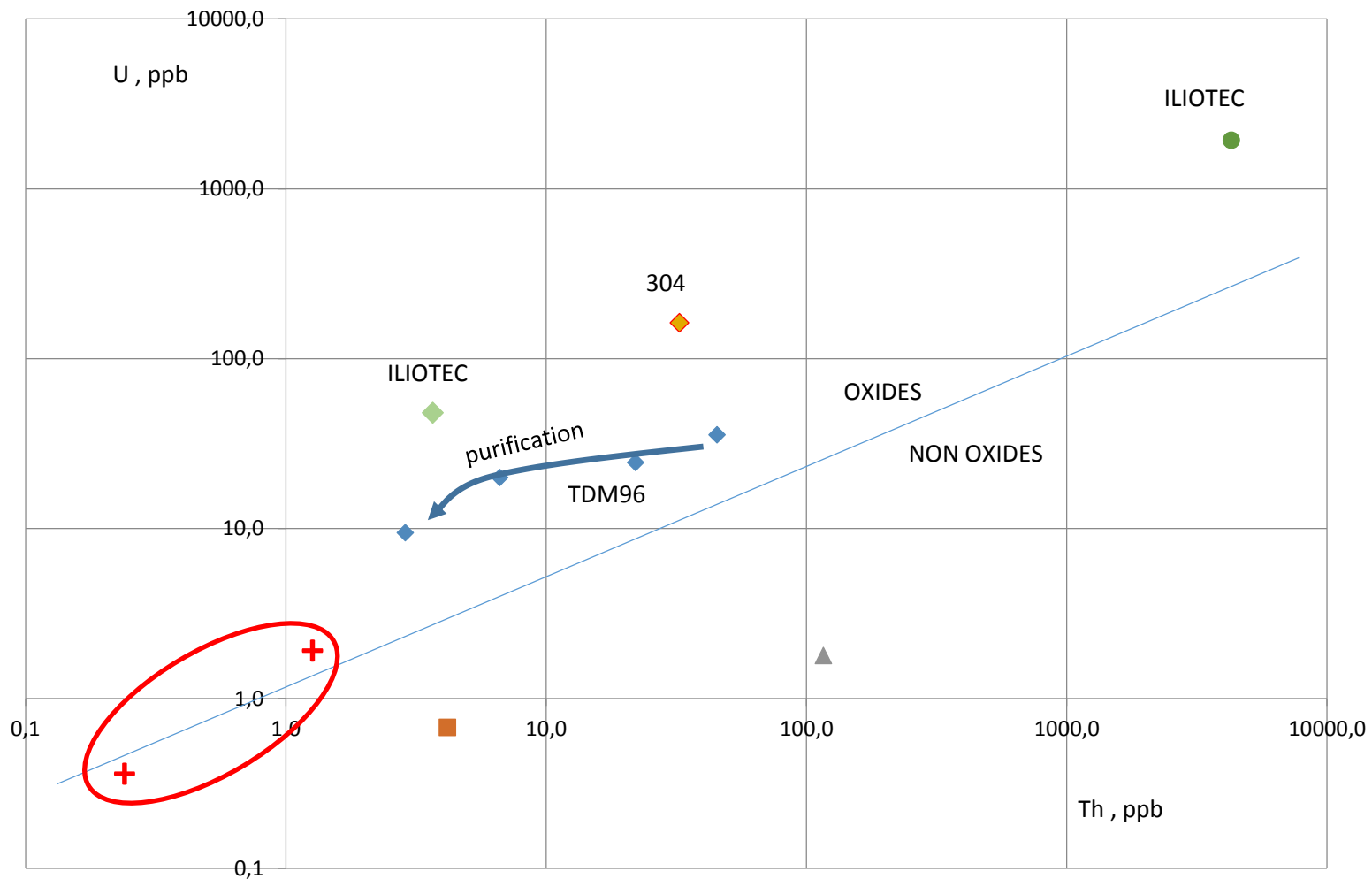
Gd –compounds radiopurity according ICP-MS data (Mendeleev University) (Feb 25, 2020)

	TDM96 (RU) Gd ₂ O ₃ ,	TDM96 (RU) Gd ₂ O ₃ after 3 rd stage of purification	Lankhit (RU) GdCl ₃	Gd ₂ (SO ₄) ₃ (99.9%)	Nanopowder Gd ₂ O ₃ -304 (99.9 %)	ILIOTEC (20-80nm)	ILIOTEC (100 nm)	IREA (RU) Gd(NO ₃) ₃ 5N (99,999% over 65 impurities)	IREA (RU) Gd ₂ O ₃
Th, mBq/kg (Standard deviation, mBq/kg)	184 (52)	12 (4)	17.0 (0.8)	472(51)	132(13)	15(3)	17438(4709)	0,8(0,1)	4,8(1,1)
U, mBq/kg (Standard deviation, mBq/kg)	440 (43)	117 (37)	8.3 (0.6)	22(1)	2005(93)	592(13)	23817(989)	2,8(0,5)	16,7(0,8)
	Gd ₂ O ₃ SHIN-ETSU	Gd ₂ O ₃ NIPPON-YTTRIUM							
Th, mBq/kg (Standard deviation, mBq/kg)	56 (11)	59(18)							
U, mBq/kg (Standard deviation, mBq/kg)	9,3 (0,2)	1467(106)							

1 Bq ²³⁸U/kg = 81 ppb U
 1 Bq ²³²Th/kg = 246 ppb Th

NEW DATA

Gd –compounds radiopurity according ICP-MS data (Mendeleev University) (Nov 25, 19)



Gd –compounds radiopurity according ICP-MS data (Mendeleev University) (Feb 25, 2020)

