

**From:** "Zoon, Robert (NIH/OD/ORS) [E]" <zoonr@ors.od.nih.gov>  
**To:** "Sandra Gabriel" <SLG2@nrc.gov>  
**Date:** Wed, Dec 21, 2005 11:30 AM  
**Subject:** RE: Followup to yesterday's phone conversation with Penny Lanzisera (Ra-224)

Sandy,

From the Canberra Accuscan whole body counting library, based on a 10 minute count, with no sample in the Accuscan:

Nuclide	Nuclide MDA (nCi)
Ra-224	0.56
Pb-212	0.05
Bi-212	0.25

In the radionuclide laboratory, using the high resolution germanium detector with Ortec electronics and GDR analytical software, calibrated for a 20 mL sample [such as a urine sample], counted for 20 minutes:

Nuclide	MDA (nCi)
Ra-224	0.15
Pb-212	0.01
Bi-212	0.04

Hope this satisfies all of your information needs for this amendment. Have a nice holiday.

Bob

-----Original Message-----

**From:** Sandra Gabriel [mailto:SLG2@nrc.gov]  
**Sent:** Wednesday, December 21, 2005 8:33 AM  
**To:** Zoon, Robert (NIH/OD/ORS) [E]  
**Subject:** Followup to yesterday's phone conversation with Penny Lanzisera (Ra-224)

Bob:

Penny asked you to provide MDAs for Ra-224, Pb-212, and Bi-212. If you e-mail this information, we will reference it in the cover letter.

Do you know how quickly you might be able to provide this? I would like to issue the amendment this week, today if possible.

thank you,  
Sandy

**CC:** "Carter, Douglas (NIH/OD/ORS) [E]" <carterdou@mail.nih.gov>, "Enders, Christine (NIH/OD/ORS) [E]" <Endersc@ors.od.nih.gov>, "Ribaudoc, Cathy (NIH/OD/ORS) [E]" <ribaudoc@ors.od.nih.gov>

19-00296-10  
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**Mail Envelope Properties** (43A98300.A42 : 9 : 43586)

**Subject:** RE: Followup to yesterday's phone conversation with Penny Lanzisera (Ra-224)  
**Creation Date:** Wed, Dec 21, 2005 11:29 AM  
**From:** "Zoon, Robert (NIH/OD/ORS) [E]" <[zoonr@ors.od.nih.gov](mailto:zoonr@ors.od.nih.gov)>  
**Created By:** [zoonr@ors.od.nih.gov](mailto:zoonr@ors.od.nih.gov)

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**Size**

1247

2889

**Date & Time**

Wednesday, December 21, 2005 11:29

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