

## RAD-X Device & Phase B Workshop

**1) Will the Rad-X radiation detector video be shared with us?**

- The video can be found on <https://snrsi.nus.edu.sg/outreach/rad-x-radiation-detector>

**2) Where can I find the QR codes to download the app for the Rad-X**

- The QR codes are found on the quickstart guide. The links may also be found on <https://snrsi.nus.edu.sg/outreach/rad-x-radiation-detector>

**3) My device and app have been set up properly, it also emits a beeping sound with a blue blinking light. However, my app cannot detect the device, what should I do**

- Connect the device to the small Bluetooth icon on the bottom right of the app's main page instead of the phone's Connect Bluetooth Device popup

**4) Can we use the topics given as a guide for sampling measurements?**

- Yes

**5) Why is my data not reflected in the 'historical data' section even though I have recorded data on the display page?**

- Restart the app and if the problem persists, contact [snrv11@nus.edu.sg](mailto:snrv11@nus.edu.sg) and provide the email address used to login onto the app.

**6) Since 0.5 mark is awarded for every reading, how is my reading judge?**

- The reading must be relevant to research question. Also, measurements have to be valid. E.g. Measurements that are 0 or absurdly high are considered invalid.

**7) Is there a fixed range of valid reading that we have to follow?**

- No, but do note that background radiation is always present thus the reading should never be 0. Participants are encouraged to explore and learn more about this on their own.

**8) Is there a limit on how many topics I have to choose for the 40 readings and report?**

- The minimum requirements is one topic however participants can do more if they're keen.

**9) How do we find the serial number on the Rad-X devices?**

- Under the Bluetooth tab in the app, the serial number is expressed as RX-Number

**10) Do we have to repeat readings to increase accuracy ?**

- It is recommended to repeat readings for statistical accuracy and soundness of data

**11) If we take repeated reading will it be included in the 40 readings**

- Yes.

**12) Do we have to go to 40 places for 40 readings?**

- No, you can get all readings in one or more places.

**13) What does the square on the top left "Data Entry" refer to?**

- It refers to the data that have been taken in that session.

**14) For phase A, will we be given any radiation sources for our experiments?**

- No. If you believe you have a strong need for it, please contact [snrv11@nus.edu.sg](mailto:snrv11@nus.edu.sg), but do note that requests will be considered on a case-by-case basis.

**15) How does the 40 background measurements link to our research project?**

- It is linked to the research question that you have chosen from the list (available at <https://snrsi.nus.edu.sg/outreach/eic-phase-b>). You may also come up with your own topic but you will need to contact [snrv11@nus.edu.sg](mailto:snrv11@nus.edu.sg) for approval.

**16) How exactly do you tell the Rad-X devices apart when connecting them?**

- When the device is connected to the app, the Rad-X device's LED will turn green

**17) Will we be able to extract the measurement data from Rad-X as an excel graph/table form?**

- You will have to manually extract it from the historical data. It is also better to record the readings outside of the app should you forget your login information.

**18) Why does the floor level not change on the phone?**

- Depending on the phone, you may have to double tap the floor level button to access it.

**19) For Phase A, how will we know the feasibility of our proposal (for the building of prototype in Phase C) and what resource constraints do we have?**

- You can approach Science Centre, SNRSI or your mentors to check if your proposal is feasible. As it's an ionising radiation project, it's very hard to get ionising radiation sources thus you will have to come up with a prototype without the ionising radiation component but instead support your prototype with research and documents to prove that it will work. However, if you believe you have a strong need for an ionizing radiation source, please contact [snrv11@nus.edu.sg](mailto:snrv11@nus.edu.sg), but do note that requests will be considered on a case-by-case basis.