The researchers use convenience sampling as a non-probability sampling method due to resource limitation in collecting feedback. The method yields a total 114 responses.

The researchers adapt Cuevas R. V (2022) Likert scale with values one to four, where value one leans to strongly agree and value four leaning to strongly disagree.

The table below shows the verbal descriptions of the values.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **Verbal Descriptions** | | | |
| **Values** | **Statistical Range (mean)** | **SOP 4a** | **SOP 4b** | **SOP 4c** | **SOP 4d** |
| 1 | 1 - 1.74 | Extremely Well | Very High Quality | Excellent | Very Satisfied |
| 2 | 1.75 - 2.49 | Very Well | High Quality | Above Average | Somewhat Satisfied |
| 3 | 2.5 - 3.24 | Not So Well | Low Quality | Below Average | Somewhat Dissatisfied |
| 4 | 3.25 - 4 | Not at all Well | Very Low Quality | Poor | Very Dissatisfied |

The Likert scale have statistical range of (1 – 1.74) for value 1. (1.75 - 2.49) for value 2. (2.5 - 3.24

) For value 3 and (3.25 - 4) for value 4.

The following table shows the statistical mean of the responses.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Necessity**  **(SOP4a)** | **Quality**  **(SOP 4b)** | **Price-Quality Ratio**  **(SOP 4c)** | **Approval**  **(SOP 4d)** |
| **Mean** | 1.36 | 1.43 | 2.15 | 1.49 |
|  | Extremely Well | Very High Quality | Above Average | Very Satisfied |
| **Overall Mean** | 1.61 |  |  |  |
| **Respondents** | 114 |  |  |  |

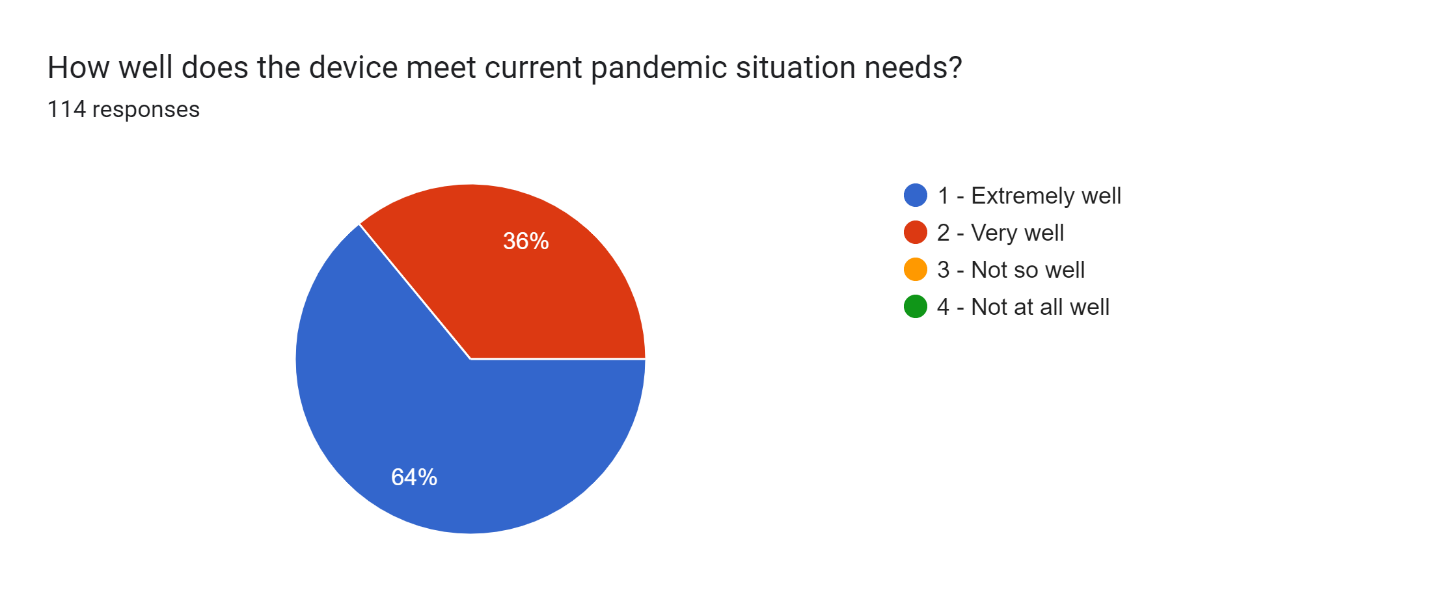
The statement of the problem 4a yields a response mean of 1.36 which falls in statistical range of 1 – 1.74. The responses declares that the automatic disinfection box meets current pandemic situation need extremely well thus rejecting null hypothesis 4a.

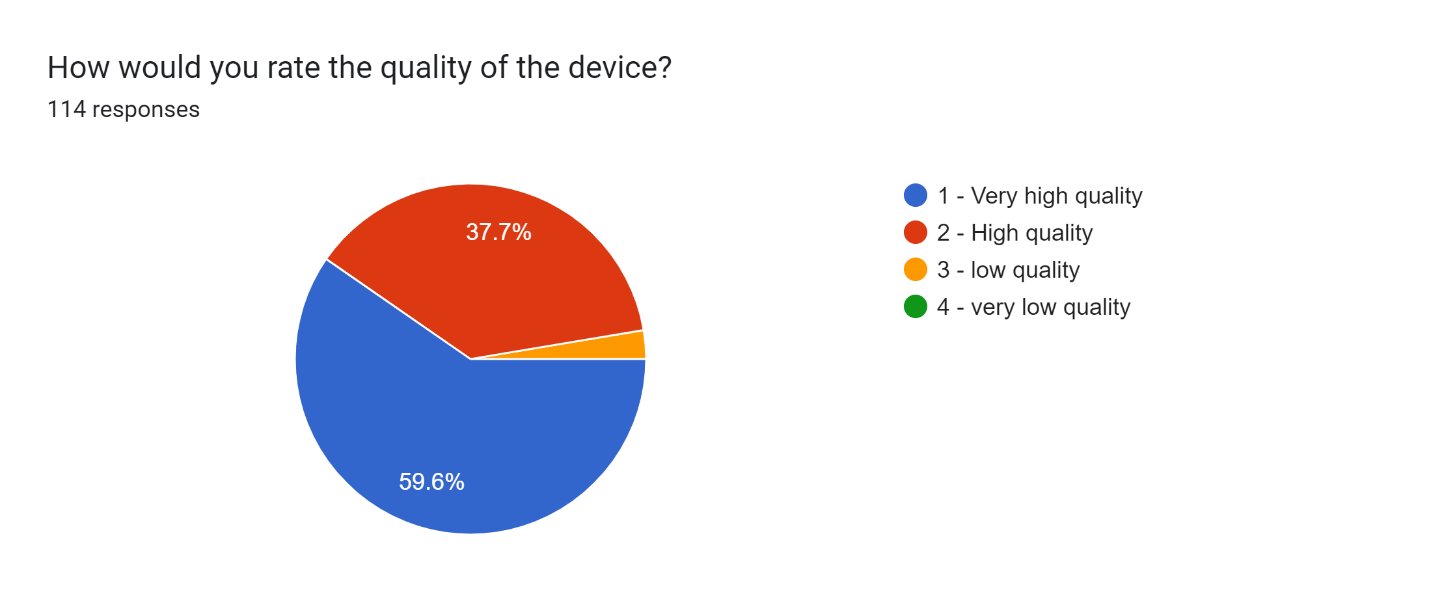
The statement of the problem 4b yields a response mean of 1.43 which falls in statistical range of 1 – 1.74. The responses declares that the automatic disinfection box is very high quality thus rejecting null hypothesis 4b.

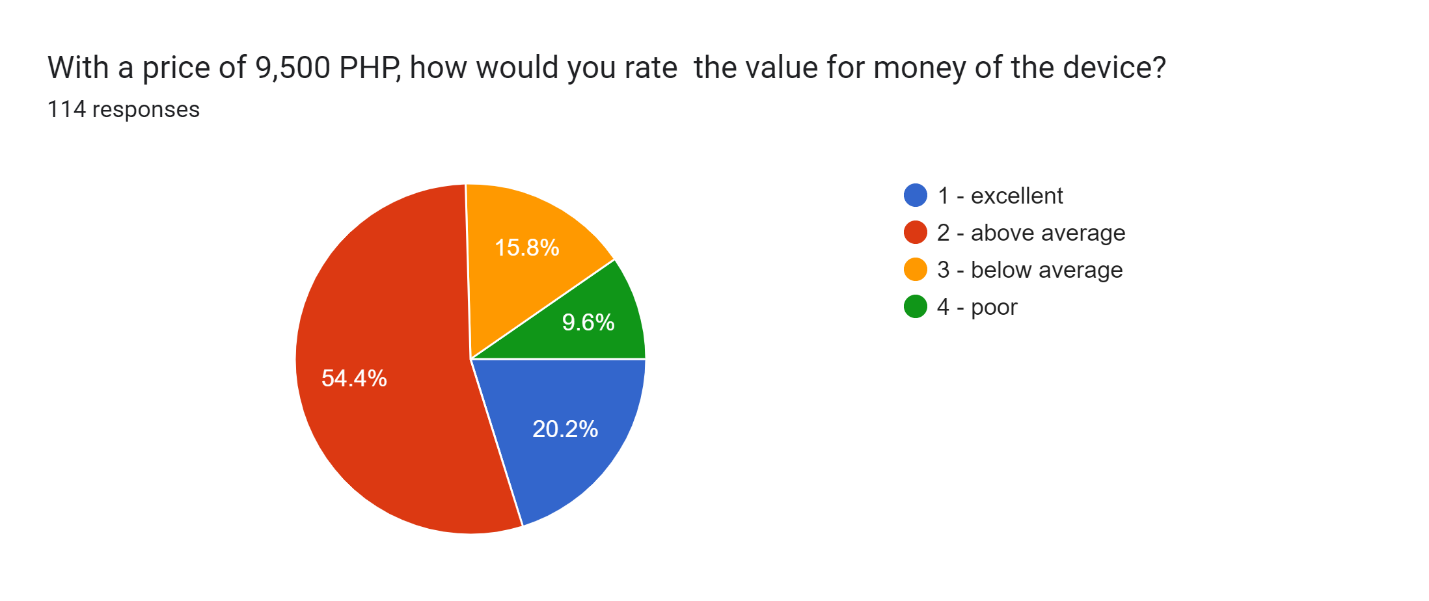
The statement of the problem 4c yields a response mean of 2.15 which falls in statistical range of 1.75 – 2.49. The responses declare with a price of 9,500 PHP, the value for money of the device is above average thus rejecting null hypothesis 4c.

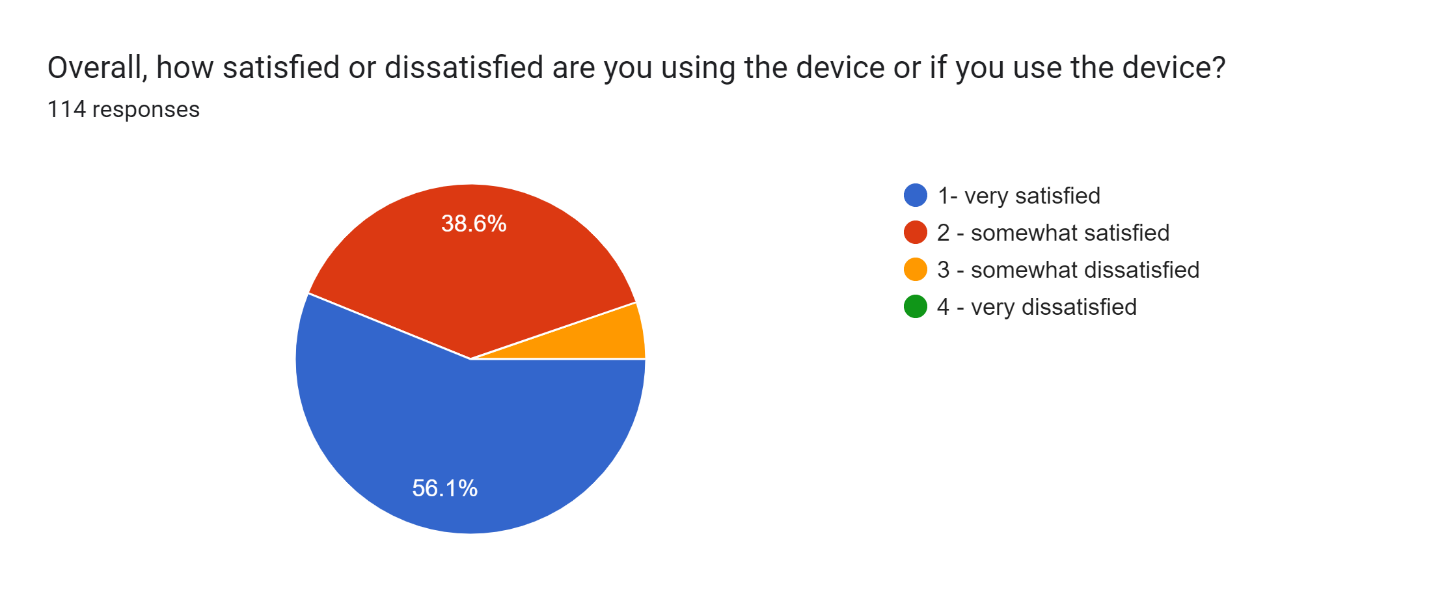
The statement of the problem 4d yields a response mean of 1.49 which falls in statistical range of 1 – 1.74. The responses declare that overall, respondents are very satisfied if they use and using the device thus rejecting null hypothesis.

The following pie graph shows the graphical representation of the responses.









Source:

QuestionPro (2022). Types of Sampling: Sampling Methods with Examples. Retrieved from <https://www.questionpro.com/blog/types-of-sampling-for-social-research/>

Jamieson S. (2022). Likert Scale. Retrieved from <https://www.britannica.com/topic/Likert-Scale>

Responses shows that the automatic disinfection meets current pandemic situation extremely well, has a very high quality, in terms of price has an above average value for money and the respondents are very satisfied using the device.