

# Report on the Exposure Calculation of:

Nokia Solutions and Networks  
AirScale and Flexi Multiradio Base Station  
Multiband Products, (Bands 1, 2, 3, 5, 8, 12, 13,  
14, 20, 25, 28, 29, 66, 66a, 70 and 71)

In accordance with EU, FCC, ISSED, AUS, NZ  
exposure requirements

Prepared for: Nokia Solutions and Networks  
Kaapelitie 4  
Oulu  
Finland



Add value.  
Inspire trust.

## COMMERCIAL-IN-CONFIDENCE

Document Number: 75940792-02 | Issue: 01

### SIGNATURE

| NAME        | JOB TITLE                     | RESPONSIBLE FOR      | ISSUE DATE   |
|-------------|-------------------------------|----------------------|--------------|
| Ryan Henley | Sales Manager RF and Telecoms | Authorised Signatory | 11 July 2019 |

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

### ENGINEERING STATEMENT

The calculations shown in this report were made in accordance with the procedures described in EU, FCC, ISSED, AUS & NZ exposure requirements.

### SIGNATURE

| NAME       | JOB TITLE            | RESPONSIBLE FOR | ISSUE DATE   |
|------------|----------------------|-----------------|--------------|
| Pete Dorey | Principal Consultant | Calculation     | 11 July 2019 |

FCC Accreditation

90987 Octagon House, Fareham Test Laboratory

Industry Canada Accreditation

IC2932B-1 Octagon House, Fareham Test Laboratory

### EXECUTIVE SUMMARY

The calculation of exposure for this product was found to be compliant at the distances stated in this report.

### DISCLAIMER AND COPYRIGHT

This non-binding report has been prepared by TÜV SÜD with all reasonable skill and care. The document is confidential to the potential Client and TÜV SÜD. No part of this document may be reproduced without the prior written approval of TÜV SÜD. © 2019 TÜV SÜD.

TÜV SÜD  
is a trading name of TÜV SÜD Ltd  
Registered in Scotland at East Kilbride,  
Glasgow G75 0QF, United Kingdom  
Registered number: SC215164

TÜV SÜD Ltd is a  
TÜV SÜD Group Company

Phone: +44 (0) 1489 558100  
Fax: +44 (0) 1489 558101  
[www.tuv-sud.co.uk](http://www.tuv-sud.co.uk)

TÜV SÜD  
Octagon House  
Concorde Way  
Fareham  
Hampshire PO15 5RL  
United Kingdom



Contents

**1        Report Summary .....2**

1.1      Report Modification Record.....2

1.2      Introduction.....2

1.3      Brief Summary of Results .....4

1.4      Product Information .....8

**2        Assessment Details ..... 13**

2.1      Assessment Method..... 13

2.2      Approach for Product Installation Compliance Calculation ..... 13

2.3      Combined Antenna Port RF Exposure Results..... 15

2.4      Limits ..... 40

2.5      Additional Product Installation Calculation Results ..... 42

2.6      Far Field Region Boundary Results ..... 44

2.7      Uncertainty ..... 45

**Annex A Exposure Requirements..... A.2**



# 1 Report Summary

## 1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

| Issue | Description of Change | Date of Issue |
|-------|-----------------------|---------------|
| 1     | First Issue           | 11 July 2019  |

**Table 1**

## 1.2 Introduction

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Objective                | To perform electromagnetic field exposure assessment to determine the equipment under test's (EUT's) compliance with the applied specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Applicant                | Nokia Solutions and Networks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Manufacturer             | Nokia Solutions and Networks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Model Number(s)          | Nokia AirScale and Flexi Multiradio Base Station Multiband Products, (Bands 1, 2, 3, 5, 8, 12, 13, 14, 20, 25, 28, 29, 66, 66a, 70 and 71)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Specification/Issue/Date | <ul style="list-style-type: none"><li>• EN 50385:2017 Product standard to demonstrate the compliance of base station equipment with radiofrequency electromagnetic field exposure limits (110 MHz - 100 GHz), when placed on the market</li><li>• FCC 47 CFR Part 1.1310: 2018</li><li>• ISED Canada: Health Canada Safety Code 6:2015</li><li>• Australia: ARPANSA Radiation Protection Series No.3:2002</li><li>• NZS 2772.1:1999 Radiofrequency fields, Maximum exposure levels, 3 kHz to 300 GHz</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Related Document(s)      | <ul style="list-style-type: none"><li>• EN 62232:2017 Determination of RF field strength, power density and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure</li><li>• Directive 2013/35/EU on minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents (electromagnetic fields).</li><li>• European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz), Official Journal, L199, of 1999-7-30, p.59-70.</li><li>• OET65:97 Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields</li><li>• IEEE C95.3:2002 IEEE Recommended Practice for Measurements and Computations of Radio Frequency Electromagnetic Fields with Respect to Human Exposure to Such Fields, 100 kHz–300 GHz</li></ul> |



- RSS-102 Issue 5 Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)
- AS/NZS 2772.2:2016 Radiofrequency fields, Part 2: principles and methods of measurement and computation, 3 kHz to 300 GHz



### 1.3 Brief Summary of Results

The wireless device described within this report was compliant with the restrictions related to human exposure to electromagnetic fields for both general public and worker/occupational exposures at the compliance distances calculated.

The calculations shown in this report were made in accordance with the procedures specified in the applied test specification(s).

#### 1.3.1 Compliance Boundary

| Exposure Requirement | Radio Configuration | Radio Access Technology                     | Calculated Compliance Boundary (m) (rounded up to nearest 0.1 m) |                |
|----------------------|---------------------|---------------------------------------------|------------------------------------------------------------------|----------------|
|                      |                     |                                             | Worker/Occupational                                              | General Public |
| EU                   | 1                   | LTE 3 bands, (B8/B20/B28)                   | 6.2                                                              | 13.4           |
| EU                   | 2                   | LTE 2 bands, (B1/B3)                        | 5.1                                                              | 11.3           |
| EU                   | 3                   | LTE 2 bands, (B66/B25)                      | 6.0                                                              | 13.3           |
| EU                   | 4                   | LTE 2 bands, (B66a/B25)                     | 4.3                                                              | 9.4            |
| EU                   | 5                   | LTE 2 bands, (B5/B13)                       | 7.0                                                              | 15.2           |
| EU                   | 6                   | LTE 2 bands, (B1/B3)                        | 5.9                                                              | 13.0           |
| EU                   | 7                   | LTE 2 bands, (B12/B14)                      | 7.4                                                              | 16.2           |
| EU                   | 8                   | LTE 2 bands, (B12/B71)                      | 6.7                                                              | 14.6           |
| EU                   | 9                   | LTE 2 bands, (B5/B13)                       | 5.0                                                              | 10.8           |
| EU                   | 10                  | LTE 2 bands, (B2/B66a)                      | 6.0                                                              | 13.3           |
| EU                   | 11                  | LTE 1 band, (B28)                           | 7.4                                                              | 16.0           |
| EU                   | 12                  | LTE 2 bands, (B29/B70)                      | 5.3                                                              | 11.5           |
| EU                   | 13                  | LTE 2 bands, (B25/B66)                      | 7.4                                                              | 16.2           |
| EU                   | 14                  | LTE 3 bands, (B12/B14/B29)                  | 8.1                                                              | 17.7           |
| EU                   | 15                  | LTE 2 bands, (B5/B28)                       | 7.1                                                              | 15.5           |
| EU                   | 16                  | LTE 2 bands, (B5/B29)                       | 6.6                                                              | 14.3           |
| EU                   | 17                  | LTE 2 bands, (B13/B71)                      | 6.5                                                              | 14.2           |
| EU                   | 18                  | LTE 3 bands, (B5/B8/B28)                    | 6.2                                                              | 13.4           |
| EU                   | 18a                 | LTE 3 bands, (B5/B8/B28) – Single B5 band   | 6.0                                                              | 13.0           |
| EU                   | 18b                 | LTE 3 bands, (B5/B8/B28) – Single B8 band   | 5.9                                                              | 12.9           |
| EU                   | 18c                 | LTE 3 bands, (B5/B8/B28) – Single B28 band  | 6.4                                                              | 13.9           |
| EU                   | 19                  | LTE 3 bands, (B8/B20/B28)                   | 6.6                                                              | 14.5           |
| EU                   | 19a                 | LTE 3 bands, (B8/B20/B28) – Single B8 band  | 6.4                                                              | 13.9           |
| EU                   | 19b                 | LTE 3 bands, (B8/B20/B28) – Single B20 band | 6.7                                                              | 14.7           |
| EU                   | 19c                 | LTE 3 bands, (B8/B20/B28) – Single B28 band | 6.9                                                              | 15.0           |
| FCC                  | 1                   | LTE 3 bands, (B8/B20/B28)                   | 5.3                                                              | 11.6           |



| Exposure Requirement | Radio Configuration | Radio Access Technology                     | Calculated Compliance Boundary (m) (rounded up to nearest 0.1 m) |                |
|----------------------|---------------------|---------------------------------------------|------------------------------------------------------------------|----------------|
|                      |                     |                                             | Worker/Occupational                                              | General Public |
| FCC                  | 2                   | LTE 2 bands, (B1/B3)                        | 4.9                                                              | 10.9           |
| FCC                  | 3                   | LTE 2 bands, (B66/B25)                      | 5.8                                                              | 13.0           |
| FCC                  | 4                   | LTE 2 bands, (B66a/B25)                     | 4.2                                                              | 9.2            |
| FCC                  | 5                   | LTE 2 bands, (B5/B13)                       | 5.9                                                              | 13.2           |
| FCC                  | 6                   | LTE 2 bands, (B1/B3)                        | 5.7                                                              | 12.6           |
| FCC                  | 7                   | LTE 2 bands, (B12/B14)                      | 6.3                                                              | 14.0           |
| FCC                  | 8                   | LTE 2 bands, (B12/B71)                      | 5.7                                                              | 12.7           |
| FCC                  | 9                   | LTE 2 bands, (B5/B13)                       | 4.2                                                              | 9.3            |
| FCC                  | 10                  | LTE 2 bands, (B2/B66a)                      | 5.8                                                              | 13.0           |
| FCC                  | 11                  | LTE 1 band, (B28)                           | 6.2                                                              | 13.9           |
| FCC                  | 12                  | LTE 2 bands, (B29/B70)                      | 4.8                                                              | 10.7           |
| FCC                  | 13                  | LTE 2 bands, (B25/B66)                      | 7.2                                                              | 15.9           |
| FCC                  | 14                  | LTE 3 bands, (B12/B14/B29)                  | 6.9                                                              | 15.3           |
| FCC                  | 15                  | LTE 2 bands, (B5/B28)                       | 6.0                                                              | 13.4           |
| FCC                  | 16                  | LTE 2 bands, (B5/B29)                       | 5.6                                                              | 12.4           |
| FCC                  | 17                  | LTE 2 bands, (B13/B71)                      | 5.5                                                              | 12.3           |
| FCC                  | 18                  | LTE 3 bands, (B5/B8/B28)                    | 5.2                                                              | 11.6           |
| FCC                  | 18a                 | LTE 3 bands, (B5/B8/B28) – Single B5 band   | 5.1                                                              | 11.2           |
| FCC                  | 18b                 | LTE 3 bands, (B5/B8/B28) – Single B8 band   | 5.0                                                              | 11.2           |
| FCC                  | 18c                 | LTE 3 bands, (B5/B8/B28) – Single B28 band  | 5.4                                                              | 12.0           |
| FCC                  | 19                  | LTE 3 bands, (B8/B20/B28)                   | 5.6                                                              | 12.5           |
| FCC                  | 19a                 | LTE 3 bands, (B8/B20/B28) – Single B8 band  | 5.4                                                              | 12.0           |
| FCC                  | 19b                 | LTE 3 bands, (B8/B20/B28) – Single B20 band | 5.7                                                              | 12.7           |
| FCC                  | 19c                 | LTE 3 bands, (B8/B20/B28) – Single B28 band | 5.8                                                              | 13.0           |
| CANADA               | 1                   | LTE 3 bands, (B8/B20/B28)                   | 6.4                                                              | 16.9           |
| CANADA               | 2                   | LTE 2 bands, (B1/B3)                        | 6.5                                                              | 16.0           |
| CANADA               | 3                   | LTE 2 bands, (B66/B25)                      | 7.7                                                              | 18.9           |
| CANADA               | 4                   | LTE 2 bands, (B66a/B25)                     | 5.4                                                              | 13.4           |
| CANADA               | 5                   | LTE 2 bands, (B5/B13)                       | 7.2                                                              | 19.1           |
| CANADA               | 6                   | LTE 2 bands, (B1/B3)                        | 7.5                                                              | 18.4           |
| CANADA               | 7                   | LTE 2 bands, (B12/B14)                      | 7.5                                                              | 20.1           |
| CANADA               | 8                   | LTE 2 bands, (B12/B71)                      | 6.6                                                              | 17.9           |
| CANADA               | 9                   | LTE 2 bands, (B5/B13)                       | 5.1                                                              | 13.6           |
| CANADA               | 10                  | LTE 2 bands, (B2/B66a)                      | 7.7                                                              | 18.9           |



| Exposure Requirement | Radio Configuration | Radio Access Technology                     | Calculated Compliance Boundary (m) (rounded up to nearest 0.1 m) |                |
|----------------------|---------------------|---------------------------------------------|------------------------------------------------------------------|----------------|
|                      |                     |                                             | Worker/Occupational                                              | General Public |
| CANADA               | 11                  | LTE 1 band, (B28)                           | 7.4                                                              | 20.0           |
| CANADA               | 12                  | LTE 2 bands, (B29/B70)                      | 6.0                                                              | 15.4           |
| CANADA               | 13                  | LTE 2 bands, (B25/B66)                      | 9.4                                                              | 23.2           |
| CANADA               | 14                  | LTE 3 bands, (B12/B14/B29)                  | 8.1                                                              | 21.9           |
| CANADA               | 15                  | LTE 2 bands, (B5/B28)                       | 7.3                                                              | 19.5           |
| CANADA               | 16                  | LTE 2 bands, (B5/B29)                       | 6.5                                                              | 17.7           |
| CANADA               | 17                  | LTE 2 bands, (B13/B71)                      | 6.4                                                              | 17.4           |
| CANADA               | 18                  | LTE 3 bands, (B5/B8/B28)                    | 6.4                                                              | 16.9           |
| CANADA               | 18a                 | LTE 3 bands, (B5/B8/B28) – Single B5 band   | 6.2                                                              | 16.5           |
| CANADA               | 18b                 | LTE 3 bands, (B5/B8/B28) – Single B8 band   | 6.3                                                              | 16.6           |
| CANADA               | 18c                 | LTE 3 bands, (B5/B8/B28) – Single B28 band  | 6.4                                                              | 17.3           |
| CANADA               | 19                  | LTE 3 bands, (B8/B20/B28)                   | 6.9                                                              | 18.3           |
| CANADA               | 19a                 | LTE 3 bands, (B8/B20/B28) – Single B8 band  | 6.8                                                              | 17.9           |
| CANADA               | 19b                 | LTE 3 bands, (B8/B20/B28) – Single B20 band | 6.9                                                              | 18.4           |
| CANADA               | 19c                 | LTE 3 bands, (B8/B20/B28) – Single B28 band | 7.0                                                              | 18.7           |
| AUSTRALIA            | 1                   | LTE 3 bands, (B8/B20/B28)                   | 6.0                                                              | 13.4           |
| AUSTRALIA            | 2                   | LTE 2 bands, (B1/B3)                        | 4.9                                                              | 11.2           |
| AUSTRALIA            | 3                   | LTE 2 bands, (B66/B25)                      | 5.9                                                              | 13.2           |
| AUSTRALIA            | 4                   | LTE 2 bands, (B66a/B25)                     | 4.2                                                              | 9.3            |
| AUSTRALIA            | 5                   | LTE 2 bands, (B5/B13)                       | 6.8                                                              | 15.2           |
| AUSTRALIA            | 6                   | LTE 2 bands, (B1/B3)                        | 5.8                                                              | 12.9           |
| AUSTRALIA            | 7                   | LTE 2 bands, (B12/B14)                      | 7.3                                                              | 16.2           |
| AUSTRALIA            | 8                   | LTE 2 bands, (B12/B71)                      | 6.6                                                              | 14.6           |
| AUSTRALIA            | 9                   | LTE 2 bands, (B5/B13)                       | 4.8                                                              | 10.8           |
| AUSTRALIA            | 10                  | LTE 2 bands, (B2/B66a)                      | 5.9                                                              | 13.2           |
| AUSTRALIA            | 11                  | LTE 1 band, (B28)                           | 7.2                                                              | 16.1           |
| AUSTRALIA            | 12                  | LTE 2 bands, (B29/B70)                      | 5.2                                                              | 11.5           |
| AUSTRALIA            | 13                  | LTE 2 bands, (B25/B66)                      | 7.2                                                              | 16.1           |
| AUSTRALIA            | 14                  | LTE 3 bands, (B12/B14/B29)                  | 7.9                                                              | 17.7           |
| AUSTRALIA            | 15                  | LTE 2 bands, (B5/B28)                       | 7.0                                                              | 15.5           |
| AUSTRALIA            | 16                  | LTE 2 bands, (B5/B29)                       | 6.4                                                              | 14.3           |
| AUSTRALIA            | 17                  | LTE 2 bands, (B13/B71)                      | 6.4                                                              | 14.3           |
| AUSTRALIA            | 18                  | LTE 3 bands, (B5/B8/B28)                    | 6.0                                                              | 13.4           |
| AUSTRALIA            | 18a                 | LTE 3 bands, (B5/B8/B28) – Single B5 band   | 5.8                                                              | 13.0           |



| Exposure Requirement | Radio Configuration | Radio Access Technology                     | Calculated Compliance Boundary (m) (rounded up to nearest 0.1 m) |                |
|----------------------|---------------------|---------------------------------------------|------------------------------------------------------------------|----------------|
|                      |                     |                                             | Worker/Occupational                                              | General Public |
| AUSTRALIA            | 18b                 | LTE 3 bands, (B5/B8/B28) – Single B8 band   | 5.8                                                              | 12.9           |
| AUSTRALIA            | 18c                 | LTE 3 bands, (B5/B8/B28) – Single B28 band  | 6.2                                                              | 13.9           |
| AUSTRALIA            | 19                  | LTE 3 bands, (B8/B20/B28)                   | 6.5                                                              | 14.5           |
| AUSTRALIA            | 19a                 | LTE 3 bands, (B8/B20/B28) – Single B8 band  | 6.2                                                              | 13.9           |
| AUSTRALIA            | 19b                 | LTE 3 bands, (B8/B20/B28) – Single B20 band | 6.6                                                              | 14.7           |
| AUSTRALIA            | 19c                 | LTE 3 bands, (B8/B20/B28) – Single B28 band | 6.7                                                              | 15.0           |
| NEW ZEALAND          | 1                   | LTE 3 bands, (B8/B20/B28)                   | 6.2                                                              | 13.4           |
| NEW ZEALAND          | 2                   | LTE 2 bands, (B1/B3)                        | 5.1                                                              | 11.2           |
| NEW ZEALAND          | 3                   | LTE 2 bands, (B66/B25)                      | 6.0                                                              | 13.2           |
| NEW ZEALAND          | 4                   | LTE 2 bands, (B66a/B25)                     | 4.2                                                              | 9.3            |
| NEW ZEALAND          | 5                   | LTE 2 bands, (B5/B13)                       | 7.0                                                              | 15.2           |
| NEW ZEALAND          | 6                   | LTE 2 bands, (B1/B3)                        | 5.9                                                              | 12.9           |
| NEW ZEALAND          | 7                   | LTE 2 bands, (B12/B14)                      | 7.4                                                              | 16.2           |
| NEW ZEALAND          | 8                   | LTE 2 bands, (B12/B71)                      | 6.7                                                              | 14.6           |
| NEW ZEALAND          | 9                   | LTE 2 bands, (B5/B13)                       | 5.0                                                              | 10.8           |
| NEW ZEALAND          | 10                  | LTE 2 bands, (B2/B66a)                      | 6.0                                                              | 13.2           |
| NEW ZEALAND          | 11                  | LTE 1 band, (B28)                           | 7.4                                                              | 16.0           |
| NEW ZEALAND          | 12                  | LTE 2 bands, (B29/B70)                      | 5.3                                                              | 11.5           |
| NEW ZEALAND          | 13                  | LTE 2 bands, (B25/B66)                      | 7.4                                                              | 16.1           |
| NEW ZEALAND          | 14                  | LTE 3 bands, (B12/B14/B29)                  | 8.1                                                              | 17.7           |
| NEW ZEALAND          | 15                  | LTE 2 bands, (B5/B28)                       | 7.1                                                              | 15.5           |
| NEW ZEALAND          | 16                  | LTE 2 bands, (B5/B29)                       | 6.6                                                              | 14.3           |
| NEW ZEALAND          | 17                  | LTE 2 bands, (B13/B71)                      | 6.5                                                              | 14.2           |
| NEW ZEALAND          | 18                  | LTE 3 bands, (B5/B8/B28)                    | 6.2                                                              | 13.4           |
| NEW                  | 18a                 | LTE 3 bands, (B5/B8/B28) –                  | 6.0                                                              | 13             |



| Exposure Requirement | Radio Configuration | Radio Access Technology                     | Calculated Compliance Boundary (m) (rounded up to nearest 0.1 m) |                |
|----------------------|---------------------|---------------------------------------------|------------------------------------------------------------------|----------------|
|                      |                     |                                             | Worker/Occupational                                              | General Public |
| ZEALAND              |                     | Single B5 band                              |                                                                  |                |
| NEW ZEALAND          | 18b                 | LTE 3 bands, (B5/B8/B28) – Single B8 band   | 5.9                                                              | 12.9           |
| NEW ZEALAND          | 18c                 | LTE 3 bands, (B5/B8/B28) – Single B28 band  | 6.4                                                              | 13.9           |
| NEW ZEALAND          | 19                  | LTE 3 bands, (B8/B20/B28)                   | 6.6                                                              | 14.5           |
| NEW ZEALAND          | 19a                 | LTE 3 bands, (B8/B20/B28) – Single B8 band  | 6.4                                                              | 13.9           |
| NEW ZEALAND          | 19b                 | LTE 3 bands, (B8/B20/B28) – Single B20 band | 6.7                                                              | 14.7           |
| NEW ZEALAND          | 19c                 | LTE 3 bands, (B8/B20/B28) – Single B28 band | 6.9                                                              | 15.0           |

**Table 2 – Compliance Boundary Calculation Results**

## 1.4 Product Information

### 1.4.1 Technical Description

Nokia AirScale and Flexi Multiradio Base Station Multiband Products, (Bands 1, 2, 3, 5, 8, 12, 13, 14, 20, 25, 28, 29, 66, 66a, 70 and 71). A full technical description can be found in the manufacturer's documentation.

### 1.4.2 Transmitter Description

The following radio access technologies and frequency bands are supported by the equipment under test. As a number of different antennas may be used in each band, the antenna listed is selected from Table 4 as the one with the highest gain to give worst case result.

| Radio Configuration No | Radio Access Technology                           | Antenna | Frequency Band                        | Minimum Frequency | Output Power | Duty Cycle |
|------------------------|---------------------------------------------------|---------|---------------------------------------|-------------------|--------------|------------|
|                        |                                                   |         | MHz                                   | MHz               | dBm          | %          |
| 1                      | LTE 3 bands, 4 Tx Antenna Connectors (B8/B20/B28) | 15      | Band 8 (925-960)                      | 925               | 50.79        | 100        |
|                        |                                                   | 23 / 28 | Band 20 (791-821) / Band 28 (758-803) | 758               | 50.79        | 100        |
| 2                      | LTE 2 bands, 2 TX antenna connectors (B1/B3)      | 4       | Band 1 (2110-2170)                    | 2110              | 50.79        | 100        |
|                        |                                                   | 12      | Band 3 (1805-1880)                    | 1805              | 50.79        | 100        |
| 3                      | LTE 2 bands, 4 TX antenna connectors (B66/B25)    | 27      | Band 25 (1930-1995)                   | 1930              | 52.04        | 100        |
|                        |                                                   | 35      | Band 66 (2110-2200)                   | 2110              | 52.04        | 100        |
| 4                      | LTE 2 bands, 4 TX antenna connectors (B66a/B25)   | 8       | Band 2 (1930-1990)                    | 1930              | 49.03        | 100        |
|                        |                                                   | 39      | Band 66a (2110-2180)                  | 2110              | 49.03        | 100        |
| 5                      | LTE 2 bands, 4 TX antenna connectors (B5/B13)     | 13      | Band 5 (869-894)                      | 869               | 52.04        | 100        |
|                        |                                                   | 18      | Band 13 (746-756)                     | 746               | 52.04        | 100        |
| 6                      | LTE 2 bands, 4 TX antenna connectors (B1/B3)      | 4       | Band 1 (2110-2170)                    | 2110              | 52.04        | 100        |
|                        |                                                   | 12      | Band 3 (1805-1880)                    | 1805              | 52.04        | 100        |
| 7                      | LTE 2 bands, 4 TX antenna                         | 16      | Band 12 (729-746)                     | 729               | 52.04        | 100        |



| Radio Configuration No | Radio Access Technology                                                           | Antenna      | Frequency Band                                            | Minimum Frequency | Output Power | Duty Cycle |
|------------------------|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------|-------------------|--------------|------------|
|                        |                                                                                   |              | MHz                                                       | MHz               | dBm          | %          |
|                        | connectors (B12/B14)                                                              | 20           | Band 14 (758-768)                                         | 758               | 52.04        | 100        |
| 8                      | LTE 2 bands, 4 TX antenna connectors (B12/B71)                                    | 16           | Band 12 (729-746)                                         | 729               | 50.79        | 100        |
|                        |                                                                                   | 44           | Band 71 (617-652)                                         | 617               | 50.79        | 100        |
| 9                      | LTE 2 bands, 4 TX antenna connectors (B5/B13)                                     | 13           | Band 5 (869-894)                                          | 869               | 49.03        | 100        |
|                        |                                                                                   | 18           | Band 13 (746-756)                                         | 746               | 49.03        | 100        |
| 10                     | LTE 2 bands, 8 TX antenna connectors (four connectors per band) (B2/B66a)         | 8            | Band 2 (1930-1990)                                        | 1930              | 52.04        | 100        |
|                        |                                                                                   | 39           | Band 66a (2110-2180)                                      | 2110              | 52.04        | 100        |
| 11                     | LTE 1 band, 4 TX antenna connectors (B28)                                         | 28           | Band 28 (758-803)                                         | 758               | 55.05        | 100        |
| 12                     | LTE 2 bands, 4TX antenna connectors (two dedicated connectors per band) (B29/B70) | 31           | Band 29 (717-728)                                         | 717               | 49.03        | 100        |
|                        |                                                                                   | 43           | Band 70 (1995-2020)                                       | 1995              | 50.79        | 100        |
| 13                     | LTE 2 bands, 4TX antenna connectors (two dedicated connectors per band) (B25/B66) | 27           | Band 25 (1930-1995)                                       | 1930              | 55.05        | 100        |
|                        |                                                                                   | 35           | Band 66 (2110-2200)                                       | 2110              | 52.04        | 100        |
| 14                     | LTE 3 bands, 4 Tx Antenna Connectors (B12/B14/B29)                                | 16 / 20 / 31 | Band 12 (729-746) / Band 14 (758-768) / Band 29 (717-728) | 717               | 53.22        | 100        |
|                        |                                                                                   | 16           | Band 12 (729-746) / Band 14 (758-768) /                   | 729               | 52.04        | 100        |
| 15                     | LTE 2 bands, 4 Tx Antenna connectors (B5/B28)                                     | 13           | Band 5 (869-894)                                          | 869               | 52.04        | 100        |
|                        |                                                                                   | 28           | Band 28 (758-803)                                         | 758               | 52.04        | 100        |
| 16                     | LTE 2 bands, 4 Tx Antenna connectors (B5/B29)                                     | 13 / 31      | Band 5 (869-894) / Band 29 (717-728)                      | 717               | 52.04        | 100        |
|                        |                                                                                   | 31           | Band 29 (717-728)                                         | 717               | 49.03        | 100        |
| 17                     | LTE 2 bands, 4 Tx Antenna connectors (B13/B71)                                    | 18           | Band 13 (746-756)                                         | 746               | 50.79        | 100        |
|                        |                                                                                   | 44           | Band 71 (617-652)                                         | 617               | 50.79        | 100        |
| 18                     | LTE 3 bands, 2 Tx Antenna Connectors (B5/B8/B28)                                  | 13 / 28      | Band 5 (869-894) / Band 28 (758-803)                      | 758               | 50.79        | 100        |
|                        |                                                                                   | 15           | Band 8 (925-960)                                          | 925               | 50.79        | 100        |
| 18a                    | LTE 3 bands, 2 Tx Antenna Connectors (B5/B8/B28) – Single B5 band                 | 13           | Band 5 (869-894)                                          | 869               | 53.80        | 100        |
| 18b                    | LTE 3 bands, 2 Tx Antenna Connectors (B5/B8/B28) – Single B8 band                 | 15           | Band 8 (925-960)                                          | 925               | 53.80        | 100        |
| 18c                    | LTE 3 bands, 2 Tx Antenna Connectors (B5/B8/B28) – Single B28 band                | 28           | Band 28 (758-803)                                         | 758               | 53.80        | 100        |
| 19                     | LTE 3 bands, 2 Tx Antenna Connectors (B8/B20/B28)                                 | 15           | Band 8 (925-960)                                          | 925               | 51.46        | 100        |
|                        |                                                                                   | 23 / 28      | Band 20 (791-821) / Band 28 (758-803)                     | 758               | 51.46        | 100        |
| 19a                    | LTE 3 bands, 2 Tx Antenna Connectors (B8/B20/B28) – Single B8 band                | 15           | Band 8 (925-960)                                          | 925               | 54.47        | 100        |
| 19b                    | LTE 3 bands, 2 Tx Antenna Connectors (B8/B20/B28) – Single B20 band               | 23           | Band 20 (791-821)                                         | 791               | 54.47        | 100        |
| 19c                    | LTE 3 bands, 2 Tx Antenna Connectors (B8/B20/B28) – Single B28 band               | 28           | Band 28 (758-803)                                         | 758               | 54.47        | 100        |

**Table 3 – Transmitter Description**



### 1.4.3 Antenna Description

The following antennas are supported by the equipment under test.

| Antenna No | Radio Access Technology | Frequency band (MHz) | Antenna Model     | Gain            | Antenna length |
|------------|-------------------------|----------------------|-------------------|-----------------|----------------|
|            |                         |                      |                   | dBi             | cm             |
| 1          | LTE Band 1              | 2110-2170            | 80011867 (Y1)     | 17.6±0.4 =18.0  | 149.90         |
| 2          |                         |                      | 80011867 (Y2)     | 17.9±0.3 =18.2  | 149.90         |
| 3          |                         |                      | 84010564 (Y1, Y2) | 14.0±0.4 =14.4  | 61.00          |
| 4          |                         |                      | 80010621v02       | 18.2            | 145.20         |
| 5          | LTE Band 2              | 1930-1990            | 80011867 (Y1)     | 17.9±0.3 =18.2  | 149.90         |
| 6          |                         |                      | 80011867 (Y2)     | 17.9±0.3 =18.2  | 149.90         |
| 7          |                         |                      | 84010564 (Y1, Y2) | 14.0±0.4 =14.4  | 61.00          |
| 8          |                         |                      | 80010621v02       | 18.2            | 145.20         |
| 9          | LTE Band 3              | 1805-1880            | 80011867 (Y1)     | 17.1±0.5 =17.6  | 149.90         |
| 10         |                         |                      | 80011867 (Y2)     | 17.3±0.3 =17.6  | 149.90         |
| 11         |                         |                      | 84010564 (Y1, Y2) | 13.1±0.4 =13.5  | 61.00          |
| 12         |                         |                      | 80010621v02       | 17.6            | 145.20         |
| 13         | LTE Band 5              | 869-894              | 80010901 (R1, R2) | 15.6±0.2 =15.8  | 199.90         |
| 14         | LTE Band 8              | 925-960              | 80011867 (R2)     | 14.8±0.4 =15.2  | 149.90         |
| 15         |                         |                      | 80010901 (R1, R2) | 15.8±0.2 =16.0  | 199.90         |
| 16         | LTE Band 12             | 729-746              | FF-65C-R1         | 15.3 ±0.5 =15.8 | 243.70         |
| 17         |                         |                      | 80011867 (R1, R2) | 14.0±0.4 =14.4  | 149.90         |
| 18         | LTE Band 13             | 746-756              | 80010901 (R1, R2) | 14.8±0.6 =15.4  | 199.90         |
| 19         |                         |                      | 80011867 (R1, R2) | 14.0±0.4 =14.4  | 149.90         |
| 20         | LTE Band 14             | 758-768              | FF-65C-R1         | 15.3 ±0.5 =15.8 | 243.70         |
| 21         |                         |                      | 80011867 (R1, R2) | 14.0±0.4 =14.4  | 149.90         |
| 22         |                         |                      | 80010901 (R1, R2) | 14.8±0.6 =15.4  | 199.90         |
| 23         | LTE Band 20             | 791-821              | 80010901 (R1, R2) | 15.4±0.4 =15.8  | 199.90         |
| 24         | LTE Band 25             | 1930-1995            | 80011867 (Y1)     | 17.6±0.4 =18.0  | 149.90         |
| 25         |                         |                      | 80011867 (Y2)     | 17.9±0.3 =18.2  | 149.90         |
| 26         |                         |                      | 84010564 (Y1, Y2) | 14.0±0.4 =14.4  | 61.00          |
| 27         |                         |                      | 80010621v02       | 18.2            | 145.20         |
| 28         | LTE Band 28             | 758-803              | FF-65C-R1         | 15.3 ±0.5 =15.8 | 243.70         |
| 29         |                         |                      | 80011867 (R1, R2) | 14.0±0.4 =14.4  | 149.90         |
| 30         |                         |                      | 80010901 (R1, R2) | 14.8±0.6 =15.4  | 199.90         |
| 31         | LTE Band 29             | 717-728              | FF-65C-R1         | 15.3 ±0.5 =15.8 | 243.70         |
| 32         |                         |                      | 80011867 (R1, R2) | 14.0±0.4 =14.4  | 149.90         |
| 33         |                         |                      | 80010901 (R1, R2) | 14.8±0.6 =15.4  | 199.90         |
| 34         | LTE Band 66             | 2110-2200            | 84010564 (Y1, Y2) | 14.0±0.4 =14.4  | 61.00          |
| 35         |                         |                      | 80010621v02       | 18.2            | 145.20         |



| Antenna No | Radio Access Technology | Frequency band (MHz) | Antenna Model     | Gain            | Antenna length |
|------------|-------------------------|----------------------|-------------------|-----------------|----------------|
|            |                         |                      |                   | dBi             | cm             |
| 36         | LTE Band 66a            | 2110-2180            | 80011867 (Y1)     | 17.6±0.4 =18.0  | 149.90         |
| 37         |                         |                      | 80011867 (Y2)     | 17.9±0.3 =18.2  | 149.90         |
| 38         |                         |                      | 84010564 (Y1, Y2) | 14.0±0.4 =14.4  | 61.00          |
| 39         |                         |                      | 80010621v02       | 18.2            | 145.20         |
| 40         | LTE Band 70             | 1995-2020            | 80011867 (Y1)     | 17.6±0.4 =18.0  | 149.90         |
| 41         |                         |                      | 80011867 (Y2)     | 17.9±0.3 =18.2  | 149.90         |
| 42         |                         |                      | 84010564 (Y1, Y2) | 14.0±0.4 =14.4  | 61.00          |
| 43         |                         |                      | 80010621v02       | 18.2            | 145.20         |
| 44         | LTE Band 71             | 617-652              | FF-65C-R1         | 15.0 ±0.6 =15.6 | 243.70         |

**Table 4 – Antenna description**

Note: For each base station band, the highlighted antenna with the maximum gain was used in the calculation to provide worst case result.



#### 1.4.4 Additional Antenna Data

The following additional antenna data is required to calculate the EU product installation compliance results in accordance with EN 62232:2017 Table 2.

| Main Parameter                                                             | Detailed Parameter                                          | Antenna No |         |         |                   |                   |                   |                   |                   |
|----------------------------------------------------------------------------|-------------------------------------------------------------|------------|---------|---------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                                                            |                                                             | 4          | 8       | 12      | 13                | 15                | 16                | 18                | 20                |
| Side Lobe Suppression                                                      | Manufacturers sidelobe level dB                             | 18         | 18      | 18      | 15                | 14                | 17                | 14                | 17                |
|                                                                            | A <sub>sl</sub> side lobe suppression value in linear scale | 0.01585    | 0.01585 | 0.01585 | 0.03162           | 0.03981           | 0.01995           | 0.03981           | 0.01995           |
| Tilt                                                                       | Manufacturer's electric tilt °                              | 2-14       | 2-14    | 2-14    | 2-12              | 2-12              | 2-13              | 2-12              | 2-13              |
|                                                                            | Manufacturer's mechanical tilt °                            | 0-15       | 0-15    | 0-15    | 0-14              | 0-14              | 0-10 <sup>1</sup> | 0-14              | 0-10 <sup>1</sup> |
|                                                                            | α downtilt in radians                                       | 0.5061     | 0.5061  | 0.5061  | 0.4538            | 0.4538            | 0.4014            | 0.4538            | 0.4014            |
| Vertical Beamwidth                                                         | Manufacturer's half power width in vertical plane °         | 6.0        | 6.7     | 6.7     | 10.5±0.4<br>=10.9 | 10.2±0.4<br>=10.6 | 9.2±0.7<br>=9.9   | 11.9±0.8<br>=12.7 | 9.2±0.7<br>=9.9   |
|                                                                            | θ <sub>bw</sub> Vertical half power beamwidth in radians    | 0.1047     | 0.1169  | 0.1169  | 0.1902            | 0.1850            | 0.1728            | 0.2217            | 0.1728            |
| Note 1: Estimated as manufacturer does not specify a mechanical tilt range |                                                             |            |         |         |                   |                   |                   |                   |                   |

**Table 5 – Additional Antenna Data**

| Main Parameter                                                             | Detailed Parameter                                          | Antenna No        |         |                   |                   |         |         |         |                   |
|----------------------------------------------------------------------------|-------------------------------------------------------------|-------------------|---------|-------------------|-------------------|---------|---------|---------|-------------------|
|                                                                            |                                                             | 23                | 27      | 28                | 31                | 35      | 39      | 43      | 44                |
| Side Lobe Suppression                                                      | Manufacturers sidelobe level dB                             | 14                | 18      | 17                | 17                | 18      | 18      | 18      | 19                |
|                                                                            | A <sub>sl</sub> side lobe suppression value in linear scale | 0.03981           | 0.01585 | 0.01995           | 0.01995           | 0.01585 | 0.01585 | 0.01585 | 0.01259           |
| Tilt                                                                       | Manufacturer's electric tilt °                              | 2-12              | 2-14    | 2-13              | 2-13              | 2-14    | 2-14    | 2-14    | 2-13              |
|                                                                            | Manufacturer's mechanical tilt °                            | 0-14              | 0-15    | 0-10 <sup>1</sup> | 0-10 <sup>1</sup> | 0-15    | 0-15    | 0-15    | 0-10 <sup>1</sup> |
|                                                                            | α downtilt in radians                                       | 0.4538            | 0.5061  | 0.4014            | 0.4014            | 0.5061  | 0.5061  | 0.5061  | 0.4014            |
| Vertical Beamwidth                                                         | Manufacturer's half power width in vertical plane °         | 11.0±0.8<br>=11.8 | 6.0     | 9.2±0.7<br>=9.9   | 9.2±0.7<br>=9.9   | 6.0     | 6.0     | 6.0     | 10.3±0.6<br>=10.9 |
|                                                                            | θ <sub>bw</sub> Vertical half power beamwidth in radians    | 0.2059            | 0.1047  | 0.1728            | 0.1728            | 0.1047  | 0.1047  | 0.1047  | 0.1902            |
| Note 1: Estimated as manufacturer does not specify a mechanical tilt range |                                                             |                   |         |                   |                   |         |         |         |                   |

**Table 6 – Additional Antenna Data (continued)**

#### 1.4.5 Equipment Configuration

LTE basestations operating at maximum power in the bands specified in Table 3.



## 2 Assessment Details

### 2.1 Assessment Method

The assessment method is by calculation of the power density  $S$ , electric field strength  $E$ , magnetic field strength  $H$  or magnetic flux density  $B$ .

The calculation uses the spherical model applicable under far field conditions.

$$S = E \times H = \frac{E^2}{\eta} = H^2 \times \eta = \frac{P \times G_i}{4 \times \pi \times r^2}$$

Where:

$\eta$  - Impedance of free space (377 ohm in far field)

$P$  – Transmitter power  $W$

$G_i$  – Antenna gain ratio relative to isotropic

$R$  – Separation distance  $m$

The magnetic flux density is related to the magnetic field strength by a constant:

$$B = \mu_o \times H$$

Where:

$\mu_o$  – Permeability of free space  $4\pi \times 10^{-7} \text{ H/m}$

Where additional calculations are required by the exposure specifications these are detailed below.

The far field region boundary depends on the frequency and wavelength and also on the antenna dimension. The boundary of the far field region is calculated below to demonstrate the validity of using the spherical model.

### 2.2 Approach for Product Installation Compliance Calculation

EU, EN 62232:2017 specifies additional product installation calculation requirements in clause 6.2.4, extract below. This data is used by the network operator or entity putting the Base Station into service. The separation distance calculations  $D_m$  take ground reflection into account and EN 62232:2017 Table 2 Note b specifies a ground reflection factor of 1 (i.e. worst case full in-phase reflection). Additionally, the minimum height  $H_m$  is required to be calculated.

For frequencies between 100 MHz and 400 MHz:

$$H_m = \max \left\{ \begin{array}{l} 2 + \sqrt{\frac{EIRP \cdot A_{sl}}{2\pi}} \\ 2 + \sqrt{\frac{EIRP}{2\pi}} \sin(\alpha + 1.129\theta_{bw}) \end{array} \right. \quad D_m = \sqrt{\frac{EIRP}{2\pi}} \quad (6.1)$$

For frequencies between 400 MHz and 2 000 MHz:

$$H_m = \max \left\{ \begin{array}{l} 2 + \sqrt{\frac{EIRP \cdot 200 A_{sl}}{f\pi}} \\ 2 + \sqrt{\frac{200 \cdot EIRP}{f\pi}} \sin(\alpha + 1.129\theta_{bw}) \end{array} \right. \quad D_m = \sqrt{\frac{EIRP \cdot 200}{f\pi}} \quad (6.2)$$

For frequencies between 2 000 MHz and 100 000 MHz (i.e. 100 GHz):

$$H_m = \max \left\{ \begin{array}{l} 2 + \sqrt{\frac{EIRP \cdot A_{sl}}{10\pi}} \\ 2 + \sqrt{\frac{EIRP}{10\pi}} \sin(\alpha + 1.129\theta_{bw}) \end{array} \right. \quad D_m = \sqrt{\frac{EIRP}{10\pi}} \quad (6.3)$$

where:

- $f$  is the frequency of operation of the RBS in MHz;
- $A_{sl}$  is the side lobe suppression value in linear scale;
- $\alpha$  is the downtilt in radians (both electric and mechanic);
- $\theta_{bw}$  is the vertical half power beamwidth in radians.



## 2.3 Combined Antenna Port RF Exposure Results

The frequencies shown in the tables below have been chosen based on the lowest possible frequency that the EUT can transmit. A full list of the exposure requirements is shown in Annex A.

As the frequency of operation for each transmitter is not the same, in order to evaluate compliance with the limit which is dependent on frequency, the fractional exposure value is calculated: The calculated S power density is divided by the limit to get a fractional exposure value. The calculated E and H fields are divided by the limit and squared to get a fractional exposure value. The summation of the fractional RF exposure results for each transmitter provides the combined result. Any values less than one are compliant with the limit. The compliance boundary distance has been calculated to ensure the summation is  $\leq 1$ .

### 2.3.1 EU Result

EU EN 62232 specifies the method of summation in clause Annex B.6 with results as follows:

| Radio Config | RAT                       | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|---------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                           |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                           |                                       |                 |                       | Summation for simultaneous exposure; value to be $< 1$                         |         |         |         |
| 1            | LTE 3 bands, (B8/B20/B28) | Band 8 (925-960)                      | 925             |                       | N/A                                                                            | 0.4477  | N/A     | 0.4476  |
|              |                           | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | N/A                                                                            | 0.5217  | N/A     | 0.5217  |
|              |                           | Summation at boundary                 |                 | 6.2                   | N/A                                                                            | 0.9694  | N/A     | 0.9693  |
| 2            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | N/A                                                                            | 0.4664  | N/A     | 0.5015  |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | N/A                                                                            | 0.4901  | N/A     | 0.4900  |
|              |                           | Summation at boundary                 |                 | 5.1                   | N/A                                                                            | 0.9564  | N/A     | 0.9916  |
| 3            | LTE 2 bands, (B66/B25)    | Band 25 (1930-1995)                   | 1930            |                       | N/A                                                                            | 0.5070  | N/A     | 0.5070  |
|              |                           | Band 66 (2110-2200)                   | 2110            |                       | N/A                                                                            | 0.4493  | N/A     | 0.4832  |
|              |                           | Summation at boundary                 |                 | 6.0                   | N/A                                                                            | 0.9563  | N/A     | 0.9902  |
| 4            | LTE 2 bands, (B66a/B25)   | Band 2 (1930-1990)                    | 1930            |                       | N/A                                                                            | 0.4936  | N/A     | 0.4936  |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | N/A                                                                            | 0.4374  | N/A     | 0.4704  |
|              |                           | Summation at boundary                 |                 | 4.3                   | N/A                                                                            | 0.9311  | N/A     | 0.9640  |
| 5            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | N/A                                                                            | 0.4761  | N/A     | 0.4760  |
|              |                           | Band 13 (746-756)                     | 746             |                       | N/A                                                                            | 0.5058  | N/A     | 0.5057  |
|              |                           | Summation at boundary                 |                 | 7.0                   | N/A                                                                            | 0.9818  | N/A     | 0.9818  |
| 6            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | N/A                                                                            | 0.4647  | N/A     | 0.4997  |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | N/A                                                                            | 0.4883  | N/A     | 0.4883  |
|              |                           | Summation at boundary                 |                 | 5.9                   | N/A                                                                            | 0.9530  | N/A     | 0.9880  |
| 7            | LTE 2 bands, (B12/B14)    | Band 12 (729-746)                     | 729             |                       | N/A                                                                            | 0.5078  | N/A     | 0.5078  |
|              |                           | Band 14 (758-768)                     | 758             |                       | N/A                                                                            | 0.4884  | N/A     | 0.4883  |
|              |                           | Summation at boundary                 |                 | 7.4                   | N/A                                                                            | 0.9962  | N/A     | 0.9961  |
| 8            | LTE 2 bands,              | Band 12 (729-746)                     | 729             |                       | N/A                                                                            | 0.4645  | N/A     | 0.4645  |



| Radio Config | RAT                        | Bands                                                     | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|----------------------------|-----------------------------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                            |                                                           |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                            |                                                           |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
|              | (B12/B71)                  | Band 71 (617-652)                                         | 617             |                       | N/A                                                                            | 0.5241  | N/A     | 0.5241  |
|              |                            | Summation at boundary                                     |                 | 6.7                   | N/A                                                                            | 0.9887  | N/A     | 0.9886  |
|              |                            |                                                           |                 |                       |                                                                                |         |         |         |
| 9            | LTE 2 bands, (B5/B13)      | Band 5 (869-894)                                          | 869             |                       | N/A                                                                            | 0.4666  | N/A     | 0.4665  |
|              |                            | Band 13 (746-756)                                         | 746             |                       | N/A                                                                            | 0.4957  | N/A     | 0.4956  |
|              |                            | Summation at boundary                                     |                 | 5.0                   | N/A                                                                            | 0.9623  | N/A     | 0.9622  |
| 10           | LTE 2 bands, (B2/B66a)     | Band 2 (1930-1990)                                        | 1930            |                       | N/A                                                                            | 0.5070  | N/A     | 0.5070  |
|              |                            | Band 66a (2110-2180)                                      | 2110            |                       | N/A                                                                            | 0.4493  | N/A     | 0.4832  |
|              |                            | Summation at boundary                                     |                 | 6.0                   | N/A                                                                            | 0.9563  | N/A     | 0.9902  |
| 11           | LTE 1 band, (B28)          | Band 28 (758-803)                                         | 758             |                       | N/A                                                                            | 0.9767  | N/A     | 0.9766  |
|              |                            | Summation at boundary                                     |                 | 7.4                   | N/A                                                                            | 0.9767  | N/A     | 0.9766  |
| 12           | LTE 2 bands, (B29/B70)     | Band 29 (717-728)                                         | 717             |                       | N/A                                                                            | 0.5033  | N/A     | 0.5032  |
|              |                            | Band 70 (1995-2020)                                       | 1995            |                       | N/A                                                                            | 0.4714  | N/A     | 0.4714  |
|              |                            | Summation at boundary                                     |                 | 5.3                   | N/A                                                                            | 0.9747  | N/A     | 0.9746  |
| 13           | LTE 2 bands, (B25/B66)     | Band 25 (1930-1995)                                       | 1930            |                       | N/A                                                                            | 0.6666  | N/A     | 0.6665  |
|              |                            | Band 66 (2110-2200)                                       | 2110            |                       | N/A                                                                            | 0.2954  | N/A     | 0.3177  |
|              |                            | Summation at boundary                                     |                 | 7.4                   | N/A                                                                            | 0.9620  | N/A     | 0.9842  |
| 14           | LTE 3 bands, (B12/B14/B29) | Band 12 (729-746) / Band 14 (758-768) / Band 29 (717-728) | 717             |                       | N/A                                                                            | 0.5654  | N/A     | 0.5654  |
|              |                            | Band 12 (729-746) / Band 14 (758-768) /                   | 729             |                       | N/A                                                                            | 0.4238  | N/A     | 0.4238  |
|              |                            | Summation at boundary                                     |                 | 8.1                   | N/A                                                                            | 0.9893  | N/A     | 0.9892  |
| 15           | LTE 2 bands, (B5/B28)      | Band 5 (869-894)                                          | 869             |                       | N/A                                                                            | 0.4627  | N/A     | 0.4627  |
|              |                            | Band 28 (758-803)                                         | 758             |                       | N/A                                                                            | 0.5305  | N/A     | 0.5305  |
|              |                            | Summation at boundary                                     |                 | 7.1                   | N/A                                                                            | 0.9933  | N/A     | 0.9932  |
| 16           | LTE 2 bands, (B5/B29)      | Band 5 (869-894) / Band 29 (717-728)                      | 717             |                       | N/A                                                                            | 0.6490  | N/A     | 0.6490  |
|              |                            | Band 29 (717-728)                                         | 717             |                       | N/A                                                                            | 0.3245  | N/A     | 0.3245  |
|              |                            | Summation at boundary                                     |                 | 6.6                   | N/A                                                                            | 0.9736  | N/A     | 0.9735  |
| 17           | LTE 2 bands, (B13/B71)     | Band 13 (746-756)                                         | 746             |                       | N/A                                                                            | 0.4399  | N/A     | 0.4398  |
|              |                            | Band 71 (617-652)                                         | 617             |                       | N/A                                                                            | 0.5569  | N/A     | 0.5569  |
|              |                            | Summation at boundary                                     |                 | 6.5                   | N/A                                                                            | 0.9967  | N/A     | 0.9967  |
| 18           | LTE 3 bands, (B5/B8/B28)   | Band 5 (869-894) / Band 28 (758-803)                      | 758             |                       | N/A                                                                            | 0.5217  | N/A     | 0.5217  |
|              |                            | Band 8 (925-960)                                          | 925             |                       | N/A                                                                            | 0.4477  | N/A     | 0.4476  |
|              |                            | Summation at boundary                                     |                 | 6.2                   | N/A                                                                            | 0.9694  | N/A     | 0.9693  |
| 18a          | LTE 3 bands,               | Band 5 (869-894)                                          | 869             |                       | N/A                                                                            | 0.9718  | N/A     | 0.9717  |



| Radio Config | RAT                                        | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|--------------------------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                            |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                            |                                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
|              | (B5/B8/B28) – Single B5 band               | Summation at boundary                 |                 | 6.0                   | N/A                                                                            | 0.9718  | N/A     | 0.9717  |
| 18b          | LTE 3 bands, (B5/B8/B28) – Single B8 band  | Band 8 (925-960)                      | 925             |                       | N/A                                                                            | 0.9886  | N/A     | 0.9886  |
|              |                                            | Summation at boundary                 |                 | 5.9                   | N/A                                                                            | 0.9886  | N/A     | 0.9886  |
| 18c          | LTE 3 bands, (B5/B8/B28) – Single B28 band | Band 28 (758-803)                     | 758             |                       | N/A                                                                            | 0.9792  | N/A     | 0.9791  |
|              |                                            | Summation at boundary                 |                 | 6.4                   | N/A                                                                            | 0.9792  | N/A     | 0.9791  |
| 19           | LTE 3 bands, (B8/B20/B28)                  | Band 8 (925-960)                      | 925             |                       | N/A                                                                            | 0.4609  | N/A     | 0.4609  |
|              |                                            | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | N/A                                                                            | 0.5372  | N/A     | 0.5372  |
|              |                                            | Summation at boundary                 |                 | 6.6                   | N/A                                                                            | 0.9981  | N/A     | 0.9981  |
| 19a          | LTE 3 bands, (B8/B20/B28) Single B8 band   | Band 8 (925-960)                      | 925             |                       | N/A                                                                            | 0.9803  | N/A     | 0.9803  |
|              |                                            | Summation at boundary                 |                 | 6.4                   | N/A                                                                            | 0.9803  | N/A     | 0.9803  |
| 19b          | LTE 3 bands, (B8/B20/B28) Single B20 band  | Band 20 (791-821)                     | 791             |                       | N/A                                                                            | 0.9990  | N/A     | 0.9989  |
|              |                                            | Summation at boundary                 |                 | 6.7                   | N/A                                                                            | 0.9990  | N/A     | 0.9989  |
| 19c          | LTE 3 bands, (B8/B20/B28) Single B28 band  | Band 28 (758-803)                     | 758             |                       | N/A                                                                            | 0.9829  | N/A     | 0.9828  |
|              |                                            | Summation at boundary                 |                 | 6.9                   | N/A                                                                            | 0.9829  | N/A     | 0.9828  |

**Table 7 – EU Worker/Occupational Combined Exposure**

The calculations show that the EUT complies with the worker/occupational exposure levels described in in the listed specifications in Annex A at the compliance boundary shown in the table.



| Radio Config | RAT                       | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|---------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                           |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                           |                                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 1            | LTE 3 bands, (B8/B20/B28) | Band 8 (925-960)                      | 925             |                       | 0.4576                                                                         | 0.4562  | 0.4433  | 0.4529  |
|              |                           | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | 0.5333                                                                         | 0.5317  | 0.5166  | 0.5278  |
|              |                           | Summation at boundary                 |                 | 13.4                  | 0.9908                                                                         | 0.9879  | 0.9599  | 0.9807  |
| 2            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | 0.4939                                                                         | 0.5004  | 0.5118  | 0.5172  |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | 0.4766                                                                         | 0.4752  | 0.4618  | 0.4717  |
|              |                           | Summation at boundary                 |                 | 11.3                  | 0.9705                                                                         | 0.9756  | 0.9735  | 0.9889  |
| 3            | LTE 2 bands, (B66/B25)    | Band 25 (1930-1995)                   | 1930            |                       | 0.4927                                                                         | 0.4912  | 0.4773  | 0.4876  |
|              |                           | Band 66 (2110-2200)                   | 2110            |                       | 0.4754                                                                         | 0.4817  | 0.4926  | 0.4978  |
|              |                           | Summation at boundary                 |                 | 13.3                  | 0.9681                                                                         | 0.9729  | 0.9699  | 0.9855  |
| 4            | LTE 2 bands, (B66a/B25)   | Band 2 (1930-1990)                    | 1930            |                       | 0.4932                                                                         | 0.4917  | 0.4778  | 0.4881  |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | 0.4759                                                                         | 0.4822  | 0.4931  | 0.4984  |
|              |                           | Summation at boundary                 |                 | 9.4                   | 0.9691                                                                         | 0.9739  | 0.9709  | 0.9865  |
| 5            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | 0.4821                                                                         | 0.4806  | 0.4670  | 0.4771  |
|              |                           | Band 13 (746-756)                     | 746             |                       | 0.5121                                                                         | 0.5106  | 0.4962  | 0.5069  |
|              |                           | Summation at boundary                 |                 | 15.2                  | 0.9942                                                                         | 0.9912  | 0.9632  | 0.9840  |
| 6            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | 0.4976                                                                         | 0.5042  | 0.5156  | 0.5211  |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | 0.4802                                                                         | 0.4788  | 0.4653  | 0.4753  |
|              |                           | Summation at boundary                 |                 | 13                    | 0.9779                                                                         | 0.9830  | 0.9809  | 0.9964  |
| 7            | LTE 2 bands, (B12/B14)    | Band 12 (729-746)                     | 729             |                       | 0.5059                                                                         | 0.5044  | 0.4901  | 0.5007  |
|              |                           | Band 14 (758-768)                     | 758             |                       | 0.4865                                                                         | 0.4851  | 0.4714  | 0.4815  |
|              |                           | Summation at boundary                 |                 | 16.2                  | 0.9924                                                                         | 0.9895  | 0.9615  | 0.9822  |
| 8            | LTE 2 bands, (B12/B71)    | Band 12 (729-746)                     | 729             |                       | 0.4671                                                                         | 0.4657  | 0.4525  | 0.4623  |
|              |                           | Band 71 (617-652)                     | 617             |                       | 0.5270                                                                         | 0.5254  | 0.5106  | 0.5216  |
|              |                           | Summation at boundary                 |                 | 14.6                  | 0.9941                                                                         | 0.9911  | 0.9631  | 0.9839  |
| 9            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | 0.4775                                                                         | 0.4760  | 0.4626  | 0.4726  |
|              |                           | Band 13 (746-756)                     | 746             |                       | 0.5073                                                                         | 0.5057  | 0.4914  | 0.5021  |
|              |                           | Summation at boundary                 |                 | 10.8                  | 0.9847                                                                         | 0.9818  | 0.9540  | 0.9746  |
| 10           | LTE 2 bands, (B2/B66a)    | Band 2 (1930-1990)                    | 1930            |                       | 0.4927                                                                         | 0.4912  | 0.4773  | 0.4876  |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | 0.4754                                                                         | 0.4817  | 0.4926  | 0.4978  |
|              |                           | Summation at boundary                 |                 | 13.3                  | 0.9681                                                                         | 0.9729  | 0.9699  | 0.9855  |
| 11           | LTE 1 band, (B28)         | Band 28 (758-803)                     | 758             |                       | 0.9975                                                                         | 0.9945  | 0.9664  | 0.9873  |
|              |                           | Summation at boundary                 |                 | 16.0                  | 0.9975                                                                         | 0.9945  | 0.9664  | 0.9873  |
| 12           | LTE 2 bands,              | Band 29 (717-728)                     | 717             |                       | 0.5104                                                                         | 0.5089  | 0.4945  | 0.5052  |



| Radio Config | RAT                                        | Bands                                                     | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|--------------------------------------------|-----------------------------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                            |                                                           |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                            |                                                           |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
|              | (B29/B70)                                  | Band 70 (1995-2020)                                       | 1995            |                       | 0.4781                                                                         | 0.4766  | 0.4631  | 0.4732  |
|              |                                            | Summation at boundary                                     |                 | 11.5                  | 0.9885                                                                         | 0.9855  | 0.9576  | 0.9783  |
|              |                                            |                                                           |                 |                       |                                                                                |         |         |         |
| 13           | LTE 2 bands, (B25/B66)                     | Band 25 (1930-1995)                                       | 1930            |                       | 0.6641                                                                         | 0.6621  | 0.6434  | 0.6573  |
|              |                                            | Band 66 (2110-2200)                                       | 2110            |                       | 0.3204                                                                         | 0.3247  | 0.3320  | 0.3356  |
|              |                                            | Summation at boundary                                     |                 | 16.2                  | 0.9845                                                                         | 0.9868  | 0.9754  | 0.9928  |
| 14           | LTE 3 bands, (B12/B14/B29)                 | Band 12 (729-746) / Band 14 (758-768) / Band 29 (717-728) | 717             |                       | 0.5654                                                                         | 0.5637  | 0.5478  | 0.5596  |
|              |                                            | Band 12 (729-746) / Band 14 (758-768) /                   | 729             |                       | 0.4238                                                                         | 0.4225  | 0.4106  | 0.4194  |
|              |                                            | Summation at boundary                                     |                 | 17.7                  | 0.9892                                                                         | 0.9862  | 0.9583  | 0.9790  |
| 15           | LTE 2 bands, (B5/B28)                      | Band 5 (869-894)                                          | 869             |                       | 0.4636                                                                         | 0.4622  | 0.4491  | 0.4588  |
|              |                                            | Band 28 (758-803)                                         | 758             |                       | 0.5315                                                                         | 0.5299  | 0.5149  | 0.5260  |
|              |                                            | Summation at boundary                                     |                 | 15.5                  | 0.9951                                                                         | 0.9921  | 0.9640  | 0.9849  |
| 16           | LTE 2 bands, (B5/B29)                      | Band 5 (869-894) / Band 29 (717-728)                      | 717             |                       | 0.6601                                                                         | 0.6581  | 0.6395  | 0.6534  |
|              |                                            | Band 29 (717-728)                                         | 717             |                       | 0.3301                                                                         | 0.3291  | 0.3198  | 0.3267  |
|              |                                            | Summation at boundary                                     |                 | 14.3                  | 0.9902                                                                         | 0.9872  | 0.9593  | 0.9800  |
| 17           | LTE 2 bands, (B13/B71)                     | Band 13 (746-756)                                         | 746             |                       | 0.4401                                                                         | 0.4387  | 0.4263  | 0.4355  |
|              |                                            | Band 71 (617-652)                                         | 617             |                       | 0.5571                                                                         | 0.5555  | 0.5398  | 0.5514  |
|              |                                            | Summation at boundary                                     |                 | 14.2                  | 0.9972                                                                         | 0.9942  | 0.9661  | 0.9869  |
| 18           | LTE 3 bands, (B5/B8/B28)                   | Band 5 (869-894) / Band 28 (758-803)                      | 758             |                       | 0.5333                                                                         | 0.5317  | 0.5166  | 0.5278  |
|              |                                            | Band 8 (925-960)                                          | 925             |                       | 0.4576                                                                         | 0.4562  | 0.4433  | 0.4529  |
|              |                                            | Summation at boundary                                     |                 | 13.4                  | 0.9908                                                                         | 0.9879  | 0.9599  | 0.9807  |
| 18a          | LTE 3 bands, (B5/B8/B28) – Single B5 band  | Band 5 (869-894)                                          | 869             |                       | 0.9884                                                                         | 0.9854  | 0.9575  | 0.9782  |
|              |                                            | Summation at boundary                                     |                 | 13.0                  | 0.9884                                                                         | 0.9854  | 0.9575  | 0.9782  |
| 18b          | LTE 3 bands, (B5/B8/B28) – Single B8 band  | Band 8 (925-960)                                          | 925             |                       | 0.9874                                                                         | 0.9845  | 0.9566  | 0.9773  |
|              |                                            | Summation at boundary                                     |                 | 12.9                  | 0.9874                                                                         | 0.9845  | 0.9566  | 0.9773  |
| 18c          | LTE 3 bands, (B5/B8/B28) – Single B28 band | Band 28 (758-803)                                         | 758             |                       | 0.9911                                                                         | 0.9881  | 0.9602  | 0.9809  |
|              |                                            | Summation at boundary                                     |                 | 13.9                  | 0.9911                                                                         | 0.9881  | 0.9602  | 0.9809  |
| 19           | LTE 3 bands, (B8/B20/B28)                  | Band 8 (925-960)                                          | 925             |                       | 0.4560                                                                         | 0.4546  | 0.4418  | 0.4513  |
|              |                                            | Band 20 (791-821) / Band 28 (758-803)                     | 758             |                       | 0.5314                                                                         | 0.5298  | 0.5148  | 0.5259  |
|              |                                            | Summation at boundary                                     |                 | 14.5                  | 0.9874                                                                         | 0.9844  | 0.9566  | 0.9772  |
| 19a          | LTE 3 bands,                               | Band 8 (925-960)                                          | 925             |                       | 0.9923                                                                         | 0.9893  | 0.9614  | 0.9821  |



| Radio Config | RAT                                       | Bands                                               | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|-------------------------------------------|-----------------------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                           |                                                     |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                           | Summation for simultaneous exposure; value to be <1 |                 |                       |                                                                                |         |         |         |
|              | (B8/B20/B28) Single B8 band               | Summation at boundary                               |                 | 13.9                  | 0.9923                                                                         | 0.9893  | 0.9614  | 0.9821  |
| 19b          | LTE 3 bands, (B8/B20/B28) Single B20 band | Band 20 (791-821)                                   | 791             |                       | 0.9909                                                                         | 0.9879  | 0.9599  | 0.9807  |
|              |                                           | Summation at boundary                               |                 | 14.7                  | 0.9909                                                                         | 0.9879  | 0.9599  | 0.9807  |
| 19c          | LTE 3 bands, (B8/B20/B28) Single B28 band | Band 28 (758-803)                                   | 758             |                       | 0.9930                                                                         | 0.9901  | 0.9621  | 0.9828  |
|              |                                           | Summation at boundary                               |                 | 15.0                  | 0.9930                                                                         | 0.9901  | 0.9621  | 0.9828  |

**Table 8 – EU General Public Combined Exposure**

The calculations show that the EUT complies with the general public exposure levels described in the listed specifications in Annex A at the compliance boundary shown in the table.

### 2.3.2 FCC Result

FCC OET 65 specifies the method of summation in clause; Multiple-Transmitter Sites and Complex Environments; with results as follows:

| Radio Config | RAT                       | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|---------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                           |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                           |                                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 1            | LTE 3 bands, (B8/B20/B28) | Band 8 (925-960)                      | 925             |                       | 0.4388                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | 0.5113                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 5.3                   | 0.9501                                                                         | N/A     | N/A     | N/A     |
| 2            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | 0.5253                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | 0.4575                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 4.9                   | 0.9829                                                                         | N/A     | N/A     | N/A     |
| 3            | LTE 2 bands, (B66/B25)    | Band 25 (1930-1995)                   | 1930            |                       | 0.5000                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 66 (2110-2200)                   | 2110            |                       | 0.5000                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 5.8                   | 1.0000                                                                         | N/A     | N/A     | N/A     |
| 4            | LTE 2 bands, (B66a/B25)   | Band 2 (1930-1990)                    | 1930            |                       | 0.4768                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | 0.4768                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 4.2                   | 0.9536                                                                         | N/A     | N/A     | N/A     |
| 5            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | 0.4799                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 13 (746-756)                     | 746             |                       | 0.5099                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 5.9                   | 0.9898                                                                         | N/A     | N/A     | N/A     |



| Radio Config | RAT                        | Bands                                                     | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|----------------------------|-----------------------------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                            |                                                           |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                            |                                                           |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 6            | LTE 2 bands, (B1/B3)       | Band 1 (2110-2170)                                        | 2110            |                       | 0.5177                                                                         | N/A     | N/A     | N/A     |
|              |                            | Band 3 (1805-1880)                                        | 1805            |                       | 0.4509                                                                         | N/A     | N/A     | N/A     |
|              |                            | Summation at boundary                                     |                 | 5.7                   | 0.9686                                                                         | N/A     | N/A     | N/A     |
| 7            | LTE 2 bands, (B12/B14)     | Band 12 (729-746)                                         | 729             |                       | 0.5018                                                                         | N/A     | N/A     | N/A     |
|              |                            | Band 14 (758-768)                                         | 758             |                       | 0.4826                                                                         | N/A     | N/A     | N/A     |
|              |                            | Summation at boundary                                     |                 | 6.3                   | 0.9843                                                                         | N/A     | N/A     | N/A     |
| 8            | LTE 2 bands, (B12/B71)     | Band 12 (729-746)                                         | 729             |                       | 0.4597                                                                         | N/A     | N/A     | N/A     |
|              |                            | Band 71 (617-652)                                         | 617             |                       | 0.5187                                                                         | N/A     | N/A     | N/A     |
|              |                            | Summation at boundary                                     |                 | 5.7                   | 0.9783                                                                         | N/A     | N/A     | N/A     |
| 9            | LTE 2 bands, (B5/B13)      | Band 5 (869-894)                                          | 869             |                       | 0.4736                                                                         | N/A     | N/A     | N/A     |
|              |                            | Band 13 (746-756)                                         | 746             |                       | 0.5031                                                                         | N/A     | N/A     | N/A     |
|              |                            | Summation at boundary                                     |                 | 4.2                   | 0.9767                                                                         | N/A     | N/A     | N/A     |
| 10           | LTE 2 bands, (B2/B66a)     | Band 2 (1930-1990)                                        | 1930            |                       | 0.5000                                                                         | N/A     | N/A     | N/A     |
|              |                            | Band 66a (2110-2180)                                      | 2110            |                       | 0.5000                                                                         | N/A     | N/A     | N/A     |
|              |                            | Summation at boundary                                     |                 | 5.8                   | 1.0000                                                                         | N/A     | N/A     | N/A     |
| 11           | LTE 1 band, (B28)          | Band 28 (758-803)                                         | 758             |                       | 0.9965                                                                         | N/A     | N/A     | N/A     |
|              |                            | Summation at boundary                                     |                 | 6.2                   | 0.9965                                                                         | N/A     | N/A     | N/A     |
| 12           | LTE 2 bands, (B29/B70)     | Band 29 (717-728)                                         | 717             |                       | 0.4395                                                                         | N/A     | N/A     | N/A     |
|              |                            | Band 70 (1995-2020)                                       | 1995            |                       | 0.5474                                                                         | N/A     | N/A     | N/A     |
|              |                            | Summation at boundary                                     |                 | 4.8                   | 0.9869                                                                         | N/A     | N/A     | N/A     |
| 13           | LTE 2 bands, (B25/B66)     | Band 25 (1930-1995)                                       | 1930            |                       | 0.6489                                                                         | N/A     | N/A     | N/A     |
|              |                            | Band 66 (2110-2200)                                       | 2110            |                       | 0.3245                                                                         | N/A     | N/A     | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.2                   | 0.9733                                                                         | N/A     | N/A     | N/A     |
| 14           | LTE 3 bands, (B12/B14/B29) | Band 12 (729-746) / Band 14 (758-768) / Band 29 (717-728) | 717             |                       | 0.5581                                                                         | N/A     | N/A     | N/A     |
|              |                            | Band 12 (729-746) / Band 14 (758-768) /                   | 729             |                       | 0.4183                                                                         | N/A     | N/A     | N/A     |
|              |                            | Summation at boundary                                     |                 | 6.9                   | 0.9764                                                                         | N/A     | N/A     | N/A     |
| 15           | LTE 2 bands, (B5/B28)      | Band 5 (869-894)                                          | 869             |                       | 0.4641                                                                         | N/A     | N/A     | N/A     |
|              |                            | Band 28 (758-803)                                         | 758             |                       | 0.5320                                                                         | N/A     | N/A     | N/A     |
|              |                            | Summation at boundary                                     |                 | 6.0                   | 0.9961                                                                         | N/A     | N/A     | N/A     |
| 16           | LTE 2 bands, (B5/B29)      | Band 5 (869-894) / Band 29 (717-728)                      | 717             |                       | 0.6457                                                                         | N/A     | N/A     | N/A     |
|              |                            | Band 29 (717-728)                                         | 717             |                       | 0.3229                                                                         | N/A     | N/A     | N/A     |
|              |                            | Summation at boundary                                     |                 | 5.6                   | 0.9685                                                                         | N/A     | N/A     | N/A     |



| Radio Config | RAT                                        | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|--------------------------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                            |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                            |                                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 17           | LTE 2 bands, (B13/B71)                     | Band 13 (746-756)                     | 746             |                       | 0.4400                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Band 71 (617-652)                     | 617             |                       | 0.5571                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                 |                 | 5.5                   | 0.9971                                                                         | N/A     | N/A     | N/A     |
| 18           | LTE 3 bands, (B5/B8/B28)                   | Band 5 (869-894) / Band 28 (758-803)  | 758             |                       | 0.5312                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Band 8 (925-960)                      | 925             |                       | 0.4558                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                 |                 | 5.2                   | 0.9870                                                                         | N/A     | N/A     | N/A     |
| 18a          | LTE 3 bands, (B5/B8/B28) – Single B5 band  | Band 5 (869-894)                      | 869             |                       | 0.9633                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                 |                 | 5.1                   | 0.9633                                                                         | N/A     | N/A     | N/A     |
| 18b          | LTE 3 bands, (B5/B8/B28) – Single B8 band  | Band 8 (925-960)                      | 925             |                       | 0.9859                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                 |                 | 5.0                   | 0.9859                                                                         | N/A     | N/A     | N/A     |
| 18c          | LTE 3 bands, (B5/B8/B28) – Single B28 band | Band 28 (758-803)                     | 758             |                       | 0.9850                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                 |                 | 5.4                   | 0.9850                                                                         | N/A     | N/A     | N/A     |
| 19           | LTE 3 bands, (B8/B20/B28)                  | Band 8 (925-960)                      | 925             |                       | 0.4586                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | 0.5344                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                 |                 | 5.6                   | 0.9930                                                                         | N/A     | N/A     | N/A     |
| 19a          | LTE 3 bands, (B8/B20/B28) Single B8 band   | Band 8 (925-960)                      | 925             |                       | 0.9862                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                 |                 | 5.4                   | 0.9862                                                                         | N/A     | N/A     | N/A     |
| 19b          | LTE 3 bands, (B8/B20/B28) Single B20 band  | Band 20 (791-821)                     | 791             |                       | 0.9885                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                 |                 | 5.7                   | 0.9885                                                                         | N/A     | N/A     | N/A     |
| 19c          | LTE 3 bands, (B8/B20/B28) Single B28 band  | Band 28 (758-803)                     | 758             |                       | 0.9963                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                 |                 | 5.8                   | 0.9963                                                                         | N/A     | N/A     | N/A     |

**Table 9 – FCC Worker/Occupational Combined Exposure**

The calculations show that the EUT complies with the worker/occupational exposure levels described in the listed specifications in Annex A at the compliance boundary shown in the table.



| Radio Config | RAT                       | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|---------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                           |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                           |                                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 1            | LTE 3 bands, (B8/B20/B28) | Band 8 (925-960)                      | 925             |                       | 0.4580                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | 0.5337                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 11.6                  | 0.9917                                                                         | N/A     | N/A     | N/A     |
| 2            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | 0.5308                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | 0.4623                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 10.9                  | 0.9931                                                                         | N/A     | N/A     | N/A     |
| 3            | LTE 2 bands, (B66/B25)    | Band 25 (1930-1995)                   | 1930            |                       | 0.4976                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 66 (2110-2200)                   | 2110            |                       | 0.4976                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 13.0                  | 0.9953                                                                         | N/A     | N/A     | N/A     |
| 4            | LTE 2 bands, (B66a/B25)   | Band 2 (1930-1990)                    | 1930            |                       | 0.4968                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | 0.4968                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 9.2                   | 0.9937                                                                         | N/A     | N/A     | N/A     |
| 5            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | 0.4794                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 13 (746-756)                     | 746             |                       | 0.5093                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 13.2                  | 0.9887                                                                         | N/A     | N/A     | N/A     |
| 6            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | 0.5297                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | 0.4614                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 12.6                  | 0.9911                                                                         | N/A     | N/A     | N/A     |
| 7            | LTE 2 bands, (B12/B14)    | Band 12 (729-746)                     | 729             |                       | 0.5080                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 14 (758-768)                     | 758             |                       | 0.4886                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 14.0                  | 0.9966                                                                         | N/A     | N/A     | N/A     |
| 8            | LTE 2 bands, (B12/B71)    | Band 12 (729-746)                     | 729             |                       | 0.4630                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 71 (617-652)                     | 617             |                       | 0.5224                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 12.7                  | 0.9853                                                                         | N/A     | N/A     | N/A     |
| 9            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | 0.4829                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 13 (746-756)                     | 746             |                       | 0.5131                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 9.3                   | 0.9960                                                                         | N/A     | N/A     | N/A     |
| 10           | LTE 2 bands, (B2/B66a)    | Band 2 (1930-1990)                    | 1930            |                       | 0.4976                                                                         | N/A     | N/A     | N/A     |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | 0.4976                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 13.0                  | 0.9953                                                                         | N/A     | N/A     | N/A     |
| 11           | LTE 1 band, (B28)         | Band 28 (758-803)                     | 758             |                       | 0.9912                                                                         | N/A     | N/A     | N/A     |
|              |                           | Summation at boundary                 |                 | 13.9                  | 0.9912                                                                         | N/A     | N/A     | N/A     |
| 12           | LTE 2 bands,              | Band 29 (717-728)                     | 717             |                       | 0.4422                                                                         | N/A     | N/A     | N/A     |



| Radio Config | RAT                                        | Bands                                                     | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|--------------------------------------------|-----------------------------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                            |                                                           |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                            |                                                           |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
|              | (B29/B70)                                  | Band 70 (1995-2020)                                       | 1995            |                       | 0.5508                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                                     |                 | 10.7                  | 0.9930                                                                         | N/A     | N/A     | N/A     |
|              |                                            |                                                           |                 |                       |                                                                                |         |         |         |
| 13           | LTE 2 bands, (B25/B66)                     | Band 25 (1930-1995)                                       | 1930            |                       | 0.6653                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Band 66 (2110-2200)                                       | 2110            |                       | 0.3327                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                                     |                 | 15.9                  | 0.9979                                                                         | N/A     | N/A     | N/A     |
| 14           | LTE 3 bands, (B12/B14/B29)                 | Band 12 (729-746) / Band 14 (758-768) / Band 29 (717-728) | 717             |                       | 0.5675                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Band 12 (729-746) / Band 14 (758-768) /                   | 729             |                       | 0.4254                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                                     |                 | 15.3                  | 0.9929                                                                         | N/A     | N/A     | N/A     |
| 15           | LTE 2 bands, (B5/B28)                      | Band 5 (869-894)                                          | 869             |                       | 0.4652                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Band 28 (758-803)                                         | 758             |                       | 0.5333                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                                     |                 | 13.4                  | 0.9986                                                                         | N/A     | N/A     | N/A     |
| 16           | LTE 2 bands, (B5/B29)                      | Band 5 (869-894) / Band 29 (717-728)                      | 717             |                       | 0.6584                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Band 29 (717-728)                                         | 717             |                       | 0.3292                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                                     |                 | 12.4                  | 0.9877                                                                         | N/A     | N/A     | N/A     |
| 17           | LTE 2 bands, (B13/B71)                     | Band 13 (746-756)                                         | 746             |                       | 0.4399                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Band 71 (617-652)                                         | 617             |                       | 0.5569                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                                     |                 | 12.3                  | 0.9968                                                                         | N/A     | N/A     | N/A     |
| 18           | LTE 3 bands, (B5/B8/B28)                   | Band 5 (869-894) / Band 28 (758-803)                      | 758             |                       | 0.5337                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Band 8 (925-960)                                          | 925             |                       | 0.4580                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                                     |                 | 11.6                  | 0.9917                                                                         | N/A     | N/A     | N/A     |
| 18a          | LTE 3 bands, (B5/B8/B28) – Single B5 band  | Band 5 (869-894)                                          | 869             |                       | 0.9987                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                                     |                 | 11.2                  | 0.9987                                                                         | N/A     | N/A     | N/A     |
| 18b          | LTE 3 bands, (B5/B8/B28) – Single B8 band  | Band 8 (925-960)                                          | 925             |                       | 0.9824                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                                     |                 | 11.2                  | 0.9824                                                                         | N/A     | N/A     | N/A     |
| 18c          | LTE 3 bands, (B5/B8/B28) – Single B28 band | Band 28 (758-803)                                         | 758             |                       | 0.9974                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                                     |                 | 12.0                  | 0.9974                                                                         | N/A     | N/A     | N/A     |
| 19           | LTE 3 bands, (B8/B20/B28)                  | Band 8 (925-960)                                          | 925             |                       | 0.4602                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Band 20 (791-821) / Band 28 (758-803)                     | 758             |                       | 0.5363                                                                         | N/A     | N/A     | N/A     |
|              |                                            | Summation at boundary                                     |                 | 12.5                  | 0.9965                                                                         | N/A     | N/A     | N/A     |
| 19a          | LTE 3 bands,                               | Band 8 (925-960)                                          | 925             |                       | 0.9986                                                                         | N/A     | N/A     | N/A     |



| Radio Config | RAT                                       | Bands                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|-------------------------------------------|-----------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                           |                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                           |                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
|              | (B8/B20/B28) Single B8 band               | Summation at boundary |                 | 12.0                  | 0.9986                                                                         | N/A     | N/A     | N/A     |
| 19b          | LTE 3 bands, (B8/B20/B28) Single B20 band | Band 20 (791-821)     | 791             |                       | 0.9956                                                                         | N/A     | N/A     | N/A     |
|              |                                           | Summation at boundary |                 | 12.7                  | 0.9956                                                                         | N/A     | N/A     | N/A     |
| 19c          | LTE 3 bands, (B8/B20/B28) Single B28 band | Band 28 (758-803)     | 758             |                       | 0.9916                                                                         | N/A     | N/A     | N/A     |
|              |                                           | Summation at boundary |                 | 13.0                  | 0.9916                                                                         | N/A     | N/A     | N/A     |

**Table 10 – FCC General Public Combined Exposure**

The calculations show that the EUT complies with the general public exposure levels described in the listed specifications in Annex A at the compliance boundary shown in the table.

### 2.3.3 Canada Result

CANADA Health Canada Safety Code 6 specifies the method of summation in clause 2.2.1 Note 6 with results as follows:

| Radio Config | RAT                       | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|---------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                           |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                           |                                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 1            | LTE 3 bands, (B8/B20/B28) | Band 8 (925-960)                      | 925             |                       | 0.4726                                                                         | 0.4725  | 0.4725  | N/A     |
|              |                           | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | 0.4985                                                                         | 0.4985  | 0.4985  | N/A     |
|              |                           | Summation at boundary                 |                 | 6.4                   | 0.9711                                                                         | 0.9711  | 0.9711  | N/A     |
| 2            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | 0.5034                                                                         | 0.5034  | 0.5034  | N/A     |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | 0.4741                                                                         | 0.4740  | 0.4740  | N/A     |
|              |                           | Summation at boundary                 |                 | 6.5                   | 0.9775                                                                         | 0.9774  | 0.9774  | N/A     |
| 3            | LTE 2 bands, (B66/B25)    | Band 25 (1930-1995)                   | 1930            |                       | 0.5002                                                                         | 0.5002  | 0.5002  | N/A     |
|              |                           | Band 66 (2110-2200)                   | 2110            |                       | 0.4784                                                                         | 0.4784  | 0.4784  | N/A     |
|              |                           | Summation at boundary                 |                 | 7.7                   | 0.9786                                                                         | 0.9785  | 0.9785  | N/A     |
| 4            | LTE 2 bands, (B66a/B25)   | Band 2 (1930-1990)                    | 1930            |                       | 0.5085                                                                         | 0.5085  | 0.5085  | N/A     |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | 0.4864                                                                         | 0.4863  | 0.4864  | N/A     |
|              |                           | Summation at boundary                 |                 | 5.4                   | 0.9949                                                                         | 0.9949  | 0.9949  | N/A     |
| 5            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | 0.4906                                                                         | 0.4906  | 0.4906  | N/A     |
|              |                           | Band 13 (746-756)                     | 746             |                       | 0.4829                                                                         | 0.4829  | 0.4829  | N/A     |
|              |                           | Summation at boundary                 |                 | 7.2                   | 0.9735                                                                         | 0.9734  | 0.9735  | N/A     |



| Radio Config | RAT                        | Bands                                                     | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|----------------------------|-----------------------------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                            |                                                           |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                            |                                                           |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 6            | LTE 2 bands, (B1/B3)       | Band 1 (2110-2170)                                        | 2110            |                       | 0.5042                                                                         | 0.5042  | 0.5042  | N/A     |
|              |                            | Band 3 (1805-1880)                                        | 1805            |                       | 0.4748                                                                         | 0.4748  | 0.4748  | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.5                   | 0.9791                                                                         | 0.9790  | 0.9790  | N/A     |
| 7            | LTE 2 bands, (B12/B14)     | Band 12 (729-746)                                         | 729             |                       | 0.4936                                                                         | 0.4936  | 0.4936  | N/A     |
|              |                            | Band 14 (758-768)                                         | 758             |                       | 0.4841                                                                         | 0.4841  | 0.4841  | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.5                   | 0.9777                                                                         | 0.9777  | 0.9777  | N/A     |
| 8            | LTE 2 bands, (B12/B71)     | Band 12 (729-746)                                         | 729             |                       | 0.4780                                                                         | 0.4780  | 0.4780  | N/A     |
|              |                            | Band 71 (617-652)                                         | 617             |                       | 0.4962                                                                         | 0.4962  | 0.4962  | N/A     |
|              |                            | Summation at boundary                                     |                 | 6.6                   | 0.9742                                                                         | 0.9742  | 0.9742  | N/A     |
| 9            | LTE 2 bands, (B5/B13)      | Band 5 (869-894)                                          | 869             |                       | 0.4889                                                                         | 0.4889  | 0.4889  | N/A     |
|              |                            | Band 13 (746-756)                                         | 746             |                       | 0.4813                                                                         | 0.4812  | 0.4812  | N/A     |
|              |                            | Summation at boundary                                     |                 | 5.1                   | 0.9702                                                                         | 0.9701  | 0.9702  | N/A     |
| 10           | LTE 2 bands, (B2/B66a)     | Band 2 (1930-1990)                                        | 1930            |                       | 0.5002                                                                         | 0.5002  | 0.5002  | N/A     |
|              |                            | Band 66a (2110-2180)                                      | 2110            |                       | 0.4784                                                                         | 0.4784  | 0.4784  | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.7                   | 0.9786                                                                         | 0.9785  | 0.9785  | N/A     |
| 11           | LTE 1 band, (B28)          | Band 28 (758-803)                                         | 758             |                       | 0.9945                                                                         | 0.9944  | 0.9944  | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.4                   | 0.9945                                                                         | 0.9944  | 0.9944  | N/A     |
| 12           | LTE 2 bands, (B29/B70)     | Band 29 (717-728)                                         | 717             |                       | 0.3889                                                                         | 0.3889  | 0.3889  | N/A     |
|              |                            | Band 70 (1995-2020)                                       | 1995            |                       | 0.6076                                                                         | 0.6076  | 0.6076  | N/A     |
|              |                            | Summation at boundary                                     |                 | 6.0                   | 0.9965                                                                         | 0.9964  | 0.9965  | N/A     |
| 13           | LTE 2 bands, (B25/B66)     | Band 25 (1930-1995)                                       | 1930            |                       | 0.6712                                                                         | 0.6712  | 0.6712  | N/A     |
|              |                            | Band 66 (2110-2200)                                       | 2110            |                       | 0.3210                                                                         | 0.3210  | 0.3210  | N/A     |
|              |                            | Summation at boundary                                     |                 | 9.4                   | 0.9922                                                                         | 0.9922  | 0.9922  | N/A     |
| 14           | LTE 3 bands, (B12/B14/B29) | Band 12 (729-746) / Band 14 (758-768) / Band 29 (717-728) | 717             |                       | 0.5600                                                                         | 0.5599  | 0.5599  | N/A     |
|              |                            | Band 12 (729-746) / Band 14 (758-768) /                   | 729             |                       | 0.4232                                                                         | 0.4232  | 0.4232  | N/A     |
|              |                            | Summation at boundary                                     |                 | 8.1                   | 0.9832                                                                         | 0.9831  | 0.9831  | N/A     |
| 15           | LTE 2 bands, (B5/B28)      | Band 5 (869-894)                                          | 869             |                       | 0.4772                                                                         | 0.4772  | 0.4772  | N/A     |
|              |                            | Band 28 (758-803)                                         | 758             |                       | 0.5110                                                                         | 0.5110  | 0.5110  | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.3                   | 0.9882                                                                         | 0.9882  | 0.9882  | N/A     |
| 16           | LTE 2 bands, (B5/B29)      | Band 5 (869-894) / Band 29 (717-728)                      | 717             |                       | 0.6627                                                                         | 0.6627  | 0.6627  | N/A     |
|              |                            | Band 29 (717-728)                                         | 717             |                       | 0.3314                                                                         | 0.3313  | 0.3314  | N/A     |
|              |                            | Summation at boundary                                     |                 | 6.5                   | 0.9941                                                                         | 0.9940  | 0.9940  | N/A     |



| Radio Config | RAT                                        | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|--------------------------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                            |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                            |                                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 17           | LTE 2 bands, (B13/B71)                     | Band 13 (746-756)                     | 746             |                       | 0.4583                                                                         | 0.4583  | 0.4583  | N/A     |
|              |                                            | Band 71 (617-652)                     | 617             |                       | 0.5277                                                                         | 0.5277  | 0.5277  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.4                   | 0.9860                                                                         | 0.9860  | 0.9860  | N/A     |
| 18           | LTE 3 bands, (B5/B8/B28)                   | Band 5 (869-894) / Band 28 (758-803)  | 758             |                       | 0.4985                                                                         | 0.4985  | 0.4985  | N/A     |
|              |                                            | Band 8 (925-960)                      | 925             |                       | 0.4726                                                                         | 0.4725  | 0.4725  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.4                   | 0.9711                                                                         | 0.9711  | 0.9711  | N/A     |
| 18a          | LTE 3 bands, (B5/B8/B28) – Single B5 band  | Band 5 (869-894)                      | 869             |                       | 0.9922                                                                         | 0.9922  | 0.9922  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.2                   | 0.9922                                                                         | 0.9922  | 0.9922  | N/A     |
| 18b          | LTE 3 bands, (B5/B8/B28) – Single B8 band  | Band 8 (925-960)                      | 925             |                       | 0.9753                                                                         | 0.9753  | 0.9753  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.3                   | 0.9753                                                                         | 0.9753  | 0.9753  | N/A     |
| 18c          | LTE 3 bands, (B5/B8/B28) – Single B28 band | Band 28 (758-803)                     | 758             |                       | 0.9970                                                                         | 0.9970  | 0.9970  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.4                   | 0.9970                                                                         | 0.9970  | 0.9970  | N/A     |
| 19           | LTE 3 bands, (B8/B20/B28)                  | Band 8 (925-960)                      | 925             |                       | 0.4744                                                                         | 0.4744  | 0.4744  | N/A     |
|              |                                            | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | 0.5005                                                                         | 0.5004  | 0.5004  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.9                   | 0.9748                                                                         | 0.9748  | 0.9748  | N/A     |
| 19a          | LTE 3 bands, (B8/B20/B28) Single B8 band   | Band 8 (925-960)                      | 925             |                       | 0.9768                                                                         | 0.9767  | 0.9768  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.8                   | 0.9768                                                                         | 0.9767  | 0.9768  | N/A     |
| 19b          | LTE 3 bands, (B8/B20/B28) Single B20 band  | Band 20 (791-821)                     | 791             |                       | 0.9797                                                                         | 0.9797  | 0.9797  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.9                   | 0.9797                                                                         | 0.9797  | 0.9797  | N/A     |
| 19c          | LTE 3 bands, (B8/B20/B28) Single B28 band  | Band 28 (758-803)                     | 758             |                       | 0.9724                                                                         | 0.9724  | 0.9724  | N/A     |
|              |                                            | Summation at boundary                 |                 | 7.0                   | 0.9724                                                                         | 0.9724  | 0.9724  | N/A     |

**Table 11 – CANADA Worker/Occupational Combined Exposure**

The calculations show that the EUT complies with the worker/occupational exposure levels described in in the listed specifications in Annex A at the compliance boundary shown in the table.



| Radio Config | RAT                       | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|---------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                           |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                           |                                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 1            | LTE 3 bands, (B8/B20/B28) | Band 8 (925-960)                      | 925             |                       | 0.4773                                                                         | 0.4774  | 0.4773  | N/A     |
|              |                           | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | 0.5223                                                                         | 0.5224  | 0.5223  | N/A     |
|              |                           | Summation at boundary                 |                 | 16.9                  | 0.9996                                                                         | 0.9998  | 0.9996  | N/A     |
| 2            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | 0.5030                                                                         | 0.5031  | 0.5030  | N/A     |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | 0.4875                                                                         | 0.4875  | 0.4875  | N/A     |
|              |                           | Summation at boundary                 |                 | 16.0                  | 0.9905                                                                         | 0.9906  | 0.9905  | N/A     |
| 3            | LTE 2 bands, (B66/B25)    | Band 25 (1930-1995)                   | 1930            |                       | 0.5110                                                                         | 0.5110  | 0.5109  | N/A     |
|              |                           | Band 66 (2110-2200)                   | 2110            |                       | 0.4807                                                                         | 0.4808  | 0.4807  | N/A     |
|              |                           | Summation at boundary                 |                 | 18.9                  | 0.9917                                                                         | 0.9918  | 0.9917  | N/A     |
| 4            | LTE 2 bands, (B66a/B25)   | Band 2 (1930-1990)                    | 1930            |                       | 0.5083                                                                         | 0.5083  | 0.5083  | N/A     |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | 0.4782                                                                         | 0.4783  | 0.4782  | N/A     |
|              |                           | Summation at boundary                 |                 | 13.4                  | 0.9865                                                                         | 0.9866  | 0.9865  | N/A     |
| 5            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | 0.4967                                                                         | 0.4967  | 0.4967  | N/A     |
|              |                           | Band 13 (746-756)                     | 746             |                       | 0.5028                                                                         | 0.5028  | 0.5027  | N/A     |
|              |                           | Summation at boundary                 |                 | 19.1                  | 0.9994                                                                         | 0.9995  | 0.9994  | N/A     |
| 6            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | 0.5072                                                                         | 0.5073  | 0.5072  | N/A     |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | 0.4915                                                                         | 0.4916  | 0.4915  | N/A     |
|              |                           | Summation at boundary                 |                 | 18.4                  | 0.9988                                                                         | 0.9989  | 0.9987  | N/A     |
| 7            | LTE 2 bands, (B12/B14)    | Band 12 (729-746)                     | 729             |                       | 0.5057                                                                         | 0.5057  | 0.5057  | N/A     |
|              |                           | Band 14 (758-768)                     | 758             |                       | 0.4924                                                                         | 0.4924  | 0.4924  | N/A     |
|              |                           | Summation at boundary                 |                 | 20.1                  | 0.9981                                                                         | 0.9982  | 0.9980  | N/A     |
| 8            | LTE 2 bands, (B12/B71)    | Band 12 (729-746)                     | 729             |                       | 0.4781                                                                         | 0.4782  | 0.4781  | N/A     |
|              |                           | Band 71 (617-652)                     | 617             |                       | 0.5118                                                                         | 0.5118  | 0.5118  | N/A     |
|              |                           | Summation at boundary                 |                 | 17.9                  | 0.9899                                                                         | 0.9900  | 0.9899  | N/A     |
| 9            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | 0.4898                                                                         | 0.4899  | 0.4898  | N/A     |
|              |                           | Band 13 (746-756)                     | 746             |                       | 0.4958                                                                         | 0.4959  | 0.4958  | N/A     |
|              |                           | Summation at boundary                 |                 | 13.6                  | 0.9857                                                                         | 0.9858  | 0.9857  | N/A     |
| 10           | LTE 2 bands, (B2/B66a)    | Band 2 (1930-1990)                    | 1930            |                       | 0.5110                                                                         | 0.5110  | 0.5109  | N/A     |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | 0.4807                                                                         | 0.4808  | 0.4807  | N/A     |
|              |                           | Summation at boundary                 |                 | 18.9                  | 0.9917                                                                         | 0.9918  | 0.9917  | N/A     |
| 11           | LTE 1 band, (B28)         | Band 28 (758-803)                     | 758             |                       | 0.9946                                                                         | 0.9947  | 0.9945  | N/A     |
|              |                           | Summation at boundary                 |                 | 20.0                  | 0.9946                                                                         | 0.9947  | 0.9945  | N/A     |
| 12           | LTE 2 bands,              | Band 29 (717-728)                     | 717             |                       | 0.4357                                                                         | 0.4357  | 0.4357  | N/A     |



| Radio Config | RAT                                        | Bands                                                     | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|--------------------------------------------|-----------------------------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                            |                                                           |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                            |                                                           |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
|              | (B29/B70)                                  | Band 70 (1995-2020)                                       | 1995            |                       | 0.5642                                                                         | 0.5643  | 0.5642  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 15.4                  | 0.9999                                                                         | 1.0000  | 0.9998  | N/A     |
|              |                                            |                                                           |                 |                       |                                                                                |         |         |         |
| 13           | LTE 2 bands, (B25/B66)                     | Band 25 (1930-1995)                                       | 1930            |                       | 0.6782                                                                         | 0.6782  | 0.6781  | N/A     |
|              |                                            | Band 66 (2110-2200)                                       | 2110            |                       | 0.3191                                                                         | 0.3191  | 0.3190  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 23.2                  | 0.9972                                                                         | 0.9973  | 0.9972  | N/A     |
| 14           | LTE 3 bands, (B12/B14/B29)                 | Band 12 (729-746) / Band 14 (758-768) / Band 29 (717-728) | 717             |                       | 0.5653                                                                         | 0.5654  | 0.5653  | N/A     |
|              |                                            | Band 12 (729-746) / Band 14 (758-768) /                   | 729             |                       | 0.4260                                                                         | 0.4260  | 0.4260  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 21.9                  | 0.9913                                                                         | 0.9914  | 0.9913  | N/A     |
| 15           | LTE 2 bands, (B5/B28)                      | Band 5 (869-894)                                          | 869             |                       | 0.4765                                                                         | 0.4766  | 0.4765  | N/A     |
|              |                                            | Band 28 (758-803)                                         | 758             |                       | 0.5231                                                                         | 0.5232  | 0.5231  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 19.5                  | 0.9996                                                                         | 0.9998  | 0.9996  | N/A     |
| 16           | LTE 2 bands, (B5/B29)                      | Band 5 (869-894) / Band 29 (717-728)                      | 717             |                       | 0.6595                                                                         | 0.6596  | 0.6595  | N/A     |
|              |                                            | Band 29 (717-728)                                         | 717             |                       | 0.3298                                                                         | 0.3298  | 0.3298  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 17.7                  | 0.9893                                                                         | 0.9895  | 0.9893  | N/A     |
| 17           | LTE 2 bands, (B13/B71)                     | Band 13 (746-756)                                         | 746             |                       | 0.4543                                                                         | 0.4543  | 0.4543  | N/A     |
|              |                                            | Band 71 (617-652)                                         | 617             |                       | 0.5416                                                                         | 0.5417  | 0.5416  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 17.4                  | 0.9959                                                                         | 0.9960  | 0.9959  | N/A     |
| 18           | LTE 3 bands, (B5/B8/B28)                   | Band 5 (869-894) / Band 28 (758-803)                      | 758             |                       | 0.5223                                                                         | 0.5224  | 0.5223  | N/A     |
|              |                                            | Band 8 (925-960)                                          | 925             |                       | 0.4773                                                                         | 0.4774  | 0.4773  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 16.9                  | 0.9996                                                                         | 0.9998  | 0.9996  | N/A     |
| 18a          | LTE 3 bands, (B5/B8/B28) – Single B5 band  | Band 5 (869-894)                                          | 869             |                       | 0.9981                                                                         | 0.9982  | 0.9981  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 16.5                  | 0.9981                                                                         | 0.9982  | 0.9981  | N/A     |
| 18b          | LTE 3 bands, (B5/B8/B28) – Single B8 band  | Band 8 (925-960)                                          | 925             |                       | 0.9894                                                                         | 0.9895  | 0.9894  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 16.6                  | 0.9894                                                                         | 0.9895  | 0.9894  | N/A     |
| 18c          | LTE 3 bands, (B5/B8/B28) – Single B28 band | Band 28 (758-803)                                         | 758             |                       | 0.9968                                                                         | 0.9969  | 0.9968  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 17.3                  | 0.9968                                                                         | 0.9969  | 0.9968  | N/A     |
| 19           | LTE 3 bands, (B8/B20/B28)                  | Band 8 (925-960)                                          | 925             |                       | 0.4750                                                                         | 0.4751  | 0.4750  | N/A     |
|              |                                            | Band 20 (791-821) / Band 28 (758-803)                     | 758             |                       | 0.5197                                                                         | 0.5198  | 0.5197  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 18.3                  | 0.9947                                                                         | 0.9949  | 0.9947  | N/A     |
| 19a          | LTE 3 bands,                               | Band 8 (925-960)                                          | 925             |                       | 0.9929                                                                         | 0.9930  | 0.9928  | N/A     |



| Radio Config | RAT                                       | Bands                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|-------------------------------------------|-----------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                           |                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                           |                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
|              | (B8/B20/B28) Single B8 band               | Summation at boundary |                 | 17.9                  | 0.9929                                                                         | 0.9930  | 0.9928  | N/A     |
| 19b          | LTE 3 bands, (B8/B20/B28) Single B20 band | Band 20 (791-821)     | 791             |                       | 0.9986                                                                         | 0.9988  | 0.9986  | N/A     |
|              |                                           | Summation at boundary |                 | 18.4                  | 0.9986                                                                         | 0.9988  | 0.9986  | N/A     |
| 19c          | LTE 3 bands, (B8/B20/B28) Single B28 band | Band 28 (758-803)     | 758             |                       | 0.9954                                                                         | 0.9955  | 0.9954  | N/A     |
|              |                                           | Summation at boundary |                 | 18.7                  | 0.9954                                                                         | 0.9955  | 0.9954  | N/A     |

**Table 12 – CANADA General Public Combined Exposure**

The calculations show that the EUT complies with the general public exposure levels described in the listed specifications in Annex A at the compliance boundary shown in the table.

#### 2.3.4 Australia Result

AUSTRALIA ARPANSA Radiation Protection Series No.3 specifies the method of summation in clause 3.4 with results as follows:

| Radio Config | RAT                       | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|---------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                           |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                           |                                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 1            | LTE 3 bands, (B8/B20/B28) | Band 8 (925-960)                      | 925             |                       | 0.4565                                                                         | 0.4565  | 0.4568  | N/A     |
|              |                           | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | 0.5320                                                                         | 0.5320  | 0.5324  | N/A     |
|              |                           | Summation at boundary                 |                 | 6.0                   | 0.9884                                                                         | 0.9884  | 0.9892  | N/A     |
| 2            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | 0.5045                                                                         | 0.5067  | 0.5050  | N/A     |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | 0.4869                                                                         | 0.4869  | 0.4873  | N/A     |
|              |                           | Summation at boundary                 |                 | 4.9                   | 0.9914                                                                         | 0.9936  | 0.9923  | N/A     |
| 3            | LTE 2 bands, (B66/B25)    | Band 25 (1930-1995)                   | 1930            |                       | 0.5007                                                                         | 0.5007  | 0.5011  | N/A     |
|              |                           | Band 66 (2110-2200)                   | 2110            |                       | 0.4832                                                                         | 0.4853  | 0.4837  | N/A     |
|              |                           | Summation at boundary                 |                 | 5.9                   | 0.9839                                                                         | 0.9860  | 0.9848  | N/A     |
| 4            | LTE 2 bands, (B66a/B25)   | Band 2 (1930-1990)                    | 1930            |                       | 0.4941                                                                         | 0.4941  | 0.4945  | N/A     |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | 0.4768                                                                         | 0.4788  | 0.4773  | N/A     |
|              |                           | Summation at boundary                 |                 | 4.2                   | 0.9709                                                                         | 0.9729  | 0.9717  | N/A     |
| 5            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | 0.4817                                                                         | 0.4817  | 0.4821  | N/A     |
|              |                           | Band 13 (746-756)                     | 746             |                       | 0.5118                                                                         | 0.5118  | 0.5122  | N/A     |
|              |                           | Summation at boundary                 |                 | 6.8                   | 0.9935                                                                         | 0.9935  | 0.9944  | N/A     |



| Radio Config | RAT                        | Bands                                                     | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|----------------------------|-----------------------------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                            |                                                           |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                            |                                                           |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 6            | LTE 2 bands, (B1/B3)       | Band 1 (2110-2170)                                        | 2110            |                       | 0.5000                                                                         | 0.5021  | 0.5005  | N/A     |
|              |                            | Band 3 (1805-1880)                                        | 1805            |                       | 0.4825                                                                         | 0.4825  | 0.4829  | N/A     |
|              |                            | Summation at boundary                                     |                 | 5.8                   | 0.9825                                                                         | 0.9847  | 0.9834  | N/A     |
| 7            | LTE 2 bands, (B12/B14)     | Band 12 (729-746)                                         | 729             |                       | 0.4983                                                                         | 0.4983  | 0.4987  | N/A     |
|              |                            | Band 14 (758-768)                                         | 758             |                       | 0.4792                                                                         | 0.4792  | 0.4796  | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.3                   | 0.9775                                                                         | 0.9775  | 0.9783  | N/A     |
| 8            | LTE 2 bands, (B12/B71)     | Band 12 (729-746)                                         | 729             |                       | 0.4571                                                                         | 0.4571  | 0.4575  | N/A     |
|              |                            | Band 71 (617-652)                                         | 617             |                       | 0.5158                                                                         | 0.5158  | 0.5162  | N/A     |
|              |                            | Summation at boundary                                     |                 | 6.6                   | 0.9729                                                                         | 0.9729  | 0.9737  | N/A     |
| 9            | LTE 2 bands, (B5/B13)      | Band 5 (869-894)                                          | 869             |                       | 0.4834                                                                         | 0.4834  | 0.4838  | N/A     |
|              |                            | Band 13 (746-756)                                         | 746             |                       | 0.5136                                                                         | 0.5136  | 0.5140  | N/A     |
|              |                            | Summation at boundary                                     |                 | 4.8                   | 0.9971                                                                         | 0.9970  | 0.9979  | N/A     |
| 10           | LTE 2 bands, (B2/B66a)     | Band 2 (1930-1990)                                        | 1930            |                       | 0.5007                                                                         | 0.5007  | 0.5011  | N/A     |
|              |                            | Band 66a (2110-2180)                                      | 2110            |                       | 0.4832                                                                         | 0.4853  | 0.4837  | N/A     |
|              |                            | Summation at boundary                                     |                 | 5.9                   | 0.9839                                                                         | 0.9860  | 0.9848  | N/A     |
| 11           | LTE 1 band, (B28)          | Band 28 (758-803)                                         | 758             |                       | 0.9852                                                                         | 0.9852  | 0.9860  | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.2                   | 0.9852                                                                         | 0.9852  | 0.9860  | N/A     |
| 12           | LTE 2 bands, (B29/B70)     | Band 29 (717-728)                                         | 717             |                       | 0.4993                                                                         | 0.4993  | 0.4997  | N/A     |
|              |                            | Band 70 (1995-2020)                                       | 1995            |                       | 0.4676                                                                         | 0.4676  | 0.4680  | N/A     |
|              |                            | Summation at boundary                                     |                 | 5.2                   | 0.9669                                                                         | 0.9669  | 0.9677  | N/A     |
| 13           | LTE 2 bands, (B25/B66)     | Band 25 (1930-1995)                                       | 1930            |                       | 0.6724                                                                         | 0.6724  | 0.6730  | N/A     |
|              |                            | Band 66 (2110-2200)                                       | 2110            |                       | 0.3245                                                                         | 0.3258  | 0.3248  | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.2                   | 0.9969                                                                         | 0.9982  | 0.9977  | N/A     |
| 14           | LTE 3 bands, (B12/B14/B29) | Band 12 (729-746) / Band 14 (758-768) / Band 29 (717-728) | 717             |                       | 0.5676                                                                         | 0.5676  | 0.5681  | N/A     |
|              |                            | Band 12 (729-746) / Band 14 (758-768) /                   | 729             |                       | 0.4255                                                                         | 0.4255  | 0.4258  | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.9                   | 0.9931                                                                         | 0.9931  | 0.9939  | N/A     |
| 15           | LTE 2 bands, (B5/B28)      | Band 5 (869-894)                                          | 869             |                       | 0.4546                                                                         | 0.4546  | 0.4550  | N/A     |
|              |                            | Band 28 (758-803)                                         | 758             |                       | 0.5212                                                                         | 0.5212  | 0.5216  | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.0                   | 0.9758                                                                         | 0.9758  | 0.9766  | N/A     |
| 16           | LTE 2 bands, (B5/B29)      | Band 5 (869-894) / Band 29 (717-728)                      | 717             |                       | 0.6591                                                                         | 0.6591  | 0.6597  | N/A     |
|              |                            | Band 29 (717-728)                                         | 717             |                       | 0.3296                                                                         | 0.3296  | 0.3299  | N/A     |
|              |                            | Summation at boundary                                     |                 | 6.4                   | 0.9887                                                                         | 0.9887  | 0.9895  | N/A     |



| Radio Config | RAT                                        | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|--------------------------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                            |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                            |                                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 17           | LTE 2 bands, (B13/B71)                     | Band 13 (746-756)                     | 746             |                       | 0.4333                                                                         | 0.4333  | 0.4336  | N/A     |
|              |                                            | Band 71 (617-652)                     | 617             |                       | 0.5485                                                                         | 0.5485  | 0.5490  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.4                   | 0.9818                                                                         | 0.9818  | 0.9826  | N/A     |
| 18           | LTE 3 bands, (B5/B8/B28)                   | Band 5 (869-894) / Band 28 (758-803)  | 758             |                       | 0.5320                                                                         | 0.5320  | 0.5324  | N/A     |
|              |                                            | Band 8 (925-960)                      | 925             |                       | 0.4565                                                                         | 0.4565  | 0.4568  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.0                   | 0.9884                                                                         | 0.9884  | 0.9892  | N/A     |
| 18a          | LTE 3 bands, (B5/B8/B28) – Single B5 band  | Band 5 (869-894)                      | 869             |                       | 0.9931                                                                         | 0.9930  | 0.9939  | N/A     |
|              |                                            | Summation at boundary                 |                 | 5.8                   | 0.9931                                                                         | 0.9930  | 0.9939  | N/A     |
| 18b          | LTE 3 bands, (B5/B8/B28) – Single B8 band  | Band 8 (925-960)                      | 925             |                       | 0.9769                                                                         | 0.9769  | 0.9777  | N/A     |
|              |                                            | Summation at boundary                 |                 | 5.8                   | 0.9769                                                                         | 0.9769  | 0.9777  | N/A     |
| 18c          | LTE 3 bands, (B5/B8/B28) – Single B28 band | Band 28 (758-803)                     | 758             |                       | 0.9963                                                                         | 0.9963  | 0.9971  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.2                   | 0.9963                                                                         | 0.9963  | 0.9971  | N/A     |
| 19           | LTE 3 bands, (B8/B20/B28)                  | Band 8 (925-960)                      | 925             |                       | 0.4538                                                                         | 0.4538  | 0.4542  | N/A     |
|              |                                            | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | 0.5289                                                                         | 0.5289  | 0.5293  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.5                   | 0.9827                                                                         | 0.9827  | 0.9835  | N/A     |
| 19a          | LTE 3 bands, (B8/B20/B28) Single B8 band   | Band 8 (925-960)                      | 925             |                       | 0.9975                                                                         | 0.9975  | 0.9984  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.2                   | 0.9975                                                                         | 0.9975  | 0.9984  | N/A     |
| 19b          | LTE 3 bands, (B8/B20/B28) Single B20 band  | Band 20 (791-821)                     | 791             |                       | 0.9831                                                                         | 0.9831  | 0.9839  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.6                   | 0.9831                                                                         | 0.9831  | 0.9839  | N/A     |
| 19c          | LTE 3 bands, (B8/B20/B28) Single B28 band  | Band 28 (758-803)                     | 758             |                       | 0.9955                                                                         | 0.9955  | 0.9963  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.7                   | 0.9955                                                                         | 0.9955  | 0.9963  | N/A     |

**Table 13 – AUSTRALIA Worker/Occupational Combined Exposure**

The calculations show that the EUT complies with the worker/occupational exposure levels described in the listed specifications in Annex A at the compliance boundary shown in the table.



| Radio Config | RAT                       | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|---------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                           |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                           |                                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 1            | LTE 3 bands, (B8/B20/B28) | Band 8 (925-960)                      | 925             |                       | 0.4576                                                                         | 0.4595  | 0.4580  | N/A     |
|              |                           | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | 0.5333                                                                         | 0.5356  | 0.5338  | N/A     |
|              |                           | Summation at boundary                 |                 | 13.4                  | 0.9908                                                                         | 0.9951  | 0.9918  | N/A     |
| 2            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | 0.5028                                                                         | 0.5027  | 0.5019  | N/A     |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | 0.4852                                                                         | 0.4873  | 0.4857  | N/A     |
|              |                           | Summation at boundary                 |                 | 11.2                  | 0.9879                                                                         | 0.9900  | 0.9876  | N/A     |
| 3            | LTE 2 bands, (B66/B25)    | Band 25 (1930-1995)                   | 1930            |                       | 0.5002                                                                         | 0.5023  | 0.5007  | N/A     |
|              |                           | Band 66 (2110-2200)                   | 2110            |                       | 0.4827                                                                         | 0.4827  | 0.4819  | N/A     |
|              |                           | Summation at boundary                 |                 | 13.2                  | 0.9828                                                                         | 0.9850  | 0.9825  | N/A     |
| 4            | LTE 2 bands, (B66a/B25)   | Band 2 (1930-1990)                    | 1930            |                       | 0.5038                                                                         | 0.5060  | 0.5044  | N/A     |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | 0.4862                                                                         | 0.4862  | 0.4854  | N/A     |
|              |                           | Summation at boundary                 |                 | 9.3                   | 0.9901                                                                         | 0.9922  | 0.9898  | N/A     |
| 5            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | 0.4821                                                                         | 0.4841  | 0.4826  | N/A     |
|              |                           | Band 13 (746-756)                     | 746             |                       | 0.5121                                                                         | 0.5143  | 0.5127  | N/A     |
|              |                           | Summation at boundary                 |                 | 15.2                  | 0.9942                                                                         | 0.9985  | 0.9952  | N/A     |
| 6            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | 0.5054                                                                         | 0.5054  | 0.5046  | N/A     |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | 0.4877                                                                         | 0.4898  | 0.4882  | N/A     |
|              |                           | Summation at boundary                 |                 | 12.9                  | 0.9931                                                                         | 0.9952  | 0.9928  | N/A     |
| 7            | LTE 2 bands, (B12/B14)    | Band 12 (729-746)                     | 729             |                       | 0.5059                                                                         | 0.5081  | 0.5064  | N/A     |
|              |                           | Band 14 (758-768)                     | 758             |                       | 0.4865                                                                         | 0.4886  | 0.4870  | N/A     |
|              |                           | Summation at boundary                 |                 | 16.2                  | 0.9924                                                                         | 0.9967  | 0.9934  | N/A     |
| 8            | LTE 2 bands, (B12/B71)    | Band 12 (729-746)                     | 729             |                       | 0.4671                                                                         | 0.4691  | 0.4675  | N/A     |
|              |                           | Band 71 (617-652)                     | 617             |                       | 0.5270                                                                         | 0.5293  | 0.5276  | N/A     |
|              |                           | Summation at boundary                 |                 | 14.6                  | 0.9941                                                                         | 0.9984  | 0.9951  | N/A     |
| 9            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | 0.4775                                                                         | 0.4795  | 0.4780  | N/A     |
|              |                           | Band 13 (746-756)                     | 746             |                       | 0.5073                                                                         | 0.5094  | 0.5078  | N/A     |
|              |                           | Summation at boundary                 |                 | 10.8                  | 0.9847                                                                         | 0.9890  | 0.9857  | N/A     |
| 10           | LTE 2 bands, (B2/B66a)    | Band 2 (1930-1990)                    | 1930            |                       | 0.5002                                                                         | 0.5023  | 0.5007  | N/A     |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | 0.4827                                                                         | 0.4827  | 0.4819  | N/A     |
|              |                           | Summation at boundary                 |                 | 13.2                  | 0.9828                                                                         | 0.9850  | 0.9825  | N/A     |
| 11           | LTE 1 band, (B28)         | Band 28 (758-803)                     | 758             |                       | 0.9851                                                                         | 0.9894  | 0.9861  | N/A     |
|              |                           | Summation at boundary                 |                 | 16.1                  | 0.9851                                                                         | 0.9894  | 0.9861  | N/A     |
| 12           | LTE 2 bands,              | Band 29 (717-728)                     | 717             |                       | 0.5104                                                                         | 0.5126  | 0.5109  | N/A     |



| Radio Config | RAT                                        | Bands                                                     | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|--------------------------------------------|-----------------------------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                            |                                                           |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                            |                                                           |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
|              | (B29/B70)                                  | Band 70 (1995-2020)                                       | 1995            |                       | 0.4781                                                                         | 0.4801  | 0.4785  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 11.5                  | 0.9885                                                                         | 0.9927  | 0.9894  | N/A     |
|              |                                            |                                                           |                 |                       |                                                                                |         |         |         |
| 13           | LTE 2 bands, (B25/B66)                     | Band 25 (1930-1995)                                       | 1930            |                       | 0.6724                                                                         | 0.6753  | 0.6730  | N/A     |
|              |                                            | Band 66 (2110-2200)                                       | 2110            |                       | 0.3244                                                                         | 0.3244  | 0.3239  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 16.1                  | 0.9968                                                                         | 0.9997  | 0.9970  | N/A     |
| 14           | LTE 3 bands, (B12/B14/B29)                 | Band 12 (729-746) / Band 14 (758-768) / Band 29 (717-728) | 717             |                       | 0.5654                                                                         | 0.5678  | 0.5660  | N/A     |
|              |                                            | Band 12 (729-746) / Band 14 (758-768) /                   | 729             |                       | 0.4238                                                                         | 0.4256  | 0.4242  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 17.7                  | 0.9892                                                                         | 0.9934  | 0.9902  | N/A     |
| 15           | LTE 2 bands, (B5/B28)                      | Band 5 (869-894)                                          | 869             |                       | 0.4636                                                                         | 0.4656  | 0.4641  | N/A     |
|              |                                            | Band 28 (758-803)                                         | 758             |                       | 0.5315                                                                         | 0.5338  | 0.5320  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 15.5                  | 0.9951                                                                         | 0.9993  | 0.9961  | N/A     |
| 16           | LTE 2 bands, (B5/B29)                      | Band 5 (869-894) / Band 29 (717-728)                      | 717             |                       | 0.6601                                                                         | 0.6630  | 0.6608  | N/A     |
|              |                                            | Band 29 (717-728)                                         | 717             |                       | 0.3301                                                                         | 0.3315  | 0.3304  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 14.3                  | 0.9902                                                                         | 0.9945  | 0.9912  | N/A     |
| 17           | LTE 2 bands, (B13/B71)                     | Band 13 (746-756)                                         | 746             |                       | 0.4339                                                                         | 0.4358  | 0.4344  | N/A     |
|              |                                            | Band 71 (617-652)                                         | 617             |                       | 0.5494                                                                         | 0.5517  | 0.5499  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 14.3                  | 0.9833                                                                         | 0.9875  | 0.9843  | N/A     |
| 18           | LTE 3 bands, (B5/B8/B28)                   | Band 5 (869-894) / Band 28 (758-803)                      | 758             |                       | 0.5333                                                                         | 0.5356  | 0.5338  | N/A     |
|              |                                            | Band 8 (925-960)                                          | 925             |                       | 0.4576                                                                         | 0.4595  | 0.4580  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 13.4                  | 0.9908                                                                         | 0.9951  | 0.9918  | N/A     |
| 18a          | LTE 3 bands, (B5/B8/B28) – Single B5 band  | Band 5 (869-894)                                          | 869             |                       | 0.9884                                                                         | 0.9926  | 0.9893  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 13.0                  | 0.9884                                                                         | 0.9926  | 0.9893  | N/A     |
| 18b          | LTE 3 bands, (B5/B8/B28) – Single B8 band  | Band 8 (925-960)                                          | 925             |                       | 0.9874                                                                         | 0.9917  | 0.9884  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 12.9                  | 0.9874                                                                         | 0.9917  | 0.9884  | N/A     |
| 18c          | LTE 3 bands, (B5/B8/B28) – Single B28 band | Band 28 (758-803)                                         | 758             |                       | 0.9911                                                                         | 0.9954  | 0.9921  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 13.9                  | 0.9911                                                                         | 0.9954  | 0.9921  | N/A     |
| 19           | LTE 3 bands, (B8/B20/B28)                  | Band 8 (925-960)                                          | 925             |                       | 0.4560                                                                         | 0.4579  | 0.4564  | N/A     |
|              |                                            | Band 20 (791-821) / Band 28 (758-803)                     | 758             |                       | 0.5314                                                                         | 0.5337  | 0.5319  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 14.5                  | 0.9874                                                                         | 0.9916  | 0.9884  | N/A     |
| 19a          | LTE 3 bands,                               | Band 8 (925-960)                                          | 925             |                       | 0.9923                                                                         | 0.9966  | 0.9933  | N/A     |



| Radio Config | RAT                                       | Bands                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|-------------------------------------------|-----------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                           |                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                           |                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
|              | (B8/B20/B28) Single B8 band               | Summation at boundary |                 | 13.9                  | 0.9923                                                                         | 0.9966  | 0.9933  | N/A     |
| 19b          | LTE 3 bands, (B8/B20/B28) Single B20 band | Band 20 (791-821)     | 791             |                       | 0.9909                                                                         | 0.9951  | 0.9918  | N/A     |
|              |                                           | Summation at boundary |                 | 14.7                  | 0.9909                                                                         | 0.9951  | 0.9918  | N/A     |
| 19c          | LTE 3 bands, (B8/B20/B28) Single B28 band | Band 28 (758-803)     | 758             |                       | 0.9930                                                                         | 0.9973  | 0.9940  | N/A     |
|              |                                           | Summation at boundary |                 | 15.0                  | 0.9930                                                                         | 0.9973  | 0.9940  | N/A     |

**Table 14 – AUSTRALIA General Public Combined Exposure**

The calculations show that the EUT complies with the general public exposure levels described in the listed specifications in Annex A at the compliance boundary shown in the table.

### 2.3.5 New Zealand Result

NEW ZEALAND NZS 2772 Part 1 specifies the method of summation in clause 7 with results as follows:

| Radio Config | RAT                       | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|---------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                           |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                           |                                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 1            | LTE 3 bands, (B8/B20/B28) | Band 8 (925-960)                      | 925             |                       | 0.4275                                                                         | 0.4477  | 0.4429  | N/A     |
|              |                           | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | 0.4982                                                                         | 0.5217  | 0.5162  | N/A     |
|              |                           | Summation at boundary                 |                 | 6.2                   | 0.9257                                                                         | 0.9694  | 0.9592  | N/A     |
| 2            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | 0.4849                                                                         | 0.4870  | 0.4963  | N/A     |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | 0.4680                                                                         | 0.4901  | 0.4849  | N/A     |
|              |                           | Summation at boundary                 |                 | 5.1                   | 0.9529                                                                         | 0.9771  | 0.9812  | N/A     |
| 3            | LTE 2 bands, (B66/B25)    | Band 25 (1930-1995)                   | 1930            |                       | 0.4842                                                                         | 0.5070  | 0.5017  | N/A     |
|              |                           | Band 66 (2110-2200)                   | 2110            |                       | 0.4672                                                                         | 0.4692  | 0.4781  | N/A     |
|              |                           | Summation at boundary                 |                 | 6.0                   | 0.9514                                                                         | 0.9762  | 0.9798  | N/A     |
| 4            | LTE 2 bands, (B66a/B25)   | Band 2 (1930-1990)                    | 1930            |                       | 0.4941                                                                         | 0.5174  | 0.5119  | N/A     |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | 0.4768                                                                         | 0.4788  | 0.4879  | N/A     |
|              |                           | Summation at boundary                 |                 | 4.2                   | 0.9709                                                                         | 0.9962  | 0.9999  | N/A     |
| 5            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | 0.4546                                                                         | 0.4761  | 0.4710  | N/A     |
|              |                           | Band 13 (746-756)                     | 746             |                       | 0.4830                                                                         | 0.5058  | 0.5004  | N/A     |
|              |                           | Summation at boundary                 |                 | 7.0                   | 0.9376                                                                         | 0.9818  | 0.9715  | N/A     |



| Radio Config | RAT                        | Bands                                                     | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|----------------------------|-----------------------------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                            |                                                           |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                            |                                                           |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 6            | LTE 2 bands, (B1/B3)       | Band 1 (2110-2170)                                        | 2110            |                       | 0.4832                                                                         | 0.4853  | 0.4945  | N/A     |
|              |                            | Band 3 (1805-1880)                                        | 1805            |                       | 0.4663                                                                         | 0.4883  | 0.4832  | N/A     |
|              |                            | Summation at boundary                                     |                 | 5.9                   | 0.9495                                                                         | 0.9736  | 0.9776  | N/A     |
| 7            | LTE 2 bands, (B12/B14)     | Band 12 (729-746)                                         | 729             |                       | 0.4849                                                                         | 0.5078  | 0.5024  | N/A     |
|              |                            | Band 14 (758-768)                                         | 758             |                       | 0.4664                                                                         | 0.4884  | 0.4832  | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.4                   | 0.9513                                                                         | 0.9962  | 0.9857  | N/A     |
| 8            | LTE 2 bands, (B12/B71)     | Band 12 (729-746)                                         | 729             |                       | 0.4436                                                                         | 0.4645  | 0.4596  | N/A     |
|              |                            | Band 71 (617-652)                                         | 617             |                       | 0.5005                                                                         | 0.5241  | 0.5186  | N/A     |
|              |                            | Summation at boundary                                     |                 | 6.7                   | 0.9441                                                                         | 0.9887  | 0.9782  | N/A     |
| 9            | LTE 2 bands, (B5/B13)      | Band 5 (869-894)                                          | 869             |                       | 0.4455                                                                         | 0.4666  | 0.4617  | N/A     |
|              |                            | Band 13 (746-756)                                         | 746             |                       | 0.4733                                                                         | 0.4957  | 0.4905  | N/A     |
|              |                            | Summation at boundary                                     |                 | 5.0                   | 0.9189                                                                         | 0.9623  | 0.9521  | N/A     |
| 10           | LTE 2 bands, (B2/B66a)     | Band 2 (1930-1990)                                        | 1930            |                       | 0.4842                                                                         | 0.5070  | 0.5017  | N/A     |
|              |                            | Band 66a (2110-2180)                                      | 2110            |                       | 0.4672                                                                         | 0.4692  | 0.4781  | N/A     |
|              |                            | Summation at boundary                                     |                 | 6.0                   | 0.9514                                                                         | 0.9762  | 0.9798  | N/A     |
| 11           | LTE 1 band, (B28)          | Band 28 (758-803)                                         | 758             |                       | 0.9326                                                                         | 0.9767  | 0.9664  | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.4                   | 0.9326                                                                         | 0.9767  | 0.9664  | N/A     |
| 12           | LTE 2 bands, (B29/B70)     | Band 29 (717-728)                                         | 717             |                       | 0.4806                                                                         | 0.5033  | 0.4980  | N/A     |
|              |                            | Band 70 (1995-2020)                                       | 1995            |                       | 0.4501                                                                         | 0.4714  | 0.4664  | N/A     |
|              |                            | Summation at boundary                                     |                 | 5.3                   | 0.9307                                                                         | 0.9747  | 0.9644  | N/A     |
| 13           | LTE 2 bands, (B25/B66)     | Band 25 (1930-1995)                                       | 1930            |                       | 0.6365                                                                         | 0.6666  | 0.6596  | N/A     |
|              |                            | Band 66 (2110-2200)                                       | 2110            |                       | 0.3072                                                                         | 0.3085  | 0.3143  | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.4                   | 0.9437                                                                         | 0.9751  | 0.9739  | N/A     |
| 14           | LTE 3 bands, (B12/B14/B29) | Band 12 (729-746) / Band 14 (758-768) / Band 29 (717-728) | 717             |                       | 0.5400                                                                         | 0.5654  | 0.5595  | N/A     |
|              |                            | Band 12 (729-746) / Band 14 (758-768) /                   | 729             |                       | 0.4047                                                                         | 0.4238  | 0.4194  | N/A     |
|              |                            | Summation at boundary                                     |                 | 8.1                   | 0.9447                                                                         | 0.9893  | 0.9788  | N/A     |
| 15           | LTE 2 bands, (B5/B28)      | Band 5 (869-894)                                          | 869             |                       | 0.4419                                                                         | 0.4627  | 0.4579  | N/A     |
|              |                            | Band 28 (758-803)                                         | 758             |                       | 0.5066                                                                         | 0.5305  | 0.5249  | N/A     |
|              |                            | Summation at boundary                                     |                 | 7.1                   | 0.9485                                                                         | 0.9933  | 0.9828  | N/A     |
| 16           | LTE 2 bands, (B5/B29)      | Band 5 (869-894) / Band 29 (717-728)                      | 717             |                       | 0.6198                                                                         | 0.6490  | 0.6422  | N/A     |
|              |                            | Band 29 (717-728)                                         | 717             |                       | 0.3099                                                                         | 0.3245  | 0.3211  | N/A     |
|              |                            | Summation at boundary                                     |                 | 6.6                   | 0.9297                                                                         | 0.9736  | 0.9633  | N/A     |



| Radio Config | RAT                                        | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|--------------------------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                            |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                            |                                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 17           | LTE 2 bands, (B13/B71)                     | Band 13 (746-756)                     | 746             |                       | 0.4200                                                                         | 0.4399  | 0.4352  | N/A     |
|              |                                            | Band 71 (617-652)                     | 617             |                       | 0.5318                                                                         | 0.5569  | 0.5510  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.5                   | 0.9518                                                                         | 0.9967  | 0.9862  | N/A     |
| 18           | LTE 3 bands, (B5/B8/B28)                   | Band 5 (869-894) / Band 28 (758-803)  | 758             |                       | 0.4982                                                                         | 0.5217  | 0.5162  | N/A     |
|              |                                            | Band 8 (925-960)                      | 925             |                       | 0.4275                                                                         | 0.4477  | 0.4429  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.2                   | 0.9257                                                                         | 0.9694  | 0.9592  | N/A     |
| 18a          | LTE 3 bands, (B5/B8/B28) – Single B5 band  | Band 5 (869-894)                      | 869             |                       | 0.9280                                                                         | 0.9718  | 0.9615  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.0                   | 0.9280                                                                         | 0.9718  | 0.9615  | N/A     |
| 18b          | LTE 3 bands, (B5/B8/B28) – Single B8 band  | Band 8 (925-960)                      | 925             |                       | 0.9441                                                                         | 0.9886  | 0.9782  | N/A     |
|              |                                            | Summation at boundary                 |                 | 5.9                   | 0.9441                                                                         | 0.9886  | 0.9782  | N/A     |
| 18c          | LTE 3 bands, (B5/B8/B28) – Single B28 band | Band 28 (758-803)                     | 758             |                       | 0.9350                                                                         | 0.9792  | 0.9688  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.4                   | 0.9350                                                                         | 0.9792  | 0.9688  | N/A     |
| 19           | LTE 3 bands, (B8/B20/B28)                  | Band 8 (925-960)                      | 925             |                       | 0.4402                                                                         | 0.4609  | 0.4561  | N/A     |
|              |                                            | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | 0.5130                                                                         | 0.5372  | 0.5315  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.6                   | 0.9531                                                                         | 0.9981  | 0.9876  | N/A     |
| 19a          | LTE 3 bands, (B8/B20/B28) Single B8 band   | Band 8 (925-960)                      | 925             |                       | 0.9362                                                                         | 0.9803  | 0.9700  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.4                   | 0.9362                                                                         | 0.9803  | 0.9700  | N/A     |
| 19b          | LTE 3 bands, (B8/B20/B28) Single B20 band  | Band 20 (791-821)                     | 791             |                       | 0.9539                                                                         | 0.9990  | 0.9884  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.7                   | 0.9539                                                                         | 0.9990  | 0.9884  | N/A     |
| 19c          | LTE 3 bands, (B8/B20/B28) Single B28 band  | Band 28 (758-803)                     | 758             |                       | 0.9386                                                                         | 0.9829  | 0.9725  | N/A     |
|              |                                            | Summation at boundary                 |                 | 6.9                   | 0.9386                                                                         | 0.9829  | 0.9725  | N/A     |

**Table 15 – NEW ZEALAND Worker/Occupational Combined Exposure**

The calculations show that the EUT complies with the worker/occupational exposure levels described in in the listed specifications in Annex A at the compliance boundary shown in the table.



| Radio Config | RAT                       | Bands                                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|---------------------------|---------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                           |                                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                           |                                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
| 1            | LTE 3 bands, (B8/B20/B28) | Band 8 (925-960)                      | 925             |                       | 0.4576                                                                         | 0.4562  | 0.4433  | N/A     |
|              |                           | Band 20 (791-821) / Band 28 (758-803) | 758             |                       | 0.5333                                                                         | 0.5317  | 0.5166  | N/A     |
|              |                           | Summation at boundary                 |                 | 13.4                  | 0.9908                                                                         | 0.9879  | 0.9599  | N/A     |
| 2            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | 0.5028                                                                         | 0.5094  | 0.5209  | N/A     |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | 0.4852                                                                         | 0.4837  | 0.4700  | N/A     |
|              |                           | Summation at boundary                 |                 | 11.2                  | 0.9879                                                                         | 0.9931  | 0.9910  | N/A     |
| 3            | LTE 2 bands, (B66/B25)    | Band 25 (1930-1995)                   | 1930            |                       | 0.5002                                                                         | 0.4987  | 0.4846  | N/A     |
|              |                           | Band 66 (2110-2200)                   | 2110            |                       | 0.4827                                                                         | 0.4890  | 0.5001  | N/A     |
|              |                           | Summation at boundary                 |                 | 13.2                  | 0.9828                                                                         | 0.9877  | 0.9847  | N/A     |
| 4            | LTE 2 bands, (B66a/B25)   | Band 2 (1930-1990)                    | 1930            |                       | 0.5038                                                                         | 0.5023  | 0.4881  | N/A     |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | 0.4862                                                                         | 0.4926  | 0.5038  | N/A     |
|              |                           | Summation at boundary                 |                 | 9.3                   | 0.9901                                                                         | 0.9949  | 0.9919  | N/A     |
| 5            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | 0.4821                                                                         | 0.4806  | 0.4670  | N/A     |
|              |                           | Band 13 (746-756)                     | 746             |                       | 0.5121                                                                         | 0.5106  | 0.4962  | N/A     |
|              |                           | Summation at boundary                 |                 | 15.2                  | 0.9942                                                                         | 0.9912  | 0.9632  | N/A     |
| 6            | LTE 2 bands, (B1/B3)      | Band 1 (2110-2170)                    | 2110            |                       | 0.5054                                                                         | 0.5120  | 0.5236  | N/A     |
|              |                           | Band 3 (1805-1880)                    | 1805            |                       | 0.4877                                                                         | 0.4862  | 0.4725  | N/A     |
|              |                           | Summation at boundary                 |                 | 12.9                  | 0.9931                                                                         | 0.9983  | 0.9961  | N/A     |
| 7            | LTE 2 bands, (B12/B14)    | Band 12 (729-746)                     | 729             |                       | 0.5059                                                                         | 0.5044  | 0.4901  | N/A     |
|              |                           | Band 14 (758-768)                     | 758             |                       | 0.4865                                                                         | 0.4851  | 0.4714  | N/A     |
|              |                           | Summation at boundary                 |                 | 16.2                  | 0.9924                                                                         | 0.9895  | 0.9615  | N/A     |
| 8            | LTE 2 bands, (B12/B71)    | Band 12 (729-746)                     | 729             |                       | 0.4671                                                                         | 0.4657  | 0.4525  | N/A     |
|              |                           | Band 71 (617-652)                     | 617             |                       | 0.5270                                                                         | 0.5254  | 0.5106  | N/A     |
|              |                           | Summation at boundary                 |                 | 14.6                  | 0.9941                                                                         | 0.9911  | 0.9631  | N/A     |
| 9            | LTE 2 bands, (B5/B13)     | Band 5 (869-894)                      | 869             |                       | 0.4775                                                                         | 0.4760  | 0.4626  | N/A     |
|              |                           | Band 13 (746-756)                     | 746             |                       | 0.5073                                                                         | 0.5057  | 0.4914  | N/A     |
|              |                           | Summation at boundary                 |                 | 10.8                  | 0.9847                                                                         | 0.9818  | 0.9540  | N/A     |
| 10           | LTE 2 bands, (B2/B66a)    | Band 2 (1930-1990)                    | 1930            |                       | 0.5002                                                                         | 0.4987  | 0.4846  | N/A     |
|              |                           | Band 66a (2110-2180)                  | 2110            |                       | 0.4827                                                                         | 0.4890  | 0.5001  | N/A     |
|              |                           | Summation at boundary                 |                 | 13.2                  | 0.9828                                                                         | 0.9877  | 0.9847  | N/A     |
| 11           | LTE 1 band, (B28)         | Band 28 (758-803)                     | 758             |                       | 0.9975                                                                         | 0.9945  | 0.9664  | N/A     |
|              |                           | Summation at boundary                 |                 | 16.0                  | 0.9975                                                                         | 0.9945  | 0.9664  | N/A     |
| 12           | LTE 2 bands,              | Band 29 (717-728)                     | 717             |                       | 0.5104                                                                         | 0.5089  | 0.4945  | N/A     |



| Radio Config | RAT                                        | Bands                                                     | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|--------------------------------------------|-----------------------------------------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                            |                                                           |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                            |                                                           |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
|              | (B29/B70)                                  | Band 70 (1995-2020)                                       | 1995            |                       | 0.4781                                                                         | 0.4766  | 0.4631  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 11.5                  | 0.9885                                                                         | 0.9855  | 0.9576  | N/A     |
|              |                                            |                                                           |                 |                       |                                                                                |         |         |         |
| 13           | LTE 2 bands, (B25/B66)                     | Band 25 (1930-1995)                                       | 1930            |                       | 0.6724                                                                         | 0.6704  | 0.6514  | N/A     |
|              |                                            | Band 66 (2110-2200)                                       | 2110            |                       | 0.3244                                                                         | 0.3287  | 0.3362  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 16.1                  | 0.9968                                                                         | 0.9991  | 0.9876  | N/A     |
| 14           | LTE 3 bands, (B12/B14/B29)                 | Band 12 (729-746) / Band 14 (758-768) / Band 29 (717-728) | 717             |                       | 0.5654                                                                         | 0.5637  | 0.5478  | N/A     |
|              |                                            | Band 12 (729-746) / Band 14 (758-768) /                   | 729             |                       | 0.4238                                                                         | 0.4225  | 0.4106  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 17.7                  | 0.9892                                                                         | 0.9862  | 0.9583  | N/A     |
| 15           | LTE 2 bands, (B5/B28)                      | Band 5 (869-894)                                          | 869             |                       | 0.4636                                                                         | 0.4622  | 0.4491  | N/A     |
|              |                                            | Band 28 (758-803)                                         | 758             |                       | 0.5315                                                                         | 0.5299  | 0.5149  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 15.5                  | 0.9951                                                                         | 0.9921  | 0.9640  | N/A     |
| 16           | LTE 2 bands, (B5/B29)                      | Band 5 (869-894) / Band 29 (717-728)                      | 717             |                       | 0.6601                                                                         | 0.6581  | 0.6395  | N/A     |
|              |                                            | Band 29 (717-728)                                         | 717             |                       | 0.3301                                                                         | 0.3291  | 0.3198  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 14.3                  | 0.9902                                                                         | 0.9872  | 0.9593  | N/A     |
| 17           | LTE 2 bands, (B13/B71)                     | Band 13 (746-756)                                         | 746             |                       | 0.4401                                                                         | 0.4387  | 0.4263  | N/A     |
|              |                                            | Band 71 (617-652)                                         | 617             |                       | 0.5571                                                                         | 0.5555  | 0.5398  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 14.2                  | 0.9972                                                                         | 0.9942  | 0.9661  | N/A     |
| 18           | LTE 3 bands, (B5/B8/B28)                   | Band 5 (869-894) / Band 28 (758-803)                      | 758             |                       | 0.5333                                                                         | 0.5317  | 0.5166  | N/A     |
|              |                                            | Band 8 (925-960)                                          | 925             |                       | 0.4576                                                                         | 0.4562  | 0.4433  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 13.4                  | 0.9908                                                                         | 0.9879  | 0.9599  | N/A     |
| 18a          | LTE 3 bands, (B5/B8/B28) – Single B5 band  | Band 5 (869-894)                                          | 869             |                       | 0.9884                                                                         | 0.9854  | 0.9575  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 13.0                  | 0.9884                                                                         | 0.9854  | 0.9575  | N/A     |
| 18b          | LTE 3 bands, (B5/B8/B28) – Single B8 band  | Band 8 (925-960)                                          | 925             |                       | 0.9874                                                                         | 0.9845  | 0.9566  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 12.9                  | 0.9874                                                                         | 0.9845  | 0.9566  | N/A     |
| 18c          | LTE 3 bands, (B5/B8/B28) – Single B28 band | Band 28 (758-803)                                         | 758             |                       | 0.9911                                                                         | 0.9881  | 0.9602  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 13.9                  | 0.9911                                                                         | 0.9881  | 0.9602  | N/A     |
| 19           | LTE 3 bands, (B8/B20/B28)                  | Band 8 (925-960)                                          | 925             |                       | 0.4560                                                                         | 0.4546  | 0.4418  | N/A     |
|              |                                            | Band 20 (791-821) / Band 28 (758-803)                     | 758             |                       | 0.5314                                                                         | 0.5298  | 0.5148  | N/A     |
|              |                                            | Summation at boundary                                     |                 | 14.5                  | 0.9874                                                                         | 0.9844  | 0.9566  | N/A     |
| 19a          | LTE 3 bands,                               | Band 8 (925-960)                                          | 925             |                       | 0.9923                                                                         | 0.9893  | 0.9614  | N/A     |



| Radio Config | RAT                                       | Bands                 | Frequency (MHz) | Compliance Boundary m | Calculated RF exposure level at compliance boundary as a fraction of the limit |         |         |         |
|--------------|-------------------------------------------|-----------------------|-----------------|-----------------------|--------------------------------------------------------------------------------|---------|---------|---------|
|              |                                           |                       |                 |                       | S Power Density                                                                | E Field | H Field | B Field |
|              |                                           |                       |                 |                       | Summation for simultaneous exposure; value to be <1                            |         |         |         |
|              | (B8/B20/B28) Single B8 band               | Summation at boundary |                 | 13.9                  | 0.9923                                                                         | 0.9893  | 0.9614  | N/A     |
| 19b          | LTE 3 bands, (B8/B20/B28) Single B20 band | Band 20 (791-821)     | 791             |                       | 0.9909                                                                         | 0.9879  | 0.9599  | N/A     |
|              |                                           | Summation at boundary |                 | 14.7                  | 0.9909                                                                         | 0.9879  | 0.9599  | N/A     |
| 19c          | LTE 3 bands, (B8/B20/B28) Single B28 band | Band 28 (758-803)     | 758             |                       | 0.9930                                                                         | 0.9901  | 0.9621  | N/A     |
|              |                                           | Summation at boundary |                 | 15.0                  | 0.9930                                                                         | 0.9901  | 0.9621  | N/A     |

**Table 16 – NEW ZEALAND General Public Combined Exposure**

The calculations show that the EUT complies with the general public exposure levels described in the listed specifications in Annex A at the compliance boundary shown in the table.

## 2.4 Limits

The following table shows the exposure requirements for the frequencies used in the RF exposure calculation. A full list of the requirements is shown in Annex A.

| Exposure Requirement | Frequency (MHz) | Worker/Occupational Limit           |               |               |              | General Public Limit                |               |               |              |
|----------------------|-----------------|-------------------------------------|---------------|---------------|--------------|-------------------------------------|---------------|---------------|--------------|
|                      |                 | S Power Density (W/m <sup>2</sup> ) | E Field (V/m) | H Field (A/m) | B Field (μT) | S Power Density (W/m <sup>2</sup> ) | E Field (V/m) | H Field (A/m) | B Field (μT) |
| EU                   | 617             | N/A                                 | 74.52         | N/A           | 0.2484       | 3.09                                | 34.15         | 0.0919        | 0.1143       |
|                      | 717             | N/A                                 | 80.33         | N/A           | 0.2678       | 3.59                                | 36.82         | 0.0991        | 0.1232       |
|                      | 729             | N/A                                 | 81.00         | N/A           | 0.2700       | 3.65                                | 37.13         | 0.0999        | 0.1242       |
|                      | 746             | N/A                                 | 81.94         | N/A           | 0.2731       | 3.73                                | 37.56         | 0.1011        | 0.1256       |
|                      | 758             | N/A                                 | 82.60         | N/A           | 0.2753       | 3.79                                | 37.86         | 0.1019        | 0.1266       |
|                      | 791             | N/A                                 | 84.37         | N/A           | 0.2812       | 3.96                                | 38.67         | 0.1041        | 0.1294       |
|                      | 869             | N/A                                 | 88.44         | N/A           | 0.2948       | 4.35                                | 40.53         | 0.1091        | 0.1356       |
|                      | 925             | N/A                                 | 91.24         | N/A           | 0.3041       | 4.63                                | 41.82         | 0.1125        | 0.1399       |
|                      | 1805            | N/A                                 | 127.46        | N/A           | 0.4249       | 9.03                                | 58.42         | 0.1572        | 0.1954       |
|                      | 1930            | N/A                                 | 131.80        | N/A           | 0.4393       | 9.65                                | 60.41         | 0.1625        | 0.2021       |
|                      | 1995            | N/A                                 | 134.00        | N/A           | 0.4467       | 9.98                                | 61.41         | 0.1653        | 0.2055       |
|                      | 2110            | N/A                                 | 140.00        | N/A           | 0.4500       | 10.00                               | 61.00         | 0.1600        | 0.2000       |
| FCC                  | 617             | 20.57                               | N/A           | N/A           | N/A          | 4.11                                | N/A           | N/A           | N/A          |
|                      | 717             | 23.90                               | N/A           | N/A           | N/A          | 4.78                                | N/A           | N/A           | N/A          |
|                      | 729             | 24.30                               | N/A           | N/A           | N/A          | 4.86                                | N/A           | N/A           | N/A          |
|                      | 746             | 24.87                               | N/A           | N/A           | N/A          | 4.97                                | N/A           | N/A           | N/A          |
|                      | 758             | 25.27                               | N/A           | N/A           | N/A          | 5.05                                | N/A           | N/A           | N/A          |



| Exposure Requirement | Frequency (MHz) | Worker/Occupational Limit           |               |               |              | General Public Limit                |               |               |              |
|----------------------|-----------------|-------------------------------------|---------------|---------------|--------------|-------------------------------------|---------------|---------------|--------------|
|                      |                 | S Power Density (W/m <sup>2</sup> ) | E Field (V/m) | H Field (A/m) | B Field (μT) | S Power Density (W/m <sup>2</sup> ) | E Field (V/m) | H Field (A/m) | B Field (μT) |
|                      | 791             | 26.37                               | N/A           | N/A           | N/A          | 5.27                                | N/A           | N/A           | N/A          |
|                      | 869             | 28.97                               | N/A           | N/A           | N/A          | 5.79                                | N/A           | N/A           | N/A          |
|                      | 925             | 30.83                               | N/A           | N/A           | N/A          | 6.17                                | N/A           | N/A           | N/A          |
|                      | 1805            | 50                                  | N/A           | N/A           | N/A          | 10.00                               | N/A           | N/A           | N/A          |
|                      | 1930            | 50                                  | N/A           | N/A           | N/A          | 10.00                               | N/A           | N/A           | N/A          |
|                      | 1995            | 50.00                               | N/A           | N/A           | N/A          | 10.00                               | N/A           | N/A           | N/A          |
|                      | 2110            | 50                                  | N/A           | N/A           | N/A          | 10.00                               | N/A           | N/A           | N/A          |
|                      |                 |                                     |               |               |              |                                     |               |               |              |
| CANADA               | 617             | 16.03                               | 77.75         | 0.2062        | N/A          | 2.11                                | 28.23         | 0.0749        | N/A          |
|                      | 717             | 17.28                               | 80.72         | 0.2141        | N/A          | 2.34                                | 29.71         | 0.0788        | N/A          |
|                      | 729             | 17.43                               | 81.06         | 0.2150        | N/A          | 2.37                                | 29.88         | 0.0793        | N/A          |
|                      | 746             | 17.63                               | 81.53         | 0.2163        | N/A          | 2.41                                | 30.12         | 0.0799        | N/A          |
|                      | 758             | 17.77                               | 81.85         | 0.2171        | N/A          | 2.43                                | 30.28         | 0.0803        | N/A          |
|                      | 791             | 18.15                               | 82.73         | 0.2194        | N/A          | 2.50                                | 30.73         | 0.0815        | N/A          |
|                      | 869             | 19.03                               | 84.70         | 0.2247        | N/A          | 2.67                                | 31.73         | 0.0842        | N/A          |
|                      | 925             | 19.63                               | 86.03         | 0.2282        | N/A          | 2.79                                | 32.41         | 0.0860        | N/A          |
|                      | 1805            | 27.42                               | 0.00          | 0.2697        | N/A          | 4.40                                | 40.73         | 0.1081        | N/A          |
|                      | 1930            | 28.36                               | 103.40        | 0.2743        | N/A          | 4.61                                | 41.68         | 0.1106        | N/A          |
|                      | 1995            | 28.83                               | 104.26        | 0.2766        | N/A          | 4.71                                | 42.15         | 0.1118        | N/A          |
|                      | 2110            | 29.65                               | 0.00          | 0.2805        | N/A          | 4.90                                | 42.96         | 0.1140        | N/A          |
| AUSTRALIA            | 617             | 15.43                               | 76.26         | 0.2022        | N/A          | 3.09                                | 34.03         | 0.0904        | N/A          |
|                      | 717             | 17.93                               | 82.20         | 0.2180        | N/A          | 3.59                                | 36.68         | 0.0975        | N/A          |
|                      | 729             | 18.23                               | 82.89         | 0.2198        | N/A          | 3.65                                | 36.99         | 0.0983        | N/A          |
|                      | 746             | 18.65                               | 83.85         | 0.2223        | N/A          | 3.73                                | 37.42         | 0.0994        | N/A          |
|                      | 758             | 18.95                               | 84.52         | 0.2241        | N/A          | 3.79                                | 37.72         | 0.1002        | N/A          |
|                      | 791             | 19.78                               | 86.34         | 0.2289        | N/A          | 3.96                                | 38.53         | 0.1024        | N/A          |
|                      | 869             | 21.73                               | 90.50         | 0.2400        | N/A          | 4.35                                | 40.39         | 0.1073        | N/A          |
|                      | 925             | 23.13                               | 93.37         | 0.2475        | N/A          | 4.63                                | 41.67         | 0.1107        | N/A          |
|                      | 1805            | 45.125                              | 130.43        | 0.3458        | N/A          | 9.03                                | 58.20         | 0.1546        | N/A          |
|                      | 1930            | 48.25                               | 134.87        | 0.3576        | N/A          | 9.65                                | 60.19         | 0.1599        | N/A          |
|                      | 1995            | 49.88                               | 137.12        | 0.3636        | N/A          | 9.98                                | 61.19         | 0.1626        | N/A          |
|                      | 2110            | 50                                  | 137.00        | 0.364         | N/A          | 10.00                               | 61.40         | 0.1630        | N/A          |
| NEW ZEALAND          | 617             | 15.43                               | 74.52         | 0.1987        | N/A          | 3.09                                | 34.15         | 0.0919        | N/A          |
|                      | 717             | 17.93                               | 80.33         | 0.2142        | N/A          | 3.59                                | 36.82         | 0.0991        | N/A          |
|                      | 729             | 18.23                               | 81.00         | 0.2160        | N/A          | 3.65                                | 37.13         | 0.0999        | N/A          |
|                      | 746             | 18.65                               | 81.94         | 0.2185        | N/A          | 3.73                                | 37.56         | 0.1011        | N/A          |
|                      | 758             | 18.95                               | 82.60         | 0.2202        | N/A          | 3.79                                | 37.86         | 0.1019        | N/A          |
|                      | 791             | 19.78                               | 84.37         | 0.2250        | N/A          | 3.96                                | 38.67         | 0.1041        | N/A          |



| Exposure Requirement | Frequency (MHz) | Worker/Occupational Limit           |               |               |              | General Public Limit                |               |               |              |
|----------------------|-----------------|-------------------------------------|---------------|---------------|--------------|-------------------------------------|---------------|---------------|--------------|
|                      |                 | S Power Density (W/m <sup>2</sup> ) | E Field (V/m) | H Field (A/m) | B Field (μT) | S Power Density (W/m <sup>2</sup> ) | E Field (V/m) | H Field (A/m) | B Field (μT) |
|                      | 869             | 21.73                               | 88.44         | 0.2358        | N/A          | 4.35                                | 40.53         | 0.1091        | N/A          |
|                      | 925             | 23.13                               | 91.24         | 0.2433        | N/A          | 4.63                                | 41.82         | 0.1125        | N/A          |
|                      | 1805            | 45.125                              | 127.46        | 0.3399        | N/A          | 9.03                                | 58.42         | 0.1572        | N/A          |
|                      | 1930            | 48.25                               | 131.80        | 0.3515        | N/A          | 9.65                                | 60.41         | 0.1625        | N/A          |
|                      | 1995            | 49.88                               | 134.00        | 0.3573        | N/A          | 9.98                                | 61.41         | 0.1653        | N/A          |
|                      | 2110            | 50                                  | 137.00        | 0.36          | N/A          | 10.00                               | 61.00         | 0.1600        | N/A          |

**Table 17 - Limits**

## 2.5 Additional Product Installation Calculation Results

The results for the EU product installation compliance in accordance with EN 62232:2017 Table 2 are:

| Exposure Requirement | Standard Reference  | Radio Config | RAT                        | Frequency MHz | Compliance Distance D <sub>m</sub> (m) | Minimum Height H <sub>m</sub> (m) |
|----------------------|---------------------|--------------|----------------------------|---------------|----------------------------------------|-----------------------------------|
| EU                   | EN 62232 Para 6.2.4 | 1            | LTE 3 bands, (B8/B20/B28)  | 925 / 758     | 26.7                                   | 17.7                              |
| EU                   | EN 62232 Para 6.2.4 | 2            | LTE 2 bands, (B1/B3)       | 2110 / 1805   | 22.5                                   | 15.2                              |
| EU                   | EN 62232 Para 6.2.4 | 3            | LTE 2 bands, (B66/B25)     | 1930 / 2110   | 26.5                                   | 17.3                              |
| EU                   | EN 62232 Para 6.2.4 | 4            | LTE 2 bands, (B66a/B25)    | 1930 / 2110   | 18.7                                   | 13.0                              |
| EU                   | EN 62232 Para 6.2.4 | 5            | LTE 2 bands, (B5/B13)      | 869 / 746     | 30.4                                   | 21.3                              |
| EU                   | EN 62232 Para 6.2.4 | 6            | LTE 2 bands, (B1/B3)       | 2110 / 1805   | 26.0                                   | 17.2                              |
| EU                   | EN 62232 Para 6.2.4 | 7            | LTE 2 bands, (B12/B14)     | 729 / 758     | 32.3                                   | 20.2                              |
| EU                   | EN 62232 Para 6.2.4 | 8            | LTE 2 bands, (B12/B71)     | 729 / 617     | 29.2                                   | 18.7                              |
| EU                   | EN 62232 Para 6.2.4 | 9            | LTE 2 bands, (B5/B13)      | 869 / 746     | 21.5                                   | 15.6                              |
| EU                   | EN 62232 Para 6.2.4 | 10           | LTE 2 bands, (B2/B66a)     | 1930 / 2110   | 26.5                                   | 17.5                              |
| EU                   | EN 62232 Para 6.2.4 | 11           | LTE 1 band, (B28)          | 759           | 32.0                                   | 20.0                              |
| EU                   | EN 62232 Para 6.2.4 | 12           | LTE 2 bands, (B29/B70)     | 717 / 1995    | 22.9                                   | 15.1                              |
| EU                   | EN 62232 Para 6.2.4 | 13           | LTE 2 bands, (B25/B66)     | 1930 / 2110   | 32.3                                   | 20.8                              |
| EU                   | EN 62232 Para 6.2.4 | 14           | LTE 3 bands, (B12/B14/B29) | 717 / 729     | 35.3                                   | 21.8                              |
| EU                   | EN 62232 Para 6.2.4 | 15           | LTE 2 bands, (B5/B28)      | 869 / 758     | 31.0                                   | 20.3                              |



| Exposure Requirement | Standard Reference     | Radio Config | RAT                                                  | Frequency MHz | Compliance Distance D <sub>m</sub> (m) | Minimum Height H <sub>m</sub> (m) |
|----------------------|------------------------|--------------|------------------------------------------------------|---------------|----------------------------------------|-----------------------------------|
| EU                   | EN 62232<br>Para 6.2.4 | 16           | LTE 2 bands,<br>(B5/B29)                             | 717 / 717     | 28.5                                   | 19.2                              |
| EU                   | EN 62232<br>Para 6.2.4 | 17           | LTE 2 bands,<br>(B13/B71)                            | 746 / 617     | 28.4                                   | 19.3                              |
| EU                   | EN 62232<br>Para 6.2.4 | 18           | LTE 3 bands,<br>(B5/B8/B28)                          | 758 / 925     | 26.7                                   | 17.7                              |
| EU                   | EN 62232<br>Para 6.2.4 | 18a          | LTE 3 bands,<br>(B5/B8/B28) –<br>Single B5<br>band   | 869           | 25.9                                   | 18.1                              |
| EU                   | EN 62232<br>Para 6.2.4 | 18b          | LTE 3 bands,<br>(B5/B8/B28) –<br>Single B8<br>band   | 925           | 25.7                                   | 17.8                              |
| EU                   | EN 62232<br>Para 6.2.4 | 18c          | LTE 3 bands,<br>(B5/B8/B28) –<br>Single B28<br>band  | 758           | 27.7                                   | 17.6                              |
| EU                   | EN 62232<br>Para 6.2.4 | 19           | LTE 3 bands,<br>(B8/B20/B28)                         | 925 / 758     | 28.9                                   | 19.0                              |
| EU                   | EN 62232<br>Para 6.2.4 | 19a          | LTE 3 bands,<br>(B8/B20/B28) –<br>Single B8<br>band  | 925           | 27.7                                   | 19.1                              |
| EU                   | EN 62232<br>Para 6.2.4 | 19b          | LTE 3 bands,<br>(B8/B20/B28) –<br>Single B20<br>band | 791           | 29.3                                   | 20.6                              |
| EU                   | EN 62232<br>Para 6.2.4 | 19c          | LTE 3 bands,<br>(B8/B20/B28) –<br>Single B28<br>band | 758           | 29.9                                   | 18.8                              |

**Table 18 – Product Installation Compliance Data**



## 2.6 Far Field Region Boundary Results

The far field region boundary calculation result is shown in Table 19:

| Near Field / Far Field Boundary<br>(Ref: EN 62232 Annex A, IEEE C95.3 Annex B.2, Technical Guide for Interpretation and Compliance Assessment of Health Canada's Radiofrequency Exposure Guidelines 7.1, AS/NZS 2772.2 Appendix B) |               |                                                         |                                                                                                       |                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------|
| RAT Name                                                                                                                                                                                                                           | Frequency MHz | Reactive Near Field Boundary (Wave Impedance Dependent) | Boundary of validity for calculation (Calculation overestimates within boundary). Maximum is boundary |                                           |
|                                                                                                                                                                                                                                    |               | $\lambda/4$ (m)                                         | Rayleigh Range Boundary $2D^2/\lambda$ (m)                                                            | Alternative boundary $D/2+2.5\lambda$ (m) |
| LTE band 1                                                                                                                                                                                                                         | 2110          | 0.0355                                                  | 29.6568                                                                                               | 1.0815                                    |
| LTE band 2                                                                                                                                                                                                                         | 1930          | 0.0389                                                  | 27.1268                                                                                               | 1.1146                                    |
| LTE band 3                                                                                                                                                                                                                         | 1805          | 0.0416                                                  | 25.3699                                                                                               | 1.1415                                    |
| LTE band 5                                                                                                                                                                                                                         | 869           | 0.0863                                                  | 23.1502                                                                                               | 1.8626                                    |
| LTE band 8                                                                                                                                                                                                                         | 925           | 0.0811                                                  | 24.6420                                                                                               | 1.8103                                    |
| LTE band 12                                                                                                                                                                                                                        | 729           | 0.1029                                                  | 28.8634                                                                                               | 2.2473                                    |
| LTE band 13                                                                                                                                                                                                                        | 746           | 0.1005                                                  | 19.8734                                                                                               | 2.0049                                    |
| LTE band 14                                                                                                                                                                                                                        | 758           | 0.0989                                                  | 30.0116                                                                                               | 2.2079                                    |
| LTE band 20                                                                                                                                                                                                                        | 791           | 0.0948                                                  | 31.3182                                                                                               | 2.1667                                    |
| LTE band 25                                                                                                                                                                                                                        | 1930          | 0.0389                                                  | 27.1268                                                                                               | 1.1146                                    |
| LTE band 28                                                                                                                                                                                                                        | 758           | 0.0989                                                  | 30.0116                                                                                               | 2.2079                                    |
| LTE band 29                                                                                                                                                                                                                        | 717           | 0.1046                                                  | 28.3883                                                                                               | 2.2645                                    |
| LTE band 66                                                                                                                                                                                                                        | 2110          | 0.0355                                                  | 29.6568                                                                                               | 1.0815                                    |
| LTE band 66a                                                                                                                                                                                                                       | 2110          | 0.0355                                                  | 29.6568                                                                                               | 1.0815                                    |
| LTE band 70                                                                                                                                                                                                                        | 1995          | 0.0376                                                  | 28.0404                                                                                               | 1.1019                                    |
| LTE band 71                                                                                                                                                                                                                        | 617           | 0.1216                                                  | 24.4290                                                                                               | 2.4341                                    |

**Table 19 – Far Field Boundary**

The table below shows the maximum calculated near field / far field region boundaries. The compliance boundary of 4.2 m (minimum) is in the radiating near field region and therefore, the approach described in section 2.1 is an over estimate of the exposure and therefore a conservative assessment.



| Field Region                 | Reactive Near Field Region                                        | Radiating Near Field Region                    | Far Field Region      |
|------------------------------|-------------------------------------------------------------------|------------------------------------------------|-----------------------|
| Maximum Boundary             | < 0.1216 m                                                        | 0.1216 m – 31.3182 m                           | > 31.3182 m           |
| Validity of Regions          | Spherical model potential under-estimate: SAR assessment required | Spherical model over-estimate and conservative | Spherical model valid |
| Compliance Boundary Location | N/A                                                               | 4.2 m                                          | N/A                   |

**Table 20 – Assessment Method Validity**

## 2.7 Uncertainty

The basic computation formulas presented in section 2.1 are conservative formulas for the estimation of RF field strength or power density. No uncertainty estimations are required when using these formulas but there is clear guidance on where and when these formulas are applicable. (Reference EN 62232 clause B.4.1).

For the estimate of S, E or H to be conservative, the transmitter power P and antenna gain  $G_i$  values shall be the upper bounds of uncertainty therefore maximum values are used.

The spherical formula is valid under far field conditions which are established in section 2.6.



## **ANNEX A**

### **EXPOSURE REQUIREMENTS**



| Frequency Range (MHz) | Power Density (W/m <sup>2</sup> ) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m)<br>(Converted from μT) | Magnetic Flux Density (μT) |
|-----------------------|-----------------------------------|-------------------------------|------------------------------------------------------|----------------------------|
| 0.1 - 1               | -                                 | 610                           | N/A                                                  | 2/f                        |
| 1 - 10                | -                                 | 610/f                         | N/A                                                  | 2/f                        |
| 10 - 400              |                                   | 61                            | N/A                                                  | 0.2                        |
| 400 - 2000            |                                   | $3 \cdot f^{0.5}$             | N/A                                                  | $1E-2 \cdot f^{0.5}$       |
| 2000 - 6000           |                                   | 140                           | N/A                                                  | 0.45                       |
| 6000 - 300000         | 50                                | 140                           | N/A                                                  | 0.45                       |

**Table A.1 – EU: Action levels in Directive 2013/35/EU Annex III Table B1 Worker/Occupational Limits**

| Frequency Range (MHz) | Power Density (W/m <sup>2</sup> ) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Magnetic Flux Density (μT) |
|-----------------------|-----------------------------------|-------------------------------|-------------------------------|----------------------------|
| 0.003 - 0.15          | -                                 | 87                            | 5                             | 6.25                       |
| 0.15 - 1              | -                                 | 87                            | 0.73/f                        | 0.92/f                     |
| 1 - 10                | -                                 | $87/f^{0.5}$                  | 0.73/f                        | 0.92/f                     |
| 10 - 400              | 2                                 | 28                            | 0.073                         | 0.092                      |
| 400 - 2000            | f/200                             | $1.375 \cdot f^{0.5}$         | $0.0037 \cdot f^{0.5}$        | $0.0046 \cdot f^{0.5}$     |
| 2000 - 300000         | 10                                | 61                            | 0.16                          | 0.2                        |

**Table A.2 – EU: Council Recommendation 1999/519/EC Annex II Table 1 General Public Limits**

| Frequency Range (MHz) | Power Density (mW/cm <sup>2</sup> ) <sup>Note 1</sup> | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) |
|-----------------------|-------------------------------------------------------|-------------------------------|-------------------------------|
| 0 - 0.3               | -                                                     | -                             | -                             |
| 0.3 - 3               | 100                                                   | 614                           | 1.63                          |
| 3 - 30                | $900/f^2$                                             | $1842/f$                      | $4.89/f$                      |
| 30 - 300              | 1                                                     | 61.4                          | 0.163                         |
| 300 - 1500            | f/300                                                 | -                             | -                             |
| 1500 - 100000         | 5                                                     | -                             | -                             |

**Table A.3 – CFR 47 Pt1.1310 (2017) Worker/Occupational Limits**

| Frequency Range (MHz) | Power Density (mW/cm <sup>2</sup> ) <sup>Note 1</sup> | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) |
|-----------------------|-------------------------------------------------------|-------------------------------|-------------------------------|
| 0 - 0.3               | -                                                     | -                             | -                             |
| 0.3 - 3               | 100                                                   | 614                           | 1.63                          |
| 3 - 30                | $180/f^2$                                             | $824/f$                       | $2.19/f$                      |
| 30 - 300              | 0.2                                                   | 27.5                          | 0.073                         |
| 300 - 1500            | f/1500                                                | -                             | -                             |
| 1500 - 100000         | 1                                                     | -                             | -                             |



**Table A.4 – CFR 47 Pt1.1310 (2017) General Public Limits**

Note 1: The calculations and limits presented in this report for power density are in units of W/m<sup>2</sup>. The conversion factor is; 1 mW/cm<sup>2</sup> = 10 W/m<sup>2</sup>.

| Frequency Range (MHz) | Power Density (W/m <sup>2</sup> ) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) |
|-----------------------|-----------------------------------|-------------------------------|-------------------------------|
| 10 - 20               | 10                                | 61.4                          | 0.163                         |
| 20 - 48               | $44.72/f^{0.5}$                   | $129.8/f^{0.25}$              | $0.3444/f^{0.25}$             |
| 48 - 100              | 6.455                             | 49.33                         | 0.1309                        |
| 100 - 6000            | $0.6455*f^{0.5}$                  | $15.60*f^{0.25}$              | $0.04138*f^{0.25}$            |
| 6000 - 150000         | 50                                | 137                           | 0.364                         |

**Table A.5 – Health Canada Safety Code 6 Worker/Occupational Limits**

| Frequency Range (MHz) | Power Density (W/m <sup>2</sup> ) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) |
|-----------------------|-----------------------------------|-------------------------------|-------------------------------|
| 10 - 20               | 2                                 | 27.46                         | 0.0728                        |
| 20 - 48               | $8.944/f^{0.5}$                   | $58.07/f^{0.25}$              | $0.1540/f^{0.25}$             |
| 48 - 300              | 1.291                             | 22.06                         | 0.05852                       |
| 300 - 6000            | $0.02619*f^{0.6834}$              | $3.142*f^{0.3417}$            | $0.008335*f^{0.3417}$         |
| 6000 - 15000          | 10                                | 61.4                          | 0.163                         |

**Table A.6 – Health Canada Safety Code 6 General Public Limits**

| Frequency Range (MHz) | Power Density (W/m <sup>2</sup> ) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) |
|-----------------------|-----------------------------------|-------------------------------|-------------------------------|
| 0.1 - 1               | -                                 | 614                           | $1.63/f$                      |
| 1 - 10                | $1000/f^2$                        | $614/f$                       | $1.63/f$                      |
| 10 - 400              | 10                                | 61.4                          | 0.163                         |
| 400 - 2000            | $f/40$                            | $3.07*f^{0.5}$                | $0.00814*f^{0.5}$             |
| 2000 - 300000         | 50                                | 137                           | 0.364                         |

**Table A.7 – ARPANSA Radiation Protection Series No.3 Worker/Occupational Limits**

| Frequency Range (MHz) | Power Density (W/m <sup>2</sup> ) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) |
|-----------------------|-----------------------------------|-------------------------------|-------------------------------|
| 0.1 - 0.15            | -                                 | 86.8                          | 4.86                          |
| 0.15 - 1              | -                                 | 86.8                          | $0.729/f$                     |
| 1 - 10                | -                                 | $86.8/f^{0.5}$                | $0.729/f$                     |
| 10 - 400              | 2                                 | 27.4                          | 0.0729                        |
| 400 - 2000            | $f/200$                           | $1.37*f^{0.5}$                | $0.00364*f^{0.5}$             |
| 2000 - 300000         | 10                                | 61.4                          | 0.163                         |

**Table A.8 – ARPANSA Radiation Protection Series No.3 General Public Limits**



| Frequency Range (MHz) | Power Density (W/m <sup>2</sup> ) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) |
|-----------------------|-----------------------------------|-------------------------------|-------------------------------|
| 0.1 - 1               | -                                 | 614                           | 1.63/f                        |
| 1 - 10                | 1000/f <sup>2</sup>               | 614/f                         | 1.63/f                        |
| 10 - 400              | 10                                | 61.4                          | 0.163                         |
| 400 - 2000            | f/40                              | 3.07*f <sup>0.5</sup>         | 0.00814*f <sup>0.5</sup>      |
| 2000 - 300000         | 50                                | 137                           | 0.364                         |

**Table A.9 – NZS 2772 Part 1:1999 Worker/Occupational Limits**

| Frequency Range (MHz) | Power Density (W/m <sup>2</sup> ) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) |
|-----------------------|-----------------------------------|-------------------------------|-------------------------------|
| 0.1 - 0.15            | -                                 | 86.8                          | 4.86                          |
| 0.15 - 1              | -                                 | 86.8                          | 0.729/f                       |
| 1 - 10                | -                                 | 86.8/f <sup>0.5</sup>         | 0.729/f                       |
| 10 - 400              | 2                                 | 27.4                          | 0.0729                        |
| 400 - 2000            | f/200                             | 1.37*f <sup>0.5</sup>         | 0.00364*f <sup>0.5</sup>      |
| 2000 - 300000         | 10                                | 61.4                          | 0.163                         |

**Table A.10 – NZS 2772 Part 1:1999 General Public Limits**