

Exposure Calculation Report

MiX Telematics International (Pty) Ltd
Telematics Unit, Model: MiX 4401 and MiX 4401-B

In accordance with FCC CFR 47 Part 2.1091,
Health Canada Safety Code 6, EU/UK EN 50665,
Australia ARPANSA RPS No. 3 and New Zealand
NZS 2772.1

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Ryan Henley	Sales Manager	Authorised Signatory	11 February 2022

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EXECUTIVE SUMMARY

The calculation of exposure for this product was found to be compliant at a minimum distance of 20 cm with FCC CFR 47 Part 2.1091, Health Canada Safety Code 6, EU/UK EN 50665, Australia ARPANSA RPS No. 3 and New Zealand NZS 2772.1 assuming continuous exposure of 6 minutes or more. If alternative antennas are used with greater gains, the distance must be recalculated.

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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	17 January 2022
2	Add Australian HW variation	11 February 2022

Table 1

1.2 Introduction

Applicant	MiX Telematics International (Pty) Ltd
Manufacturer	MiX Telematics International (Pty) Ltd
Model Number(s)	MiX 4401 and MiX 4401-B
Hardware Version(s)	2
Software Version(s)	4.10.x
Specification/Issue/Date	<ul style="list-style-type: none">• EN 50665:2017 Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)• FCC 47 CFR Part 2.1091: 2020 Radiofrequency radiation exposure evaluation: mobile devices• ISED Canada: Health Canada Safety Code 6:2015• Australia: ARPANSA Radiation Protection Series No.3:2002• NZS 2772.1:1999 Radiofrequency fields, Maximum exposure levels, 3 kHz to 300 GHz
Order Number	P0095650
Date	09 August 2021
Related Document(s)	<ul style="list-style-type: none">• EN 62311:2008 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)• Directive 2013/35/EU on minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents (electromagnetic fields).• 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.• FCC 47 CFR Part 1.1310: 2020 Radiofrequency radiation exposure limits• OET65:97 Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields



- 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
- 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.

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

1.3.1 Single transmitters

Regional Requirement	RAT	RF Exposure Level at minimum compliance boundary of 0.2 m							
		S Power Density (W/m ²)		E Field (V/m)		H Field (A/m)		B Field (µT)	
		Result	Limit	Result	Limit	Result	Limit	Result	Limit
EN	TX.01 BLE2400	0.01	N/A	1.94	140.00	0.0051	N/A	0.0065	0.4500
EN	TX.02 SRD434	0.00	N/A	0.87	62.52	0.0023	N/A	0.0029	0.2084
EN	TX.04 LTE BAND 1	0.79	N/A	17.28	131.45	0.0458	N/A	0.0576	0.4382
EN	TX.05 LTE BAND 3	0.79	N/A	17.28	124.06	0.0458	N/A	0.0576	0.4135
EN	TX.06 LTE BAND 8	0.63	N/A	15.40	88.99	0.0409	N/A	0.0513	0.2966
EN	TX.16 LTE BAND 20	0.63	N/A	15.40	86.53	0.0409	N/A	0.0513	0.2884
EN	TX.17 LTE BAND 28	0.63	N/A	15.40	79.54	0.0409	N/A	0.0513	0.2651
EN	TX.18 GSM900	1.98	N/A	27.32	89.00	0.0725	N/A	0.0911	0.2967
EN	TX.19 DCS1800	0.99	N/A	19.34	124.06	0.0513	N/A	0.0645	0.4135
FCC	TX.01 BLE2400	0.01	50.00	1.94	N/A	0.0051	N/A	0.0065	N/A
FCC	TX.03 SRD915	0.01	30.07	2.18	N/A	0.0058	N/A	0.0073	N/A
FCC	TX.04 LTE BAND 1	0.79	50.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	TX.05 LTE BAND 3	0.79	50.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	TX.06 LTE BAND 8	0.63	29.33	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	TX.07 LTE BAND 2	0.79	50.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	TX.08 LTE BAND 4	0.79	50.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	TX.09 LTE BAND 5	0.63	27.47	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	TX.10 LTE BAND 12	0.63	23.30	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	TX.11 LTE BAND 13	0.63	25.90	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	TX.12 LTE BAND 25	0.79	50.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	TX.13 LTE BAND 26	0.63	27.13	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	TX.14 GSM850	1.57	27.47	24.35	N/A	0.0646	N/A	0.0812	N/A
FCC	TX.15 PCS1900	0.99	50.00	19.34	N/A	0.0513	N/A	0.0645	N/A
CANADA	TX.01 BLE2400	0.01	31.64	1.94	109.21	0.0051	0.2897	0.0065	N/A
CANADA	TX.03 SRD915	0.01	19.39	2.18	85.49	0.0058	0.2268	0.0073	N/A
CANADA	TX.04 LTE BAND 1	0.79	28.28	17.28	103.26	0.0458	0.2739	0.0576	N/A
CANADA	TX.05 LTE BAND 3	0.79	26.69	17.28	100.32	0.0458	0.2661	0.0576	N/A
CANADA	TX.06 LTE BAND 8	0.63	19.15	15.40	84.97	0.0409	0.2254	0.0513	N/A



Regional Requirement	RAT	RF Exposure Level at minimum compliance boundary of 0.2 m							
		S Power Density (W/m ²)		E Field (V/m)		H Field (A/m)		B Field (μT)	
		Result	Limit	Result	Limit	Result	Limit	Result	Limit
CANADA	TX.07 LTE BAND 2	0.79	27.76	17.28	102.31	0.0458	0.2714	0.0576	N/A
CANADA	TX.08 LTE BAND 4	0.79	26.69	17.28	100.32	0.0458	0.2661	0.0576	N/A
CANADA	TX.09 LTE BAND 5	0.63	18.53	15.40	83.58	0.0409	0.2217	0.0513	N/A
CANADA	TX.10 LTE BAND 12	0.63	17.07	15.40	80.21	0.0409	0.2128	0.0513	N/A
CANADA	TX.11 LTE BAND 13	0.63	17.99	15.40	82.36	0.0409	0.2185	0.0513	N/A
CANADA	TX.12 LTE BAND 25	0.79	27.76	17.28	102.31	0.0458	0.2714	0.0576	N/A
CANADA	TX.13 LTE BAND 26	0.63	18.42	15.40	83.33	0.0409	0.2210	0.0513	N/A
CANADA	TX.14 GSM850	1.57	18.53	24.35	83.59	0.0646	0.2217	0.0812	N/A
CANADA	TX.15 PCS1900	0.99	27.77	19.34	102.31	0.0513	0.2714	0.0645	N/A
AUSTRALIA	TX.01 BLE2400	0.01	50.00	1.94	137.00	0.0051	0.3640	0.0065	N/A
AUSTRALIA	TX.02 SRD434	0.00	10.86	0.87	63.98	0.0023	0.1696	0.0029	N/A
AUSTRALIA	TX.04 LTE BAND 1	0.79	48.00	17.28	134.52	0.0458	0.3567	0.0576	N/A
AUSTRALIA	TX.05 LTE BAND 3	0.79	42.75	17.28	126.95	0.0458	0.3366	0.0576	N/A
AUSTRALIA	TX.06 LTE BAND 8	0.63	22.00	15.40	91.07	0.0409	0.2415	0.0513	N/A
AUSTRALIA	TX.09 LTE BAND 5	0.63	20.60	15.40	88.13	0.0409	0.2337	0.0513	N/A
AUSTRALIA	TX.14 GSM850	1.57	20.61	24.35	88.14	0.0646	0.2337	0.0812	N/A
AUSTRALIA	TX.16 LTE BAND 20	0.63	20.80	15.40	88.55	0.0409	0.2348	0.0513	N/A
AUSTRALIA	TX.17 LTE BAND 28	0.63	17.58	15.40	81.40	0.0409	0.2158	0.0513	N/A
AUSTRALIA	TX.18 GSM900	1.98	22.01	27.32	91.08	0.0725	0.2415	0.0911	N/A
AUSTRALIA	TX.19 DCS1800	0.99	42.76	19.34	126.96	0.0513	0.3366	0.0645	N/A
NEW ZEALAND	TX.01 BLE2400	0.01	50.00	1.94	137.00	0.0051	0.3600	0.0065	N/A
NEW ZEALAND	TX.02 SRD434	0.00	10.86	0.87	62.52	0.0023	0.1667	0.0029	N/A
NEW ZEALAND	TX.04 LTE BAND 1	0.79	48.00	17.28	131.45	0.0458	0.3505	0.0576	N/A
NEW ZEALAND	TX.05 LTE BAND 3	0.79	42.75	17.28	124.06	0.0458	0.3308	0.0576	N/A
NEW ZEALAND	TX.06 LTE BAND 8	0.63	22.00	15.40	88.99	0.0409	0.2373	0.0513	N/A
NEW ZEALAND	TX.09 LTE BAND 5	0.63	20.60	15.40	86.12	0.0409	0.2296	0.0513	N/A
NEW ZEALAND	TX.14 GSM850	1.57	20.61	24.35	86.13	0.0646	0.2297	0.0812	N/A
NEW ZEALAND	TX.16 LTE BAND 20	0.63	20.80	15.40	86.53	0.0409	0.2308	0.0513	N/A
NEW ZEALAND	TX.17 LTE BAND 28	0.63	17.58	15.40	79.54	0.0409	0.2121	0.0513	N/A
NEW ZEALAND	TX.18 GSM900	1.98	22.01	27.32	89.00	0.0725	0.2373	0.0911	N/A
NEW ZEALAND	TX.19 DCS1800	0.99	42.76	19.34	124.06	0.0513	0.3308	0.0645	N/A

Table 2 – Worker/Occupational Exposure Results

The calculations show that the EUT complies with the worker/occupational exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum of 0.2 m.



Regional Requirement	RAT	RF Exposure Level at minimum compliance boundary of 0.2 m							
		S Power Density (W/m ²)		E Field (V/m)		H Field (A/m)		B Field (µT)	
		Result	Limit	Result	Limit	Result	Limit	Result	Limit
EN	TX.01 BLE2400	0.01	10.00	1.94	61.00	0.0051	0.1600	0.0065	0.2000
EN	TX.02 SRD434	0.00	2.17	0.87	28.65	0.0023	0.0771	0.0029	0.0959
EN	TX.04 LTE BAND 1	0.79	9.60	17.28	60.25	0.0458	0.1621	0.0576	0.2016
EN	TX.05 LTE BAND 3	0.79	8.55	17.28	56.86	0.0458	0.1530	0.0576	0.1902
EN	TX.06 LTE BAND 8	0.63	4.40	15.40	40.79	0.0409	0.1098	0.0513	0.1365
EN	TX.16 LTE BAND 20	0.63	4.16	15.40	39.66	0.0409	0.1067	0.0513	0.1327
EN	TX.17 LTE BAND 28	0.63	3.52	15.40	36.46	0.0409	0.0981	0.0513	0.1220
EN	TX.18 GSM900	1.98	4.40	27.32	40.79	0.0725	0.1098	0.0911	0.1365
EN	TX.19 DCS1800	0.99	8.55	19.34	56.86	0.0513	0.1530	0.0645	0.1902
FCC	TX.01 BLE2400	0.01	10.00	1.94	N/A	0.0051	N/A	0.0065	N/A
FCC	TX.03 SRD915	0.01	6.01	2.18	N/A	0.0058	N/A	0.0073	N/A
FCC	TX.04 LTE BAND 1	0.79	10.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	TX.05 LTE BAND 3	0.79	10.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	TX.06 LTE BAND 8	0.63	5.87	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	TX.07 LTE BAND 2	0.79	10.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	TX.08 LTE BAND 4	0.79	10.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	TX.09 LTE BAND 5	0.63	5.49	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	TX.10 LTE BAND 12	0.63	4.66	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	TX.11 LTE BAND 13	0.63	5.18	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	TX.12 LTE BAND 25	0.79	10.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	TX.13 LTE BAND 26	0.63	5.43	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	TX.14 GSM850	1.57	5.49	24.35	N/A	0.0646	N/A	0.0812	N/A
FCC	TX.15 PCS1900	0.99	10.00	19.34	N/A	0.0513	N/A	0.0645	N/A
CANADA	TX.01 BLE2400	0.01	5.35	1.94	44.91	0.0051	0.1191	0.0065	N/A
CANADA	TX.03 SRD915	0.01	2.74	2.18	32.14	0.0058	0.0853	0.0073	N/A
CANADA	TX.04 LTE BAND 1	0.79	4.59	17.28	41.60	0.0458	0.1104	0.0576	N/A
CANADA	TX.05 LTE BAND 3	0.79	4.24	17.28	39.99	0.0458	0.1061	0.0576	N/A
CANADA	TX.06 LTE BAND 8	0.63	2.69	15.40	31.87	0.0409	0.0845	0.0513	N/A
CANADA	TX.07 LTE BAND 2	0.79	4.48	17.28	41.08	0.0458	0.1090	0.0576	N/A
CANADA	TX.08 LTE BAND 4	0.79	4.24	17.28	39.99	0.0458	0.1061	0.0576	N/A
CANADA	TX.09 LTE BAND 5	0.63	2.58	15.40	31.16	0.0409	0.0827	0.0513	N/A
CANADA	TX.10 LTE BAND 12	0.63	2.30	15.40	29.46	0.0409	0.0781	0.0513	N/A
CANADA	TX.11 LTE BAND 13	0.63	2.47	15.40	30.54	0.0409	0.0810	0.0513	N/A
CANADA	TX.12 LTE BAND 25	0.79	4.48	17.28	41.08	0.0458	0.1090	0.0576	N/A
CANADA	TX.13 LTE BAND 26	0.63	2.55	15.40	31.03	0.0409	0.0823	0.0513	N/A



Regional Requirement	RAT	RF Exposure Level at minimum compliance boundary of 0.2 m							
		S Power Density (W/m ²)		E Field (V/m)		H Field (A/m)		B Field (μT)	
		Result	Limit	Result	Limit	Result	Limit	Result	Limit
CANADA	TX.14 GSM850	1.57	2.58	24.35	31.16	0.0646	0.0827	0.0812	N/A
CANADA	TX.15 PCS1900	0.99	4.48	19.34	41.08	0.0513	0.1090	0.0645	N/A
AUSTRALIA	TX.01 BLE2400	0.01	10.00	1.94	61.40	0.0051	0.1630	0.0065	N/A
AUSTRALIA	TX.02 SRD434	0.00	2.17	0.87	28.55	0.0023	0.0759	0.0029	N/A
AUSTRALIA	TX.04 LTE BAND 1	0.79	9.60	17.28	60.03	0.0458	0.1595	0.0576	N/A
AUSTRALIA	TX.05 LTE BAND 3	0.79	8.55	17.28	56.65	0.0458	0.1505	0.0576	N/A
AUSTRALIA	TX.06 LTE BAND 8	0.63	4.40	15.40	40.64	0.0409	0.1080	0.0513	N/A
AUSTRALIA	TX.09 LTE BAND 5	0.63	4.12	15.40	39.33	0.0409	0.1045	0.0513	N/A
AUSTRALIA	TX.14 GSM850	1.57	4.12	24.35	39.33	0.0646	0.1045	0.0812	N/A
AUSTRALIA	TX.16 LTE BAND 20	0.63	4.16	15.40	39.52	0.0409	0.1050	0.0513	N/A
AUSTRALIA	TX.17 LTE BAND 28	0.63	3.52	15.40	36.32	0.0409	0.0965	0.0513	N/A
AUSTRALIA	TX.18 GSM900	1.98	4.40	27.32	40.65	0.0725	0.1080	0.0911	N/A
AUSTRALIA	TX.19 DCS1800	0.99	8.55	19.34	56.66	0.0513	0.1505	0.0645	N/A
NEW ZEALAND	TX.01 BLE2400	0.01	10.00	1.94	61.00	0.0051	0.1600	0.0065	N/A
NEW ZEALAND	TX.02 SRD434	0.00	2.17	0.87	28.65	0.0023	0.0771	0.0029	N/A
NEW ZEALAND	TX.04 LTE BAND 1	0.79	9.60	17.28	60.25	0.0458	0.1621	0.0576	N/A
NEW ZEALAND	TX.05 LTE BAND 3	0.79	8.55	17.28	56.86	0.0458	0.1530	0.0576	N/A
NEW ZEALAND	TX.06 LTE BAND 8	0.63	4.40	15.40	40.79	0.0409	0.1098	0.0513	N/A
NEW ZEALAND	TX.09 LTE BAND 5	0.63	4.12	15.40	39.47	0.0409	0.1062	0.0513	N/A
NEW ZEALAND	TX.14 GSM850	1.57	4.12	24.35	39.47	0.0646	0.1062	0.0812	N/A
NEW ZEALAND	TX.16 LTE BAND 20	0.63	4.16	15.40	39.66	0.0409	0.1067	0.0513	N/A
NEW ZEALAND	TX.17 LTE BAND 28	0.63	3.52	15.40	36.46	0.0409	0.0981	0.0513	N/A
NEW ZEALAND	TX.18 GSM900	1.98	4.40	27.32	40.79	0.0725	0.1098	0.0911	N/A
NEW ZEALAND	TX.19 DCS1800	0.99	8.55	19.34	56.86	0.0513	0.1530	0.0645	N/A

Table 3 – General Public Exposure Results

The calculations show that the EUT complies with the general public exposure levels described in the listed specifications in Annex A at the point of investigation, a minimum of 0.2 m.



1.3.1 Multiple transmitters

Regional Requirement	Configuration	Bands	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
EN	13	TX.01 + TX.02 + TX.04	N/A	0.0177	N/A	0.0177
EN	14	TX.01 + TX.02 + TX.05	N/A	0.0198	N/A	0.0198
EN	15	TX.01 + TX.02 + TX.06	N/A	0.0303	N/A	0.0303
EN	16	TX.01 + TX.02 + TX.16	N/A	0.0321	N/A	0.0321
EN	17	TX.01 + TX.02 + TX.17	N/A	0.0379	N/A	0.0379
EN	18	TX.01 + TX.02 + TX.18	N/A	0.0946	N/A	0.0946
EN	19	TX.01 + TX.02 + TX.19	N/A	0.0247	N/A	0.0247
FCC	1	TX.01 + TX.03 + TX.04	0.0165	N/A	N/A	N/A
FCC	2	TX.01 + TX.03 + TX.05	0.0165	N/A	N/A	N/A
FCC	3	TX.01 + TX.03 + TX.06	0.0221	N/A	N/A	N/A
FCC	4	TX.01 + TX.03 + TX.07	0.0165	N/A	N/A	N/A
FCC	5	TX.01 + TX.03 + TX.08	0.0165	N/A	N/A	N/A
FCC	6	TX.01 + TX.03 + TX.09	0.0235	N/A	N/A	N/A
FCC	7	TX.01 + TX.03 + TX.10	0.0276	N/A	N/A	N/A
FCC	8	TX.01 + TX.03 + TX.11	0.0249	N/A	N/A	N/A
FCC	9	TX.01 + TX.03 + TX.12	0.0165	N/A	N/A	N/A
FCC	10	TX.01 + TX.03 + TX.13	0.0238	N/A	N/A	N/A
FCC	11	TX.01 + TX.03 + TX.14	0.0579	N/A	N/A	N/A
FCC	12	TX.01 + TX.03 + TX.15	0.0205	N/A	N/A	N/A
CANADA	1	TX.01 + TX.03 + TX.04	0.0290	0.0290	0.0290	N/A
CANADA	2	TX.01 + TX.03 + TX.05	0.0306	0.0306	0.0306	N/A
CANADA	3	TX.01 + TX.03 + TX.06	0.0338	0.0338	0.0338	N/A
CANADA	4	TX.01 + TX.03 + TX.07	0.0295	0.0295	0.0295	N/A
CANADA	5	TX.01 + TX.03 + TX.08	0.0306	0.0306	0.0306	N/A
CANADA	6	TX.01 + TX.03 + TX.09	0.0349	0.0349	0.0349	N/A
CANADA	7	TX.01 + TX.03 + TX.10	0.0378	0.0378	0.0378	N/A
CANADA	8	TX.01 + TX.03 + TX.11	0.0359	0.0359	0.0359	N/A
CANADA	9	TX.01 + TX.03 + TX.12	0.0295	0.0295	0.0295	N/A
CANADA	10	TX.01 + TX.03 + TX.13	0.0351	0.0351	0.0351	N/A
CANADA	11	TX.01 + TX.03 + TX.14	0.0858	0.0858	0.0858	N/A
CANADA	12	TX.01 + TX.03 + TX.15	0.0367	0.0367	0.0367	N/A
AUSTRALIA	13	TX.01 + TX.02 + TX.04	0.0169	0.0169	0.0169	N/A
AUSTRALIA	14	TX.01 + TX.02 + TX.05	0.0189	0.0189	0.0189	N/A
AUSTRALIA	15	TX.01 + TX.02 + TX.06	0.0290	0.0290	0.0290	N/A



Regional Requirement	Configuration	Bands	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
AUSTRALIA	16	TX.01 + TX.02 + TX.16	0.0306	0.0306	0.0307	N/A
AUSTRALIA	17	TX.01 + TX.02 + TX.17	0.0362	0.0362	0.0362	N/A
AUSTRALIA	18	TX.01 + TX.02 + TX.18	0.0904	0.0904	0.0904	N/A
AUSTRALIA	19	TX.01 + TX.02 + TX.19	0.0236	0.0236	0.0236	N/A
AUSTRALIA	20	TX.01 + TX.02 + TX.09	0.0309	0.0309	0.0309	N/A
AUSTRALIA	21	TX.01 + TX.02 + TX.14	0.0767	0.0767	0.0768	N/A
NEW ZEALAND	13	TX.01 + TX.02 + TX.04	0.0169	0.0177	0.0175	N/A
NEW ZEALAND	14	TX.01 + TX.02 + TX.05	0.0189	0.0198	0.0196	N/A
NEW ZEALAND	15	TX.01 + TX.02 + TX.06	0.0290	0.0303	0.0300	N/A
NEW ZEALAND	16	TX.01 + TX.02 + TX.16	0.0306	0.0321	0.0317	N/A
NEW ZEALAND	17	TX.01 + TX.02 + TX.17	0.0362	0.0379	0.0375	N/A
NEW ZEALAND	18	TX.01 + TX.02 + TX.18	0.0904	0.0946	0.0936	N/A
NEW ZEALAND	19	TX.01 + TX.02 + TX.19	0.0236	0.0247	0.0244	N/A
NEW ZEALAND	20	TX.01 + TX.02 + TX.09	0.0309	0.0324	0.0320	N/A
NEW ZEALAND	21	TX.01 + TX.02 + TX.14	0.0767	0.0803	0.0795	N/A

Table 4 – Worker/Occupational Exposure Results

The calculations show that the EUT complies with the worker/occupational exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum of 0.2 m.



Regional Requirement	Configuration	Bands	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
EN	13	TX.01 + TX.02 + TX.04	0.0844	0.0842	0.0818	0.0836
EN	14	TX.01 + TX.02 + TX.05	0.0945	0.0943	0.0917	0.0936
EN	15	TX.01 + TX.02 + TX.06	0.1449	0.1445	0.1404	0.1435
EN	16	TX.01 + TX.02 + TX.16	0.1531	0.1527	0.1484	0.1516
EN	17	TX.01 + TX.02 + TX.17	0.1809	0.1804	0.1753	0.1791
EN	18	TX.01 + TX.02 + TX.18	0.4518	0.4505	0.4378	0.4472
EN	19	TX.01 + TX.02 + TX.19	0.1180	0.1176	0.1143	0.1168
FCC	1	TX.01 + TX.03 + TX.04	0.0823	N/A	N/A	N/A
FCC	2	TX.01 + TX.03 + TX.05	0.0823	N/A	N/A	N/A
FCC	3	TX.01 + TX.03 + TX.06	0.1103	N/A	N/A	N/A
FCC	4	TX.01 + TX.03 + TX.07	0.0823	N/A	N/A	N/A
FCC	5	TX.01 + TX.03 + TX.08	0.0823	N/A	N/A	N/A
FCC	6	TX.01 + TX.03 + TX.09	0.1176	N/A	N/A	N/A
FCC	7	TX.01 + TX.03 + TX.10	0.1381	N/A	N/A	N/A
FCC	8	TX.01 + TX.03 + TX.11	0.1245	N/A	N/A	N/A
FCC	9	TX.01 + TX.03 + TX.12	0.0823	N/A	N/A	N/A
FCC	10	TX.01 + TX.03 + TX.13	0.1190	N/A	N/A	N/A
FCC	11	TX.01 + TX.03 + TX.14	0.2893	N/A	N/A	N/A
FCC	12	TX.01 + TX.03 + TX.15	0.1023	N/A	N/A	N/A
CANADA	1	TX.01 + TX.03 + TX.04	0.1789	0.1790	0.1789	N/A
CANADA	2	TX.01 + TX.03 + TX.05	0.1931	0.1932	0.1931	N/A
CANADA	3	TX.01 + TX.03 + TX.06	0.2400	0.2400	0.2400	N/A
CANADA	4	TX.01 + TX.03 + TX.07	0.1834	0.1834	0.1834	N/A
CANADA	5	TX.01 + TX.03 + TX.08	0.1931	0.1932	0.1931	N/A
CANADA	6	TX.01 + TX.03 + TX.09	0.2507	0.2507	0.2507	N/A
CANADA	7	TX.01 + TX.03 + TX.10	0.2798	0.2798	0.2798	N/A
CANADA	8	TX.01 + TX.03 + TX.11	0.2607	0.2607	0.2607	N/A
CANADA	9	TX.01 + TX.03 + TX.12	0.1834	0.1834	0.1834	N/A
CANADA	10	TX.01 + TX.03 + TX.13	0.2527	0.2528	0.2527	N/A
CANADA	11	TX.01 + TX.03 + TX.14	0.6170	0.6171	0.6170	N/A
CANADA	12	TX.01 + TX.03 + TX.15	0.2281	0.2281	0.2281	N/A
AUSTRALIA	13	TX.01 + TX.02 + TX.04	0.0844	0.0848	0.0845	N/A
AUSTRALIA	14	TX.01 + TX.02 + TX.05	0.0945	0.0949	0.0946	N/A
AUSTRALIA	15	TX.01 + TX.02 + TX.06	0.1449	0.1455	0.1450	N/A
AUSTRALIA	16	TX.01 + TX.02 + TX.16	0.1531	0.1538	0.1533	N/A



Regional Requirement	Configuration	Bands	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
AUSTRALIA	17	TX.01 + TX.02 + TX.17	0.1809	0.1817	0.1811	N/A
AUSTRALIA	18	TX.01 + TX.02 + TX.18	0.4518	0.4537	0.4523	N/A
AUSTRALIA	19	TX.01 + TX.02 + TX.19	0.1180	0.1185	0.1181	N/A
AUSTRALIA	20	TX.01 + TX.02 + TX.09	0.1546	0.1553	0.1548	N/A
AUSTRALIA	21	TX.01 + TX.02 + TX.14	0.3836	0.3852	0.3839	N/A
NEW ZEALAND	13	TX.01 + TX.02 + TX.04	0.0844	0.0842	0.0818	N/A
NEW ZEALAND	14	TX.01 + TX.02 + TX.05	0.0945	0.0943	0.0917	N/A
NEW ZEALAND	15	TX.01 + TX.02 + TX.06	0.1449	0.1445	0.1404	N/A
NEW ZEALAND	16	TX.01 + TX.02 + TX.16	0.1531	0.1527	0.1484	N/A
NEW ZEALAND	17	TX.01 + TX.02 + TX.17	0.1809	0.1804	0.1753	N/A
NEW ZEALAND	18	TX.01 + TX.02 + TX.18	0.4518	0.4505	0.4378	N/A
NEW ZEALAND	19	TX.01 + TX.02 + TX.19	0.1180	0.1176	0.1143	N/A
NEW ZEALAND	20	TX.01 + TX.02 + TX.09	0.1546	0.1542	0.1499	N/A
NEW ZEALAND	21	TX.01 + TX.02 + TX.14	0.3836	0.3824	0.3717	N/A

Table 5 – General Public Exposure Results

The calculations show that the EUT complies with the general public exposure levels described in the listed specifications in Annex A at the point of investigation, a minimum of 0.2 m.



1.4 Product Information

1.4.1 Technical Description

The MiX 4000 series is a range of fleet products that incorporates the latest market trends. It consists mainly of an on-board computer, a modem, a GNSS, an accelerometer, Low Energy Bluetooth, I/O, 2 x CAN, 2 x RS232, 4 x positive drives, and a 434 MHz /915MHz short range transceiver.

The range consists of variants with LTE CAT M1/EDGE cellular module Quectel BG96. The MiX 4401-B and MiX 4401, present the same electrical, physical and electro mechanics characteristics, the same PCB, layout and components. The only difference between them is that the “-B” variant has an internal backup battery plugged in, allowing the device to work after the disconnection of the vehicle’s battery. The functionality and purposes of the products are the same.

1.4.2 Transmitter Description

The following radio access technologies and frequency bands are supported by the equipment under test.

Radio Access Technology	Antenna Port	Frequency Band (MHz)	Minimum Frequency (MHz)	Output Power (dBm)	Duty Cycle (%)
TX.01 BLE2400	1	2402-2480	2402.0	10.0	50.0
TX.02 SRD434	2	434.3	434.3	10.0	10.0
TX.03 SRD915	3	902-928	902.0	18.0	10.0
TX.04 LTE BAND 1	4	1920-1980	1920.0	23.0	100.0
TX.05 LTE BAND 3	4	1710-1785	1710.0	23.0	100.0
TX.06 LTE BAND 8	4	880-915	880.0	23.0	100.0
TX.07 LTE BAND 2	4	1850-1910	1850.0	23.0	100.0
TX.08 LTE BAND 4	4	1710-1755	1710.0	23.0	100.0
TX.09 LTE BAND 5	4	824-849	824.0	23.0	100.0
TX.10 LTE BAND 12	4	699-716	699.0	23.0	100.0
TX.11 LTE BAND 13	4	777-787	777.0	23.0	100.0
TX.12 LTE BAND 25	4	1850-1915	1850.0	23.0	100.0
TX.13 LTE BAND 26	4	814-849	814.0	23.0	100.0
TX.14 GSM850	4	824.2-848.8	824.2	33	25
TX.15 PCS1900	4	1850.2-1909.8	1850.2	30	25
TX.16 LTE BAND 20	4	832-862	832.0	23.0	100.0
TX.17 LTE BAND 28	4	703-748	703.0	23.0	100.0
TX.18 GSM900	4	880.2-914.8	880.2	33	25
TX.19 DCS1800	4	1710.2-1784.8	1710.2	30	25

Table 6 – Transmitter Description

Note: Transmitter power includes upper bounds of uncertainty therefore maximum values are used in accordance with Section 2.5.



1.4.3 Antenna Description

The following antennas are supported by the equipment under test.

Antenna No	Radio Access Technology	Antenna Model	Gain (dBi)	Antenna length (cm)	Minimum Separation Distance (cm)
1	TX.01 BLE2400	1.0 x 1.1 x 0.15 cm	0	1.1	20
2	TX.02 SRD434	5 x 1.5 x 0.1	0	5	20
3	TX.03 SRD915	2.5 x 1.5 x 0.1	0	2.5	20
4	TX.04 LTE BAND 1	6.5 x 2.5 x 1.4 cm	3	6.5	20
4	TX.05 LTE BAND 3	6.5 x 2.5 x 1.4 cm	3	6.5	20
4	TX.06 LTE BAND 8	6.5 x 2.5 x 1.4 cm	2	6.5	20
4	TX.07 LTE BAND 2	6.5 x 2.5 x 1.4 cm	3	6.5	20
4	TX.08 LTE BAND 4	6.5 x 2.5 x 1.4 cm	3	6.5	20
4	TX.09 LTE BAND 5	6.5 x 2.5 x 1.4 cm	2	6.5	20
4	TX.10 LTE BAND 12	6.5 x 2.5 x 1.4 cm	2	6.5	20
4	TX.11 LTE BAND 13	6.5 x 2.5 x 1.4 cm	2	6.5	20
4	TX.12 LTE BAND 25	6.5 x 2.5 x 1.4 cm	3	6.5	20
4	TX.13 LTE BAND 26	6.5 x 2.5 x 1.4 cm	2	6.5	20
4	TX.14 GSM850	6.5 x 2.5 x 1.4 cm	2	6.5	20
4	TX.15 PCS1900	6.5 x 2.5 x 1.4 cm	3	6.5	20
4	TX.16 LTE BAND 20	6.5 x 2.5 x 1.4 cm	2	6.5	20
4	TX.17 LTE BAND 28	6.5 x 2.5 x 1.4 cm	2	6.5	20
4	TX.18 GSM900	6.5 x 2.5 x 1.4 cm	3	6.5	20
4	TX.19 DCS1800	6.5 x 2.5 x 1.4 cm	3	6.5	20

Table 7 – Antenna description

In the case of more than one type of antenna being supported by the equipment, the calculation is based on the maximum of the antenna gains. If other antennas can be used that have greater gains, the minimum separation distances will need to be recalculated.

Note: Antenna gain includes upper bounds of uncertainty therefore maximum values are used in accordance with Section 2.5.



1.4.4 Equipment Configuration

Configuration	Band	Applicability: FCC/IC	Applicability: EN/AUS/NZ
Configuration 1	TX.01 + TX.03 + TX.04	Yes	No
Configuration 2	TX.01 + TX.03 + TX.05	Yes	No
Configuration 3	TX.01 + TX.03 + TX.06	Yes	No
Configuration 4	TX.01 + TX.03 + TX.07	Yes	No
Configuration 5	TX.01 + TX.03 + TX.08	Yes	No
Configuration 6	TX.01 + TX.03 + TX.09	Yes	No
Configuration 7	TX.01 + TX.03 + TX.10	Yes	No
Configuration 8	TX.01 + TX.03 + TX.11	Yes	No
Configuration 9	TX.01 + TX.03 + TX.12	Yes	No
Configuration 10	TX.01 + TX.03 + TX.13	Yes	No
Configuration 11	TX.01 + TX.03 + TX.14	Yes	No
Configuration 12	TX.01 + TX.03 + TX.15	Yes	No
Configuration 13	TX.01 + TX.02 + TX.04	No	Yes
Configuration 14	TX.01 + TX.02 + TX.05	No	Yes
Configuration 15	TX.01 + TX.02 + TX.06	No	Yes
Configuration 16	TX.01 + TX.02 + TX.16	No	Yes
Configuration 17	TX.01 + TX.02 + TX.17	No	Yes
Configuration 18	TX.01 + TX.02 + TX.18	No	Yes
Configuration 19	TX.01 + TX.02 + TX.19	No	Yes
Configuration 20	TX.01 + TX.02 + TX.09	No	Yes (AUS/NZ only, Note 2)
Configuration 21	TX.01 + TX.02 + TX.14	No	Yes (AUS/NZ only, Note 2)

Note 1: This report has calculated the RF exposure for those bands shown as “Yes” against the applicable regions.

Note 2: GSM850 / LTE BAND 5 is by exception allocated to countries South Africa, Israel, Thailand, Australia and New Zealand; service provider dependant. Default ITU Region2 allocated.



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:

η - Impedance of free space (377 ohm in far field)

P – Average transmitter power W ($P_{av} = P_{max} \times \text{Duty Cycle}$)

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:

μ_o – Permeability of free space $4 \times \pi \text{ E-7 H/m}$

This assessment assumes that exposure is continuous for 6 minutes or more in accordance with the averaging time required by the exposure standards at the stated minimum compliance boundary separation distance. Exposures of less than 6 minutes at other separation distances are not addressed by this report.

This assessment method of RF exposure is applicable to separation distances of 20 cm or more. Separation distances of less than 20 cm require a Specific Absorption Rate (SAR) assessment.

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.

The result is compared to the limits in Annex A to determine compliance or to calculate the required compliance distance. The calculation is based on the lowest frequency in each band as the most onerous requirement as the limits increase with frequency for frequencies above 10-50 MHz (dependent on region).



2.2 Individual Antenna Port Exposure Results

2.2.1 Calculation of Exposure at Specified Separation Distance

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 regional requirements is shown in Annex A.

Regional Requirement	Antenna Port	RAT	Frequency (MHz)	RF Exposure Level at minimum compliance boundary of 0.2 m							
				S Power Density (W/m ²)		E Field (V/m)		H Field (A/m)		B Field (μT)	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit
EN	1	TX.01 BLE2400	2402.0	0.01	N/A	1.94	140.00	0.0051	N/A	0.0065	0.4500
EN	2	TX.02 SRD434	434.3	0.00	N/A	0.87	62.52	0.0023	N/A	0.0029	0.2084
EN	4	TX.04 LTE BAND 1	1920.0	0.79	N/A	17.28	131.45	0.0458	N/A	0.0576	0.4382
EN	4	TX.05 LTE BAND 3	1710.0	0.79	N/A	17.28	124.06	0.0458	N/A	0.0576	0.4135
EN	4	TX.06 LTE BAND 8	880.0	0.63	N/A	15.40	88.99	0.0409	N/A	0.0513	0.2966
EN	4	TX.16 LTE BAND 20	832.0	0.63	N/A	15.40	86.53	0.0409	N/A	0.0513	0.2884
EN	4	TX.17 LTE BAND 28	703.0	0.63	N/A	15.40	79.54	0.0409	N/A	0.0513	0.2651
EN	4	TX.18 GSM900	880.2	1.98	N/A	27.32	89.00	0.0725	N/A	0.0911	0.2967
EN	4	TX.19 DCS1800	1710.2	0.99	N/A	19.34	124.06	0.0513	N/A	0.0645	0.4135
FCC	1	TX.01 BLE2400	2402.0	0.01	50.00	1.94	N/A	0.0051	N/A	0.0065	N/A
FCC	3	TX.03 SRD915	902.0	0.01	30.07	2.18	N/A	0.0058	N/A	0.0073	N/A
FCC	4	TX.04 LTE BAND 1	1920.0	0.79	50.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	4	TX.05 LTE BAND 3	1710.0	0.79	50.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	4	TX.06 LTE BAND 8	880.0	0.63	29.33	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	4	TX.07 LTE BAND 2	1850.0	0.79	50.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	4	TX.08 LTE BAND 4	1710.0	0.79	50.00	17.28	N/A	0.0458	N/A	0.0576	N/A



Regional Requirement	Antenna Port	RAT	Frequency (MHz)	RF Exposure Level at minimum compliance boundary of 0.2 m							
				S Power Density (W/m ²)		E Field (V/m)		H Field (A/m)		B Field (μT)	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit
FCC	4	TX.09 LTE BAND 5	824.0	0.63	27.47	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	4	TX.10 LTE BAND 12	699.0	0.63	23.30	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	4	TX.11 LTE BAND 13	777.0	0.63	25.90	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	4	TX.12 LTE BAND 25	1850.0	0.79	50.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	4	TX.13 LTE BAND 26	814.0	0.63	27.13	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	4	TX.14 GSM850	824.2	1.57	27.47	24.35	N/A	0.0646	N/A	0.0812	N/A
FCC	4	TX.15 PCS1900	1850.2	0.99	50.00	19.34	N/A	0.0513	N/A	0.0645	N/A
CANADA	1	TX.01 BLE2400	2402.0	0.01	31.64	1.94	109.21	0.0051	0.2897	0.0065	N/A
CANADA	3	TX.03 SRD915	902.0	0.01	19.39	2.18	85.49	0.0058	0.2268	0.0073	N/A
CANADA	4	TX.04 LTE BAND 1	1920.0	0.79	28.28	17.28	103.26	0.0458	0.2739	0.0576	N/A
CANADA	4	TX.05 LTE BAND 3	1710.0	0.79	26.69	17.28	100.32	0.0458	0.2661	0.0576	N/A
CANADA	4	TX.06 LTE BAND 8	880.0	0.63	19.15	15.40	84.97	0.0409	0.2254	0.0513	N/A
CANADA	4	TX.07 LTE BAND 2	1850.0	0.79	27.76	17.28	102.31	0.0458	0.2714	0.0576	N/A
CANADA	4	TX.08 LTE BAND 4	1710.0	0.79	26.69	17.28	100.32	0.0458	0.2661	0.0576	N/A
CANADA	4	TX.09 LTE BAND 5	824.0	0.63	18.53	15.40	83.58	0.0409	0.2217	0.0513	N/A
CANADA	4	TX.10 LTE BAND 12	699.0	0.63	17.07	15.40	80.21	0.0409	0.2128	0.0513	N/A
CANADA	4	TX.11 LTE BAND 13	777.0	0.63	17.99	15.40	82.36	0.0409	0.2185	0.0513	N/A
CANADA	4	TX.12 LTE BAND 25	1850.0	0.79	27.76	17.28	102.31	0.0458	0.2714	0.0576	N/A



Regional Requirement	Antenna Port	RAT	Frequency (MHz)	RF Exposure Level at minimum compliance boundary of 0.2 m							
				S Power Density (W/m ²)		E Field (V/m)		H Field (A/m)		B Field (μT)	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit
CANADA	4	TX.13 LTE BAND 26	814.0	0.63	18.42	15.40	83.33	0.0409	0.2210	0.0513	N/A
CANADA	4	TX.14 GSM850	824.2	1.57	18.53	24.35	83.59	0.0646	0.2217	0.0812	N/A
CANADA	4	TX.15 PCS1900	1850.2	0.99	27.77	19.34	102.31	0.0513	0.2714	0.0645	N/A
AUSTRALIA	1	TX.01 BLE2400	2402.0	0.01	50.00	1.94	137.00	0.0051	0.3640	0.0065	N/A
AUSTRALIA	2	TX.02 SRD434	434.3	0.00	10.86	0.87	63.98	0.0023	0.1696	0.0029	N/A
AUSTRALIA	4	TX.04 LTE BAND 1	1920.0	0.79	48.00	17.28	134.52	0.0458	0.3567	0.0576	N/A
AUSTRALIA	4	TX.05 LTE BAND 3	1710.0	0.79	42.75	17.28	126.95	0.0458	0.3366	0.0576	N/A
AUSTRALIA	4	TX.06 LTE BAND 8	880.0	0.63	22.00	15.40	91.07	0.0409	0.2415	0.0513	N/A
AUSTRALIA	4	TX.09 LTE BAND 5	824.0	0.63	20.60	15.40	88.13	0.0409	0.2337	0.0513	N/A
AUSTRALIA	4	TX.14 GSM850	824.2	1.57	20.61	24.35	88.14	0.0646	0.2337	0.0812	N/A
AUSTRALIA	4	TX.16 LTE BAND 20	832.0	0.63	20.80	15.40	88.55	0.0409	0.2348	0.0513	N/A
AUSTRALIA	4	TX.17 LTE BAND 28	703.0	0.63	17.58	15.40	81.40	0.0409	0.2158	0.0513	N/A
AUSTRALIA	4	TX.18 GSM900	880.2	1.98	22.01	27.32	91.08	0.0725	0.2415	0.0911	N/A
AUSTRALIA	4	TX.19 DCS1800	1710.2	0.99	42.76	19.34	126.96	0.0513	0.3366	0.0645	N/A
NEW ZEALAND	1	TX.01 BLE2400	2402.0	0.01	50.00	1.94	137.00	0.0051	0.3600	0.0065	N/A
NEW ZEALAND	2	TX.02 SRD434	434.3	0.00	10.86	0.87	62.52	0.0023	0.1667	0.0029	N/A
NEW ZEALAND	4	TX.04 LTE BAND 1	1920.0	0.79	48.00	17.28	131.45	0.0458	0.3505	0.0576	N/A
NEW ZEALAND	4	TX.05 LTE BAND 3	1710.0	0.79	42.75	17.28	124.06	0.0458	0.3308	0.0576	N/A
NEW ZEALAND	4	TX.06 LTE BAND 8	880.0	0.63	22.00	15.40	88.99	0.0409	0.2373	0.0513	N/A



Regional Requirement	Antenna Port	RAT	Frequency (MHz)	RF Exposure Level at minimum compliance boundary of 0.2 m							
				S Power Density (W/m ²)		E Field (V/m)		H Field (A/m)		B Field (μT)	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit
NEW ZEALAND	4	TX.09 LTE BAND 5	824.0	0.63	20.60	15.40	86.12	0.0409	0.2296	0.0513	N/A
NEW ZEALAND	4	TX.14 GSM850	824.2	1.57	20.61	24.35	86.13	0.0646	0.2297	0.0812	N/A
NEW ZEALAND	4	TX.16 LTE BAND 20	832.0	0.63	20.80	15.40	86.53	0.0409	0.2308	0.0513	N/A
NEW ZEALAND	4	TX.17 LTE BAND 28	703.0	0.63	17.58	15.40	79.54	0.0409	0.2121	0.0513	N/A
NEW ZEALAND	4	TX.18 GSM900	880.2	1.98	22.01	27.32	89.00	0.0725	0.2373	0.0911	N/A
NEW ZEALAND	4	TX.19 DCS1800	1710.2	0.99	42.76	19.34	124.06	0.0513	0.3308	0.0645	N/A

Table 8 – Worker/Occupational Individual Transmitter Result

The calculations show that the EUT complies with the worker/occupational exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.

Regional Requirement	Antenna Port	RAT	Frequency (MHz)	RF Exposure Level at minimum compliance boundary of 0.2 m							
				S Power Density (W/m ²)		E Field (V/m)		H Field (A/m)		B Field (μT)	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit
EN	1	TX.01 BLE2400	2402.0	0.01	10.00	1.94	61.00	0.0051	0.1600	0.0065	0.2000
EN	2	TX.02 SRD434	434.3	0.00	2.17	0.87	28.65	0.0023	0.0771	0.0029	0.0959
EN	4	TX.04 LTE BAND 1	1920.0	0.79	9.60	17.28	60.25	0.0458	0.1621	0.0576	0.2016
EN	4	TX.05 LTE BAND 3	1710.0	0.79	8.55	17.28	56.86	0.0458	0.1530	0.0576	0.1902
EN	4	TX.06 LTE BAND 8	880.0	0.63	4.40	15.40	40.79	0.0409	0.1098	0.0513	0.1365
EN	4	TX.16 LTE BAND 20	832.0	0.63	4.16	15.40	39.66	0.0409	0.1067	0.0513	0.1327
EN	4	TX.17 LTE BAND 28	703.0	0.63	3.52	15.40	36.46	0.0409	0.0981	0.0513	0.1220
EN	4	TX.18 GSM900	880.2	1.98	4.40	27.32	40.79	0.0725	0.1098	0.0911	0.1365
EN	4	TX.19 DCS1800	1710.2	0.99	8.55	19.34	56.86	0.0513	0.1530	0.0645	0.1902



Regional Requirement	Antenna Port	RAT	Frequency (MHz)	RF Exposure Level at minimum compliance boundary of 0.2 m							
				S Power Density (W/m ²)		E Field (V/m)		H Field (A/m)		B Field (μT)	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit
FCC	1	TX.01 BLE2400	2402.0	0.01	10.00	1.94	N/A	0.0051	N/A	0.0065	N/A
FCC	3	TX.03 SRD915	902.0	0.01	6.01	2.18	N/A	0.0058	N/A	0.0073	N/A
FCC	4	TX.04 LTE BAND 1	1920.0	0.79	10.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	4	TX.05 LTE BAND 3	1710.0	0.79	10.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	4	TX.06 LTE BAND 8	880.0	0.63	5.87	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	4	TX.07 LTE BAND 2	1850.0	0.79	10.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	4	TX.08 LTE BAND 4	1710.0	0.79	10.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	4	TX.09 LTE BAND 5	824.0	0.63	5.49	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	4	TX.10 LTE BAND 12	699.0	0.63	4.66	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	4	TX.11 LTE BAND 13	777.0	0.63	5.18	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	4	TX.12 LTE BAND 25	1850.0	0.79	10.00	17.28	N/A	0.0458	N/A	0.0576	N/A
FCC	4	TX.13 LTE BAND 26	814.0	0.63	5.43	15.40	N/A	0.0409	N/A	0.0513	N/A
FCC	4	TX.14 GSM850	824.2	1.57	5.49	24.35	N/A	0.0646	N/A	0.0812	N/A
FCC	4	TX.15 PCS1900	1850.2	0.99	10.00	19.34	N/A	0.0513	N/A	0.0645	N/A
CANADA	1	TX.01 BLE2400	2402.0	0.01	5.35	1.94	44.91	0.0051	0.1191	0.0065	N/A
CANADA	3	TX.03 SRD915	902.0	0.01	2.74	2.18	32.14	0.0058	0.0853	0.0073	N/A
CANADA	4	TX.04 LTE BAND 1	1920.0	0.79	4.59	17.28	41.60	0.0458	0.1104	0.0576	N/A
CANADA	4	TX.05 LTE BAND 3	1710.0	0.79	4.24	17.28	39.99	0.0458	0.1061	0.0576	N/A



Regional Requirement	Antenna Port	RAT	Frequency (MHz)	RF Exposure Level at minimum compliance boundary of 0.2 m							
				S Power Density (W/m ²)		E Field (V/m)		H Field (A/m)		B Field (μT)	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit
CANADA	4	TX.06 LTE BAND 8	880.0	0.63	2.69	15.40	31.87	0.0409	0.0845	0.0513	N/A
CANADA	4	TX.07 LTE BAND 2	1850.0	0.79	4.48	17.28	41.08	0.0458	0.1090	0.0576	N/A
CANADA	4	TX.08 LTE BAND 4	1710.0	0.79	4.24	17.28	39.99	0.0458	0.1061	0.0576	N/A
CANADA	4	TX.09 LTE BAND 5	824.0	0.63	2.58	15.40	31.16	0.0409	0.0827	0.0513	N/A
CANADA	4	TX.10 LTE BAND 12	699.0	0.63	2.30	15.40	29.46	0.0409	0.0781	0.0513	N/A
CANADA	4	TX.11 LTE BAND 13	777.0	0.63	2.47	15.40	30.54	0.0409	0.0810	0.0513	N/A
CANADA	4	TX.12 LTE BAND 25	1850.0	0.79	4.48	17.28	41.08	0.0458	0.1090	0.0576	N/A
CANADA	4	TX.13 LTE BAND 26	814.0	0.63	2.55	15.40	31.03	0.0409	0.0823	0.0513	N/A
CANADA	4	TX.14 GSM850	824.2	1.57	2.58	24.35	31.16	0.0646	0.0827	0.0812	N/A
CANADA	4	TX.15 PCS1900	1850.2	0.99	4.48	19.34	41.08	0.0513	0.1090	0.0645	N/A
AUSTRALIA	1	TX.01 BLE2400	2402.0	0.01	10.00	1.94	61.40	0.0051	0.1630	0.0065	N/A
AUSTRALIA	2	TX.02 SRD434	434.3	0.00	2.17	0.87	28.55	0.0023	0.0759	0.0029	N/A
AUSTRALIA	4	TX.04 LTE BAND 1	1920.0	0.79	9.60	17.28	60.03	0.0458	0.1595	0.0576	N/A
AUSTRALIA	4	TX.05 LTE BAND 3	1710.0	0.79	8.55	17.28	56.65	0.0458	0.1505	0.0576	N/A
AUSTRALIA	4	TX.06 LTE BAND 8	880.0	0.63	4.40	15.40	40.64	0.0409	0.1080	0.0513	N/A
AUSTRALIA	4	TX.09 LTE BAND 5	824.0	0.63	4.12	15.40	39.33	0.0409	0.1045	0.0513	N/A
AUSTRALIA	4	TX.14 GSM850	824.2	1.57	4.12	24.35	39.33	0.0646	0.1045	0.0812	N/A
AUSTRALIA	4	TX.16 LTE BAND 20	832.0	0.63	4.16	15.40	39.52	0.0409	0.1050	0.0513	N/A



Regional Requirement	Antenna Port	RAT	Frequency (MHz)	RF Exposure Level at minimum compliance boundary of 0.2 m							
				S Power Density (W/m ²)		E Field (V/m)		H Field (A/m)		B Field (μT)	
				Result	Limit	Result	Limit	Result	Limit	Result	Limit
AUSTRALIA	4	TX.17 LTE BAND 28	703.0	0.63	3.52	15.40	36.32	0.0409	0.0965	0.0513	N/A
AUSTRALIA	4	TX.18 GSM900	880.2	1.98	4.40	27.32	40.65	0.0725	0.1080	0.0911	N/A
AUSTRALIA	4	TX.19 DCS1800	1710.2	0.99	8.55	19.34	56.66	0.0513	0.1505	0.0645	N/A
NEW ZEALAND	1	TX.01 BLE2400	2402.0	0.01	10.00	1.94	61.00	0.0051	0.1600	0.0065	N/A
NEW ZEALAND	2	TX.02 SRD434	434.3	0.00	2.17	0.87	28.65	0.0023	0.0771	0.0029	N/A
NEW ZEALAND	4	TX.04 LTE BAND 1	1920.0	0.79	9.60	17.28	60.25	0.0458	0.1621	0.0576	N/A
NEW ZEALAND	4	TX.05 LTE BAND 3	1710.0	0.79	8.55	17.28	56.86	0.0458	0.1530	0.0576	N/A
NEW ZEALAND	4	TX.06 LTE BAND 8	880.0	0.63	4.40	15.40	40.79	0.0409	0.1098	0.0513	N/A
NEW ZEALAND	4	TX.09 LTE BAND 5	824.0	0.63	4.12	15.40	39.47	0.0409	0.1062	0.0513	N/A
NEW ZEALAND	4	TX.14 GSM850	824.2	1.57	4.12	24.35	39.47	0.0646	0.1062	0.0812	N/A
NEW ZEALAND	4	TX.16 LTE BAND 20	832.0	0.63	4.16	15.40	39.66	0.0409	0.1067	0.0513	N/A
NEW ZEALAND	4	TX.17 LTE BAND 28	703.0	0.63	3.52	15.40	36.46	0.0409	0.0981	0.0513	N/A
NEW ZEALAND	4	TX.18 GSM900	880.2	1.98	4.40	27.32	40.79	0.0725	0.1098	0.0911	N/A
NEW ZEALAND	4	TX.19 DCS1800	1710.2	0.99	8.55	19.34	56.86	0.0513	0.1530	0.0645	N/A

Table 9 – General Public Individual Transmitter Result

The calculations show that the EUT complies with the general public exposure levels described in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3 Combined Antenna Port RF Exposure Results

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.

Calculations are made on an Excel spreadsheet and numbers may not add up exactly due to rounding.

2.3.1 EN Region – Configuration 13

EN 62311 specifies the method of summation in clause 8.3 with results as follows:

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	N/A	0.0002	N/A	0.0002
2	TX.02 SRD434	434.3	N/A	0.0002	N/A	0.0002
4	TX.04 LTE BAND 1	1920.0	N/A	0.0173	N/A	0.0173
Summation			N/A	0.0177	N/A	0.0177

Table 10 – EN 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	0.0010
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	0.0009
4	TX.04 LTE BAND 1	1920.0	0.0825	0.0823	0.0799	0.0817
Summation			0.0844	0.0842	0.0818	0.0836

Table 11 – EN General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.2 EN Region – Configuration 14

EN 62311 specifies the method of summation in clause 8.3 with results as follows:

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	N/A	0.0002	N/A	0.0002
2	TX.02 SRD434	434.3	N/A	0.0002	N/A	0.0002
4	TX.05 LTE BAND 3	1710.0	N/A	0.0194	N/A	0.0194
Summation			N/A	0.0198	N/A	0.0198

Table 12 – EN 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	0.0010
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	0.0009
4	TX.05 LTE BAND 3	1710.0	0.0926	0.0924	0.0897	0.0917
Summation			0.0945	0.0943	0.0917	0.0936

Table 13 – EN General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.3 EN Region – Configuration 15

EN 62311 specifies the method of summation in clause 8.3 with results as follows:

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	N/A	0.0002	N/A	0.0002
2	TX.02 SRD434	434.3	N/A	0.0002	N/A	0.0002
4	TX.06 LTE BAND 8	880.0	N/A	0.0299	N/A	0.0299
Summation			N/A	0.0303	N/A	0.0303

Table 14 – EN 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	0.0010
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	0.0009
4	TX.06 LTE BAND 8	880.0	0.1430	0.1426	0.1385	0.1415
Summation			0.1449	0.1445	0.1404	0.1435

Table 15 – EN General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.4 EN Region – Configuration 16

EN 62311 specifies the method of summation in clause 8.3 with results as follows:

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	N/A	0.0002	N/A	0.0002
2	TX.02 SRD434	434.3	N/A	0.0002	N/A	0.0002
4	TX.16 LTE BAND 20	832.0	N/A	0.0317	N/A	0.0317
Summation			N/A	0.0321	N/A	0.0321

Table 16 – EN 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	0.0010
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	0.0009
4	TX.16 LTE BAND 20	832.0	0.1512	0.1508	0.1465	0.1497
Summation			0.1531	0.1527	0.1484	0.1516

Table 17 – EN General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.5 EN Region – Configuration 17

EN 62311 specifies the method of summation in clause 8.3 with results as follows:

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	N/A	0.0002	N/A	0.0002
2	TX.02 SRD434	434.3	N/A	0.0002	N/A	0.0002
4	TX.17 LTE BAND 28	703.0	N/A	0.0375	N/A	0.0375
Summation			N/A	0.0379	N/A	0.0379

Table 18 – EN 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	0.0010
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	0.0009
4	TX.17 LTE BAND 28	703.0	0.1790	0.1784	0.1734	0.1771
Summation			0.1809	0.1804	0.1753	0.1791

Table 19 – EN General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.6 EN Region – Configuration 18

EN 62311 specifies the method of summation in clause 8.3 with results as follows:

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	N/A	0.0002	N/A	0.0002
2	TX.02 SRD434	434.3	N/A	0.0002	N/A	0.0002
4	TX.18 GSM900	880.2	N/A	0.0942	N/A	0.0942
Summation			N/A	0.0946	N/A	0.0946

Table 20 – EN 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	0.0010
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	0.0009
4	TX.18 GSM900	880.2	0.4499	0.4486	0.4359	0.4453
Summation			0.4518	0.4505	0.4378	0.4472

Table 21 – EN General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.7 EN Region – Configuration 19

EN 62311 specifies the method of summation in clause 8.3 with results as follows:

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	N/A	0.0002	N/A	0.0002
2	TX.02 SRD434	434.3	N/A	0.0002	N/A	0.0002
4	TX.19 DCS1800	1710.2	N/A	0.0243	N/A	0.0243
Summation			N/A	0.0247	N/A	0.0247

Table 22 – EN 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	0.0010
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	0.0009
4	TX.19 DCS1800	1710.2	0.1161	0.1157	0.1124	0.1149
Summation			0.1180	0.1176	0.1143	0.1168

Table 23 – EN General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.8 FCC Region – Configuration 1

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0004	N/A	N/A	N/A
4	TX.04 LTE BAND 1	1920.0	0.0158	N/A	N/A	N/A
Summation			0.0165	N/A	N/A	N/A

Table 24 - FCC 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0021	N/A	N/A	N/A
4	TX.04 LTE BAND 1	1920.0	0.0792	N/A	N/A	N/A
Summation			0.0823	N/A	N/A	N/A

Table 25 – FCC General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.9 FCC Region – Configuration 2

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0004	N/A	N/A	N/A
4	TX.05 LTE BAND 3	1710.0	0.0158	N/A	N/A	N/A
Summation			0.0165	N/A	N/A	N/A

Table 26 - FCC 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0021	N/A	N/A	N/A
4	TX.05 LTE BAND 3	1710.0	0.0792	N/A	N/A	N/A
Summation			0.0823	N/A	N/A	N/A

Table 27 – FCC General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.10 FCC Region – Configuration 3

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0004	N/A	N/A	N/A
4	TX.06 LTE BAND 8	880.0	0.0214	N/A	N/A	N/A
Summation			0.0221	N/A	N/A	N/A

Table 28 - FCC 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0021	N/A	N/A	N/A
4	TX.06 LTE BAND 8	880.0	0.1072	N/A	N/A	N/A
Summation			0.1103	N/A	N/A	N/A

Table 29 – FCC General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.11 FCC Region – Configuration 4

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0004	N/A	N/A	N/A
4	TX.07 LTE BAND 2	1850.0	0.0158	N/A	N/A	N/A
Summation			0.0165	N/A	N/A	N/A

Table 30 - FCC 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0021	N/A	N/A	N/A
4	TX.07 LTE BAND 2	1850.0	0.0792	N/A	N/A	N/A
Summation			0.0823	N/A	N/A	N/A

Table 31 – FCC General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.12 FCC Region – Configuration 5

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0004	N/A	N/A	N/A
4	TX.08 LTE BAND 4	1710.0	0.0158	N/A	N/A	N/A
Summation			0.0165	N/A	N/A	N/A

Table 32 - FCC 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0021	N/A	N/A	N/A
4	TX.08 LTE BAND 4	1710.0	0.0792	N/A	N/A	N/A
Summation			0.0823	N/A	N/A	N/A

Table 33 – FCC General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.13 FCC Region – Configuration 6

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0004	N/A	N/A	N/A
4	TX.09 LTE BAND 5	824.0	0.0229	N/A	N/A	N/A
Summation			0.0235	N/A	N/A	N/A

Table 34 - FCC 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0021	N/A	N/A	N/A
4	TX.09 LTE BAND 5	824.0	0.1145	N/A	N/A	N/A
Summation			0.1176	N/A	N/A	N/A

Table 35 – FCC General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.14 FCC Region – Configuration 7

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0004	N/A	N/A	N/A
4	TX.10 LTE BAND 12	699.0	0.0270	N/A	N/A	N/A
Summation			0.0276	N/A	N/A	N/A

Table 36 - FCC 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0021	N/A	N/A	N/A
4	TX.10 LTE BAND 12	699.0	0.1350	N/A	N/A	N/A
Summation			0.1381	N/A	N/A	N/A

Table 37 – FCC General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.15 FCC Region – Configuration 8

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0004	N/A	N/A	N/A
4	TX.11 LTE BAND 13	777.0	0.0243	N/A	N/A	N/A
Summation			0.0249	N/A	N/A	N/A

Table 38 - FCC 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0021	N/A	N/A	N/A
4	TX.11 LTE BAND 13	777.0	0.1215	N/A	N/A	N/A
Summation			0.1245	N/A	N/A	N/A

Table 39 – FCC General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.16 FCC Region – Configuration 9

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0004	N/A	N/A	N/A
4	TX.12 LTE BAND 25	1850.0	0.0158	N/A	N/A	N/A
Summation			0.0165	N/A	N/A	N/A

Table 40 - FCC 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0021	N/A	N/A	N/A
4	TX.12 LTE BAND 25	1850.0	0.0792	N/A	N/A	N/A
Summation			0.0823	N/A	N/A	N/A

Table 41 – FCC General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.17 FCC Region – Configuration 10

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0004	N/A	N/A	N/A
4	TX.13 LTE BAND 26	814.0	0.0232	N/A	N/A	N/A
Summation			0.0238	N/A	N/A	N/A

Table 42 - FCC 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0021	N/A	N/A	N/A
4	TX.13 LTE BAND 26	814.0	0.1159	N/A	N/A	N/A
Summation			0.1190	N/A	N/A	N/A

Table 43 – FCC General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.18 FCC Region – Configuration 11

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0004	N/A	N/A	N/A
4	TX.14 GSM850	824.2	0.0572	N/A	N/A	N/A
Summation			0.0579	N/A	N/A	N/A

Table 44 - FCC 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0021	N/A	N/A	N/A
4	TX.14 GSM850	824.2	0.2862	N/A	N/A	N/A
Summation			0.2893	N/A	N/A	N/A

Table 45 – FCC General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.19 FCC Region – Configuration 12

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0004	N/A	N/A	N/A
4	TX.15 PCS1900	1850.2	0.0198	N/A	N/A	N/A
Summation			0.0205	N/A	N/A	N/A

Table 46 - FCC 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	N/A	N/A	N/A
3	TX.03 SRD915	902.0	0.0021	N/A	N/A	N/A
4	TX.15 PCS1900	1850.2	0.0992	N/A	N/A	N/A
Summation			0.1023	N/A	N/A	N/A

Table 47 – FCC General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.20 Canada Region – Configuration 1

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0003	0.0003	0.0003	N/A
3	TX.03 SRD915	902.0	0.0006	0.0006	0.0006	N/A
4	TX.04 LTE BAND 1	1920.0	0.0280	0.0280	0.0280	N/A
Summation			0.0290	0.0290	0.0290	N/A

Table 48 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0019	0.0019	0.0019	N/A
3	TX.03 SRD915	902.0	0.0046	0.0046	0.0046	N/A
4	TX.04 LTE BAND 1	1920.0	0.1725	0.1725	0.1725	N/A
Summation			0.1789	0.1790	0.1789	N/A

Table 49 – CANADA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.21 Canada Region – Configuration 2

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0003	0.0003	0.0003	N/A
3	TX.03 SRD915	902.0	0.0006	0.0006	0.0006	N/A
4	TX.05 LTE BAND 3	1710.0	0.0297	0.0297	0.0297	N/A
Summation			0.0306	0.0306	0.0306	N/A

Table 50 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0019	0.0019	0.0019	N/A
3	TX.03 SRD915	902.0	0.0046	0.0046	0.0046	N/A
4	TX.05 LTE BAND 3	1710.0	0.1867	0.1867	0.1867	N/A
Summation			0.1931	0.1932	0.1931	N/A

Table 51 – CANADA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.22 Canada Region – Configuration 3

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0003	0.0003	0.0003	N/A
3	TX.03 SRD915	902.0	0.0006	0.0006	0.0006	N/A
4	TX.06 LTE BAND 8	880.0	0.0329	0.0329	0.0329	N/A
Summation			0.0338	0.0338	0.0338	N/A

Table 52 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0019	0.0019	0.0019	N/A
3	TX.03 SRD915	902.0	0.0046	0.0046	0.0046	N/A
4	TX.06 LTE BAND 8	880.0	0.2335	0.2336	0.2335	N/A
Summation			0.2400	0.2400	0.2400	N/A

Table 53 – CANADA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.23 Canada Region – Configuration 4

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0003	0.0003	0.0003	N/A
3	TX.03 SRD915	902.0	0.0006	0.0006	0.0006	N/A
4	TX.07 LTE BAND 2	1850.0	0.0285	0.0285	0.0285	N/A
Summation			0.0295	0.0295	0.0295	N/A

Table 54 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0019	0.0019	0.0019	N/A
3	TX.03 SRD915	902.0	0.0046	0.0046	0.0046	N/A
4	TX.07 LTE BAND 2	1850.0	0.1769	0.1770	0.1769	N/A
Summation			0.1834	0.1834	0.1834	N/A

Table 55 – CANADA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.24 Canada Region – Configuration 5

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0003	0.0003	0.0003	N/A
3	TX.03 SRD915	902.0	0.0006	0.0006	0.0006	N/A
4	TX.08 LTE BAND 4	1710.0	0.0297	0.0297	0.0297	N/A
Summation			0.0306	0.0306	0.0306	N/A

Table 56 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0019	0.0019	0.0019	N/A
3	TX.03 SRD915	902.0	0.0046	0.0046	0.0046	N/A
4	TX.08 LTE BAND 4	1710.0	0.1867	0.1867	0.1867	N/A
Summation			0.1931	0.1932	0.1931	N/A

Table 57 – CANADA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.25 Canada Region – Configuration 6

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0003	0.0003	0.0003	N/A
3	TX.03 SRD915	902.0	0.0006	0.0006	0.0006	N/A
4	TX.09 LTE BAND 5	824.0	0.0340	0.0340	0.0340	N/A
Summation			0.0349	0.0349	0.0349	N/A

Table 58 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0019	0.0019	0.0019	N/A
3	TX.03 SRD915	902.0	0.0046	0.0046	0.0046	N/A
4	TX.09 LTE BAND 5	824.0	0.2443	0.2443	0.2443	N/A
Summation			0.2507	0.2507	0.2507	N/A

Table 59 – CANADA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.26 Canada Region – Configuration 7

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0003	0.0003	0.0003	N/A
3	TX.03 SRD915	902.0	0.0006	0.0006	0.0006	N/A
4	TX.10 LTE BAND 12	699.0	0.0369	0.0369	0.0369	N/A
Summation			0.0378	0.0378	0.0378	N/A

Table 60 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0019	0.0019	0.0019	N/A
3	TX.03 SRD915	902.0	0.0046	0.0046	0.0046	N/A
4	TX.10 LTE BAND 12	699.0	0.2733	0.2734	0.2733	N/A
Summation			0.2798	0.2798	0.2798	N/A

Table 61 – CANADA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.27 Canada Region – Configuration 8

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0003	0.0003	0.0003	N/A
3	TX.03 SRD915	902.0	0.0006	0.0006	0.0006	N/A
4	TX.11 LTE BAND 13	777.0	0.0350	0.0350	0.0350	N/A
Summation			0.0359	0.0359	0.0359	N/A

Table 62 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0019	0.0019	0.0019	N/A
3	TX.03 SRD915	902.0	0.0046	0.0046	0.0046	N/A
4	TX.11 LTE BAND 13	777.0	0.2543	0.2543	0.2543	N/A
Summation			0.2607	0.2607	0.2607	N/A

Table 63 – CANADA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.28 Canada Region – Configuration 9

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0003	0.0003	0.0003	N/A
3	TX.03 SRD915	902.0	0.0006	0.0006	0.0006	N/A
4	TX.12 LTE BAND 25	1850.0	0.0285	0.0285	0.0285	N/A
Summation			0.0295	0.0295	0.0295	N/A

Table 64 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0019	0.0019	0.0019	N/A
3	TX.03 SRD915	902.0	0.0046	0.0046	0.0046	N/A
4	TX.12 LTE BAND 25	1850.0	0.1769	0.1770	0.1769	N/A
Summation			0.1834	0.1834	0.1834	N/A

Table 65 – CANADA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.29 Canada Region – Configuration 10

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0003	0.0003	0.0003	N/A
3	TX.03 SRD915	902.0	0.0006	0.0006	0.0006	N/A
4	TX.13 LTE BAND 26	814.0	0.0342	0.0342	0.0342	N/A
Summation			0.0351	0.0351	0.0351	N/A

Table 66 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0019	0.0019	0.0019	N/A
3	TX.03 SRD915	902.0	0.0046	0.0046	0.0046	N/A
4	TX.13 LTE BAND 26	814.0	0.2463	0.2463	0.2463	N/A
Summation			0.2527	0.2528	0.2527	N/A

Table 67 – CANADA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.30 Canada Region – Configuration 11

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0003	0.0003	0.0003	N/A
3	TX.03 SRD915	902.0	0.0006	0.0006	0.0006	N/A
4	TX.14 GSM850	824.2	0.0849	0.0849	0.0849	N/A
Summation			0.0858	0.0858	0.0858	N/A

Table 68 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0019	0.0019	0.0019	N/A
3	TX.03 SRD915	902.0	0.0046	0.0046	0.0046	N/A
4	TX.14 GSM850	824.2	0.6105	0.6106	0.6105	N/A
Summation			0.6170	0.6171	0.6170	N/A

Table 69 – CANADA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.31 Canada Region – Configuration 12

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0003	0.0003	0.0003	N/A
3	TX.03 SRD915	902.0	0.0006	0.0006	0.0006	N/A
4	TX.15 PCS1900	1850.2	0.0357	0.0357	0.0357	N/A
Summation			0.0367	0.0367	0.0367	N/A

Table 70 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0019	0.0019	0.0019	N/A
3	TX.03 SRD915	902.0	0.0046	0.0046	0.0046	N/A
4	TX.15 PCS1900	1850.2	0.2217	0.2217	0.2217	N/A
Summation			0.2281	0.2281	0.2281	N/A

Table 71 – CANADA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.32 Australia Region – Configuration 13

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.04 LTE BAND 1	1920.0	0.0165	0.0165	0.0165	N/A
Summation			0.0169	0.0169	0.0169	N/A

Table 72 – AUSTRALIA 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.04 LTE BAND 1	1920.0	0.0825	0.0829	0.0826	N/A
Summation			0.0844	0.0848	0.0845	N/A

Table 73 – AUSTRALIA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.33 Australia Region – Configuration 14

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.05 LTE BAND 3	1710.0	0.0185	0.0185	0.0185	N/A
Summation			0.0189	0.0189	0.0189	N/A

Table 74 – AUSTRALIA 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.05 LTE BAND 3	1710.0	0.0926	0.0930	0.0927	N/A
Summation			0.0945	0.0949	0.0946	N/A

Table 75 – AUSTRALIA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.34 Australia Region – Configuration 15

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.06 LTE BAND 8	880.0	0.0286	0.0286	0.0286	N/A
Summation			0.0290	0.0290	0.0290	N/A

Table 76 – AUSTRALIA 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.06 LTE BAND 8	880.0	0.1430	0.1436	0.1431	N/A
Summation			0.1449	0.1455	0.1450	N/A

Table 77 – AUSTRALIA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.35 Australia Region – Configuration 16

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.16 LTE BAND 20	832.0	0.0302	0.0302	0.0303	N/A
Summation			0.0306	0.0306	0.0307	N/A

Table 78 – AUSTRALIA 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.16 LTE BAND 20	832.0	0.1512	0.1519	0.1514	N/A
Summation			0.1531	0.1538	0.1533	N/A

Table 79 – AUSTRALIA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.36 Australia Region – Configuration 17

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.17 LTE BAND 28	703.0	0.0358	0.0358	0.0358	N/A
Summation			0.0362	0.0362	0.0362	N/A

Table 80 – AUSTRALIA 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.17 LTE BAND 28	703.0	0.1790	0.1797	0.1792	N/A
Summation			0.1809	0.1817	0.1811	N/A

Table 81 – AUSTRALIA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.37 Australia Region – Configuration 18

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.18 GSM900	880.2	0.0900	0.0900	0.0901	N/A
Summation			0.0904	0.0904	0.0904	N/A

Table 82 – AUSTRALIA 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.18 GSM900	880.2	0.4499	0.4518	0.4504	N/A
Summation			0.4518	0.4537	0.4523	N/A

Table 83 – AUSTRALIA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.38 Australia Region – Configuration 19

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.19 DCS1800	1710.2	0.0232	0.0232	0.0232	N/A
Summation			0.0236	0.0236	0.0236	N/A

Table 84 – AUSTRALIA 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.19 DCS1800	1710.2	0.1161	0.1166	0.1162	N/A
Summation			0.1180	0.1185	0.1181	N/A

Table 85 – AUSTRALIA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.39 Australia Region – Configuration 20

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.09 LTE BAND 5	824.0	0.0305	0.0305	0.0306	N/A
Summation			0.0309	0.0309	0.0309	N/A

Table 86 – AUSTRALIA 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.09 LTE BAND 5	824.0	0.1527	0.1534	0.1529	N/A
Summation			0.1546	0.1553	0.1548	N/A

Table 87 – AUSTRALIA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.40 Australia Region – Configuration 21

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.14 GSM850	824.2	0.0763	0.0763	0.0764	N/A
Summation			0.0767	0.0767	0.0768	N/A

Table 88 – AUSTRALIA 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.14 GSM850	824.2	0.3817	0.3833	0.3820	N/A
Summation			0.3836	0.3852	0.3839	N/A

Table 89 – AUSTRALIA General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.41 New Zealand Region – Configuration 13

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.04 LTE BAND 1	1920.0	0.0165	0.0173	0.0171	N/A
Summation			0.0169	0.0177	0.0175	N/A

Table 90 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.04 LTE BAND 1	1920.0	0.0825	0.0823	0.0799	N/A
Summation			0.0844	0.0842	0.0818	N/A

Table 91 – NEW ZEALAND General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.42 New Zealand Region – Configuration 14

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.05 LTE BAND 3	1710.0	0.0185	0.0194	0.0192	N/A
Summation			0.0189	0.0198	0.0196	N/A

Table 92 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.05 LTE BAND 3	1710.0	0.0926	0.0924	0.0897	N/A
Summation			0.0945	0.0943	0.0917	N/A

Table 93 – NEW ZEALAND General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.43 New Zealand Region – Configuration 15

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.06 LTE BAND 8	880.0	0.0286	0.0299	0.0296	N/A
Summation			0.0290	0.0303	0.0300	N/A

Table 94 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.06 LTE BAND 8	880.0	0.1430	0.1426	0.1385	N/A
Summation			0.1449	0.1445	0.1404	N/A

Table 95 – NEW ZEALAND General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.44 New Zealand Region – Configuration 16

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.16 LTE BAND 20	832.0	0.0302	0.0317	0.0313	N/A
Summation			0.0306	0.0321	0.0317	N/A

Table 96 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.16 LTE BAND 20	832.0	0.1512	0.1508	0.1465	N/A
Summation			0.1531	0.1527	0.1484	N/A

Table 97 – NEW ZEALAND General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.45 New Zealand Region – Configuration 17

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.17 LTE BAND 28	703.0	0.0358	0.0375	0.0371	N/A
Summation			0.0362	0.0379	0.0375	N/A

Table 98 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.17 LTE BAND 28	703.0	0.1790	0.1784	0.1734	N/A
Summation			0.1809	0.1804	0.1753	N/A

Table 99 – NEW ZEALAND General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.46 New Zealand Region – Configuration 18

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.18 GSM900	880.2	0.0900	0.0942	0.0932	N/A
Summation			0.0904	0.0946	0.0936	N/A

Table 100 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.18 GSM900	880.2	0.4499	0.4486	0.4359	N/A
Summation			0.4518	0.4505	0.4378	N/A

Table 101 – NEW ZEALAND General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.47 New Zealand Region – Configuration 19

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.19 DCS1800	1710.2	0.0232	0.0243	0.0240	N/A
Summation			0.0236	0.0247	0.0244	N/A

Table 102 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.19 DCS1800	1710.2	0.1161	0.1157	0.1124	N/A
Summation			0.1180	0.1176	0.1143	N/A

Table 103 – NEW ZEALAND General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.48 New Zealand Region – Configuration 20

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.09 LTE BAND 5	824.0	0.0305	0.0320	0.0316	N/A
Summation			0.0309	0.0324	0.0320	N/A

Table 104 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.09 LTE BAND 5	824.0	0.1527	0.1522	0.1479	N/A
Summation			0.1546	0.1542	0.1499	N/A

Table 105 – NEW ZEALAND General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.3.49 New Zealand Region – Configuration 21

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

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0002	0.0002	0.0002	N/A
2	TX.02 SRD434	434.3	0.0002	0.0002	0.0002	N/A
4	TX.14 GSM850	824.2	0.0763	0.0799	0.0791	N/A
Summation			0.0767	0.0803	0.0795	N/A

Table 106 – 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 point of investigation, a minimum distance of 0.2 m.

Antenna Port	RAT	Frequency (MHz)	Calculated RF exposure level at minimum compliance boundary of 0.2 m as a fraction of the limit			
			S Power Density	E Field	H Field	B Field
			Summation for simultaneous exposure; value to be <1			
1	TX.01 BLE2400	2402.0	0.0010	0.0010	0.0010	N/A
2	TX.02 SRD434	434.3	0.0009	0.0009	0.0009	N/A
4	TX.14 GSM850	824.2	0.3817	0.3805	0.3697	N/A
Summation			0.3836	0.3824	0.3717	N/A

Table 107 – NEW ZEALAND General Public Combined Exposure

The calculations show that the EUT complies with the general public exposure levels described in in the listed specifications in Annex A at the point of investigation, a minimum distance of 0.2 m.



2.4 Far Field Region Boundary Results

The far field region boundary calculation result is shown in Table 108 and Table 109;

Near Field / Far Field Boundary (Ref: EN 62311 / EN 62232 Annex A, AS/NZS 2772.2 Appendix B)			
RAT Name	Frequency MHz	Reactive Near Field Boundary (Wave Impedance Dependent)	Far Field Boundary (Antennas on axis)
		$\lambda/4$ (m)	$2D^2/\lambda$ (m)
TX.01 BLE2400	2402.0	0.0312	0.0019
TX.02 SRD434	434.3	0.1727	0.0072
TX.04 LTE BAND 1	1920.0	0.0391	0.0541
TX.05 LTE BAND 3	1710.0	0.0439	0.0482
TX.06 LTE BAND 8	880.0	0.0852	0.0248
TX.09 LTE BAND 5	824.0	0.0910	0.0232
TX.14 GSM850	824.2	0.0910	0.0232
TX.16 LTE BAND 20	832.0	0.0901	0.0234
TX.17 LTE BAND 28	703.0	0.1067	0.0198
TX.18 GSM900	880.2	0.0852	0.0248
TX.19 DCS1800	1710.2	0.0439	0.0482

Table 108 – Far Field Boundary (EN, AUSTRALIA, NEW-ZEALAND)

Near Field / Far Field Boundary (Ref: FCC 1.1307(b)(3)(i)(C), Technical Guide for Interpretation and Compliance Assessment of Health Canada's Radiofrequency Exposure Guidelines 7.1)			
RAT Name	Frequency MHz	Reactive Near Field Boundary (Wave Impedance Dependent)	Far Field Boundary (Antennas on axis)
		$\lambda/2\pi$ (m)	$2D^2/\lambda$ (m)
TX.01 BLE2400	2402.0	0.0312	0.0019
TX.03 SRD915	902.0	0.0831	0.0038
TX.04 LTE BAND 1	1920.0	0.0391	0.0541
TX.05 LTE BAND 3	1710.0	0.0439	0.0482
TX.06 LTE BAND 8	880.0	0.0852	0.0248
TX.07 LTE BAND 2	1850.0	0.0405	0.0521
TX.08 LTE BAND 4	1710.0	0.0439	0.0482
TX.09 LTE BAND 5	824.0	0.0910	0.0232
TX.10 LTE BAND 12	699.0	0.1073	0.0197
TX.11 LTE BAND 13	777.0	0.0965	0.0219
TX.12 LTE BAND 25	1850.0	0.0405	0.0521
TX.13 LTE BAND 26	814.0	0.0921	0.0229
TX.14 GSM850	824.2	0.0910	0.0232
TX.15 PCS1900	1850.2	0.0405	0.0521



Table 109 – Far Field Boundary (FCC, CANADA)

The table below shows the maximum calculated near field / far field region boundaries.

The compliance boundary of 0.2 m is in the far field region and therefore, the approach described in section 2.1 is valid.

Field Region	Reactive Near Field Region	Radiating Near Field Region	Far Field Region
Maximum Boundary	<0.1727 m	N/A	> 0.1727 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	N/A	0.2 m

Table 110 – Assessment Method Validity

2.5 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. 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 2.4.



ANNEX A

REGIONAL REQUIREMENTS



Frequency Range (MHz)	Power Density (W/m ²)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	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*f ^{0.5}	N/A	1E-2*f ^{0.5}
2000 - 6000		140	N/A	0.45
6000 - 300000	50	140	N/A	0.45

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

Frequency Range (MHz)	Power Density (W/m ²)	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*f ^{0.5}	0.0037*f ^{0.5}	0.0046*f ^{0.5}
2000 - 300000	10	61	0.16	0.2

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



Frequency Range (MHz)	Power Density (mW/cm ²) Note 1	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 – FCC CFR 47 Pt.1.1310 Worker/Occupational Limits

Frequency Range (MHz)	Power Density (mW/cm ²) Note 1	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 – FCC CFR 47 Pt.1.1310 General Public Limits

Note 1: The calculations and limits presented in this report for power density are in units of W/m². The conversion factor is; 1 mW/cm² = 10 W/m².

Frequency Range (MHz)	Power Density (W/m ²)	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 ²)	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 ²)	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 ²)	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	Power Density (W/m ²)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)
0 - 1 Hz	-	-	1.63*10 ⁵
1 - 8 Hz	-	20000	1.63*10 ⁵ /f ²
8 - 5 Hz	-	20000	2*10 ⁴ /f
0.025 - 0.82 kHz	-	500/f	20/f
0.82 - 65 kHz	-	610	24.4
0.065 - 1 MHz	-	610	1.6/f
1 - 10 MHz	-	610/f	1.6/f
10 - 400 MHz	10	61	0.16
400 - 2000 MHz	f/40	3*f ^{0.5}	0.008*f ^{0.5}
2000 - 300000 MHz	50	137	0.36

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

Frequency Range	Power Density (W/m ²)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)
0 - 1 Hz	-	-	3.2*10 ⁴
1 - 8 Hz	-	10000	3.2*10 ⁴ /f ²
8 - 5 Hz	-	10000	4000/f
0.025 - 0.8 kHz	-	250/f	4/f
0.8 - 3 kHz	-	250/f	5
3 - 150 kHz	-	87	5
0.15 - 1 MHz	-	87	0.73/f
1 - 10 MHz	-	87/f ^{0.5}	0.73/f
10 - 400 MHz	2	87/f ^{0.5}	0.073
400 - 2000 MHz	f/200	28	0.0037*f ^{0.5}
2000 - 300000 MHz	10		0.16

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