

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	1136980
Licensee	Vodafone Hutchison Australia Pty Limited
Licensee address	Attn Paul Kinnane PO Box 1113, NORTH SYDNEY, NSW 2060

Licence details

Licence service	PTS
Licence subservice	PMTS Class B
Licence number	9996196/1
Date of issue	18/05/2023
Date of effect	18/05/2023
Date of expiry	12/05/2024

Licence conditions

Your licence is subject to conditions set out in the *Radiocommunications Act 1992*. Your licence may also be subject to such other licence conditions as determined by the ACMA (in licence condition determinations) from time to time, and is also subject to special conditions as detailed on this licence.

The conditions that are imposed on a licence vary according to the type of licence issued, the service being operated and the section of the *Radiocommunications Act 1992* under which the licence has been issued. For further information about the conditions that apply to your licence, please contact the ACMA (see contact details below).

Rights of appeal

A decision by the ACMA to impose further conditions or revoke or vary the conditions of your licence may be reviewable. If you are affected by, and dissatisfied with, such a decision you may apply to the ACMA to have the ACMA reconsider the decision under section 288 of the *Radiocommunications Act 1992*.

An application for reconsideration must state the reasons for the request, and should be sent to the Customer Service Centre, Australian Communications and Media Authority, PO Box 78, Belconnen, ACT, 2616. Applications for review of decisions can be made using the R051 - Application for review of Decision form, available on the ACMA website.

Important

An application for the ACMA to reconsider a decision to impose or vary licence conditions must be made to the ACMA within 28 days of the day on which you are informed of the decision. An application for reconsideration made after that time may not be accepted.

ACMA contact details

Customer Service Centre
PO Box 78
BELCONNEN ACT 2616

Telephone: 1300 850 115
Email: info@acma.gov.au

ACMA website: www.acma.gov.au

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 1:

Site details

Site ID	16540
Site address	Water Tower Aberdeen Ave, MARYBOROUGH QLD 4650
Co-ordinates (GDA94)	Latitude: -25.519821 Longitude: 152.689546

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357566
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357567
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 1

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

Special Conditions applying to Station 1

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 2:

Site details

Site ID	402081
Site address	Vodafone Site, Grainco Grain Elevators cnr Leichhardt Hwy & McNulty St, MILES QLD 4415
Co-ordinates (GDA94)	Latitude: -26.666715 Longitude: 150.195883

Transmitter details

Assigned frequency	2.11250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357568
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357569
Transmitter power	N/A
EIRP	N/A
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 2

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 2

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 3:

Site details

Site ID	461125
Site address	Vodafone Site, Grain Silo Dunn St, BILOELA QLD 4715
Co-ordinates (GDA94)	Latitude: -24.398417 Longitude: 150.505901

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357570
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357571
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 3

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 3

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 4:

Site details	
Site ID	400907
Site address	Telstra Radio Terminal, 28-30 Reservoir St, KINGAROY QLD 4610
Co-ordinates (GDA94)	Latitude: -26.530415 Longitude: 151.850229

Transmitter details	
Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357572
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357573
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 4

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

Special Conditions applying to Station 4

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 5:

Site details

Site ID	16623
Site address	Telstra Radio Terminal, MT KANIGAN QLD 4570
Co-ordinates (GDA94)	Latitude: -25.966366 Longitude: 152.584895

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357574
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357575
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 5

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

Special Conditions applying to Station 5

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 6:

Site details	
Site ID	460494
Site address	Vodafone/Optus Site Bruce Highway, TORBANLEA QLD 4650
Co-ordinates (GDA94)	Latitude: -25.407851 Longitude: 152.616356

Transmitter details	
Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357576
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357577
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 6

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

Special Conditions applying to Station 6

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 7:

Site details

Site ID	460487
Site address	Vodafone/Optus Site cnr Duckinwilla Rd & Old Bruce Hwy, HOWARD QLD 4650
Co-ordinates (GDA94)	Latitude: -25.324229 Longitude: 152.53748

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357578
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357579
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 7

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

Special Conditions applying to Station 7

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 8:

Site details

Site ID	460463
Site address	Vodafone/Optus Site Trevors Road, CHILDERS QLD 4660
Co-ordinates (GDA94)	Latitude: -25.212502 Longitude: 152.179307

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357580
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357581
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 8

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 8

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 9:

Site details

Site ID	460464
Site address	Optus/Vodafone Co-location Site Kirks Rd, BOOYAL QLD 4671
Co-ordinates (GDA94)	Latitude: -25.188656 Longitude: 152.020809

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357582
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357583
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 9

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 9

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 10:

Site details

Site ID	16847
Site address	Powerlink/Optus/Vodafone/Telstra Site near, MT KICKING QLD 4671
Co-ordinates (GDA94)	Latitude: -24.911739 Longitude: 151.840856

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357584
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357585
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 10

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 10

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 11:

Site details

Site ID	460721
Site address	Optus/Vodafone Site, TOONBORO MOUNTAIN QLD 4676
Co-ordinates (GDA94)	Latitude: -24.744087 Longitude: 151.677127

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357586
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357587
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 11

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 11

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 12:

Site details

Site ID	460467
Site address	Vodafone/Optus Site, MT ELMO QLD 4680
Co-ordinates (GDA94)	Latitude: -24.470983 Longitude: 151.597122

Transmitter details

Assigned frequency	2.11250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357588
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357589
Transmitter power	N/A
EIRP	N/A
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 12

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 12

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 13:

Site details

Site ID	460465
Site address	Optus/Vodafone Co-location Site Tirroan Rd, GIN GIN QLD 4671
Co-ordinates (GDA94)	Latitude: -25.003234 Longitude: 151.953436

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357590
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357591
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 13

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 13

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 14:

Site details

Site ID	14794
Site address	Water Tower, cnr Middle & Colamba Sts, CHINCHILLA QLD 4413
Co-ordinates (GDA94)	Latitude: -26.742201 Longitude: 150.625611

Transmitter details

Assigned frequency	2.11250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357592
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357593
Transmitter power	N/A
EIRP	N/A
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 14

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 14

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 15:

Site details	
Site ID	9014581
Site address	Optus Tower Tin Can Bay, Bayside Road, TIN CAN BAY QLD 4581
Co-ordinates (GDA94)	Latitude: -25.951156 Longitude: 152.979575

Transmitter details	
Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357594
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357595
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 15

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

Special Conditions applying to Station 15

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 16:

Site details

Site ID	16757
Site address	Vodafone/Chan 7 Site, Quay St, BUNDABERG QLD 4670
Co-ordinates (GDA94)	Latitude: -24.867409 Longitude: 152.341098

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357596
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357597
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 16

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 16

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 17:

Site details

Site ID	16757
Site address	Vodafone/Chan 7 Site, Quay St, BUNDABERG QLD 4670
Co-ordinates (GDA94)	Latitude: -24.867409 Longitude: 152.341098

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357598
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357599
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 17

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 17

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 18:

Site details

Site ID	16757
Site address	Vodafone/Chan 7 Site, Quay St, BUNDABERG QLD 4670
Co-ordinates (GDA94)	Latitude: -24.867409 Longitude: 152.341098

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357600
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357601
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 18

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 18

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 19:

Site details

Site ID	16933
Site address	Water Reservoir, Off Centenary Drive, BOYNE ISLAND QLD 4680
Co-ordinates (GDA94)	Latitude: -23.945258 Longitude: 151.346569

Transmitter details

Assigned frequency	2.11250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357602
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357603
Transmitter power	N/A
EIRP	N/A
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 19

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 19

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 20:

Site details	
Site ID	460631
Site address	Water Tower Edward & Stewart Sts, URANGAN QLD 4655
Co-ordinates (GDA94)	Latitude: -25.289955 Longitude: 152.903925

Transmitter details	
Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357604
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357605
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 20

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

Special Conditions applying to Station 20

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 21:

Site details

Site ID	135340
Site address	Optus Site Rainbow Beach, Cooloola Drive, RAINBOW BEACH QLD 4581
Co-ordinates (GDA94)	Latitude: -25.910491 Longitude: 153.095603

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357606
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357607
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 21

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

Special Conditions applying to Station 21

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 22:

Site details

Site ID	135340
Site address	Optus Site Rainbow Beach, Cooloola Drive, RAINBOW BEACH QLD 4581
Co-ordinates (GDA94)	Latitude: -25.910491 Longitude: 153.095603

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357608
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357609
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 22

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

Special Conditions applying to Station 22

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 23:

Site details

Site ID	135340
Site address	Optus Site Rainbow Beach, Cooloola Drive, RAINBOW BEACH QLD 4581
Co-ordinates (GDA94)	Latitude: -25.910491 Longitude: 153.095603

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357610
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357611
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 23

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

Special Conditions applying to Station 23

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 24:

Site details

Site ID	502355
Site address	Vodafone/Optus Site Metro Inn, 22-24 Roseberry St, GLADSTONE QLD 4680
Co-ordinates (GDA94)	Latitude: -23.841683 Longitude: 151.255364

Transmitter details

Assigned frequency	2.11250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357612
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357613
Transmitter power	N/A
EIRP	N/A
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 24

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 24

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 25:

Site details	
Site ID	460498
Site address	Vodafone/Optus Site Wilsons Road, TIARO QLD 4650
Co-ordinates (GDA94)	Latitude: -25.714071 Longitude: 152.614522

Transmitter details	
Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357614
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357615
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 25

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

Special Conditions applying to Station 25

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 26:

Site details

Site ID	460498
Site address	Vodafone/Optus Site Wilsons Road, TIARO QLD 4650
Co-ordinates (GDA94)	Latitude: -25.714071 Longitude: 152.614522

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357616
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357617
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 26

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

Special Conditions applying to Station 26

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 27:

Site details

Site ID	460498
Site address	Vodafone/Optus Site Wilsons Road, TIARO QLD 4650
Co-ordinates (GDA94)	Latitude: -25.714071 Longitude: 152.614522

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357618
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357619
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 27

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

Special Conditions applying to Station 27

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 28:

Site details

Site ID	16710
Site address	Council Reservoir Churchill & Ernest Sts, CHILDERS QLD 4660
Co-ordinates (GDA94)	Latitude: -25.235469 Longitude: 152.280469

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357620
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357621
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 28

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 28

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 29:

Site details

Site ID	16710
Site address	Council Reservoir Churchill & Ernest Sts, CHILDERS QLD 4660
Co-ordinates (GDA94)	Latitude: -25.235469 Longitude: 152.280469

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357622
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357623
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 29

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 29

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 30:

Site details

Site ID	16710
Site address	Council Reservoir Churchill & Ernest Sts, CHILDERS QLD 4660
Co-ordinates (GDA94)	Latitude: -25.235469 Longitude: 152.280469

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357624
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357625
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 30

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 30

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 31:

Site details	
Site ID	460466
Site address	Vodafone/Optus Site Foleys Rd & Isis Hwy, CORDALBA QLD 4660
Co-ordinates (GDA94)	Latitude: -25.072375 Longitude: 152.237869

Transmitter details	
Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357626
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357627
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 31

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 31

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 32:

Site details

Site ID	460466
Site address	Vodafone/Optus Site Foleys Rd & Isis Hwy, CORDALBA QLD 4660
Co-ordinates (GDA94)	Latitude: -25.072375 Longitude: 152.237869

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357628
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357629
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 32

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 32

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 33:

Site details

Site ID	460466
Site address	Vodafone/Optus Site Foleys Rd & Isis Hwy, CORDALBA QLD 4660
Co-ordinates (GDA94)	Latitude: -25.072375 Longitude: 152.237869

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357630
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357631
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 33

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 33

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 34:

Site details

Site ID	401602
Site address	Optus/Voda Site Cnr Isis Hwy & Walkers Rd, BINGERA QLD 4670
Co-ordinates (GDA94)	Latitude: -24.960008 Longitude: 152.233926

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357632
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357633
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 34

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 34

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 35:

Site details

Site ID	401602
Site address	Optus/Voda Site Cnr Isis Hwy & Walkers Rd, BINGERA QLD 4670
Co-ordinates (GDA94)	Latitude: -24.960008 Longitude: 152.233926

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357634
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357635
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 35

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 35

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 36:

Site details

Site ID	401602
Site address	Optus/Voda Site Cnr Isis Hwy & Walkers Rd, BINGERA QLD 4670
Co-ordinates (GDA94)	Latitude: -24.960008 Longitude: 152.233926

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357636
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357637
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 36

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 36

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 37:

Site details

Site ID	16905
Site address	Powerlink Site, WESTWOOD RANGE QLD 4677
Co-ordinates (GDA94)	Latitude: -24.311781 Longitude: 151.62444

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357638
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357639
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 37

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 37

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 38:

Site details

Site ID	460470
Site address	Vodafone/Optus Site Christensen Rd off Dude Ranch Rd, IVERAGH QLD 4680
Co-ordinates (GDA94)	Latitude: -24.131928 Longitude: 151.445883

Transmitter details

Assigned frequency	2.11250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357640
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357641
Transmitter power	N/A
EIRP	N/A
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 38

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 38

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 39:

Site details

Site ID	460471
Site address	Vodafone/Optus Site Elizabeth Peak off Weerona Rd, CALLIOPE QLD 4680
Co-ordinates (GDA94)	Latitude: -23.976429 Longitude: 151.209764

Transmitter details

Assigned frequency	2.11250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357642
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357643
Transmitter power	N/A
EIRP	N/A
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 39

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 39

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 40:

Site details

Site ID	460472
Site address	Vodafone Optus, Site Woodridge, MOUNT LARCOM QLD 4680
Co-ordinates (GDA94)	Latitude: -23.92071 Longitude: 151.052642

Transmitter details

Assigned frequency	2.11250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357644
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357645
Transmitter power	N/A
EIRP	N/A
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 40

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 40

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 41:

Site details

Site ID	460472
Site address	Vodafone Optus, Site Woodridge, MOUNT LARCOM QLD 4680
Co-ordinates (GDA94)	Latitude: -23.92071 Longitude: 151.052642

Transmitter details

Assigned frequency	2.11250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357646
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0001357647
Transmitter power	N/A
EIRP	N/A
Emission designator	5M00W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 41

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 41

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 42:

Site details	
Site ID	9010524
Site address	Avenell Heights, 8 Heaps Street, AVENELL HEIGHTS QLD 4670
Co-ordinates (GDA94)	Latitude: -24.8936 Longitude: 152.359588

Transmitter details	
Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357648
Transmitter power	39.81 W
EIRP	1.12 kW
Emission designator	10M0W7D

Antenna details	
Antenna ID	81281
Antenna polarisation	S - Slant
Antenna azimuth	20.00
Antenna height (m)	31
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357649
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details	
Antenna ID	81281
Antenna polarisation	S - Slant
Antenna azimuth	20.00
Antenna height (m)	31
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 42

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 42

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 43:

Site details

Site ID	9010524
Site address	Avenell Heights, 8 Heaps Street, AVENELL HEIGHTS QLD 4670
Co-ordinates (GDA94)	Latitude: -24.8936 Longitude: 152.359588

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357650
Transmitter power	39.81 W
EIRP	1.12 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81281
Antenna polarisation	S - Slant
Antenna azimuth	150.00
Antenna height (m)	31
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357651
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81281
Antenna polarisation	S - Slant
Antenna azimuth	150.00
Antenna height (m)	31
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 43

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 43

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 44:

Site details

Site ID	9010524
Site address	Avenell Heights, 8 Heaps Street, AVENELL HEIGHTS QLD 4670
Co-ordinates (GDA94)	Latitude: -24.8936 Longitude: 152.359588

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357652
Transmitter power	39.81 W
EIRP	1.12 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81281
Antenna polarisation	S - Slant
Antenna azimuth	270.00
Antenna height (m)	31
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357653
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81281
Antenna polarisation	S - Slant
Antenna azimuth	270.00
Antenna height (m)	31
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 44

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 44

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 45:

Site details	
Site ID	9019317
Site address	NBN Co Site, 8131 Bunya Hwy, KUMBIA QLD 4610
Co-ordinates (GDA94)	Latitude: -26.688386 Longitude: 151.648392

Transmitter details	
Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357654
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357655
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 45

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

Special Conditions applying to Station 45

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 46:

Site details	
Site ID	9019317
Site address	NBN Co Site, 8131 Bunya Hwy, KUMBIA QLD 4610
Co-ordinates (GDA94)	Latitude: -26.688386 Longitude: 151.648392

Transmitter details	
Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357656
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357657
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details	
Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 46

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

Special Conditions applying to Station 46

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 47:

Site details

Site ID	9019317
Site address	NBN Co Site, 8131 Bunya Hwy, KUMBIA QLD 4610
Co-ordinates (GDA94)	Latitude: -26.688386 Longitude: 151.648392

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357658
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357659
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 47

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

Special Conditions applying to Station 47

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 48:

Site details

Site ID	9010525
Site address	Bundy, 29 Steptoe, BUNDABERG QLD 4670
Co-ordinates (GDA94)	Latitude: -24.864229 Longitude: 152.37811

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357660
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357661
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 48

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 48

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 49:

Site details

Site ID	9010525
Site address	Bundy, 29 Steptoe, BUNDABERG QLD 4670
Co-ordinates (GDA94)	Latitude: -24.864229 Longitude: 152.37811

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357662
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357663
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 49

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 49

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 50:

Site details

Site ID	9010525
Site address	Bundy, 29 Steptoe, BUNDABERG QLD 4670
Co-ordinates (GDA94)	Latitude: -24.864229 Longitude: 152.37811

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357664
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357665
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 50

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 50

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 51:

Site details

Site ID	9013353
Site address	Optus Tower Gooburrum, Barber ST Street, GOOBURRUM QLD 4670
Co-ordinates (GDA94)	Latitude: -24.850983 Longitude: 152.340393

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357666
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357667
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 51

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 51

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 52:

Site details

Site ID	9013353
Site address	Optus Tower Gooburrum, Barber ST Street, GOOBURRUM QLD 4670
Co-ordinates (GDA94)	Latitude: -24.850983 Longitude: 152.340393

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357668
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357669
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 52

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 52

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 53:

Site details

Site ID	9013353
Site address	Optus Tower Gooburrum, Barber ST Street, GOOBURRUM QLD 4670
Co-ordinates (GDA94)	Latitude: -24.850983 Longitude: 152.340393

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357670
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357671
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 53

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 53

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 54:

Site details

Site ID	135042
Site address	Optus Site Svensson Heights, 15 Enterprise Street, BUNDABERG WEST QLD 4670
Co-ordinates (GDA94)	Latitude: -24.885929 Longitude: 152.325496

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357672
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357673
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 54

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 54

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 55:

Site details

Site ID	135042
Site address	Optus Site Svensson Heights, 15 Enterprise Street, BUNDABERG WEST QLD 4670
Co-ordinates (GDA94)	Latitude: -24.885929 Longitude: 152.325496

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357674
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357675
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	120.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 55

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 55

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 56:

Site details

Site ID	135042
Site address	Optus Site Svensson Heights, 15 Enterprise Street, BUNDABERG WEST QLD 4670
Co-ordinates (GDA94)	Latitude: -24.885929 Longitude: 152.325496

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357676
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357677
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 56

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 56

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 57:

Site details

Site ID	9014572
Site address	Optus Monopole, Bargara Golf Club off Howard St, BARGARA QLD 4670
Co-ordinates (GDA94)	Latitude: -24.822614 Longitude: 152.463873

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357678
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357679
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 57

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 57

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 58:

Site details

Site ID	9014572
Site address	Optus Monopole, Bargara Golf Club off Howard St, BARGARA QLD 4670
Co-ordinates (GDA94)	Latitude: -24.822614 Longitude: 152.463873

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357680
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357681
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 58

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 58

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 59:

Site details

Site ID	9010736
Site address	Optus Monopole, 131 Atkinsons Road, ELLIOT HEADS QLD 4670
Co-ordinates (GDA94)	Latitude: -24.899117 Longitude: 152.477182

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357682
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357683
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 59

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 59

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 60:

Site details

Site ID	9010736
Site address	Optus Monopole, 131 Atkinsons Road, ELLIOT HEADS QLD 4670
Co-ordinates (GDA94)	Latitude: -24.899117 Longitude: 152.477182

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357684
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357685
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 60

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 60

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 61:

Site details

Site ID	16807
Site address	Water Tower, BURNETT HEADS QLD 4670
Co-ordinates (GDA94)	Latitude: -24.764891 Longitude: 152.411863

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357686
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357687
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	0.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 61

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 61

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 62:

Site details

Site ID	16807
Site address	Water Tower, BURNETT HEADS QLD 4670
Co-ordinates (GDA94)	Latitude: -24.764891 Longitude: 152.411863

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357688
Transmitter power	39.81 W
EIRP	1.32 kW
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0001357689
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0W7D

Antenna details

Antenna ID	81270
Antenna polarisation	S - Slant
Antenna azimuth	240.00
Antenna height (m)	30
Antenna type	Panel (1 sector)-R

Advisory Notes applying to Station 62

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- protection from such interference cannot be afforded.

Special Conditions applying to Station 62

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.