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SPECTRUM MANAGEMENT POLICY & GUIDELINES

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1. Introduction

The radio spectrum is a vital natural resource that countries should have control of and manage. The demand for the use of frequencies and the range of the services in Samoa for which spectrum is used has increased dramatically in recent years and is expected to continue to grow at a rapid pace. The most remarkable example of this rapid growth is the demand for wireless services with the growth of mobile telephony service not only in Samoa but world wide. Also the number of broadcasting companies submitting applications for frequency authorizations to improve their coverage adds to this increasing usage. The Office of the Regulator is charged with the responsibility under the Telecommunications Act 2005 as amended, section 8 (1) h; (“Act”) *to establish a radio spectrum plan and manage radio spectrum allocated to the telecommunications sector.* The purpose of such a plan would be to make sure that spectrum is available for these new applications and services. The Government of Samoa through the Office of the Regulator has taken steps to improve the Samoa Radio Spectrum Management Regime in order to provide the users with an incentive to use it effectively and efficiently. It is also important that the framework for spectrum management should keep pace with the technological changes in today’s world.

2. Purpose

The purpose of this Policy is to set forth the policies and guidelines for the use of the radio spectrum in Samoa. The intent is to ensure that the principles of good spectrum management would be achieved in order to maximize the efficient use of radio spectrum and to ensure that spectrum is made available for new technologies and services, and that further flexibility is preserved to adapt to new market needs. It is also the intention of the OOTR to develop a fair and transparent process for the issuing of spectrum licenses. It is also the intention of the OOTR to make allocations and assignments based on marketplace demands and other relevant means. This Policy should also promote competition and to ensure that spectrum is available to provide important public benefits (i.e. safety and health).

3. Scope

This policy applies to all aspects of the Telecommunication Networks in Samoa who are users of the Spectrum whether on a primary or secondary basis. It includes all services using the spectrum whether for public, private, administrative, academic or commercial use.

4. Background Information

In Samoa, the management of the spectrum is based on the “Act” which provides the framework for radio spectrum management and recognises Samoa’s obligations to the worldwide radio communication community as a signatory to the International Telecommunication Union (ITU) Convention.

The Office of the Regulator is responsible for developing policies and goals for radio spectrum as a scarce resource, ensuring effective management of the radio frequency spectrum, encouraging development and operation of communications in the national interest, taking into account international implications.

Samoa’s radiocommunications sector includes but is not limited to the following:

- Commercial services, which include telecommunications (fixed as well as cellular).
- Broadcasting (radio and television)
- Police emergency services and other public safety and security providers;
- Short-range communications systems and low-power short- range technology,
- Aeronautical, maritime, land and satellite-based communication, meteorology.

4.1 Spectrum Management

The Policy addresses the general principles to be applied in the allocation and assignment of frequencies and further the associated Plan addresses the implementation mechanisms for these policies. It sets out the allocation of the frequency bands to the various types of services in Samoa. The allocations and the supply of the Spectrum are governed by the Recommendations of the International Telecommunication Union (ITU) and the World Radio Conferences (WRC). These allocations are based on the three ITU Regions, where Samoa and the Pacific are in Region 3.

There are basically four main areas of work involved in Spectrum Management. They are a) Planning b) Engineering c) Authorisation and d) Monitoring.

- **Spectrum Planning** is basically the allocation of the different parts of the frequency spectrum to specified uses in accordance with international agreements and standards, technical specifications and national priorities and policies.
- **Spectrum Authorisation** involves granting access under certain conditions to the spectrum resources by various types of radio communication equipments and the certification of radio operators. This is in accordance with the Telecommunications Act

2005, and it involves issuing licences to allow providers the use of specified spectrum resources.

- **Spectrum Engineering** involves the development of electromagnetic compatibility standards for equipment that is type approved. Type approval would cover compatibility and interoperability for emissions as well as susceptibility to radio frequencies.
- **Spectrum Monitoring and Compliance** involves the monitoring of the use of radio spectrum and the implementation of measures to control unauthorised use and unwanted interference.

4.2 How is the Spectrum Managed?

The Office of the Regulator has been given the authority under the Telecommunication Act 2005 "Act" to take responsibility over the managing of the Spectrum. The "Act" empowers the Regulator to develop a spectrum plan, and provides that use of spectrum shall comply with the Spectrum Management Plan which defines how the spectrum is to be used and the methodology for assignment and reassignment of the spectrum.

The Spectrum Management Plan sets out the allocation of frequency bands to the various types of services. It is therefore the first document that must be referred to in the planning and implementation of radiocommunications services in Samoa. Other documents may be prepared by the Office of the Regulator to supplement the conditions by which these services are deployed in order to promote efficient spectrum management in Samoa. Although the Office of the Regulator manages the electromagnetic spectrum, the overall management is coordinated on a global basis by the International Telecommunication Union (ITU) as publicized in their Recommendations on Radio communication Sector (ITU-R). The purpose of ITU-R is to ensure rational, equitable, efficient and economic use of the radio frequency spectrum by all radio communications services including satellite services.

In addition to activities approved by ITU, there are often bilateral and multilateral agreements by which the use of Spectrum is harmonized across national borders.

4.3 Regulatory Frameworks for Spectrum Management

A regulatory framework for radio spectrum policy is a pre-requisite in order that the use of radio spectrum is done in accordance with the recommendations from ITU and with the regulatory requirements of Samoa. The Office of the Regulator who is the Authority in Samoa to regulate the spectrum has to make decisions about the usage of the Spectrum and further the conditions for authorizing this use. The objective is to ensure

that the spectrum is used in an effective and efficient manner and is available to all. In order to ensure that the policy remains relevant and reflect technological advances, The OOTR will review this policy and other related documentation every three years.

5. Objectives and Guidelines

The OOTR is committed under its role mandated by “The Act” to manage the spectrum effectively and efficiently for the maximum benefit of not only the licensed operators but the people of Samoa. There are processes in place for issuing of spectrum licences and in the process including an open consultation process, whereby applicants must be able to demonstrate that they have the financial as well as technical capability to operate on these frequencies. It is also important that, subject to the nature of the licences which have been granted, that there is provision to allow for spectrum to be taken back where it is not being used, or where it is not being used efficiently. This is due to it being an important, limited and valuable natural resource. It is crucial that Samoa is not exposed to situations whereby people are “spectrum squatting”, and attempt to hoard available spectrum which they know will become valuable in coming months/years.

Policy Guideline 1: Radio Services

Frequency allocations will be made for emergency services such as health and welfare as well as for national security services, which are to be utilized in saving and protecting the lives of the public.

Policy Guideline 2: Frequency Sharing

OOTR will promote radio frequency spectrum sharing either on a primary or secondary¹ basis while taking into account spectrum efficiency and operational requirements of services including harmful interference. These should be encouraged for all services using the spectrum

Policy Guideline 3: Frequency Authorisation

OOTR shall establish/formulate radio frequency licences and issue them to all eligible companies/institutions/parties in accordance with the Telecommunications Act 2005. Frequency Authorisations shall be valid for a period of fifteen years to be renewed annually, an annual frequency usage fee shall be applicable. The assignment of radio frequencies and radio systems shall generally be conducted on first-come-first-served basis in accordance with established application processing procedures for bands where there is sufficient supply of spectrum. In special cases to be determined on a case by

¹ Primary and Secondary Services are defined in Policy 11 and Definitions on Page 15 & 16

case basis the OOTR may in consultation with parties agree to use other methods for allocation and assignment where the expected demand for the frequency exceeds the estimated available resources. The OOTR shall ensure that the frequencies and radio systems are put into use and brought into operation within the first six months of the specific period provided in the licences. If the operator fails to use the spectrum within this build out period, OOTR reserves the right to cancel the authorisation and return the frequency to the pool and make it available. The service provider or the end user is responsible for reporting any changes made to the authorised frequency if there is a change in the use rather than what is mentioned in the license. No user/provider shall use any frequency without authorisation by the Office of the Regulator.

Policy Guideline 4: Universal Access

OOTR shall reserve spectrum for deployment of wireless technologies in rural and other underserved areas and shall give incentives that may include differential pricing for spectrum for deployment of services in such areas. The providers of such services using frequencies shall make sure that the services that they provided as a result of using the frequency is part of their Universal Access commitment.

Policy Guideline 5: Fees Exemption

The 2.4 - 2.483 GHz, 5.150-5.350 GHz and 5.470-5.800 GHz are the designated fees – exempt radio frequency bands in Samoa. They do have restrictions on the amount of power they use. Other fees exempt radio spectrum may be designated by the OOTR and made known to the public. However all eligible users require license or general authorizations from the OOTR and their operations should be in conformity with the guidelines for the band. The users in these bands shall not claim protection from interference and shall not cause interference to other licensed users in other bands. This will explained in more details in the Policy Guideline 11.

Policy Guidelines 6: Short Range Devices

The short-range devices which are permitted for use in Samoa are those designed to operate over short ranges and at low power levels in accordance with ITU-R Recommendations and as well as other internationally recognised and industry-based standards. These devices shall have permission for terrestrial use only and shall operate on non-protection basis from other authorised services in the same or adjacent frequency bands and shall not cause harmful interference themselves. Examples of

these devices including, door and gates openers, alarms and movement detectors, close circuit television, remote controls etc.

Policy Guideline 7: Temporary Frequency Assignments

OOTR may authorise frequency assignments for radio communication systems on temporary basis and trial transmission on a new technology experiments. OOTR shall require the applicant to justify and demonstrate the viability of such trials and experiments before they are authorised to provide a service using that band for which permission is given for trials. The period of trial shall not exceed a period of three months and the results of the trial shall be made available to the OOTR. The OOTR may also authorise frequency assignments for temporary use provided the OOTR is satisfied with such application. The operator may then apply by writing to the Regulator requesting using the allocated frequency as a permanent assignment instead of temporary.

The OOTR may also authorise frequency assignments for temporary use for short term purposes and for major events such as international sporting event.

Policy Guideline 8: Frequency Assignment Monitoring

To ensure that the assigned frequencies are valued, used appropriately and brought into use in a timely manner, the OOTR shall use to the extent possible appropriate Spectrum Management and Monitoring systems/tools. In case of violation, the OOTR shall follow enforcement guidelines and license conditions, which shall include revocation of license and application of the penalty schedule as in Radio Regulations Policy.

Policy Guideline 9: Frequency License and Usage Fees

In accordance with the above considerations, the OOTR may review its fee structure from time to time. However in the occurrence of this, the OOTR may, as far as practicable, present justification for the review and give full notice to affected parties. All current fees are calculated based on Radio Spectrum Fees Regulations 2007.

Policy Guideline 10: Unlicensed and Illegal Use of Spectrum

The illegal use of the Spectrum will be subject to penalties under the Act.

Policy Guideline 11: Harmful Interference

Various applications of radio waves can interfere with each other and invalidate the benefits they offer if incorrectly designed or operated. To avoid such interference, each application requires some amount of radio frequency spectrum for exclusive use, unless special arrangements are made. These arrangements can include the preference of

operation using Primary and Secondary Services. This guideline specifies that Secondary User shall be responsible for any harmful interference that they cause due to their operations and will bear costs for the process to restore service to eliminate interference. The OOTR shall give this specification when issuing license for both Primary and Secondary System. In other words, all of the complexity of sharing is borne by the Secondary User. A spectrum-user may get permission to operate as a Secondary User from the Regulator, in which case the Regulator must establish rules that prevent harmful interference to the Primary System and these rules will be a part of the license condition. To protect the Primary System, secondary devices can either transmit at such low power that they never cause harmful interference to the primary, or they must transmit opportunistically when and only when they determine that transmissions will not cause harmful interference.

Definitions of - Primary and Secondary Services

Primary Services means those services that are given priority for services allocated in bands that are shared by more than one service;

Secondary Services means those services that cannot cause harmful interference or claim harmful interference from other services operating in Bands with shared services.

Where the Table indicates that a band is allocated to more than one service, either on a worldwide or regional basis, such services are listed in the following order:

- a) Services printed in upper case letters only (example: FIXED) are referred to as “primary” services.
- b) Services printed in normal characters or lower case letters (example: Mobile) are referred as “secondary” services.

It must be noted that the operation of primary services are prioritised. Operators of secondary services must ensure that no harmful interference is caused to any of the primary services. Furthermore, operators of secondary services cannot claim harmful interference from any of the primary services to which frequencies have been assigned or may be assigned to at a later date. Operators of secondary services may, however, claim protection from harmful interference caused by other secondary services.

Policy Guideline 12: Mobile Radio Trunked System

The whole point of using trunking system is to utilize efficiently the frequency spectrum, rather than assigning each user their own assigned frequency, multiple users can share

few frequencies. Any company operating a trunking system will be paying for the data frequency and all the frequencies used on the trunking system, the company deals with the end users. The end user should pay the company any cost of using the frequency. This cost should be subject to consultation initiated by the Company for the end users and OOTR. Company applying for Trunking system license should follow the following guidelines and procedures.

In addition to the standard application form, the applicant for a trunked radio system should provide the following information:

- (a) Explanation for the need of the system, what is the purpose and need for the system
- (b) Systems description, including technical and operational details.
- (c) Number of channels required initially and a growth plan for the system in terms of expected number of channels, number of mobile or portable units to be served at the end of each year for a three year period after start of operation of the system.
- (d) Implementation plans for the proposed system in terms of expected dates for start and completion of construction.
- (e) Expected quality of service in terms of average waiting time or some other suitable parameter based on user traffic description.
- (f) Information concerning existing systems authorized to the applicant in terms of number of channels, channel loading, area of operations and list of all end users and frequencies used (for existing system)
- (g) For all fees involving this service should referred to Fees Regulations 2007.

Applications will be processed on a first-come-first-served basis depending on the availability of channels in the area for the proposed service.

Policy Guideline 13 : 2.4 - 2.483 GHz, 5.150-5.350 GHz and 5.470-5.800 GHz

The OOTR created the Policy on the use of Broadband Wireless Access (BWA) which set out the operational requirements for operating in this frequency band. The BWA Policy was created to allow other users to operate low powered short range devices, in the frequency band on a licence-exempt basis, whilst protecting the high powered BWA operation of the Internet Service Providers (ISPs) in these bands. However, in line with the Government's aim to promote the expansion of a nationwide, all pervasive wireless access network for Internet access, the BWA Policy has been reviewed in accordance with international best practices and with the consultation of the telecommunications service providers and ISPs.

However, there shall be two categories of users, telecommunication service providers, including ISPs, operating at high power and other users including the general public operating at low power.

- (i) This band shall be used for deployment of FBWA and Nomadic BWA (NBWA) applications including Radio Local Area Network (RLAN);
- (ii) The operation of BWA applications including RLAN in this band shall be fee-exempt, with the following eligibility criteria:
 - Only licensed telecommunications service providers, including Internet Service Providers (ISPs), shall be allowed to operate in this band under high power conditions for point-to-multipoint, with maximum Effective Isotropic Radiated Power (EIRP) of 4 W (36 dBm), and point-to-point, with maximum EIRP of 200 W (53 dBm).
 - Other users shall operate in this band under low power conditions with maximum EIRP of 100 mW (20 dBm),
- (iii) For operation of non BWA applications, users shall operate in this band on a licence-exempt basis, under low power conditions with maximum EIRP of 100 mW (20 dBm);

Policy Guideline 14: 700MHz Band

The OOTR would seek to be technology neutral in the use of the Band but recognizes that technology neutrality does not necessarily imply service neutrality and wishes to have this band used for Wireless Broadband Applications.

The 700 MHz band is currently used for analog television broadcasting; this is also called UHF TV Channels. The Office of the Regulator will decide on a migration plan for any current users once the Band has been designated for other purposes. This is expected to improve the spectral efficiency.

Proposed 700MHz Band Plan

In the 700 MHz band, the OOTR has defined a National Band Plan which is described in more detail in the following sections.

1.1.1 Public Safety Bands 763 - 775 MHz and 793-805 MHz

In the Plan, a total of 24 MHz is designated for public safety use. This 24 MHz block of spectrum is separated in two blocks of 12+12 MHz. In addition, OOTR adopts a

technology neutral approach in order to provide maximum flexibility for operators to choose the best system to meet their market requirements.

1.1.2 **Commercial Mobile Bands** 698–763 MHz and 776-793 MHz

The allocation is for commercial services and digital TV. The OOTR objective is to address the increasing demand for wireless access capacity.

Licensing and Spectrum Fee

The OOTR will assign 700 MHz radio frequency for provision of BWA services to be used for public telecommunication and broadcasting services, on a national basis. The authorization to use the radio frequency will be determined by the OOTR weather through auction or any other method.. Spectrum fee would be in accordance with the spectrum fee regulations.

Technical Specifications

Operators using the 700 MHz band must adhere to and shall not exceed the maximum technical specifications identified below.

* Maximum Effective Radiated Power

- Base Station – 30dBW

- Fixed Mobile Station – 14.8dBW

- Portable – 4.8dBW

Policy Guideline 15: Frequency Planning and Allocation

The use made of the spectrum has been based on frequency allocation principles, as given in the Table of Frequency Allocations of the Radio Regulations. *Allocation* means the distribution of a frequency band to a service for the purpose of using it. Some allocations are worldwide, other are regional, i.e. uniform throughout a particular region. Samoa is in ITU Region 3 and some of its allocation could be the same or similar with most countries in Region 3. The National Allocation Table can only be modified by the OOTR and this would be done in consultation with stakeholders. The Allocation Table will be reviewed, at a minimum, every five years. In addition the OOTR will also consider the following aspects.

- a) The OOTR shall make an effort to open up any band within which interest has been indicated. However this will depend on:
 - i) Conformity with the national table of frequency allocations and recognition of the ITU of Frequency Allocation Table,

- ii) Ensuring that usage in the Band does not cause harmful interference to other services in the same or other bands.
- b) Consideration of all relevant spectrum management principles for frequency allocations/assignments.
- c) Accommodating as many users as possible in a particular band provided there is no degradation of services or interference.
- d) Consideration of current usage and exhaustion of allocated frequencies by any operator/company that requests additional frequencies in the same band where they already have assignments, such request shall only be considered and authorised after the applicants have demonstrated and justified full utilisation of the existing frequencies.
- e) In the circumstance that a licensed operator/company is hoarding radio spectrum / not utilising the radio spectrum intentionally or not using the spectrum in accordance with the stipulated frequency conditions, the OOTR shall withdraw the frequencies. Refer to Frequency Allocation Table in Appendix 1

6. Implementation of the Policy

After consultation on the Policy, the Office of the Regulator will produce the final documentation to be sent to the stakeholders who are using and intended to use the Spectrum. It is expected that the implementation of this policy should be a responsibility of all parties involved. In order to provide a high level of service to the telecommunication community in Samoa, co-operation is required from all sectors of the telecommunication community in order to efficiently use the spectrum and minimize potential harmful interference.

7.APPENDIX 1 – FREQUENCY TABLE ALLOCATION PRELIMINARY INFORMATION

2.1 Definitions

In the Spectrum Plan, unless the contrary intention appears, the following definitions apply:

“**Act**” means Samoa Telecommunication Act 2005

“**administration**” means any Government department or service responsible for discharging the obligations specified in the Constitution of the International Telecommunication Union, the Convention of the International Telecommunication Union and in the Administrative Regulations and any other related conventions which have been adopted into Samoa’s legislation;

“**aeronautical mobile-satellite service**” means a mobile-satellite service in which a mobile earth station is located on board an aircraft or a survival craft, a life boat or life craft;

“**aeronautical mobile service**” means a mobile service between an aeronautical station and aircraft station, or between aircraft stations in which a survival craft station may participate or in which an emergency position indicating radio beacon may also participate on designated distress and emergency frequencies;

“**aeronautical radionavigation service**” means a radionavigation service intended for the benefit and for the safe operation of aircraft;

“**amateur radio service**” means a radio communications service in which a station is used for the purpose of self-training, intercommunication and technical investigations carried out by amateurs, that is, by duly authorized persons who are interested in radio technique solely with a personal aim and without any pecuniary interest;

“**amateur-satellite service**” means a radio communications service using a space station on earth satellites for the same purposes as those of the amateur radio service;

“**broadcasting satellite service**” means a radio communications service in which signals transmitted or re-transmitted by space stations are intended for direct reception by the general public or a section of the general public;

“**broadcasting service**” means a content applications service in which content is transmitted by means of radio communications and intended for direct reception by the general public or a section of the general public;

“**coordinated universal time (UTC)**” means a time scale, based on the second (SI), as defined in ITU-R Recommendation² ITU-R TF. 460-4;

“**cellular mobile service**” means a mobile service between a cellular radio base station and cellular mobile access device;

“**emergency position indicating radio beacon**” means a radiolocation station, the emissions of which are intended to facilitate search and rescue operations;

“**earth exploration-satellite service**” means a radiocommunication service between earth stations and one or more space stations, which may include links between space stations, in which:

Information relating to the characteristics of the Earth and its natural phenomena, including data relating to the state of the environment, is obtained from active sensors or passive sensors on earth satellites, similar information is collected from air-borne or earth-based platforms, such information may be distributed to earth stations within the system concerned, platform interrogation may be included;

“**fixed-satellite service**” means a radiocommunications service between earth stations at a given position, and when one or more satellites are used, the given position may be a specified fixed point or any fixed point within a specified area and includes satellite-to-satellite links which may also be operated in the inter-satellite service and feeder links for other space services;

“**fixed service**” means a radiocommunications service between specified fixed points;

“**harmful interference**” means interference which endangers or seriously degrades, obstructs or repeatedly interrupts the functioning of a radionavigation service or one or more safety services operating in accordance with these Regulations;

“**inter-satellite service**” means a radiocommunications service providing links between artificial earth stations;

“**industrial, scientific and medical (ISM) Applications**” means operation of equipment or appliances designed to generate, and use locally, radiofrequency energy for industrial, scientific, medical, domestic or similar purposes, excluding applications in the field of telecommunications;

“**land mobile satellite service**” means a mobile satellite service in which mobile earth stations are located on land;

² ITU-R TF 460-4 - <http://www.cl.cam.ac.uk/~mgk25/volatile/ITU-R-TF.460-4.pdf>

“**maritime mobile service**” means a mobile service between a coast station and a ship station, or between ship stations, or between associated on-board stations and includes a survival craft station and emergency position indicating radio beacon stations;

“**maritime mobile-satellite service**” means a mobile-satellite service in which mobile earth stations are located on board vessels and includes a survival craft station and emergency position indicating radio beacon stations;

“**meteorological-satellite service**” means an earth exploration-satellite service for meteorological purposes;

“**mobile service**” means a radio communications service between a mobile station and land station, or between mobile stations;

“**mobile satellite service**” means a radio communications service between mobile earth stations and one or more space stations; or between space stations used by this service; or between mobile earth stations by means of one or more space stations. This service may also include feeder links necessary for its operation.

“**primary service**” means those services that are given priority for services allocated in bands that are shared by more than one service;

“**radio**” means a general term applied to the use of radio waves;

“**radio waves or Hertzian Waves**” means electromagnetic waves of frequencies arbitrarily lower than 3000 GHz, propagated in space without artificial guides;

“**radiocommunication**” means communication by means of radio waves;

“**radiocommunications services**” means any radio communications-based network service;

“**radiodetermination service**” means a radio communications service for the purpose of radio determination;

“**radiodetermination station**” means a station used for the purpose of radio determination;

“**radiolocation service**” means a radio determination service used for the purpose of radiolocation;

“**radionavigation service**” means a service for the purpose of navigation including the purpose of announcing obstruction warnings;

“**radio direction-finding**” means radio determination using the reception of radio waves for the purpose of determining the direction of a station or object;

“radio astronomy” means astronomy based on the reception of radio waves of cosmic origin;

“radio astronomy service” means a radio communication service involving the use of radio astronomy.

“safety service” means any radiocommunications service where the permanent or temporary, with the ability to meet emergency relief communications requirements for the safeguarding of human life and/or property ;

“secondary service” means those services that cannot cause harmful interference or claim harmful interference from other services operating in Bands with shared services.

“space service” means a radiocommunications service using a space station or any other stations located beyond, or intended to go beyond, or which has been beyond, the major portion of the Earth's atmosphere;

“space radiocommunication” means any radiocommunication involving the use of one or more space stations or the use of one or more reflecting satellites or other objects in space;

“space operation service” means a radiocommunication service concerned exclusively with the operation of spacecraft, in particular space tracking, space telemetry and space telecommand;

“standard frequency and time signal service” means a radiocommunication service for scientific, technical and other purposes, providing the transmission of specified frequencies, time signals, or both, of stated high precision, intended for general reception;

“standard frequency and time signal-satellite service” means a radiocommunication service using space stations on earth satellites for the same purpose as those of the standard frequency and time signal service. This service may also include feeder links necessary for its operation;

“space research service” means a radiocommunication service in which spacecraft or other objects in space are used for scientific or technological research purposes;

MF Band (300 - 3000 kHz)

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
285 – 325kHz	AERONAUTICAL RADIONAVIGATION MARITIME RADIO NAVIGATION	AERONAUTICAL RADIONAVIGATION		
325 - 405 kHz	AERONAUTICAL RADIONAVIGATION Aeronautical mobile			
405 - 415 kHz	RADIO NAVIGATION 5.76 Aeronautical mobile	RADIONAVIGATION		
415 - 495 kHz	MARITIME MOBILE 5.79 5.79A 5.81 5.82	MARITIME MOBILE		
495 - 505 kHz	MOBILE (distress and calling) 5.83			
535 -1 606.5 kHz	BROADCASTING	BROADCASTING	AM Audio Broadcasting	
1 606.5-1 800kHz	FIXED MOBILE RADIOLOCATION RADIONAVIGATION	FIXED MOBILE RADIOLOCATION RADIONAVIGATION		
1 800-2 000 kHz	AMATEUR FIXED MOBILE except aeronautical mobile RADIONAVIGATION Radiolocation 5.97	AMATEUR FIXED MOBILE except aeronautical mobile		
2 000-2 065 kHz	FIXED MOBILE	FIXED MOBILE		
2 065-2 107 kHz	MARITIME MOBILE 5.106	MARITIME MOBILE		

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
2 170-2 173.5 kHz	MARITIME MOBILE	MARITIME MOBILE		
2 173.5-2 190.5 kHz	MOBILE (distress and calling) 5.108 5.109 5.110 5.111	MOBILE	2182 kHz distress and calling	
2 190.5-2 194 kHz	MARITIME MOBILE	MARITIME MOBILE		
2 194-2 300 kHz	FIXED MOBILE	FIXED MOBILE		
2 300-2 495 kHz	FIXED MOBILE BROADCASTING 5.113	FIXED MOBILE		
2 495-2 501 kHz	STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz)	STANDARD FREQUENCY 2.5 MHz		
2 501-2 502 kHz	STANDARD FREQUENCY AND TIME SIGNAL Space Research	STANDARD FREQUENCY 2.5 MHz		
2 501-2 502 kHz	STANDARD FREQUENCY AND TIME SIGNAL Space Research	STANDARD FREQUENCY AND TIME SIGNAL Space Research		
2 502-2 505 kHz	STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL		
2 505-2 850 kHz	FIXED MOBILE	FIXED MOBILE		

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
2 850-3 025 kHz	AERONAUTICAL MOBILE (R) 5.111 5.115	AERONAUTICAL MOBILE (R)	Aeronautical Base and SAR (3023 kHz)	IRR Appendix 27
3 025-3 155 kHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Commercial aeronautical services	General User Radio Licence for Aircraft IRR Appendix 26
3 155-3 200 kHz	FIXED MOBILE except aeronautical mobile (R) 5.116	MOBILE except aeronautical mobile (R) Maritime mobile		Frequencies 3175khz,5375khz and 7305khz are assigned to limited coast stations,Apia
3 200-3 230 kHz	FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113 5.116			
3 230-3 400 kHz	FIXED MOBILE except aeronautical mobile BROADCASTING 5.113 5.116			
3 400-3 500 kHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		General User Radio Licence for Aircraft IRR Appendix 27
3 500-3 900 kHz	AMATEUR FIXED MOBILE	AMATEUR FIXED MOBILE		Guide for visiting Amateur Radio Operators
3 900-3 950 kHz	AERONAUTICAL MOBILE BROADCASTING	AERONAUTICAL MOBILE BROADCASTING		
3 950-4 000 kHz	FIXED BROADCASTING 5.126	FIXED BROADCASTING		

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
4 000-4 063 kHz	FIXED MARITIME MOBILE 5.127 5.126	FIXED MARITIME MOBILE		
4 063-4 438 kHz	MARITIME MOBILE 5.79A 5.109 5.110 5.130 5.131 5.132 5.129	MARITIME MOBILE		
4 438-4 650 kHz	FIXED MOBILE except aeronautical mobile	FIXED MOBILE		
4 650-4 700 kHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		General User Radio Licence for Aircraft IRR Appendix 27
4 700-4 750 kHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		General User Radio Licence for Aircraft IRR Appendix 26
4 750-4 850 kHz	FIXED BROADCASTING 5.113 Land mobile	FIXED Land Mobile		
4 850-4 995 kHz	FIXED LAND MOBILE BROADCASTING 5.113			
4 995-5 003 kHz	STANDARD FREQUENCY AND TIME SIGNAL (5 000 kHz)			
5 005-5 060 kHz	FIXED BROADCASTING 5.113			
5 060-5 250 kHz	FIXED Mobile except aeronautical mobile			
5 250-5 450 kHz	FIXED MOBILE except aeronautical mobile			
5 450-5 480 kHz	FIXED AERONAUTICAL MOBILE (OR)LAND MOBILE	AERONAUTICAL MOBILE (OR) LAND MOBILE		IRR Appendix 27

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
5 480-5 680 kHz	AERONAUTICAL MOBILE (R) 5.111 5.115	AERONAUTICAL MOBILE (R)		General User Radio Licence for Aircraft IRR Appendix 27
5 680-5 730 kHz	AERONAUTICAL MOBILE (OR) 5.111 5.115	AERONAUTICAL MOBILE (OR)		General User Radio Licence for Aircraft IRR Appendix 26
5 730-5 900 kHz	FIXED Mobile except aeronautical mobile(R)	Mobile except aeronautical mobile (R)		
5 950-6 200 kHz	BROADCASTING			
6 200-6 525 kHz	MARITIME MOBILE 5.109 5.110 5.130 5.132 5.137	MARITIME MOBILE Mobile		IRR Appendix 17
6 525-6 685 kHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		General User Radio Licence for Aircraft IRR Appendix 27
6 685-6 765 kHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		General User Radio Licence for Aircraft IRR Appendix 26
6 765-7 000 kHz	FIXED MOBILE except aeronautical mobile(R) 5.138 5.138A	FIXED Mobile		General User Radio Licence for SRDs RFS27: Telecomm and Telemetry
7 000-7 100 kHz	AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE		Guide for visiting Amateur Radio Operators

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
7 100-7 200 kHz	AMATEUR 5.141C 5.142	AMATEUR		Guide for visiting Amateur Radio Operators
7 200 74 50	BROADCASTING 5.134 5.143 5.143A 5.143B 5.143C 5.143D			
7 450-8 100 kHz	FIXED MOBILE except aeronautical mobile (R) 5.143E 5.144	FIXED Land Mobile		HF BAND PLAN for Land Mobile services
8 100-8 195 kHz	FIXED MARITIME MOBILE	FIXED MARITIME MOBILE		
8 195-8 815 kHz	MARITIME MOBILE 5.109 5.110 5.132 5.145 5.111	MARITIME MOBILE		IRR Appendix 17
8 815-8 965 kHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		General User Radio Licence for Aircraft IRR Appendix 27
8 965-9 040 kHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		General User Radio Licence for Aircraft IRR Appendix 26
9 040-9 400 kHz	FIXED	FIXED		
9 400-9 900kHz	BROADCASTING 5.134 5.146 5.147			
9 900-9 995 kHz	FIXED	FIXED		
9 995- 10. 005 Mhz	STANDARD FREQUENCY AND TIME SIGNAL Space research 5.111			

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
10.005-10.100 MHz	AERONAUTICAL MOBILE (R) 5.111	AERONAUTICAL MOBILE (R)		General User Radio Licence for Aircraft IRR Appendix 27
10.150-11.175 MHz	FIXED Mobile except aeronautical mobile	FIXED		
11.175-11.275 MHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		General User Radio Licence for Aircraft IRR Appendix 26
11.275-11.400 MHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		General User Radio Licence for Aircraft IRR Appendix 27
12.230-13.200 MHz	MARITIME MOBILE 5.109 5.110 5.132 5.145	MARITIME MOBILE	Maritime mobile ship to shore communications	IRR Appendix 17
13.200-13.260 MHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		General User Radio Licence for Aircraft IRR Appendix 26
13.260-13.360 MHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		General User Radio Licence for Aircraft IRR Appendix 27
14.000-14.350MHz	AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE		Guide for visiting Amateur Radio Operators

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
15.010-15.100 MHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		General User Radio Licence for Aircraft IRR Appendix 26
15.100-15.600MHz	BROADCASTING			
15.600-15,800MHz	BROADCASTING 5.134 5.146	Mobile		
15.800-16.360MHz	FIXED 5.153	FIXED		
16.360-17.410 MHz	MARITIME MOBILE 5.109 5.110 5.132 5.145	MARITIME MOBILE		IRR Appendix 17
17.900-17.970 MHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		General User Radio Licence for Aircraft IRR Appendix 27
17.970-18.030 MHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		General User Radio Licence for Aircraft IRR Appendix 26
18.068-18.168 MHz	AMATEUR AMATEUR-SATELLITE	AMATEUR		Guide for visiting Amateur Radio Operators
18.168-18.780MHz	FIXED Mobile except aeronautical mobile	Mobile		
18.780-18.900 MHz	MARITIME MOBILE	MARITIME MOBILE		IRR Appendix 17

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
19.680-19.800 MHz	MARITIME MOBILE 5.132	MARITIME MOBILE		IRR Appendix 17
20.010-21.000 MHz	FIXED Mobile	Mobile		
21.000-21.450 MHz	AMATEUR AMATEUR-SATELLITE	AMATEUR		Guide for visiting Amateur Radio Operators
21.924-22.000 MHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		General User Radio Licence for Aircraft IRR Appendix 27
22.000-22.855 MHz	MARITIME MOBILE 5.132	MARITIME MOBILE		
22.855-23.000 MHz	FIXED	FIXED		
24.000-24.890 MHz	FIXED LAND MOBILE	FIXED LAND MOBILE		
24.890-24.990 MHz	AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE		Guide for visiting Amateur Radio Operators
24.990-25.005 MHz	STANDARD FREQUENCY AND TIME SIGNAL(25 000 kHz)			
25.005-25.010 MHz	STANDARD FREQUENCY AND TIME SIGNAL Space research			
25.010-25.070 MHz	FIXED MOBILE except aeronautical mobile			
25.070-25.210 MHz	MARITIME MOBILE	MARITIME MOBILE		

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
25.210-25.550 MHz	FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile		
25.550-25.670 MHz	RADIO ASTRONOMY 5.149			
25 670-26 100 MHz	BROADCASTING	Broadcasting		
26.100-26.175 MHz	MARITIME MOBILE 5.132	MARITIME MOBILE		
26.175-27.500 MHz	FIXED MOBILE except aeronautical mobile 5.150	FIXED MOBILE except aeronautical mobile 5.150		
27.500-28.000 MHz	METEOROLOGICAL AIDS FIXED MOBILE	FIXED MOBILE		
28.000-29.700 MHz	AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE		
29.700-30.005 MHz	FIXED MOBILE	FIXED MOBILE		
44-47 MHz	FIXED MOBILE 5.162			
50-54 MHz	AMATEUR	AMATEUR		

VHF Band (30 - 300 MHz)

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
54-68MHz	FIXED MOBILE BROADCASTING	TV Broadcasting	Tv3 Band 1 Chn3 61 - 68	
68-74.8 MHz	FIXED MOBILE 5.149	FIXED MOBILE		General User Radio Licence for SRDs General User Radio Licence for Cordless Telephones RFS30: Cordless Telephones POLDOC General Licence
74.8-75.2 MHz	AERONAUTICAL RADIONAVIGATION 5.180	AERONAUTICAL RADIONAVIGATION		
75.2-75.4 MHz	FIXED MOBILE	FIXED MOBILE		
75.4-87MHz	FIXED MOBILE 5.149	FIXED MOBILE 5.149	Interference from American Samoa 82-87MHz	
88-108 MHz	BROADCASTING	BROADCASTING	Sound Broadcasting	

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
108-117.975 MHz	AERONAUTICAL RADIONAVIGATION 5.197A	AERONAUTICAL RADIONAVIGATION		
117.975-137 MHz	AERONAUTICAL MOBILE (R) 5.111 5.198 5.199 5.200 5.203	AERONAUTICAL MOBILE (R)		General User Radio Licence for Aircraft General User Radio Licence for Emergency Transmitters
138 - 144 MHz	FIXED MOBILE Space research (space-to-Earth)	MOBILE Broadcasting	Band III Chn 5A 137 - 144 TV 3	New frequency Band plan for fixed base and land mobile
144-146 MHz	AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE		Guide for visiting Amateur Radio Operators
146-148 MHz	AMATEUR FIXED MOBILE			
148.000-156MHz	FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.209 5.218 5.219	FIXED MOBILE	Land Mobile "EN" Band extensive nationwide use	
156.7625-156.8375 MHz	MARITIME MOBILE (distress and calling) 5.111 5.226	MARITIME MOBILE (distress and calling)		
156.8375-174 MHz	FIXED MOBILE 5.226	FIXED MOBILE 5.226		

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
158.0625-161.4875MHz	FIXED MOBILE	MOBILE	MS Band	
162.5875-174MHz	FIXED MOBILE 5.226	MOBILE	Land Mobile "EE" band Fixed "EE" band	
174-229.5 MHz	FIXED MOBILE BROADCASTING	BROADCASTING	VHF Television (Band III)	
230-251MHz	BROADCASTING	BROADCASTING	Additional vhf TV channels	

UHF Band (300-3000MHz)

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
273-312 MHz	FIXED MOBILE 5.254	FIXED MOBILE		
312-315 MHz	FIXED MOBILE Mobile-satellite (Earth-to-space) 5.254 5.255			
315-322 MHz	FIXED MOBILE 5.254			
322-328.6 MHz	FIXED MOBILE RADIO ASTRONOMY 5.149			
328.6-335.4 MHz	AERONAUTICAL RADIONAVIGATION 5.258			

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
335.4-387 MHz	FIXED MOBILE 5.254	FIXED MOBILE		
387-390 MHz	FIXED MOBILE Mobile-satellite (space-to-Earth) 5.208A 5.254 5.255			
390-399.9 MHz	FIXED MOBILE 5.254			
399.9-400.05 MHz	MOBILE-SATELLITE (Earth-to-space) 5.209 5.224A RADIONAVIGATION-SATELLITE 5.222 5.224B 5.260 5.220			
400.05-400.15 MHz	STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz) 5.261			
400.15-401 MHz	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208A 5.209 SPACE RESEARCH (space-to-Earth) 5.263 Space operation (space-to-Earth) 5.264	METEOROLOGICAL		
401-402 MHz	METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) EARTH EXPLORATIONSATELLITE			

	(Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile			
402-403 MHz	METEOROLOGICAL AIDS EARTH EXPLORATIONSATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile			
403-406 MHz	METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile			
406.1-410 MHz	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY 5.149	FIXED MOBILE	Analog Land Mobile Trunked dispatch "TD" Band Mobile Transmit 406.1-410 MHz Planned to become TD Mobile Transmit 410-412 MHz.Planned for TD Simplex and simplex fixed services412-414 MHz	RFS37: Studio to Transmitter Linking System
410-420 MHz	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-tospace) 5.268			
420-430 MHz	FIXED MOBILE except aeronautical mobile Radiolocation	FIXED MOBILE except aeronautical mobile		Discussion document Replanning the band 406.1- 449 MHz POLDOC Spectrum Band Plan 003: 400 -

				450 MHz Band Plan
430-432 MHz	RADIOLOCATION Amateur	RADIOLOCATION Amateur		
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
432-438 MHz	RADIOLOCATION Amateur Earth exploration-satellite (active) 5.279A 5.282			
440-450 MHz	FIXED MOBILE except aeronautical mobile Radiolocation 5.286	FIXED MOBILE except aeronautical mobile Radiolocation	Fixed "JL" band, providing migration spectrum for I band links. STLs accommodated in 444 - 445 MHz	POLDOC Spectrum Band Plan 003: 400 - 450 MHz Band Plan
450 - 458.3375MHz	FIXED MOBILE 5.209 5.286 5.286A		C Band Plan 455.312255 - 458.3375: MHz Land Mobile "C" Band base Transmit	VHF and UHF Mobile Service bands RFS: VHF/UHF Land Mobile Service (25 kHz channelling) RFS: VHF/UHF Land Mobile Service (12.5 kHz channelling)

				Licensing of Land Mobile Services
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
459-460 MHz	FIXED MOBILE 5.209 5.286A	FIXED	Band D 458.6625 - 460.0125 MHz Fixed “JB” and “JNB” Band Beta Transmit (53 x 25 kHz two frequency channels interleaved with 108 x 12.5 kHz two frequency channels). 460.025 - 461.425 MHz Fixed “JD” Band Alpha Transmit (28 x 50 kHz Channels) 461.425 - 461.475 MHz Fixed “JE” Band (1 x 50 kHz single frequency channel)	Fixed Service Bands VHF and UHF Mobile Service bands RFS: VHF/UHF Land Mobile Service (25 kHz channelling) RFS: VHF/UHF Land Mobile Service (12.5 kHz channelling)
458.3375-470 MHz	FIXED MOBILE Meteorological-Satellite (space-to-Earth) 5.287 5.289			
470 - 890 MHz	FIXED MOBILE BROADCASTING	BROADCASTING	Fixed “KK” Band 806-857mhz Band V UHF TV sound and video Reserve for Digital	

			TV 710-740.75 822-852.75 Personal radio service band 476MHz- 477.4MHz	
		FIXED MOBILE	870.015 - 890 MHz AMPS / DAMPS Cellular Band	
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
890-942 MHz	FIXED MOBILE BROADCASTING Radiolocation	FIXED MOBILE	890 - 915 MHz GSM Cellular Band Mobile TX	
			915 - 935 MHz Fixed "K" Band - Studio Transmitter Links New allocation to Aiga Fesilafai Radio	
942-960 MHz	FIXED MOBILE BROADCASTING	FIXED MOBILE	935 - 960 MHz GSM Cellular Band Base TX	
960-1 164 MHz	AERONAUTICAL RADIONAVIGATION 5.328			
1 164-1 215 MHz	AERONAUTICAL RADIONAVIGATION 5.328 RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.328A			
1 215-1 240 MHz	EARTH EXPLORATIONSATELLITE			

	(active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) 5.332			
1 240-1 300 MHz	EARTH EXPLORATIONSATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) Amateur 5.282 5.332 5.335A			
1 300-1 350 MHz	AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation 5.149 5.337A			
1 350-1 400 MHz	RADIOLOCATION 5.149 5.339 5.339A			
1 400-1 427 MHz	EARTH EXPLORATIONSATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341			
1 427-1 429 MHz	SPACE OPERATION (Earth- tospace) FIXED MOBILE except aeronautical mobile	FIXED	1427-1429.5 MHz Fixed "LL" Band for narrow band high	

	5.341		efficiency digital fixed links , alpha transmit 1429-1461.5 MHz Fixed “L” Band point to point linking Alpha Transmit	
1 429-1 452 MHz	FIXED MOBILE 5.341 5.343 5.339A			
1 452-1 492 MHz	FIXED MOBILE BROADCASTING 5.345 BROADCASTING SATELLITE 5.345 5.347A 5.341	FIXED	Fixed “L” Band point to point linking Alpha Transmit (continued)	
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
1 492-1 518 MHz	FIXED MOBILE 5.341	FIXED	Fixed “L” Band Beta Transmit	
1 518-1 525 MHz	FIXED MOBILE MOBILE SATELLITE (space to Earth) 5.348 5.348A 5.348B 5.348C 5.341	FIXED		
1 525-1 530 MHz	SPACE OPERATION (space-to- Earth) FIXED MOBILE-SATELLITE (space-to- Earth) 5.347A 5.351A Earth exploration-satellite Mobile 5.341 5.351 5.354	MOBILE-SATELLITE (space-to-Earth)		
1 530-1 535 MHz	SPACE OPERATION (space-to- Earth) MOBILE-SATELLITE (space-to- Earth)) 5.347A 5.351A 5.353A	MOBILE-SATELLITE (space-to- Earth)		

	Earth exploration-satellite Fixed Mobile 5.341 5.351 5.354			
1 535-1 559 MHz	MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A 5.341 5.351 5.353A 5.354 5.356 5.357 5.357A			
1 559-1 610 MHz	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space to space) 5.328B 5.329A 5.341			
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
1 610-1 610.6 MHz	MOBILE – SATELLITE (Earth-to-Space) 5.351A AERONAUTICAL RADIONAVIGATION Radiodetermination-satellite (Earth to-Space) 5.341 5.364 5.366 5.367 5.368 5.372			
1 610.6-1 613.8 MHz	MOBILE-SATELLITE (Earth-To-Space RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION Radiodetermination-satellite (Earthto-Space) 5.149 5.341 5.364 5.366 5.367 5.368			
1 613.8-1 626.5 MHz	MOBILE-SATELLITE (Earth-to-Space) 5.351A AERONAUTICAL			

	RADIONAVIGATION Mobile-Satellite (Space-to-Earth) Radiodetermination-satellite (Earthto-Space) 5.341 5.364 5.365 5.366 5.367 5.368 5.372			
1 626.5-1 660 MHz	MOBILE-SATELLITE (Earth-to-Space) 5.351A 5.341 5.351 5.353A 5.354 5.357A 5.374 5.375 5.376			
1 660-1 660.5 MHz	MOBILE-SATELLITE (Earth-tospace) 5.351A RADIO ASTRONOMY 5.149 5.341 5.379 5.379A			
1 660.5-1 668 MHz	RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379A			
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
1 668-1 668.4 GHz	MOBILE-SATELLITE (Earth-tospace) 5.348C 5.379B 5.379C RADIO ASTRONOMY SPACE RESEARCH (Passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379 5.379A 5.379D			
1 668.4-1 670 MHz	METEOROLOGICAL AIDS FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-tospace) 5.348C 5.379B 5.379C			

	RADIO ASTRONOMY 5.149 5.341 5.379D 5.379E			
1 670-1 675 MHz	METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE 5.380 MOBILE-SATELLITE (Earth- tospace) 5.348C 5.379B 5.341 5.379D 5.379E 5.380A			
1 675-1 690 MHz	METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.341			
1 690 - 1 700 MHz	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) 5.289 5.341			
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
1 700-1 710 MHz	FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.289 5.341			
1 710-1 930 MHz	FIXED MOBILE 5.380 5.384A 5.388A 5.149 5.341 5.385 5.388			
1 930-1 970 MHz	FIXED MOBILE 5.388A 5.388	FIXED MOBILE		

1 970-1 980 MHz	FIXED MOBILE 5.388A 5.388	FIXED MOBILE		
1 980-2 010 MHz	FIXED MOBILE MOBILE-SATELLITE (Earth- tospace) 5.351A 5.388 5.389A 5.389B S5.389F	FIXED MOBILE		
2010-2 025 MHz	FIXED MOBILE 5.388A 5.388	FIXED MOBILE		
2 025-2 110 MHz	SPACE OPERATION (Earth- tospace) (space-to-space) EARTH EXPLORATIONSATELLITE (Earth-to-space) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (Earth-to-space) (space-to-space) 5.392	FIXED MOBILE		
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
2 110-2 120 MHz	FIXED MOBILE 5.388A SPACE RESEARCH (deep space) (Earth-to-space) 5.388	FIXED MOBILE		
2 120-2 160 MHz	FIXED MOBILE 5.388A 5.388	FIXED MOBILE		
2 160-2 170 MHz	FIXED	FIXED		

	MOBILE 5.388A 5.388	MOBILE		
2 170-2 200 MHz	FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A 5.388 5.389A	FIXED MOBILE		
2 200-2 290 MHz	SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATIONSATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (space-to-Earth) (space-to-space) 5.392	FIXED MOBILE		
2 290-2 300 MHz	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-to-Earth)			
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
2 300-2 450 MHz	FIXED MOBILE RADIOLOCATION Amateur 5.150 5.282 5.396	FIXED MOBILE Amateur	2300 - 2400MHz Broadband Wireless 2400 - 2450MHz Amateur	
2 450-2 483.5 MHz	FIXED MOBILE RADIOLOCATION 5.150	FIXED MOBILE		

2 483.5-2 500 MHz	FIXED MOBILE MOBILE-SATELLITE (Space-to-Earth) RADIOLOCATION Radiodetermination-satellite (space to-Earth) 5.398 5.150 5.402	FIXED MOBILE		
2 500-2 520 MHz	FIXED 5.409 5.411 FIXED-SATELLITE (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (space-to-Earth) 5.351A 5.403 5.404 5.407 5.414 5.415A		<i>The band 2500 to 2690 MHz is reserved in Samoa for 4th Generation cellular mobile services. No new frequency assignments will be made in this band.(WiMAX)</i>	
2 520-2 535 MHz	FIXED S5.409 S5.411 FIXED-SATELLITE (space-to-Earth) S5.415 MOBILE except aeronautical mobile S5.384A BROADCASTING-SATELLITE S5.413 S5.416 S5.403 S5.415A	FIXED		
2 535-2 655 MHz	FIXED S5.409 S5.411 MOBILE except aeronautical mobile S5.384A BROADCASTING-SATELLITE S5.413 S5.416 S5.339 S5.418 S5.418A S5.418B S5.418C	FIXED Broadcasting	2500 - 2690 MHz “O” Band Itinerant fixed link for Television outside broadcast operations (Worship Centre)	
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
2 655-2 670 MHz	FIXED S5.409 S5.411 FIXED-SATELLITE (Earth-to-space)	FIXED	Spectrum identified for possible	

	S5.415 MOBILE except aeronautical mobile S5.384A BROADCASTING- SATELLITE S5.413 S5.416 Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive) S5.149 S5.420		expansion of 4th Generation Cellular services.	
2 670-2 690 MHz	FIXED S5.409 S5.411 FIXED-SATELLITE (Earth-to-space) S5.415 MOBILE except aeronautical mobile S5.384A MOBILE-SATELLITE (Earth-to-space) Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive) S5.149 S5.419 S5.420 S5.420A	FIXED		
2 690-2 700 MHz	EARTH EXPLORATIONSATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340			
2 700-2 900 MHz	AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation 5.423	AERONAUTICAL RADIONAVIGATION	2700-2900 Fixed "OX" band Itinerant fixed linking for Television outside broadcast operations PIB 37 Linking for Television Outside broadcast	

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
2 900-3 100 MHz	RADIOLOCATION 5.424A RADIONAVIGATION 5.426 5.425 5.427	RADIONAVIGATION RADIOLOCATION		
3 100-3 300 MHz	RADIOLOCATION Earth exploration-satellite (active) Space research (active)	RADIOLOCATION		
3 300-3 400 MHz	RADIOLOCATION Amateur 5.149	Amateur		
3 400-3 500 MHz	FIXED FIXED-SATELLITE (space-to-Earth) Amateur Mobile Radiolocation 5.433 5.282		3400 - 3800MHz Reserved for Wireless Broadband Spectrum	Wireless Broadband Spectrum in Samoa
3 500-3 700 MHz	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile Radiolocation 5.433	FIXED-SATELLITE Space-to-Earth)	3600 - 4200 MHz Fixed 'P' band - usage must be co- ordinated with C' band Satellite services.	
3 700-4 200 MHz	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	FIXED FIXED-SATELLITE (space-to- Earth)		
4 200-4 400 MHz	AERONAUTICAL RADIONAVIGATION 5.438 5.440	AERONAUTICAL RADIONAVIGATION		

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
4 400-4 500 MHz	FIXED MOBILE	FIXED		
4 500-4 800 MHz	FIXED FIXED-SATELLITE (space-to-Earth) 5.441 MOBILE			
4 800-4 990 MHz	FIXED MOBILE 5.442 Radio astronomy 5.149 5.339			
4 990-5 000 MHz	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY Space research (passive) 5.149			
5 000-5 010 MHz	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-to-space) 5.367			
5 010-5 030 MHz	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-to-space) (space-to-space) 5.328B 5.443B 5.367			

Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
5 030-5 150 MHz	AERONAUTICAL RADIONAVIGATION 5.367 5.444 5.444A			
5 150-5 250 MHz	AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) 5.447A MOBILE except aeronautical mobile 5.446A 5.446B 5.446 5.447B 5.447C	AERONAUTICAL RADIO NAVIGATION MOBILE except aeronautical mobile		
5 250-5 255 MHz	EARTH EXPLORATIONSATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.447D MOBILE except aeronautical mobile 5.446A 5.447F 5.448A			
5 255- 5 350 MHz	EARTH EXPLORATIONSATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) MOBILE except aeronautical mobile 5.446A 5.447F 5.448A			
5 350-5 460 MHz	EARTH EXPLORATIONSATELLITE (active) 5.448B SPACE RESEARCH (active) 5.448C	AERONAUTICAL RADIO NAVIGATION		

	AERONAUTICAL RADIONAVIGATION 5.449 RADIOLOCATION 5.448D			
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
5 460-5 470 MHz	RADIONAVIGATION 5.449 EARTH EXPLORATIONSATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.448D 5.448B			
5 470-5 570 MHz	MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A EARTH EXPLORATIONSATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.450B 5.448B 5.452	MARITIME RADIO NAVIGATION Radiolocation		
5 570-5 650 MHz	MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B 5.452	Radiolocation		
5 650-5 725 MHz	RADIOLOCATION MOBILE except aeronautical mobile 5.446A 5.450A Amateur Space research (deep space)	RADIOLOCATION Amateur		

	5.282			
5 725-5 830 MHz	RADIOLOCATION Amateur 5.150	Amateur		
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
5 830-5 850 MHz	RADIOLOCATION Amateur Amateur-satellite (space-to-Earth) 5.150			
5 850-5 925 MHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Radiolocation 5.150			
5 925-6 700 MHz	FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B MOBILE 5.149 5.440 5.458	FIXED FIXED-SATELLITE (Earth-to space)	5925 - 6420 MHz Fixed "R" band 5925 - 6700 MHz Fixed Satellite Service "C" band uplinks (INMARSAT) 6420 - 7100 MHz Fixed "T" band	
6 700-7 075 MHz	FIXED FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441 MOBILE 5.458 5.458A 5.458B 5.458C			
7 075-7 250 MHz	FIXED	FIXED		

	MOBILE 5.458 5.458 5.459 5.460			
7250-7300 MHz	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE S5.461	FIXED		
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
7300-7450 MHz	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile S5.461	FIXED	Band utilised for point to point linking and itinerant TV outside broadcasting.	
7450-7550 MHz	FIXED FIXED-SATELLITE (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile S5.461A	FIXED		
7750-7850 MHz	FIXED MOBILE except aeronautical mobile METEOROLOGICAL-SATELLITE (space-to-earth) S5.461B	FIXED	7730 - 8290 MHz Fixed "W" Band for point to point linking	
7 850-7 900 MHz	FIXED MOBILE except aeronautical mobile			
7 900-8 025 MHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.461			
8 175-8 215 MHz	EARTH			

	EXPLORATIONSATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) MOBILE 5.463 5.462A			
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
8 215-8 400 MHz	EARTH EXPLORATIONSATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.463 5.462A	FIXED	8290 - 8500 MHz Fixed "Y" band utilised for point to point linking	
8 400-8 500 MHz	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (Space-to- Earth)5.465	FIXED	8290 - 8500 MHz Fixed "Y" band utilised for point to point linking	
8 500-8 550 MHz	RADIOLOCATION	RADIOLOCATION		
8 550-8 650 MHz	EARTH EXPLORATIONSATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.469A			
10-10.45 GHz	FIXED MOBILE RADIOLOCATION	RADIOLOCATION Amateur		

	Amateur 5.479			
10.5-10.55 GHz	FIXED MOBILE RADIOLOCATION	FIXED		
10.55-10.6 GHz	FIXED MOBILE except aeronautical mobile Radiolocation	FIXED	Fixed "H" Band used for point to point linking	
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
10.6-10.68 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation 5.149 5.482	FIXED	Fixed "Z" Band used for point to point linking	
10.68-10.7 GHz	EARTH EXPLORATIONSATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340			
10.7-11.7 GHz	FIXED FIXED-SATELLITE (space-to-Earth) 5.441 5.484A MOBILE except aeronautical mobile	FIXED		
11.7-12.2 GHz	FIXED	BROADCASTING		

	MOBILE except aeronautical mobile BROADCASTING BROADCASTING-SATELLITE 5.487 5.487A 5.492	SATELLITE		
12.2-12.5 GHz	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile BROADCASTING 5.484A 5.487			
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
12.5-12.75 GHz	FIXED FIXED-SATELLITE (space-to-Earth) 5.484A MOBILE except aeronautical mobile BROADCASTING-SATELLITE 5.493	BROADCASTING SATELLITE FIXED-SATELLITE (space- to- Earth)		
12.75-13.25 GHz	FIXED FIXED-SATELLITE (Earth-to-space) 5.441 MOBILE Space research (deep space) (space-to- Earth)	FIXED	Fixed "X" Band point to point linking including inter-cell site linking	
13.25-13.4 GHz	EARTH EXPLORATIONSATELLITE (active) AERONAUTICAL RADIONAVIGATION 5.497 SPACE RESEARCH (active)			

	5.498A			
13.4-13.75 GHz	EARTH EXPLORATIONSATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.501A Standard frequency and time signal satellite (Earth-to-space) 5.501B			
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
14.4 – 14.7 GHz	FIXED FIXED SATELLITE (Earth to space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile satellite (earth to space) 5.506A 5.509A Space Research (space to earth) 5.504A	FIXED-SATELLITE (Earth- tospace) (Continued)		
14.47 – 14.5 GHz	FIXED FIXED SATELLITE (Earth to space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile satellite (earth to space) 5.504B 5.506A 5.509A			
	Radio Astronomy 5.149 5.504A			

14.5 – 14.8 GHz	FIXED FIXED SATELLITE (Earth to space) 5.10 MOBILE Space Research	FIXED	Fixed "G" Band for point to point linking	
14.8 – 15.35 GHz	FIXED MOBILE Space Research 5.229	FIXED		
17.7-18.1 GHz	FIXED FIXED-SATELLITE (space-to- Earth) 5.484A 5.516B (Earth-to-space) 5.520 MOBILE 5.519 5.521	FIXED	17.7-19.7 GHz Fixed "18G" Band used for point to point linking, especially for inter cell site linking	
18.6-18.8 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-to-Earth) 5.522B MOBILE except aeronautical mobile Space research (passive) 5.522A	FIXED	Fixed "18G" Band used for point to point linking especially for inter cell site linking	
18.8-19.3 GHz	FIXED FIXED-SATELLITE (space-to- Earth) 5.516B 5.523A MOBILE	FIXED FIXED-SATELLITE (space- to- Earth)		
19.3-19.7 GHz	FIXED FIXED-SATELLITE (Space-to-Earth)	FIXED		

	(Earth-to-Space) 5.523B 5.523C 5.523D 5.523E MOBILE			
19.7-20.1 GHz	FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B Mobile-satellite (space-to-Earth)	FIXED-SATELLITE (space-to-Earth)		
20.1-20.2 GHz	FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B			
	MOBILE-SATELLITE (space-to-Earth) 5.525 5.526 5.527 5.528			
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
20.2-21.2 GHz	FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signalsatellite (space-to-Earth)			
21.2-21.4 GHz	EARTH EXPLORATIONSATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	FIXED	21.2-23.6 GHz Fixed “23G” Band used for point to point linking	
21.4-22.0 GHz	FIXED MOBILE BROADCASTING-SATELLITE 5.347A 5.30 5.531			

22.0 -22.21 GHz	FIXED MOBILE except aeronautical mobile 5.149			
22.21-22.5 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.532			
22.5-22.55 GHz	FIXED MOBILE			
22.55-23.55 GHz	FIXED INTER-SATELLITE MOBILE 5.149			
23.55-23.6 GHz	FIXED MOBILE			
23.6-24 GHz	EARTH EXPLORATIONSATELLITE (passive) RADIO ASTRONOMY			
	SPACE RESEARCH (passive) 5.340			
24-24.05 GHz	AMATEUR AMATEUR-SATELLITE 5.150	AMATEUR AMATEUR-SATELLITE	Amateur usage SRD, spread spectrum devices and ISM usage	
24.05-24.25 GHz	RADIOLOCATION Amateur Earth exploration-satellite (active) 5.150	RADIOLOCATION Amateur	Amateur usage (including beacons) 24.0-24.25 GHz SRD unrestricted usage and ISM	

			usage	
24.25-24.45 GHz	RADIONAVIGATION FIXED MOBILE	RADIONAVIGATION FIXED MOBILE		
24.45-24.65 GHz	FIXED INTER-SATELLITE MOBILE RADIONAVIGATION 5.533			
24.65-24.75 GHz	FIXED INTER-SATELLITE MOBILE 5.533	FIXED MOBILE		
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
24.75-25.25 GHz	FIXED FIXED-SATELLITE (Earth-to-space) 5.535 MOBILE			
25.25-25.5 GHz	FIXED INTER-SATELLITE 5.536 MOBILE Standard frequency and time signalsatellite (Earth-to-space)			
37-39.5 GHz	FIXED MOBILE	FIXED	Fixed “38G” Band	

	SPACE RESEARCH (space-to-Earth) 5.547		37.058 - 38.178 GHz Alpha Transmit 38.248 - 39.438 GHz Beta Transmit Extensive use for inter cell site linking	
39.5-40 GHz	FIXED FIXED-SATELLITE (space-to-Earth) 5.516B MOBILE MOBILE-SATELLITE (space-to-Earth) Earth exploration-satellite (space-to-Earth) 5.547			
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
40-40.5 GHz	EARTH EXPLORATIONSATELLITE (Earth-to-space) FIXED FIXED-SATELLITE (space-to-Earth) 5.516B MOBILE MOBILE-SATELLITE (space-to-Earth) SPACE RESEARCH (Earth-to-space) SPACE RESEARCH (Earth-to-space) Earth exploration-satellite (space-to-			

	Earth			
40.5-41 GHz	FIXED FIXED-SATELLITE (space-to-Earth) BROADCASTING BROADCASTING-SATELLITE Mobile 5.547			
41-42.5 GHz	FIXED FIXED-SATELLITE (space to Earth) 5.516B BROADCASTING BROADCASTING-SATELLITE Mobile 5.547 5.551H 5.551I			
42.5-43.5 GHz	FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE except aeronautical mobile RADIO ASTRONOMY 5.149 5.547			
Frequency Range	ITU Allocation for Region 3	Samoa Allocation	Summary	Reference
50.4-51.4 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Mobile-satellite (Earth-to-space)	FIXED	50.5-51.15 GHz Fixed "50G" Band	
51.4-52.6 GHz	FIXED MOBILE 5.547 5.556			
57-58.2 GHz	EARTH EXPLORATIONSATELLITE			

	(passive) FIXED 5.557A INTER-SATELLITE.5.556A MOBILE 5.558 SPACE RESEARCH (passive) 5.547			
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