## Public Service Broadcasting Licence issued by

# THE COMMISSION FOR COMMUNICATIONS REGULATION

To

# Raidió Teilifís Éireann

For Analogue Terrestrial Television Services

Document Number: 12/13a

## Public service broadcasting licence issued by the The Commission For Communications Regulation

## <u>to</u> <u>Raidió Teilifís Éireann</u>

The Commission for Communications Regulation, in exercise of the powers conferred on it by section 121 (1) of the Broadcasting Act 2009 (No. 18 of 2009), hereby issues to Raidió Teilifis Éireann a licence for the purpose of providing Analogue Terrestrial Television Services as follows, subject to the conditions set out hereunder:

#### Licensed

(1) For the purpose of carrying out the functions authorised by the Broadcasting Act
 2009, the Licensee is licensed to:

- (a) maintain and operate the broadcasting stations recorded in the Schedule in Part II of this Licence and in accordance with the provisions set out therein and not otherwise, except with the written consent of the Commission,
- (b) establish, maintain and operate additional broadcasting stations at such places, and in accordance with such provisions, as the Commission may from time to time approve in writing, and any such approved additional broadcasting stations shall thereupon be deemed to be added to the Schedule in Part II of this Licence,
- (c) acquire, install and operate such apparatus for wireless telegraphy as is incidental to the operation of the broadcasting stations mentioned at (a) and (b) as the Commission may approve in writing.

(2) Nothing in this Licence shall serve to preclude the Licensee from entering into any contracts, agreements and arrangements incidental or conducive to carrying out the activities listed in (1) above.

- 2. The Licensee shall not operate any broadcasting station without the Commission's specific approval in writing in respect of: -
  - (i) characteristic frequency,
  - (ii) name and geographical co-ordinates of broadcasting stations,
  - (iii) effective radiated power,
  - (iv) antenna characteristics, and
  - (v) antenna height.
- 3. The Licensee shall comply with the directions given by the Commission in writing in relation to tolerance on characteristic frequency and radiation of spurious emissions or in relation, in any other respect, to the technical operation of the broadcasting stations and apparatus for wireless telegraphy mentioned in the preceding paragraphs.
- 4. The establishment and operation of television broadcasting stations shall be in accordance with the conditions relating to the establishment and operation of television broadcasting stations set out in Part I of this Licence.
- 5. If any harmful interference (whether avoidable or not) is caused to any radionavigation service or other safety services or a radiocommunications service operating in accordance with the applicable European Community or national regulations which was in existence prior to the broadcasting station or apparatus for wireless telegraphy causing the harmful interference, the Licensee shall, if the Commission considers it reasonable so to request, pay to the relevant party the amount of the expenses incurred in providing protection for such a service against the harmful interference, or in substituting for such a service a service of the same or a different description in another place and providing for the substituted service such protection against the harmful interference as the Commission considers necessary or expedient.
- 6. The Licensee shall comply with any radiation emission standards adopted and published by the International Commission for Non-Ionising Radiation Protection (ICNIRP) or its successors from time to time; any radiation emission standards of the European Committee

for Electrotechnical Standards and any other radiation emission standards specified by national and EC law. The Licensee shall ensure that non-ionising radiation emissions from apparatus operated by the Licensee are within the limits specified by the guidelines published by ICNIRP. The Licensee shall ensure that apparatus operated by the Licensee is not installed or operated at a location in such a manner as to cause the aggregate of non-ionising radiation emissions to exceed the limits specified by the guidelines published by ICNIRP.

- 7. The broadcasting stations which are the subject of this Licence shall, at all times, be operated by persons properly authorised by the Licensee and all reasonable steps shall be taken to ensure that access to the broadcasting stations cannot be obtained by unauthorised persons at any time.
- 8. The Commission shall not be liable for any costs incurred by the Licensee in averting any harmful interference whatsoever.

#### Sanctions for Breach of Licence

- 9. (1) Where the Commission finds that the Licensee does not comply with one or more of the conditions of the Licence conferred on it, the Commission shall notify the Licensee of those findings and give the Licensee a reasonable opportunity to state its views or remedy any breaches within:
  - (a) one month after notification,

(b) a shorter period agreed by the Licensee or stipulated by the Commission in the case of repeated breaches, or

(c) a longer period decided by the Commission.

(2) The Commission may publish, in such manner as it thinks fit, any notification given by it under this Condition subject to the protection of the confidentiality of any information which the Commission considers confidential.

10. Where, at the end of the period referred to in Condition 9 (1), the Commission is of the opinion that the Licensee has not complied with the condition, it shall take appropriate and proportionate measures aimed at ensuring compliance.

#### Licence revocation

 (1) The Commission may, in cases of serious and repeated breaches of the conditions of the licence revoke, suspend or withdraw the licence, where measures aimed at ensuring compliance as referred to in Condition 10 have failed.

(2) Prior to any such revocation, suspension or withdrawal, the Commission shall serve notice on the Licensee specifying the reason therefore and shall give the Licensee a reasonable opportunity to make representations about the proposed revocation, suspension or withdrawal.

#### **Prevention of Interference**

- 12. (1) If the Commission
  - (a) is satisfied that the use of the system or any part thereof is causing or represents an immediate and serious threat to public safety, public security or public health, or will create serious economic or operational problems for other providers or users of electronic communications networks or services, and
  - (b) serves on the Licensee an interim notice requiring that the use of such system or part as may be specified in such notice cease forthwith, or on or before such date and time as may be so specified;

The Licensee shall cease to use the system or part, unless and until such notice has been withdrawn by the Commission.

(2) Following the issuing of an interim notice, the Commission shall give the Licensee a reasonable opportunity to make representations about the interim notice and to propose any remedies.

(3) The Commission, having taken into account any representations or proposed remedies made under paragraph (2) may confirm, amend or withdraw the measure.

#### **Restrictions on the Licensee**

- 13. The Licensee shall not, without the prior consent in writing of the Commission (such consent not to be unreasonably withheld), assign the Licence (or lease, or let the Licence). Any consent to transfer granted by the Commission under this paragraph, may be subject to such further conditions as the Commission considers appropriate in the circumstances.
- 14. The provisions of the International Telecommunication Convention, and of any international convention or international agreement relating to the use of frequencies to which the State may be, or may become, a party during the continuance of this Licence, shall be complied with.

#### **Licence Duration**

15. This Licence shall operate from 29 February 2012 and, without prejudice to the right of the Commission to terminate or suspend the Licence in the case of non-compliance with the provisions of the Licence by the Licensee, shall be valid and continue in force until 24 October 2012 and shall then expire.

#### Definitions

- 16. In this Licence:
  - (a) a reference to a Schedule is to a Schedule to this Licence, unless it is indicated that reference to some enactment is intended;
  - (b) a reference to a paragraph or subparagraph is to the paragraph or subparagraph of the provision in which the reference occurs, unless it is indicated that reference to some other provision is intended;
  - (c) a reference to an enactment shall be construed as a reference to the enactment as amended or extended by or under any subsequent enactment.

17. (1) In this Licence, except where the subject or context requires otherwise, the following expressions have the meanings hereby assigned to them, that is to say: -

"broadcasting station" has the same meaning as in the Wireless Telegraphy Acts, 1926 to 2009;

"Commission" means the Commission for Communications Regulation established by Part 2 of the Communications Regulation Act, 2002;

"harmful interference" means interference which endangers the functioning of a radionavigation service or of other safety services or which otherwise seriously degrades, obstructs or repeatedly interrupts a radiocommunications service operating in accordance with the applicable European Community or national regulations;

"International Telecommunication Convention" means the International Telecommunication Convention signed at Nairobi on the 6<sup>th</sup> day of November 1982 and the Radio Regulations and additional Radio Regulations in force thereunder, and includes any Convention and Regulations which may from time to time be in force in substitution therefor, or in amendment thereof;

"Licensee" means the holder of the Licence, in this case Raidió Teilifís Éireann;

"wireless telegraphy" and "apparatus for wireless telegraphy" have the same meaning as in the Wireless Telegraphy Acts, 1926 to 2009.

(2) A word or expression which is used in this Licence and which is also used in the European Communities (Electronic Communications Networks and Services)(Framework) Regulations 2011 has, unless the context otherwise requires, the same meaning in this Licence that it has in the European Communities (Electronic Communications Networks and Services)(Framework) Regulations 2011

(3) A word or expression which is used in this Licence and which is also used in the European Communities (Electronic Communications Networks and

Services)(Authorisation) Regulations 2011 has, unless the context otherwise requires, the same meaning in this Licence that it has in the European Communities (Electronic Communications Networks and Services)(Authorisation) Regulations 2011

GIVEN under the official seal of the Commission for Communications Regulation this 27 day of February 2012

Amou

Alex Chisholm Chairperson

## PART I

## CONDITIONS RELATING TO THE ESTABLISHMENT AND OPERATION OF TELEVISION BROADCASTING STATIONS

#### 1. <u>PURPOSE</u>

This document specifies the general conditions attached to a licence for the establishment maintenance and operation of broadcasting stations. These conditions are set out in accordance with Section 121 (1) of the Broadcasting Act 2009.

#### 2. <u>GENERAL</u>

- **2.1** These conditions detail the characteristics of the equipment required for the purpose of frequency spectrum management and safety and do not include detailed equipment specifications.
- **2.2** Evidence of type approval of equipment is not required by the Commission<sup>1</sup>. Instead a procedure of station certification by a suitably qualified person, will apply.
- **2.3** Procedures for the modification of or addition of a station assignment are also specified in this document.
- **2.4** The technical parameters specified in this document are in accordance with values specified in the Radio Regulations (2008), by ITU-R Study Group 11 (Television), and the final acts of the Geneva 2006 Agreement.
- **2.5** The conditions specified in this document may be varied or added to from time to time by the Commission as required.
- **2.6** In cases of doubt regarding the interpretation of these conditions, the decision of the Commission will be final.

#### 3. DEFINITIONS AND GLOSSARY OF TERMS

#### **3.1 Radio Regulations**

Radio Regulations, Edition of 2008, as published by the International Telecommunications Union (ITU).

#### 3.2 Assignments

A radio frequency or radio frequency channel for which authorisation by the Commission for Communications Regulation has been granted for its use at a specified station with specified characteristics.

#### 3.3 Station

One or more transmitters or receivers or a combination of transmitters and receivers, including the associated equipment necessary, at one location for the purpose of carrying on a broadcasting service.

<sup>&</sup>lt;sup>1</sup> It is recommended that broadcasting transmitters comply with any appropriate European Telecommunications Standard.

#### 3.4 Stockholm 1961 Agreement

The Final Acts of the European VHF/UHF Broadcasting Conference, Stockholm 1961. An updated plan of assignments constitutes part of this Agreement.

#### 3.5 Geneva 2006 Agreement

The Final Acts of the Regional Radiocommunication Conference for planning of the digital terrestrial broadcasting service in parts of regions 1 and 3 in the frequency bands 174-230MHz and 470-862MHz.

#### **3.6** Effective Radiated Power (ERP) in a given direction.

The product of the power supplied to the antenna and its gain relative to a halfwave dipole in a given direction. This is usually expressed in decibels relative to one watt (dBW). In the case of analogue television broadcasting the ERP of the vision transmissions is the peak envelope power and for sound transmissions it is the unmodulated carrier power.

#### 3.7 Maximum Effective Radiated Power.

The maximum value of the effective radiated power in any direction.

#### **3.8** Effective Antenna Height (Eff.Ht.)

The height in meters above the average level of the ground between distances of 3 and 15km from the transmitter. This is calculated for each of 36 evenly spaced radials (10 degree separation) starting from true North<sup>2</sup>.

#### 3.9 Maximum Effective Antenna Height

The maximum value in meters for the effective antenna height in any one of the 36 directions referred to in 3.8.

#### 3.10 Omnidirectional Antenna

An antenna having a horizontal radiation pattern with variations of 2 dB or less over 360 degrees.

#### 3.11 Service Area

Locations where the field strength available (in the case of VHF and UHF services at the reference receiver height of 10 meters above ground) exceeds both the minimum wanted field strength and the protected field strength (PFS) values as derived from the assignments in the appropriate plans.

#### 3.12 Vertical Aperture

In relation to a VHF or UHF antenna system, the distance in wavelengths between the centres of the outermost radiating elements, plus one half wavelength, in the vertical plane.

#### 3.13 Commission

Commission for Communications Regulation

 $<sup>^2</sup>$  This can be calculated by the Commission using the National Grid Reference, consisting of one letter and six digits, for the transmitting station, provided the site height above sea level and the antenna height above ground level are supplied

#### 4. TRANSMITTER CONSTRUCTION

#### 4.1 General

The mechanical and electrical construction shall meet such requirements as can be reasonably set, taking the state of the art into account (see also section 6 'Safety and Weather Protection').

All controls, meters, indicators and terminals shall be clearly labelled. Details of the power supply from which the equipment is intended to operate shall be clearly indicated. The equipment should normally consist of one complete unit.

#### 4.2 Controls

Controls which, when wrongly adjusted, increase the risk of causing interference or of improper functioning of the transmitter shall be immediately accessible to qualified personnel only.

#### 4.3 Manufacturer's Identification

The transmitter shall be provided with an indication showing the manufacturer's trademark, type designation and serial number. The indication shall be fitted on the outside of the transmitter, shall be clearly readable, non-removable and indelible.

#### 5. FACILITIES FOR TESTING TRANSMISSION INSTALLATION

Adequate and accurately calibrated test equipment shall be made available for nonradiative measurement of transmitter power, modulation characteristics and spurious emissions while the station is undergoing initial alignment and regular maintenance.

#### 6. <u>SAFETY AND WEATHER PROTECTION</u>

#### 6.1 General Safety

The station and its premises must comply with all relevant statutory safety regulations.

#### 6.2 Safety Controls

There shall be a single control to isolate power for the entire installation. If a form of auxiliary power (such as diesel generators or an uninterruptable power supply) is provided, then the same control should isolate these. The "on" position of such a devise must be clearly indicated.

#### 6.3 Safety Standards

The system must comply with

- the Safety Requirements for Radio Transmitting Equipment as per I.S./EN 60215 : 1989<sup>3</sup>
- any radiation emission standards adopted and published by the International Commission for Non-Ionising Radiation Protection (ICNIRP) or its successors from time to time;
- any radiation emission standards of the European Committee for Electrotechnical Standards and
- any other radiation emission standards specified by national and EC law.

<sup>&</sup>lt;sup>3</sup> This standard is available from the National Standards Authority of Ireland

The Licensee shall ensure that non-ionising radiation emissions from apparatus operated by the Licensee are within the limits specified by the guidelines published by ICNIRP. The Licensee shall ensure that apparatus operated by the Licensee is not installed or operated at a location in such a manner as to cause the aggregate of non-ionising radiation emissions to exceed the limits specified by the guidelines published by ICNIRP.

#### 6.4 Weather Protection

All apparatus and cables exposed to weather, corrosive atmosphere or other adverse conditions shall be so constructed or protected as may be necessary to prevent danger or interference to other services arising from such exposure.

#### 7. <u>SITE ENGINEERING</u>

#### 7.1 General

The practice of good site engineering is a necessary requirement to ensure good coverage, safety of personnel and minimum interference to other services. In addition, careful consideration is required for other services when operating from the same site or in close proximity to them. The Licensee shall ensure that all necessary precautions are undertaken to ensure good site engineering practise.

#### 7.2 Spurious Emissions

Careful consideration should be given to the levels of spurious emissions set out in the relevant subsection of section 8.

#### 8. TRANSMISSION CHARACTERISTICS FOR TELEVISION BROADCASTING

#### 8.1 Frequency Aspects

The equipment shall be designed to operate on the assigned frequency in the frequency Bands 174.0 to 222.0 MHz or 470.0 to 862.0 MHz only.

The frequency tolerance shall be:

- $\pm$  500 Hz, for transmitters for which the licence characteristics do not require the use of precision offset.
- $\pm$  1 Hz, for transmitters for which the licence characteristics require the use of precision offset.
- $\pm 10$  kHz, for stations of 0 dBW (vision peak envelope power) used to serve small isolated communities.

The transmit frequency shall be derived from a crystal oscillator. If use is made of a synthesiser and/or a phase locked loop system, the transmitter shall be inhibited when synchronisation is absent. The transmitter frequency adjustment control shall be accessible to qualified personnel only.

#### 8.2 Maximum Permitted Levels of Spurious Emissions

The maximum permitted level of spurious emission for a transmitting station shall be:

- at least 40 dB below the transmitter e.r.p. and shall not in any case exceed -46 dBW for a transmitter e.r.p. less than or equal 14dBW.
- at least 60dB below the transmitter e.r.p. and
  - 1) in the case of VHF transmitters shall not in any case exceed -30 dBW for transmitter e.r.p. above 14 dBW or
  - 2) in the case of UHF transmitters shall not in any case exceed -17 dBW for transmitter e.r.p. above 14 dBW.

#### 8.3 Class of Emission, Bandwidth, and Modulation Standards

#### 8.3.1 Designation of Emission and Maximum permitted Bandwidth

The total bandwidth of the radiated signal shall not exceed 8 MHz. The emissions shall comply with the following designations:

#### A) 7M25C9FNW where;

7M2	5=	necessary bandwidth	=	7.25 MHz
С	=	type of modulation	=	Vestigial sideband
9	=	Modulating signal	=	Composite
				analogue/digital signal
F	=	Information type	=	Television (video)
Ν	=	Colour		
W	=	Combination of frequ	ency-di	vision and time-division
		multiplex	2	

#### **B**) 750KF3EGN where;

750K	=	necessary bandwidth	=	750 kHz
F	=	type of modulation	=	Frequency modulation
3	=	modulating signal	=	a single channel
				containing analogue
				information
E	=	information type	=	Sound broadcasting
G	=	Sound of broadcasting	g qualit	y (monophonic)
Ν	=	Nature of multiplex	=	None

#### 8.3.2 Television Standard

The television standard used shall be PAL system I or the PALPlus system.

Summary list of parameters (for PAL I only):-

#### Frequency spacing

Nominal radio-frequency channel bandwidth	8 MHz
Vision/Sound Carrier separation	5.9996MHz (±0.0005 MHz)
Nearest edge of channel relative to vision carrier	-1.25MHz
Nominal width of vestigial sideband	1.25 MHz
Nominal width of main sideband	5.5 MHz

#### Modulation

Type and polarisation of vision modulation	C9F negative
Type of sound modulation	F3E
Maximum frequency deviation	$\pm 50 \text{ kHz}$
Pre-Emphasis for modulation	50 µS

Levels in the radiated signal (% of peak vision carrier)

Synchronising level	100
Blanking level	76 ±2
Difference between black level and blanking level	
(nominal)	0
Peak white level	$20 \pm 2$
Ratio of vision to sound effective radiated powers	10/1 4

# **8.3.3** Permitted second sound carrier for the transmission of stereo or bilingual sound

An additional carrier at 6.552 MHz above the vision carrier for the NICAM 728 multi channel sound system as specified in ITU-R Rec. 707 is permitted.

#### 8.4 Additional Broadcasting Services

#### 8.4.1 Permitted Additional Broadcasting Services

The transmission of a teletext service during the field blanking interval is permitted. The system used must conform to Teletext System B parameters described in ITU-R Rec. 653-1. Insertion reference signals may be transmitted on lines 17 and 330 as outlined in ITU-R Rep. 628-4. Insertion test signals for automatic monitoring of the television system may also be transmitted on other blank lines. The transmission of PALPlus signals in lines at the start and end of each frame is permitted.

A widescreen television service may broadcast in the 16:9 aspect ratio using the PALPlus system as described in ITU-R BT 1197-1 ensuring compatibility with the current PAL I system.

#### 8.4.2 Additional Broadcasting Services Requiring Approval from the Commission

Prior approval must be obtained from the Commission for any additional broadcasting services other than those indicated in 8.4.1

<sup>&</sup>lt;sup>4</sup> In certain cases an alternative vision to sound carrier ratio may be specified by the Commission

#### 8.5 Power and Polarisation

For a given assignment the radio frequency power and polarisation are specified in the licensed station characteristics. The power is given in terms of the maximum effective radiated power for the vision carrier (peak envelope power) and the sound carrier (unmodulated carrier power). The effective radiated power in a given azimuth is the maximum effective radiated power (in dBW) less the radiation restriction (in dB) at the azimuth due to the antenna radiation pattern.

As the effective radiated power is the sum of the transmitter output power (in dBW) and the gain of the antenna (in dB) in a given direction, the output carrier power of transmitter shall be adjustable so that the value of the effective radiated power in a given direction permitted for each station is not exceeded.

If the equipment is designed to operate with different levels of carrier power, the rated output power for each power level must be declared by the manufacturer.

#### 9. <u>MINIMUM FIELD STRENGTH</u>

The minimum field strengths used in planning are:

1)	$+55 dB(\mu V/m)$ for band III	(174 MHz to 223 MHz)
2)	+65dB( $\mu$ V/m) for band IV	(470 MHz to 582 MHz)
3)	$+70 dB(\mu V/m)$ for band V	(582 MHz to 862 MHz)

The VHF/UHF values are for 10 metres above ground level.

Protection cannot be sought for locations with a field strength below the above mentioned values.

#### 10. OVERVIEW OF NATIONAL BAND PLAN (Television)

#### **10.1 Frequency Channels and Standard Groups**

The VHF frequency band for television broadcasting is 174 to 222 MHz. The UHF frequency band for broadcasting is 470 to 862 MHz. The designated television channels for the VHF and UHF bands and the UHF channel grouping adopted by the Commission are detailed in Annex 1.

As a general principle and in order to minimise interference between different users the allocation of channels in a group will as far as it is practical to do so, be on the principle of co-programming i.e. the same user will be allocated the same channel in a given channel group wherever it is allocated.

Due to the phased development of UHF television broadcasting a station may initially have coverage in excess of the planned service area. With the introduction of additional stations it is to be expected that this extended service area will be reduced.

#### **10.2** Assignment List

A list of the Assignments, which constitute the national plan, will be maintained by the Commission.

#### **10.3 Planning Parameters**

The planning parameters used by the Commission correspond to those recommended by the ITU-R. A summary of these parameters is given below.

<b>Parameter</b>	Description	Value used
Propagation using terrain	Wanted Signal:	50% location, 50% time
data	-	
	Unwanted Signal, Domestic:	50% location, 5% time
	Unwanted Signal, RBL <sup>5</sup> :	50% location, 1% time
Quality of service	Continuous Interference:	Grade 4 <sup>6</sup>
	Tropospheric Interference:	Grade 3 <sup>7</sup>
Polarisation	Domestic:	15 dB
Discrimination		
	RBL:	20 dB
Maximum Receive	Domestic:	16 dB
antenna directivity	RBL:	20 dB

<sup>&</sup>lt;sup>5</sup>Re-Broadcast Link

<sup>&</sup>lt;sup>6</sup>Grade 4: Perceptible, but not annoying

<sup>&</sup>lt;sup>7</sup>Grade 3: Slightly annoying

<b>Protection Ra</b>	Protection Ratio			
Co-channel, co	ontinuous:	52 dB, no offset		
		40 dB, 4/12 line offset		
Co-channel, co	ontinuous: (PAL I interfered with	41 dB		
by DVB-T 8 N	1Hz)			
Co-channel tr	onospheric	45 dB no offset		
Co-channel, u	opospherie.	30  dB $4/12  line offset$		
Co-channel, t	ropospheric: (PAL I interfered	37 dB		
with by DVB-	T 8 MHz)			
Lower adjacen	t channel	-9 dB, tropospheric		
Analogue visio	on signal	-8 dB, tropospheric		
interfered with	th by lower adjacent channel	-4 dB, continuous		
Upper adjacen	t channel	-12 dB_tropospheric		
opper aujacen				
Analogue visio	on signal	-10 dB, tropospheric		
interfered wit	h by upper adjacent channel	-6 dB, Continuous		
DVB-T 8MHz				
Image channel		-10 dB, tropospheric		
Local oscillator channel		-10 dB, tropospheric		
Co-Channel	continuous, no offset	36 dB		
Precision	tropospheric, no offset	32 dB		
onset	continuous 4/12 line officiat	27 dB		
	tronognharia 4/12 line offect	27 UD 22 dP		
	uopospheric, 4/12 nile offset	22 UD		

Protection ratios for analogue television broadcasting interfered with by digital sound broadcasting (T-DAB) in VHF III are as given in the Wiesbaden, 1995, Special Arrangement, as revised at Maastricht 2002.

#### 11. STATION CERTIFICATION AND MAINTENANCE

#### **11.1 Access and Personnel**

Only authorised personnel shall have access to the Transmission Equipment for the purpose of adjustment or maintenance of that equipment.

The Licensee shall ensure that all authorised personnel are adequately trained for the functions they are to undertake.

#### **11.2 Examination and Testing**

When the installation of equipment is complete the Licensee shall inform the Commission and seek permission for on-air testing. The Licensee shall then examine the station and when ready to commence operations shall provide the Commission with certification indicating that the station is operating in accordance with the specified conditions and characteristics and shall inform the Commission of the date of commencement of operations.

#### 11.3 Maintenance

The transmission installation shall be so maintained as to always comply with these conditions. The Licensee shall ensure that a suitably qualified person has the necessary technical training, knowledge and practical experience so as to be able to certify that the installation and maintenance of the station complies with these conditions. The Licensee shall examine each station annually to ensure compliance and shall keep a log indicating dates and results of these examinations.

#### 11.4 Time Limit

A Maximum period of one year will be allowed from the date of amendment of a licence for an amended station to come on air and the procedures outlined in this section to be completed. If a certificate of compliance has not been forwarded to the Commission within this period the approval for the station in question may be revoked by the Commission.

#### 12. ADDITIONAL AND MODIFIED ASSIGNMENTS

#### 12.1 Requisite Information

The Licensee shall provide the Commission with all the necessary details in support of an application for an additional assignment or a modification of an existing assignment. The standard information required is contained in Annex 2.

#### 12.2 Examination

The Licensee shall have regard, in preparation of an application for an additional or modified assignment, to other Licensees having assignments in the same frequency segment and make an examination of the compatibility of the assignments. A report of this examination shall be provided to the Commission at the time of making an application.

#### **12.3 Field Strength Measurements**

It may be necessary to supply field strength measurements in support of an application or an interference complaint. In relation to VHF and UHF, these measurements shall be supplied in accordance with the procedures outlined in Annex 3.

#### **12.4 International Agreements**

The Commission is bound by the provisions of the Radio Regulations and various Regional Radiocommunications Agreements, including but not limited to the Geneva 2006 Agreement. These agreements require the Commission to undertake certain co-ordination and registration procedures when considering additions or modifications of the assignment plan.

A minimum of three months is allowed for co-ordination. However, co-ordination of additional or modified assignments cannot be guaranteed. The Licensee shall allow adequate time in planning and provide the Commission with the relevant information to ensure compliance with these agreements.

#### ANNEX 1

# TABLE OF CHANNEL FREQUENCIESandCHANNEL GROUPS

NOTE

The carrier frequencies do not include offsets. The offsets to be used will be specified in the licence.

## **BAND III CHANNELS**

#### Frequency Band 174.00 to 222.00 MHz

Channel Number	Channel Frequencies (MHz)	Vision Carrier (MHz)	Sound Carrier (MHz)
ID	174 - 182	175.25	181.25
IE	182 - 190	183.25	189.25
IF	190 - 198	191.25	197.25
IG	198 - 206	199.25	205.25
IH	206 - 214	207.25	213.25
II	214 - 222	215.25	221.25

## **BAND IV CHANNELS**

## Frequency Band 470.00 to 582.00 MHz

Channel Number	Channel Frequencies	Vision Carrier	Sound Carrier
	(MHz)	(MHz)	(MHz)
21	470 - 478	471.25	477.25
22	478 - 486	479.25	485.25
23	486 - 494	487.25	493.25
24	494 - 502	495.25	501.25
25	502 - 510	503.25	509.25
26	510 - 518	511.25	517.25
27	518 - 526	519.25	525.25
28	526 - 534	527.25	533.25
28	534 - 542	535.25	541.25
30	542 - 550	543.25	549.25
31	550 - 558	551.25	557.25
32	558 - 566	559.25	565.25
33	566 - 574	567.25	573.25
34	574 - 582	575.25	581.25

#### **BAND V CHANNELS**

## Frequency Band 582.00 to 862.00

Channel Number	Channel Frequencies	Vision Carrier	Sound Carrier
	(MHz)	(MHz)	(MHz)
35	582 - 590	583.25	589.25
36	590 - 598	591.25	597.25
37	598 - 606	599.25	605.25
38	606 - 614	607.25	613.25
39	614 - 622	615.25	621.25
40	622 - 630	623.25	629.25
41	630 - 638	631.25	637.25
42	638 - 646	639.25	645.25
43	646 - 654	647.25	653.25
44	654 - 662	655.25	661.25
45	662 - 670	663.25	669.25
46	670 - 678	671.25	677.25
47	678 - 686	679.25	685.25
48	686 - 694	687.25	693.25
49	694 - 702	695.25	701.25
50	702 - 710	703.25	709.25
51	710 - 718	711.25	717.25
52	718 - 726	719.25	725.25
53	726 - 734	727.25	733.25
54	734 - 742	735.25	741.25

#### TABLE 3 (continued)

#### **BAND V CHANNELS**

Channel Number	<b>Channel Frequencies</b>	Vision Carrier	Sound Carrier
	(MHz)	(MHz)	(MHz)
55	742 - 750	743.25	749.25
56	750 - 758	751.25	757.25
57	758 - 766	759.25	765.25
58	766 - 774	767.25	773.25
59	774 - 782	775.25	781.25
60	782 - 790	783.25	789.25
61	790 - 798	791.25	797.25
62	798 - 806	799.25	805.25
63	806 - 814	807.25	813.25
64	814 - 822	815.25	821.25
65	822 - 830	823.25	829.25
66	830 - 838	831.25	837.25
67	838 - 846	839.25	845.25
68	846 - 854	847.25	853.25
69	854 - 862	855.25	861.25

Group Number		Cha	nnels	
1	21	24	27	31
2	22	25	28	32
3	23	26	29	33
4	39	42	45	49
5	40	43	46	50
6	41	44	47	51
7	53	57	60	63
8	54	58	61	64
9	55	59	62	65
10	52	56	66	68
Some of the chann others not appearin alternative groups,	els in the ng in any for exampl	above gr group m e:	oups toge ay be for	ther with med into
3A	23	26	30	34

## TABLE OF STANDARD UHF CHANNEL GROUPS

Note: The use of other non-standard groups is considered where necessary.

## ANNEX 2

## Information for the Addition / Modification of a Television Assignment

1	Name of Transmitter Site:			
2	Geographic Coordinates:	Lat:	_ Long: _	
3	National Grid Reference:			
4	Channel(s):			
5	Offset(s)(twelfth line):			
б	Frequency (MHz)	Programme Services	Vision	Sound
7	Altitude of Site above sea level(m):			
8	Height of Antenna above ground level (m):			
9	Polarisation:			
10	Maximum Effective Radiated Power (dBW):			
11	Directivity of Antenna (D or ND):			

12 Map, Ordnance Survey Maps such as the "Discovery Series" or equivalent are acceptable, outlining the intended service area.

## 13 Radiation Restrictions (dB) if Directional

AZIMUTH	0°	10°	20°	30°	40°	50°	60°	70°	80°
Horizontal									
Polarisation									
Vertical									
Polarisation									

AZIMUTH	90°	100°	110°	120°	130°	140°	150°	160°	170°
Horizontal									
Polarisation									
Vertical									
Polarisation									

AZIMUTH	180°	190°	200°	210°	220°	230°	240°	250°	260°
Horizontal									
Polarisation									
Vertical									
Polarisation									

AZIMUTH	270°	280°	290°	300°	310°	320°	330°	340°	350°
Horizontal									
Polarisation									
Vertical									
Polarisation									

#### Annex3

#### <u>Standardised Procedure for Making</u> <u>Field Measurements of Signals Radiated from VHF and UHF</u> <u>Broadcasting Transmitters</u>

#### **Location of Tests**

- 1. The precise location of the selected test point should be noted on a map. The scale of the map should be large enough to allow a national grid reference, accurate to 100m, to be easily read.
- 2. A general description of the test point vicinity should be noted (i.e. urban, suburban, rural, mountains, flat etc).
- 3. Particular note should be made of obstructions, if any, in the vicinity that may obscure the line of sight from the selected test point to a particular transmitter.
- 4. The test point should be selected as far as possible, so as to minimize electrical interference from ESB power lines, heavy traffic or high-power industrial electrical apparatus.

#### **Taking Measurements**

#### 1. Height of Antenna above ground level (agl)

The internationally accepted reference height, used in VHF and UHF broadcast planning, for field strength values is 10 metres agl.

#### 2. Horizontal separation distance of the antenna from the mast

The antenna should be separated a suitable distance from the mast. This minimises any distortive effects on the specified antenna gain pattern which may be caused by the proximity of the mast. A separation distance of at least one quarter wavelength between the antenna and the mast is recommended.

#### 3. <u>Cable Loss</u>

Cable loss should be taken into account

#### 4. Voltage Standing Wave Ratio (VSWR)

The VSWR of the antenna should be measured, for the frequency range in question, using a VSWR meter. This is done to verify the antenna impedance is matched to that of the cable. The VSWR should be between 1.0 and 1.5.

A form to plan and record measurements has been drawn up and is contained below.

#### 5. <u>Conversion Formulae</u>

Equations for the conversion of voltage values to electric field strength values are contained in below.

Equations for conversion of voltage values to electric field strength values :

$$E = 4 * (\Pi / \lambda) * \sqrt{((30 * \mathbf{V}^2) / (R * G))}$$

where

E = Electric Field Strength (volts/metre)

 $\Pi = 3.14159$ 

- $\lambda$  = Wavelength of transmitted signal (metres)
- V = Measured Voltage Reading (volts)
- R = Input Impedance (50 ohms)
- G = Receiving Antenna Gain (Linear Ratio)

$$E_{dB\mu V/m} = 20 * Log_{10} E_{\mu V/m}$$

Alternatively,

$$E_{dB\mu V/m} = V_{dB\mu V} + 20 * Log_{10}(F_{MHz}) - G_{rx} + L_{dB} - 29.78$$

where

F = Frequency L = Feeder losses

## Date:

## MEASUREMENTS

## **Downlead (Uncorrected) Values**

Antenna Details:				
Туре:		Height (m):	Gain (dB):	
		Polarisation:	VSWR:	
Cable Loss at 100 M Cable Loss at 600 M Measuring Instrume	MHz (dB): MHz (dB): ent Used:	Cable Loss at 200 Cable Loss at 800	) MHz (dB): ) MHz (dB):	
		Test Point	t	
		NGR: Description:	NGR: Description:	NGR: Description:
Transmitter Site	Description	of Terrain in Transmi		
Station	Freq (MHz)	Signal Level (dBµV)	)	
Transmitter Site	Description	of Terrain in Transmi	tter Direction	
Station	Freq (MHz)	Signal Level (dBµV)	)	

## Sheet No.

		Test Point							
		NGR:	NGR:	NGR:					
		Description:	Description:	Description:					
Transmitter Site	Description	of Terrain in Transmi	tter Direction						
Station	Freq (MHz)	Signal Level (dBµV)	)						
Transmitter Site	Description	of Terrain in Transmi	tter Direction						
Station	Freq (MHz)	Signal Level (dBµV)	)						
Transmitter Site	Description	of Terrain in Transmi	tter Direction						
Station	Freq (MHz)	Signal Level (dBµV)	)						

## Date:

**PART II – Technical Schedules** 

# Section 1 - VHF and UHF TV - RTÉ One and RTÉ Two Page 1 of 16

				Site		纓		VISION	E KIMEN E	Erimary 7	Source Source	Nicam Vi			
Station Name		LongituHat		劚		感	VISION Carrier	(dew/	MH71		Fred (MH7)	en (dBW)	Name		齫
	<u>200</u>		521/224	104		鬥	REAL STREET	17	670 Joi	CELOFICACIÓN DE LA COLORIZACIÓN DE T	670 ol	n e	RTÉ One T	102	¥⊙≌
	40	IEVING	52112213	10/		井	623.25	17	C29.25		629.8 CC3 0	U.E-	RTÉTUR		
	10N	J0W0125	52N2213	194 365	- 20	<del>;  </del>	612.25	11	670.25	/ 	570 01	ע.ב- ח בכ	RTÉOne	귀	
ACHILL VP	47	10W0135	53N5726	365	501	÷	647 25	43 43	653 25	33	653.8	23.0	RTÉTwo	32	0
AGHAVANNAGH	54	6W26201	52N9826	285		<del>أ ا</del>	735 25	12	741.25		7 <u>41 R</u>	-7.0	RTÉ One		
AGHAVANNAGH	58	6W2625	52N5525	285	6	<del>,</del>	767 75	11	773.25		773.8	-7.0	RTÉTwo		
ANASCAUL	30	10W0902	52N0334	 	-5	н I	615.25	10	621.25	<u></u>	621.8	-10.0	RTÉOne		N
ANASCAUL	47	10W0907	52N0374	<u>-' </u>	-5	л П	639.25	10	645.25		645.8	-10.0	RTÉTWO		N
ANNAGARY	30	BW2004	55N0120	15	5	H I	543.25	0	549.25	-10	549.8	-20.0	RTÉ One	0	N
ARAGLIN	54	8W0902	52N1312	183	5	H I	735.25	0	741.25	-1.0	741.8	-20.0	RTÉ One	0	N
ARAGLIN	58	8W0902	52N1312	183	5	Ĥ	767.25	0	773.25	-10	773.8	-20.0	RTÉTwo	0	N
ARANMORE	39	8W3027	54N5859	125	45	V	615.25	39	621.25	29	621.8	19.0	RTÉ One	0	D
ARANMORE	.42	8W3027	54N5859	125	45	V	639.25	39	645.25	29	645.8	19.0	RTÉ TWO	32	D
ASHFORD	22	6W0554	53N0053	50	18	٧	479.25	16	485.25	6	485.8	-4.0	RTÉ One	32	N
ASHFORD	25	6W0554	53N0053	50	18	V	503.25	16	509.25	6	509.8	-4.0	RTÉ Two	32	N
ASHLEAM	21	9W5536	53N5431	20	_ 10	۷	471.25	14	477.25	4	477.8	-6.0	RTÉOne	0	N
ASHLEAM	24	9W5536	53N5431	20	10	V	495.25	14	501.25	4	501.8	-6.0	RTÉ TWO	-32	N
AVOCA A/BALLYARTHUR	60	6W1323	52N5035	30	5	Н	783.25	0	789.25	-10	789.8	-20.0	RTÉOne	D	N
AVOCA A/BALLYARTHUR	63	6W1323	52N5035	30	5	н	807.25	0	813.25	-10	813.8	-20.0	RTÉ Two	0	N
AVOCA B/AVOCA	30	6W1255	52N5101	30	5	V	543.25	0	549.25	-10	549.8	-20.0	RTÉ One	Ō	N
AVOCA B/AVOCA	34	6W1255	52N5101	30	5	٧	575.25	0	581.25	-10	581.8	-20.0	RTÉ Two	0	N
BALLINASTOE SH	30	6W1113	53N0615	240	6	٧	543.25	0	549.25	-10	549.8	-20.0	RTÉ One		<u> </u>
BALLINASTOE SH	34	6W1113	53N0615	240	6	V	575.25	0	581.25	-10	581.8	-20.0	RTÉTWO	0	N
BALLINGEARY	54	9W1333	51N5010	220	18	Н	735.25	14	741.25	4	741.8	-6.0	RTÉ One	Ō	Ē
BALLINGEARY	58	9W1333	51N5010	220	18	Н	767.25	14	773.25	4	773.8	-6.0	RTÉ Two	ق	
BALLINGLEN	21	9W2250	54N1345	70	10	H	471.25	10	477.25		477,8	-10.0	HTE One	قًـــــ	Ē
BALLINGLEN	24	9W2250	54N1345	70	10	Ĥ	495.25	10	501.25	0	501.8	-10.0	RTE Two	-32	
BALLINTRILLICK	30	8W2524	54N2434	48	30	н	543.25	17	549.25	7	549.8	-3.0	KIE One	آ ب	
BALLINTRILLICK	34	8W2524	54N2434	48	30	μĒ	575.25	17	581.25	7	581.8	-3.0	KIETWO	32	
BALLYANDREEN	29	8W0315	51N4930	61	6	٧	535.25		541.25	-10	541.8	-20.0	RIE One		
BALLYANDREEN	33	8W0315	51N4930	61	6	۷	567.25		573.25	·	573.8	-20.0	INTÉ C	-32	
BALLYBOFEY	54	7W4458	54N4730	83	37	۷.	735.25	27	741.25	17 	741.8	7.0			+ <u>-</u>
BALLYBOFEY	58	7W4458	54N4730	83	37	Ψ_	767.25	27	773.25	17	773.8	7.C	IPTE C-		+
BALLYDAVID	22	10W2215	52N1143	15	20	۱ <u>۷</u>	479.25	23	485.25	13	485.8		RTE T	32	
BALLYDAVID	25	10W2215	52N1143	15	20	۳ <u>۲</u>	503.25	23	509.25	'  <u>13</u>	1 509.8		RTÉ O	32	
HALLYMACARBRY	54	7W4354	52N1550	158	12	H	735.25	'  <u>15</u>	/41.25	· <u> </u>	. /41.8	-5.4	RTÉ Ture	-32	<b>+</b>
PALLY IVIACARBRY	158	/W4354	52N1550	158		- rl	/67.25	15	//3.25		7/3.8	1.C- 2.0C	IRTÉORT	12	<u>۱</u>
BALLYPUKEEN	48	8W0625	52N1656	107		1 <u>H</u>	087.25	، - ا	- 093.25	-10	3.550	-20.0	RTÉ Ture		
BALLYPUREEN	+ 52	BW0625	52N165E	107	<u>+</u>	H H	/19.25	· <u> </u>	/25.25 	-11		-20.0	) RTÉ One	7	<u>                                     </u>
PANDON	41	8W4347	51N442E	55		造	031.25	<u> </u>	1 661 75	<b></b>	L 100	-3.0	) RTE Two	77	
	44	BW4547	C1NP055	- 55 	<u> </u>	뉴	22.25		1 630 75	- - - - -	670 0	-5A 107	) RTÉ One	-37	
BANTRY NO	+40	9472036 01/2620	51/13050	175	- 3:	늡	643.25		1 653.75	1 20	1 657 R	10.0	) RTÉ Two	-37	<u>†</u>
BANTRY VP	43	BEBS VVE	51NI2000	1/5		튜		30	1 670 T	;	620 P	16/	RTÉOne	-32	
BANTRY VP	40	3602446	51N2055	175	:t 	$\frac{1}{2}$		31	1 652 TE	1 76	652 Q	167	RTETWO	-37	
BEALANABBACK	43	JEdzyve 	53M3435	- 1/5	 ;	╬	61E 7E		) 671 7º	10	) 621 ¢	3 01	RTÉOne	-37	
BEALANARRACK	199	4W/2577	53N2124	75	1	규	630 25	20	) 645.75	10 10	1 645 9	3 07	RTÉTWO	 _ n	
BEEFAN	+42	8W/227	54NA754	1 =	╫┈	╓		10	) 637 25	<u></u>	) 637 9	3 -107	) RTÉ One		i <del> </del>
BEEFAN	+41	80/1995	54NA7EC	1 20	╎╴┊	규	655 70		7 661 20		) 661 9	3 -107	RTE TWO		
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BELLEVUE-GREVSTONES	+==	- GWDson	53NNPE	1 220		╦	759.75	;	765 75	3 20	765 8	3 10.0	D RTÉ Two	-32	i i
BEN GORM	1 54	9WAACE	1 53N3646	111		╦	735.25		741.75	5 0	741.8	3 -10.0	ORTÉ One		<u>j</u>
		9W4455	1 53N364	1 110	<del>,</del>	ज्ञे	767 25	11	773.25	5 r	773.8	3 -10.0	RTE Two		j
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BEN GORM BLARNEY BLARNEY	29	8W3503	51N550	101	1 7	sР	, 1 567.7°	i  7'	<sup>عري</sup> د اد	5  10	ມ <b>57</b> 3./	<u>s 0./</u>	JIRTE Two	] - 35	<u> </u>
BEN GORM BLARNEY BLARNEY BONANE	29 33 4r	8W3503 8W3503 9W3151	51N5503 3 51N5503 9 51N497	101 102 5 13	1 2!	5 H 6 F	623.2	5 20	0 629.2 <sup>1</sup>	5 -1(	) 573.8 D 629.	3 0.0 B -20./	DRTÉ One		
BEN GORM BLARNEY BLARNEY BONANE BONANE	29 33 4(	8W3503 8W3503 9W3159 3 9W3159	51N5503 51N5503 51N492 51N497	101 101 111 113 5 13	1 25 7 ( 7	5 H 6 H 6 F	623.25 647.2	i 20 5 (	0 653.2'	5 -1( 5 -1)	) 573.8 0 629.1 0 653.	3 0.0 3 -20.0 8 -20.7	D RTÉ Two D RTÉ One D RTÉ Two		
BEN GORM BLARNEY BLARNEY BONANE BONANE BRISKA	29 33 40 45	8W3503 8W3503 9W3155 9W3155 9W3155 4 9W431	51N5503 51N5503 51N492! 51N492 551N492	101 101 101 1101 1101 1101 1101 1101 1		5 H 5 H 6 H 2 F	623.25 623.25 647.21 735.27	i 20 5 ( 5 1 5 1	0 629.25 0 653.24 0 741.2	5 -1( 5 -1( 5 -1)	) 573.8 ) 629.8 0 653.0 0 741.	3 0.0 3 -20.0 8 -20.0 8 -10.	D RTÉ Two D RTÉ One D RTÉ Two O RTÉ One		
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BEN GORM BLARNEY BLARNEY BONANE BONANE BRISKA BRISKA BROADFORD	29 33 40 43 54 54 54	8W3503 8W3503 9W3155 9W3155 9W4315 9W431 9W431 9W431	51N5503 51N5503 51N4925 51N4925 51N4925 54N090 554N090 852N480	101 101 101 101 101 101 101 101	25 7 ( 7 ( 0 1 1 1	5 H 5 H 5 H 2 H 2 H 2 V	623.25 647.25 735.21 735.21 767.2 767.2	i 20 i ( i ( 5 1) 5 1 5 1	373.25           0           629.25           0           653.25           0           741.2'           0           773.2'           3           629.2	3 10 5 -10 5 -10 5 ( 5 ( 5 ( 5 (	)         573.8           )         629.8           )         653.4           0         741.1           0         773.           3         629.8	3 0.0 3 -20.0 8 -20.0 8 -10.0 8 -10.0 8 -7.	D RTE Two D RTE One D RTE Two O RTE One D RTE Two D RTE Two		
BEN GORM BLARNEY BLARNEY BONANE BONANE BRISKA BRISKA BROADFORD BROADFORD	29 33 40 43 57 58 4( 4( 4)	8W3503 8W3503 9W3155 9W3155 9W4315 9W4315 3 9W4315 3 9W4315 3 8W385 8W385	51N5503 51N5503 51N4925 51N4925 51N4925 551N4925 554N0900 554N0900 852N480 852N480	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	25           7           7           7           0           1           1           1           1	5 H 5 H H H V V	647.25 647.25 735.25 775.25 767.22 767.22 647.2 647.2 647.2 647.2	20 3 4 5 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	3         3/3.25           0         629.25           0         653.25           0         741.2'           0         773.2'           3         629.2'           3         653.2	i         10           5         -10           5         -10           5         -10           5         0           5         0           5         0           5         0           5         0           5         0	)         573.8           )         629.8           )         653.8           )         741.1           )         773.1           3         629.8           3         653.8	S         0.0           3         -20.0           3         -20.0           3         -10.0           8         -10.1           8         -7.1           8         -7.2	D RTE Two D RTE One D RTE Two D RTE One D RTE One D RTE Two O RTE One O RTE Two	32	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
BEN GORM BLARNEY BLARNEY BONANE BONANE BRISKA BRISKA BROADFORD BROADFORD BURT	29 33 40 43 54 54 54 4( 4) 4( 4)	8W3503 8W3503 9W3155 9W3155 9W4315 9W4315 9W4315 3 9W4315 3 8W385 3 8W385 3 8W385 5 7W291	51N5503 51N5503 51N4922 51N4923 54N090 554N090 852N480 852N480 855N015	101 101 101 101 101 101 101 101	25       7     6       7     6       7     1       0     1       1     1       0     1	5 H H H H V V V	647.25 647.25 735.25 767.25 767.25 767.25 767.25 767.25 767.25 767.25 767.25 767.25 767.25	$ \begin{array}{c} 1 & 20 \\ 5 & 0 \\ 5 & 10 \\ 5 & 10 \\ 5 & 1 \\ 5 & 1 \\ 5 & 1 \\ 5 & 1 \end{array} $	7         373.25           2         629.25           0         653.25           0         741.25           0         773.25           3         629.25           3         653.25           7         677.2	i         10           i         -10           i <td< td=""><td>)         573.8           )         629.8           )         653.4           )         653.4           )         741.7           )         773.9           3         629.3           3         653.3           3         653.3           3         677.9</td><td>3         0.0           3         -20.0           3         -20.0           3         -20.0           8         -10.0           8         -7.0           8         -7.3           8         -13.0</td><td>D RTE Two D RTE One D RTE Two D RTE Two D RTE Two O RTE Two O RTE Two O RTE Two O RTE One</td><td></td><td>) N ) N ) C ) C ) C</td></td<>	)         573.8           )         629.8           )         653.4           )         653.4           )         741.7           )         773.9           3         629.3           3         653.3           3         653.3           3         677.9	3         0.0           3         -20.0           3         -20.0           3         -20.0           8         -10.0           8         -7.0           8         -7.3           8         -13.0	D RTE Two D RTE One D RTE Two D RTE Two D RTE Two O RTE Two O RTE Two O RTE Two O RTE One		) N ) N ) C ) C ) C
BEN GORM BLARNEY BLARNEY BONANE BONANE BRISKA BRISKA BROADFORD BROADFORD BURT BURT	29 33 40 43 54 54 54 40 43 54 40 41 40 41 40 41	8W3503 8W3503 9W3155 9W3155 9W4311 39W4311 38W3851 38W3851 38W3855 7W291 87W291	51N5503 51N5503 51N4925 551N4925 554N090 554N090 852N480 852N480 855N015 855N015	101 101 1137 1137 2 22( 2 22( 2 22( 5 6 5 6 5 6 5 4 5 4	25           7         6           7         1           1         1           1         1           0         1           0         1	5 H H H H V V V V	647.25 647.25 735.25 767.25 647.22 647.22 647.22 647.22 647.22 647.22 647.22 647.22 647.22 647.22 647.25	20 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	7         373.25           0         629.25           0         653.25           0         741.25           0         773.25           3         629.25           3         653.25           7         677.2           7         693.2	10           5         -10           5         -10           5         0           5         0           5         0           5         0           5         0           5         0           5         -           5         -           5         -           5         -           5         -           5         -	)         573.8           )         629.8           )         653.8           )         741.8           )         773.8           3         629.3           3         653.3           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4	§         0.0           3         -20.0           3         -20.1           3         -20.1           3         -10.1           3         -10.1           8         -7.1           8         -7.1           8         -13.	D RTE Two D RTE One D RTE Two D RTE Two D RTE Two D RTE Two O RTE One O RTE One O RTE Two		
BEN GORM BLARNEY BLARNEY BONANE BONANE BRISKA BRISKA BROADFORD BROADFORD BURT BURT CAHIR	29 33 40 43 54 54 40 43 54 41 41 3 <sup>1</sup>	8W3503 8W3503 9W3155 9W3155 9W4315 9W435 9W5 9W5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	51N5503 51N5503 51N4925 51N4925 551N4925 554N090 554N090 552N480 852N480 855N015 855N015 855N015 052N231	101 101 137 137 222( 222( 56) 56) 54 54 54 117	25 / ( / ( ) 1: ) 1: 1 1: 1 1: 1 1: 1 1: 1 1: 1 1: 7 2	H         H         H         H         H         I	623.25 647.25 735.25 767.25 647.21 647.21 647.21 647.21 647.21 647.21 6687.2 7 687.2 7 623.2	20           20	3         629.25           0         653.25           0         741.25           0         773.21           3         629.22           3         629.22           3         629.22           3         629.22           3         653.22           7         677.22           7         693.2           00         629.2	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	)         573.8           )         629.8           )         653.8           )         741.4           )         773.4           3         629.8           3         653.3           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           3         653.4           4         693.4           0         629.4	§         0.0           3         -20.0           3         -20.0           3         -10.0           3         -10.1           8         -7.1           8         -7.1           8         -7.3           8         -13.           8         -13.           8         0.1	D RTE TWO D RTE One D RTE TWO D RTE TWO D RTE One D RTE TWO O RTE TWO O RTE One O RTE TWO O RTE TWO O RTE One	- 32 - 0 - 0 - 0 - 0 - 32 - 32	) N ) N ) C ) C ) C ) C ) C ) C ) C ) C ) C ) C
BEN GORM BLARNEY BLARNEY BONANE BONANE BRISKA BRISKA BROADFORD BROADFORD BURT BURT CAHIR CAHIR	29 33 40 43 54 54 40 41 40 41 3! 3	8W3503 8W3503 9W3155 9W3155 9W4315 9W4315 9W4315 9W4315 3 8W3858 3 8W3858 3 8W3858 3 8W3858 5 7W2911 5 7W2911 5 7W570 7 7W570	51N5502 51N5502 51N4925 51N4925 551N4925 551N4925 554N090 554N090 554N090 554N090 554N090 555N015 855N015 855N015 855N015 052N231 052N231	$ \begin{array}{c} 101 \\ 101 \\ 137 \\ 137 \\ 137 \\ 137 \\ 222 \\ 222 \\ 222 \\ 56 \\ 56 \\ 54 \\ 54 \\ 117 \\ 117 \\ 17$	25 7 6 7 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1		677.25 623.25 647.25 735.25 767.25 767.25 767.25 767.25 7671.21 7671.2	i 2( i ( i ( i ( i ( i ( i ( i ( i ( i ( i	3         3/3.25           3         629.25           0         741.25           0         773.25           3         629.22           3         629.22           3         629.22           7         677.22           7         693.2           0         629.2           0         629.2           0         653.2	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	)         573.8           )         629.8           )         653.8           )         741.1           )         773.1           3         629.1           3         653.1           3         677.1           3         677.1           3         677.1           3         677.1           3         677.1           3         677.1           3         677.1           3         673.1           0         629.0           0         629.1	S         0.0           3         -20.0           3         -20.0           3         -10.0           3         -10.1           3         -7.1           8         -7.1           8         -13.0           8         -13.0           8         0.0           8         0.0	3) RTE Two           3) RTÉ One           6) RTÉ Two           6) RTÉ Two           7) RTÉ One           7) RTÉ One           8) RTÉ Two           7) RTÉ One           7) RTÉ Two           7) RTÉ One           7) RTÉ Two	32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Image: 1         Image: 1

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# Section 1 - VHF and UHF TV - RTÉ One and RTÉ Two Page 2 of 16

				Site /	ht.			Vision	Primary S	Primary	Secondary	NICam	Souther		
Station Name		Ionaltide	latitude i		nt. mii -		Fren (MHz)	ELLER C	Sourio Reed.	IdBW)	Sound Carnet	(dBW)	- Service - Name	fise	
						11					ST-20			NON I	
CAIRN HILL	43	7W4258	53N4825	277	129 H	-	647.25	59	553.25	49	733.8	39.0	RIE IWO		
CARHAN (KILLURLEY WEST)	53	10W1136	51N5824	40	12 1		727.25	20	733.23	10	753.0	0.0	RTÉTHO	-32 n	
	11	610/07/0	54NI0129	10	25 1	-	621 25	20	637.25	13	637.8	0.0 קר	RTÉ One	0	D
	41	61/0749	54N0138	10	35 V	-	655.25		661.25	13	661.8	3.0	RTÉTwo	0	
CARRICKMOURNE	54	7W0749	52N3150	30	101	-	735.25	13	741.25	3	741.8	-7.0	RTÉ One	0	N
CARRICKMOURNE	58	7W0749	52N3150	30	101	(	767.25	13	773.25	3	773.8	-7.0	RTÉ Two	0	N
CARRIGADROHID	54	8W5125	51N5333	88	151	1	735.25	0	741.25	-10	741.8	-20.0	RTÉ One	0	N
CARRIGADROHID	58	8W5125	S1N5333	88	15	1	767.25	0	773.25	-10	773.8	-20.0	RTÉ Two	0	N
CARROWREVAGH	30	9W3400	53N4310	212	5 \	7	543.25	14	549.25	4	549.8	-6.0	RTÉ One	٥	D
CARROWREVAGH	34	9W3400	53N4310	212	5 \	7	575.25	14	581.25	4	581.8	-6.0	RTĖ Two	0	D
CASLA	39	9W3334	53N1721	10	55 \	7	615.25	37	621.25	27	621.8	17.0	RTÉ One	0	D
CASLA	42	9W3334	53N1721	10	55 \	1	639.25	37	645,25	27	645.8	17.0	RTÉ Two	32	D
CASTLEBAR	29	9W2223	53N5530	420	601	1	535.25	43	541.25	33	541.8	23.0	RTÉ One	32	N
CASTLEBAR	33	9W2223	53N5530	420	601	i	567.25	43	573.25	33	573.8	23.0	RTÉ Two	32	N
CASTLETOWNBERE	53	10W0003	51N3822	460	35 \	/	727.25	43	733.25	33	733.8	23.0	RTÉ One	0	D
CASTLETOWNBERE	57	10W0003	51N38ZZ	460	35 \	/	759.25	43	765.25	33	765.8	23.0	RTÉ Two	-32	
CLERMONT CARN	52	6W1919	54N0443	510	116	/	719.25	55	725.25	45	725.8	34.7	RTÉ One	32	
CLERMONT CARN	56	6W1919	54N0443	510	116	/	751.25	55	757.25	45	757.8	34.7	RTE Two	32	
CLERMONT CARN LP	29	6W1919	54N0443	510	45		535.25	20	541.25	10	541.8	0.0	RTE One	32	
CLERMONT CARN LP	33	6W1919	54N0443	510	45	/	567.25	20	573.25	10	573.8	0.0	RTE TWO	32	
CLIFDEN	22	9W5618	53N3024	270	50	<u> </u>	479.25	43	485.25	33	485.8	23.0	RTE One		
CLIFDEN	25	9W5618	53N3024	270	50 '	V	503.25	43	509.25	33	509.8	23.0	RTETWO	<u> </u>	ᆜ
CLIFDEN GLEN	39	9W5909	53N2916	61	10	V	615.25	10	621.25	0	621.8	-10.0	RIEOne	0	
CLIFDEN GLEN	42	9W5909	53N2916	61	10	<u>v</u>	639.25		645.25		645.8	-10.0	RIE IWO		
CLOGHAN (Donegal)	40	7W5643	54N5058	140	5	H	623,25		629.25	-10	629.8	-20.0	RTE One		
CLOGHAN (Donegal)	43	7W5643	54N5058	140	5	H	647.25		653.25	-10	653.8 EAD E	-20,0	RTE OPO		
CLOGHANE	30	10W1054	52N1432	60	5		543.25		549.23	-10	545.0	-20.0	BTÉ TWO		N
CLOGHANE	34	10W1054	52N1432	01	5		5/5,25		531.25	-10	521.0 621.8	-20.0	ISTÉ One	1 37	
	39	8W5552	51N3645	01 91	30		615.23		645.75	/ /	645 6	-3.0	RTE TWO	-32	
	42	8005552	51N3045	31	17	<u>.</u>	615 25	1	671.25	/ · · · · ·	671 8	-7.0	RTÉ One	32	
	1 39	710/2521	SEN1637	23	17	$\frac{v}{v}$	639.25	1	645.25		645.8	-7.0	RTÉTWO	-32	
	42	714125	52N12025	رع 715	30	<del>й</del>	615.25		671.75	20	621.8	10.0	RTÉ One	-32	
	40	7W4135	52N2025	215	30	H H	639.25	30	645.29	ZC	645.8	3 10.0	RTÉ Two	32	D
		8W1625	55N0842	70	5	H	543.25		549.25	-3	549.8	3 -13.0	RTÉ One	Ó	D
	34	8W1625	55N0842	70	5	H	575.25		581.29	-	581.8	-13.0	RTÉ TWO	0	Б
COLLINS BARRACKS	39	8W2759	51N5508	67	37	v	615.25	j 27	621.29	17	621.8	3 2.0	RTÉ One	32	D
COLLINS BARRACKS	49	8W2759	51N5508	67	37	Ń	695.25	5 22	2 701.25	17	2 701.8	3 2.0	RTÉ TWO	C	D
CORNAMONA	21	9W264	53N3115	100	25	v	471.25	j 1(	477.2	i (	477.1	3 -10.0	RTÉ One	32	D
CORNAMONA	24	9W264	53N3115	100	25	v	495.25	5 10	501.2	; (	501.1	3 -10.0	RTÉ Two	32	D.
CRAFFIELD	30	6W221	52N5133	213	10	н	543.25	5 10	549.2	5 (	549.1	3 -10.0	RTÉ One	C	) D
CRAFFIELD	34	6W221	52N5133	213	10	н	575.25	5 10	581.25	i (	581.	3 -10.0	RTÉ Two	C	) D
CRIMLIN EAST	41	9W2949	53N3106	55	6	V.	631.25	5 1	637.2	5 (	637.	8 -10,0	) RTÉ One	0	J D
CRIMLIN EAST	44	9W2949	53N3106	55	6	v	655.2	5 1	661.2	5 (	661.	8 -10.0	I RTÉ TWO	0	) D
CROSS	46	7W143	55N0830	194	18	Н	671.2	5 1	677.2	5 (	<b>677</b> .	8 -10.	RTÉ One	0	<u> </u>
CROSS	52	2 7W14	S5N0830	194	18	Н	719.2	5 1	725.2	5 (	725.	B -10.0	RTE Two	(	<u> </u>
CROSSBARRY	54	8W3759	) 51N4657	72	15	۷	735.2	5 2	741.2	5 10	741.	8 0.1	DIRTE One	-37	
CROSSBARRY	58	8 8W3759	51N4657	72	15	۷	767.2	5 2	773.2	5 10	773.	8 0.0		32	
CROSSHAVEN	55	5 8W1739	51N4728	91	45	V.	743.2	5 3	749.2	2	u 749.	8 10.	JIKIE One	32	<u>                                     </u>
CROSSHAVEN	59	8W1739	51N4728	91	45	V	775.2	5 3	781.2	2	u 781.		JINIE IWO		1
CURRANS PORT	51	8W1328	3 55N0857	10	10	н	711.2	5 1	0 717.2		0 /1/.	8 -10.	DIRTE UNE		
CURRANS PORT	4/	4 8W1328	3 55N0857	10	10	H	655.2	5 1	0 661.2			8 -10.			
CURRAUN	30	0 6W533	7 52N2708	116	5	ľ	543.2		u 549.2	-1	549.	o -20. o -20.			
CURRAUN	34	4 6W533	7 52N2708	116	5	V.	575.2	5	0 581.2	-1	U 581.	8 -2U.			
DINGLE	2:	3 10W1830	5 52N0719	61	34	V.	487.2	5 2	/ 493.2	5 I	7 493.	0 7. 0 7			
DINGLE	-  20	10W183	52N0719	61	34	ľ	511.2	2	0 517.2		n 51/.	8 20			
DONARD	- 39	BW371	53N0129	198	<u>  7</u>	ľ	615.2	2		-1	0 621. D 640	8 _20			
DONARD	4	2 6W3/1	1 53NU125	1 198			2.9Ed		0 043,2	<u>-1</u> 5 7	0 43.	8 10	O RTÉ One	1	2 D
DOUNCARTON (IDRRAS)		1 9VV493	1 54N1623	200	10		4/1.2	<u>- </u>	0 477.2	5 7	0 477	8 10	ORTE One		2 N
DOONCARTON (IUKRAS)	- 2	1 9W493	1 EAM1C7	200			4/1.2		0 9/7.2 0 9/7.2	5 7	0 501	8 10		3	2 0
DOONCARTON (IORRAS)	- 2	4 0\//493	1 5411623	200	1 10	Ц¥ IH	105 7	-  - -  -	0 501.2	5 7	0 501	8 10	ORTETWO	3	2 N
DRIMOLEAGUE	- 2	910493	4 51N3755	170		V		5 7	7 621 2	5 1	7 621	8 7.		-3	2 D
DRIMOLEAGUE		2 0//153	4 51N375	17		t	610.2	5 7	7 645 2	5 1	7 645	8 7.	O RTÉ TWO		D
DROMANASSIG		4 9\\/310	7 51N5040	107	1 10	Тř	715 2	5 1	0 741.2	5	0 741	8 -10.	ORTÉ One		ΰN
UNUMPERASI'S		T 244973		<u> </u>	1 10	'''		<u> </u>	-1	_L					لنجهد

## Section 1 - VHF and UHF TV - RTÉ One and RTÉ Two

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		100%	的感情。	Site	Anti			Vision	erimany e	Primary	Secondary	Nicam	影響的影		靐
				北省	调制		Vision Carrier	ERP	Sound Freq.	Sound ERP	Sound Garrier	Sound ERP.	Service	影	
Station Name.	Chi	Longitudei	statitude i	(m)]	(m)	Rol	Ereg. (MHz)	(dBW)]	Est (MHz)	(dBW)	Freq (MHz)	(면W) 꼭	Name	影響	
DROMANASSIG	58	9W3152	51N5049	107	10	н	767.25	10	773.25	0	773.8	-10.0	RTÉ Two	D	N
DROMORE	54	7W4122	54N572	20	5	н	735.25	10	741.25	0	741.8	-10.0	RTÉ One	0	D
DROMORE	58	7W4122	54N572	20	5	н	767.25	10	773.25	0	773.8	-10.0	RTÉ Two	0	D
DROMORE CORK	41	9W2155	51N3858	90	5	H	631.25	0	637.25	-10	637.8	-20,0	KTÉ One	32	N
DROMORE CORK	44	9W2155	51N3858	90	5	H	655.25	0	661.25	-10	661.8	-20.0	KTE Two	-32	N
DROUMGARRIF	22	9W3207	51N4535	122	10	H	479.25	0	485.25	-10	485.8	-20.0	KTE One	0	N
	25	9W3207	51N4535	122	10	H	503.25	0	509.25	-10	509.8	-20.0	RIETWO		N
	53	9W3721	53N4055	300	10	н	727.25	0	733.25	-10	733.8	-20.0	n it Une p⊤≠ <del>-</del>		N
	57	9W3721	53N4055	300	10	H	759.25	0	765.25	-10	765.8	-20,0	NIE IWO	0	N
	53	/W4404	52NU414	255			/27.25	40	/33.25		/33.8	20.0	RTÉ T	32	<u> </u>
	27	/ 1/04404	JZNU414	255	50		/59.25	40	/05.25	05	/05.8 	20.0	RTÉ O	32	U 
	19	8W0707	55110043	152	5	п 14	620.25	U	021.25 646.35	101	021.8 EAE 0	-20.0 	RTÉ Turo		N N
	A1		518/4240	110	ב זר	n V	621.25 521 JE	0	617 JE	10	043.8 637 0	-20.0 A A	RTÉ One	0	
DUNMANWAY	41 AA	9W0414	51NA249	110	دیـ ۱۲	v	1.45 555 75	20 20	661.25	01 10	661 R	0.0	RTÉTwo	n	۲۹ الح
DUNQUIN	30	10W2756	52N0800	-10	<u>د</u> م	н	543.25	20 17	549.25		540.8	-7 0	RTÉ One	0	N
DUNQUIN	34	10W2756	52N0800	55	9	н	575 25	13	581 75		581 8	-7.0	RTÉ Two	32	N
ENNISTYMON	54	9W1800	52N5808	45	25	H.	735.25	13	741.75		741.8	-7.0	RTÉ One	32	D
ENNISTYMON	58	9W1800	52N5808	45	25	н	767.25	13	773.25	3	773.8	-7.0	RTÉ Two	-32	D
FAILMORE	54	9W3341	53N3015	20	15	v	735.25	10	741.25		741.8	-10.0	RTÉ One	0	N
FAILMORE	58	9W3341	53N3015	20	15	v	767.25	10	773.25	0	773.8	-10.0	RTÉ Two	0	N
FALCARRAGH	21	8W1032	55N0816	98	40	v	471.25	23	477.25	13	477.8	3.0	RTÉ One	32	D
FALCARRAGH	24	8W1032	55N0816	98	40	v	495.25	23	501.25	13	501.8	3.0	RTÉ Two	32	D
FALLMORE	22	10W0605	54N1610	90	16	н	479.25	10	485.25	0	485.8	-10.0	RTÉ One	0	D
FALLMORE	25	10W0605	54N1610	90	16	н	503.25	10	509.25	0	509.8	-10.0	RTÉ Two	0	D
FANAD	61	7W3949	55N1338	220	30	v	791.25	37	797.25	27	797.8	17.0	RTÉ One	-32	D
FANAD	58	7W3949	55N1338	220	30	v	767.25	37	773.25	27	773.8	17.0	RTÉ Two	32	D
FANORE	30	9W1931	53N0458	45	5	Н	543.25	0	549.25	-10	549.8	-20.0	RTÉ One	0	N
FANORE	34	9W1931	53N0458	45	5	Н	575.25	0	581.25	-10	581.8	-20.0	RTÉ TWO	0	N
FEOHANAGH SH	21	10W214	52N1318	45	10	v	471.25	10	477.25	0	477.8	-10.0	RTÉ One	0	D
FEOHANAGH SH	24	10W214	52N1318	45	10	v	495.25	10	501.25	0	501.8	-10.0	RTÉ Two	0	D
FERMOY	39	8W1649	52N0836	50	30	V	615.25	20	621.25	10	621.8	0.0	RTÉ One	32	
FERMOY	42	8W1649	52N0836	50	30	v	639.25	20	645.25	10	645.8	0.0	RTÉ TWO	-32	
FERMOYLE	29	8W5205	52N0525	200	8	Н	535.25	10	541.25	0	541.8	-10.0	RTÉ One	0	
FERMOYLE	33	8W5205	52N0525	200	8	н	567.25	10	573.25	0	573.8	-10.0	RTÉ TWO	0	
FERRYPOINT	41	7W4936	51N5708	61		V	631.25	17	637.25	7	637.8	-3.0	RTÉ One	32	
FERRYPOINT	44	7W4936	5 51N5708	61		v	655.25	17	661.25	7	661.8	-3.0	RTE Two	-32	
FINVARRA	21	9W0611	1 53N0859	25	20	<u>I</u> v	471.25	17	477.25	7	477.8	-3.0	KTE One		
FINVARRA	24	9W0611	1 53N0859	25	20	Ψ	495.25	17	501.25	<u> </u>	501.8	- <u>-</u> .0	KTE TWO	<u>↓</u>	<sup>3</sup>
FOUNTAINSTOWN	<u> </u>	8W1846	51N4600	30	I I	ľ	543.25		1 549.25	-10	549.8	-20.0	IKTE One	<u>↓</u> °	
FOUNTAINSTOWN	34	8W1846	51N4600	30	1	۱V V	575.25	<u>'  </u>	1 581.25	-10	581.8	-20.0	INTE TWO	0 	
GLANDORE	52	9W0530	J 51N3330	120	1 18	slv ا	719.25	17	725.25	7	725.8	-3.0	In IC UNE	32	
GLANDORE	56	9W0530	י 51N3330	120	1 18	ľ	751.25	<sup>17</sup>	757.25	7	757.8	-3.0	Inte IWO	- 32	
GLANLEA	29	8W2822	2 51N4527	22(	1 1	лH Н	535.25	'  <u>1</u> (	<u>1 541.25</u>		541.8	-10.0	PTÉ TO	<u>+</u>	
	1 33	8W2822	a 51N4527	22(	ין <u>י</u>	뀨	567.25	1 	1 5/3.25	<u>م</u>	5/3.8	-10.0	RTE IWO	-27	
	41	8W2311	1 51N5447	35	;  <u>3(</u>	쁥	631.25	2	1 637.25	13	637.8 FC1 7	U.E	RTE TOTE	-54	
	44	8W2311	1 51N5447	35	1 31	쁥			1 561.25	13	561.8 C40.0	3.0	BTÉ O	1 34	
GLEANN NA NGEALT		9W5619	52N1251	15(	11.		543.25	1	1 549.25 1 EPI 70	- -	549.8	-7.0	BTE THE		1 I
	1 34	W561	2 22N1253	15(			5/5.25	1	- 581.25 1 - 670 - 6	<u> </u>	2018	-/.U	RTÉ Ono		
	40	SEGOARD	JEN11707	1 4/1 1	<u></u>	<u>-</u> [n	043.45				043.8 EE3 0		RTÉ Tun		
GLENBEICH	43	SEGDANE 1	- JZN1/U	1 4/5	; <del> </del> ;	造	047.25 	- <u>H</u>			003.8 51 0	-10.0	RTÉ One	-27	
GIENBEIGH	139	9W562	- JZINU41[	1 1	1 <sup>1</sup>	造			5 FAE 25	- 5	6AE 0	-3.2	RTÉ Two	- <u>-</u>	
GLENCAR CO KERRY	42	DIA/E 474	57N/041L		1 1	赤	A70 75		<u>حکردی</u> عد ع <u>مل</u> (	,	ם בקניים	-3,2 _10.0			
GLENCAR CO KERPY	75	- JVV3430	) 52NO114	101	- <u> </u> ] 1	╗	502.20	11	) <u>509</u> 20		509.8			+	
GLENCAR COLEITPIM		RIV:243	J 54N10E4	101	1 1/ 1 1/		615 20	; 11 ; 11	3 671 75	<u>ر</u> با	671 R	_10.0	RTE One	$+\dot{r}$	
GLENCAR COLLETTRIM		RN/232	) 54N1054		2 14	ᇵ		i 11	) 645.75	<u>; </u>	645 8	-10.0	RTÉ TWO		, r
GLENCOLUMBCITTE	+ 42	) 8WA7A	5 54N4227	1 27/	) =	<del>ЧГ</del>	615.75	;	621.25	; 12	621.8	3.0		-37	;
GLENCOLUMBCILLE	- 47	1 8\M/A7/4	5 54N422	1 27		테	510.22 510.22		3 645 75	; 13	645 R	3.0	RTÉ Two	+	, ,
GLENCULLEN		1 6W1224	4 53N1200	1 250		ᆎ	735.75	;	741 75	i -10	741.8	-20.0	RTÉ One	+	, T
GLENCULLEN		6W122	4 53N120	3 250		╦	767 7	;	773.25	-10	773.8	-20.0	RTÉ Two	+-;	,   ,
GLENGAD	+	3 7W102	0 55N1919		<del></del>	ᆎ	777 7	1	733.25		733.8	-10.0	RTÉ One	-37	2
GLENGAD	- 57	7W103	0 55N191	10	5	đν	759.75	11	765.25	;	1 765.8	-10.0	RTE Two	-37	2
GLENISLAND SH		) 9W2404	9 53N575	2 5	5 1	ᆎ	547.75	;	549.29	-1r	1 549.8	-20.0	) RTE One	† 7	
GLENISLAND SH	134	1 9W740	9 53N535	2 5	5 1	ᆎ	575.24	;	581.29	- <u>1</u>	581.8	-20.0	) RTÉ TWO	+	, T
GLENMALURE	130	J 6W193	0 52N561	7 23	5 1	히	543.2	5 10	0 549.25	; 0	549.8	-10.0	RTE One		
	1				- <b>1</b>	1.1		. ~	1						1

## Section 1 - VHF and UHF TV - RTÉ One and RTÉ Two

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新闻1997 · 同時通信//				Site	AN	濕		Vision	Primary	Primary	Secondary	Nicam			
				調	北德		Vision Carrier	LERP.	Sound Frees	Sound ERP	Sound Carrier	Sound ERP	//Service	Electron and a local sector and	臟
station Name		LOUGUING	Latitude	JUI);	·(៣).	D.	erreq:(MHz)		新建築性制度	(onm)		2 (IDRM)	nivame.	15	影
GLENMALURE	34	6W1910	52N5617	236	10	Η	\$75.25	10	581.25	0	581.8	-10.0	RTÉ Two		
GLENNAGEVLAGH	39	9W4010	53N3610	50	10	V	615.25	10	621.25	0	621.8	-10.0	RTE One	1	
	42	9W4010	53N3610	50	10	Ľ	639.25	10	645.25	0	645.8	-10.0	KIE TWO		
GLENTIES	40	8W1902	5414853	175	25	H L	623.25	20	629,25	10	629.8	0.0		+-32	
	43	8W1902	54N4853	1/5	25	臣	647.25	20	653.25	10	b53.8	0.0	RTÉ O-	+	
GOREY	24	614/1548	52N4040	58	12	F	/35.25	10	/41.25	0	/41.8	-10.0	RTÉ T	1 32	N
	30	01412742	521/4040	150	12		/0/.25	10	7/3.25 621.25		(/3.8	-10.0	RTÉ O~~	+-32	
	22	51VZ343	5710041	150	51 10		620.75	1.7	645 JF		EVC 0	-0.0	RTÉ Two	$+-\frac{u}{2}$	
HOLLYFORD	30	810/0620	52N3744	100 100	с тд	H-	03.25 5/3 75	14 D	540.75	-10	045.8 5/0 0	-0.0	RTÉOne		
HOLLYFORD	30	B/WUC2D	57N3744	100		H-	575 PE	0 ^	581 25	-10	543.8 CQ1 D	-20.0 _70 n	RTÉTWO	<u>+-</u>	
HOLYWELCHILL	72	7W7A0E	54N505C	250	د ٦٢	┟╴	22.5 CL	лс. Л	497 25	-10	707.0 707.0	-20.0	RTÉ One	<u>†</u>	
HOLYWELL HILL	26	7W7405	54N5956	260	72	H I	511 25	45	517.25	36	517 R	25.0	RTÉTwo	-37	
INCHIGEELAGH	40	9W0733	51N4958	110	74	V.	623.25		629.25	0	629.8	-10.0	RTÉ One	37	
INCHIGEELAGH	43	9W0733	51N4958	110	24		647.25	10	653.25	0	653.B	-10.0	RTÉ Two	1-0	
INISCLEIRE	54	9W3036	51N2555	50	13	v	735.25	20	741.25	10	741.8	0.0	RTÉ One		<u>a</u> (
INISCLEIRE	58	9W3036	51N2555	50	13	v	767.25	20	773.25	10	773.8	0.0	RTÉ Two		D
INISTIOGE	53	7W0416	52N2847	122	30	Ĥ	727.25	13	733.25	3	733.8	-7.0	RTÉ One	-32	2 N
INISTIOGE	57	7W0416	52N2847	122	30	Н	759.25	13	765.25	3	765.8	-7.0	RTÉ Two		) N
KEIMINEIGH	30	9W1635	51N4939	213	8	Н	543.25	. 0	549.25	-10	549.8	-20.0	RTÉ One		) N
KEIMINEIGH	34	9W1635	51N4939	213	8	Н	575.25	0	581.25	-10	581.8	-20.0	RTÉ Two		N
KELLS Co KERRY	22	10W0629	52N0121	51	12	Н	479.25	14	485.25	4	485.8	-6.0	RTÉ One	-32	2 N
KELLS Co KERRY	25	10W0629	52N0121	61	12	Н	503.25	14	509,25	4	509.8	-6.0	RTÉ Two	-32	2 N
KILBANE	30	8W3308	52N4817	150	6	V	543.25	10	549.25	0	549.8	-10.0	RTÉ One	$\Box$	ם וי
KILBANE	34	8W3308	52N4817	150	6	V	575.25	10	581.25	0	581.8	-10.0	RTÉ Two	+	D I
KILCAR	40	8W3615	54N3745	100	6	Η	623.25	10	629.25	0	629.B	-10.0	RTÉ One	1	n D
KILCAR	43	8W3615	54N3745	100	6	iΗ	647.25	10	653.25	0	653.B	-10.0	RTE Two	<u>\</u>	1 <u>0</u>
KILCAR GLEN	41	8W3547	54N3830	80	6	μн	631.25	10	637.25		637.8	-10.0	HTE One	·  - '	<u>N N</u>
KILCAR GLEN	44	8W3547	54N3830	80	6	H	655.25	10	661.25	0	661.8	-10.0		<u>ٰ</u> ا	<u>  N</u>
KILGARVAN	39	9W2641	51N5217	170	24	H	615.25	14	621.25	4	621.8	-6.0	INTE One		4 D
KILGARVAN	42	9W2641	51N5217	170	24	нH 	639.25	14	645.25	4	645.8	-6.0	RIETWO	' <b> </b> 3;	
	39	10W2000	51N5202	360	60	<u> 1</u> V	615.25	42	621.25	32	621.8	22.0	RIE UNE		<u>,</u> _
	42	10W2000	51N5202	360	60	1 <u>V</u>	639.25	42	. 645.25	32	645.8	22.0	ANTE IWC	, <del>- 3</del> ;	
	54	9W3957	52N3944	61	12	H	/35.25	13	/41.25	3	/41.8	-7.0		+-,	<u>1 N</u>
	1 28	9W3957	521/3944	10	12		1 /6/.25	13	7/3.25	E 1	7/3.8	-7.0	BTÉ On-	+	
KILLALOE	24	aw4511 8\\\\\\	1 JAN4940	107	1	1	22.221 סר דשד	1 20	741.25 772 77	10	741.8	0.0	RTF TWO		-1 IN 2 N
KILLEAGH	12	7\/5020	51N5420	-10 101		-     		20	7/1 72	10	7/1 2	0.	RTÉOne	, <del> _</del> ,	
KILLEAGH		7W5970	51N5670	30	2'	1 H	767 25	20	773.25	10	773.8		RTÉTWO		
KILMACOMMA	1 20	7W4315	52N2120	14	11	<del>,</del>	479 25	12	485.25		485.8	-7.0	RTÉOne	+	
KILMACOMMA	25	7W4315	52N2120	45	11	॑॑॑	503.25	13	509.25		509.8	-7.0			
KILMACTHOMAS	54	7W2520	52N1156	65	41	JV.	735.25	13	741.25	3	741.8	-7.0	RTÉOne		
KILMACTHOMAS	58	7W2520	52N1156	65	40	זע	767.25	13	773.25	3	773.8	-7.0	RTÉTWO	,	
KILPEDDER	- IOE	6W0601	53N0626	91		sн	543.25	1 0	549.25	-10	549.8	-20.0	ATÉ One	;	
KILPEDDER	34	6W0601	53N0626	91		S H	575.25		581.25	-10	581.8	-20.0	RTÉTwo	<del>,       </del>	
KINSALE	29	8W2951	51N4152	33	1 8	sv	535.25	7	· 541.25	-3	541.8	-13.0	) RTÉ One	1	
KINSALE	33	8W2951	51N4152	33	1 1	٩V	567.25	7	· 573.25	-3	573.8	-13.0	RTÉ Two	1	
KIPPURE	1	6W1955	53N1038	750	90	ΰН	183.25	52	2 189.25	42	. 189.8	32.0	RTÉOne	· <b>-</b> 3	2 C
KIPPURE	$\Box$	6W1955	53N1038	750	90	он	207.25	52	213.25	42	213.8	32.0	RTÉ Two	1 <b>3</b>	2 C
KNOCKALAFALLA	55	7W3226	52N2026	165	1	v	743.25		749.25	-10	749,8	-20.0	RTÉOne	:	
KNOCKALAFALLA	65	7W3226	5 52N2026	165	1	οV	823.25		829.25	-10	829.8	-20.0	RTÉ TWO	Ъ	
KNOCKANEDIN	29	10W0519	3 51N5657	180	<u>ו</u>	7 H	535.25	i 10	541.25		541.8	3 -10,0	) RTÉ One	<u>با</u>	
KNOCKANEDIN	35	10W0519	51N5657	180	<u>ال</u>	7 H	583.25	5 10	589.25	· C	589.8	-10.0		<u>`</u>	
KNOCKANORE	39	9W3526	5 52N3131	268	3 21	٥V	615,25	5 32	2 621.25	22	2 621.8	11.0	RTÉ On	:   - <u>3</u> .	2
KNOCKANORE	42	9W3626	5 52N3131	. 268	3 20	٥V	639.25	32	645.25	i <u>2</u> 2	2 645.8	11.8	SIRTÉ TWO	<u>, 1</u>	2
KNOCKGRAFFON	21	7W5628	3 52N2400	80	2	7   <u>v</u>	471.25	i (	477.25	-10 	J 477.8	si -20.0	JRTÉ One	3	<u> </u>
KNOCKGRAFFON	24	7W5628	52N2400	80	<u>]</u>	7 V	495.25	i	501.25	i <u>-10</u>	J 501.E	si -20.0	HRTE TWO	<u>אן 3</u>	2  N
KNOCKMOYLE	53	9W4242	2 52N1238	375	i  5.	s V	727.25	35	733.25	1 23	sj 733.8	13.(	JRTE One	E   E	
	57	9W4242	z 52N1238	375	5	slv	759.25	32	765.25	<u>, 25</u>	sj 765.Ł	រ <u>ា</u>	JRTE TWI	<u>1 3</u>	<u> </u>
LARAGH	41	6W155;	7 53N001C	270	<u>آ ا</u> ر	olh -	631.2	2	J 637.25	2 10	<del>المعامر (637.</del> ٤	sj 0.0	JRTE One	² <b> </b> 3	<u>4                                    </u>
	44	6W155	7 53N001C	1 270	<u>)</u>	OH	655.2	20	u 661.25	<u>, 1(</u>	<u>الم</u>	si 0.t	JRTE TWO	<u>-3</u>	<u>4 N</u>
	55	9W4711	8 51N4453	30	1 1	ZH	743.25	<u>1</u>	4 749.25	<u>'</u>	9 <b>749.</b> Ł	si -6.0	JRTE One	² <b> -</b> ∃	4 0
	59	9W471	51N4453	1 30 1	1	zH	775.2	14	781.25	<u>1</u>	9 <b>781.</b> 1	s -6.t	J RTE TWO	<u></u>	4
	41	9W092	4 51N3425	71	1	21H	631.25	1	637.25	<u>' </u>		-7.l	JRIEON	<u>-</u>	4 5
LEAP	44	9W0924	4 51N3425	71		비	655.2	1:	of 1.25	1	561.8	-7.1	JINTETWI	·  3	<u>4 - </u>
LEENAUN	21	9W4143	1 53N3535	i 4t	1	8 V	471.2	5 <b>  1</b> 2	3j 477.25	ין <u>י</u>	sį 477.8	s¦ -7.l	JI K TE Oria	२   ५	օլ ն

## Section 1 - VHF and UHF TV - RTÉ One and RTÉ Two

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				Site	Anti			Visión	Primary	Rrimary	Secondary (	-Nicam	· 11日 - 11日 - 11日 - 11日 - 11日		
Station Name	Ċh	Longitude	Latitude		品版 (m)	0.02	Vision Carrier Freq. (MHz)	(dBW)	Sound Freq: (MHz)	(dBW)	Freq (MHz)	(dBW)	aervice: Nameu		뾃
LEENAUN	24 24	9W4141	53N3535	anna) 46	36 18	™ v I	495.25	13	501.25		501.8	-7.0	RTÉ Two		英回望 D
LEHINCH	40	9W2223	52N5932	207	40	v	623.25	20	629.25	10	629.B	0.0	RTÉ One	-3Z	
LEHINCH	43	9W2223	52N5932	207	40	v	647.25	20	653.25	10	653.8	0.0	RTÉ Two	-32	D
LETTERKENNY	52	7W3739	54N5321	230	80	v	719.25	37	725.25	27	725.8	17.0	RTÉ One	-32	N
LETTERKENNY	56	7W3739	54N5321	230	80	V	751.25	37	757.25	27	757.8	17.0	RTÉ Two	-32	N
LISSCARRIGANE	40	9W0440	51N5805	250	10	н	623.25	10	629.25	0	629.8	-10.0	RTÉ One	0	D
LISSCARRIGANE	43	9W0440	51N5805	250	10	Ĥ	647.25	10	653.25	0	653.8	-10.0	RTÉ Two	0	
LISSYCLEARIG	29	9W3908	51N5433	165	8	V	535.25	3	541.25	-7	541.8	-17.0	RTE One	0	
LISSYCLEARIG	33	9W3908	51N5433	165	8	V.	567.25	E	573.25	-7	573.8	-17.0	KTE TWO		<u>                                      </u>
	53	9W2750	52NZ736	90	35	H U	727.25	20	/33.25	10	733.8	0.0	KIE URE	32	
	10	9W2/50	51NE107		35 	÷	759.25	2U	25.20 5,11 JE	10	/05.8 EA1 0	0.0	RTÉ Ope	32	
IOMANAUGH	27	910/2015	51N53237	31		ц Н	567 20	ں م	573 75	-10	344-0 573 Q	-20.0	RTÉ Two		
LOUGHTALT SH	63	8W5719	54N0553	175	10	v	807.25		813.25	-10	813.8	-20.0	RTÉOne		
LOUGHTALT SH	67	8W5719	54N0553	175	10	v	839.25	0	845.25	-10	845.8	-20,0	RTÉ Two		
MAAM	21	9W3400	53N3113	35	15	н	471.25	13	477.25	3	477.8	-7.0	RTÉ One		
MAAM	24	9W3400	53N3113	35	15	н	495.25	13	501.25	3	501.8	-7.0	RTÉ Two	-32	N
MAAMCLASSACH	40	10W2535	52N0832	200	25	٧	623.25	23	629.25	13	629.8	0,E	RTĚ One		N
MAAMCLASSACH	43	10W2535	52N0832	200	25	۷	647.25	23	653.25	13	653.8	3.O	RTÉ TWO	32	N
MACROOM	62	8W5742	51N5353	152	20	н	799.25	17	805.25	7	805.8	-3.0	RTÉ One	0	D D
MACROOM	65	8W5742	51N5353	152	20	Н	823.25	17	829.25	7	829.8	-3.0	RTÉ Two	0	D
MAGHERA		8W4308	52N5803	400	60	۷	183.25	53	189.25	43	189.8	0.EE	RTÉ One		
MAGHERA		8W4308	52N5803	400	60	۷	207.25	53	213.25	43	213.8	33.0	RTÉ Two	-32	
MALIN	22	7W1733	55N1931	183	35	н	479.25	33	485.25	23	485.8	13.0	RTE One	32	
	25	7W1733	55N1931	183	35	н	503.25	33	509.25	23	509.8	13.0	KIE TWO	32	
	29	8W1854	51N5232	60	25	V	535.25	21	541.25	11	241.8	1.0	RTÉ Tura	_ L	
MEENACREEVA	66    176	0VV 1854	5500240	145		μ	549 72	21	בא.ג/ב פר פאס	11 	5/5/5	- <u>70 0</u>	RTÉ One	-34	
MEENACRFFVA	100	SWU215 RWU215	55N0210	145		н	575 25		581.25	01-	581 R	-20.0	RTÉ Two		
MEENACUING	30	8W0854	55N0154	107	5	Н	543.25		549.25	-10	549.8	-20.0	RTÉ One	+	) N
MEENACUING	34	8W0854	55N0154	107	5	H	575.25	0	581.25	-10	581.8	-20.0	RTÉ Two		) N
MITCHELSTOWN	41	8W1823	52N1842	330	40	v	631.25	30	637.25	20	637.8	10.0	RTÉ Оле	32	
MITCHELSTOWN	44	8W1823	52N1842	330	40	v	655.25	30	661.25	20	661.8	10.0	RTÉ Two	-32	2 D
MONAGHAN / LUGAD	$\square$	7W0143	54N1106	214	30	н	175.25	32	181.25	22	181.8	12.0	RTÉ One	38	3 N
MONAGHAN / LUGAD		7W0143	54N1106	214	30	н	191.25	32	197.25	22	197.8	12,0	RTÉ Two	-20	) N
MONASOOTAGH	54	6W2757	52N3909	130	15	н	735.25	14	741.25	4	741.8	-6.0	RTÉ One	-32	2 D
MONASODTAGH	58	6W2757	52N3909	130	15	H	767.25	14	773.25	4	773.8	-6.0	RTÉ Two	37	2 0
MORLEY'S BRIDGE	29	9W2255	51N5423	180	5	H	535.25	0	541.25	-10	541.8	-20.0	RTÉ One	(	N
MORLEY'S BRIDGE	33	9W2255	51N5423	180	<u>1</u>	H	567.25	<u> </u>	573.25	-10	573.8	-20.0	HIETWO	<u> </u>	ע ע ע
MOSSY GLEN		7W0107	1 55N1502	165	12	<u>الا</u>	727.25	<u>7</u>	733.25	-3	733.8	-13.0	IN LE UNE	37	2 N 1 N
MOUNT CARDIEL	57	/w0107	55N1502	165		1 1 1	/59.25	/	105.25	נ- רי	8,20/ 0 573 0	-±3.0	RTÉ TWO	1 1	
	66	DW3229	51113320	418	1 10		567.25		572 25	23	573.8	13.0	RTÉ Two		
MOUNT GABRIEL HP	70	9W3229	51N3320		11	<del>] </del>	535.25		541.25	23	541.8	13.0	RTÉ One	-33	
MOUNT GABRIEL VP	29	9W3229	51N3320	418	11	i v	535.25	33	541.25	23	541.8	13.0	RTÉ One	-33	2 0
MOUNT LEINSTER	+	6W4643	52N3706	796	107	柼	191.25	54	197.25	44	197.8	33.6	RTÉ One	32	2 0
MOUNT LEINSTER	+	6W4643	52N3706	796	107	t	215.25	54	221.25	44	221.8	33.6	RTÉ Two	3:	2 0
MOUNT LEINSTER LP	29	6W4643	1 52N3706	796	.64	त्तम	535.25	20	541.25	10	541.8	0.0	RTÉ One	1	
MOUNT LEINSTER LP	33	6W4643	52N3706	796	64	н	567.25	20	573.25	10	573.8	0.0	RTÉ Two	(	ם נ
MOUNTAINSTAGE	22	9W5723	52N0101	200	11	н	479.25	10	485.25	0	485.8	-10.0	RTÉ One	(	N C
MOUNTAINSTAGE	25	9W5723	3 52N0101	200	1	5 H	503.25	10	509.25		509.8	-10.0	RTÉ Two		) N
MOVILLE	40	7W0104	1 55N1315	320	3!	5H	623.25	EE	629.25	23	629.8	13.0	RTÉ One	(	
MOVILLE	43	7W0104	1 55N1315	320	3	5 H	647.25	33	653.25	i  23	653.8	13.0	RTE Two	3	2  C
WULLAGHANISH	-	9W0844	+ 51N5854	650	141	ηV -	175.25	54	181.25	44	181.8	33.6	INIE ONE		
	+	9W0844	+ 51N5854	+ 650	141	<mark>۱</mark> ۷	199.25	54	*i 205.25	44	205.8	n <mark>  33.6</mark> 1 − −	INTÉ O	3	<u>- </u>
	55	9W4844	1 S2NE 427	152		ᇤ	/43.25	13	/49.25	1 3	749,8	-/.0 1 - 7 - 10	RTÉ TOUR	3	
	+==	FINIATO		1 152		- 14	742.25	1.	/61.25		۲۵۱.٤ ۱ ۲۸۰ ۹	-/.u	RTF OF	+	
NEWBALIN	- 25	6\\/470C	) 521/2045			-14 310	745.25	; <b></b> ,	) 920 70 749.25	-1 -1L ;  _1/	745.0 0 0 C Q	-20.0	RTÉ Ture	·'	
NIRE VALLEY	71	7\/12016	57N1701	1 720	;	카	A71 25		023,25 1 <u>0</u> 77 75	-10	Δ29.2 1 Δ77 0	-20.0	RTÉ One		2 1
NIRE VALLEY	24	7W3816	52N170	230		क्री	495.25		501.25	4	501.8	3 -6.0	RTÉ TWO	3	2 0
RECESS	54	9W4353	3 53N2737	70	<del> </del>	巿	735.25	; <del> </del> c	741.25	-10	741.8	-20.0	RTÉ One	-3	2 1
RECESS	58	9W4353	3 53N2737	7 70		лн	767.25		773.25	-10	) 773.8	3 -20.0	RTE TWO	3	z n
RINVYLE	53	10W0145	5 53N3624	1 10	1	<del>s</del> tr	727.25		733.25	-10	) 733.8	-20.0	RTÉ One		
RINVYLE	57	10W0145	5 53N3624	1 10	1	slv	759.25	; c	765.25	5 -10	765.8	-20.0	RTÉ TWO		
ROSSCARBERY	53	9W0152	2 51N340 <del>0</del>	5 52	2 3	о н	727.25	<u>; 17</u>	7 733.25	; <del>7</del>	7 733.8	-3.0	RTÉ One		

## Section 1 - VHF and UHF TV - RTÉ One and RTÉ Two

Page 6 of 16

				Site	Ant		Vision	Primany	Primary	1 Secondary	Nicam			
Station Name	ich.	Longitude	Latitude	出し (m)	出现。 (m) 词	Vision Carrier Freqz (MHz)	CERP-0 (dBW))	Sound Freq. (MHz)	Sound ERP. (dBW)	Sound Carrier. Ereq!(MHz):-:	Sound ERP	Name	offset	
ROSSCARBERY	57	9W0152	51N3406	52	30 H	759.25	17	765.25	7	765.8	-3.0	RTÉTwo	-32	D
SHANAFARAGHAUN	39	9W3011	53N3434	60	6 V	615.25	10	621.25	0	621.8	-10.0	RTÉ One	0	N
SHANAFARAGHAUN	42	9W3011	53N3434	60	6 V	639.25	10	645.25	0	645.8	-10.0	RTĖTwo	0	N
SLIGO TOWN	41	8W2709	54N1507	125	30 V	631.25	23	637.25	13	637.8	3.0	RTĖOne	-32	D
SLIGO TOWN	44	8W2709	54N1507	125	V DE	655.25	23	661.25	13	661.8	3.0	RTÉTWO	32	D
SPUR HILL	53	8W3100	51N5121	137	30 H	727.25	40	733.25	ЗD	733.8	20.0	RTÉ One	0	D
SPUR HILL	57	8W3100	51N5121	137	30 H	759.25	40	765.25	30	765.8	20.0	RTÉTwo	-32	D
SRAHMORE	30	9W3545	53N5606	90	5 H	543.25	0	549.25	-10	549.8	-20.0	RTÉ One	0	N
SRAHMORE	34	9W3545	53N5606	90	5 H	575.25	D	581.25	-10	581.8	-20.0	RTÉ Two	0	N
SUIR VALLEY	53	7W1546	52N2224	280	45 V	727.25	36	733.25	26	733.8	16.0	RTÉOne	0	D
SUIR VALLEY	57	7W1546	52N2224	280	45 V	759.25	36	765.25	26	765.8	16.0	RTÉTwo	-32	ם
TERMON	54	7W5116	55N0305	120	15 H	735.25	13	741.25	3	741.8	-7.0	RTÉ One	32	N
TERMON	58	7W5116	S5N0305	120	15 H	767.25	13	773.25	E	773.8	-7.0	RTÉ Two	-32	N
THE GLEN	29	8W1309	54N4753	150	5 V	535.25	0	541.25	-10	541.8	-20.0	RTÉОле	0	N
THE GLEN	33	8W1309	54N4753	150	5 V	567.25	0	573.25	-10	573.E	-20.0	RTÉTwo	0	N
THREE ROCK	29	6W1411	53N1449	448	60 H	535.25	44	541.25	34	541.8	24.0	RTÉ One	-32	D
THREE ROCK	33	6W1411	53N1449	448	60 H	567.25	44	573.25	34	573.8	24.0	RTÉTwo	0	D
TIMOLEAGUE	29	8W4505	51N3719	89	10 V	535.25	10	541.25	0	541.8	-10.0	RTÉ One	0	N
TIMOLEAGUE	33	8W4505	51N3719	89	10 V	567.25	10	573.25	0	573.8	-10.0	RTÉ Two	0	N
TINAHELY	30	6W2810	52N4805	107	12 V	543.25	13	549.25	3	549.8	-7.0	RTÉ One	0	D
TINAHELY	34	6W2810	52N4805	107	12 V	575.25	13	581.25	3	581.8	3 -7.0	RTÉTwo	0	D
TOMRILAND	21	6W1242	53N0056	200	12 V	471.25	10	477.25	0	477.8	3 -10,0	RTÉ One	32	D
TOMRILAND	24	6W1242	53N0056	200	12 V	495.25	10	501.25	0	501.8	3 -10,0	RTÉTwo	32	P
TOOMES BRIDGE	41	9W0509	51N5205	110	5 H	631.25	i 13	637.25	3	637.8	3 -7,0	RTÉ One	-7	Ň
TOOMES BRIDGE	44	9W0509	51N5205	110	5 H	655.25	13	661.25	3	661.8	3 -7.0	RTÉ Two	-7	N
TRACTON / MINANE	48	8 8W2251	51N4504	61	5	687.25	5 O	693.25	-10	693.1	3 -20.0	RTÉ One	0	N
TRACTON / MINANE	52	2 8W2251	51N4504	61	5 H	719.25	i 0	725.25	-10	725.1	3 -20.0	RTÉ Two	0	N
TRUSKMORE		8W2259	54N2225	640	80 H	215.25	5 54	221.25	44	221.8	3 34.5	RTÉ One	-32	
TRUSKMORE		8W2259	54N2225	640	80 H	199.25	54	205.25	44	205.0	8 34.5	RTÉ Two	-32	D
WEST PORT	54	1 9W3109	53N4745	60	12	735.25	5 15	741.25	5	741,1	B -5.2	RTÉ One	32	N
WEST PORT	58	3 9W3109	53N4745	60	12 H	767.2	5 15	773.25	5	i 773.	B -5.2	RTÉTWO	-32	N
WOODCOCK HILL	39	9 8W4122	52N4311	244	55 F	615.25	5 33	621.25	23	621.	8 13.0	RTÉ One	32	D
WOODCOCK HILL	4	2 8W4122	52N4311	244	55 H	639.2	5 33	645.25	25	645.	8 13.0	RTÉTWO	-32	
WOODENBRIDGE	3	6W1420	52N4940	61	10 \	543.2	i 10	549.25		549.	8 -10.0	RTÉOne	0	
WOODENBRIDGE	34	4 6W1420	52N4940	61	10 \	575.2	5 10	581.25		581.	8 -10.0	RTÉTWO	0	
YOUGHAL STRAND	29	9 7W5126	51N5610	15	15 H	535.2	5 7	541.25	i	541.	8 -13.0	RTEOne	-32	
YOUGHALSTRAND	3.	3 7W5126	51N5610	15	15	567.2	5 7	<u>573.25</u>	<u> </u>	573.	8 -13.0	INIEIWO		

Dart II						- 1	Sect	ion 2	<b>N</b> -1	HF/	ЪН	Hor	zon	al R	adia	tion	Res	trict	ions	ľ	D E	ne F	E I	Ň									БЧ	- 9		ο.
	Masenvice M	A PERSON									調整語	調整		1 Pile						50 10 10 10				10 10	60 F	50	60 6 10	即	100	(j) 1	ha0	80	60 50	-60	iaU.	
station/lame:	Name#	10. 70, 5	IV. OT	07 (	0ÊĴ	06 g	05	(137) 093	022		06.9				瀫			ste Zte	GLS 97-	025	國							87) 193	72. 1			100 H	100			
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BALLINGLEN	RTÉ Two	0	0.4	1.5	FT.	ί	8	12	16	20	24	26	26	36 ZL	5 26	26	26	26	26	192	57 19	5	2	2	19		12	24	2	16 12		л	m	1.5	5	
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BALLINTRILLICK	RTÉ Two	<u>تر</u>	S	5	5	0		0	0	0	•	0	D	-	0	0	-	0	0	╺╴	0	_	_	-	0	0	╡	0	-	-	10	un .	5	n j		
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Part II						Se	ction	1-2	/HF/	ΉN,	IPH :	rizor	ital F	Radi	atior	Res	trict	ion	2		ne f	E E	<u>Mo</u>									98e 98e	5	Ηľ
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