

**Standard Radio System Plan**

# **REQUIREMENTS FOR DIGITAL TRUNKED RADIO SYSTEMS (DTRS) OPERATING IN THE FREQUENCY BAND OF 410 MHz TO 430 MHz**



**Suruhanjaya Komunikasi dan Multimedia Malaysia**  
Malaysian Communications and Multimedia Commission  
Off Persiaran Multimedia,  
63000 Cyberjaya, Selangor Darul Ehsan, Malaysia  
Tel: +60 3 8688 8000 Fax: +60 3 8688 1005  
Website: <http://www.skmm.gov.my>

## TABLE OF CONTENTS

<b>1.0 GLOSSARY</b>	<b>4</b>
<b>2.0 INTENT</b>	<b>5</b>
<b>3.0 GENERAL</b>	<b>5</b>
<b>4.0 CHANNELLING PLAN</b>	<b>7</b>
<b>5.0 REQUIREMENTS FOR USAGE OF SPECTRUM</b>	<b>8</b>
<b>6.0 PRINCIPLES OF ASSIGNMENT</b>	<b>9</b>
<b>7.0 IMPLEMENTATION</b>	<b>12</b>
<b>8.0 COORDINATION REQUIREMENT</b>	<b>12</b>
<b>9.0 REVOCATION</b>	<b>13</b>
<b>10.0 REFERENCES</b>	<b>13</b>
<b>APPENDIX A: EXTRACT OF SPECTRUM PLAN</b>	<b>14</b>
<b>APPENDIX B: CHANNELLING PLAN (12.5 kHz AND 6.25 kHz)</b>	<b>15</b>
<b>APPENDIX C: CHANNEL BANDWIDTH ARRANGEMENTS (25, 12.5 AND 6.25 kHz)</b>	<b>31</b>
<b>APPENDIX D: CHANNELLING ALLOTMENT PLAN (12.5 kHz AND 6.25 kHz)</b>	<b>32</b>
<b>APPENDIX E: DEFINED GEOGRAPHIC AREA</b>	<b>34</b>
<b>APPENDIX F: ERLANG C TABLE</b>	<b>35</b>
<b>APPENDIX G: LIST OF ANALOGUE TRS SERVICE PROVIDERS IN THE 800MHz BAND &amp; THE NUMBERS OF AA HELD (EXTRACTED FROM SRSP 502M) AT THE IMPLEMENTATION OF INBAND MIGRATION TO DIGITAL IN JULY 2006</b>	<b>38</b>

<b>APPENDIX H: CONDITIONS OF AA</b>	<b>39</b>
<b>APPENDIX I: SPECTRUM ALLOCATION FOR DIGITAL TRUNKED RADIO (MALAYSIA/BRUNEI/SINGAPORE)</b>	<b>40</b>
<b>APPENDIX J: SPECTRUM ALLOCATION FOR DIGITAL TRUNKED RADIO (MALAYSIA/THAILAND)</b>	<b>41</b>
<b>APPENDIX K: INTERFERENCE RESOLUTION PROCESS</b>	<b>42</b>

## **1.0 GLOSSARY**

- 1.1 The terms used in this document may be found in the document SRSP Glossary which can be downloaded from the Commission's website.  
[\(http://www.skmm.gov.my/skmmgovmy/files/attachments/SRSPGlossary.pdf\)](http://www.skmm.gov.my/skmmgovmy/files/attachments/SRSPGlossary.pdf)

# **REQUIREMENTS FOR DIGITAL TRUNKED RADIO SYSTEMS (DTRS) OPERATING IN THE FREQUENCY BAND OF 410 MHz TO 430 MHz**

## **2.0 INTENT**

- 2.1 In general, Standard Radio System Plan SRSP is a document designated to provide information on the minimum requirements in the use of a frequency band as described in the Spectrum Plan (see **Appendix A**). It provides information on technical characteristics of radio systems, frequency channelling, coordination initiatives in order to maximise the utilisation, minimise radio frequency interference and optimise the usage of the spectrum. It is intended to regulate the usage of spectrum and does not attempt to establish any detailed equipment standards.
- 2.2 This SRSP states the requirements for the utilisation of the frequency band between 410 MHz to 430 MHz ('the said band') for Digital Trunked Radio Systems (DTRS) in Malaysia.
- 2.3 DTRS are two-way mobile radio systems consisting of mobile terminals, multiple-channel base stations and control stations. Trunking is the pooling of radio channels of a DTRS , whereby users have automatic access to all channels of the system. DTRS Systems may also have roaming capabilities and permits Direct Mode Operation (DMO) between mobile terminals.
- 2.4 DTRS applications include transmission of voice, data, image, paging, short messaging, facsimile and PSTN interconnection for users such as transport companies, service and maintenance companies, airlines services and government agencies. The intended users of the said band may be operators of public DTRS networks as well as private organisations/ corporation or government agencies. The operation of DTRS systems may be area based or of nation-wide roaming capabilities.

## **3.0 GENERAL**

- 3.1 The technical characteristics of equipment used in DTRS shall conform to all applicable technical standards which may include the mandatory standards, technical codes, Malaysian standards, international standards, International Telecommunications Union (ITU) recommendations and its Radio Regulations as well as other standards as agreed and adopted by Malaysia.
- 3.2 The installation of all DTRS shall comply with safety rules as specified in the applicable Malaysian standards.

- 3.3 The equipment used shall be certified under the Communications and Multimedia (Technical Standards) Regulations 2000.
- 3.4 The allocation and allotment of the said band and the information in this SRSP are subject to review from time to time to reflect new developments in the communications and multimedia industry.
- 3.5 The following is an overview of some DTRS technologies in the industry:

#### 3.5.1 TETRA

TETRA (Terrestrial Trunked Radio) is a standard developed by the European Telecommunications Standards Institute (ETSI). The purpose of the TETRA standard is to meet the needs of various Professional Mobile Radio (PMR) user organizations. The first version of TETRA standard was published in 1995.

TETRA is based on a 4-slot TDMA (Time Division Multiple Access) with 25 KHz physical radio channel bandwidth. TETRA standard supports trunking mode and IP-based TETRA solutions are available.

TETRA 2 is the enhancement of the TETRA standard which provide improvement on data speed and voice codec. TETRA 2 has introduced TETRA Enhanced Data Service (TEDS) which offers higher data rates utilizing multiple bandwidths and modulation schemes. The TEDS offers 4 different RF channel bandwidths of 25 kHz, 50 kHz, 100 kHz and 150 kHz.

#### 3.5.2 APCO-P25

APCO-P25 (Association of Public-Safety Communications Officials – Project 25) is a common standard for Digital Trunked Radio Systems used by public safety agencies in North America to enable them to communicate with other agencies and mutual aid response teams in emergencies.

APCO-P25 is based on FDMA (Frequency Division Multiple Access) capable of operating in 12.5 kHz and/or 25 kHz physical radio channel bandwidths. This standard allows backward compatibility with analogue systems and supports both trunked and conventional operation models. IP based APCO-P25 solutions are also available.

#### 3.5.3 APCO-P25 Phase 2

The APCO-P25 standard (also known as APCO-P25 Phase 1) is further improved on spectrum efficiency with the development of APCO-P25 Phase 2 using 2-slot TDMA scheme.

### 3.5.4 NXDN

NXDN is a digital air interface protocol for mobile communication. It was developed jointly by Icom Incorporated and Kenwood Corporation. This standard is based on FDMA (Frequency Division Multiple Access) and defines both trunked and conventional modes of operation.

NXDN is a digital radio communications protocol using 4-Level FSK (4LFSK) modulation capable of fitting into both 12.5 kHz and 6.25 kHz physical radio channel bandwidths (9600 bps and 4800 bps respectively).

### 3.5.5 DMR

DMR (Digital Mobile Radio) is a standard developed by the European Telecommunications Standards Institute (ETSI) under its Electromagnetic compatibility and Radio spectrum Matters (ERM). The standard (ETSI TS 102 361) is based on a two-slot TDMA protocol. DMR applies TDMA method of spectral efficiency where 12.5 kHz channel will be divided into two equivalent time slots. The DMR design is capable to support trunked radio networks range from 12.5 kHz physical radio channel to wide area systems incorporating multiple physical radio channels extended over many radio sites. It provides a migration path from analogue to digital with its ability to operate in both analogue and digital modes.

## 4.0 CHANNELLING PLAN

- 4.1 This SRSP defines the said band providing a total bandwidth of 20 MHz for the DTRS.
- 4.2 The channel arrangements are divided into 4 pairs of frequency blocks (block A/A', block B/B', block C/C', and block D/D') with transmit/receive separation of 10MHz.
- 4.3 The 12.5 kHz channelling plan is the standard channelling plan for the said band giving a total of 800 physical radio channels.
- 4.4 Although the standard channel spacing is 12.5 kHz, it provides flexibility to operate two or more contiguous channels of 12.5 kHz. Operators may also utilize smaller channel bandwidth of 6.25 kHz channel spacing. The Commission shall assign a single channel based on channel spacing of 6.25 kHz, 12.5 kHz or combination of multiple channels of 12.5 kHz channel spacing. The channelling plan for 6.25 kHz and 12.5 kHz is shown in **Appendix B** and the general channelling arrangement for 25 kHz, 12.5 kHz and 6.25 kHz is shown in **Appendix C**.
- 4.5 Channels shall be allotted according to the channel allotment plan in **Appendix D**.

Assignment of channels for areas of operation near the borders with Brunei, Singapore, Indonesia and Thailand will be based on the regional frequency blocks allotted. However, all four regional blocks will be available for national use for the rest of the country.

- 4.6 The channel allotment plan is designed to minimise inter-modulation and frequency interference problems by assigning co-sited channels that are 250 kHz apart. The frequency blocks A/A', B/B' and C/C' each containing 200 channels and frequency block D/D' containing 196 channels of 12.5 kHz, are divided into ten (10) sub-blocks (i.e. A01-A10, B01-B10, C01-C10 and D01- D10) respectively.
- 4.7 Channels are assigned based on the three (3) defined geographic areas as in **Appendix E** (Sabah or Sarawak or Peninsular Malaysia). Co-location assignments will be by sub-blocks (or part thereof) of up to a maximum of twenty (20) channels within the same sub-block per DTRS base/repeater station. The number of channels/sub-blocks assigned will be based on the service requirement of the operator and to be determined by the Commission.

## 5.0 REQUIREMENTS FOR USAGE OF SPECTRUM

- 5.1 This SRSP covers the minimum key characteristics considered necessary in order to make the best use of the available frequency band.
- 5.2 Capacity enhancing techniques are continually being developed. This SRSP allows for the adoption of such techniques for more efficient use of spectrum, without reducing quality of service. Good cell-planning practice and frequency reuse should be adopted to maximise spectrum usage.
- 5.3 Maximum radiated power:
  - 5.3.1 DTRS base station transmissions shall not exceed +27 dBW Effective Radiated Power (ERP);
  - 5.3.2 On a case to case basis, higher ERP may be permitted if acceptable technical justification is provided;
  - 5.3.3 DTRS mobile station transmissions shall not exceed 25 W Effective Isotropic Radiated Power (EIRP). The mobile station shall comply with the technical specifications set under "*Technical Specification for Land Mobile Radio Equipment*" and the Class Assignment ; and

- 5.3.4 Different ERP for DTRS base station transmission may be applied at the common border areas according to the agreement reached between Malaysia and the neighbouring countries.
- 5.4 Channel loading of DTRS should be such that the maximum use is made of the available spectrum while providing reasonable Grade of Service (GOS). This SRSP requires the loading of public and private systems to be such as to provide a GOS of not exceeding 5%.
- 5.5 The Erlang C model will be used as a guide to assess the channel needs of the applicant. This model is adopted as the reference as it assumes that the system will queue a certain number of blocked calls. The GOS will be defined by a specified delay, in message lengths, such that delayed calls will not exceed the specified delay with a probability P(t) of 0.05 (5%). That is, 95% of the calls placed will not be delayed by greater than the specified delay. An Erlang C table is provided in **Appendix F** for reference.
- 5.6 The GOS is critical for emergency services as well for local government agencies. The corresponding GOS for public safety systems (e.g., police, ambulance and fire department) is 2.5%. However, the level of GOS may be changed if deemed necessary by the Commission based on specific service requirements.
- 5.7 Users shall note the possibility of interference to Active Medical Implant equipment operating in the band of 402 MHz to 405 MHz and Radio Frequency Identification Device (RFID) in the band of 433 MHz to 435 MHz and shall take additional precautionary measures when operating in close proximity to such devices/equipment.
- 5.8 The allocations of spectrum and shared services within the said band can be found in the Spectrum Plan shown in **Appendix A**.

## 6.0 PRINCIPLES OF ASSIGNMENT

- 6.1 Authorisations to use the said band for the DTRS base station apparatus and the trunked radio access device are as follows:
- 6.1.1 Apparatus Assignment ('AA') for DTRS base station apparatus; and
- 6.1.2 Class Assignment ('CA') for trunked radio access device. The applicants are required to comply with any notification of CA issued pursuant to Section 169 of the Communications and Multimedia Act 1998 ('the Act') which confers rights on any person to use any frequency band or bands for the specified devices.

6.2 The eligibility, information and documents to be submitted for the AA application are as follows:

6.2.1 Spectrum blocks A, B and C

6.2.1.1 Network Facilities Provider Individual (NFP(I)) licence that allows radiocommunication transmitters and links (Note: Priority on the usage of these blocks are for migration of the current analogue TRS service providers listed in **Appendix G**).

6.2.1.2 The applicant shall:

6.2.1.2.1 Submit a Detailed Business Plan (DBP) based on wholesale model and defined geographic area (**Appendix E**) including details of the roll out and digital migration plan acceptable by the Commission;

6.2.1.2.2 Upon the approval of the DBP by the Commission, submit application for an AA in accordance with the geographical region(s) specified in the DBP; and

6.2.1.2.3 Prior to the issuance of the AA, provide to the Commission an Irrevocable Bank Guarantee (IBG) to guarantee performance and compliance with the conditions of the AA and the DBP, payable on demand, either in part or in full, for the amount of RM 50,000 (Ringgit Malaysia Fifty Thousand) for Area 1 (Peninsular Malaysia), RM 30,000 (Ringgit Malaysia Thirty Thousand) for Area 2 (Sabah and Wilayah Persekutuan Labuan) and/or RM 30,000 (Ringgit Malaysia Thirty Thousand) for Area 3 (Sarawak), from a licensed financial institution in Malaysia in the form and substance agreed by the Commission.

6.2.1.3 The IBG:

6.2.1.3.1 Shall start on the 1 January of every year;

6.2.1.3.2 Shall be valid for the period of 15 months; and

6.2.1.3.3 Shall be provided until the final year of the roll out in accordance to the DBP.

6.2.1.4 The finalised size of spectrum made available on geographic region basis to the applicant shall be based on the principle of:

- 6.2.1.4.1 the percentage of analogue Trunked Radio System (TRS) AA held as in **Appendix G**;
- 6.2.1.4.2 the need of the technology of choice; and
- 6.2.1.4.3 spectrum allocation efficiency.

6.2.1.5 The application for an AA shall be based on the committed roll out plan as specified in the DBP. For spectrum which are not utilised or underutilised or not covered by the roll out plan, the Commission may allow other NFP (I) licensees to apply for an AA.

6.2.1.6 AA issued to successful applicant shall be subject to further additional conditions specified in **Appendix H**.

## 6.2.2 Spectrum Block D

6.2.2.1 Private network facility (Private corporation/companies) for their own offshore/inland private use only and government [Note: This block is set aside for migration of existing private networks and government users in the 800 MHz as well as for new users].

- 6.3 Applicants are required to submit AA application for the apparatus on the prescribed AA form.
- 6.4 The AA for the said band shall be valid for a period of five (5) years or such lesser period as specified in the AA. AA holders may re-apply for a new assignment at least sixty (60) days before the expiry date.
- 6.5 Issuance of an AA is also subject to successful co-ordination among assigned stations and with neighbouring countries where it applies.
- 6.6 Other than the spectrum blocks/sub-blocks reserved for migration, the AA shall be assigned on a first come first served basis. In the event of unavailability of spectrum, applicants will be placed in the queue that will be reviewed periodically.
- 6.7 To further facilitate planning and efficiency in spectrum management, upon successful application the NFP(I) licence holder shall be allocated with the specific spectrum sub-block(s) (**Appendix D**) in the defined geographic area as in **Appendix E** of this document. Such arrangements are only for administrative or spectrum management

purposes in order to facilitate the NFP(I) licensees in their roll out planning in the defined geographic region.

## **7.0 IMPLEMENTATION**

- 7.1 This SRSP shall be effective from the date of issuance of this document.
- 7.2 The reservation of the spectrum blocks for the migration of the listed operators in **Appendix G** and TRS users in Block C of the 800 MHz band will be upheld up to December 2015. The unused blocks shall be opened to others on a first come first served basis.

## **8.0 COORDINATION REQUIREMENT**

- 8.1 Use of the said band shall require coordination with Malaysia's neighbouring countries within the following coordination zones:
  - 8.1.1 Within 50 kilometres of Malaysian border with FACSMAB (Frequency Assignment Committee of Singapore, Malaysia and Brunei Darussalam) member countries; and
  - 8.1.2 Within 30 kilometres of the Malaysian border with Thailand.
- 8.2 The shared use of the said band between Brunei Darussalam, Malaysia, Singapore and Thailand for DTRS at the common border areas has been agreed as shown in **Appendix I** and **Appendix J**.
  - 8.2.1 For Thailand, maximum permissible level of interference are as follows:
    - 8.2.1.1 Signal strength of -85 dBm; measured at 5 km from the border at 1.5 m above the ground level; and
    - 8.2.1.2 C/I value of 18 dB.
- 8.3 Noting that these coordination distances are continuously being reviewed by the border committees, the coordination distances may be updated from time to time. As such, the Commission reserves the right to reassign the affected frequency channels at border coordination areas.
- 8.4 In the event of any interference, the Commission will require the affected users to carry out an operator-to-operator coordination. In the event that the interference remained unresolved after 24 hours by the operators, the affected parties may escalate the matter to

the Commission for a resolution. The Commission will determine the necessary modifications and schedule of modifications to resolve the interference. The Commission will be guided by the interference resolution process as shown in **Appendix K**.

## 9.0 REVOCATION

9.1 SKMM SRSP-537, 14 July 2010 issue is hereby revoked.

## 10.0 REFERENCES

- [1] SKMM WTS LMR Rev.1.01:2007
- [2] UK Radio Interface Requirement 2004, Private Business Mobile Radio (TETRA)
- [3] <http://www.apcoinyl.org/frequency/project25/>. Comprehensive APCO25 Information and Website
- [4] ETSI Standard EN 300 394-1 v3.2.1 (2012-10)
- [5] Recommendation ITU-R M.1808

Issued by:



**Suruhanjaya Komunikasi dan Multimedia Malaysia**  
Malaysian Communications and Multimedia Commission

## APPENDIX A: EXTRACT OF SPECTRUM PLAN

(This Appendix forms an integral part of the SRSP document)

Frequency Band (MHz)	ITU Allocations			Malaysia Allocations
	Region 1	Region 2	Region 3	
410-420	FIXED  MOBILE except aeronautical mobile  SPACE RESEARCH (space-to-space) 5.268			FIXED  MOBILE except aeronautical mobile MLA37  SPACE RESEARCH (space-to-space) 5.268  MLA3 MLA93
420-430	FIXED  MOBILE except aeronautical mobile  Radiolocation  5.269 5.270 5.271			FIXED  MOBILE except Aeronautical mobile MLA37  Radiolocation  MLA3 MLA93

**5.268** Use of the band 410-420 MHz by the space research service is limited to communications within 5 km of an orbiting, manned space vehicle. The power flux-density at the surface of the Earth produced by emissions from extra-vehicular activities shall not exceed  $-153 \text{ dB(W/m}^2\text{)}$  for  $0^\circ \leq \delta \leq 5^\circ$ ,  $-153 + 0.077 (\delta - 5) \text{ dB(W/m}^2\text{)}$  for  $5^\circ \leq \delta \leq 70^\circ$  and  $-148 \text{ dB(W/m}^2\text{)}$  for  $70^\circ \leq \delta \leq 90^\circ$ , where  $\delta$  is the angle of arrival of the radiofrequency wave and the reference bandwidth is 4 kHz. No. **4.10** does not apply to extra-vehicular activities. In this frequency band the space research (space-to-space) service shall not claim protection from, nor constrain the use and development of, stations of the fixed and mobile services. (WRC-97)

**5.269** *Different category of service:* in Australia, the United States, India, Japan and the United Kingdom, the allocation of the bands 420-430 MHz and 440-450 MHz to the radiolocation service is on a primary basis (see No. **5.33**).

**5.270** *Additional allocation:* in Australia, the United States, Jamaica and the Philippines, the bands 420-430 MHz and 440-450 MHz are also allocated to the amateur service on a secondary basis.

**5.271** *Additional allocation:* in Belarus, China, India, Kyrgyzstan and Turkmenistan, the band 420-460 MHz is also allocated to the aeronautical radionavigation service (radio altimeters) on a secondary basis. (WRC-07)

**MLA3** Notification of Issuance of Class Assignment.

**MLA37** Standard Radio System Plan 537: Requirements for Digital Trunked Radio Systems (DTRS) Operating in the Frequency Band 410 MHz to 430 MHz

**MLA93** Technical Specification for Land Mobile Radio Equipment (SKMM WTS LMR)

## APPENDIX B: CHANNELLING PLAN (12.5 kHz AND 6.25 kHz)

Ch. No.	1		11		21		31		41	
Base Rx	410.0125		410.1375		410.2625		410.3875		410.5125	
Base Tx	420.0125		420.1375		420.2625		420.3875		420.5125	
Ch. No.	1a	1b	11a	11b	21a	21b	31a	31b	41a	41b
Base Rx	410.009375	410.015625	410.134375	410.140625	410.259375	410.265625	410.384375	410.390625	410.509375	410.515625
Base Tx	420.009375	420.015625	420.134375	420.140625	420.259375	420.265625	420.384375	420.390625	420.509375	420.515625
Ch. No.	2		12		22		32		42	
Base Rx	410.0250		410.1500		410.2750		410.4000		410.5250	
Base Tx	420.0250		420.1500		420.2750		420.4000		420.5250	
Ch. No.	2a	2b	12a	12b	22a	22b	32a	32b	42a	42b
Base Rx	410.021875	410.028125	410.146875	410.153125	410.271875	410.278125	410.396875	410.403125	410.521875	410.528125
Base Tx	420.021875	420.028125	420.146875	420.153125	420.271875	420.278125	420.396875	420.403125	420.521875	420.528125
Ch. No.	3		13		23		33		43	
Base Rx	410.0375		410.1625		410.2875		410.4125		410.5375	
Base Tx	420.0375		420.1625		420.2875		420.4125		420.5375	
Ch. No.	3a	3b	13a	13b	23a	23b	33a	33b	43a	43b
Base Rx	410.034375	410.040625	410.159375	410.165625	410.284375	410.290625	410.409375	410.415625	410.534375	410.540625
Base Tx	420.034375	420.040625	420.159375	420.165625	420.284375	420.290625	420.409375	420.415625	420.534375	420.540625
Ch. No.	4		14		24		34		44	
Base Rx	410.0500		410.1750		410.3000		410.4250		410.5500	
Base Tx	420.0500		420.1750		420.3000		420.4250		420.5500	
Ch. No.	4a	4b	14a	14b	24a	24b	34a	34b	44a	44b
Base Rx	410.046875	410.053125	410.171875	410.178125	410.296875	410.303125	410.421875	410.428125	410.546875	410.553125
Base Tx	420.046875	420.053125	420.171875	420.178125	420.296875	420.303125	420.421875	420.428125	420.546875	420.553125
Ch. No.	5		15		25		35		45	
Base Rx	410.0625		410.1875		410.3125		410.4375		410.5625	
Base Tx	420.0625		420.1875		420.3125		420.4375		420.5625	
Ch. No.	5a	5b	15a	15b	25a	25b	35a	35b	45a	45b
Base Rx	410.059375	410.065625	410.184375	410.190625	410.309375	410.315625	410.434375	410.440625	410.559375	410.565625
Base Tx	420.059375	420.065625	420.184375	420.190625	420.309375	420.315625	420.434375	420.440625	420.559375	420.565625
Ch. No.	6		16		26		36		46	
Base Rx	410.0750		410.2000		410.3250		410.4500		410.5750	
Base Tx	420.0750		420.2000		420.3250		420.4500		420.5750	
Ch. No.	6a	6b	16a	16b	26a	26b	36a	36b	46a	46b
Base Rx	410.071875	410.078125	410.196875	410.203125	410.321875	410.328125	410.446875	410.453125	410.571875	410.578125
Base Tx	420.071875	420.078125	420.196875	420.203125	420.321875	420.328125	420.446875	420.453125	420.571875	420.578125
Ch. No.	7		17		27		37		47	
Base Rx	410.0875		410.2125		410.3375		410.4625		410.5875	
Base Tx	420.0875		420.2125		420.3375		420.4625		420.5875	
Ch. No.	7a	7b	17a	17b	27a	27b	37a	37b	47a	47b
Base Rx	410.084375	410.090625	410.209375	410.215625	410.334375	410.340625	410.459375	410.465625	410.584375	410.590625
Base Tx	420.084375	420.090625	420.209375	420.215625	420.334375	420.340625	420.459375	420.465625	420.584375	420.590625
Ch. No.	8		18		28		38		48	
Base Rx	410.1000		410.2250		410.3500		410.4750		410.6000	
Base Tx	420.1000		420.2250		420.3500		420.4750		420.6000	
Ch. No.	8a	8b	18a	18b	28a	28b	38a	38b	48a	48b
Base Rx	410.096875	410.103125	410.221875	410.228125	410.346875	410.353125	410.471875	410.478125	410.596875	410.603125
Base Tx	420.096875	420.103125	420.221875	420.228125	420.346875	420.353125	420.471875	420.478125	420.596875	420.603125
Ch. No.	9		19		29		39		49	
Base Rx	410.1125		410.2375		410.3625		410.4875		410.6125	
Base Tx	420.1125		420.2375		420.3625		420.4875		420.6125	
Ch. No.	9a	9b	19a	19b	29a	29b	39a	39b	49a	49b
Base Rx	410.109375	410.115625	410.234375	410.240625	410.359375	410.365625	410.484375	410.490625	410.609375	410.615625
Base Tx	420.109375	420.115625	420.234375	420.240625	420.359375	420.365625	420.484375	420.490625	420.609375	420.615625
Ch. No.	10		20		30		40		50	
Base Rx	410.1250		410.2500		410.3750		410.5000		410.6250	
Base Tx	420.1250		420.2500		420.3750		420.5000		420.6250	
Ch. No.	10a	10b	20a	20b	30a	30b	40a	40b	50a	50b
Base Rx	410.121875	410.128125	410.246875	410.253125	410.371875	410.378125	410.496875	410.503125	410.621875	410.628125
Base Tx	420.121875	420.128125	420.246875	420.253125	420.371875	420.378125	420.496875	420.503125	420.621875	420.628125

Ch. No.	51	61	71	81	91					
Base Rx	410.6375	410.7625	410.8875	411.0125	411.1375					
Base Tx	420.6375	420.7625	420.8875	421.0125	421.1375					
Ch. No.	51a	51b	61a	61b	71a	71b	81a	81b	91a	91b
Base Rx	410.634375	410.640625	410.759375	410.765625	410.884375	410.890625	411.009375	411.015625	411.134375	411.140625
Base Tx	420.634375	420.640625	420.759375	420.765625	420.884375	420.890625	421.009375	421.015625	421.134375	421.140625
Ch. No.	52	62	72	82	92					
Base Rx	410.6500	410.7750	410.9000	411.0250	411.1500					
Base Tx	420.6500	420.7750	420.9000	421.0250	421.1500					
Ch. No.	52a	52b	62a	62b	72a	72b	82a	82b	92a	92b
Base Rx	410.646875	410.653125	410.771875	410.778125	410.896875	410.903125	411.021875	411.028125	411.146875	411.153125
Base Tx	420.646875	420.653125	420.771875	420.778125	420.896875	420.903125	421.021875	421.028125	421.146875	421.153125
Ch. No.	53	63	73	83	93					
Base Rx	410.6625	410.7875	410.9125	411.0375	411.1625					
Base Tx	420.6625	420.7875	420.9125	421.0375	421.1625					
Ch. No.	53a	53b	63a	63b	73a	73b	83a	83b	93a	93b
Base Rx	410.659375	410.665625	410.784375	410.790625	410.909375	410.915625	411.034375	411.040625	411.159375	411.165625
Base Tx	420.659375	420.665625	420.784375	420.790625	420.909375	420.915625	421.034375	421.040625	421.159375	421.165625
Ch. No.	54	64	74	84	94					
Base Rx	410.6750	410.8000	410.9250	411.0500	411.1750					
Base Tx	420.6750	420.8000	420.9250	421.0500	421.1750					
Ch. No.	54a	54b	64a	64b	74a	74b	84a	84b	94a	94b
Base Rx	410.671875	410.678125	410.796875	410.803125	410.921875	410.928125	411.046875	411.053125	411.171875	411.178125
Base Tx	420.671875	420.678125	420.796875	420.803125	420.921875	420.928125	421.046875	421.053125	421.171875	421.178125
Ch. No.	55	65	75	85	95					
Base Rx	410.6875	410.8125	410.9375	411.0625	411.1875					
Base Tx	420.6875	420.8125	420.9375	421.0625	421.1875					
Ch. No.	55a	55b	65a	65b	75a	75b	85a	85b	95a	95b
Base Rx	410.684375	410.690625	410.809375	410.815625	410.934375	410.940625	411.059375	411.065625	411.184375	411.190625
Base Tx	420.684375	420.690625	420.809375	420.815625	420.934375	420.940625	421.059375	421.065625	421.184375	421.190625
Ch. No.	56	66	76	86	96					
Base Rx	410.7000	410.8250	410.9500	411.0750	411.2000					
Base Tx	420.7000	420.8250	420.9500	421.0750	421.2000					
Ch. No.	56a	56b	66a	66b	76a	76b	86a	86b	96a	96b
Base Rx	410.696875	410.703125	410.821875	410.828125	410.946875	410.953125	411.071875	411.078125	411.196875	411.203125
Base Tx	420.696875	420.703125	420.821875	420.828125	420.946875	420.953125	421.071875	421.078125	421.196875	421.203125
Ch. No.	57	67	77	87	97					
Base Rx	410.7125	410.8375	410.9625	411.0875	411.2125					
Base Tx	420.7125	420.8375	420.9625	421.0875	421.2125					
Ch. No.	57a	57b	67a	67b	77a	77b	87a	87b	97a	97b
Base Rx	410.709375	410.715625	410.834375	410.840625	410.959375	410.965625	411.084375	411.090625	411.209375	411.215625
Base Tx	420.709375	420.715625	420.834375	420.840625	420.959375	420.965625	421.084375	421.090625	421.209375	421.215625
Ch. No.	58	68	78	88	98					
Base Rx	410.7250	410.8500	410.9750	411.1000	411.2250					
Base Tx	420.7250	420.8500	420.9750	421.1000	421.2250					
Ch. No.	58a	58b	68a	68b	78a	78b	88a	88b	98a	98b
Base Rx	410.721875	410.728125	410.846875	410.853125	410.971875	410.978125	411.096875	411.103125	411.221875	411.228125
Base Tx	420.721875	420.728125	420.846875	420.853125	420.971875	420.978125	421.096875	421.103125	421.221875	421.228125
Ch. No.	59	69	79	89	99					
Base Rx	410.7375	410.8625	410.9875	411.1125	411.2375					
Base Tx	420.7375	420.8625	420.9875	421.1125	421.2375					
Ch. No.	59a	59b	69a	69b	79a	79b	89a	89b	99a	99b
Base Rx	410.734375	410.740625	410.859375	410.865625	410.984375	410.990625	411.109375	411.115625	411.234375	411.240625
Base Tx	420.734375	420.740625	420.859375	420.865625	420.984375	420.990625	421.109375	421.115625	421.234375	421.240625
Ch. No.	60	70	80	90	100					
Base Rx	410.7500	410.8750	411.0000	411.1250	411.2500					
Base Tx	420.7500	420.8750	421.0000	421.1250	421.2500					
Ch. No.	60a	60b	70a	70b	80a	80b	90a	90b	100a	100b
Base Rx	410.746875	410.753125	410.871875	410.878125	410.996875	411.003125	411.121875	411.128125	411.246875	411.253125
Base Tx	420.746875	420.753125	420.871875	420.878125	420.996875	421.003125	421.121875	421.128125	421.246875	421.253125

Ch. No.	101		111		121		131		141	
Base Rx	411.2625		411.3875		411.5125		411.6375		411.7625	
Base Tx	421.2625		421.3875		421.5125		421.6375		421.7625	
Ch. No.	101a	101b	111a	111b	121a	121b	131a	131b	141a	141b
Base Rx	411.259375	411.265625	411.384375	411.390625	411.509375	411.515625	411.634375	411.640625	411.759375	411.765625
Base Tx	421.259375	421.265625	421.384375	421.390625	421.509375	421.515625	421.634375	421.640625	421.759375	421.765625
Ch. No.	102		112		122		132		142	
Base Rx	411.2750		411.4000		411.5250		411.6500		411.7750	
Base Tx	421.2750		421.4000		421.5250		421.6500		421.7750	
Ch. No.	102a	102b	112a	112b	122a	122b	132a	132b	142a	142b
Base Rx	411.271875	411.278125	411.396875	411.403125	411.521875	411.528125	411.646875	411.653125	411.771875	411.778125
Base Tx	421.271875	421.278125	421.396875	421.403125	421.521875	421.528125	421.646875	421.653125	421.771875	421.778125
Ch. No.	103		113		123		133		143	
Base Rx	411.2875		411.4125		411.5375		411.6625		411.7875	
Base Tx	421.2875		421.4125		421.5375		421.6625		421.7875	
Ch. No.	103a	103b	113a	113b	123a	123b	133a	133b	143a	143b
Base Rx	411.284375	411.290625	411.409375	411.415625	411.534375	411.540625	411.659375	411.665625	411.784375	411.790625
Base Tx	421.284375	421.290625	421.409375	421.415625	421.534375	421.540625	421.659375	421.665625	421.784375	421.790625
Ch. No.	104		114		124		134		144	
Base Rx	411.3000		411.4250		411.5500		411.6750		411.8000	
Base Tx	421.3000		421.4250		421.5500		421.6750		421.8000	
Ch. No.	104a	104b	114a	114b	124a	124b	134a	134b	144a	144b
Base Rx	411.296875	411.303125	411.421875	411.428125	411.546875	411.553125	411.671875	411.678125	411.796875	411.803125
Base Tx	421.296875	421.303125	421.421875	421.428125	421.546875	421.553125	421.671875	421.678125	421.796875	421.803125
Ch. No.	105		115		125		135		145	
Base Rx	411.3125		411.4375		411.5625		411.6875		411.8125	
Base Tx	421.3125		421.4375		421.5625		421.6875		421.8125	
Ch. No.	105a	105b	115a	115b	125a	125b	135a	135b	145a	145b
Base Rx	411.309375	411.315625	411.434375	411.440625	411.559375	411.565625	411.684375	411.690625	411.809375	411.815625
Base Tx	421.309375	421.315625	421.434375	421.440625	421.559375	421.565625	421.684375	421.690625	421.809375	421.815625
Ch. No.	106		116		126		136		146	
Base Rx	411.3250		411.4500		411.5750		411.7000		411.8250	
Base Tx	421.3250		421.4500		421.5750		421.7000		421.8250	
Ch. No.	106a	106b	116a	116b	126a	126b	136a	136b	146a	146b
Base Rx	411.321875	411.328125	411.446875	411.453125	411.571875	411.578125	411.696875	411.703125	411.821875	411.828125
Base Tx	421.321875	421.328125	421.446875	421.453125	421.571875	421.578125	421.696875	421.703125	421.821875	421.828125
Ch. No.	107		117		127		137		147	
Base Rx	411.3375		411.4625		411.5875		411.7125		411.8375	
Base Tx	421.3375		421.4625		421.5875		421.7125		421.8375	
Ch. No.	107a	107b	117a	117b	127a	127b	137a	137b	147a	147b
Base Rx	411.334375	411.340625	411.459375	411.465625	411.584375	411.590625	411.709375	411.715625	411.834375	411.840625
Base Tx	421.334375	421.340625	421.459375	421.465625	421.584375	421.590625	421.709375	421.715625	421.834375	421.840625
Ch. No.	108		118		128		138		148	
Base Rx	411.3500		411.4750		411.6000		411.7250		411.8500	
Base Tx	421.3500		421.4750		421.6000		421.7250		421.8500	
Ch. No.	108a	108b	118a	118b	128a	128b	138a	138b	148a	148b
Base Rx	411.346875	411.353125	411.471875	411.478125	411.596875	411.603125	411.721875	411.728125	411.846875	411.853125
Base Tx	421.346875	421.353125	421.471875	421.478125	421.596875	421.603125	421.721875	421.728125	421.846875	421.853125
Ch. No.	109		119		129		139		149	
Base Rx	411.3625		411.4875		411.6125		411.7375		411.8625	
Base Tx	421.3625		421.4875		421.6125		421.7375		421.8625	
Ch. No.	109a	109b	119a	119b	129a	129b	139a	139b	149a	149b
Base Rx	411.359375	411.365625	411.484375	411.490625	411.609375	411.615625	411.734375	411.740625	411.859375	411.865625
Base Tx	421.359375	421.365625	421.484375	421.490625	421.609375	421.615625	421.734375	421.740625	421.859375	421.865625
Ch. No.	110		120		130		140		150	
Base Rx	411.3750		411.5000		411.6250		411.7500		411.8750	
Base Tx	421.3750		421.5000		421.6250		421.7500		421.8750	
Ch. No.	110a	110b	120a	120b	130a	130b	140a	140b	150a	150b
Base Rx	411.371875	411.378125	411.496875	411.503125	411.621875	411.628125	411.746875	411.753125	411.871875	411.878125
Base Tx	421.371875	421.378125	421.496875	421.503125	421.621875	421.628125	421.746875	421.753125	421.871875	421.878125

Ch. No.	151		161		171		181		191	
Base Rx	411.8875		412.0125		412.1375		412.2625		412.3875	
Base Tx	421.8875		422.0125		422.1375		422.2625		422.3875	
Ch. No.	151a	151b	161a	161b	171a	171b	181a	181b	191a	191b
Base Rx	411.884375	411.890625	412.009375	412.015625	412.134375	412.140625	412.259375	412.265625	412.384375	412.390625
Base Tx	421.884375	421.890625	422.009375	422.015625	422.134375	422.140625	422.259375	422.265625	422.384375	422.390625
Ch. No.	152		162		172		182		192	
Base Rx	411.9000		412.0250		412.1500		412.2750		412.4000	
Base Tx	421.9000		422.0250		422.1500		422.2750		422.4000	
Ch. No.	152a	152b	162a	162b	172a	172b	182a	182b	192a	192b
Base Rx	411.896875	411.903125	412.021875	412.028125	412.146875	412.153125	412.271875	412.278125	412.396875	412.403125
Base Tx	421.896875	421.903125	422.021875	422.028125	422.146875	422.153125	422.271875	422.278125	422.396875	422.403125
Ch. No.	153		163		173		183		193	
Base Rx	411.9125		412.0375		412.1625		412.2875		412.4125	
Base Tx	421.9125		422.0375		422.1625		422.2875		422.4125	
Ch. No.	153a	153b	163a	163b	173a	173b	183a	183b	193a	193b
Base Rx	411.909375	411.915625	412.034375	412.040625	412.159375	412.165625	412.284375	412.290625	412.409375	412.415625
Base Tx	421.909375	421.915625	422.034375	422.040625	422.159375	422.165625	422.284375	422.290625	422.409375	422.415625
Ch. No.	154		164		174		184		194	
Base Rx	411.9250		412.0500		412.1750		412.3000		412.4250	
Base Tx	421.9250		422.0500		422.1750		422.3000		422.4250	
Ch. No.	154a	154b	164a	164b	174a	174b	184a	184b	194a	194b
Base Rx	411.921875	411.928125	412.046875	412.053125	412.171875	412.178125	412.296875	412.303125	412.421875	412.428125
Base Tx	421.921875	421.928125	422.046875	422.053125	422.171875	422.178125	422.296875	422.303125	422.421875	422.428125
Ch. No.	155		165		175		185		195	
Base Rx	411.9375		412.0625		412.1875		412.3125		412.4375	
Base Tx	421.9375		422.0625		422.1875		422.3125		422.4375	
Ch. No.	155a	155b	165a	165b	175a	175b	185a	185b	195a	195b
Base Rx	411.934375	411.940625	412.059375	412.065625	412.184375	412.190625	412.309375	412.315625	412.434375	412.440625
Base Tx	421.934375	421.940625	422.059375	422.065625	422.184375	422.190625	422.309375	422.315625	422.434375	422.440625
Ch. No.	156		166		176		186		196	
Base Rx	411.9500		412.0750		412.2000		412.3250		412.4500	
Base Tx	421.9500		422.0750		422.2000		422.3250		422.4500	
Ch. No.	156a	156b	166a	166b	176a	176b	186a	186b	196a	196b
Base Rx	411.946875	411.953125	412.071875	412.078125	412.196875	412.203125	412.321875	412.328125	412.446875	412.453125
Base Tx	421.946875	421.953125	422.071875	422.078125	422.196875	422.203125	422.321875	422.328125	422.446875	422.453125
Ch. No.	157		167		177		187		197	
Base Rx	411.9625		412.0875		412.2125		412.3375		412.4625	
Base Tx	421.9625		422.0875		422.2125		422.3375		422.4625	
Ch. No.	157a	157b	167a	167b	177a	177b	187a	187b	197a	197b
Base Rx	411.959375	411.965625	412.084375	412.090625	412.209375	412.215625	412.334375	412.340625	412.459375	412.465625
Base Tx	421.959375	421.965625	422.084375	422.090625	422.209375	422.215625	422.334375	422.340625	422.459375	422.465625
Ch. No.	158		168		178		188		198	
Base Rx	411.9750		412.1000		412.2250		412.3500		412.4750	
Base Tx	421.9750		422.1000		422.2250		422.3500		422.4750	
Ch. No.	158a	158b	168a	168b	178a	178b	188a	188b	198a	198b
Base Rx	411.971875	411.978125	412.096875	412.103125	412.221875	412.228125	412.346875	412.353125	412.471875	412.478125
Base Tx	421.971875	421.978125	422.096875	422.103125	422.221875	422.228125	422.346875	422.353125	422.471875	422.478125
Ch. No.	159		169		179		189		199	
Base Rx	411.9875		412.1125		412.2375		412.3625		412.4875	
Base Tx	421.9875		422.1125		422.2375		422.3625		422.4875	
Ch. No.	159a	159b	169a	169b	179a	179b	189a	189b	199a	199b
Base Rx	411.984375	411.990625	412.109375	412.115625	412.234375	412.240625	412.359375	412.365625	412.484375	412.490625
Base Tx	421.984375	421.990625	422.109375	422.115625	422.234375	422.240625	422.359375	422.365625	422.484375	422.490625
Ch. No.	160		170		180		190		200	
Base Rx	412.0000		412.1250		412.2500		412.3750		412.5000	
Base Tx	422.0000		422.1250		422.2500		422.3750		422.5000	
Ch. No.	160a	160b	170a	170b	180a	180b	190a	190b	200a	200b
Base Rx	411.996875	412.003125	412.121875	412.128125	412.246875	412.253125	412.371875	412.378125	412.496875	412.503125
Base Tx	421.996875	422.003125	422.121875	422.128125	422.246875	422.253125	422.371875	422.378125	422.496875	422.503125

Ch. No.	201		211		221		231		241	
Base Rx	412.5125		412.6375		412.7625		412.8875		413.0125	
Base Tx	422.5125		422.6375		422.7625		422.8875		423.0125	
Ch. No.	201a	201b	211a	211b	221a	221b	231a	231b	241a	241b
Base Rx	412.509375	412.515625	412.634375	412.640625	412.759375	412.765625	412.884375	412.890625	413.009375	413.015625
Base Tx	422.509375	422.515625	422.634375	422.640625	422.759375	422.765625	422.884375	422.890625	423.009375	423.015625
Ch. No.	202		212		222		232		242	
Base Rx	412.5250		412.6500		412.7750		412.9000		413.0250	
Base Tx	422.5250		422.6500		422.7750		422.9000		423.0250	
Ch. No.	202a	202b	212a	212b	222a	222b	232a	232b	242a	242b
Base Rx	412.521875	412.528125	412.646875	412.653125	412.771875	412.778125	412.896875	412.903125	413.021875	413.028125
Base Tx	422.521875	422.528125	422.646875	422.653125	422.771875	422.778125	422.896875	422.903125	423.021875	423.028125
Ch. No.	203		213		223		233		243	
Base Rx	412.5375		412.6625		412.7875		412.9125		413.0375	
Base Tx	422.5375		422.6625		422.7875		422.9125		423.0375	
Ch. No.	203a	203b	213a	213b	223a	223b	233a	233b	243a	243b
Base Rx	412.534375	412.540625	412.659375	412.665625	412.784375	412.790625	412.909375	412.915625	413.034375	413.040625
Base Tx	422.534375	422.540625	422.659375	422.665625	422.784375	422.790625	422.909375	422.915625	423.034375	423.040625
Ch. No.	204		214		224		234		244	
Base Rx	412.5500		412.6750		412.8000		412.9250		413.0500	
Base Tx	422.5500		422.6750		422.8000		422.9250		423.0500	
Ch. No.	204a	204b	214a	214b	224a	224b	234a	234b	244a	244b
Base Rx	412.546875	412.553125	412.671875	412.678125	412.796875	412.803125	412.921875	412.928125	413.046875	413.053125
Base Tx	422.546875	422.553125	422.671875	422.678125	422.796875	422.803125	422.921875	422.928125	423.046875	423.053125
Ch. No.	205		215		225		235		245	
Base Rx	412.5625		412.6875		412.8125		412.9375		413.0625	
Base Tx	422.5625		422.6875		422.8125		422.9375		423.0625	
Ch. No.	205a	205b	215a	215b	225a	225b	235a	235b	245a	245b
Base Rx	412.559375	412.565625	412.684375	412.690625	412.809375	412.815625	412.934375	412.940625	413.059375	413.065625
Base Tx	422.559375	422.565625	422.684375	422.690625	422.809375	422.815625	422.934375	422.940625	423.059375	423.065625
Ch. No.	206		216		226		236		246	
Base Rx	412.5750		412.7000		412.8250		412.9500		413.0750	
Base Tx	422.5750		422.7000		422.8250		422.9500		423.0750	
Ch. No.	206a	206b	216a	216b	226a	226b	236a	236b	246a	246b
Base Rx	412.571875	412.578125	412.696875	412.703125	412.821875	412.828125	412.946875	412.953125	413.071875	413.078125
Base Tx	422.571875	422.578125	422.696875	422.703125	422.821875	422.828125	422.946875	422.953125	423.071875	423.078125
Ch. No.	207		217		227		237		247	
Base Rx	412.5875		412.7125		412.8375		412.9625		413.0875	
Base Tx	422.5875		422.7125		422.8375		422.9625		423.0875	
Ch. No.	207a	207b	217a	217b	227a	227b	237a	237b	247a	247b
Base Rx	412.584375	412.590625	412.709375	412.715625	412.834375	412.840625	412.959375	412.965625	413.084375	413.090625
Base Tx	422.584375	422.590625	422.709375	422.715625	422.834375	422.840625	422.959375	422.965625	423.084375	423.090625
Ch. No.	208		218		228		238		248	
Base Rx	412.6000		412.7250		412.8500		412.9750		413.1000	
Base Tx	422.6000		422.7250		422.8500		422.9750		423.1000	
Ch. No.	208a	208b	218a	218b	228a	228b	238a	238b	248a	248b
Base Rx	412.596875	412.603125	412.721875	412.728125	412.846875	412.853125	412.971875	412.978125	413.096875	413.103125
Base Tx	422.596875	422.603125	422.721875	422.728125	422.846875	422.853125	422.971875	422.978125	423.096875	423.103125
Ch. No.	209		219		229		239		249	
Base Rx	412.6125		412.7375		412.8625		412.9875		413.1125	
Base Tx	422.6125		422.7375		422.8625		422.9875		423.1125	
Ch. No.	209a	209b	219a	219b	229a	229b	239a	239b	249a	249b
Base Rx	412.609375	412.615625	412.734375	412.740625	412.859375	412.865625	412.984375	412.990625	413.109375	413.115625
Base Tx	422.609375	422.615625	422.734375	422.740625	422.859375	422.865625	422.984375	422.990625	423.109375	423.115625
Ch. No.	210		220		230		240		250	
Base Rx	412.6250		412.7500		412.8750		413.0000		413.1250	
Base Tx	422.6250		422.7500		422.8750		423.0000		423.1250	
Ch. No.	210a	210b	220a	220b	230a	230b	240a	240b	250a	250b
Base Rx	412.621875	412.628125	412.746875	412.753125	412.871875	412.878125	412.996875	413.003125	413.121875	413.128125
Base Tx	422.621875	422.628125	422.746875	422.753125	422.871875	422.878125	422.996875	423.003125	423.121875	423.128125

Ch. No.	251		261		271		281		291	
Base Rx	413.1375		413.2625		413.3875		413.5125		413.6375	
Base Tx	423.1375		423.2625		423.3875		423.5125		423.6375	
Ch. No.	251a	251b	261a	261b	271a	271b	281a	281b	291a	291b
Base Rx	413.134375	413.140625	413.259375	413.265625	413.384375	413.390625	413.509375	413.515625	413.634375	413.640625
Base Tx	423.134375	423.140625	423.259375	423.265625	423.384375	423.390625	423.509375	423.515625	423.634375	423.640625
Ch. No.	252		262		272		282		292	
Base Rx	413.1500		413.2750		413.4000		413.5250		413.6500	
Base Tx	423.1500		423.2750		423.4000		423.5250		423.6500	
Ch. No.	252a	252b	262a	262b	272a	272b	282a	282b	292a	292b
Base Rx	413.146875	413.153125	413.271875	413.278125	413.396875	413.403125	413.521875	413.528125	413.646875	413.653125
Base Tx	423.146875	423.153125	423.271875	423.278125	423.396875	423.403125	423.521875	423.528125	423.646875	423.653125
Ch. No.	253		263		273		283		293	
Base Rx	413.1625		413.2875		413.4125		413.5375		413.6625	
Base Tx	423.1625		423.2875		423.4125		423.5375		423.6625	
Ch. No.	253a	253b	263a	263b	273a	273b	283a	283b	293a	293b
Base Rx	413.159375	413.165625	413.284375	413.290625	413.409375	413.415625	413.534375	413.540625	413.659375	413.665625
Base Tx	423.159375	423.165625	423.284375	423.290625	423.409375	423.415625	423.534375	423.540625	423.659375	423.665625
Ch. No.	254		264		274		284		294	
Base Rx	413.1750		413.3000		413.4250		413.5500		413.6750	
Base Tx	423.1750		423.3000		423.4250		423.5500		423.6750	
Ch. No.	254a	254b	264a	264b	274a	274b	284a	284b	294a	294b
Base Rx	413.171875	413.178125	413.296875	413.303125	413.421875	413.428125	413.546875	413.553125	413.671875	413.678125
Base Tx	423.171875	423.178125	423.296875	423.303125	423.421875	423.428125	423.546875	423.553125	423.671875	423.678125
Ch. No.	255		265		275		285		295	
Base Rx	413.1875		413.3125		413.4375		413.5625		413.6875	
Base Tx	423.1875		423.3125		423.4375		423.5625		423.6875	
Ch. No.	255a	255b	265a	265b	275a	275b	285a	285b	295a	295b
Base Rx	413.184375	413.190625	413.309375	413.315625	413.434375	413.440625	413.559375	413.565625	413.684375	413.690625
Base Tx	423.184375	423.190625	423.309375	423.315625	423.434375	423.440625	423.559375	423.565625	423.684375	423.690625
Ch. No.	256		266		276		286		296	
Base Rx	413.2000		413.3250		413.4500		413.5750		413.7000	
Base Tx	423.2000		423.3250		423.4500		423.5750		423.7000	
Ch. No.	256a	256b	266a	266b	276a	276b	286a	286b	296a	296b
Base Rx	413.196875	413.203125	413.321875	413.328125	413.446875	413.453125	413.571875	413.578125	413.696875	413.703125
Base Tx	423.196875	423.203125	423.321875	423.328125	423.446875	423.453125	423.571875	423.578125	423.696875	423.703125
Ch. No.	257		267		277		287		297	
Base Rx	413.2125		413.3375		413.4625		413.5875		413.7125	
Base Tx	423.2125		423.3375		423.4625		423.5875		423.7125	
Ch. No.	257a	257b	267a	267b	277a	277b	287a	287b	297a	297b
Base Rx	413.209375	413.215625	413.334375	413.340625	413.459375	413.465625	413.584375	413.590625	413.709375	413.715625
Base Tx	423.209375	423.215625	423.334375	423.340625	423.459375	423.465625	423.584375	423.590625	423.709375	423.715625
Ch. No.	258		268		278		288		298	
Base Rx	413.2250		413.3500		413.4750		413.6000		413.7250	
Base Tx	423.2250		423.3500		423.4750		423.6000		423.7250	
Ch. No.	258a	258b	268a	268b	278a	278b	288a	288b	298a	298b
Base Rx	413.221875	413.228125	413.346875	413.353125	413.471875	413.478125	413.596875	413.603125	413.721875	413.728125
Base Tx	423.221875	423.228125	423.346875	423.353125	423.471875	423.478125	423.596875	423.603125	423.721875	423.728125
Ch. No.	259		269		279		289		299	
Base Rx	413.2375		413.3625		413.4875		413.6125		413.7375	
Base Tx	423.2375		423.3625		423.4875		423.6125		423.7375	
Ch. No.	259a	259b	269a	269b	279a	279b	289a	289b	299a	299b
Base Rx	413.234375	413.240625	413.359375	413.365625	413.484375	413.490625	413.609375	413.615625	413.734375	413.740625
Base Tx	423.234375	423.240625	423.359375	423.365625	423.484375	423.490625	423.609375	423.615625	423.734375	423.740625
Ch. No.	260		270		280		290		300	
Base Rx	413.2500		413.3750		413.5000		413.6250		413.7500	
Base Tx	423.2500		423.3750		423.5000		423.6250		423.7500	
Ch. No.	260a	260b	270a	270b	280a	280b	290a	290b	300a	300b
Base Rx	413.246875	413.253125	413.371875	413.378125	413.496875	413.503125	413.621875	413.628125	413.746875	413.753125
Base Tx	423.246875	423.253125	423.371875	423.378125	423.496875	423.503125	423.621875	423.628125	423.746875	423.753125

Ch. No.	301		311		321		331		341	
Base Rx	413.7625		413.8875		414.0125		414.1375		414.2625	
Base Tx	423.7625		423.8875		424.0125		424.1375		424.2625	
Ch. No.	301a	301b	311a	311b	321a	321b	331a	331b	341a	341b
Base Rx	413.759375	413.765625	413.884375	413.890625	414.009375	414.015625	414.134375	414.140625	414.259375	414.265625
Base Tx	423.759375	423.765625	423.884375	423.890625	424.009375	424.015625	424.134375	424.140625	424.259375	424.265625
Ch. No.	302		312		322		332		342	
Base Rx	413.7750		413.9000		414.0250		414.1500		414.2750	
Base Tx	423.7750		423.9000		424.0250		424.1500		424.2750	
Ch. No.	302a	302b	312a	312b	322a	322b	332a	332b	342a	342b
Base Rx	413.771875	413.778125	413.896875	413.903125	414.021875	414.028125	414.146875	414.153125	414.271875	414.278125
Base Tx	423.771875	423.778125	423.896875	423.903125	424.021875	424.028125	424.146875	424.153125	424.271875	424.278125
Ch. No.	303		313		323		333		343	
Base Rx	413.7875		413.9125		414.0375		414.1625		414.2875	
Base Tx	423.7875		423.9125		424.0375		424.1625		424.2875	
Ch. No.	303a	303b	313a	313b	323a	323b	333a	333b	343a	343b
Base Rx	413.784375	413.790625	413.909375	413.915625	414.034375	414.040625	414.159375	414.165625	414.284375	414.290625
Base Tx	423.784375	423.790625	423.909375	423.915625	424.034375	424.040625	424.159375	424.165625	424.284375	424.290625
Ch. No.	304		314		324		334		344	
Base Rx	413.8000		413.9250		414.0500		414.1750		414.3000	
Base Tx	423.8000		423.9250		424.0500		424.1750		424.3000	
Ch. No.	304a	304b	314a	314b	324a	324b	334a	334b	344a	344b
Base Rx	413.796875	413.803125	413.921875	413.928125	414.046875	414.053125	414.171875	414.178125	414.296875	414.303125
Base Tx	423.796875	423.803125	423.921875	423.928125	424.046875	424.053125	424.171875	424.178125	424.296875	424.303125
Ch. No.	305		315		325		335		345	
Base Rx	413.8125		413.9375		414.0625		414.1875		414.3125	
Base Tx	423.8125		423.9375		424.0625		424.1875		424.3125	
Ch. No.	305a	305b	315a	315b	325a	325b	335a	335b	345a	345b
Base Rx	413.809375	413.815625	413.934375	413.940625	414.059375	414.065625	414.184375	414.190625	414.309375	414.315625
Base Tx	423.809375	423.815625	423.934375	423.940625	424.059375	424.065625	424.184375	424.190625	424.309375	424.315625
Ch. No.	306		316		326		336		346	
Base Rx	413.8250		413.9500		414.0750		414.2000		414.3250	
Base Tx	423.8250		423.9500		424.0750		424.2000		424.3250	
Ch. No.	306a	306b	316a	316b	326a	326b	336a	336b	346a	346b
Base Rx	413.821875	413.828125	413.946875	413.953125	414.071875	414.078125	414.196875	414.203125	414.321875	414.328125
Base Tx	423.821875	423.828125	423.946875	423.953125	424.071875	424.078125	424.196875	424.203125	424.321875	424.328125
Ch. No.	307		317		327		337		347	
Base Rx	413.8375		413.9625		414.0875		414.2125		414.3375	
Base Tx	423.8375		423.9625		424.0875		424.2125		424.3375	
Ch. No.	307a	307b	317a	317b	327a	327b	337a	337b	347a	347b
Base Rx	413.834375	413.840625	413.959375	413.965625	414.084375	414.090625	414.209375	414.215625	414.334375	414.340625
Base Tx	423.834375	423.840625	423.959375	423.965625	424.084375	424.090625	424.209375	424.215625	424.334375	424.340625
Ch. No.	308		318		328		338		348	
Base Rx	413.8500		413.9750		414.1000		414.2250		414.3500	
Base Tx	423.8500		423.9750		424.1000		424.2250		424.3500	
Ch. No.	308a	308b	318a	318b	328a	328b	338a	338b	348a	348b
Base Rx	413.846875	413.853125	413.971875	413.978125	414.096875	414.103125	414.221875	414.228125	414.346875	414.353125
Base Tx	423.846875	423.853125	423.971875	423.978125	424.096875	424.103125	424.221875	424.228125	424.346875	424.353125
Ch. No.	309		319		329		339		349	
Base Rx	413.8625		413.9875		414.1125		414.2375		414.3625	
Base Tx	423.8625		423.9875		424.1125		424.2375		424.3625	
Ch. No.	309a	309b	319a	319b	329a	329b	339a	339b	349a	349b
Base Rx	413.859375	413.865625	413.984375	413.990625	414.109375	414.115625	414.234375	414.240625	414.359375	414.365625
Base Tx	423.859375	423.865625	423.984375	423.990625	424.109375	424.115625	424.234375	424.240625	424.359375	424.365625
Ch. No.	310		320		330		340		350	
Base Rx	413.8750		414.0000		414.1250		414.2500		414.3750	
Base Tx	423.8750		424.0000		424.1250		424.2500		424.3750	
Ch. No.	310a	310b	320a	320b	330a	330b	340a	340b	350a	350b
Base Rx	413.871875	413.878125	413.996875	414.003125	414.121875	414.128125	414.246875	414.253125	414.371875	414.378125
Base Tx	423.871875	423.878125	423.996875	424.003125	424.121875	424.128125	424.246875	424.253125	424.371875	424.378125

Ch. No.	351		361		371		381		391	
Base Rx	414.3875		414.5125		414.6375		414.7625		414.8875	
Base Tx	424.3875		424.5125		424.6375		424.7625		424.8875	
Ch. No.	351a	351b	361a	361b	371a	371b	381a	381b	391a	391b
Base Rx	414.384375	414.390625	414.509375	414.515625	414.634375	414.640625	414.759375	414.765625	414.884375	414.890625
Base Tx	424.384375	424.390625	424.509375	424.515625	424.634375	424.640625	424.759375	424.765625	424.884375	424.890625
Ch. No.	352		362		372		382		392	
Base Rx	414.4000		414.5250		414.6500		414.7750		414.9000	
Base Tx	424.4000		424.5250		424.6500		424.7750		424.9000	
Ch. No.	352a	352b	362a	362b	372a	372b	382a	382b	392a	392b
Base Rx	414.396875	414.403125	414.521875	414.528125	414.646875	414.653125	414.771875	414.778125	414.896875	414.903125
Base Tx	424.396875	424.403125	424.521875	424.528125	424.646875	424.653125	424.771875	424.778125	424.896875	424.903125
Ch. No.	353		363		373		383		393	
Base Rx	414.4125		414.5375		414.6625		414.7875		414.9125	
Base Tx	424.4125		424.5375		424.6625		424.7875		424.9125	
Ch. No.	353a	353b	363a	363b	373a	373b	383a	383b	393a	393b
Base Rx	414.409375	414.415625	414.534375	414.540625	414.659375	414.665625	414.784375	414.790625	414.909375	414.915625
Base Tx	424.409375	424.415625	424.534375	424.540625	424.659375	424.665625	424.784375	424.790625	424.909375	424.915625
Ch. No.	354		364		374		384		394	
Base Rx	414.4250		414.5500		414.6750		414.8000		414.9250	
Base Tx	424.4250		424.5500		424.6750		424.8000		424.9250	
Ch. No.	354a	354b	364a	364b	374a	374b	384a	384b	394a	394b
Base Rx	414.421875	414.428125	414.546875	414.553125	414.671875	414.678125	414.796875	414.803125	414.921875	414.928125
Base Tx	424.421875	424.428125	424.546875	424.553125	424.671875	424.678125	424.796875	424.803125	424.921875	424.928125
Ch. No.	355		365		375		385		395	
Base Rx	414.4375		414.5625		414.6875		414.8125		414.9375	
Base Tx	424.4375		424.5625		424.6875		424.8125		424.9375	
Ch. No.	355a	355b	365a	365b	375a	375b	385a	385b	395a	395b
Base Rx	414.434375	414.440625	414.559375	414.565625	414.684375	414.690625	414.809375	414.815625	414.934375	414.940625
Base Tx	424.434375	424.440625	424.559375	424.565625	424.684375	424.690625	424.809375	424.815625	424.934375	424.940625
Ch. No.	356		366		376		386		396	
Base Rx	414.4500		414.5750		414.7000		414.8250		414.9500	
Base Tx	424.4500		424.5750		424.7000		424.8250		424.9500	
Ch. No.	356a	356b	366a	366b	376a	376b	386a	386b	396a	396b
Base Rx	414.446875	414.453125	414.571875	414.578125	414.696875	414.703125	414.821875	414.828125	414.946875	414.953125
Base Tx	424.446875	424.453125	424.571875	424.578125	424.696875	424.703125	424.821875	424.828125	424.946875	424.953125
Ch. No.	357		367		377		387		397	
Base Rx	414.4625		414.5875		414.7125		414.8375		414.9625	
Base Tx	424.4625		424.5875		424.7125		424.8375		424.9625	
Ch. No.	357a	357b	367a	367b	377a	377b	387a	387b	397a	397b
Base Rx	414.459375	414.465625	414.584375	414.590625	414.709375	414.715625	414.834375	414.840625	414.959375	414.965625
Base Tx	424.459375	424.465625	424.584375	424.590625	424.709375	424.715625	424.834375	424.840625	424.959375	424.965625
Ch. No.	358		368		378		388		398	
Base Rx	414.4750		414.6000		414.7250		414.8500		414.9750	
Base Tx	424.4750		424.6000		424.7250		424.8500		424.9750	
Ch. No.	358a	358b	368a	368b	378a	378b	388a	388b	398a	398b
Base Rx	414.471875	414.478125	414.596875	414.603125	414.721875	414.728125	414.846875	414.853125	414.971875	414.978125
Base Tx	424.471875	424.478125	424.596875	424.603125	424.721875	424.728125	424.846875	424.853125	424.971875	424.978125
Ch. No.	359		369		379		389		399	
Base Rx	414.4875		414.6125		414.7375		414.8625		414.9875	
Base Tx	424.4875		424.6125		424.7375		424.8625		424.9875	
Ch. No.	359a	359b	369a	369b	379a	379b	389a	389b	399a	399b
Base Rx	414.484375	414.490625	414.609375	414.615625	414.734375	414.740625	414.859375	414.865625	414.984375	414.990625
Base Tx	424.484375	424.490625	424.609375	424.615625	424.734375	424.740625	424.859375	424.865625	424.984375	424.990625
Ch. No.	360		370		380		390		400	
Base Rx	414.5000		414.6250		414.7500		414.8750		415.0000	
Base Tx	424.5000		424.6250		424.7500		424.8750		425.0000	
Ch. No.	360a	360b	370a	370b	380a	380b	390a	390b	400a	400b
Base Rx	414.496875	414.503125	414.621875	414.628125	414.746875	414.753125	414.871875	414.878125	414.996875	415.003125
Base Tx	424.496875	424.503125	424.621875	424.628125	424.746875	424.753125	424.871875	424.878125	424.996875	425.003125

Ch. No.	401		411		421		431		441	
Base Rx	415.0125		415.1375		415.2625		415.3875		415.5125	
Base Tx	425.0125		425.1375		425.2625		425.3875		425.5125	
Ch. No.	401a	401b	411a	411b	421a	421b	431a	431b	441a	441b
Base Rx	415.009375	415.015625	415.134375	415.140625	415.259375	415.265625	415.384375	415.390625	415.509375	415.515625
Base Tx	425.009375	425.015625	425.134375	425.140625	425.259375	425.265625	425.384375	425.390625	425.509375	425.515625
Ch. No.	402		412		422		432		442	
Base Rx	415.0250		415.1500		415.2750		415.4000		415.5250	
Base Tx	425.0250		425.1500		425.2750		425.4000		425.5250	
Ch. No.	402a	402b	412a	412b	422a	422b	432a	432b	442a	442b
Base Rx	415.021875	415.028125	415.146875	415.153125	415.271875	415.278125	415.396875	415.403125	415.521875	415.528125
Base Tx	425.021875	425.028125	425.146875	425.153125	425.271875	425.278125	425.396875	425.403125	425.521875	425.528125
Ch. No.	403		413		423		433		443	
Base Rx	415.0375		415.1625		415.2875		415.4125		415.5375	
Base Tx	425.0375		425.1625		425.2875		425.4125		425.5375	
Ch. No.	403a	403b	413a	413b	423a	423b	433a	433b	443a	443b
Base Rx	415.034375	415.040625	415.159375	415.165625	415.284375	415.290625	415.409375	415.415625	415.534375	415.540625
Base Tx	425.034375	425.040625	425.159375	425.165625	425.284375	425.290625	425.409375	425.415625	425.534375	425.540625
Ch. No.	404		414		424		434		444	
Base Rx	415.0500		415.1750		415.3000		415.4250		415.5500	
Base Tx	425.0500		425.1750		425.3000		425.4250		425.5500	
Ch. No.	404a	404b	414a	414b	424a	424b	434a	434b	444a	444b
Base Rx	415.046875	415.053125	415.171875	415.178125	415.296875	415.303125	415.421875	415.428125	415.546875	415.553125
Base Tx	425.046875	425.053125	425.171875	425.178125	425.296875	425.303125	425.421875	425.428125	425.546875	425.553125
Ch. No.	405		415		425		435		445	
Base Rx	415.0625		415.1875		415.3125		415.4375		415.5625	
Base Tx	425.0625		425.1875		425.3125		425.4375		425.5625	
Ch. No.	405a	405b	415a	415b	425a	425b	435a	435b	445a	445b
Base Rx	415.059375	415.065625	415.184375	415.190625	415.309375	415.315625	415.434375	415.440625	415.559375	415.565625
Base Tx	425.059375	425.065625	425.184375	425.190625	425.309375	425.315625	425.434375	425.440625	425.559375	425.565625
Ch. No.	406		416		426		436		446	
Base Rx	415.0750		415.2000		415.3250		415.4500		415.5750	
Base Tx	425.0750		425.2000		425.3250		425.4500		425.5750	
Ch. No.	406a	406b	416a	416b	426a	426b	436a	436b	446a	446b
Base Rx	415.071875	415.078125	415.196875	415.203125	415.321875	415.328125	415.446875	415.453125	415.571875	415.578125
Base Tx	425.071875	425.078125	425.196875	425.203125	425.321875	425.328125	425.446875	425.453125	425.571875	425.578125
Ch. No.	407		417		427		437		447	
Base Rx	415.0875		415.2125		415.3375		415.4625		415.5875	
Base Tx	425.0875		425.2125		425.3375		425.4625		425.5875	
Ch. No.	407a	407b	417a	417b	427a	427b	437a	437b	447a	447b
Base Rx	415.084375	415.090625	415.209375	415.215625	415.334375	415.340625	415.459375	415.465625	415.584375	415.590625
Base Tx	425.084375	425.090625	425.209375	425.215625	425.334375	425.340625	425.459375	425.465625	425.584375	425.590625
Ch. No.	408		418		428		438		448	
Base Rx	415.1000		415.2250		415.3500		415.4750		415.6000	
Base Tx	425.1000		425.2250		425.3500		425.4750		425.6000	
Ch. No.	408a	408b	418a	418b	428a	428b	438a	438b	448a	448b
Base Rx	415.096875	415.103125	415.221875	415.228125	415.346875	415.353125	415.471875	415.478125	415.596875	415.603125
Base Tx	425.096875	425.103125	425.221875	425.228125	425.346875	425.353125	425.471875	425.478125	425.596875	425.603125
Ch. No.	409		419		429		439		449	
Base Rx	415.1125		415.2375		415.3625		415.4875		415.6125	
Base Tx	425.1125		425.2375		425.3625		425.4875		425.6125	
Ch. No.	409a	409b	419a	419b	429a	429b	439a	439b	449a	449b
Base Rx	415.109375	415.115625	415.234375	415.240625	415.359375	415.365625	415.484375	415.490625	415.609375	415.615625
Base Tx	425.109375	425.115625	425.234375	425.240625	425.359375	425.365625	425.484375	425.490625	425.609375	425.615625
Ch. No.	410		420		430		440		450	
Base Rx	415.1250		415.2500		415.3750		415.5000		415.6250	
Base Tx	425.1250		425.2500		425.3750		425.5000		425.6250	
Ch. No.	410a	410b	420a	420b	430a	430b	440a	440b	450a	450b
Base Rx	415.121875	415.128125	415.246875	415.253125	415.371875	415.378125	415.496875	415.503125	415.621875	415.628125
Base Tx	425.121875	425.128125	425.246875	425.253125	425.371875	425.378125	425.496875	425.503125	425.621875	425.628125

Ch. No.	451		461		471		481		491	
Base Rx	415.6375		415.7625		415.8875		416.0125		416.1375	
Base Tx	425.6375		425.7625		425.8875		426.0125		426.1375	
Ch. No.	451a	451b	461a	461b	471a	471b	481a	481b	491a	491b
Base Rx	415.634375	415.640625	415.759375	415.765625	415.884375	415.890625	416.009375	416.015625	416.134375	416.140625
Base Tx	425.634375	425.640625	425.759375	425.765625	425.884375	425.890625	426.009375	426.015625	426.134375	426.140625
Ch. No.	452		462		472		482		492	
Base Rx	415.6500		415.7750		415.9000		416.0250		416.1500	
Base Tx	425.6500		425.7750		425.9000		426.0250		426.1500	
Ch. No.	452a	452b	462a	462b	472a	472b	482a	482b	492a	492b
Base Rx	415.646875	415.653125	415.771875	415.778125	415.896875	415.903125	416.021875	416.028125	416.146875	416.153125
Base Tx	425.646875	425.653125	425.771875	425.778125	425.896875	425.903125	426.021875	426.028125	426.146875	426.153125
Ch. No.	453		463		473		483		493	
Base Rx	415.6625		415.7875		415.9125		416.0375		416.1625	
Base Tx	425.6625		425.7875		425.9125		426.0375		426.1625	
Ch. No.	453a	453b	463a	463b	473a	473b	483a	483b	493a	493b
Base Rx	415.659375	415.665625	415.784375	415.790625	415.909375	415.915625	416.034375	416.040625	416.159375	416.165625
Base Tx	425.659375	425.665625	425.784375	425.790625	425.909375	425.915625	426.034375	426.040625	426.159375	426.165625
Ch. No.	454		464		474		484		494	
Base Rx	415.6750		415.8000		415.9250		416.0500		416.1750	
Base Tx	425.6750		425.8000		425.9250		426.0500		426.1750	
Ch. No.	454a	454b	464a	464b	474a	474b	484a	484b	494a	494b
Base Rx	415.671875	415.678125	415.796875	415.803125	415.921875	415.928125	416.046875	416.053125	416.171875	416.178125
Base Tx	425.671875	425.678125	425.796875	425.803125	425.921875	425.928125	426.046875	426.053125	426.171875	426.178125
Ch. No.	455		465		475		485		495	
Base Rx	415.6875		415.8125		415.9375		416.0625		416.1875	
Base Tx	425.6875		425.8125		425.9375		426.0625		426.1875	
Ch. No.	455a	455b	465a	465b	475a	475b	485a	485b	495a	495b
Base Rx	415.684375	415.690625	415.809375	415.815625	415.934375	415.940625	416.059375	416.065625	416.184375	416.190625
Base Tx	425.684375	425.690625	425.809375	425.815625	425.934375	425.940625	426.059375	426.065625	426.184375	426.190625
Ch. No.	456		466		476		486		496	
Base Rx	415.7000		415.8250		415.9500		416.0750		416.2000	
Base Tx	425.7000		425.8250		425.9500		426.0750		426.2000	
Ch. No.	456a	456b	466a	466b	476a	476b	486a	486b	496a	496b
Base Rx	415.696875	415.703125	415.821875	415.828125	415.946875	415.953125	416.071875	416.078125	416.196875	416.203125
Base Tx	425.696875	425.703125	425.821875	425.828125	425.946875	425.953125	426.071875	426.078125	426.196875	426.203125
Ch. No.	457		467		477		487		497	
Base Rx	415.7125		415.8375		415.9625		416.0875		416.2125	
Base Tx	425.7125		425.8375		425.9625		426.0875		426.2125	
Ch. No.	457a	457b	467a	467b	477a	477b	487a	487b	497a	497b
Base Rx	415.709375	415.715625	415.834375	415.840625	415.959375	415.965625	416.084375	416.090625	416.209375	416.215625
Base Tx	425.709375	425.715625	425.834375	425.840625	425.959375	425.965625	426.084375	426.090625	426.209375	426.215625
Ch. No.	458		468		478		488		498	
Base Rx	415.7250		415.8500		415.9750		416.1000		416.2250	
Base Tx	425.7250		425.8500		425.9750		426.1000		426.2250	
Ch. No.	458a	458b	468a	468b	478a	478b	488a	488b	498a	498b
Base Rx	415.721875	415.728125	415.846875	415.853125	415.971875	415.978125	416.096875	416.103125	416.221875	416.228125
Base Tx	425.721875	425.728125	425.846875	425.853125	425.971875	425.978125	426.096875	426.103125	426.221875	426.228125
Ch. No.	459		469		479		489		499	
Base Rx	415.7375		415.8625		415.9875		416.1125		416.2375	
Base Tx	425.7375		425.8625		425.9875		426.1125		426.2375	
Ch. No.	459a	459b	469a	469b	479a	479b	489a	489b	499a	499b
Base Rx	415.734375	415.740625	415.859375	415.865625	415.984375	415.990625	416.109375	416.115625	416.234375	416.240625
Base Tx	425.734375	425.740625	425.859375	425.865625	425.984375	425.990625	426.109375	426.115625	426.234375	426.240625
Ch. No.	460		470		480		490		500	
Base Rx	415.7500		415.8750		416.0000		416.1250		416.2500	
Base Tx	425.7500		425.8750		426.0000		426.1250		426.2500	
Ch. No.	460a	460b	470a	470b	480a	480b	490a	490b	500a	500b
Base Rx	415.746875	415.753125	415.871875	415.878125	415.996875	416.003125	416.121875	416.128125	416.246875	416.253125
Base Tx	425.746875	425.753125	425.871875	425.878125	425.996875	426.003125	426.121875	426.128125	426.246875	426.253125

Ch. No.	501		511		521		531		541	
Base Rx	416.2625		416.3875		416.5125		416.6375		416.7625	
Base Tx	426.2625		426.3875		426.5125		426.6375		426.7625	
Ch. No.	501a	501b	511a	511b	521a	521b	531a	531b	541a	541b
Base Rx	416.259375	416.265625	416.384375	416.390625	416.509375	416.515625	416.634375	416.640625	416.759375	416.765625
Base Tx	426.259375	426.265625	426.384375	426.390625	426.509375	426.515625	426.634375	426.640625	426.759375	426.765625
Ch. No.	502		512		522		532		542	
Base Rx	416.2750		416.4000		416.5250		416.6500		416.7750	
Base Tx	426.2750		426.4000		426.5250		426.6500		426.7750	
Ch. No.	502a	502b	512a	512b	522a	522b	532a	532b	542a	542b
Base Rx	416.271875	416.278125	416.396875	416.403125	416.521875	416.528125	416.646875	416.653125	416.771875	416.778125
Base Tx	426.271875	426.278125	426.396875	426.403125	426.521875	426.528125	426.646875	426.653125	426.771875	426.778125
Ch. No.	503		513		523		533		543	
Base Rx	416.2875		416.4125		416.5375		416.6625		416.7875	
Base Tx	426.2875		426.4125		426.5375		426.6625		426.7875	
Ch. No.	503a	503b	513a	513b	523a	523b	533a	533b	543a	543b
Base Rx	416.284375	416.290625	416.409375	416.415625	416.534375	416.540625	416.659375	416.665625	416.784375	416.790625
Base Tx	426.284375	426.290625	426.409375	426.415625	426.534375	426.540625	426.659375	426.665625	426.784375	426.790625
Ch. No.	504		514		524		534		544	
Base Rx	416.3000		416.4250		416.5500		416.6750		416.8000	
Base Tx	426.3000		426.4250		426.5500		426.6750		426.8000	
Ch. No.	504a	504b	514a	514b	524a	524b	534a	534b	544a	544b
Base Rx	416.296875	416.303125	416.421875	416.428125	416.546875	416.553125	416.671875	416.678125	416.796875	416.803125
Base Tx	426.296875	426.303125	426.421875	426.428125	426.546875	426.553125	426.671875	426.678125	426.796875	426.803125
Ch. No.	505		515		525		535		545	
Base Rx	416.3125		416.4375		416.5625		416.6875		416.8125	
Base Tx	426.3125		426.4375		426.5625		426.6875		426.8125	
Ch. No.	505a	505b	515a	515b	525a	525b	535a	535b	545a	545b
Base Rx	416.309375	416.315625	416.434375	416.440625	416.559375	416.565625	416.684375	416.690625	416.809375	416.815625
Base Tx	426.309375	426.315625	426.434375	426.440625	426.559375	426.565625	426.684375	426.690625	426.809375	426.815625
Ch. No.	506		516		526		536		546	
Base Rx	416.3250		416.4500		416.5750		416.7000		416.8250	
Base Tx	426.3250		426.4500		426.5750		426.7000		426.8250	
Ch. No.	506a	506b	516a	516b	526a	526b	536a	536b	546a	546b
Base Rx	416.321875	416.328125	416.446875	416.453125	416.571875	416.578125	416.696875	416.703125	416.821875	416.828125
Base Tx	426.321875	426.328125	426.446875	426.453125	426.571875	426.578125	426.696875	426.703125	426.821875	426.828125
Ch. No.	507		517		527		537		547	
Base Rx	416.3375		416.4625		416.5875		416.7125		416.8375	
Base Tx	426.3375		426.4625		426.5875		426.7125		426.8375	
Ch. No.	507a	507b	517a	517b	527a	527b	537a	537b	547a	547b
Base Rx	416.334375	416.340625	416.459375	416.465625	416.584375	416.590625	416.709375	416.715625	416.834375	416.840625
Base Tx	426.334375	426.340625	426.459375	426.465625	426.584375	426.590625	426.709375	426.715625	426.834375	426.840625
Ch. No.	508		518		528		538		548	
Base Rx	416.3500		416.4750		416.6000		416.7250		416.8500	
Base Tx	426.3500		426.4750		426.6000		426.7250		426.8500	
Ch. No.	508a	508b	518a	518b	528a	528b	538a	538b	548a	548b
Base Rx	416.346875	416.353125	416.471875	416.478125	416.596875	416.603125	416.721875	416.728125	416.846875	416.853125
Base Tx	426.346875	426.353125	426.471875	426.478125	426.596875	426.603125	426.721875	426.728125	426.846875	426.853125
Ch. No.	509		519		529		539		549	
Base Rx	416.3625		416.4875		416.6125		416.7375		416.8625	
Base Tx	426.3625		426.4875		426.6125		426.7375		426.8625	
Ch. No.	509a	509b	519a	519b	529a	529b	539a	539b	549a	549b
Base Rx	416.359375	416.365625	416.484375	416.490625	416.609375	416.615625	416.734375	416.740625	416.859375	416.865625
Base Tx	426.359375	426.365625	426.484375	426.490625	426.609375	426.615625	426.734375	426.740625	426.859375	426.865625
Ch. No.	510		520		530		540		550	
Base Rx	416.3750		416.5000		416.6250		416.7500		416.8750	
Base Tx	426.3750		426.5000		426.6250		426.7500		426.8750	
Ch. No.	510a	510b	520a	520b	530a	530b	540a	540b	550a	550b
Base Rx	416.371875	416.378125	416.496875	416.503125	416.621875	416.628125	416.746875	416.753125	416.871875	416.878125
Base Tx	426.371875	426.378125	426.496875	426.503125	426.621875	426.628125	426.746875	426.753125	426.871875	426.878125

Ch. No.	551		561		571		581		591	
Base Rx	416.8875		417.0125		417.1375		417.2625		417.3875	
Base Tx	426.8875		427.0125		427.1375		427.2625		427.3875	
Ch. No.	551a	551b	561a	561b	571a	571b	581a	581b	591a	591b
Base Rx	416.884375	416.890625	417.009375	417.015625	417.134375	417.140625	417.259375	417.265625	417.384375	417.390625
Base Tx	426.884375	426.890625	427.009375	427.015625	427.134375	427.140625	427.259375	427.265625	427.384375	427.390625
Ch. No.	552		562		572		582		592	
Base Rx	416.9000		417.0250		417.1500		417.2750		417.4000	
Base Tx	426.9000		427.0250		427.1500		427.2750		427.4000	
Ch. No.	552a	552b	562a	562b	572a	572b	582a	582b	592a	592b
Base Rx	416.896875	416.903125	417.021875	417.028125	417.146875	417.153125	417.271875	417.278125	417.396875	417.403125
Base Tx	426.896875	426.903125	427.021875	427.028125	427.146875	427.153125	427.271875	427.278125	427.396875	427.403125
Ch. No.	553		563		573		583		593	
Base Rx	416.9125		417.0375		417.1625		417.2875		417.4125	
Base Tx	426.9125		427.0375		427.1625		427.2875		427.4125	
Ch. No.	553a	553b	563a	563b	573a	573b	583a	583b	593a	593b
Base Rx	416.909375	416.915625	417.034375	417.040625	417.159375	417.165625	417.284375	417.290625	417.409375	417.415625
Base Tx	426.909375	426.915625	427.034375	427.040625	427.159375	427.165625	427.284375	427.290625	427.409375	427.415625
Ch. No.	554		564		574		584		594	
Base Rx	416.9250		417.0500		417.1750		417.3000		417.4250	
Base Tx	426.9250		427.0500		427.1750		427.3000		427.4250	
Ch. No.	554a	554b	564a	564b	574a	574b	584a	584b	594a	594b
Base Rx	416.921875	416.928125	417.046875	417.053125	417.171875	417.178125	417.296875	417.303125	417.421875	417.428125
Base Tx	426.921875	426.928125	427.046875	427.053125	427.171875	427.178125	427.296875	427.303125	427.421875	427.428125
Ch. No.	555		565		575		585		595	
Base Rx	416.9375		417.0625		417.1875		417.3125		417.4375	
Base Tx	426.9375		427.0625		427.1875		427.3125		427.4375	
Ch. No.	555a	555b	565a	565b	575a	575b	585a	585b	595a	595b
Base Rx	416.934375	416.940625	417.059375	417.065625	417.184375	417.190625	417.309375	417.315625	417.434375	417.440625
Base Tx	426.934375	426.940625	427.059375	427.065625	427.184375	427.190625	427.309375	427.315625	427.434375	427.440625
Ch. No.	556		566		576		586		596	
Base Rx	416.9500		417.0750		417.2000		417.3250		417.4500	
Base Tx	426.9500		427.0750		427.2000		427.3250		427.4500	
Ch. No.	556a	556b	566a	566b	576a	576b	586a	586b	596a	596b
Base Rx	416.946875	416.953125	417.071875	417.078125	417.196875	417.203125	417.321875	417.328125	417.446875	417.453125
Base Tx	426.946875	426.953125	427.071875	427.078125	427.196875	427.203125	427.321875	427.328125	427.446875	427.453125
Ch. No.	557		567		577		587		597	
Base Rx	416.9625		417.0875		417.2125		417.3375		417.4625	
Base Tx	426.9625		427.0875		427.2125		427.3375		427.4625	
Ch. No.	557a	557b	567a	567b	577a	577b	587a	587b	597a	597b
Base Rx	416.959375	416.965625	417.084375	417.090625	417.209375	417.215625	417.334375	417.340625	417.459375	417.465625
Base Tx	426.959375	426.965625	427.084375	427.090625	427.209375	427.215625	427.334375	427.340625	427.459375	427.465625
Ch. No.	558		568		578		588		598	
Base Rx	416.9750		417.1000		417.2250		417.3500		417.4750	
Base Tx	426.9750		427.1000		427.2250		427.3500		427.4750	
Ch. No.	558a	558b	568a	568b	578a	578b	588a	588b	598a	598b
Base Rx	416.971875	416.978125	417.096875	417.103125	417.221875	417.228125	417.346875	417.353125	417.471875	417.478125
Base Tx	426.971875	426.978125	427.096875	427.103125	427.221875	427.228125	427.346875	427.353125	427.471875	427.478125
Ch. No.	559		569		579		589		599	
Base Rx	416.9875		417.1125		417.2375		417.3625		417.4875	
Base Tx	426.9875		427.1125		427.2375		427.3625		427.4875	
Ch. No.	559a	559b	569a	569b	579a	579b	589a	589b	599a	599b
Base Rx	416.984375	416.990625	417.109375	417.115625	417.234375	417.240625	417.359375	417.365625	417.484375	417.490625
Base Tx	426.984375	426.990625	427.109375	427.115625	427.234375	427.240625	427.359375	427.365625	427.484375	427.490625
Ch. No.	560		570		580		590		600	
Base Rx	417.0000		417.1250		417.2500		417.3750		417.5000	
Base Tx	427.0000		427.1250		427.2500		427.3750		427.5000	
Ch. No.	560a	560b	570a	570b	580a	580b	590a	590b	600a	600b
Base Rx	416.996875	417.003125	417.121875	417.128125	417.246875	417.253125	417.371875	417.378125	417.496875	417.503125
Base Tx	426.996875	427.003125	427.121875	427.128125	427.246875	427.253125	427.371875	427.378125	427.496875	427.503125

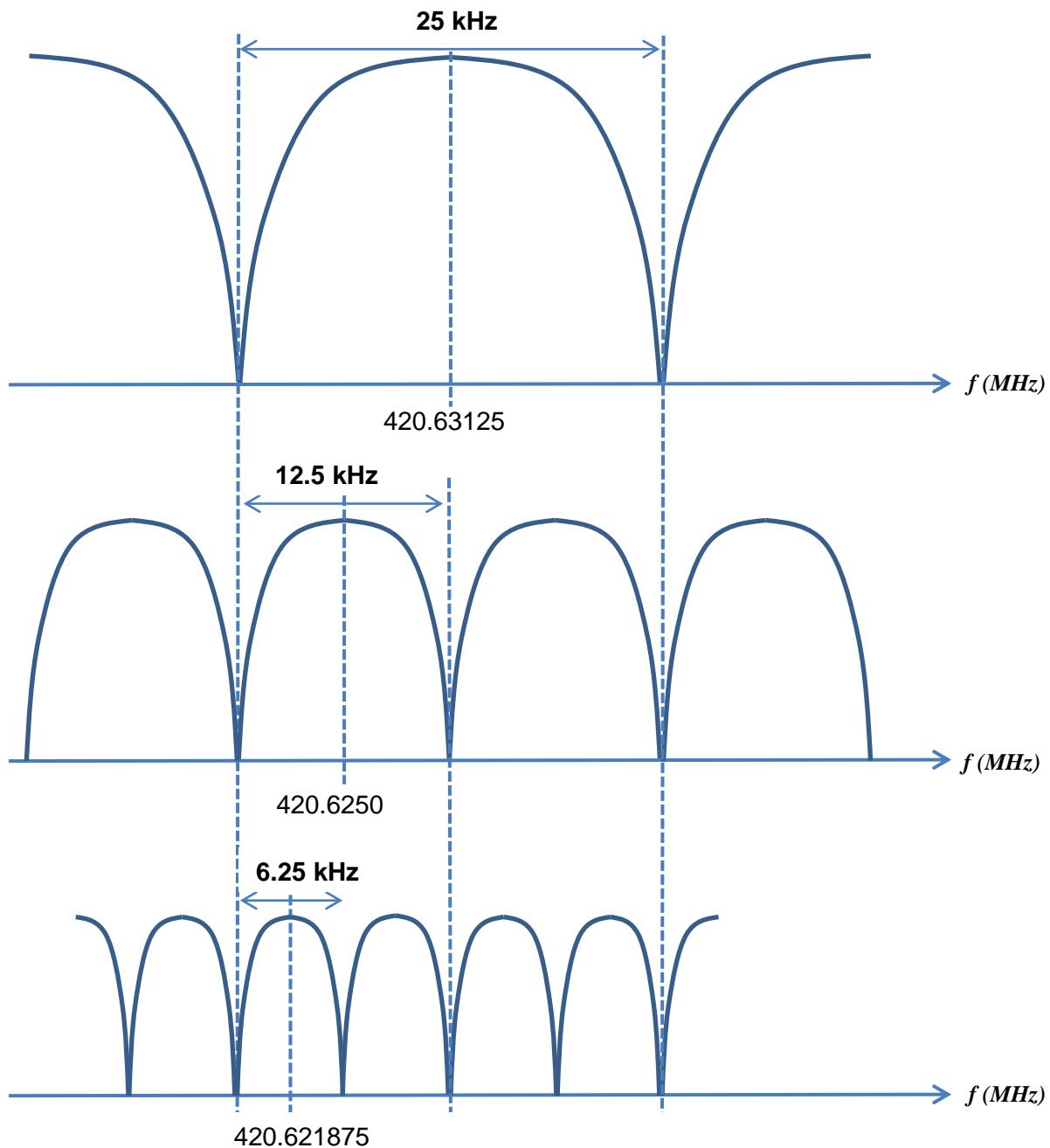
Ch. No.	601		611		621		631		641	
Base Rx	417.5125		417.6375		417.7625		417.8875		418.0125	
Base Tx	427.5125		427.6375		427.7625		427.8875		428.0125	
Ch. No.	601a	601b	611a	611b	621a	621b	631a	631b	641a	641b
Base Rx	417.509375	417.515625	417.634375	417.640625	417.759375	417.765625	417.884375	417.890625	418.009375	418.015625
Base Tx	427.509375	427.515625	427.634375	427.640625	427.759375	427.765625	427.884375	427.890625	428.009375	428.015625
Ch. No.	602		612		622		632		642	
Base Rx	417.5250		417.6500		417.7750		417.9000		418.0250	
Base Tx	427.5250		427.6500		427.7750		427.9000		428.0250	
Ch. No.	602a	602b	612a	612b	622a	622b	632a	632b	642a	642b
Base Rx	417.521875	417.528125	417.646875	417.653125	417.771875	417.778125	417.896875	417.903125	418.021875	418.028125
Base Tx	427.521875	427.528125	427.646875	427.653125	427.771875	427.778125	427.896875	427.903125	428.021875	428.028125
Ch. No.	603		613		623		633		643	
Base Rx	417.5375		417.6625		417.7875		417.9125		418.0375	
Base Tx	427.5375		427.6625		427.7875		427.9125		428.0375	
Ch. No.	603a	603b	613a	613b	623a	623b	633a	633b	643a	643b
Base Rx	417.534375	417.540625	417.659375	417.665625	417.784375	417.790625	417.909375	417.915625	418.034375	418.040625
Base Tx	427.534375	427.540625	427.659375	427.665625	427.784375	427.790625	427.909375	427.915625	428.034375	428.040625
Ch. No.	604		614		624		634		644	
Base Rx	417.5500		417.6750		417.8000		417.9250		418.0500	
Base Tx	427.5500		427.6750		427.8000		427.9250		428.0500	
Ch. No.	604a	604b	614a	614b	624a	624b	634a	634b	644a	644b
Base Rx	417.546875	417.553125	417.671875	417.678125	417.796875	417.803125	417.921875	417.928125	418.046875	418.053125
Base Tx	427.546875	427.553125	427.671875	427.678125	427.796875	427.803125	427.921875	427.928125	428.046875	428.053125
Ch. No.	605		615		625		635		645	
Base Rx	417.5625		417.6875		417.8125		417.9375		418.0625	
Base Tx	427.5625		427.6875		427.8125		427.9375		428.0625	
Ch. No.	605a	605b	615a	615b	625a	625b	635a	635b	645a	645b
Base Rx	417.559375	417.565625	417.684375	417.690625	417.809375	417.815625	417.934375	417.940625	418.059375	418.065625
Base Tx	427.559375	427.565625	427.684375	427.690625	427.809375	427.815625	427.934375	427.940625	428.059375	428.065625
Ch. No.	606		616		626		636		646	
Base Rx	417.5750		417.7000		417.8250		417.9500		418.0750	
Base Tx	427.5750		427.7000		427.8250		427.9500		428.0750	
Ch. No.	606a	606b	616a	616b	626a	626b	636a	636b	646a	646b
Base Rx	417.571875	417.578125	417.696875	417.703125	417.821875	417.828125	417.946875	417.953125	418.071875	418.078125
Base Tx	427.571875	427.578125	427.696875	427.703125	427.821875	427.828125	427.946875	427.953125	428.071875	428.078125
Ch. No.	607		617		627		637		647	
Base Rx	417.5875		417.7125		417.8375		417.9625		418.0875	
Base Tx	427.5875		427.7125		427.8375		427.9625		428.0875	
Ch. No.	607a	607b	617a	617b	627a	627b	637a	637b	647a	647b
Base Rx	417.584375	417.590625	417.709375	417.715625	417.834375	417.840625	417.959375	417.965625	418.084375	418.090625
Base Tx	427.584375	427.590625	427.709375	427.715625	427.834375	427.840625	427.959375	427.965625	428.084375	428.090625
Ch. No.	608		618		628		638		648	
Base Rx	417.6000		417.7250		417.8500		417.9750		418.1000	
Base Tx	427.6000		427.7250		427.8500		427.9750		428.1000	
Ch. No.	608a	608b	618a	618b	628a	628b	638a	638b	648a	648b
Base Rx	417.596875	417.603125	417.721875	417.728125	417.846875	417.853125	417.971875	417.978125	418.096875	418.103125
Base Tx	427.596875	427.603125	427.721875	427.728125	427.846875	427.853125	427.971875	427.978125	428.096875	428.103125
Ch. No.	609		619		629		639		649	
Base Rx	417.6125		417.7375		417.8625		417.9875		418.1125	
Base Tx	427.6125		427.7375		427.8625		427.9875		428.1125	
Ch. No.	609a	609b	619a	619b	629a	629b	639a	639b	649a	649b
Base Rx	417.609375	417.615625	417.734375	417.740625	417.859375	417.865625	417.984375	417.990625	418.109375	418.115625
Base Tx	427.609375	427.615625	427.734375	427.740625	427.859375	427.865625	427.984375	427.990625	428.109375	428.115625
Ch. No.	610		620		630		640		650	
Base Rx	417.6250		417.7500		417.8750		418.0000		418.1250	
Base Tx	427.6250		427.7500		427.8750		428.0000		428.1250	
Ch. No.	610a	610b	620a	620b	630a	630b	640a	640b	650a	650b
Base Rx	417.621875	417.628125	417.746875	417.753125	417.871875	417.878125	417.996875	418.003125	418.121875	418.128125
Base Tx	427.621875	427.628125	427.746875	427.753125	427.871875	427.878125	427.996875	428.003125	428.121875	428.128125

Ch. No.	651		661		671		681		691	
Base Rx	418.1375		418.2625		418.3875		418.5125		418.6375	
Base Tx	428.1375		428.2625		428.3875		428.5125		428.6375	
Ch. No.	651a	651b	661a	661b	671a	671b	681a	681b	691a	691b
Base Rx	418.134375	418.140625	418.259375	418.265625	418.384375	418.390625	418.509375	418.515625	418.634375	418.640625
Base Tx	428.134375	428.140625	428.259375	428.265625	428.384375	428.390625	428.509375	428.515625	428.634375	428.640625
Ch. No.	652		662		672		682		692	
Base Rx	418.1500		418.2750		418.4000		418.5250		418.6500	
Base Tx	428.1500		428.2750		428.4000		428.5250		428.6500	
Ch. No.	652a	652b	662a	662b	672a	672b	682a	682b	692a	692b
Base Rx	418.146875	418.153125	418.271875	418.278125	418.396875	418.403125	418.521875	418.528125	418.646875	418.653125
Base Tx	428.146875	428.153125	428.271875	428.278125	428.396875	428.403125	428.521875	428.528125	428.646875	428.653125
Ch. No.	653		663		673		683		693	
Base Rx	418.1625		418.2875		418.4125		418.5375		418.6625	
Base Tx	428.1625		428.2875		428.4125		428.5375		428.6625	
Ch. No.	653a	653b	663a	663b	673a	673b	683a	683b	693a	693b
Base Rx	418.159375	418.165625	418.284375	418.290625	418.409375	418.415625	418.534375	418.540625	418.659375	418.665625
Base Tx	428.159375	428.165625	428.284375	428.290625	428.409375	428.415625	428.534375	428.540625	428.659375	428.665625
Ch. No.	654		664		674		684		694	
Base Rx	418.1750		418.3000		418.4250		418.5500		418.6750	
Base Tx	428.1750		428.3000		428.4250		428.5500		428.6750	
Ch. No.	654a	654b	664a	664b	674a	674b	684a	684b	694a	694b
Base Rx	418.171875	418.178125	418.296875	418.303125	418.421875	418.428125	418.546875	418.553125	418.671875	418.678125
Base Tx	428.171875	428.178125	428.296875	428.303125	428.421875	428.428125	428.546875	428.553125	428.671875	428.678125
Ch. No.	655		665		675		685		695	
Base Rx	418.1875		418.3125		418.4375		418.5625		418.6875	
Base Tx	428.1875		428.3125		428.4375		428.5625		428.6875	
Ch. No.	655a	655b	665a	665b	675a	675b	685a	685b	695a	695b
Base Rx	418.184375	418.190625	418.309375	418.315625	418.434375	418.440625	418.559375	418.565625	418.684375	418.690625
Base Tx	428.184375	428.190625	428.309375	428.315625	428.434375	428.440625	428.559375	428.565625	428.684375	428.690625
Ch. No.	656		666		676		686		696	
Base Rx	418.2000		418.3250		418.4500		418.5750		418.7000	
Base Tx	428.2000		428.3250		428.4500		428.5750		428.7000	
Ch. No.	656a	656b	666a	666b	676a	676b	686a	686b	696a	696b
Base Rx	418.196875	418.203125	418.321875	418.328125	418.446875	418.453125	418.571875	418.578125	418.696875	418.703125
Base Tx	428.196875	428.203125	428.321875	428.328125	428.446875	428.453125	428.571875	428.578125	428.696875	428.703125
Ch. No.	657		667		677		687		697	
Base Rx	418.2125		418.3375		418.4625		418.5875		418.7125	
Base Tx	428.2125		428.3375		428.4625		428.5875		428.7125	
Ch. No.	657a	657b	667a	667b	677a	677b	687a	687b	697a	697b
Base Rx	418.209375	418.215625	418.334375	418.340625	418.459375	418.465625	418.584375	418.590625	418.709375	418.715625
Base Tx	428.209375	428.215625	428.334375	428.340625	428.459375	428.465625	428.584375	428.590625	428.709375	428.715625
Ch. No.	658		668		678		688		698	
Base Rx	418.2250		418.3500		418.4750		418.6000		418.7250	
Base Tx	428.2250		428.3500		428.4750		428.6000		428.7250	
Ch. No.	658a	658b	668a	668b	678a	678b	688a	688b	698a	698b
Base Rx	418.221875	418.228125	418.346875	418.353125	418.471875	418.478125	418.596875	418.603125	418.721875	418.728125
Base Tx	428.221875	428.228125	428.346875	428.353125	428.471875	428.478125	428.596875	428.603125	428.721875	428.728125
Ch. No.	659		669		679		689		699	
Base Rx	418.2375		418.3625		418.4875		418.6125		418.7375	
Base Tx	428.2375		428.3625		428.4875		428.6125		428.7375	
Ch. No.	659a	659b	669a	669b	679a	679b	689a	689b	699a	699b
Base Rx	418.234375	418.240625	418.359375	418.365625	418.484375	418.490625	418.609375	418.615625	418.734375	418.740625
Base Tx	428.234375	428.240625	428.359375	428.365625	428.484375	428.490625	428.609375	428.615625	428.734375	428.740625
Ch. No.	660		670		680		690		700	
Base Rx	418.2500		418.3750		418.5000		418.6250		418.7500	
Base Tx	428.2500		428.3750		428.5000		428.6250		428.7500	
Ch. No.	660a	660b	670a	670b	680a	680b	690a	690b	700a	700b
Base Rx	418.246875	418.253125	418.371875	418.378125	418.496875	418.503125	418.621875	418.628125	418.746875	418.753125
Base Tx	428.246875	428.253125	428.371875	428.378125	428.496875	428.503125	428.621875	428.628125	428.746875	428.753125

Ch. No.	701		711		721		731		741	
Base Rx	418.7625		418.8875		419.0125		419.1375		419.2625	
Base Tx	428.7625		428.8875		429.0125		429.1375		429.2625	
Ch. No.	701a	701b	711a	711b	721a	721b	731a	731b	741a	741b
Base Rx	418.759375	418.765625	418.884375	418.890625	419.009375	419.015625	419.134375	419.140625	419.259375	419.265625
Base Tx	428.759375	428.765625	428.884375	428.890625	429.009375	429.015625	429.134375	429.140625	429.259375	429.265625
Ch. No.	702		712		722		732		742	
Base Rx	418.7750		418.9000		419.0250		419.1500		419.2750	
Base Tx	428.7750		428.9000		429.0250		429.1500		429.2750	
Ch. No.	702a	702b	712a	712b	722a	722b	732a	732b	742a	742b
Base Rx	418.771875	418.778125	418.896875	418.903125	419.021875	419.028125	419.146875	419.153125	419.271875	419.278125
Base Tx	428.771875	428.778125	428.896875	428.903125	429.021875	429.028125	429.146875	429.153125	429.271875	429.278125
Ch. No.	703		713		723		733		743	
Base Rx	418.7875		418.9125		419.0375		419.1625		419.2875	
Base Tx	428.7875		428.9125		429.0375		429.1625		429.2875	
Ch. No.	703a	703b	713a	713b	723a	723b	733a	733b	743a	743b
Base Rx	418.784375	418.790625	418.909375	418.915625	419.034375	419.040625	419.159375	419.165625	419.284375	419.290625
Base Tx	428.784375	428.790625	428.909375	428.915625	429.034375	429.040625	429.159375	429.165625	429.284375	429.290625
Ch. No.	704		714		724		734		744	
Base Rx	418.8000		418.9250		419.0500		419.1750		419.3000	
Base Tx	428.8000		428.9250		429.0500		429.1750		429.3000	
Ch. No.	704a	704b	714a	714b	724a	724b	734a	734b	744a	744b
Base Rx	418.796875	418.803125	418.921875	418.928125	419.046875	419.053125	419.171875	419.178125	419.296875	419.303125
Base Tx	428.796875	428.803125	428.921875	428.928125	429.046875	429.053125	429.171875	429.178125	429.296875	429.303125
Ch. No.	705		715		725		735		745	
Base Rx	418.8125		418.9375		419.0625		419.1875		419.3125	
Base Tx	428.8125		428.9375		429.0625		429.1875		429.3125	
Ch. No.	705a	705b	715a	715b	725a	725b	735a	735b	745a	745b
Base Rx	418.809375	418.815625	418.934375	418.940625	419.059375	419.065625	419.184375	419.190625	419.309375	419.315625
Base Tx	428.809375	428.815625	428.934375	428.940625	429.059375	429.065625	429.184375	429.190625	429.309375	429.315625
Ch. No.	706		716		726		736		746	
Base Rx	418.8250		418.9500		419.0750		419.2000		419.3250	
Base Tx	428.8250		428.9500		429.0750		429.2000		429.3250	
Ch. No.	706a	706b	716a	716b	726a	726b	736a	736b	746a	746b
Base Rx	418.821875	418.828125	418.946875	418.953125	419.071875	419.078125	419.196875	419.203125	419.321875	419.328125
Base Tx	428.821875	428.828125	428.946875	428.953125	429.071875	429.078125	429.196875	429.203125	429.321875	429.328125
Ch. No.	707		717		727		737		747	
Base Rx	418.8375		418.9625		419.0875		419.2125		419.3375	
Base Tx	428.8375		428.9625		429.0875		429.2125		429.3375	
Ch. No.	707a	707b	717a	717b	727a	727b	737a	737b	747a	747b
Base Rx	418.834375	418.840625	418.959375	418.965625	419.084375	419.090625	419.209375	419.215625	419.334375	419.340625
Base Tx	428.834375	428.840625	428.959375	428.965625	429.084375	429.090625	429.209375	429.215625	429.334375	429.340625
Ch. No.	708		718		728		738		748	
Base Rx	418.8500		418.9750		419.1000		419.2250		419.3500	
Base Tx	428.8500		428.9750		429.1000		429.2250		429.3500	
Ch. No.	708a	708b	718a	718b	728a	728b	738a	738b	748a	748b
Base Rx	418.846875	418.853125	418.971875	418.978125	419.096875	419.103125	419.221875	419.228125	419.346875	419.353125
Base Tx	428.846875	428.853125	428.971875	428.978125	429.096875	429.103125	429.221875	429.228125	429.346875	429.353125
Ch. No.	709		719		729		739		749	
Base Rx	418.8625		418.9875		419.1125		419.2375		419.3625	
Base Tx	428.8625		428.9875		429.1125		429.2375		429.3625	
Ch. No.	709a	709b	719a	719b	729a	729b	739a	739b	749a	749b
Base Rx	418.859375	418.865625	418.984375	418.990625	419.109375	419.115625	419.234375	419.240625	419.359375	419.365625
Base Tx	428.859375	428.865625	428.984375	428.990625	429.109375	429.115625	429.234375	429.240625	429.359375	429.365625
Ch. No.	710		720		730		740		750	
Base Rx	418.8750		419.0000		419.1250		419.2500		419.3750	
Base Tx	428.8750		429.0000		429.1250		429.2500		429.3750	
Ch. No.	710a	710b	720a	720b	730a	730b	740a	740b	750a	750b
Base Rx	418.871875	418.878125	418.996875	419.003125	419.121875	419.128125	419.246875	419.253125	419.371875	419.378125
Base Tx	428.871875	428.878125	428.996875	429.003125	429.121875	429.128125	429.246875	429.253125	429.371875	429.378125

Ch. No.	751		761		771		781		791	
Base Rx	419.3875		419.5125		419.6375		419.7625		419.8875	
Base Tx	429.3875		429.5125		429.6375		429.7625		429.8875	
Ch. No.	751a	751b	761a	761b	771a	771b	781a	781b	791a	791b
Base Rx	419.384375	419.390625	419.509375	419.515625	419.634375	419.640625	419.759375	419.765625	419.884375	419.890625
Base Tx	429.384375	429.390625	429.509375	429.515625	429.634375	429.640625	429.759375	429.765625	429.884375	429.890625
Ch. No.	752		762		772		782		792	
Base Rx	419.4000		419.5250		419.6500		419.7750		419.9000	
Base Tx	429.4000		429.5250		429.6500		429.7750		429.9000	
Ch. No.	752a	752b	762a	762b	772a	772b	782a	782b	792a	792b
Base Rx	419.396875	419.403125	419.521875	419.528125	419.646875	419.653125	419.771875	419.778125	419.896875	419.903125
Base Tx	429.396875	429.403125	429.521875	429.528125	429.646875	429.653125	429.771875	429.778125	429.896875	429.903125
Ch. No.	753		763		773		783		793	
Base Rx	419.4125		419.5375		419.6625		419.7875		419.9125	
Base Tx	429.4125		429.5375		429.6625		429.7875		429.9125	
Ch. No.	753a	753b	763a	763b	773a	773b	783a	783b	793a	793b
Base Rx	419.409375	419.415625	419.534375	419.540625	419.659375	419.665625	419.784375	419.790625	419.909375	419.915625
Base Tx	429.409375	429.415625	429.534375	429.540625	429.659375	429.665625	429.784375	429.790625	429.909375	429.915625
Ch. No.	754		764		774		784		794	
Base Rx	419.4250		419.5500		419.6750		419.8000		419.9250	
Base Tx	429.4250		429.5500		429.6750		429.8000		429.9250	
Ch. No.	754a	754b	764a	764b	774a	774b	784a	784b	794a	794b
Base Rx	419.421875	419.428125	419.546875	419.553125	419.671875	419.678125	419.796875	419.803125	419.921875	419.928125
Base Tx	429.421875	429.428125	429.546875	429.553125	429.671875	429.678125	429.796875	429.803125	429.921875	429.928125
Ch. No.	755		765		775		785		795	
Base Rx	419.4375		419.5625		419.6875		419.8125		419.9375	
Base Tx	429.4375		429.5625		429.6875		429.8125		429.9375	
Ch. No.	755a	755b	765a	765b	775a	775b	785a	785b	795a	795b
Base Rx	419.434375	419.440625	419.559375	419.565625	419.684375	419.690625	419.809375	419.815625	419.934375	419.940625
Base Tx	429.434375	429.440625	429.559375	429.565625	429.684375	429.690625	429.809375	429.815625	429.934375	429.940625
Ch. No.	756		766		776		786		796	
Base Rx	419.4500		419.5750		419.7000		419.8250		419.9500	
Base Tx	429.4500		429.5750		429.7000		429.8250		429.9500	
Ch. No.	756a	756b	766a	766b	776a	776b	786a	786b	796a	796b
Base Rx	419.446875	419.453125	419.571875	419.578125	419.696875	419.703125	419.821875	419.828125	419.946875	419.953125
Base Tx	429.446875	429.453125	429.571875	429.578125	429.696875	429.703125	429.821875	429.828125	429.946875	429.953125
Ch. No.	757		767		777		787			
Base Rx	419.4625		419.5875		419.7125		419.8375			
Base Tx	429.4625		429.5875		429.7125		429.8375			
Ch. No.	757a	757b	767a	767b	777a	777b	787a	787b		
Base Rx	419.459375	419.465625	419.584375	419.590625	419.709375	419.715625	419.834375	419.840625		
Base Tx	429.459375	429.465625	429.584375	429.590625	429.709375	429.715625	429.834375	429.840625		
Ch. No.	758		768		778		788			
Base Rx	419.4750		419.6000		419.7250		419.8500			
Base Tx	429.4750		429.6000		429.7250		429.8500			
Ch. No.	758a	758b	768a	768b	778a	778b	788a	788b		
Base Rx	419.471875	419.478125	419.596875	419.603125	419.721875	419.728125	419.846875	419.853125		
Base Tx	429.471875	429.478125	429.596875	429.603125	429.721875	429.728125	429.846875	429.853125		
Ch. No.	759		769		779		789			
Base Rx	419.4875		419.6125		419.7375		419.8625			
Base Tx	429.4875		429.6125		429.7375		429.8625			
Ch. No.	759a	759b	769a	769b	779a	779b	789a	789b		
Base Rx	419.484375	419.490625	419.609375	419.615625	419.734375	419.740625	419.859375	419.865625		
Base Tx	429.484375	429.490625	429.609375	429.615625	429.734375	429.740625	429.859375	429.865625		
Ch. No.	760		770		780		790			
Base Rx	419.5000		419.6250		419.7500		419.8750			
Base Tx	429.5000		429.6250		429.7500		429.8750			
Ch. No.	760a	760b	770a	770b	780a	780b	790a	790b		
Base Rx	419.496875	419.503125	419.621875	419.628125	419.746875	419.753125	419.871875	419.878125		
Base Tx	429.496875	429.503125	429.621875	429.628125	429.746875	429.753125	429.871875	429.878125		

## APPENDIX C: CHANNEL BANDWIDTH ARRANGEMENTS (25, 12.5 AND 6.25 kHz)



## APPENDIX D: CHANNELLING ALLOTMENT PLAN (12.5 kHz AND 6.25 kHz)

Block	Sub-block																				1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20																				
A	1a	1b	2a	2b	3a	3b	4a	4b	5a	5b	6a	6b	7a	7b	8a	8b	9a	9b	10a	10b	11a	11b	12a	12b	13a	13b	14a	14b	15a	15b	16a	16b	17a	17b	18a	18b	19a	19b	20a	20b																				
	21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40																					
	21a	21b	22a	22b	23a	23b	24a	24b	25a	25b	26a	26b	27a	27b	28a	28b	29a	29b	30a	30b	31a	31b	32a	32b	33a	33b	34a	34b	35a	35b	36a	36b	37a	37b	38a	38b	39a	39b	40a	40b																				
	41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60																					
	41a	41b	42a	42b	43a	43b	44a	44b	45a	45b	46a	46b	47a	47b	48a	48b	49a	49b	50a	50b	51a	51b	52a	52b	53a	53b	54a	54b	55a	55b	56a	56b	57a	57b	58a	58b	59a	59b	60a	60b																				
	61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80																					
	61a	61b	62a	62b	63a	63b	64a	64b	65a	65b	66a	66b	67a	67b	68a	68b	69a	69b	70a	70b	71a	71b	72a	72b	73a	73b	74a	74b	75a	75b	76a	76b	77a	77b	78a	78b	79a	79b	80a	80b																				
	81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100																					
	81a	81b	82a	82b	83a	83b	84a	84b	85a	85b	86a	86b	87a	87b	88a	88b	89a	89b	90a	90b	91a	91b	92a	92b	93a	93b	94a	94b	95a	95b	96a	96b	97a	97b	98a	98b	99a	99b	100a	100b																				
	101		102		103		104		105		106		107		108		109		110		111		112		113		114		115		116		117		118		119		120																					
	101a	101b	102a	102b	103a	103b	104a	104b	105a	105b	106a	106b	107a	107b	108a	108b	109a	109b	110a	110b	111a	111b	112a	112b	113a	113b	114a	114b	115a	115b	116a	116b	117a	117b	118a	118b	119a	119b	120a	120b																				
	121		122		123		124		125		126		127		128		129		130		131		132		133		134		135		136		137		138		139		140																					
	121a	121b	122a	122b	123a	123b	124a	124b	125a	125b	126a	126b	127a	127b	128a	128b	129a	129b	130a	130b	131a	131b	132a	132b	133a	133b	134a	134b	135a	135b	136a	136b	137a	137b	138a	138b	139a	139b	140a	140b																				
	141		142		143		144		145		146		147		148		149		150		151		152		153		154		155		156		157		158		159		160																					
	141a	141b	142a	142b	143a	143b	144a	144b	145a	145b	146a	146b	147a	147b	148a	148b	149a	149b	150a	150b	151a	151b	152a	152b	153a	153b	154a	154b	155a	155b	156a	156b	157a	157b	158a	158b	159a	159b	160a	160b																				
	161		162		163		164		165		166		167		168		169		170		171		172		173		174		175		176		177		178		179		180																					
	161a	161b	162a	162b	163a	163b	164a	164b	165a	165b	166a	166b	167a	167b	168a	168b	169a	169b	170a	170b	171a	171b	172a	172b	173a	173b	174a	174b	175a	175b	176a	176b	177a	177b	178a	178b	179a	179b	180a	180b																				
	181		182		183		184		185		186		187		188		189		190		191		192		193		194		195		196		197		198		199		200																					
	181a	181b	182a	182b	183a	183b	184a	184b	185a	185b	186a	186b	187a	187b	188a	188b	189a	189b	190a	190b	191a	191b	192a	192b	193a	193b	194a	194b	195a	195b	196a	196b	197a	197b	198a	198b	199a	199b	200a	200b																				
B	201		202		203		204		205		206		207		208		209		210		211		212		213		214		215		216		217		218		219		220																					
	201a	201b	202a	202b	203a	203b	204a	204b	205a	205b	206a	206b	207a	207b	208a	208b	209a	209b	210a	210b	211a	211b	212a	212b	213a	213b	214a	214b	215a	215b	216a	216b	217a	217b	218a	218b	219a	219b	220a	220b																				
	221		222		223		224		225		226		227		228		229		230		231		232		233		234		235		236		237		238		239		240																					
	221a	221b	222a	222b	223a	223b	224a	224b	225a	225b	226a	226b	227a	227b	228a	228b	229a	229b	230a	230b	231a	231b	232a	232b	233a	233b	234a	234b	235a	235b	236a	236b	237a	237b	238a	238b	239a	239b	240a	240b																				
	241		242		243		244		245		246		247		248		249		250		251		252		253		254		255		256		257		258		259		260																					
	241a	241b	242a	242b	243a	243b	244a	244b	245a	245b	246a	246b	247a	247b	248a	248b	249a	249b	250a	250b	251a	251b	252a	252b	253a	253b	254a	254b	255a	255b	256a	256b	257a	257b	258a	258b	259a	259b	260a	260b																				
	261		262		263		264		265		266		267		268		269		270		271		272		273		274		275		276		277		278		279		280																					
	261a	261b	262a	262b	263a	263b	264a	264b	265a	265b	266a	266b	267a	267b	268a	268b	269a	269b	270a	270b	271a	271b	272a	272b	273a	273b	274a	274b	275a	275b	276a	276b	277a	277b	278a	278b	279a	279b	280a	280b																				
	281		282		283		284		285		286		287		288		289		290		291		292		293		294		295		296		297		298		299		300																					
	281a	281b	282a	282b	283a	283b	284a	284b	285a	285b	286a	286b	287a	287b	288a	288b	289a	289b	290a	290b	291a	291b	292a	292b	293a	293b	294a	294b	295a	295b	296a	296b	297a	297b	298a	298b	299a	299b	300a	300b																				
	301		302		303		304		305		306		307		308		309		310		311		312		313		314		315		316		317		318		319		320																					
	301a	301b	302a	302b	303a	303b	304a	304b	305a	305b	306a	306b	307a	307b	308a	308b	309a	309b	310a	310b	311a	311b	312a	312b	313a	313b	314a	314b	315a	315b	316a	316b	317a	317b	318a	318b	319a	319b	320a	320b																				
	321		322		323		324		325		326		327		328		329		330		331		332		333		334		335		336		337		338		339		340																					
	321a	321b	322a	322b	323a	323b	324a	324b	325a	325b	326a	326b	327a	327b	328a	328b	329a	329b	330a	330b	331a	331b	332a	332b	333a	333b	334a	334b	335a	33																														

Block	Sub-block																				
	1		2		3		4		5		6		7		8		9		10		
C	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	
	401a	401b	402a	402b	403a	403b	404a	404b	405a	405b	406a	406b	407a	407b	408a	408b	409a	409b	410a	410b	
	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	
	421a	421b	422a	422b	423a	423b	424a	424b	425a	425b	426a	426b	427a	427b	428a	428b	429a	429b	430a	430b	
	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	
	441a	441b	442a	442b	443a	443b	444a	444b	445a	445b	446a	446b	447a	447b	448a	448b	449a	449b	450a	450b	
	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	
	461a	461b	462a	462b	463a	463b	464a	464b	465a	465b	466a	466b	467a	467b	468a	468b	469a	469b	470a	470b	
	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	
	481a	481b	482a	482b	483a	483b	484a	484b	485a	485b	486a	486b	487a	487b	488a	488b	489a	489b	490a	490b	
	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	
	501a	501b	502a	502b	503a	503b	504a	504b	505a	505b	506a	506b	507a	507b	508a	508b	509a	509b	510a	510b	
	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	
	521a	521b	522a	522b	523a	523b	524a	524b	525a	525b	526a	526b	527a	527b	528a	528b	529a	529b	530a	530b	
	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	
	541a	541b	542a	542b	543a	543b	544a	544b	545a	545b	546a	546b	547a	547b	548a	548b	549a	549b	550a	550b	
	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	
	561a	561b	562a	562b	563a	563b	564a	564b	565a	565b	566a	566b	567a	567b	568a	568b	569a	569b	570a	570b	
	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	
	581a	581b	582a	582b	583a	583b	584a	584b	585a	585b	586a	586b	587a	587b	588a	588b	589a	589b	590a	590b	
D	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	
	601a	601b	602a	602b	603a	603b	604a	604b	605a	605b	606a	606b	607a	607b	608a	608b	609a	609b	610a	610b	
	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	
	621a	621b	622a	622b	623a	623b	624a	624b	625a	625b	626a	626b	627a	627b	628a	628b	629a	629b	630a	630b	
	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	
	641a	641b	642a	642b	643a	643b	644a	644b	645a	645b	646a	646b	647a	647b	648a	648b	649a	649b	650a	650b	
	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	
	661a	661b	662a	662b	663a	663b	664a	664b	665a	665b	666a	666b	667a	667b	668a	668b	669a	669b	670a	670b	
	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	
	681a	681b	682a	682b	683a	683b	684a	684b	685a	685b	686a	686b	687a	687b	688a	688b	689a	689b	690a	690b	
	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	
	701a	701b	702a	702b	703a	703b	704a	704b	705a	705b	706a	706b	707a	707b	708a	708b	709a	709b	710a	710b	
	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	
	721a	721b	722a	722b	723a	723b	724a	724b	725a	725b	726a	726b	727a	727b	728a	728b	729a	729b	730a	730b	
	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	
	741a	741b	742a	742b	743a	743b	744a	744b	745a	745b	746a	746b	747a	747b	748a	748b	749a	749b	750a	750b	
	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	
	761a	761b	762a	762b	763a	763b	764a	764b	765a	765b	766a	766b	767a	767b	768a	768b	769a	769b	770a	770b	
	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796					
	781a	781b	782a	782b	783a	783b	784a	784b	785a	785b	786a	786b	787a	787b	788a	788b	789a	789b	790a	790b	

## **APPENDIX E: DEFINED GEOGRAPHIC AREA**

<b>Area</b>	<b>Geographic Blocks</b>
1	Peninsular Malaysia
2	Sabah and Wilayah Persekutuan Labuan
3	Sarawak

## APPENDIX F: ERLANG C TABLE

**Maximum Offered Load versus B and N**  
**B is in %**

N/B	0.01	0.05	0.1	0.5	1	2	5	10	15	20	30	40
1	0.0001	0.0005	0.0010	0.0050	0.0100	0.0200	0.0500	0.1000	0.1500	0.2000	0.3000	0.4000
2	0.0142	0.0319	0.0452	0.1025	0.1465	0.2103	0.3422	0.5000	0.6278	0.7403	0.9390	1.1170
3	0.0860	0.1490	0.1894	0.3339	0.4291	0.5545	0.7876	1.0400	1.2310	1.3930	1.6670	1.9030
4	0.2310	0.3533	0.4257	0.6641	0.8100	0.9939	1.3190	1.6530	1.8990	2.1020	2.4400	2.7250
5	0.4428	0.6289	0.7342	1.0650	1.2590	1.4970	1.9050	2.3130	2.6070	2.8470	3.2410	3.5690
6	0.7110	0.9616	1.0990	1.5190	1.7580	2.0470	2.5320	3.0070	3.3440	3.6170	4.0620	4.4280
7	1.0260	1.3410	1.5100	2.0140	2.2970	2.6330	3.1880	3.7250	4.1030	4.4060	4.8970	5.2980
8	1.3820	1.7580	1.9580	2.5430	2.8660	3.2460	3.8690	4.4630	4.8780	5.2100	5.7440	6.1780
9	1.7710	2.2080	2.4360	3.1000	3.4600	3.8830	4.5690	5.2180	5.6680	6.0270	6.6000	7.0650
10	2.1890	2.6850	2.9420	3.6790	4.0770	4.5400	5.2850	5.9860	6.4690	6.8530	7.4650	7.9590
11	2.6340	3.1860	3.4700	4.2790	4.7120	5.2130	6.0150	6.7650	7.2800	7.6880	8.3360	8.8570
12	3.1000	3.7080	4.0180	4.8960	5.3630	5.9010	6.7580	7.5540	8.0990	8.5300	9.2120	9.7610
13	3.5870	4.2480	4.5840	5.5290	6.0280	6.6020	7.5110	8.3520	8.9260	9.3790	10.09	10.67
14	4.0920	4.8050	5.1660	6.1750	6.7050	7.3130	8.2730	9.1580	9.7600	10.230	10.980	11.580
15	4.6140	5.3770	5.7620	6.8330	7.3940	8.0350	9.0440	9.9700	10.600	11.090	11.870	12.490
16	5.1500	5.9620	6.3710	7.5020	8.0930	8.7660	9.8220	10.790	11.440	11.960	12.770	13.410
17	5.6990	6.5600	6.9910	8.1820	8.8010	9.5050	10.610	11.610	12.290	12.830	13.660	14.330
18	6.2610	7.1690	7.6220	8.8710	9.5180	10.250	11.400	12.440	13.150	13.700	14.560	15.250
19	6.8350	7.7880	8.2630	9.5680	10.240	11.010	12.200	13.280	14.010	14.580	15.470	16.180
20	7.4190	8.4170	8.9140	10.270	10.970	11.770	13.000	14.120	14.870	15.450	16.370	17.100
21	8.0130	9.0550	9.5720	10.990	11.710	12.530	13.810	14.960	15.730	16.340	17.280	18.030
22	8.6160	9.7020	10.240	11.700	12.460	13.300	14.620	15.810	16.600	17.220	18.190	18.960
23	9.2280	10.360	10.910	12.430	13.210	14.080	15.430	16.650	17.470	18.110	19.100	19.890
24	9.8480	11.020	11.590	13.160	13.960	14.860	16.250	17.510	18.350	19.000	20.020	20.820
25	10.480	11.690	12.280	13.900	14.720	15.650	17.080	18.360	19.220	19.890	20.930	21.760
26	11.110	12.360	12.970	14.640	15.490	16.440	17.910	19.220	20.100	20.790	21.850	22.690
27	11.750	13.040	13.670	15.380	16.260	17.230	18.740	20.080	20.980	21.680	22.770	23.630
28	12.400	13.730	14.380	16.140	17.030	18.030	19.570	20.950	21.870	22.580	23.690	24.570
29	13.050	14.420	15.090	16.890	17.810	18.830	20.410	21.820	22.750	23.480	24.610	25.500
30	13.710	15.120	15.800	17.650	18.590	19.640	21.250	22.680	23.640	24.380	25.540	26.440
31	14.380	15.820	16.520	18.420	19.370	20.450	22.090	23.560	24.530	25.290	26.460	27.380
32	15.050	16.530	17.250	19.180	20.160	21.260	22.930	24.430	25.420	26.190	27.390	28.330
33	15.720	17.240	17.970	19.950	20.950	22.070	23.780	25.300	26.320	27.100	28.310	29.270
34	16.400	17.950	18.710	20.730	21.750	22.890	24.630	26.180	27.210	28.010	29.240	30.210
35	17.090	18.670	19.440	21.510	22.550	23.710	25.480	27.060	28.110	28.920	30.170	31.160
36	17.780	19.390	20.180	22.290	23.350	24.530	26.340	27.940	29.000	29.830	31.100	32.100
37	18.470	20.120	20.920	23.070	24.150	25.360	27.190	28.820	29.900	30.740	32.030	33.050
38	19.170	20.850	21.670	23.860	24.960	26.180	28.050	29.710	30.800	31.650	32.970	34.000
39	19.870	21.590	22.420	24.650	25.770	27.010	28.910	30.590	31.710	32.570	33.900	34.940
40	20.580	22.330	23.170	25.440	26.580	27.840	29.770	31.480	32.610	33.480	34.830	35.890
41	21.280	23.070	23.930	26.230	27.390	28.680	30.630	32.370	33.510	34.400	35.770	36.840
42	22.000	23.810	24.690	27.030	28.210	29.510	31.500	33.260	34.420	35.320	36.700	37.790
43	22.710	24.560	25.450	27.830	29.020	30.350	32.360	34.150	35.330	36.230	37.640	38.740

N/B	0.01	0.05	0.1	0.5	1	2	5	10	15	20	30	40
44	23.430	25.310	26.220	28.630	29.840	31.190	33.230	35.040	36.230	37.150	38.580	39.690
45	24.150	26.060	26.980	29.440	30.670	32.030	34.100	35.930	37.140	38.070	39.510	40.640
46	24.880	26.820	27.750	30.240	31.490	32.870	34.970	36.830	38.050	39.000	40.450	41.590
47	25.600	27.570	28.520	31.050	32.320	33.720	35.840	37.720	38.960	39.920	41.390	42.540
48	26.340	28.330	29.300	31.860	33.140	34.560	36.720	38.620	39.870	40.840	42.330	43.500
49	27.070	29.100	30.080	32.680	33.970	35.410	37.590	39.520	40.790	41.760	43.270	44.450
50	27.800	29.860	30.860	33.490	34.800	36.260	38.470	40.420	41.700	42.69	44.210	45.400
51	28.540	30.630	31.640	34.310	35.640	37.110	39.350	41.320	42.610	43.610	45.150	46.360
52	29.280	31.400	32.420	35.120	36.470	37.970	40.230	42.220	43.530	44.540	46.100	47.310
53	30.030	32.170	33.210	35.940	37.310	38.820	41.100	43.120	44.440	45.470	47.040	48.270
54	30.770	32.950	33.990	36.760	38.150	39.670	41.990	44.020	45.360	46.390	47.980	49.220
55	31.520	33.720	34.780	37.590	38.990	40.530	42.870	44.930	46.280	47.320	48.930	50.180
56	32.270	34.500	35.570	38.410	39.830	41.390	43.750	45.830	47.200	48.250	49.870	51.130
57	33.030	35.280	36.370	39.240	40.670	42.250	44.640	46.740	48.120	49.180	50.820	52.090
58	33.780	36.060	37.160	40.070	41.510	43.110	45.520	47.640	49.040	50.110	51.760	53.050
59	34.540	36.850	37.960	40.900	42.360	43.970	46.410	48.550	49.960	51.040	52.710	54.010
60	35.300	37.630	38.760	41.730	43.200	44.830	47.290	49.460	50.880	51.970	53.650	54.960
61	36.060	38.420	39.560	42.560	44.050	45.700	48.180	50.370	51.800	52.900	54.600	55.920
62	36.820	39.210	40.360	43.390	44.900	46.560	49.070	51.270	52.720	53.830	55.550	56.880
63	37.590	40.000	41.160	44.230	45.750	47.430	49.960	52.180	53.640	54.770	56.490	57.840
64	38.350	40.800	41.970	45.060	46.600	48.300	50.850	53.100	54.570	55.700	57.440	58.800
65	39.120	41.590	42.780	45.900	47.450	49.160	51.740	54.010	55.490	56.630	58.390	59.760
66	39.890	42.390	43.580	46.740	48.300	50.030	52.640	54.920	56.420	57.570	59.340	60.720
67	40.660	43.180	44.390	47.580	49.160	50.900	53.530	55.830	57.340	58.500	60.290	61.680
68	41.440	43.980	45.200	48.420	50.010	51.770	54.420	56.750	58.270	59.440	61.240	62.640
69	42.210	44.780	46.020	49.260	50.870	52.650	55.320	57.660	59.200	60.370	62.190	63.600
70	42.990	45.580	46.830	50.100	51.730	53.520	56.210	58.570	60.120	61.310	63.140	64.560
71	43.770	46.390	47.640	50.950	52.590	54.390	57.110	59.490	61.050	62.250	64.090	65.520
72	44.550	47.190	48.460	51.790	53.450	55.270	58.010	60.410	61.980	63.180	65.040	66.480
73	45.330	48.000	49.280	52.640	54.310	56.140	58.900	61.320	62.910	64.120	65.990	67.440
74	46.110	48.810	50.100	53.490	55.170	57.020	59.800	62.240	63.840	65.060	66.940	68.400
75	46.900	49.610	50.920	54.340	56.030	57.900	60.700	63.160	64.760	66.000	67.890	69.370
76	47.680	50.420	51.740	55.190	56.890	58.780	61.600	64.070	65.690	66.940	68.850	70.330
77	48.470	51.230	52.560	56.040	57.760	59.650	62.500	64.990	66.630	67.880	69.800	71.290
78	49.260	52.050	53.380	56.890	58.620	60.530	63.400	65.910	67.560	68.820	70.750	72.250
79	50.050	52.860	54.210	57.740	59.490	61.410	64.300	66.830	68.490	69.760	71.700	73.220
80	50.840	53.680	55.030	58.600	60.360	62.300	65.210	67.750	69.420	70.700	72.660	74.180
81	51.630	54.490	55.860	59.450	61.220	63.180	66.110	68.670	70.350	71.640	73.610	75.140
82	52.430	55.310	56.690	60.300	62.090	64.060	67.010	69.590	71.280	72.580	74.570	76.110
83	53.220	56.130	57.520	61.160	62.960	64.940	67.920	70.520	72.220	73.520	75.520	77.070
84	54.020	56.950	58.350	62.020	63.830	65.830	68.820	71.440	73.150	74.460	76.470	78.040
85	54.810	57.770	59.180	62.880	64.700	66.710	69.730	72.360	74.080	75.400	77.430	79.000
86	55.610	58.590	60.010	63.730	65.570	67.600	70.630	73.280	75.020	76.350	78.380	79.970
87	56.410	59.410	60.840	64.590	66.450	68.480	71.540	74.210	75.950	77.290	79.340	80.930
88	57.210	60.230	61.670	65.450	67.320	69.370	72.450	75.130	76.890	78.230	80.300	81.900
89	58.020	61.060	62.510	66.320	68.190	70.260	73.350	76.060	77.820	79.180	81.250	82.860
90	58.820	61.880	63.340	67.180	69.070	71.150	74.260	76.980	78.760	80.120	82.210	83.830

	0.01	0.05	0.1	0.5	1	2	5	10	15	20	30	40
91	59.620	62.710	64.180	68.040	69.940	72.040	75.170	77.910	79.690	81.060	83.160	84.790
92	60.430	63.540	65.020	68.900	70.820	72.920	76.080	78.830	80.630	82.010	84.120	85.760
93	61.230	64.360	65.860	69.770	71.700	73.810	76.990	79.760	81.570	82.950	85.080	86.730
94	62.040	65.190	66.700	70.630	72.570	74.710	77.900	80.690	82.500	83.900	86.030	87.690
95	62.850	66.020	67.540	71.500	73.450	75.600	78.810	81.610	83.440	84.840	86.990	88.660
96	63.660	66.850	68.380	72.360	74.330	76.490	79.720	82.540	84.380	85.790	87.950	89.620
97	64.470	67.690	69.220	73.230	75.210	77.380	80.630	83.470	85.320	86.740	88.910	90.590
98	65.280	68.520	70.060	74.100	76.090	78.270	81.540	84.390	86.260	87.680	89.870	91.560
99	66.090	69.350	70.900	74.970	76.970	79.170	82.460	85.320	87.200	88.630	90.820	92.530
100	66.910	70.190	71.750	75.840	77.850	80.060	83.370	86.250	88.130	89.580	91.780	93.490

**APPENDIX G: LIST OF ANALOGUE TRS SERVICE PROVIDERS IN THE 800MHz  
BAND & THE NUMBERS OF AA HELD (EXTRACTED FROM SRSP 502M) AT THE  
IMPLEMENTATION OF INBAND MIGRATION TO DIGITAL IN JULY 2006**

<b>Client Name</b>	<b>Northern</b>	<b>Eastern</b>	<b>Central</b>	<b>Southern</b>	<b>Sabah</b>	<b>Sarawak</b>	<b>Grand Total</b>
A C H I J A Y A COMMUNICATIONS SDN BHD						44	<b>44</b>
CMRS TRUNK RADIO SDN. BHD.	17	6	49				<b>72</b>
COMETRON SDN.BHD.			25	43			<b>68</b>
ELECTCOMS SDN BHD	233	170	235	142	3	6	<b>789</b>
HASYON TEKNIK SDN. BHD.	15		40	5			<b>60</b>
MAL-TEL COMMUNICATION SDN BHD	10		39				<b>49</b>
PAGER COMMUNICATION SDN. BHD.		30					<b>30</b>
SAMEN TRUNK RADIO SDN. BHD.	5	8	34	30			<b>77</b>
SEGI MAJU SDN BHD	22	24	50	34			<b>130</b>
STARS ASSOCIATED SDN BHD		2	4		13	39	<b>58</b>
STR COMMUNICATION SDN BHD	10	10	5				<b>25</b>
SYARIKAT PELATUS SDN BHD	9	14	93				<b>116</b>
TEXTPHON (M) SDN. BHD.	31	13	17	14			<b>75</b>
WIDENET DISTRIBUTOR SDN BHD	55	30	10	35			<b>130</b>
<b>Grand Total</b>	<b>407</b>	<b>307</b>	<b>601</b>	<b>303</b>	<b>16</b>	<b>89</b>	<b>1723</b>

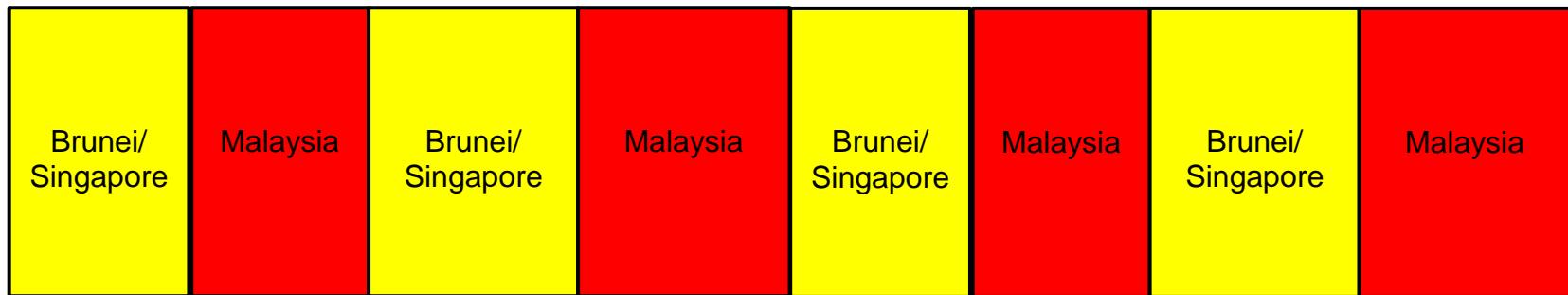
## APPENDIX H: CONDITIONS OF AA

The issuance of the AA in the said band in Blocks A/A', B/B' and C/C' shall be subject to the following conditions:

- (a) that the AA issued shall be cancelled upon the cancellation of the Network Facility Provider Individual Licence of the AA holder;
- (b) that the AA issued shall be suspended upon the suspension of the Network Facility Provider Individual Licence of the AA holder;
- (c) that AA holder shall comply with the Detailed Business Plan submitted to the Commission *in toto* unless modified with the approval of the Commission;
- (d) that there shall be no change in the shareholding of Network Facility Provider Individual Licence holder for a period of five years from the date of issuance of the first AA to the licensee;
- (e) that Network Facility Provider Individual Licence holder shall submit a half yearly report to the Commission outlining the steps taken to implement the Detailed Business Plan as at **30 June** and **31 December** of each year;
- (f) that the performance bond submitted to the Commission shall be valid for the period of the AA; and
- (g) that the Commission is entitled to call on the guarantee provided pursuant to paragraph 6.2.1.2.3 of the SKMM SRSP-537 by the AA holder in the event of non-compliance of the terms and conditions of the AA. The right of the Commission to call on the guarantee is without prejudice to its right to take relevant action against the AA holder under the Act and subsidiary legislation made under it.

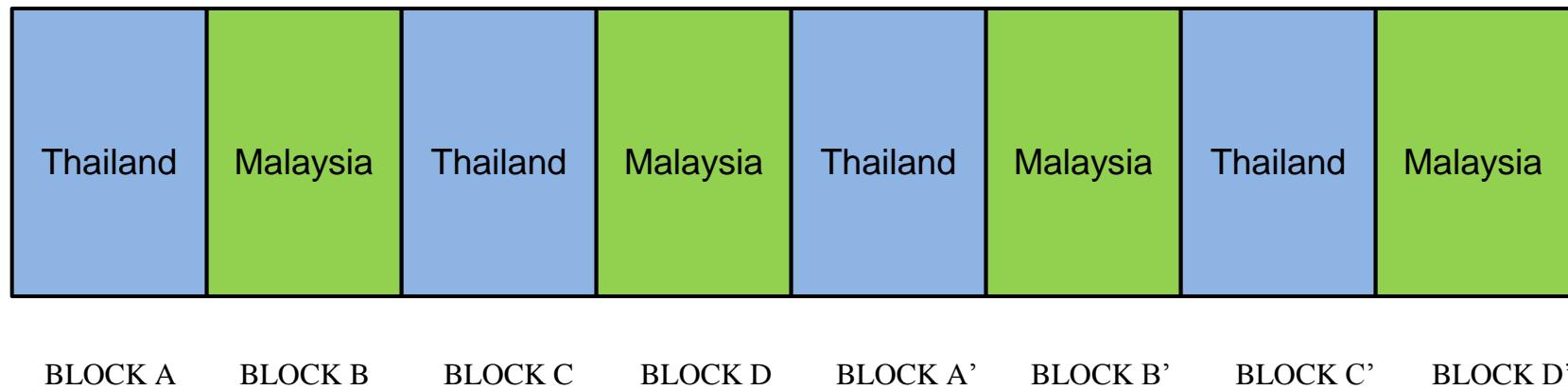
## **APPENDIX I: SPECTRUM ALLOCATION FOR DIGITAL TRUNKED RADIO (MALAYSIA/BRUNEI/SINGAPORE)**

410.00MHz    412.00MHz    414.00MHz    417.00MHz    420.00MHz    422.00MHz    424.00MHz    427.00MHz    430.00MHz

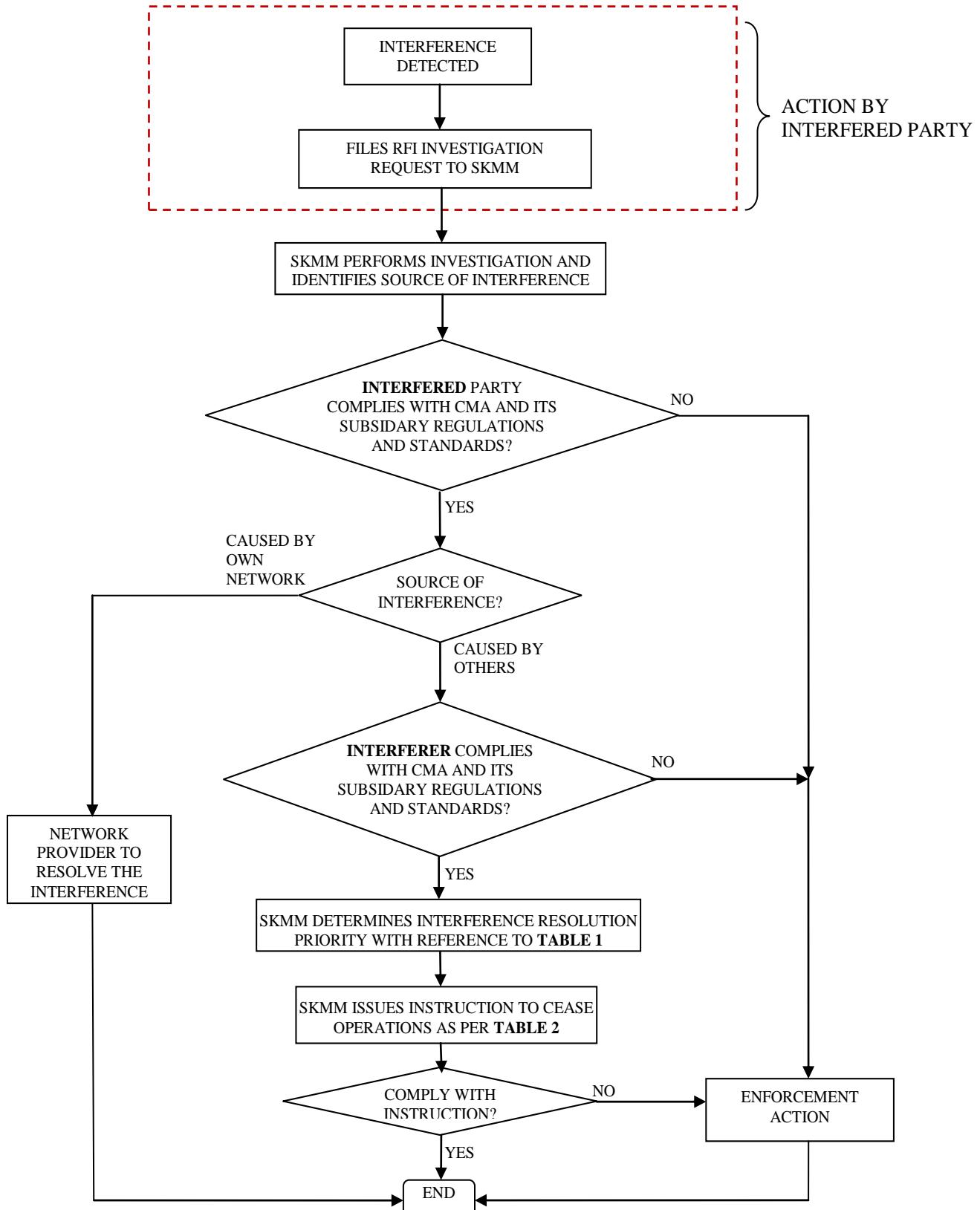


## **APPENDIX J: SPECTRUM ALLOCATION FOR DIGITAL TRUNKED RADIO (MALAYSIA/THAILAND)**

410.00MHz    412.50MHz    415.00MHz    417.50MHz    420.00MHz    422.50MHz    425.00MHz    427.50MHz    430.00MHz



## APPENDIX K: INTERFERENCE RESOLUTION PROCESS



**TABLE 1: INTERFERENCE RESOLUTION PRIORITY**

Resolution Type of Priority		Description
1	Service Priority	Primary has priority over secondary services. Among co-primary or co-secondary services, the stated priority is accorded as in the Spectrum Plan
2	Assignment Type Priority	Spectrum Assignment (SA) and Apparatus Assignment (AA) have equal priority but are of higher priority than Class Assignment (CA)
3	Service Type Priority	In the event where service priority and assignment type priority are equal for affected parties, the following list will determine the priority level for the interference case (the earlier in the list is given higher priority): <ol style="list-style-type: none"> <li>i. Safety or Radionavigation service;</li> <li>ii. Based on the Date of Apparatus Assignment - Priority is given to the earliest/first installation</li> </ol>

**TABLE 2: INTERFERENCE RESOLUTION TIMELINE TO PARTIES**

	Types of interference	Description	Resolution Timeline
1	Harmful	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 CMA (Spectrum) Regulations 2000	To cease* operation immediately within 24 hours or earlier as specified in the notice issued by SKMM
2	Major	Electromagnetic interference rendering any apparatus or services unsuitable for their intended purpose.  For this purpose interference to public correspondence service is considered under this category	To cease* operation within 3 days or earlier as specified in notice issued by SKMM if interference cannot be resolved.
3	Minor	Electromagnetic interference which does not affect the overall operation of any radiocommunications transmission.	To cease* operation within 7 days or earlier as specified in the notice issued by SKMM if interference cannot be resolved

\*Note:

Resumption of operation of the apparatus is not allowed unless the assignment holder submit interference resolution or mitigation plan and complete implementation of the mitigation plan to the satisfaction of SKMM to remove/ avoid the interference.