

| BR IFIC / DATE | BR IFIC / DATE | BR IFIC / FECHA |
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| 2940 / 23.02.2021 | | |
| RES 609 (Rév.CMR-07) | RES 609 (Rev.WRC-07) | RES 609 (Rev.CMR-07) |
| Dix-septième réunion de consultation sur la Résolution 609 (Rév.CMR-07), Réunion virtuelle, octobre 2020 | Seventeenth Resolution 609 (Rev.WRC-07) Consultation Meeting, Virtual meeting, October 2020 | Decimoséptima reunión de consulta sobre la Resolución 609 (Rev.CMR-07), Reunión virtual, octubre de 2020 |
| <p>Les présents renseignements sont publiés par le Bureau conformément <i>au point 3 du charge le Bureau</i>, de la Résolution 609 (Rév.CMR-07) :</p> <p>La Partie A contient la Liste des systèmes du SRNS et le Rapport sur les constatations établi par le Bureau à l'intention des participants à la réunion de consultation chargée de déterminer si le niveau de puissance surfacique visé au <i>point 1 du recommande</i> de la Recommandation 608 (Rév.CMR-07) est dépassé par une station spatiale considérée.</p> <p>La Partie B contient les renseignements publiés au <i>point 8 du décide</i> de la Résolution 609 (Rév.CMR-07), à savoir les résultats concernant la répartition du brouillage cumulatif en application du <i>point 2 du décide</i> de ladite Résolution, que ces résultats correspondent ou non à des modifications éventuelles des caractéristiques publiées de leurs systèmes ou réseaux respectifs.</p> | <p>This information is published by the Bureau in accordance with <i>instructs the Bureau 3 of</i> Resolution 609 (Rev.WRC-07):</p> <p>Part A includes the List of RNSS systems and the Report of the findings by the Bureau to the participants of the Consultation meeting on the determination of whether the power flux-density level in <i>recommends 1</i> of Recommendation 608 (Rev.WRC-07) is exceeded by any subject space station.</p> <p>Part B includes the information referred to in <i>resolves 8</i> of the Resolution 609 (Rev.WRC-07), as results of any aggregate sharing determinations made in application of <i>resolves 2</i> of the Resolution 609 (Rev.WRC-07), without regard to whether such determinations result in any modifications to the published characteristics of their respective systems or networks.</p> | <p>Esta información se publica por la Oficina con arreglo al <i>encarga a la Oficina 3</i> de la Resolución 609 (Rev.CMR-07):</p> <p>La Parte A incluye la lista de sistemas del SRNS y el Informe de las conclusiones de la Oficina dirigido a los participantes de la reunión de consulta para determinar si el nivel de densidad de flujo de potencia indicado en el <i>recomienda 1</i> de la Recomendación 608 (Rev.CMR-07) es rebasado por alguna estación espacial en cuestión.</p> <p>La Parte B incluye la información a la que se refiere el <i>resuelve 8</i> de la Resolución 609 (Rev.CMR-07), como resultado de cualquier decisión sobre compartición combinada tomada en aplicación del <i>resuelve 2</i> de la Resolución 609 (Rev.CMR-07), sin tener en cuenta si dichas decisiones tienen como resultado cualquier modificación en las características publicadas de sus respectivos sistemas o redes.</p> |



国际电信联盟
无线电通信局

МЕЖДУНАРОДНЫЙ СОЮЗ ЭЛЕКТРОСВЯЗИ
БЮРО РАДИОСВЯЗИ

الاتحاد الدولي للاتصالات
مكتب الاتصالات الراديوية

| 无线电通信局国际频率信息通报 / 日期 | ИФИК БР / ДАТА | النشرة الإعلامية الدولية للترددات/ رقمها وتاريخها |
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| 2940 / 23.02.2021 | | |
| 第 609 号决议 (WRC-07 修订版) | РЕЗ 609 (Пересм. ВКР-07) | القرار 609 (Rev.WRC-07) |
| 第 609 号决议 (WRC-07, 修订版) 第十七次磋商会议 虚拟会议, 2020 年 10 月 | Семнадцатое консультативное собрание по Резолюции 609 (Пересм. ВКР-07), виртуальное собрание, октябрь 2020 года | الاجتماع التشاوري السابع عشر بشأن القرار 609 (Rev.WRC-07)، اجتماع افتراضي، أكتوبر 2020 |
| <p>无线电通信局根据第 609 号决议 (WRC-07 修订版) 责成无线电通信局 3 公布本信息:</p> <p>A 部分包括卫星无线电导航业务 (RNSS) 系统列表和无线电通信局向参加磋商会议的与会者提供的该局的审查结果报告。磋商会议旨在确定第 608 号建议 (WRC-07 修订版) 建议 1 中的功率通量密度限值是否被某个特定空间台站所超过。</p> <p>B 部分 包括第 609 号决议 (WRC-07 修订版) 做出决议 8 所列的信息, 即有关执行第 609 号决议 (WRC-07 修订版) 作出决议 2 中的集总干扰分摊的确定结果, 不论这一确定结果是否修改其各自系统或网络的已公布特性。</p> | <p>Настоящая информация публикуется Бюро в соответствии с п. 3 раздела "поручает Бюро" Резолюции 609 (Пересм.ВКР-07):</p> <p>Часть А содержит список систем РНСС, а также Отчет участникам консультативного собрания о заключениях Бюро относительно определения, превышает ли уровень потока мощности, определенный в п.1 раздела "рекомендует" Рекомендации 608 (Пересм.ВКР-07), какой-либо из рассматриваемых космических станций или нет.</p> <p>Часть В содержит информацию, о которой идет речь в п. 8 раздела "решает" Резолюции 609 (Пересм.ВКР-07) и которая является результатом любого определения условий совместного использования суммарного допустимого уровня согласно пункту 2 раздела "решает" Резолюции 609 (Пересм.ВКР-07), независимо от того, достигнуты ли эти результаты путем изменения объявленных характеристик их соответствующих систем или сетей или нет.</p> | <p>ينشر المكتب هذه المعلومات وفقاً للبند 3 من "يكلف مكتب الاتصالات الراديوية" في القرار 609 (Rev.WRC-07):</p> <p>يتضمن الجزء A قائمة بأنظمة خدمة الملاحة الراديوية الساتلية وتقريراً أعده المكتب يتضمن النتائج التي توصل إليها موجهاً للمشاركين في هذا الاجتماع التشاوري المكلف بتحديد ما إذا كانت حدود كثافة تدفق القدرة المنصوص عليها في البند 1 من "يوصي" في التوصية 608 (Rev.WRC-07) قد تجاوزتها أي محطة من المحطات الفضائية المعنية.</p> <p>ويتضمن الجزء B المعلومات المشار إليها في البند 8 من منطوق القرار 609 (Rev.WRC-07)، أي نتائج ترتيبات التقاسم التراكمي التي يتم التوصل إليها تنفيذاً للبند 2 من منطوق القرار 609 (Rev.WRC-07)، بغض النظر عما إذا كانت هذه الترتيبات سيسفر عنها أي تعديلات في الخصائص المنشورة لأنظمة الإدارات المعنية وشبكاتهما.</p> |

| PARTIE A | PART A | PARTE A |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Liste des systèmes du SRNS et Rapport sur les conclusions établi par le Bureau à l'intention des participants à la réunion de consultation chargée de déterminer si le niveau de puissance surfacique visé au point 1 du <i>recommande</i> de la Recommandation 608 (Rév.CMR-07) est dépassé par une station spatiale considérée. | List of the RNSS systems and Report of the findings by the Bureau to the participants of the Consultation meeting on the determination of whether the power flux-density level in <i>recommends 1</i> of Recommendation 608 (Rev.WRC-07) is exceeded by any subject space station. | Lista de sistemas del SRNS e Informe de las conclusiones de la Oficina dirigido a los participantes de la reunión de consulta para determinar si el nivel de densidad de flujo de potencia del <i>recomienda 1</i> de la Recomendación 608 (Rev.CMR-07) es rebasado por alguna de las estaciones espaciales en cuestión. |
| Aux termes du <i>point 1 du recommande</i> de la Recommandation 608 (Rév.CMR-07), lors de l'application des dispositions du <i>point 5 du décide</i> de la Résolution 609 (Rév.CMR-07), dans la bande 1 164 – 1 215 MHz, la puissance surfacique maximale rayonnée à la surface de la Terre par les émissions d'une station spatiale du SRNS, pour tous les angles d'arrivée, ne dépasse pas -129 dB(W/m ²) dans une bande quelconque de 1 MHz dans des conditions de propagation en espace libre. | Recommendation 608 (Rev.WRC-07) <i>recommends 1</i> , indicates that in the implementation of <i>resolves 5</i> of Resolution 609 (Rev.WRC-07), in the frequency band 1 164 – 1 215 MHz, the maximum power flux-density produced at the surface of the Earth by emissions from a space station in the radionavigation-satellite service, for all angles of arrival, should not exceed -129 dB(W/m ²) in any 1 MHz band under free space propagation conditions. | La Recomendación 608 (Rev.CMR-07) en su <i>recomienda 1</i> señala que en la aplicación del <i>resuelve 5</i> de la Resolución 609 (Rev.CMR-07), en la banda de frecuencias 1 164 – 1 215 MHz, la máxima densidad de flujo de potencia producida en la superficie de la Tierra por las emisiones de una estación espacial del servicio de radionavegación por satélite, para todos los ángulos de llegada, no deberá superar -129 dB(W/m ²) en cualquier banda de 1 MHz en condiciones de propagación en espacio libre. |

| A 部分 | ЧАСТЬ А | الجزء A |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 卫星无线电导航业务（RNSS）系统列表和无线电通信局向参加磋商会议的与会者提供的该局的审查结果报告。磋商会议旨在确定第 608 号建议（WRC-07，修订版）做出建议 1 中的功率通量密度限值是否被某个所述空间电台所超出。 | Список систем РНСС, а также Отчет участникам консультативного собрания о заключениях Бюро относительно определения, превышает ли уровень плотности потока мощности, определенный в п. 1 раздела <i>рекомендует</i> Рекомендации 608 (Пересм. ВКР-07), какой-либо из рассматриваемых космических станций или нет. | قائمة بأنظمة خدمة الملاحة الراديوية الساتلية وتقرير أعده المكتب يتضمن النتائج التي توصل إليها موجه للمشاركين في هذا الاجتماع التشاوري المكلف بتحديد ما إذا كانت حدود كثافة تدفق القدرة المنصوص عليها في البند 1 من "يوصي" في التوصية (Rev.WRC-07) 608 قد تجاوزتها أي محطة من المحطات الفضائية المعنية. |
| 第 608 号建议（WRC-07 修订版）建议 1 指出，在执行第 609 号决议（WRC-07 修订版）做出决议第 5 段时，在 1 164-1 215MHz 频带内和在所有到达角上，卫星无线电导航业务空间电台的发射在地球表面产生的最大功率通量密度，在自由空间传播条件下，在任何 1MHz 频带内，不得超过 -129 dB (W/m ²)。 | В п.1 раздела " <i>рекомендует</i> " Рекомендации 608 (Пересм.ВКР-07) указывается, что при применении пункта 5 раздела " <i>решает</i> " Резолюции 609 (Пересм.ВКР-07) в полосе частот 1 164–1 215 МГц максимальная плотность потока мощности, создаваемая у поверхности Земли излучениями космической станции радионавигационной спутниковой службы, для всех углов прихода не должна превышать -129 дБ(Вт/м ²) в любой полосе шириной 1 МГц при условиях распространения в свободном пространстве. | ينص البند 1 من "يوصي" في التوصية (Rev.WRC-07) 608 على أنه، في تطبيق البند 5 من منطوق القرار (Rev.WRC-07) 609، ينبغي ألا تتجاوز كثافة تدفق القدرة القصوى الناتجة عند سطح الأرض عن إرسالات محطة فضائية في خدمة الملاحة الراديوية الساتلية في نطاق الترددات 1 164 – 1 215 MHz، القيمة -129 dB(W/m ²)، وفي أي نطاق يبلغ 1 MHz، لجميع زوايا الوصول، وفي ظروف الانتشار في الفضاء الحر. |

**Liste des systèmes du SRNS – Description des colonnes / List of the RNSS systems - Description of the columns /
Listas de los sistemas del SRNS - Descripción de las columnas**

| Item | Description | Description | Descripción |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ntc_id | Numéro d'identification du réseau à satellite | Identification number of the network | BR Número de identificación de la red |
| adm | Administration notificatrice (voir le Tableau 1 de la Préface) | Notifying administration (Refer to Table 1 of the Preface) | Administración notificante (véase el cuadro 1 del Prefacio) |
| ntw_org | Organisation Intergouvernementale de Satellite | Intergovernmental Satellite Organization | Organización Intergubernamental de Satélite |
| sat_name | Identité du réseau à satellite | Identity of the satellite network | Identidad de la red de satélite |
| long_nom | Longitude nominale d'une station spatiale géostationnaire (degré) | Nominal longitude of a geostationary space station (degree) | Longitud nominal de una estación espacial geoestacionaria (grado) |
| ntf_rsn | A = Réseau au stade API C = Réseau au stade de la coordination N = Réseau au stade de la notification | A = Network in API stage C = Network in coordination stage N = Network in notification stage | B = Red en etapa de API C = Red en etapa de coordinación N = Red en etapa de notificación |
| d_rcv | Date de réception | Date of receipt | Fecha de recepción |
| sns_ref+ssn_no | Référence aux Sections Spéciales | Reference to Special Sections | Referencia a las Secciones Especiales |
| ific_no | Numéro de la BR IFIC | BR IFIC number | Número de la BR IFIC |
| dBiU | Date of bringing into use | Date de mise en service | Fecha de puesta en servicio |
| Annex to RES-609 | Systèmes du SRNS ayant des assignations de fréquence dans la bande 1 164 – 1 215 MHz pour lesquels les informations demandées dans l'Annexe de la Résolution 609 ont été fournies à la réunion de consultation. | RNSS systems with frequency assignments in the band 1 164-1 215 MHz for which Annex to Resolution 609 information has been provided to the Consultation meeting. | Sistemas del SRNS con asignaciones de frecuencias en la banda 1 164 - 1 215 MHz para los cuales se ha proporcionado la información de la Resolución 609 a la reunión de consulta. |
| BR Report (RES 609 instructs the Bureau 2) | Rapport du Bureau contenant des conclusions relatives à la détermination des valeurs de puissance surfacique indiquées sous <i>recommande 1</i> de la Recommandation 608 (Rév.CMR-07) en utilisant les informations demandées au titre de l'Annexe 1 de ladite Recommandation. | Bureau's Report with findings relating to determination of the PFD values indicated in <i>recommends 1</i> of Recommendation 608 (rev.WRC-07) using Annex 1 information of this Recommendation. | Informe de la Oficina con las conclusiones relativas a la determinación de los valores de DFP indicados en el <i>recomienda 1</i> de la Recomendación 608 (Rev.CMR-07) utilizando la información del Anexo 1 de esta Recomendación. |

RNSS 系统列表 – 栏目描述 / Список систем РНСС – Описание столбцов /

قائمة بأنظمة خدمة الملاحة الراديوية الساتلية – وصف الأعمدة

| Item | 描述 | Описание | الوصف |
|--------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ntc_id | 卫星网络标识号码 | Идентификационный номер спутниковой сети | رقم هوية الشبكة الساتلية |
| adm | 通知主管部门（参阅前言表 1） | Заявляющая администрация (см. таблицу 1 Предисловия) | الإدارة المبلغة (انظر الجدول 1 في المقدمة) |
| ntw_org | 政府间卫星组织 | Межправительственная спутниковая организация | منظمة ساتلية دولية حكومية |
| sat_name | 卫星网络的标识 | Название спутниковой сети | هوية الشبكة الساتلية |
| long_nom | 静止空间台站标称经度（度） | Номинальная долгота геостационарной космической станции (градусы) | خط الطول الاسمي لمحطة فضائية مستقرة بالنسبة إلى الأرض (بالدرجات) |
| ntf_rsn | A= 处于 API 阶段的网络 C= 处于协调阶段的网络 N= 处于通知阶段的网络 | A = Сеть на этапе API C = Сеть на этапе координации N = Сеть на этапе заявления | A = شبكة في مرحلة "معلومات النشر المسبق" C = شبكة في مرحلة التنسيق N = شبكة في مرحلة التبليغ |
| d_rev | 收到日期 | Дата получения | تاريخ الاستلام |
| sns_ref+ssn_no | 引证特节 | Ссылка на Специальные секции | إحالة إلى الأقسام الخاصة |
| ific_no | 无线电通信局国际频率信息通报编号 | Номер ИФИК БР | رقم النشرة الإعلامية الدولية للترددات |
| dBiU | 启用日期 | Дата ввода в действие | تاريخ الدخول في الخدمة |
| Annex to RES-609 | 在 1164-1215MHz 频带内有频率指配的、第 609 号决议（WRC-03）附件中所要求的信息已提供给磋商会议的 RNSS 系统 | Системы РНСС с присвоениями в полосе частот 1164–1215 МГц, по которым информация в соответствии с Дополнением к Резолюции 609 представлена консультативному собранию. | أنظمة خدمة الملاحة الراديوية الساتلية التي لها تخصيصات تردد في النطاق 1164 - 1215 MHz تم بشأنها تقديم المعلومات المطلوبة في الملحق بالقرار 609 إلى الاجتماع التشاوري. |
| BR Report (RES 609 instructs the Bureau 2) | 无线电通信局的报告，包括该局通过使用第 608 号建议（WRC-07 修订版）附件 1 建议 1 的信息做出的有关功率通量密度值的确定结果 | Отчет Бюро с заключениями относительно определения значений ППМ, обозначенных в п. 1 раздела "рекомендует" Рекомендации 608 (rev.ВКР-07) с использованием информации Дополнения 1 к данной Рекомендации. | تقرير المكتب الذي يتضمن النتائج المحددة بشأن قيم كثافة تدفق القدرة المبينة في البند 1 من "يوصي" في التوصية (rev.WRC-07) 608، باستعمال المعلومات المطلوبة في الملحق 1 بالتوصية المذكورة. |

ANNEX 1

List of the RNSS systems (as of 21.04.2020) with frequency assignments in the band 1 164-1 215 MHz that meet the criteria listed in Annex to RES 609 (Rev.WRC-07) and Bureau's Report with findings relating to determination of the PFD values

| ntc_id | adm | ntwk_org | sat_name | long_nom | ntf_rsn | d_rcv | pub_ref | pub_no | ific_no | dBu | Annex to RES-609 * | BR Report ** (instructs the Bureau 2 of RES 609) |
|-----------|-----|----------|-------------------|----------|---------|------------|---------|--------|---------|------------|--------------------|-----------------------------------------------------|
| 113520121 | ALG | | ALCOMSAT-24.8W | -24.8 | C | 29.05.2013 | CR/C | 3389 | 2766 | | 11th meeting | N |
| 118500307 | ALG | | ALCOMSAT-24.8W | -24.8 | N | 17.05.2018 | PART | III-S | 2917 | 18.12.2017 | 11th meeting | N |
| 119520141 | ARS | ARB | ARABSAT-9A-30.5E | 30.5 | C | 09.06.2019 | CR/C | 5045 | 2905 | | — | Y |
| 117520218 | ARS | ARB | ARABSAT-9AS-81.5E | 81.5 | C | 26.06.2017 | CR/C | 4515 | 2863 | | — | Y |
| 119520142 | ARS | ARB | ARABSAT-9B-26E | 26 | C | 10.06.2019 | CR/C | 5046 | 2905 | | — | Y |
| 119520143 | ARS | ARB | ARABSAT-9C-20E | 20 | C | 10.06.2019 | CR/C | 5047 | 2905 | | — | Y |
| 119520144 | ARS | ARB | ARABSAT-9E-34.5E | 34.5 | C | 10.06.2019 | CR/C | 5048 | 2905 | | — | Y |
| 117520216 | ARS | ARB | ARABSAT-9F-44.5E | 44.5 | C | 26.06.2017 | CR/C | 4513 | 2863 | | — | Y |
| 119520145 | ARS | ARB | ARABSAT-9G-11E | 11 | C | 10.06.2019 | CR/C | 5049 | 2905 | | — | Y |
| 117520215 | ARS | ARB | ARABSAT-9L-1E | 1 | C | 26.06.2017 | CR/C | 4514 | 2863 | | — | Y |
| 117520217 | ARS | ARB | ARABSAT-9M-67.5E | 67.5 | C | 26.06.2017 | CR/C | 4516 | 2863 | | — | Y |
| 119520094 | AUS | | ADF 104E IOR | 104 | C | 28.03.2019 | CR/C | 5012 | 2902 | | — | Y |
| 119520095 | AUS | | ADF 140E POR | 140 | C | 28.03.2019 | CR/C | 5011 | 2902 | | — | Y |
| 119520096 | AUS | | ADF 156E POR | 156 | C | 28.03.2019 | CR/C | 5013 | 2902 | | — | Y |
| 119520093 | AUS | | ADF 88E IOR | 88 | C | 28.03.2019 | CR/C | 5009 | 2902 | | — | Y |
| 119520092 | AUS | | ADF 95E IOR | 95 | C | 28.03.2019 | CR/C | 5010 | 2902 | | — | Y |
| 118520162 | CHN | | CENTISPACE-1 | N-GSO | C | 06.07.2018 | CR/C | 4801 | 2882 | | 17th meeting | N |
| 118520283 | CHN | | CENTISPACE-2 | N-GSO | C | 11.09.2018 | CR/C | 4847 | 2886 | | — | N |
| 103500418 | CHN | | COMPASS-110.5E | 110.5 | N | 17.10.2007 | PART | II-S | 2681 | 17.08.2006 | 11th meeting | N |
| 103500419 | CHN | | COMPASS-140E | 140 | N | 17.10.2007 | PART | II-S | 2684 | 17.10.2006 | 11th meeting | N |
| 109500803 | CHN | | COMPASS-160E | 160 | N | 16.12.2010 | PART | II-S | 2701 | 16.11.2010 | 11th meeting | N |
| 103500416 | CHN | | COMPASS-58.75E | 58.75 | N | 17.10.2007 | PART | II-S | 2687 | 08.12.2006 | 11th meeting | N |
| 114520052 | CHN | | COMPASS-80.3E | 80.3 | C | 25.02.2014 | CR/C | 3567 | 2791 | | — | N |
| 119500339 | CHN | | COMPASS-80.3E | 80.3 | N | 15.11.2019 | PART | I-S | 2916 | 15.12.2018 | — | N |
| 103500417 | CHN | | COMPASS-80E | 80 | N | 17.10.2007 | PART | II-S | 2689 | 17.06.2006 | 11th meeting | N |
| 111520204 | CHN | | COMPASS-B-144.5E | 144.5 | C | 31.05.2011 | CR/C | 2934 | 2741 | | 11th meeting | Y |
| 116500154 | CHN | | COMPASS-B-144.5E | 144.5 | N | 16.08.2019 | PART | II-S | 2909 | 16.06.2016 | 11th meeting | Y |
| 111520203 | CHN | | COMPASS-B-84E | 84 | C | 31.05.2011 | CR/C | 2933 | 2741 | | 11th meeting | Y |
| 116500153 | CHN | | COMPASS-B-84E | 84 | N | 16.10.2019 | PART | II-S | 2915 | 27.06.2016 | 11th meeting | Y |
| 103500420 | CHN | | COMPASS-H | N-GSO | N | 05.01.2004 | PART | II-S | 2596 | 26.03.2007 | 11th meeting | N |
| 112520031 | CHN | | COMPASS-IGSO | N-GSO | C | 18.02.2012 | CR/C | 3118 | 2741 | | 11th meeting | N |
| 119500340 | CHN | | COMPASS-IGSO | N-GSO | N | 15.11.2019 | PART | I-S | 2915 | 18.12.2017 | 11th meeting | N |

| ntc_id | adm | ntwk_org | sat_name | long_nom | ntf_rsn | d_rev | pub_ref | pub_no | ific_no | dBiu | Annex to RES-609 * | BR Report ** (instructs the Bureau 2 of RES 609) |
|-----------|-----|----------|--------------------|----------|---------|------------|---------|--------|---------|------------|--------------------|-----------------------------------------------------|
| 103500421 | CHN | | COMPASS-M | N-GSO | N | 31.12.2003 | PART | II-S | 2596 | 16.04.2007 | 11th meeting | N |
| 110520285 | CHN | | COMPASS-MEO | N-GSO | C | 01.10.2010 | CR/C | 2740 | 2742 | | 11th meeting | N |
| 118512043 | CHN | | COMPASS-MEO | N-GSO | N | 17.10.2018 | PART | III-S | 2908 | 25.07.2015 | 11th meeting | N |
| 101500300 | D | GLS | GALILEO-NAV-2004 | N-GSO | N | 02.08.2001 | PART | II-S | 2582 | 03.03.2006 | 2d meeting | N |
| 117520117 | F | | F-SAT-RN-113W | -113 | C | 17.02.2017 | CR/C | 4451 | 2854 | | — | Y |
| 117520381 | F | | F-SAT-RN-5W | -5 | C | 17.10.2017 | CR/C | 4593 | 2868 | | 16th meeting | N |
| 109520327 | F | GLS | GALILEO-2 | N-GSO | C | 18.12.2009 | CR/C | 2542 | 2796 | | 10th meeting | N |
| 119500116 | F | GLS | GALILEO-2 | N-GSO | N | 27.03.2017 | PART | II-S | 2909 | 27.03.2015 | 10th meeting | N |
| 100500321 | F | GLS | MSATNAV-2 | N-GSO | N | 04.10.2000 | PART | II-S | 2588 | 03.03.2006 | 2d meeting | N |
| 101500014 | F | GLS | MSATNAV-3 | N-GSO | N | 30.01.2001 | PART | II-S | 2588 | 03.03.2006 | 2d meeting | N |
| 103500093 | F | GLS | MSATNAV-4 | N-GSO | N | 28.04.2003 | PART | II-S | 2588 | 03.03.2006 | 2d meeting | N |
| 116520115 | G | | GIBSAT-G14-2 | -129 | C | 03.05.2016 | CR/C | 4088 | 2832 | | — | Y |
| 109500230 | G | | INMARSAT GSO-2N | 64 | N | 02.08.2010 | PART | II-S | 2696 | 31.12.2004 | 11th meeting | N |
| 115500221 | G | | INMARSAT-4 143.5E | 143.5 | N | 12.01.2012 | PART | II-S | 2725 | 01.07.2008 | 11th meeting | N |
| 110500194 | G | | INMARSAT-4 98W | -98 | N | 28.06.2010 | PART | II-S | 2710 | 07.01.2009 | 11th meeting | N |
| 115500141 | G | | INMARSAT-4A 143.5E | 143.5 | N | 02.10.2015 | PART | II-S | 2825 | 19.02.2014 | 11th meeting | N |
| 114500078 | G | | INMARSAT-4A 98W | -98 | N | 30.06.2011 | PART | II-S | 2822 | 07.01.2009 | 11th meeting | N |
| 115520009 | G | | INMARSAT-4B 64E | 64 | C | 19.02.2015 | CR/C | 3773 | 2816 | | 11th meeting | N |
| 119500194 | G | | INMARSAT-4B 64E | 64 | N | 16.08.2019 | PART | III-S | 2917 | 06.12.2015 | — | N |
| 116520191 | G | | INMARSAT-6-108.5E | 108.5 | C | 13.07.2016 | CR/C | 4157 | 2838 | | — | N |
| 118520061 | G | | INMARSAT-6-117E5 | 117.5 | C | 07.03.2018 | CR/C | 4705 | 2875 | | — | N |
| 116520192 | G | | INMARSAT-6-147E | 147 | C | 13.07.2016 | CR/C | 4158 | 2838 | | — | N |
| 116520185 | G | | INMARSAT-6-147W | -147 | C | 13.07.2016 | CR/C | 4161 | 2838 | | — | N |
| 118520063 | G | | INMARSAT-6-148W | -148 | C | 07.03.2018 | CR/C | 4704 | 2875 | | — | N |
| 118520138 | G | | INMARSAT-6-159W | -159 | C | 17.05.2018 | CR/C | 4772 | 2880 | | — | N |
| 116520187 | G | | INMARSAT-6-17.5W | -17.5 | C | 13.07.2016 | CR/C | 4159 | 2838 | | — | N |
| 116520184 | G | | INMARSAT-6-175W | -175 | C | 13.07.2016 | CR/C | 4162 | 2838 | | — | N |
| 116520188 | G | | INMARSAT-6-21.5E | 21.5 | C | 13.07.2016 | CR/C | 4154 | 2838 | | — | N |
| 118520062 | G | | INMARSAT-6-28W | -28 | C | 07.03.2018 | CR/C | 4703 | 2875 | | — | N |
| 116520186 | G | | INMARSAT-6-57W | -57 | C | 13.07.2016 | CR/C | 4160 | 2838 | | — | N |
| 116520189 | G | | INMARSAT-6-58E | 58 | C | 13.07.2016 | CR/C | 4155 | 2838 | | — | N |
| 118520080 | G | | INMARSAT-6-83E5 | 83.5 | C | 13.03.2018 | CR/C | 4714 | 2877 | | — | N |
| 116520190 | G | | INMARSAT-6-86E | 86 | C | 13.07.2016 | CR/C | 4156 | 2838 | | — | N |
| 114520020 | G | | UKJKSAT-2 | 21.5 | C | 28.01.2014 | CR/C | 3548 | 2790 | | — | N |
| 117520079 | HOL | | NSS-G7 135W | -135 | C | 01.01.2017 | CR/C | 4398 | 2851 | | — | Y |
| 117520080 | HOL | | NSS-G7 137W | -137 | C | 01.01.2017 | CR/C | 4399 | 2851 | | — | Y |
| 117520082 | HOL | | NSS-G7 77W | -77 | C | 01.01.2017 | CR/C | 4397 | 2851 | | — | Y |
| 118520294 | HOL | | NSS-G8 139W | -139 | C | 01.10.2018 | CR/C | 4858 | 2889 | | — | Y |

| ntc_id | adm | ntwk_org | sat_name | long_nom | ntf_rsn | d_rev | pub_ref | pub_no | ific_no | dBiU | Annex to RES-609 * | BR Report ** (instructs the Bureau 2 of RES 609) |
|-----------|-----|----------|-------------------|----------|---------|------------|---------|--------|---------|------------|--------------------|-----------------------------------------------------|
| 118520295 | HOL | | NSS-G8 157W | -157 | C | 01.10.2018 | CR/C | 4859 | 2889 | | — | Y |
| 117520471 | HOL | | NSS-G8-137W | -137 | C | 12.12.2017 | CR/C | 4638 | 2872 | | — | Y |
| 119520077 | I | | ITASAT-1A | 27 | C | 19.03.2019 | CR/C | 5004 | 2902 | | — | N |
| 117520475 | I | | ITASAT-1B | 10 | C | 18.12.2017 | CR/C | 4646 | 2872 | | — | N |
| 116520110 | I | | NEWSAT-1A-1E | 1 | C | 15.06.2016 | CR/C | 4146 | 2837 | | — | N |
| 103500082 | I | GLS | GALILEO-M-NAVSTAR | N-GSO | N | 31.03.2003 | PART | II-S | 2639 | 03.03.2006 | 2d meeting | N |
| 116500029 | IND | | INSAT-NAV(55) | 55 | N | 24.02.2016 | PART | II-S | 2834 | 09.07.2013 | 10th meeting | N |
| 114520069 | IND | | INSAT-NAV(93.5) | 93.5 | C | 05.03.2014 | CR/C | 3580 | 2778 | | — | N |
| 119500107 | IND | | INSAT-NAV(93.5) | 93.5 | N | 03.05.2019 | PART | II-S | 2901 | 04.08.2016 | — | N |
| 112500274 | IND | | INSAT-NAV-A-GS | N-GSO | N | 23.11.2012 | PART | II-S | 2744 | 30.04.2012 | 10th meeting | N |
| 117520274 | IND | | INSAT-NAV-GS17 | N-GSO | C | 17.07.2017 | CR/C | 4544 | 2866 | | 15th meeting | N |
| 112520046 | IND | | INSAT-NAVR(120.5) | 120.5 | C | 22.01.2012 | CR/C | 3124 | 2789 | | 10th meeting | N |
| 112520051 | IND | | INSAT-NAVR(129.5) | 129.5 | C | 22.01.2012 | CR/C | 3129 | 2789 | | 10th meeting | N |
| 119500343 | IND | | INSAT-NAVR(129.5) | 129.5 | N | 24.10.2019 | PART | I-S | 2912 | 08.05.2016 | 10th meeting | N |
| 112520044 | IND | | INSAT-NAVR(32.5) | 32.5 | C | 22.01.2012 | CR/C | 3122 | 2789 | | 10th meeting | N |
| 119500068 | IND | | INSAT-NAVR(32.5) | 32.5 | N | 07.03.2019 | PART | I-S | 2909 | 20.03.2016 | 10th meeting | N |
| 117500127 | IND | | INSAT-NAVR(83) | 83 | N | 02.06.2017 | PART | I-S | 2848 | 26.07.2015 | 10th meeting | N |
| 112520052 | IND | | INSAT-NAVR-GS | N-GSO | C | 22.01.2012 | CR/C | 3121 | 2741 | | 10th meeting | N |
| 116500272 | IND | | INSAT-NAVR-GS | N-GSO | N | 20.10.2016 | PART | I-S | 2871 | 21.08.2016 | 10th meeting | N |
| 104500548 | J | | N-SAT-HEO2 | N-GSO | N | 28.12.2004 | PART | II-S | 2603 | 28.12.2007 | 10th meeting | Y |
| 112520494 | J | | QZSS | N-GSO | C | 28.12.2012 | CR/C | 3322 | 2743 | | 10th meeting | Y |
| 116500181 | J | | QZSS | N-GSO | N | 18.01.2019 | PART | II-S | 2914 | 01.06.2017 | 10th meeting | Y |
| 110500199 | J | | QZSS-1 | N-GSO | N | 27.01.2012 | PART | II-S | 2724 | 31.08.2013 | 10th meeting | Y |
| 118520073 | J | | QZSS-A | N-GSO | C | 31.08.2018 | CR/C | 4720 | 2901 | | 16th meeting | Y |
| 112520497 | J | | QZSS-GS4 | 127 | C | 28.12.2012 | CR/C | 3319 | 2794 | | 10th meeting | Y |
| 117500337 | J | | QZSS-GS4 | 127 | N | 18.01.2019 | PART | II-S | 2916 | 29.08.2017 | 10th meeting | Y |
| 118520075 | J | | QZSS-GS-A1 | 90.5 | C | 13.03.2018 | CR/C | 4715 | 2877 | | — | Y |
| 118520076 | J | | QZSS-GS-A3 | 123 | C | 13.03.2018 | CR/C | 4716 | 2877 | | — | Y |
| 118520077 | J | | QZSS-GS-A4 | 127 | C | 13.03.2018 | CR/C | 4717 | 2877 | | — | Y |
| 118520078 | J | | QZSS-GS-A5 | 137 | C | 13.03.2018 | CR/C | 4718 | 2877 | | — | Y |
| 118520079 | J | | QZSS-GS-A8 | 168 | C | 13.03.2018 | CR/C | 4719 | 2877 | | — | Y |
| 118520087 | KOR | | KOREASAT-128.2E | 128.2 | C | 28.03.2018 | CR/C | 4726 | 2878 | | — | Y |
| 116520022 | LUX | | LUX-G10-37-A | -135 | C | 17.06.2016 | CR/C | 4147 | 2837 | | — | Y |
| 109520247 | LUX | | LUX-G6-2-E | 5 | C | 22.10.2009 | CR/C | 2483 | 2683 | | 7th meeting | N |
| 117500155 | LUX | | LUX-G6-2-E | 5 | N | 19.12.2018 | PART | II-S | 2897 | 05.11.2015 | 7th meeting | N |
| 117520034 | LUX | | LUX-G7 105W | -105 | C | 01.01.2017 | CR/C | 4370 | 2851 | | — | Y |
| 111520428 | LUX | | LUX-G7-9-E2 | 31.5 | C | 01.12.2011 | CR/C | 3062 | 2733 | | 9th meeting | N |
| 119500102 | LUX | | LUX-G7-9-E2 | 31.5 | N | 25.04.2019 | PART | III-S | 2906 | 15.09.2017 | 9th meeting | N |

| ntc_id | adm | ntwk_org | sat_name | long_nom | ntf_rsn | d_rev | pub_ref | pub_no | ific_no | dBiU | Annex to RES-609 * | BR Report ** (instructs the Bureau 2 of RES 609) |
|-----------|-----|----------|---------------------|----------|---------|------------|---------|--------|---------|------------|--------------------|-----------------------------------------------------|
| 115520108 | LUX | | LUX-G9-38-A | -129 | C | 08.06.2015 | CR/C | 3817 | 2804 | | 15th meeting | Y |
| 119500101 | LUX | | LUX-G9-38-A | -129 | N | 25.04.2019 | PART | III-S | 2900 | 23.12.2017 | 15th meeting | Y |
| 119520255 | MCO | | MONASAT-52EC | 52 | C | 16.10.2019 | CR/C | 5130 | 2917 | | — | Y |
| 119520055 | MLA | | MEASAT-1C | 91.5 | C | 07.03.2019 | CR/C | 4974 | 2900 | | 16th meeting | Y |
| 119520056 | MLA | | MEASAT-2D | 148 | C | 07.03.2019 | CR/C | 4975 | 2900 | | — | Y |
| 117520015 | NCG | | NICASAT-1L | -84.4 | C | 01.01.2017 | CR/C | 4367 | 2851 | | — | Y |
| 117500295 | NIG | | NIGCOMSAT-1R | 42.5 | N | 23.06.2017 | PART | II-S | 2875 | 19.04.2015 | 4th meeting | N |
| 117520468 | NIG | | NIGCOMSAT-2B | -16 | C | 06.12.2017 | CR/C | 4635 | 2872 | | — | N |
| 117520469 | NIG | | NIGCOMSAT-2D | -9.5 | C | 06.12.2017 | CR/C | 4636 | 2872 | | — | N |
| 118520292 | NOR | | SLEIPNER-1 | NGSO | C | 28.09.2018 | CR/C | 5051 | 2906 | | — | Y |
| 113520316 | PAK | | PAKSAT-MM1-38.2E | 38.2 | C | 26.12.2013 | CR/C | 3530 | 2787 | | — | N |
| 117520098 | PAK | | PAKSAT-MM1-38.2E-KA | 38.2 | C | 29.05.2019 | CR/C | 4441 | 2908 | | — | Y |
| 113520165 | PNG | | RAGGIANA-18 | -117 | C | 01.07.2013 | CR/C | 3415 | 2803 | | 11th meeting | Y |
| 118500297 | PNG | | RAGGIANA-18 | -117 | N | 23.04.2018 | PART | III-S | 2904 | 13.01.2017 | 11th meeting | Y |
| 97500304 | RUS | | GLONASS-M | N-GSO | N | 21.05.2003 | PART | II-S | 2645 | 17.01.2009 | 11th meeting | N |
| 114520045 | RUS | | GLONASS-M | N-GSO | C | 12.02.2014 | CR/C | 3560 | 2777 | | 11th meeting | N |
| 97500304 | RUS | | GLONASS-M | N-GSO | N | 13.09.2018 | PART | II-S | 2893 | 01.12.2014 | 11th meeting | N |
| 116520165 | S | | SMMSAT-11 | 123 | C | 09.06.2016 | CR/C | 4143 | 2836 | | — | Y |
| 115520178 | S | | SMMSAT-7 | 55 | C | 21.11.2013 | CR/C | 3868 | 2812 | | — | Y |
| 119520187 | UAE | | NSAT01 | NGSO | C | 07.08.2019 | CR/C | 5121 | 2914 | | — | Y |
| 119520188 | UAE | | NSAT01.001 | NGSO | C | 07.08.2019 | CR/C | 5122 | 2914 | | — | Y |
| 101500582 | USA | | INTNL SPACE STATION | N-GSO | N | 24.09.2002 | PART | II-S | 2592 | 01.02.2001 | — | N |
| 109500412 | USA | | LM-RPS-107.3W | -107.3 | N | 31.05.2007 | PART | II-S | 2665 | 20.01.2006 | 2d meeting | Y |
| 109500413 | USA | | LM-RPS-133W | -133 | N | 31.05.2007 | PART | II-S | 2663 | 03.11.2006 | 2d meeting | Y |
| 103500110 | USA | | NAVSTAR GPS-IIRF | N-GSO | N | 02.05.2003 | PART | II-S | 2645 | 10.04.2009 | 7th meeting | N |
| 118520107 | USA | | USASAT-80C-1 | -125 | C | 27.04.2017 | CR/C | 4743 | 2879 | | 17th meeting | Y |
| 116500105 | USA | | USRSR | N-GSO | N | 10.04.2017 | PART | II-S | 2867 | 09.12.2015 | 7th meeting | N |

* Administrations that have submitted materials pursuant to §§ 11 b) and/or c) of the *RES-609 Terms of Reference* to one Consultation Meeting, and have had the subject RNSS system or network reflected in the aggregate sharing determination agreed by a Consultation Meeting, need not resubmit the same information to a subsequent Consultation Meeting under the timetable established in §§ 11 b) and/or c), provided that:

- The subject network or system remains on the list to be provided for the subsequent Consultation Meeting by the BR under § 11 a) above; and
- The administration that submitted the information provides to all administrations on the list provided by the BR in § 11 a) above, with a copy to the BR for information, on or before the deadline established under §§ 11 b) and c) for the subsequent Consultation Meeting, a statement that there have been no material changes in the information previously provided under §§ 11 b) and/or c) for the subject system or network.

Systems for which no input documents have been submitted to the consultation meeting, pursuant to §§ 11 b) and/or c) of the *RES-609 Terms of Reference* to any Consultation Meeting, are identified with the label ‘—’.

** Characteristics of the satellite networks used by administrations were representative of intended or actual operating characteristics, and thus may be different from those characteristics that may be included in the corresponding Article 9 and/or Article 11 filings. These former characteristics were not made available to the Bureau as Appendix 4 data in the electronic format necessary to perform PFD calculations. The Bureau therefore calculated PFD values based on information available to the BR in Article 9 or 11 submissions. “Y” in this column indicates PFD excess, “N” in this column indicates no PFD excess.

PFD values calculated by administrations and submitted under § 1.4 and 1.5 of the Annex to REC 608 (Rev.WRC-07), that are separately available to the participating administrations on the RES-609 web page at: <https://www.itu.int/en/ITU-R/space/Pages/res609.aspx> show no PFD excess over the limit of REC 608 (Rev.WRC-07).

| PARTIE B | PART B | PARTE B |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Renseignements publiés conformément au <i>point 8 du décide</i> de la Résolution 609 (Rév.CMR-07), en tant que résultats concernant la répartition du brouillage cumulatif en application du <i>point 2 du décide</i> de la Résolution 609 (Rév.CMR-07), que ces résultats correspondent ou non à des modifications éventuelles des caractéristiques publiées de leurs systèmes ou réseaux respectifs.</p> | <p>Information referred to in <i>resolves 8</i> of the Resolution 609 (Rev.WRC-07), as results of any aggregate sharing determinations made in application of <i>resolves 2</i> of the Resolution 609 (Rev.WRC-07), without regard to whether such determinations result in any modifications to the published characteristics of their respective systems or networks.</p> | <p>Información publicada con arreglo al <i>resuelve 8</i> de la Resolución 609 (Rev.CMR-07), como resultado de cualquier decisión sobre compartición combinada tomada en aplicación del <i>resuelve 2</i> de la Resolución 609 (Rev.CMR-07), sin tener en cuenta si dichas decisiones tienen como resultado cualquier modificación en las características publicadas de sus respectivos sistemas o redes.</p> |
| <p>Ces renseignements ont été communiqués au Bureau par l'Administration de la Fédération de Russie le 16.11.2020, en application des Sections 2 et 14 du mandat de la réunion de consultation organisée conformément à la Résolution 609 (Rév.CMR-07).</p> | <p>This information was communicated to the Bureau by the administration of the Russian Federation on 16.11.2020, pursuant to Section 2 and Section 14 of the Resolution 609 (Rev.WRC-07) Consultation Meeting Terms of Reference.</p> | <p>Esta información fue comunicada a la Oficina por la Administración de la Federación de Rusia el 16.11.2020 con arreglo al punto 2 y al punto 14 del mandato de la reunión de consulta de la Resolución 609 (Rev.CMR-07).</p> |

| B 部分 | ЧАСТЬ В | الجزء B |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>第 609 号决议 (WRC-07 修订版) 做出决议第 8 段所列的信息, 即有关执行第 609 号决议 (WRC-07 修订版) 作出决议第 2 段的集总干扰分摊的确定结果, 不论这一确定结果是否修改其各自系统或网络的已公布特性。</p> | <p>Информация, о которой идет речь в п.8 раздела "<i>решает</i>" Резолюции 609 (Пересм.ВКР-07) и которая является результатом любого определения условий совместного использования суммарного допустимого уровня согласно пункту 2 раздела "<i>решает</i>" Резолюции 609 (Пересм.ВКР-07), независимо от того, достигнуты ли эти результаты путем изменения объявленных характеристик их соответствующих систем или сетей или нет.</p> | <p>المعلومات المشار إليها في البند 8 من منطوق القرار 609 (Rev.WRC-07)، أي نتائج ترتيبات التقاسم التراكمي التي يتم التوصل إليها تنفيذاً للبند 2 من منطوق القرار 609 (Rev.WRC-07)، بغض النظر عما إذا كانت هذه الترتيبات سيسفر عنها أي تعديلات في الخصائص المنشورة لأنظمة الإدارات المعنية وشبكاتهما.</p> |
| <p>此资料由俄罗斯联邦主管部门根据第 609 号决议 (WRC 07, 修订版) 磋商会议职责范围第 2 节和第 14 节, 于 2020 年 11 月 16 日 提交无线电通信局。</p> | <p>Настоящая информация направлена в Бюро администрацией Российской Федерации 16.11.2020 года в соответствии с разделом 2 и разделом 14 круга ведения консультативного собрания по Резолюции 609 (Пересм. ВКР-07).</p> | <p>أبلغت إدارة الاتحاد الروسي المكتب بهذه المعلومات في 2020.11.16، تطبيقاً للقسمين 2 و 14 من اختصاصات الاجتماع التشاوري المنظم وفقاً للقرار 609 (Rev.WRC-07).</p> |

Report of the Seventeenth Resolution 609 (Rev WRC-07) Consultation Meeting to the ITU Radiocommunication Bureau

1 INTRODUCTION

Resolution 609 (Rev WRC-07) is titled “Protection of aeronautical radionavigation service systems from the equivalent power flux-density (epfd) produced by radionavigation satellite service networks and systems in the 1 164-1 215 MHz frequency band.”

The resolves: establish the aggregate protection criterion of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$, (resolves 1), establish the basis for Consultation Meetings to achieve this objective (resolves 6); and identify the ITU-R Recommendation M.1642-2 to use to conduct the aggregate calculations (resolves 10).

This report reflects the results of the Seventeenth Resolution 609 Consultation Meeting (CM) and is provided in accordance with the provisions of resolves 8 of Resolution 609.

2 PRIOR CONSULTATION MEETINGS (CM)

2.1 First Consultation Meeting (Geneva, 2003)

The first CM, held in Geneva, Switzerland, December 8-9, 2003, agreed on Terms of Reference for the operation of future CMs. Among other things the Terms of Reference establish specific timelines for the submission of information in satisfaction of the Criteria in the Annex to Resolution 609, for the submission of technical information on individual systems and networks in an agreed format, and for the exchange of aggregate interference calculations among the participants. No aggregate sharing determination was made at the first CM.

2.2 Second Consultation Meeting (Ottawa, 2004)

At the second CM a determination of the epfd level produced by all space stations of 15 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the assessed RNSS systems and networks was $-125.7 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 4.2 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It was noted that the results were based on the use of worst-case assumptions in terms of interference from these RNSS systems and networks into the ARNS.

2.3 Third Consultation Meeting (Munich, 2005)

At the Third CM a determination of the epfd level produced by all space stations of 19 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the assessed RNSS systems and networks was $-125.7 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 4.2 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It was noted that the results were based on the use of worst-case assumptions in terms of interference from these RNSS systems and networks into the ARNS.

2.4 Fourth Consultation Meeting (Bangalore, 2006)

At the Fourth CM a determination of the epfd level produced by all space stations of 22 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the assessed RNSS systems and networks was $-125.7 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 4.2 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It was noted that the results were based on the use of worst-case assumptions in terms of interference from these RNSS systems and networks into the ARNS.

2.5 Fifth Consultation Meeting (Xi'an, May 2008)

At the Fifth CM a determination of the epfd level produced by all space stations of 26 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the assessed RNSS systems and networks was $-122.33 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 0.83 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.6 Sixth Consultation Meeting (By correspondence, June 2009)

At the Sixth CM a determination of the epfd level produced by all space stations of 25 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the assessed RNSS systems and networks was $-122.82 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 1.32 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.7 Seventh Consultation Meeting (Toulouse, June 2010)

At the Seventh CM a determination of the epfd level produced by all space stations of 25 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the assessed RNSS systems and networks was $-122.58 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 1.08 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.8 Eighth Consultation Meeting (Geneva, September 2011)

At the Eighth CM a determination of the epfd level produced by all space stations of 23 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the referenced RNSS networks and systems was $-122.64 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 1.14 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.9 Ninth Consultation Meeting (Tokyo, October 2012)

At the Ninth CM a determination of the epfd level produced by all space stations of 23 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the referenced RNSS networks and systems was $-121.93 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 0.43 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.10 Tenth Consultation Meeting (Los Angeles, September 2013)

At the Tenth CM a determination of the epfd level produced by all space stations of 23 RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the referenced RNSS networks and systems was $-121.93 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 0.43 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.11 Eleventh Consultation Meeting (Shenzhen, China, October 2014)

At the Eleventh CM a determination of the epfd level produced by all space stations of RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the referenced RNSS networks and systems was $-122.01 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 0.51 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.12 Twelfth Consultation Meeting (By correspondence, September 2015)

At the Twelfth CM a determination of the epfd level produced by all space stations of RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the referenced RNSS networks and systems was $-122.00 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 0.50 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.13 Thirteenth Consultation Meeting (Auckland, New Zealand, September 2016)

At the Thirteenth CM a determination of the epfd level produced by all space stations of RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the referenced RNSS networks and systems was $-121.98 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 0.48 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.14 Fourteenth Consultation Meeting (By correspondence, September 2017)

At the Fourteenth CM a determination of the epfd level produced by all space stations of RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the referenced RNSS networks and systems was $-121.98 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 0.48 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.15 Fifteenth Consultation Meeting (Abuja, October 2018)

At the Fifteenth CM a determination of the epfd level produced by all space stations of RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the referenced RNSS networks and systems was $-121.89 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 0.39 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

2.16 Sixteenth Consultation Meeting (Cyberjaya, Malaysia, September 2019)

At the Sixteenth CM a determination of the epfd level produced by all space stations of RNSS systems and networks was made and agreed. The maximum epfd of all satellites associated with the referenced RNSS networks and systems was $-121.84 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 0.34 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

3 THE SEVENTENTH CONSULTATION MEETING (VIRTUAL MEETING, OCTOBER 2020)

Calculations of the equivalent PFD (epfd) level produced by all space stations of the referenced RNSS systems and networks from Table 1 were compared and agreed at the Seventeenth Consultation Meeting. The agreed calculations by the participants can be found in Table 2 in the attachment to this Report, along with the aggregate spectral emissions profile in Figure 1.

4 CONCLUSION

The maximum aggregate epfd of satellites associated with the referenced RNSS networks and systems in Table 1 is determined to be no greater than $-121.82 \text{ dB(W/(m}^2\cdot\text{MHz))}$, i.e. 0.32 dB below the Resolution 609 limit of $-121.5 \text{ dB(W/(m}^2\cdot\text{MHz))}$. It is noted that the result is based on the use of worst-case assumptions in terms of interference from RNSS into ARNS.

ATTACHMENT

1 Results of the Calculation of the Maximum RNSS Aggregate epfd per Megahertz

Within this Attachment is the description of results of calculating the maximum RNSS aggregate epfd for every one megahertz within the band 1 164 – 1 215 MHz. The methodology for the calculation of the aggregate epfd of an RNSS system, which was used, is described in ITU-R Recommendation M.1642-2, “Methodology for assessing the maximum aggregate epfd at an aeronautical radionavigation service station from all radionavigation satellite service systems operating in the 1 164 -1 215 MHz band”.

2 Results of the Calculation

For the purpose of the calculation, data given by the following RNSS system providers was used:

Table 1: RNSS systems having confirmed characteristics to the Seventeenth Consultation Meeting before the 21 May 2020 submission deadline

| | ntc_id | Adm | ntwk_org | sat_name | long_nom | ntf_rsn | d_rcv | pub_ref | pub_no | ific_no | ntc_type |
|----|-----------|-----|----------|---------------------------------|----------|---------|------------|---------|--------|---------|----------|
| 1 | 118500307 | ALG | | ALCOMSAT-24.8W | -24.8 | N | 17.05.2018 | PART | 3 | 2917 | G |
| 2 | 103500418 | CHN | | COMPASS-110.5E ¹ | 110.5 | N | 17.10.2007 | PART | 2 | 2681 | G |
| 3 | 103500419 | CHN | | COMPASS-140E ¹ | 140 | N | 17.10.2007 | PART | 2 | 2684 | G |
| 4 | 109500803 | CHN | | COMPASS-160E ¹ | 160 | N | 16.12.2010 | PART | 2 | 2701 | G |
| 5 | 103500416 | CHN | | COMPASS-58.75E ¹ | 58.75 | N | 17.10.2007 | PART | 2 | 2687 | G |
| 6 | 103500417 | CHN | | COMPASS-80E ¹ | 80 | N | 17.10.2007 | PART | 2 | 2689 | G |
| 7 | 119500339 | CHN | | COMPASS-80.3E | 80.3 | N | 15.11.2019 | PART | 1 | 2916 | G |
| 8 | 116500153 | CHN | | COMPASS-B-84E ¹ | 84 | N | 16.10.2019 | PART | 2 | 2915 | G |
| 9 | 116500154 | CHN | | COMPASS-B-144.5E ¹ | 144.5 | N | 16.08.2019 | PART | 2 | 2909 | G |
| 10 | 103500420 | CHN | | COMPASS-H ¹ | N-GSO | N | 05.01.2004 | PART | 2 | 2596 | N |
| 11 | 119500340 | CHN | | COMPASS-IGSO ¹ | N-GSO | N | 15.11.2019 | PART | 1 | 2915 | N |
| 12 | 103500421 | CHN | | COMPASS-M ¹ | N-GSO | N | 31.12.2003 | PART | 2 | 2596 | N |
| 13 | 110520285 | CHN | | COMPASS-MEO ¹ | N-GSO | C | 01.10.2010 | CR/C | 2740 | 2742 | N |
| 14 | 118520162 | CHN | | CENTISPACE-1 | N-GSO | C | 06.07.2018 | CR/C | 4801 | 2882 | N |
| 15 | 100500321 | F | GLS | MSATNAV-2 ² | N-GSO | N | 04.10.2000 | PART | 2 | 2588 | N |
| 16 | 117520381 | F | | F-SAT-RN-5W | -5 | C | 17.10.2017 | CR/C | 4593 | 2868 | G |
| 17 | 109500230 | G | | INMARSAT GSO-2N | 64 | N | 02.08.2010 | PART | 2 | 2696 | G |
| 18 | 115500221 | G | | INMARSAT-4 143.5E ³ | 143.5 | N | 12.01.2012 | PART | 2 | 2725 | G |
| 19 | 115500141 | G | | INMARSAT-4A 143.5E ³ | 143.5 | N | 02.10.2015 | PART | 2 | 2825 | G |
| 20 | 110500194 | G | | INMARSAT-4 98W ³ | -98 | N | 28.06.2010 | PART | 2 | 2710 | G |
| 21 | 114500078 | G | | INMARSAT-4A 98W ³ | -98 | N | 30.06.2011 | PART | 2 | 2822 | G |
| 22 | 119500068 | IND | | INSAT-NAVR(32.5) | 32.5 | N | 07.03.2019 | PART | 1 | 2909 | G |
| 23 | 116500029 | IND | | INSAT-NAV(55) | 55 | N | 24.02.2016 | PART | 2 | 2834 | G |
| 24 | 117500127 | IND | | INSAT-NAVR(83) | 83 | N | 02.06.2017 | PART | 2 | 2872 | G |
| 25 | 119500343 | IND | | INSAT-NAVR(129.5) | 129.5 | N | 24.10.2019 | PART | 1 | 2912 | G |
| 26 | 116500272 | IND | | INSAT-NAVR-GS ⁴ | N-GSO | N | 20.12.2016 | PART | 1 | 2871 | N |
| 27 | 117520274 | IND | | INSAT-NAV-GS17 ⁴ | N-GSO | C | 17.07.2017 | CR/C | 4544 | 2866 | N |
| 28 | 119500107 | IND | | INSAT-NAV(93.5) | 93.5 | N | 03.05.2019 | PART | 2 | 2901 | G |
| 29 | 104500548 | J | | N-SAT-HEO2 ⁵ | N-GSO | N | 28.12.2004 | PART | 2 | 2603 | N |

| | ntc_id | Adm | ntwk_org | sat_name | long_nom | ntf_rsn | d_rcv | pub_ref | pub_no | ific_no | ntc_type |
|----|-----------|-----|----------|-------------------------------|----------|---------|------------|---------|--------|---------|----------|
| 30 | 110500199 | J | | QZSS-1 ⁵ | N-GSO | N | 27.01.2012 | PART | 2 | 2724 | N |
| 31 | 116500181 | J | | QZSS ⁵ | N-GSO | N | 18.01.2019 | PART | 2 | 2914 | N |
| 32 | 118520075 | J | | QZSS-GS-A1 ⁵ | 90.5 | C | 13.03.2018 | CR/C | 4715 | 2877 | G |
| 33 | 117500337 | J | | QZSS-GS4 ⁵ | 127 | N | 18.01.2019 | PART | 2 | 2916 | G |
| 34 | 97500304 | RUS | | GLONASS-M | N-GSO | N | 21.05.2003 | PART | 2 | 2645 | N |
| 35 | 97500304 | RUS | | GLONASS-M | N-GSO | N | 13.09.2018 | PART | 2 | 2893 | N |
| 36 | 109500412 | USA | | LM-RPS-107.3W | -107.3 | N | 31.05.2007 | PART | 2 | 2665 | G |
| 37 | 118520107 | USA | | USASAT-80C-1 | -125 | C | 27.04.2017 | CR/C | 4743 | 2879 | G |
| 38 | 103500110 | USA | | NAVSTAR GPS-IIRF ⁶ | N-GSO | N | 02.05.2003 | PART | 2 | 2645 | N |
| 39 | 116500105 | USA | | USRSR ⁶ | N-GSO | N | 03.04.2018 | PART | 2 | 2867 | N |
| 40 | 117500155 | LUX | | LUX-G6-2-E | 5 | N | 19.12.2018 | PART | 2 | 2897 | G |
| 41 | 120500077 | LUX | | LUX-G7-9-E2 | 31.5 | N | 25.03.2020 | PART | 2 | 2928 | G |
| 42 | 119500101 | LUX | | LUX-G9-38-A | -129 | N | 25.04.2019 | PART | 1 | 2896 | G |
| 43 | 113520165 | PNG | | RAGGIANA-18 | -117 | C | 01.07.2013 | CR/C | 3415 | 2803 | G |
| 44 | 119520055 | MLA | | MEASAT-1C | 91.5 | C | 07.03.2019 | CR/C | 4974 | 2900 | G |
| 45 | 117500295 | NIG | | NIGCOMSAT-1R | 42.5 | N | 23.06.2017 | PART | 2 | 2875 | G |

¹ In accordance with item 5 of the Resolution 609 (Rev.WRC-07) Consultation Meeting Terms of Reference (MOD, Geneva, September 2011), all the listed filings remain available for the COMPASS system and shall be treated as a single RNSS system for purposes of performing the epfd calculations having the characteristics presented in this document.

² In accordance with § 5 of Terms of Reference for the Resolution 609 (Rev. WRC-07) Consultation Meetings, the following filings remain available for Galileo and shall be treated with MSATNAV-2 filing as a single planned RNSS system for purposes of performing the epfd calculations having the characteristics presented in this document: MSATNAV-3 and 4, GALILEO-NAV-2004, GALILEO-M-NAVSTAR and GALILEO-2.

³ where multiple INMARSAT filings are shown for the same orbital location, these represent a single network for the purposes of the Resolution 609 (Rev. WRC-07) consultation process.

⁴ INSAT-NAVR-GS and INSAT-NAV-GS17 shall be treated as a single planned RNSS system for purposes of performing the epfd calculations having the characteristics presented in this document.

⁵ In accordance with item 5 of the Resolution 609 (Rev. WRC-07) Consultation Meeting Terms of Reference (MOD September 2006, Bangalore), the following filings remain available for the Quasi-Zenith Satellite System (QZSS) and shall be treated with the N-SAT-HEO2 filing as a single planned RNSS system for purposes of performing the epfd calculations having the characteristics presented in this document: QZSS-1 (ITU Publication Reference: Part II-S, IFIC: 2724), QZSS (ITU Publication Reference: CR/C/3322, IFIC: 2743), QZSS-A (ITU Publication Reference: CR/C/4720, IFIC: 2877), QZSS-GS-A1 (ITU Publication Reference: CR/C/4715, IFIC: 2877), QZSS-GS-A3 (ITU Publication Reference: CR/C/4716, IFIC: 2877), QZSS-GS4 (ITU Publication Reference: CR/C/3319, IFIC: 2743), QZSS-GS-A4 (ITU Publication Reference: CR/C/4717, IFIC: 2877), QZSS-GS-A5 (ITU Publication Reference: CR/C/4718, IFIC: 2877), QZSS-GS-A8 (ITU Publication Reference: CR/C/4719, IFIC: 2877).

⁶ In accordance with item 5 of the Resolution 609 (Rev. WRC-07) Consultation Meeting Terms of Reference, these filings should be treated together as the NAVSTAR GPS system.)

Detailed characteristics of these systems, which were used for the aggregate computation, are available on the Resolution 609 page within the ITU web site (<https://www.itu.int/ITU-R/go/space-resolution609/en>): see attachment 3 to the Record of Decisions from the Seventeenth Consultation Meeting.

Table 2 and Figure 1 give the results of the maximum aggregate epfd values per MHz, calculated using 1-degree steps in latitude/longitude based on the RNSS systems in Table 1.

Table 2: Maximum RNSS aggregate epfd values per MHz

| Center Frequency (MHz) | Max RNSS Agg epfd (dB(W/m ² /MHz)) | Center Frequency (MHz) | Max RNSS Agg epfd (dB(W/m ² /MHz)) | Center Frequency (MHz) | Max RNSS Agg epfd (dB(W/m ² /MHz)) | Center Frequency (MHz) | Max RNSS Agg epfd (dB(W/m ² /MHz)) |
|------------------------|-----------------------------------------------|------------------------|-----------------------------------------------|------------------------|-----------------------------------------------|------------------------|-----------------------------------------------|
| 1164 | -138.88 | 1177 | -123.11 | 1190 | -135.65 | 1203 | -125.68 |
| 1165 | -140.39 | 1178 | -123.49 | 1191 | -134.79 | 1204 | -124.79 |
| 1166 | -140.07 | 1179 | -124.32 | 1192 | -134.82 | 1205 | -124.48 |
| 1167 | -139.13 | 1180 | -124.75 | 1193 | -135.58 | 1206 | -123.68 |
| 1168 | -135.88 | 1181 | -125.78 | 1194 | -136.48 | 1207 | -122.54 |
| 1169 | -132.45 | 1182 | -127.61 | 1195 | -138.02 | 1208 | -123.59 |
| 1170 | -129.28 | 1183 | -129.94 | 1196 | -138.57 | 1209 | -125.30 |
| 1171 | -126.80 | 1184 | -132.50 | 1197 | -137.68 | 1210 | -125.90 |
| 1172 | -126.10 | 1185 | -135.94 | 1198 | -135.36 | 1211 | -127.03 |
| 1173 | -124.83 | 1186 | -139.00 | 1199 | -132.93 | 1212 | -128.30 |
| 1174 | -124.18 | 1187 | -141.29 | 1200 | -130.40 | 1213 | -130.16 |
| 1175 | -123.38 | 1188 | -139.68 | 1201 | -128.41 | 1214 | -132.44 |
| 1176 | -121.82 | 1189 | -137.45 | 1202 | -126.77 | 1215 | -135.70 |

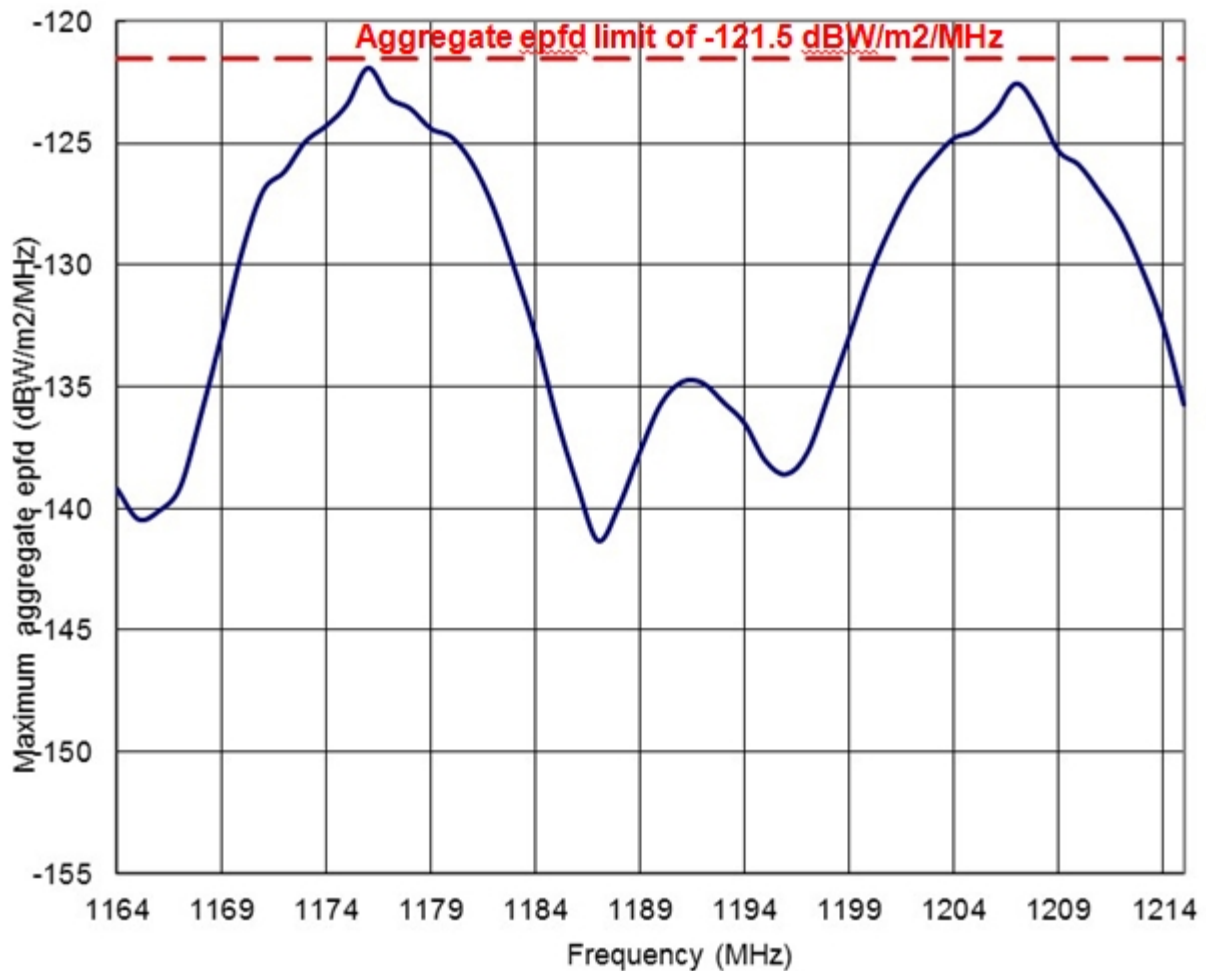


Figure 1: Plot of Table 2 (Maximum RNSS Aggregate epfd per MHz)