

RO-IR 01

TECHNICAL REGULATION

for the radio interface

concerning non-specific Short-Range Devices (SRDs)

1. Basic considerations

Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC was implemented in national legislation by Government Decision No. 740/2016 on making available on the market of radio equipment with subsequent amendments and completions.

This technical regulation contains the requirements for the radio spectrum usage by the license exempted non-specific short-range devices in the specified frequency bands and considers compliance, especially with the provisions of Article 3 Paragraph 2, and Articles 6-8 of Directive 2014/53/EU.

This technical regulation does not exclude the obligation for the radio equipment placed on the market or made available on the market in Romania to comply with Directive 2014/53/EU.

The obligations arising from Directive (EU) 2015/1535 of the European Parliament and of the Council of 9 September 2015 laying down a procedure for the provision of information in the field of technical regulations and of rules on Information Society services are met in this regulation (OJ L 241, 17.9.2015, pages 1–15).

All Romanian technical regulations for the radio interfaces notified under Directive 2015/1535 shall be published and made available on National Authority for Management and Regulation in Communications (ANCOM) web-site at: http://www.ancom.ro/reglementari-interfete_2723 .

2. Radio Interface Specifications

Non-specific SRDs

Frequency band	Annex
442.2 – 450 kHz	RO-IR 01-01
456.9 – 457.1 kHz	RO-IR 01-02
13 553 – 13 567 kHz	RO-IR 01-03
26 957 – 27 283 kHz	RO-IR 01-04
26 990 – 27 000 kHz	RO-IR 01-05
27 040 – 27 050 kHz	RO-IR 01-06
27 090 – 27 100 kHz	RO-IR 01-07
27 140 – 27 150 kHz	RO-IR 01-08
27 190 – 27 200 kHz	RO-IR 01-09
40.66 – 40.70 MHz	RO-IR 01-10
138.20 – 138.45 MHz	RO-IR 01-11
169.4 – 169.475 MHz	RO-IR 01-12
169.4 – 169.4875 MHz	RO-IR 01-13
169.4875 – 169.5875 MHz	RO-IR 01-14

169.5875 – 169.8125 MHz	RO-IR 01–15
433.05 – 434.79 MHz	RO-IR 01–16a; RO-IR 01–16b
434.04 – 434.79 MHz	RO-IR 01–17
862 – 863 MHz	RO-IR 01–18
863 – 865 MHz	RO-IR 01–19
865 – 868 MHz	RO-IR 01–20a; RO-IR 01–20b
868 – 868.6 MHz	RO-IR 01–21
868.7 – 869.2 MHz	RO-IR 01–22
869.4 – 869.65 MHz	RO-IR 01–23
869.7 – 870 MHz	RO-IR 01–24a; RO-IR 01–24b
874 – 874.4 MHz	RO-IR 01–25
917.3 – 918.9 MHz	RO-IR 01–26
917.4 – 919.4 MHz	RO-IR 01–27
2 400 – 2 483.5 MHz	RO-IR 01–28
5 725 – 5 875 MHz	RO-IR 01–29
24 – 24.15 GHz	RO-IR 01–30
24.15 – 24.25 GHz	RO-IR 01–31
57 – 64 GHz	RO-IR 01–32
61 – 61.5 GHz	RO-IR 01–33
122 – 122.25 GHz	RO-IR 01–34a
122.25 – 123 GHz	RO-IR 01–34b
244 – 246 GHz	RO-IR 01–35

For the purpose of this technical regulation, *Short-Range Device (SRD)* means a radio device which provides unidirectional or bidirectional communication, and which receives and/or transmits signals over a short distance and at low power.

The category of short-range devices, non-specific, covers all kinds of radio devices, regardless of the application or the purpose, which fulfill the technical conditions specified for a given frequency band. Typical uses include telemetry, telecommand, alarms, data transmissions in general and other applications.

For the purpose of this technical regulation, *a network access point* in a data network is a fixed terrestrial short-range device that works as a connection point for the other short-range devices in the data network to services platforms located outside the data network. The term "data network" refers to several short-range devices that represent the components of the network, including the access point to the network and the radio connections application between them, as well.

For the purpose of this technical regulation, the *operating cycle* is defined as the ratio, expressed as a percentage, between $\Sigma(T_{on})$ and (T_{obs}) , where T_{on} is the operating time («on») of a single radio transmitter device and T_{obs} is the observation period. T_{on} is measured in a frequency observation band (F_{obs}). Unless otherwise specified in this technical regulation, T_{obs} represents an one hour uninterrupted period and F_{obs} is the applicable frequency band in this technical regulation.

For the purpose of this technical regulation, *non-interference and non-protected* means that it is not allowed to cause any harmful interference to radio communications services and that it shall not be

claimed the protection of these devices against harmful interference originating from radio communications services.

The use of radio spectrum by short-range devices is allowed on a non-interference and non-protected basis provided that such devices meet the conditions set out in the Annexes below.

3. Document history:

Edition	Changes
Edition 1/2014	Notification number according to Directive 98/34/EC: 2014/597/RO.
Edition 2/2018 (06.08.2018)	<p>Update according to Commission Implementing Decision (EU) 2017/1483 amending Decision 2006/771/EC on harmonizing the radio spectrum for the use of short-range devices and repealing Decision 2006/804/EC:</p> <ul style="list-style-type: none"> • RO-IR 01-01 ÷ RO-IR 01-31, except RO-IR 01-11 and RO-IR 01-26; • RO-IR 01-02 was repealed (frequency band 6 765-6 795 kHz); • New technical specifications were added: RO-IR 01-19b, RO-IR 01-30a, RO-IR 01-30b; <p>Update of the legal framework according to Point 1 – „Basic considerations” and reference documents (row 13);</p> <p>Update according to the list of Class 1 radio equipment subclasses (version of January 2018) published according to Article 1 Paragraph 3 of Commission Decision 2000/299/EC (http://ec.europa.eu/docsroom/documents/26843): RO-IR 01-01;</p> <p>Formal changes according to TCAM-RSC pattern of November 2017.</p>
Edition 3/2020 (23.12.2020)	<p>Update of the legal framework according to Point 1 – „Basic considerations” and definitions to Point 2 - “Specifications for radio interface”;</p> <p>Update according to Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions for the use of radio spectrum for short-range devices :</p> <ul style="list-style-type: none"> • The following frequency bands were added, being renumbered the technical specifications: <ul style="list-style-type: none"> 442.2-450 kHz (RO-IR 01-01); 862-863 MHz (RO-IR 01-18); • The rest of the technical specifications were updated and renumbered. <p>Update according to Commission Implementing Decision (EU) 2018/1538 of 11 October 2018 on the harmonisation of radio spectrum for use by short-range devices within the 874-876 and 915-921 MHz frequency bands:</p> <ul style="list-style-type: none"> • The following frequency bands have been introduced: <ul style="list-style-type: none"> 874-874.4 MHz (RO-IR 01-25); 917.3-918.9 MHz (RO-IR 01-26); 917.4-919.4 MHz (RO-IR 01-27); <p>Update according to the list of Class 1 radio equipment subclasses (version of January 2020) published according to Article 1 Paragraph 3 of Commission Decision 2000/299/EC (https://ec.europa.eu/docsroom/documents/40361).</p>

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-01	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	<i>This set of usage conditions applies exclusively to person detection and collision avoidance devices.</i>
	3	Frequency band	442.2 – 450 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	Channel spacing \geq 150 Hz	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	7 dB μ A/m at 10 m	
	8	Channel occupation and access rules		
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 330; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-02	Edition 3/2020
----------------	--------------------------------------	---	--------------------	-----------------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	<i>This set of usage conditions applies exclusively to devices for emergency detection of buried victims and valuables.</i>
	3	Frequency band	456.9 – 457.1 kHz Center frequency is 457 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	Continuous wave (CW)– no modulation	
	6	Direction/Separation	-	
	7	Transmit power / Power density	7 dBμA/m at 10 m	
	8	Channel occupation and access rules		
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	Application of Article 3 Paragraph 3 Letter g, ensuring access to emergency services according to Decision 2001/148/EC on the application of Article 3 Paragraph 3 letter e of Directive 1999/5/EC for avalanche light signals	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 718; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-03	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	13 553 – 13 567 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 330; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-04	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	26 957 – 27 283 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; EN 300 330; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-05	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	26 990 – 27 000 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	100 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Operating cycle limit: 0.1%	<i>Model control devices (see RO-IR 08-01) may operate without operating cycle restrictions.</i>
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-06	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	27 040 – 27 050 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	100 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Operating cycle limit: 0.1%	<i>Model control devices (see RO-IR 08-01) may operate without operating cycle restrictions.</i>
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-07	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	27 090 – 27 100 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	100 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Operating cycle limit: 0.1%	<i>Model control devices (see RO-IR 08-01) may operate without operating cycle restrictions.</i>
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-08	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	27 140 – 27 150 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	100 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Operating cycle limit: 0.1%	<i>Model control devices (see RO-IR 08-01) may operate without operating cycle restrictions.</i>
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices ; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-09	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	27 190 – 27 200 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	100 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Operating cycle limit: 0.1%	<i>Model control devices (see RO-IR 08-01) may operate without operating cycle restrictions.</i>
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-10	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	40.66 – 40.70 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-11	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	138.20 – 138.45 MHz	
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel occupation and access rules	Duty cycle limit: 1%	<i>Using a duty cycle, a mitigation technique for harmful interference of LBT type (Listen Before Talk) or another equivalent mitigation technique, it shall not be user-dependent/adaptable and shall be guaranteed by appropriate technical means. For LBT devices without AFA (Adaptive Frequency Agility) or equivalent techniques, a duty cycle limit shall be applied. For any type of frequency agility device, the duty cycle limit applies to total transmission, unless LBT or an equivalent technique is used.</i>
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; ERC/REC 70-03	
	14	Notification number	2014/597/RO	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-12	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	169.4 – 169.475 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	Max. 50 kHz	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	500 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Operating cycle limit: 1% For measuring devices (see RO-IR 02-01), operating cycle limit is 10%.	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ECC/DEC/(05)02; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-13	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	169.4 – 169.4875 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Operating cycle limit: 0.1%	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ECC/DEC/(05)02; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-14	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	169.4875 – 169.5875 MHz	Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Operating cycle limit: 0.001%	Between 00.00 and 6.00 AM local time, a 0.1% operating cycle limit may be used.
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commision Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ECC/DEC/(05)02; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-15	Edition 3/2020
----------------	--------------------------------------	---	--------------------	-----------------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	169.5875 – 169.8125 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commision Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Operating cycle limit: 0.1%	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commision Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ECC/DEC/(05)02; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-16a	Edition 3/2020
---------	-------------------------------	--	--------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	433.05 – 434.79 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commision Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	1 mW effective radiated power (e.r.p.) and -13 dBm/10 kHz power density for modulation with a bandwidth greater than 250 kHz	
	8	Channel occupation and access rules		<i>Voice applications are allowed if advanced mitigation techniques are used. Other audio and video applications are excluded.</i>
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commision Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-16b	Edition 3/2020
---------	-------------------------------	--	--------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	433.05 – 434.79 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commision Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Duty cycle limit: 10%	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commision Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-17	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	434.04 – 434.79 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Operating cycle limit:100% subject to a channel spacing of up to 25 kHz.	<i>Voice applications are allowed if advanced mitigation techniques are used. Other audio and video applications are excluded.</i>
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-18	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	862 – 863 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	Bandwidth ≤ 350 kHz	
	6	Direction/Separation	-	
	7	Transmit power / Power density	25 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Operating cycle limit: 0.1%.	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-19	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	863 – 865 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	25 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Techniques to access radio spectrum and mitigate interference, ensuring an appropriate performance level to meet the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured. An operating cycle limit of 0.1% may also be used.	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-20a	Edition 3/2020
---------	-------------------------------	--	--------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	865 – 868 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	25 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Techniques to access radio spectrum and mitigate interference, ensuring an appropriate performance level to meet the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured. An operating cycle limit of 1% may also be used.	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-20b	Edition 3/2020
---------	-------------------------------	--	--------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	<i>This set of usage conditions applies only to data networks.</i>
	3	Frequency band	865 – 868 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	Bandwidth: ≤ 200 kHz	
	6	Direction/Separation	-	
	7	Transmit power / Power density	500 mW effective radiated power (e.r.p.) Transmissions are allowed only in bands 865.6–865.8 MHz, 866.2–866.4 MHz, 866.8–867.0 MHz and 867.4–867.6 MHz.	<i>Adaptive power control (APC) is required. Alternatively, another mitigation technique having at least an equivalent level of spectrum compatibility.</i>
	8	Channel occupation and access rules	Techniques to access radio spectrum and mitigate interference, ensuring an appropriate performance level to meet the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured. Operating cycle limit: ≤ 10% for network access points Operating cycle limit: ≤ 2.5% in the other cases	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-21	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	868 – 868.6 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	25 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Techniques to access radio spectrum and mitigate interference, ensuring an appropriate performance level to meet the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured. An operating cycle limit of 1% may also be used.	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-22	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	868.7 – 869.2 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	25 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Techniques to access radio spectrum and mitigate interference, ensuring an appropriate performance level to meet the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured. An operating cycle limit of 0.1% may also be used.	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-23	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	869.40 – 869.65 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	500 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Techniques to access radio spectrum and mitigate interference, ensuring an appropriate performance level to meet the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured. An operating cycle limit of 10% may also be used.	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-24a	Edition 3/2020
---------	-------------------------------	--	--------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	869.7 – 870 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	5 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules		<i>Voice applications are allowed if advanced mitigation techniques are used. Other audio and video applications are excluded.</i>
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-24b	Edition 3/2020
---------	-------------------------------	--	--------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	869.7 – 870 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	25 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Techniques to access radio spectrum and mitigate interference, ensuring an appropriate performance level to meet the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured. An operating cycle limit of 1% may also be used.	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220-2; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-25	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	<i>This set of usage conditions applies to data networks, exclusively. All devices in the data network are under the control of network access points.</i>
	3	Frequency band	874 – 874.4 MHz (minimal central harmonized band)	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2018/1538 of 11 October 2018 on the harmonisation of radio spectrum for use by short-range devices within the 874-876 and 915-921 MHz frequency bands).</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	Bandwidth: ≤ 200 kHz	
	6	Direction/Separation	-	
	7	Transmit power / Power density	500 mW effective radiated power (e.r.p.)	<i>Adaptive power control (APC) is required; alternatively, other mitigation techniques that achieve at least an equivalent level of spectrum compatibility are possible.</i>
	8	Channel occupation and access rules	Techniques to access radio spectrum and mitigate interference, ensuring an appropriate performance level to meet the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards or parts thereof the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured. Operating cycle limit: ≤ 10 % for network access points. Operating cycle limit: 2.5 % in the other cases.	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220; EN 303 204; Commission Implementing Decision (EU) 2018/1538 of 11 October 2018 on the harmonisation of radio spectrum for use by short-range devices within the 874-876 and 915-921 MHz frequency bands	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-26	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	<i>This set of usage conditions applies to data networks, exclusively. All devices in the data network are under the control of network access points.</i>
	3	Frequency band	917.3 – 918.9 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2018/1538 of 11 October 2018 on the harmonisation of radio spectrum for use by short-range devices within the 874-876 and 915-921 MHz frequency bands).</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	Bandwidth: ≤ 200 kHz	
	6	Direction/Separation	-	
	7	Transmit power / Power density	500 mW effective radiated power (e.r.p.) Transmissions are allowed only in bands 917.3- 917.7 MHz and 918.5- 918.9 MHz.	<i>Adaptive power control (APC) is required; alternatively, other mitigation techniques that achieve at least an equivalent level of spectrum compatibility are possible.</i>
	8	Channel occupation and access rules	Techniques to access radio spectrum and mitigate interference, ensuring an appropriate performance level to meet the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards or parts thereof the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured. Operating cycle limit: ≤ 10 % for network access points. Operating cycle limit: ≤ 2.5 % in the other cases.	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220; EN 303 659; Commission Implementing Decision (EU) 2018/1538 of 11 October 2018 on the harmonisation of radio spectrum for use by short-range devices within the 874-876 and 915-921 MHz frequency bands; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-27	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	<i>This set of usage conditions applies exclusively to ShortRange Devices in the data networks. All devices in the data network are under the control of network access points.</i>
	3	Frequency band	917.4 – 919.4 MHz (minimal central harmonized band)	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2018/1538 of 11 October 2018 on the harmonisation of radio spectrum for use by short-range devices within the 874-876 and 915-921 MHz frequency bands).</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	Bandwidth: ≤ 600 kHz	
	6	Direction/Separation	-	
	7	Transmit power / Power density	25 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Techniques to access radio spectrum and mitigate interference, ensuring an appropriate performance level to meet the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards or parts thereof the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured. Operating cycle limit: ≤ 1 %	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 220; EN 303 659; Commission Implementing Decision (EU) 2018/1538 of 11 October 2018 on the harmonisation of radio spectrum for use by short-range devices within the 874-876 and 915-921 MHz frequency bands	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-28	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	2 400 – 2 483.5 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW equivalent isotropic radiated power (e.i.r.p.)	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 440; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-29	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	5 725 – 5 875 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	25 mW equivalent isotropic radiated power (e.i.r.p.)	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 440; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-30	Edition 3/2020
----------------	--------------------------------------	---	--------------------	-----------------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	24 – 24.15 GHz	
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	100 mW e.i.r.p.	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 440; ERC/REC 70-03	
	14	Notification number	2014/597/RO	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-31	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	24.15 – 24.25 GHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	100 mW equivalent isotropic radiated power (e.i.r.p.)	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 300 440; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-32	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	57 – 64 GHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	100 mW equivalent isotropic radiated power (e.i.r.p.) and 10 dBm maximum transmit power	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 305 550; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-33	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	61 – 61.5 GHz	<i>Harmonised radio spectrum for use by short-range devices (Commision Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	100 mW equivalent isotropic radiated power (e.i.r.p.)	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 305 550; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-34a	Edition 3/2020
---------	-------------------------------	--	--------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	122 – 122.25 GHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 dBm /250 MHz equivalent isotropic radiated power (e.i.r.p.) and – 48 dBm/MHz for a 30° elevation	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 305 550; Commision Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-34b	Edition 3/2020
---------	-------------------------------	--	--------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	122.25 – 123 GHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	100 mW equivalent isotropic radiated power (e.i.r.p.)	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 305 550; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Non-specific Short-Range Devices	RO-IR 01-35	Edition 3/2020
---------	-------------------------------	--	-------------	----------------

	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Non-specific Short-Range Devices	
	3	Frequency band	244 – 246 GHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices)</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	100 mW equivalent isotropic radiated power (e.i.r.p.)	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 305 550; Commission Implementing Decision 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions of the radio spectrum for use by short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1