THE MINISTRY OF INFORMATION AND COMMUNICATIONS	**SOCIALIST REPUBLIC OF VIETNAM** **Independence - Freedom - Happiness**
No: 05/2019/TT-BTTT	*Hanoi, date 09 month 07 year 2019*

CIRCULAR

Regulations on list of products and goods liable to cause unsafety under the governance of the Ministry of Information and Communications

Pursuant to the Law on quality of products and goods dated November 21th, 2007;

Pursuant to the Law on Telecommunications dated November 23rd, 2009;

Pursuant to the Law on Radio Frequency dated November 23rd, 2009;

Pursuant to the Law on Information Technology dated June 29th, 2006;

Pursuant to Decree No. 132/2008/ND-CP dated December 31st, 2008 promulgated by the Government on detailing the implementation of some articles of the Law on quality of products and goods, Decree No. 74/2018/ND-CP dated May 05th, 2018 promulgated by the Government on amending and supplementing some articles of Decree 132/2008/ND-CP promulgated by the Government on stipulating in detail the implementation of some articles of Law on quality of products and goods.

Pursuant to Decree No. 17/2017/ND-CP dated February 17th, 2017 promulgated by the Government regulating the functions, tasks, authority and organizational structure of the Ministry of Information and Communications;

Pursuant to the proposal of Director General of Department of Science and Technology;

Minister of Information and Communications issues the Circular prescribing Regulations on list of products and goods potentially cause unsafety under the governance of the Ministry of Information and Communications.

Article 1. Scope of application

1. This Circular specifies list of products and goods potentially causing unsafety under the governance of the Ministry of Information and Communications (hereinafter referred to as the “List of products and goods in Group 2”)

2. This Circular applies only to products and goods with product or goods descriptions in List of products and goods in Group 2.

Article 2. Subjects of application

This Circular is applicable to:

1. Organizations and individuals engage in production and business of products and goods in List of products and goods in group 2 in Vietnam.

2. Organizations and individuals engage in managing the quality of products and goods in List of products and goods in group 2 in Vietnam.

Article 3. List of products and goods in group 2.

1. The list of products and goods in group 2 and forms of management are defined as follows:

a) "The list of products and goods in information technology and telecommunication requiring mandatory Type Approval certification and Declaration of Conformity" are stipulated in Appendix I of this Circular.

b) "The list of products and goods in information technology and telecommunication requiring mandatory Declaration of Conformity" are stipulated in Appendix II of this Circular.

2. In each period, the Ministry of Information and Communications shall consider amending and adjusting the list of products and goods in group 2 to be consistence with State management policies.

Article 4. Management Principles

1. The management of products and goods in group 2 is implemented pursuant to the regulation issued by the Ministry of Information and Communications on Type Approval certification, Declaration of Conformity and the product quality inspection for products, goods in information technology and telecommunication industries according to national standards.

2. Products and goods in group 2 that integrates the functionality of other products and goods in group 2 must be certified with type approval certification, declaration of conformity according to national standards applied to products and goods which are integrated.

3. In case there are national technical standard newly issued to amend, or replace, or renew standards applied for products and goods in List of products, goods in group 2, the new national standards shall automatically take effect.

4. In case there is any difference in Type Approval certification and Declaration of Conformity certification between national technical standards applied for products and this Circular, this Circular shall be prevailed.

Article 5 Provisions of implementation

1. This Circular takes effect from September 1st, 2019 and replaces Circular No. 04/2018/TT-BTTTT dated May 8th, 2018 issued by the Minister of Information and Communications on Regulations on list of products and goods

potentially unsafe under the governance of the Ministry of Information and Communications.

2. Type approval certificate, Letter of notification for acceptance of declaration of conformity have been issued before the effective date of this Circular, which are not expired yet, shall be kept its validity continuously until new national standard come into force accordingly.

3. During the implementation period of national technical regulations, standards, and local testing, individual and organization shall report the issue and follow official guidance of Ministry of Information and Communications (particularly Department of Science and Technology).

4. In case issue arising out of determining HS codes of imported goods which likely cause unsafety under the regulating of this Circular, the Ministry of Information and Communication shall coordinate with the Ministry of Finance (particularly General Department of Customs) to settle.

5. Chief of MIC Office, General Director of Department of Science, Directors of other departments of MIC, Heads of agencies and authorities under the Ministry of Information and Communications, related organizations and individuals shall be responsible for the implementation this Circular. / .

Recipients:
- Prime Minister, the Deputy Prime Minister;
- Government office;
- The ministries, ministerial-level agencies, Governmental units;
- Preople's Committees of provinces and cities under CeQCVNal authority;
- Department of Information and Communications provinces and cities under ceQCVNal authority;
- Bureau of Legal Normative Documents Post-Review (Ministry of Justice);
- Gazette, Government Web portal;
- MIC: Ministers and Deputy Ministers,
Departments of MIC
Web portal of MIC
- Archive: Filling, Department Science and Technology (250).

MINISTER

Annex I

THE LIST OF PRODUCTS AND GOODS IN INFORMATION TECHNOLOGY AND TELECOMMUNICATION REQUIRING MADATORY TYPE APPROVAL CERTIFICATION AND DECLARATION OF CONFORMITY

(Promulgated with Circular 05/ 2019/ TT-BTTTT dated July 9th, 2019 by Minister of Information and Communications)

STT	Names of products and goods	Applicable national standards	HS codes according to Circular No. 65/2017 / TT-BTC	Description
1	**Terminal Equipment**			
1.1	Wireless telephone equipment, DECT extension type	QCVN 47: 2015/BTTTT QCVN 22: 2010/BTTTT QCVN 113: 2017/ BTTTT (*)	8517.11.00	A telephone set consists of a base (Base Station) comes with one or more wireless mobile phone (handset) using DECT technology. The handset connected to a PSTN land line via the base station, which radiates signals to handset, connecting them also to the PSTN wirelessly.
1.2	Public land mobile communication terminal equipment			
1.2.1	GSM terminal equipment	QCVN 12: 2015/BTTTT QCVN 86: 2015/BTTTT (*) QCVN 101:2016/BTTTT (*)	8517.12.00	Telephones or mobile terminals using GSM technology (2G) with or without one or more of the integrated or removable following functions: -Mobile terminal using W-CDMA FDD technology; -Mobile terminal using E-UTRA FDD technology; -Radio modulation technique using spread spectrum in the 2.4 GHz band;

				- Accessing 5 GHz radio frequency band; - Transmitting, transceiving short-range radio frequency.
1.2.2	W-CDMA FDD terminal equipment	QCVN 15:2015/BTTTTT QCVN 18:2014/BTTTT(*) QCVN 101:2016/BTTTT (*)	8517.12.00	Telephones or mobile terminals using W-CDMA FDD technology (3G) with or without one or more of the integrated or removable following functions: -Mobile terminal using GMS technology; -Mobile terminal using E-UTRA FDD technology; - Radio modulation technique using spread spectrum in the 2.4 GHz band; - Accessing 5 GHz radio frequency band; - Transmitting, transceiving short-range radio frequency.
1.2.3	E-UTRA FDD terminal equipment	QCVN 117:2018/BTTTT QCVN 18:2014/BTTTT(*) QCVN 101:2016/BTTTT (*)	8517.12.00	Telephones or mobile terminals using E-UTRA FDD technology (4G) with or without one or more of the integrated or removeable following functions: - Mobile terminal using GSM technology; - Mobile terminal using W-CDMA FDD technology; - Radio modulation technique using spread spectrum in the 2.4 GHz band; - Accessing 5 GHz radio frequency band; - Transmitting, transceiving short-range radio frequency.

2	**Radio transmitter, transceivers using radio frequency from 9 kHz to 400 GHz and RF transmit power from 60 mW upward**			
2.1	Radio transmitter, transceivers equipment in fixed and land mobile radio communication service			
2.1.1	GSM mobile communication base station equipment	QCVN 41: 2016/BTTTT QCVN 103:2016/BTTTT(*)	8517.61.00	Base transceiver stations (BTS) used in a GSM network (2G) with or without one or two integrated or removable following functions: - Base transceiver stations in network using W-CDMA FDD technology - Base transceiver stations in network using E-UTRA FDD technology
2.1.2	W-CDMA FDD mobile communication base station equipment	QCVN 16:2018/BTTTT QCVN 103:2016/BTTTT(*)	8517.61.00	Base transceiver stations (BTS) used in a W-CDMA FDD network (3G) with or without one or two integrated or removable following functions: - Base transceiver stations in network using GSM technology; - Base transceiver stations in network using E-UTRA FDD technology
2.1.3	E-UTRA FDD mobile communication base station equipment	QCVN 110:2017/BTTTT QCVN 103:2016/BTTTT(*)	8517.61.00	Base transceiver stations (BTS) used in a E-UTRA FDD network with or without one or two integrated or removable following functions: - Base transceiver stations in network using GSM technology;

				- Base transceiver stations in network using W-CDMA FDD technology
2.1.4	Land mobile radio equipment using an integral antenna intended primarily for analogue speech	QCVN 37: 2018/BTTTT QCVN 18: 2014/BTTTT(*)	8517.12.00	Hand-held radio transmitter having integrated antenna using angle modulation in land mobile radio communication service, primarily for analog speech, frequency range from 30 MHz to 1000 MHz, channel spacing is 12.5 kHz and 25 kHz.
2.1.5	Land mobile radio equipment having an external antenna connector intended for the transmission of data (and speech)	QCVN 42: 2011/BTTTT QCVN 18: 2014/BTTTT (*)		Handheld radio transmitter and devices of a similar combination/digital equipment having removable antenna for the purpose of data and/or voice transmission, including:
			8517.61.00	- Base station equipment (antenna socket is used at a fixed location);
			8517.12.00	- Mobile station (with antenna socket commonly used on a means of transport or as a mobile station) or a handset for the purpose of transmitting data and/or speech
2.1.6	Land mobile radio equipment having an external antenna connector intended primarily for analogue speech	QCVN 43: 2011/BTTTT QCVN 18: 2014/BTTTT (*)		Hand-held radio transmitter having removable antenna using angle modulation in land mobile radio communication service, primarily for analog speech, frequency range from 30 MHz to 1000 MHz, channel spacing is 12.5 kHz and 25 kHz, including:
			8517.61.00	- Base station equipment (antenna socket);
			8517.12.00	- The mobile station (with antenna socket);

			8517.12.00	- Handheld transmitter with antenna socket; or no antenna socket (integral antenna equipment), but the 50 Ω RF fixed or temporarily connector inside allows connecting to the transmitter output port receiver input port.
2.1.7	Land mobile radio equipment having an integral antenna intended primarily for data transmission (and speech)	QCVN 44: 2018/BTTTT QCVN 18: 2014/BTTTT (*)	8517.12.00	Land mobile radio equipment using constant envelope modulation, operating frequency from 30 MHz to 1 GHz, channel spacing is 12.5 kHz and 25 kHz, including digital radio handset or devices of a similar combination/digital equipment for the purpose of data/speech transmission.
2.1.8	GSM repeater	QCVN 47: 2015/BTTTT QCVN 103:2016/BTTTT (*)	8517.62.59	Radio equipment has the capability of receiving and repeating signals from GSM network (2G) with or without one or two integrated or removable following functions: - Receiving and repeating signals from W-CDMA FDD network; - Receiving and repeating signals from E-UTRA FDD network.
2.1.9	W-CDMA FDD repeater	QCVN 66: 2018/BTTTT QCVN 103:2016/BTTTT (*)	8517.62.59	Radio equipment has the capability of receiving and repeating signals from W-CDMA network (3G) with or without one or two integrated or removable following functions: - Receiving and repeating signals from GSM network;

				- Receiving and repeating signals from E-UTRA FDD network.
2.1.10	E-UTRA FDD repeater	QCVN 111: 2017/BTTTT QCVN 103: 2016/BTTTT (*)	8517.62.59	Radio equipment has the capability of receiving and repeating signals from E-UTRA FDD network (4G/LTE) with or without one or two integrated or removable following functions: - Receiving and repeating signals from GSM network; - Receiving and repeating signals from W-CDMA network.
2.2	Radio transmitters, transceivers used in television broadcasting service			
2.2.1	DVB-T2 broadcaster	QCVN 77: 2013/BTTTT	8525.50.00	Radio transmitter for broadcasting services using DVB-T2 terrestrial digital standard with a bandwidth of 8 MHz channel.
2.3	Radio transmitters, transceiver equipment used in sound broadcasting service			
2.3.1	Sound broadcasting service transmitter / transceiver use amplitude modulated (AM) technique	QCVN 29: 2011/BTTTT	8525.50.00	Radio equipment using amplitude modulated technique (AM) in sound broadcasting service, operating frequency in the medium wave band (from 526.5 kHz to 1606.5 kHz) and short wave band (from 3.2 MHz to 26.1 MHz).
2.3.2	Sound broadcasting service transmitter / transceiver use frequency modulated (FM) technique	QCVN 30: 2011/BTTTT	8525.50.00	Radio equipment using frequency modulated technique (FM) in sound broadcasting service, operated in both mono and stereo mode, frequency range: 68 MHz ÷ 108 MHz.

2.3.3	Sound broadcasting service transmitter / transceiver use frequency modulated (FM) technique operating from 54 MHz to 68 MHz	QCVN 70: 2013/BTTTT	8525.50.00	Wireless radio equipment using frequency modulated technique (FM), operating from 54 MHz to 68 MHz, working in mono mode.
2.4	Radar equipment			
2.4.1	Radar equipment (including aeronautical and maritime mobile service, except Radar equipment in road or rail transportation)	QCVN 47: 2015/BTTTT QCVN 18: 2014/BTTTT (*)	8526.10.10 8526.10.90	All kinds of radio equipment on the ground, or fitted on civil aircraft, or only used for sailing boats or other types, except Radar equipment in road or rail transportation.
2.5	Super high frequency digital transmission equipment			

2.5.1	Super high frequency digital transmission equipment	- Point-to-point SHF equipment using frequency band with 1.4 GHz – 55 GHz QCVN 53: 2017/BTTTT QCVN 18: 2014/BTTTT (*) - Non Point-to-point SHF equipment using frequency band with 1.4 GHz – 55 GHz QCVN 47: 2015/BTTTT QCVN 18: 2014/BTTTT (*)	8517.62.59	Transmission radio equipment in combination with digital microwave receivers.
3	**Short-range radio transmitter and transceiver (**)**			
3.1	Short-range radio transmitter and transceiver used for non-specific application	- For devices frequency band 9 kHz - 25 MHz: QCVN 55: 2011/BTTTT QCVN 96: 2015/BTTTT (*) - For device uses frequency band 25 MHz – 1 GHz QCVN 73: 2013/BTTTT QCVN 96: 2015/BTTTT (*)	8504.40.90	- The inductive loop wireless charger
			8525.50.00	- Personal FM transmitter;
			8517.62.59 8517.62.69	- Device has external and/or integrated antenna for the transmission or record of speech, image or other data forms
			8526.10.90	- Radio transmitter for navigation, inapplicable for maritime and aviation

		- For device uses frequency band 1 GHz – 40 GHz QCVN 74: 2013/BTTTT QCVN 96: 2015/BTTTT (*)	8526.10.10 8526.10.90	- Radar detection devices
			8526.92.00	- Remote control devices, radio telemetry instrumentation
3.2	Radio equipment operating in the 2.4 GHz band and using spread spectrum modulation techniques having equivalent isotropic radiated output power from 60 mW or upwards	- For device having EIRP power from 60 mW to 100 mW: QCVN 54: 2011/BTTTT QCVN 112: 2017/BTTTT (*) - For device having EIRP power greater than 100 mW: QCVN 47: 2015/BTTTT QCVN 112: 2017/BTTTT (*)	8517.62.51	WiFi wireless transceivers operating in 2.4 GHz band (WiFi mode, access point) having equivalent isotropic radiated output power from 60 mW or upwards, with or without one or more integrated or removable following functions: - Accessible to 5 GHz band; - GSM mobile terminal; - W-CDMA FDD mobile terminal; - E-UTRA FDD (4G / LTE) mobile terminal; - Others short-range radio equipment
			8802.20.90	Flycam (TV camera, digital camera, recorder) are remote controllable, using spread spectrum modulated techniques in the 2.4 GHz band, having EIRP power from 60 mW or upwards.

			8802.20.90	UAV/drone (aircraft integrates with TV camera, digital camera, recorder) using spread spectrum modulated and remote-control techniques in the 2.4 GHz band, having EIRP power from 60mW upward.
3.3	Radio equipment operating in the 5 GHz band and having equivalent isotropic radiated output power from 60 mW or upwards	QCVN 65: 2013/BTTTT QCVN 112:2017/BTTTT (*)	8517.62.51	Wifi wireless transceivers operating in the 5 GHz band (Wifi Modem, access point) having equivalent isotropic radiated output power from 60 mW or upwards, with or without one or two integrated or removable following functions: - Transceiver uses spread spectrum modulated technique in the 2.4 GHz band; - GSM mobile terminal; - W-CDMA FDD mobile terminal; - E-UTRA FDD (4G / LTE) mobile terminal; - Other short-range radio equipment
			8802.20.40	Flycam (TV camera, digital camera, recorder) are remote controllable, using spread spectrum modulated techniques in the 5 GHz band, having EIRP power from 60 mW or upwards.

			8802.20.90	UAV/drone (aircraft integrates with TV camera, digital camera, recorder) using spread spectrum modulated and remote-control techniques in the 5 GHz band, having EIRP power from 60mW upward.
3.4	UWB radio transmitter and transceiver	QCVN 47: 2015/BTTTT QCVN 94: 2015/BTTTT (*)	8517.62.59	Devices using the technology ultrawideband (UWB) applications for indoor or mobile and portable, including: - The independent radio equipment with or without control panel attached; - The wireless device in module format (plug-in device) uses to plug into main devices, such as personal computers, portable terminals ...; - The radio equipment is used in plug-in device combinations, such as cable modems, set-top boxes, access points; - Equipment combinations or combinations of radio plug-in equipment and a specific main device; - Equipment uses in road transportation and railways.
3.5	High data rate radio access	QCVN 88: 2015/BTTTT	8517.62.51	Gigabit high-speed radio equipment in the local

	transmitter and transceiver operation in the 60 GHz band	QCVN 112:2017/BTTTT (*)		WLAN network or individual wireless WPAN network, short-range transmitter, operating in the 60 GHz band (with the except of radio equipment uses for extended outdoor LAN network or radio transmission from point-to-point, operating in the 60 GHz band).
3.6	Wireless digital video transmission equipment	QCVN 92: 2015/BTTTT QCVN 93: 2015/BTTTT (*)		Wireless digital video transmission equipment operating from 1.3 GHz to 50 GHz and channel bandwidth allows up to 5 MHz, 10 MHz, 20 MHz, including.
			8525.50.00	- Transmitter
			8525.60.00	-Radio transmitters come with receivers
3.7	Wireless sound equipment operating in frequency range from 25 MHz to 2000 MHz	QCVN 91: 2015/BTTTT	8518.10.11 8518.10.19 8518.10.90	Wireless microphone operating frequency from 25 MHz to 2000 MHz
			8518.21.10 8518.21.90 8518.22.10 8518.22.90 8518.29.20 8518.29.90	Wireless speaker operating frequency from 25 MHz to 2000 MHz

			8518.30.10 8518.30.20	Wireless headphone, earphone operating frequency from 25 MHz to 2000 MHz
			8518.30.51 8518.30.59 8518.30.90	Wireless microphone in combination with speaker operating frequency from 25 MHz to 2000 MHz
3.8	Other short-range radio transmitter and transceiver	- For device uses frequency band from 9 kHz to 40 GHz: QCVN 47: 2015/BTTTT QCVN 96: 2015/BTTTT (*) - For equipment operating frequency above 40 GHz: QCVN 18: 2014/BTTTT (*)	8526.92.00	- Remoted control radio equipment
			8526.92.00	- Remoted control radio detection and alarm device
			8526.10.90	- Radio telemetry equipment (with the exception of equipment uses for land services, or equipped on civil aircraft, or equipped for only vessels)
			8517.62.59	Short-range devices, operating frequency from 401 MHz – 406 MHz, equipped in sensor, remote data transmission
			8517.62.59	Short-range devices, operating frequency from 76 GHz - 81 GHz, uses for detecting objects, alarming and remote measurement

			8517.62.59	Non-stop traffic toll station, using RFID radio frequency band from 920 MHz to 923 MHz. High output power from 500 mW ERP upwards, consisting of two separate blocks connected via radio interface: -Radio transceiver device, storing information in the form of electronic chip card (RF tag), with or without power supply, mounted on identified objects. -Radio transceiver (RF reader) to active the card and receive card information, transfer the data to processing system.
			817.62.59	-Others short-range transmitter, transceiver; -Others short-range transmitter, transceiver listed in section 3 of this Annex but lay outside the scope of national standards accordingly

Note: The implementation of Type approval certification and Declaration of Conformity for products, goods specified in Annex I for some specific cases defined as follows:

(*) For this standard, the device shall not subject to Type Approval certification but only applies for Declaration of Conformity certification as devices listed in Annex II of this Circular. QCVN 101:2016/BTTTT is only applicable to mobile phone and subject to safety declaration,

which provided in Article 2.6 of this standard, transport requirement provided in Article 2.6.2.7 of this standard is exempted from mandatory certification

(**) Short-range radio transmitters, transceivers are stipulated in Circular no.46/2016/TT-BTTTT dated December 26th, 2016 issued by MIC on regulate the list of license-free frequency bands for radio devices, amended and supplemented by Circular no.18/2018/TT-BTTTT dated December 20th, 2018. Short-range devices do not include receiver; Radio equipment operating in the 2.4 GHz band and using spread spectrum modulation techniques with EIRP power less than 60mW; Radio access equipment operating in the 5 GHz band with EIRP power less than 60 mW. Type Approval certification and Declaration of Conformity shall be allowed if the device meet the requirement of frequency range and exploiting accordingly.

Annex II

THE LIST OF PRODUCTS AND GOODS IN INFORMATION TECHNOLOGY AND TELECOMMUNICATION REQUIRING MADATORY DECLARATION OF CONFORMITY

(Promulgated with Circular 05/ 2019/ TT-BTTTT dated July 9th, 2019 by Minister of Information and Communications)

STT	Names of products and goods	Technical regulations applicable	HS codes according to Circular No. 65/2017 / TT-BTC	Description
first	**Information technology equipment**			
1.1	Desktop personal computer (desktop computer)	QCVN 118: 2018/BTTTT	8471.41.10	Equipment contain all parts in sole cover. with at least a processing chip set, a unit of input and output, combined or separated, with or without one or more integrated or removable functions: - Radio transceiver uses spread spectrum modulation technique in the 2.4 GHz band; - Accessible 5 GHz radio band.
1.2	Notebook (laptop and portable computers)	QCVN 118: 2018/BTTTT QCVN 101: 2016/BTTTT(**)	8471.30.20	Automatically data processing machine, portable, weighing less than 10 kg, consisting of at least one unit of data processing center, a keyboard and a screen, with or without one or more integrated or removeable functions: - Radio transceiver uses spread spectrum

				modulation technique in the 2.4 GHz band; - Accessible 5 GHz radio band. - Capable of transmitting short-range radio frequency.
1.3	Tablet (Tablet)	QCVN 118: 2018/BTTTT QCVN 101:2016/BTTTT (**)	8471.30.90	Automatically data processing machine, portable, weighing less than 10 kg, consisting of at least one unit of data processing center, a keyboard and a screen (except for laptop, notebook, subnotebooks), with or without one or more integrated or removable functions: - Radio transceiver uses spread spectrum modulation technique in the 2.4 GHz band; - Accessible 5 GHz radio band. - Capable of transmitting short-range radio frequency.
2	**Sound and television broadcasting equipment**			
2.1	Set Top Box used for satellite television network (except for DVB-S/S2 Set Top Box)	QCVN 118: 2018/BTTTT	8528.71.91 8528.71.99	Decoding satellite TV signals equipment in analog (analog), no interactive features information.
2.2	DVB-S/S2 Set Top Box used for satellite television network	QCVN 118: 2018/BTTTT	8528.71.91 8528.71.99	Receiving equipment used to receive, decode unencrypted satellite signals (Free To Air - FTA) by using DVB-S and / or DVB-S2 technology,

				SDTV/HDTV supported. No interactive features information.
2.3	Set Top Box used for digital cable television	QCVN 118: 2018/BTTTT	8528.71.11 8528.71.19 8528.71.91 8528.71.99	Decoding satellite TV signals equipment in TV cable network, with or without interactive features information with service providers.
2.4	Set Top Box used for IPTV television network	QCVN 118: 2018/BTTTT	8528.71.11 8528.71.19 8528.71.91 8528.71.99	Decoding satellite TV signals equipment in IPTV cable network (internet protocol television), with or without interactive features information with service providers.
2.5	DVB-T2 Set Top Box	QCVN 63: 2012/BTTTT(*)	8528.71.91 8528.71.99	Decoding television signals equipment using digital terrestrial DVB-T2 technology, no interactive features information.
2.6	DVB-T2 (iDTV) integrated TiVi	QCVN 63: 2012/BTTTT(*)	8528.72.92 8528.72.99	Receiving equipment used to decode television signals using digital terrestrial DVB-T2 technology. Design for mounting devices or video screens, colored, non-battery operated and do not use ray tube cathode.
2.7	Amplifier used in television cabled distribution network	QCVN 72: 2013/BTTTT	8517.62.49	Equipment function signal amplifiers used in cable networks (wireline carrier system or a wired system digital).

3	**Terminals devices**			
3.1	Cordless telephone (Subscriber extensions type)	QCVN 10: 2010/BTTTT QCVN 22: 2010/BTTTT QCVN 18: 2014/BTTTT		Wireless subscriber extensions telephone with transmitter power to 25W on PSTN landline, used to transmit analogue signal and is connected to the landline via analog two-wire interface (except DECT phone). This device consists of two separate blocks are connected together via the radio interface:
			8517.11.00	- Base station is fixed and connected to the phone wire public telephone network (PSTN); using the integrated antenna or external antenna connector
			8517.11.00	- The handset uses integrated antennas and base station or mounted on mobile vehicles with external antenna connector. The telephone number shall be identified based on the handset and it is cable of entering a conversation with base station.
4	**Radio transmitters, transceivers operating from 9 kHz and 400 GHz band with the output power from 60mW upwards.**			
4.1	Radio transmitters, transceivers radio used in the land mobile service			

4.1.1	Angle-modulated radio equipment using 27 MHz citizen's band	QCVN 23: 2011/BTTTT QCVN 18: 2014/BTTTT		Radio equipment using constant envelope modulation in land mobile service, using the available bandwidth, operating in the frequency range under the 27 MHz citizen's band, with channel spacing of 10 kHz for speech and data transmission, including:
			8517.61.00	- The base station (device antenna socket, used at fixed locations) (8517.61.00)
			8517.12.00	- Mobile equipment (devices with antenna socket, normally used on vehicles or mobile stations) (8517.12.00);
			8517.12.00	- And the handset (with antenna socket; or no external antenna socket) (8517.12.00).
4.1.2	Double side band and/or single side band amplitude modulated radio equipment using 27 MHz citizen's band	- For equipment single-side band amplitude modulation with ERP output power up to 4W and double-side band amplitude modulation with ERP output power up to 1W: QCVN 25: 2011/BTTTT QCVN 18: 2014/BTTTT		Analog radio equipment and combined analog-digital equipment with inner or outer antenna connector, operating in the 27 MHz citizen's band, single-side band or double side band modulation, channel spacing 10 kHz, used to transmit speech and data, including:
			8517.61.00	- The base station (device antenna socket, used at fixed locations) (8517.61.00);

		- For equipment single-side band amplitude modulation with ERP output power from 4W above to 12W and double-side band amplitude modulation with ERP output power from 1W above to 4W: QCVN 47: 2015/BTTTT QCVN 18: 2014/BTTTT		
			8517.12.00	- Mobile devices (devices with antenna socket, normally used in the mobile station) for data and speech transmission - Mobile devices (devices with antenna socket,
			8517.62.59	normally used in mobile station) for data transmission
			8517.12.00	Mobile handset (with antenna socket; or no external antenna socket) for data and speech transmission
			8517.62.59	Mobile handset (with antenna socket; or no external antenna socket) for data transmission
4.1.3	Low-Data-Rate data transmission equipment operating in the 5.8 GHz band used in Transport application	QCVN 75: 2013/BTTTT QCVN 18: 2014/BTTTT	8517.62.59	Low-Data-Rate data transmission equipment operating in the 5.8 GHz band used in Transport application (associated with receiver) - Having radio connector and antenna or integrated antenna; - Only use for data transmission; - Data rate up and down up to 31.5 kbit/s; - Operating in the radio frequency range from 5725 MHz to 5875 MHz.

4.1.4	High-Data-Rate data transmission equipment operating in the 5.8 GHz band used in Transport application	QCVN 76: 2013/BTTTT QCVN 18: 2014/BTTTT	8517.62.59	High-Data-Rate data transmission equipment operating in the 5.8 GHz band used in Transport application (associated with receiver) - Having radio connector and antenna or integrated antenna; - Only use for digital data transmission; - Data rate up and down to 1 Mbit/s; - Operating in the radio frequency range from 5725 MHz to 5875 MHz.
4.1.5	Medium-Data-Rate data transmission equipment operating in the 5.8 GHz band used in Transport application	QCVN 99: 2015/BTTTT QCVN 18: 2014/BTTTT	8517.62.59	High-Data-Rate data transmission equipment operating in the 5.8 GHz band used in Transport application (associated with receiver) - Having radio connector and antenna or integrated antenna; - Only use for digital data transmission; - Data rate up to 250 kbit/s and down to 500 kbit/s; - Operating in the radio frequency range from 5.725 GHz to 5.875 GHz.
4.1.6	TETRA equipment	QCVN 47: 2015/BTTTT		TETRA trunking equipment for land mobile service, including:

		QCVN 100: 2015/BTTTT	8517.61.00	- Base Station (BS);
			8517.12.00	- Portable mobile phone - Portable mobile phone - direct mode (DM-MS) - Portable mobile phone DW (DW-MS)
			8517.62.59	- Repeater - direct mode (DM-REP), except the phone - Repeater/Port - direct mode (DM-REP / GATE), except the phone - Equipment Repeater - trunked mode (TMO-REP), except the phone
			8517.62.59 8517.62.69	- Port - direct mode (DM-GATE), except the phone - Equipment of the mobile radio communication system TETRA, except the phone
4.2	Radio transmitters, transceivers used for satellite communication service (except for devices used in the maritime and aeronautical mobile service)			
4.2.1	C ban VSAT transmitter and transceiver	QCVN 38: 2011/BTTTT QCVN 18: 2014/BTTTT	8517.62.59	C ban VSAT transmitter and transceiver operating in C-band communication services via satellite under the geostationary orbit.
4.2.2	Ku-band VSAT transmitter and transceiver	QCVN 39: 2011/BTTTT	8517.62.59	Ku-band VSAT transmitter and transceiver operating in the Ku-band communication services

		QCVN 18: 2014/BTTTT		via satellite under the geostationary orbit.
4.2.3	Mobile earth stations for Global Non-Geostationary Mobile – Satellite Service Systems operate in 1-3 GHz	QCVN 40: 2011/BTTTT QCVN 18: 2014/BTTTT	8517.62.59	Mobile earth terminal stations in non-geostationary global satellite communicating systems global operating from 1 GHz - 3 GHz band
4.2.4	Ku-band land mobile station	QCVN 116: 2017/BTTTT	8517.62.59	Mobile station (MES) (except the aeronautical station mobile, operating in Ku band) operating in the frequency range of the Fixed Service Satellite (FSS) (associated with receiver): - 10.70 GHz to 11.70 GHz (from-space-to-Earth); - 12.50 GHz to 12.75 GHz (from-space-to-Earth); - 14.00 GHz to 14.25 GHz (from-space-to-Earth).
4.3	Radio transmitters, transceivers used for maritime mobile services (including additional equipment, satellite equipment)			
4.3.1	GMDSS transceiver at coast station	QCVN 24: 2011/BTTTT		Radio transmitter, transceiver with external antenna connector of the coastal stations, operating in the VHF band of the maritime mobile service and used G3E, and G2B radiation for DSC signaling.

			8517.62.53	- Equipment for analogue speech, calling select (DSC), or both;
			8517.62.59	- Equipment operating in frequency bands from 156 MHz to 174 MHz; - Remote or local controllable equipment - The equipment operates with 25 kHz channel spacing; - Equipment operating in simplex mode, demi-duplex mode and duplex mode; - Equipment may be single-channel or multi-channel; - Equipment operating in areas shared radio; - Equipment separate activities for other wireless devices.
4.3.2	Two-way VHF radiotelephone apparatus for fixed installation in survival craft	QCVN 26: 2011/BTTTT	8517.18.00	Two-way VHF radiotelephone operating in frequency bands from 156 MHz to 174 MHz used in maritime mobile service and proper for fixed installations on board in survival craft and global maritime distress and safety system (GMDSS).

4.3.3	Inmarsat-C ship earth station equipment	QCVN 28: 2011/BTTTT	8517.62.59	Inmarsat-C ship earth station equipment use on vessels which equipped with Global Maritime Distress and safety system (GMDSS) (associated with receiver).
4.3.4	VHF radiotelephone used on the survival craft	QCVN 50: 2011/BTTTT	8517.18.00	VHF radiotelephone used on the survival craft operating from 156 MHz to 174 MHz; in the maritime mobile service; proper for use on survival craft and can be used in ships.
4.3.5	Emergency Position Indicating Radio Beacons (EPIRB) operating in 406.0 MHz - 406.1 MHz	QCVN 57: 2018/BTTTT	8517.62.61	Emergency Position Indicating Radio Beacons (EPIRB) (only available for telegraph) operate via Cospas-SARSAT satellite systems for radio communication system Global Maritime Distress and safety system (GMDSS).
4.3.6	Personal Emergency Position Indicating Radio Beacons operating in the 406.0 MHz – 406.1 MHz frequency band	QCVN 108: 2016/BTTTT	8517.62.61	Personal Emergency Position Indicating Radio Beacons (only plays for telegraph) (hereinafter referred to as PLB) operate via Cospas-SARSAT satellites system. This PLB operate from 406.0 MHz to 406.1 MHz and in temperature ranges: - From -40 ° C to 55 ° C (float PLB type 1), or - From -20 ° C to 55 ° C (float PLB type 2).
4.3.7	DSC Digital -Selective – Calling telephone	QCVN 58: 2011/BTTTT	8517.62.59	Digital -Selective – Calling telephone but not the telephone equipment operating in MF, MF / HF and / or VHF the frequency bands used in Global Maritime Distress and safety system (GMDSS) is

				often used on ships and boats (associated with receiver).
4.3.8	Transponders for search and rescue	QCVN 60: 2011/BTTTT	8526.10.10	Radar transponder operating in 9200 ÷ 9500 MHz the frequency band for the purpose of searching and rescue.
4.3.9	Radio telex equipment operating in maritime MF/HF service	QCVN 62: 2011/BTTTT	8517.62.59	Radio telex device used on vessels in Global Maritime Distress and safety system (GMDSS) (associated with receiver).
4.3.10	Inmarsat F77 ship earth station equipment	QCVN 67: 2013/BTTTT	8517.62.59	Inmarsat F77 ship earth station equipment (SES) Global Maritime Distress and safety system (GMDSS) (associated with receiver).
4.3.11	Shipborne equipment of the Automatic Identification System (AIS)	QCVN 68: 2013/BTTTT	8526.91.10	Navigated radio equipment used in the system of automatic identification on vessels (determine the ship's location and the ships and boats around in a certain range to adjust the speed and direction accordingly).
4.3.12	Automatic identification transponder used in search and rescue	QCVN 107: 2016/BTTTT	8517.62.53	Automatic identification transponder used in search and rescue (AIS SART) (associated with receiver used for telegraphy).

4.3.13	VHF radio telephone used on rivers	QCVN 51: 2011/BTTTT	8517.18.00	VHF radio transmitter operates in the frequency band maritime mobile service for use on the river.
4.3.14	VHF radio telephone used for maritime mobile service	QCVN 52: 2011/BTTTT	8517.18.00	VHF radio transmitter associated with Digital - Selective – Calling telephone (DSC), having external antenna connector for used on boats.
4.3.15	MF and HF radio telephone	QCVN 59: 2011/BTTTT	8517.18.00	Receivers, radio transmitters used on large vessels, operating at medium frequency band (MF) or in the frequency band of medium and high frequency (MF/HF), operates in frequency band allocated to maritime mobile service (MMS), including: - Single-side band modulation device (SSB) for transmitting and receiving speech (J3F); - Equipment frequency shift key (FSK) or SSB device of the locked subcarrier to transmit and receive Digital Selective Calling signal (DSC); - The wireless device, not integrated with the encoder or decoder DSC, but define the interfaces with such devices.
4.3.16	UHF radio telephone	QCVN 61: 2011/BTTTT	8517.18.00	UHF radio equipment installed on large vessels and operates in frequency band allocated to maritime mobile service

4.4	Radio transmitters, transceivers used for mobile aeronautical (including additional equipment, satellite equipment)			
4.4.1	Amplitude modulated (AM) land radio equipment used in aeronautical mobile service, operating in 117.975 – 137 MHz band	QCVN 105:2016/BTTTT QCVN 106:2016/BTTTT		Double-sideband radio transmitter or combined with VHF receiver (DSB AM), with 8.33 kHz channel spacing or 25 kHz for analog telephone to transmit information to the ACARS. These devices include:
			8517.61.00	- Ground base station (8517.61.00);
			8517.12.00 8517.62.59 8517.62.69	- Mobile devices
			8517.12.00 8517.62.59 8517.62.69	- Portable and handheld devices used on land
4.4.2	Land radio equipment used in aeronautical mobile service, operating	QCVN 47:2015/BTTTT; QCVN 106:2016/BTTTT		Land radio equipment used in aeronautical mobile service, operate in all or part of the 117.975 MHz 137 MHz. frequency bands, including:

	in 117.975 – 137 MHz band		8517.61.00 8517.12.00	Land base station
			8517.62.59 8517.62.69	Mobile and portable device for land use
4.4.2	Landing angle navigator used in aeronautical	QCVN 104:2016/BTTTT QCVN 18:2014/BTTTT	8526.91.10	Landing angle navigator used in aeronautical operate from 328.6 MHz to 335.4 MHz.
4.5	Radio transmitters, transceivers used in remote positioning and distance measurement (excluding equipment used for offshore oil and gas industry)	QCVN 47: 2015/BTTTT QCVN 18: 2014/BTTTT	8517.62.59 8517.62.69	Radio transmitters, transceivers used in remote positioning and distance measurement (excluding equipment used for offshore oil and gas industry) but not applicable for telegraph / telephone
4.6	Radio navigator	QCVN 47: 2015/BTTTT QCVN 18: 2014/BTTTT	8526.91.10 8526.91.90	Radio navigator used for navigation and alarming obstacles in the maritime radionavigation services, Radionavigation-satellite service, maritime radionavigation services via satellite, aeronautical radio navigation service, aeronautical radio navigation service via satellite
4.7	Amateur radio equipment	QCVN 56: 2011/BTTTT	8517.62.59	Radio transmitters, transceivers operate on radio frequency bands allocated to amateur services

				(prescribed by the National frequency spectrum policy).
4.8	Other Equipment	QCVN 47: 2015/BTTTT QCVN 18: 2014/BTTTT	8517.62.59 8517.62.69 8517.62.99 8517.69.00 8526.10.10 8526.10.90 8526.91.10 8526.91.90 8526.92.00	- Radio transmitters, transceivers radio operate in 9 kHz - 400 GHz frequency band and with output power from 60 mW upwards that do not listed in Section 2 of Appendix I and item 4 in Annex II of this Circular. - Radio transmitters, transceivers radio operate in 9 kHz - 400 GHz frequency band and with output power from 60 mW upwards that do not listed, or listed but not within the scope of applicable national standard correspondingly in Section 2 of Appendix I and item 4 of in Annex II of this Circular.
5	**Lithium batteries for handheld devices**			
5.1	Lithium batteries for laptops, mobile phones, tablets (**)	QCVN 101: 2016/BTTTT	8507.60.90	Lithium batteries used for cell phones. Lithium power bank which used for charging cell phone is exempted.
			8507.60.10	Lithium batteries used for laptops, tablets. Lithium power bank which used for charging these products is exempted.

Notes: Declaration of Conformity certification in Annex II with respect to some specific cases stipulated as follows:

(*) For the QCVN 63:2012/BTTTT: the requirements and characteristics related to DVB-T are exempted from mandatory Declaration of Conformity; QCVN 118:2018/BTTTT shall be applied instead of TCVN 7600:2010, which had been prescribed in QCVN 63:2012/BTTTT.

(**) For QCVN 101:2016/BTTTT: safety characteristics, which provided in Article 2.6 of this standard, is subject to mandatory declaration of conformity certification; transport requirement provided in Article 2.6.2.7 of this standard is exempted from mandatory Declaration of Conformity