AMENDMENTS TO SERVICE PUBLICATIONS

Abbreviations used

ADD Insert PAR Paragraph
COL Column REP Replace
LIR Read SUP Delete
P Page(s)

List of International Monitoring Stations (List VIII) Edition of 2022

(Amendment No. 1)

PART I

STATIONS IN THE TERRESTRIAL RADIOCOMMUNICATION SERVICES

QAT - Qatar

SUP Station: Doha (Sumaismah) (IMS)

P 1 ADD by alphabetical order

Station: Al Corniche

Name of the station	Postal address	Telephone, Telefax, Electronic-mail
Al Corniche	Communications Regulatory Authority (CRA) Al Nasr Tower-B Corniche Road P.O.Box 23404 Doha Qatar	PHONE: +974 44995374 TELEFAX: +974 44830630 EMAIL: msadeq@cra.gov.qa

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
25°18'48"N 051°31'09"E	Frequency measurements	20MHz - 8.5GHz	0400 - 1100 (UTC)	Sunday to Thursday. H24: on request. Measurement Accuracy: ± 1 Hz (absolute). All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network. All MMS can connect to any of the FMS & TDOA sites for Geolocation.

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Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
				Sunday to Thursday.
				H24: on request.
				Measurement Accuracy: ± 3 dB.
25°18'48"N 051°31'09"E	Field strength or power flux-density measurements	20MHz - 8.5GHz	0400 - 1100 (UTC)	All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network.
				All MMS can connect to any of the FMS & TDOA sites for Geolocation.
				Sunday to Thursday.
				H24: on request.
				DF Accuracy: 2 degrees RMS.
				Dual Polarization: 20MHz - 3GHz.
25°18'48"N 051°31'09"E	Direction-finding measurements	20MHz - 8.5GHz	0400 - 1100 (UTC)	Vertical Polarization: 3GHz - 8.5GHz.
				All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network.
				All MMS can connect to any of the FMS & TDOA sites for Geolocation.
				Sunday to Thursday.
				H24: on request.
25°18'48"N 051°31'09"E	Bandwidth measurements	20MHz - 8.5GHz	0400 - 1100 (UTC)	x dB and ß% methods, in accordance with Recommendation ITU-R SM.443-4. Instantaneous bandwidth for wideband signals (40 MHz), in accordance with Recommendation ITU-R SM.1794.
				All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network.
				All MMS can connect to any of the FMS & TDOA sites for Geolocation.

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
25°18'48"N 051°31'09"E	Automatic spectrum occupancy surveys	20MHz - 8.5GHz	0400 - 1100 (UTC)	Sunday to Thursday. H24: on request. Automatic measurements of spectrum occupancy in accordance with Recommendation ITU-R SM.1880 and ITU-R Spectrum Monitoring Handbook. All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network. All MMS can connect to any of the FMS & TDOA sites for Geolocation.

Station: AL KHOR

Name of the station	Postal address	Telephone, Telefax, Electronic-mail
Al Khor	Communications Regulatory Authority (CRA) Al Nasr Tower-B Corniche Road P.O.Box 23404 Doha Qatar	PHONE: +974 44995374 TELEFAX: +974 44830630 EMAIL: msadeq@cra.gov.qa

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
25°40'14"N 051°28'49"E	Frequency measurements	20MHz - 8.5GHz	0400 - 1100 (UTC)	Sunday to Thursday. H24: on request. Measurement Accuracy: ± 1 Hz (absolute). All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network. All MMS can connect to any of the FMS & TDOA sites for Geolocation.

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
				Sunday to Thursday.
				H24: on request.
	Field strongth or			Measurement Accuracy: ± 3 dB.
25°40'14"N 051°28'49"E	Field strength or power flux-density measurements	20MHz - 8.5GHz	0400 - 1100 (UTC)	All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network.
				All MMS can connect to any of the FMS & TDOA sites for Geolocation.
				Sunday to Thursday.
			0400 - 1100 (UTC)	H24: on request.
	25°40'14"N Direction-finding measurements	20MHz - 8.5GHz		DF Accuracy: 2 degrees RMS.
				Dual Polarization: 20MHz - 3GHz.
				Vertical Polarization: 3GHz - 8.5GHz.
				All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network.
				All MMS can connect to any of the FMS & TDOA sites for Geolocation.
				Sunday to Thursday.
				H24: on request.
25°40'14"N 051°28'49"E	Bandwidth measurements	20MHz - 8.5GHz	0400 - 1100 (UTC)	x dB and ß% methods, in accordance with Recommendation ITU-R SM.443-4. Instantaneous bandwidth for wideband signals (40 MHz), in accordance with Recommendation ITU-R SM.1794.
				All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network.
				All MMS can connect to any of the FMS & TDOA sites for Geolocation.

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
25°40'14"N 051°28'49"E	Automatic spectrum occupancy surveys	20MHz - 8.5GHz	0400 - 1100 (UTC)	Sunday to Thursday. H24: on request. Automatic measurements of spectrum occupancy in accordance with Recommendation ITU-R SM.1880 and ITU-R Spectrum Monitoring Handbook. All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network. All MMS can connect to any of the FMS & TDOA sites for Geolocation.

Station: AL WAKRAH

Name of the station	Postal address	Telephone, Telefax, Electronic-mail
Al Wakrah	Communications Regulatory Authority (CRA) Al Nasr Tower-B Corniche Road P.O.Box 23404 Doha Qatar	PHONE: +974 44995374 TELEFAX: +974 44830630 EMAIL: msadeq@cra.gov.qa

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
25°01'32"N 051°27'27"E	Frequency measurements	20MHz - 8.5GHz	0400 - 1100 (UTC)	Sunday to Thursday. H24: on request. Measurement Accuracy: ± 1 Hz (absolute). All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network. All MMS can connect to any of the FMS & TDOA sites for Geolocation.
25°01'32"N 051°27'27"E	Field strength or power flux- density measurements	20MHz - 8.5GHz	0400 - 1100 (UTC)	Sunday to Thursday. H24: on request. Measurement Accuracy: ± 3 dB. All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network. All MMS can connect to any of the FMS & TDOA sites for Geolocation.

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
25°01'32"N 051°27'27"E	Direction- finding measurements	20MHz - 8.5GHz	0400 - 1100 (UTC)	Sunday to Thursday. H24: on request. DF Accuracy: 2 degrees RMS. Dual Polarization: 20MHz - 3GHz. Vertical Polarization: 3GHz - 8.5GHz. All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network. All MMS can connect to any of the FMS & TDOA sites for Geolocation.
25°01'32"N 051°27'27"E	Bandwidth measurements	20MHz - 8.5GHz	0400 - 1100 (UTC)	Sunday to Thursday. H24: on request. x dB and ß% methods, in accordance with Recommendation ITU-R SM.443-4. Instantaneous bandwidth for wideband signals (40 MHz), in accordance with Recommendation ITU-R SM.1794. All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network. All MMS can connect to any of the FMS & TDOA sites for Geolocation.
25°01'32"N 051°27'27"E	Automatic spectrum occupancy surveys	20MHz - 8.5GHz	0400 - 1100 (UTC)	Sunday to Thursday. H24: on request. Automatic measurements of spectrum occupancy in accordance with Recommendation ITU-R SM.1880 and ITU-R Spectrum Monitoring Handbook. All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network. All MMS can connect to any of the FMS & TDOA sites for Geolocation.

Station: MMS 1

Name of the station	Postal address	Telephone, Telefax, Electronic-mail
MMS 1	Communications Regulatory Authority (CRA) Al Nasr Tower-B Corniche Road P.O.Box 23404 Doha Qatar	PHONE: +974 44995374 TELEFAX: +974 44830630 EMAIL: msadeq@cra.gov.qa

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
	Frequency measurements	9kHz - 8GHz	0400 - 1100 (UTC)	Sunday to Thursday. H24: on request. Measurement Accuracy: ± 1 Hz (absolute). All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network. All MMS can connect to any of the FMS & TDOA sites for Geolocation.
	Field strength or power flux-density measurements	9kHz - 8GHz	0400 - 1100 (UTC)	Sunday to Thursday. H24: on request. Measurement Accuracy: ± 3 dB. All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network. All MMS can connect to any of the FMS & TDOA sites for Geolocation.

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
	Direction-finding measurements	9kHz - 8GHz	0400 - 1100 (UTC)	Sunday to Thursday.
				H24: on request.
				DF Accuracy: 2 degrees RMS.
				Dual Polarization: 20MHz - 3GHz.
				Vertical Polarization: 3GHz - 8.5GHz.
				All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network.
				All MMS can connect to any of the FMS & TDOA sites for Geolocation.
	Bandwidth measurements	9kHz - 8GHz	0400 - 1100 (UTC)	Sunday to Thursday.
				H24: on request.
				x dB and ß% methods, in accordance with Recommendation ITU-R SM.443-4. Instantaneous bandwidth for wideband signals (40 MHz), in accordance with Recommendation ITU-R SM.1794.
				All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network.
				All MMS can connect to any of the FMS & TDOA sites for Geolocation.
	Automatic spectrum occupancy surveys	9kHz - 8GHz	0400 - 1100 (UTC)	Sunday to Thursday.
				H24: on request.
				Automatic measurements of spectrum occupancy in accordance with Recommendation ITU-R SM.1880 and ITU-R Spectrum Monitoring Handbook.
				All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network.
				All MMS can connect to any of the FMS & TDOA sites for Geolocation.

Station: MMS 2

Name of the station	Postal address	Telephone, Telefax, Electronic-mail
MMS 2	Communications Regulatory Authority (CRA) Al Nasr Tower-B Corniche Road P.O.Box 23404 Doha Qatar	PHONE: +974 44995374 TELEFAX: +974 44830630 EMAIL: msadeq@cra.gov.qa

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
	Frequency measurements	20MHz - 8.5GHz; 8.5 - 40GHz	0400 - 1100 (UTC)	Sunday to Thursday. H24: on request. Measurement Accuracy: ± 1 Hz (absolute). All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network. All MMS can connect to any of the FMS & TDOA sites for Geolocation.
	Field strength or power flux-density measurements	20MHz - 8.5GHz; 8.5 - 40GHz	0400 - 1100 (UTC)	Sunday to Thursday. H24: on request. Measurement Accuracy: ± 3 dB. All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network. All MMS can connect to any of the FMS & TDOA sites for Geolocation.

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
	Direction-finding measurements	20MHz - 8.5GHz	0400 - 1100 (UTC)	Sunday to Thursday.
				H24: on request.
				DF Accuracy: 2 degrees RMS.
				Dual Polarization: 20MHz - 3GHz.
				Vertical Polarization: 3GHz - 8.5GHz.
				All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network.
				All MMS can connect to any of the FMS & TDOA sites for Geolocation.
	Bandwidth measurements	20MHz - 8.5GHz; 8.5 - 40GHz	0400 - 1100 (UTC)	Sunday to Thursday.
				H24: on request.
				x dB and ß% methods, in accordance with Recommendation ITU-R SM.443-4. Instantaneous bandwidth for wideband signals (40 MHz), in accordance with Recommendation ITU-R SM.1794.
				All fixed monitoring stations are remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network.
				All MMS can connect to any of the FMS & TDOA sites for Geolocation.
	Automatic spectrum occupancy surveys	20MHz - 8.5GHz	0400 - 1100 (UTC)	Sunday to Thursday. H24: on request.
				Automatic measurements of spectrum occupancy in accordance with Recommendation ITU-R SM.1880 and ITU-R Spectrum Monitoring Handbook. All fixed monitoring stations are
				remotely controlled at the National Control Center (CRA building) via the highly secured MPLS/IP network. All MMS can connect to any of the