

Annex 1: Measurement diagrams to  
**TEST REPORT**  
 No.: 17-1-0180901T19

According to:

**FCC Regulations**  
 Part 15.107  
 Part 15.109

**ISED Regulations**  
 ICES-003, Issue 6  
 RSS-Gen, Issue 4

for







Datalogic S.r.l.

**FALCON X4**  
 Type: E00ANM4TN0HN0A4

FCC ID: U4GFX4WB

IC: 3862E-FX4WB

PMN: FALCON X4 | HVIN: FX4 WB HH | FVIN: Not Applicable

Laboratory Accreditation and Listings			
 <p><b>DAkks</b>            Deutsche            Akkreditierungsstelle            D-PL-12047-01-01</p>	 <p>FEDERAL COMMUNICATIONS COMMISSION  <b>FC</b>            USA            MRA US-EU 0003</p>	 <p>Industry Canada            Reg. No.: 3462D-2            Reg. No.: 3462D-2            Reg. No.: 3462D-3</p>	 <p>Voluntary Controls for            Electromagnetic Emissions            Reg. No.:            R-2666 C-2914,            T-1967, G-301</p>
 <p><b>WiFi</b>            ALLIANCE            AUTHORIZED            RF LABORATORY</p>	 <p><b>ctia</b> Authorized<sup>TM</sup>            Test Lab            Lab Code: 20011130-00</p>		
accredited according to DIN EN ISO/IEC 17025			
<p align="center"><b>CETECOM GmbH</b>            Laboratory Radio Communications &amp; Electromagnetic Compatibility            Im Teelbruch 116 • 45219 Essen • Germany            Registered in Essen, Germany, Reg. No.: HRB Essen 8984            Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964            E-mail: info@cetecom.com • Internet: www.cetecom.com</p>			

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# 1. Radiated Field Strength Measurements

## 1.1. Conducted Emissions on AC-Power lines – 150kHz to 30 MHz

### Diagram No.: 1.01 Mode 2

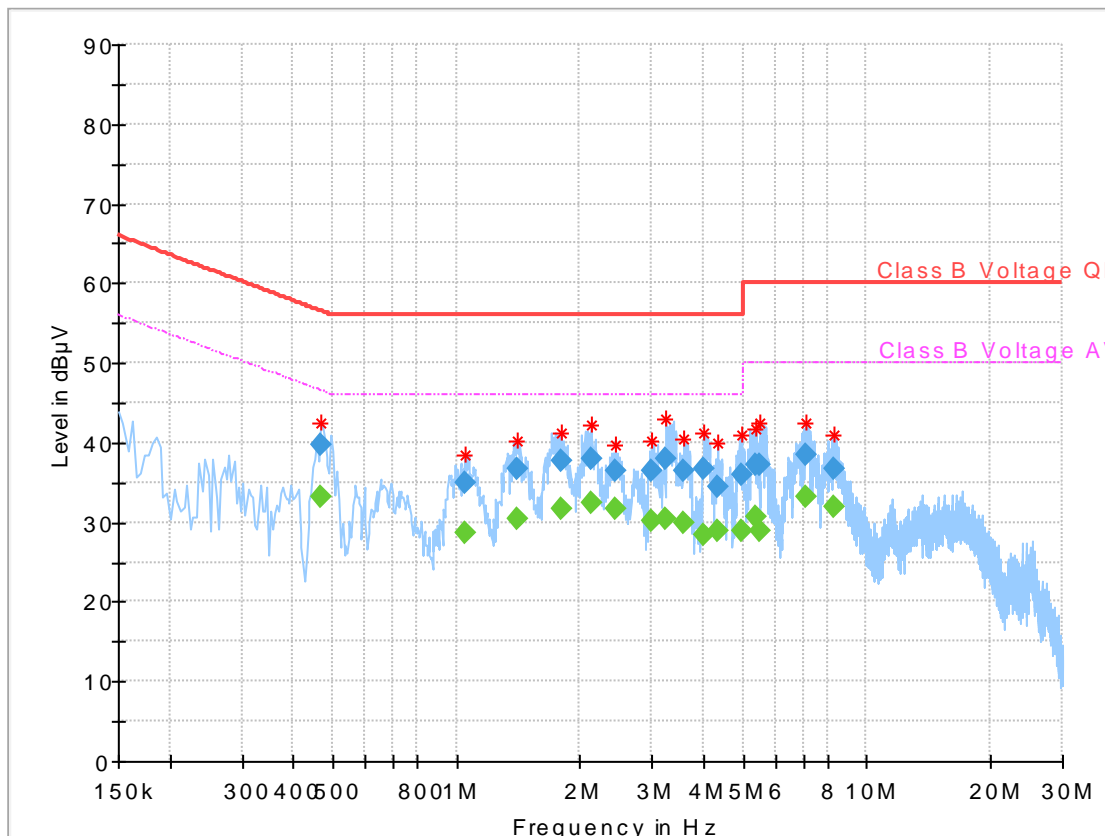
#### Common Information

Test Description:	Conducted Voltage Measurement Class B
Test Site & Location:	Conducted Emission, CETECOM GmbH Essen
Test Software:	R&S EMC32 v9.15
Test Specification:	FCC 15.109 Class B   RSS-Gen. Issue 4   ICES-003 Issue 6 Class B
Operating Mode:	Mode 2
Measured on line:	N/L1
Diagram details:	Shows the peak values as a sum of measured ports in maxhold mode
Environmental Conditions:	Humidity: 42%rH; Temperature: 20°C
Operator:	TFra
Comments:	

#### EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	FALCON X4
EuT Type:	E00ANM4TN0HN0A4
P/N:	945550001
S/N:	Z17P02014
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.01.46.20180109
Input:	empty Internal Battery charging
Battery Type:	BT-26   Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

Full Spectrum



**Final Result**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	CAverage (dB $\mu$ V)	Limit (dB $\mu$ V)
0.466406	---	33.28	46.58
0.466406	39.82	---	56.58
1.044531	---	28.54	46.00
1.044531	34.86	---	56.00
1.403906	36.68	---	56.00
1.403906	---	30.49	46.00
1.802344	---	31.75	46.00
1.802344	37.64	---	56.00
2.134375	---	32.37	46.00
2.134375	38.04	---	56.00
2.435156	---	31.64	46.00
2.435156	36.36	---	56.00
3.005469	---	30.08	46.00
3.005469	36.49	---	56.00
3.251563	---	30.43	46.00
3.251563	38.04	---	56.00
3.583594	---	30.03	46.00
3.583594	36.44	---	56.00
4.021094	---	28.52	46.00
4.021094	36.68	---	56.00
4.325781	34.54	---	56.00
4.325781	---	28.84	46.00
4.939063	36.00	---	56.00
4.939063	---	28.82	46.00
5.337500	37.33	---	60.00
5.337500	---	30.62	50.00
5.517188	37.09	---	60.00
5.517188	---	28.80	50.00
7.079688	38.49	---	60.00
7.079688	---	33.20	50.00
8.298438	---	31.81	50.00
8.298438	36.71	---	60.00

## 1.2. Radiated Field Strength Emissions – 30 MHz to 1 GHz

### Diagram No. 3.01 Mode 1

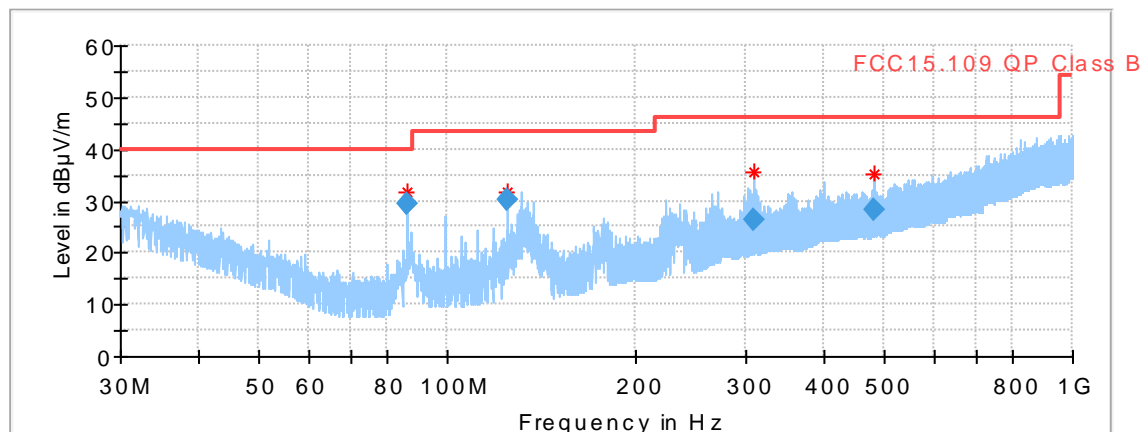
#### Common Information

Test Description:	Radiated Filed Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 15.109, class B / RSS-Gen., Issue 4
Operating Mode:	Mode Worst case: With Host PC + Test with full batteries, USB connection, barcode reading 1scan/s
Equipment Class:	Class B
Environmental Conditions:	Humidity: 48%rH; Temperature: 20°C
Operator:	Hel

#### EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	FALCON X4
EuT Type:	E00ANM4TN0HN0A4
P/N:	945550001
S/N:	Z17P02014
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.01.46.20180109
Input:	empty Internal Battery charging
Battery Type:	BT-26   Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

Full Spectrum



#### Final Result

Frequency (MHz)	Quasi Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
86.402000	29.61	40.00	10.39	1000.0	120.000	105.0	V	95.0	0.0	8.0
124.794000	30.37	43.50	13.13	1000.0	120.000	151.0	H	305.0	0.0	8.2
309.238000	26.34	46.00	19.66	1000.0	120.000	113.0	H	314.0	0.0	15.6
480.106000	28.09	46.00	17.91	1000.0	120.000	167.0	H	162.0	0.0	19.2

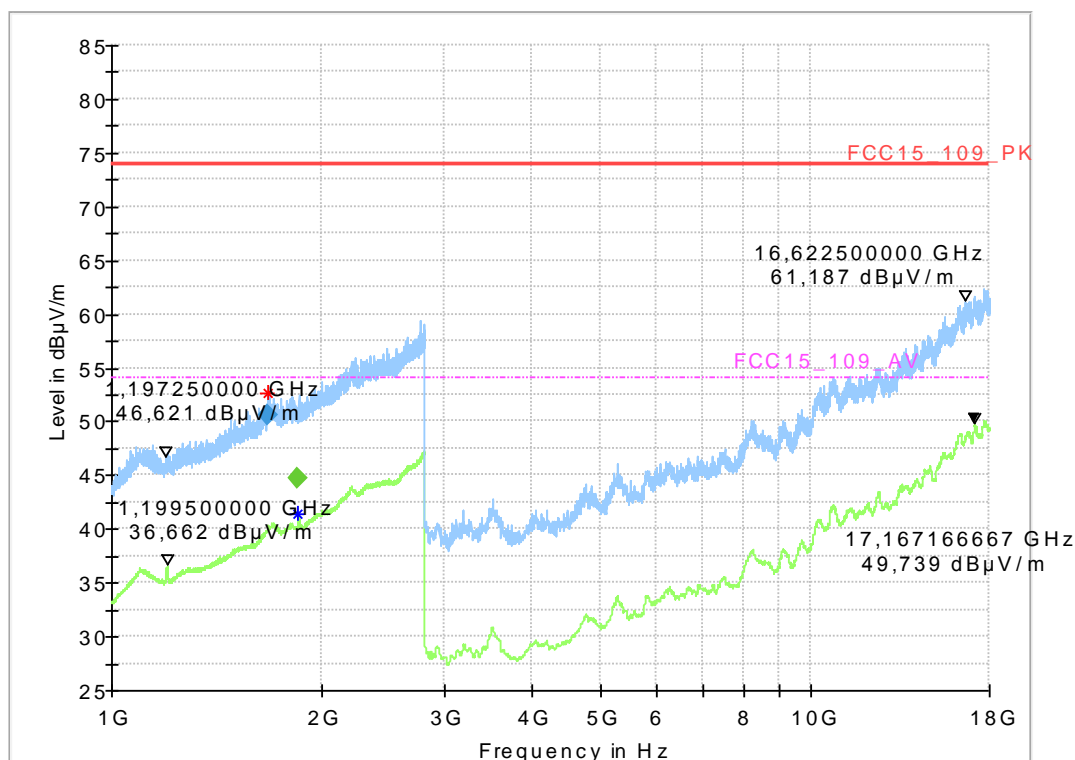
### 1.3. Radiated Field Strength Emissions – 1 GHz to 18 GHz Diagram No. 4.01 Mode 1

Test Description:	Radiated Filed Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 15.109, class B / RSS-Gen., Issue 4
Operating Mode:	Mode Worst case: With Host PC + Test with full batteries, USB connection, barcode reading 1scan/s
Equipment Class:	Class B
Environmental Conditions:	Humidity: 48%rH; Temperature: 20°C
Operator:	Klv

#### EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	FALCON X4
EuT Type:	E00ANM4TN0HN0A4
P/N:	945550001
S/N:	Z17P02014
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.01.46.20180109
Input:	fully charged Internal Battery
Battery Type:	BT-26   Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

Full Spectrum



#### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Bandwid th (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Elevatio n (deg)	Corr . (dB)
1675.082000	50.55	---	74.00	23.45	1000.000	155.0	V	237.0	90.0	32.2
1850.185000	---	44.74	54.00	9.26	1000.000	155.0	V	117.0	90.0	32.3

### 1.4. Radiated Field Strength Emissions – 18 GHz to 40 GHz Diagram No.: 4.01a Mode 1

#### Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC15.109, Class B   RSS-Gen. Issue 4   ICES-003 Issue 6 Class B
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX mode continuous
Operator Name:	TFR
Operating conditions:	Mode Worst case: With Host PC + Test with full batteries, USB connection,

#### EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	FALCON X4
EuT Type:	E00ANM4TN0HN0A4
P/N:	945550001
S/N:	Z17P02014
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.01.46.20180109
Input:	fully charged Internal Battery
Battery Type:	BT-26   Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

EMI Scan\_18\_40GHz\_Pre

