

Annex 1: Measurement diagrams 21-1-0171401T03a-C01-A1

Number of pages:	6	Date of Report:	2022-Dec-22
Testing company:	CETECOM GmbH Im Teelbruch 116 45219 Essen Germany Tel. + 49 (0) 20 54 / 95 19-0 Fax: + 49 (0) 20 54 / 95 19-150	Applicant:	Siemens AG
Product: Model:	Vibration and temperature sensor SITRANS MS200		
FCC ID:	LYH-MS200	IC:	267AA-MS200
Testing has been carried out in accordance with:	FCC Regulations Title 47 CFR, Chapter I, Subchapter A, Part 15 Subpart B Unintentional Radiators § 15.109 Radiated emission limits ISED-Regulations Radio Standards Specification RSS-Gen, Issue 5 General Requirements for Compliance of Radio Apparatus ICES-003, Issue 7 Information Technology Equipment (including Digital Apparatus)		

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1 Measurement diagrams

3.01_laying

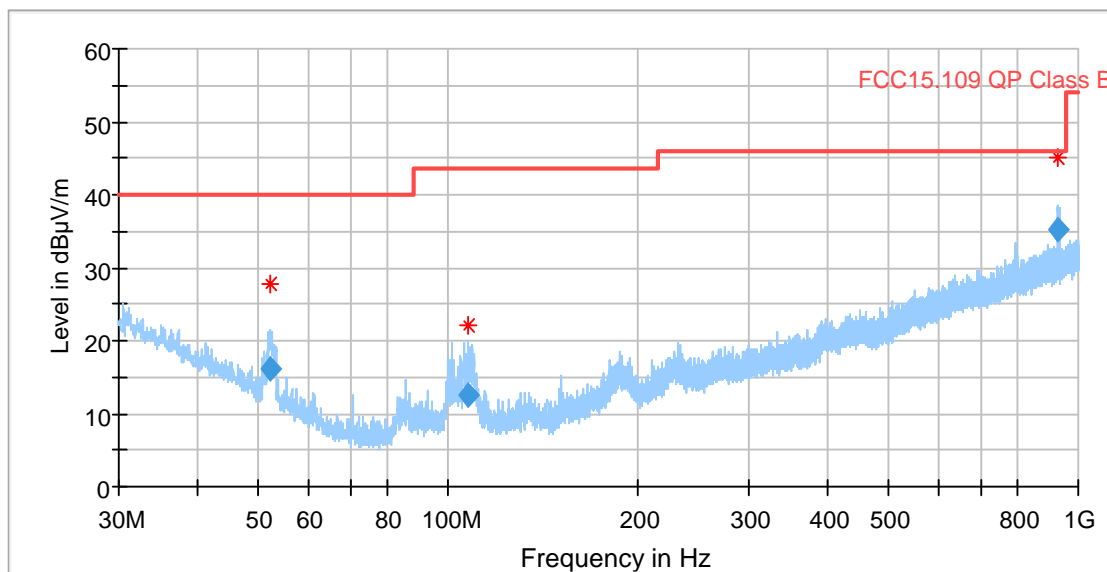
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.109 Unintentional Radiator
Antenna polarisation:	horizontal/vertical
Operating Mode:	Sensor active mode
Environmental Conditions::	Humidity : 40% rH; Temperature: 20 °C
Operator:	HLa

EUT Information

PMT number: 21-1-01714S14_C01

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
52.285000	16.22	40.00	23.78	1000.0	120.000	133.0	V	228.0	12.1
107.943000	12.45	43.50	31.05	1000.0	120.000	140.0	V	320.0	8.2
926.129000	35.10	46.00	10.90	1000.0	120.000	159.0	H	27.0	27.0

3.02_standing

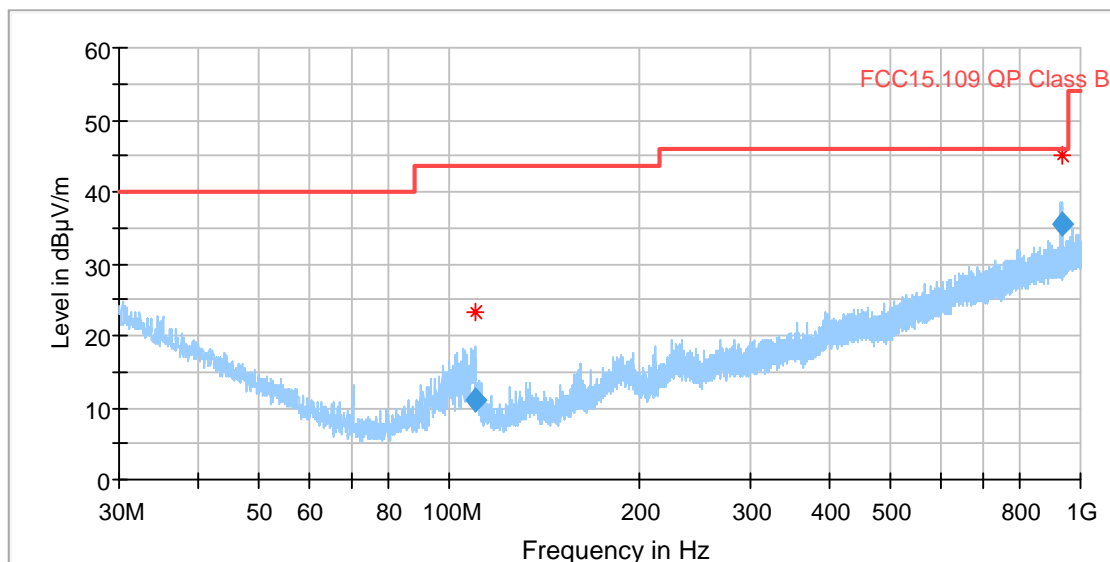
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.109 Unintentional Radiator
Antenna polarisation:	horizontal/vertical
Operating Mode:	Sensor active mode
Environmental Conditions::	Humidity : 40% rH; Temperature: 20 °C
Operator:	HLa

EUT Information

PMT number: 21-1-01714S14_C01

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
110.043000	10.95	43.50	32.55	1000.0	120.000	145.0	V	0.0	8.2
934.563000	35.45	46.00	10.55	1000.0	120.000	153.0	V	261.0	26.9

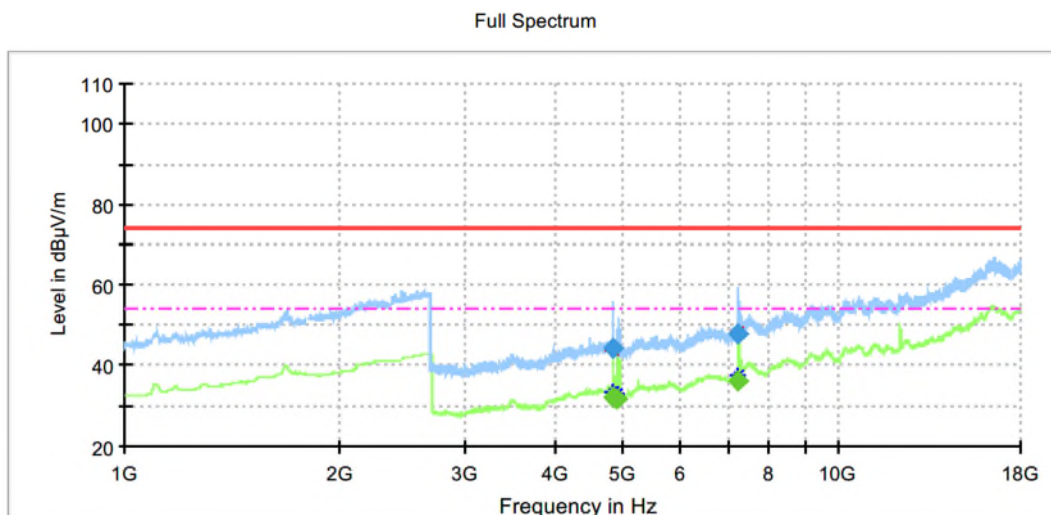
4.01

Common Information

Test Description:	Radiated Filed Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 15.109, class B / RSS-Gen., Issue 4
Operating Mode:	Sensor active mode
Equipment Class:	Class B
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
Operator:	HLa
EUT Setup:	1

EUT Information

PMT number: 21-1-01714S17_C01



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
4844.100000	44.25	74.00	29.75	100.0	1000.000	H	136.0	0.0	3
4844.820000	---	54.00	22.02	100.0	1000.000	H	328.0	0.0	3
4880.300000	---	54.00	22.46	100.0	1000.000	V	274.0	0.0	3
7255.020000	47.56	74.00	26.44	100.0	1000.000	V	6.0	0.0	9
7255.060000	---	54.00	17.88	100.0	1000.000	V	102.0	0.0	9

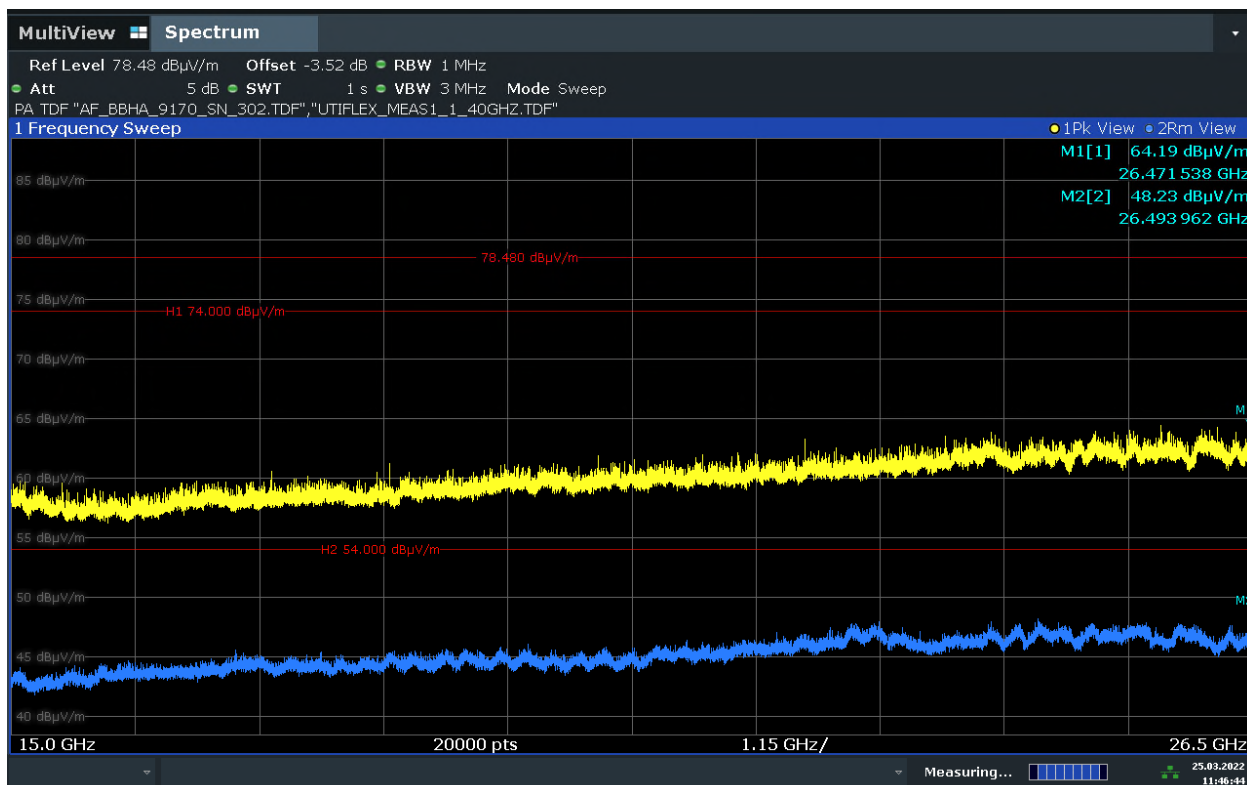
4.02

Common Information

Test Description:	Radiated Filed Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 15.109, class B / RSS-Gen., Issue 4
Operating Mode:	Sensor active mode
Equipment Class:	Class B
Environmental Conditions::	Humidity : 40% rH; Temperature: 20 °C
Operator:	HLa
EUT Setup:	1

EUT Information

PMT number: 21-1-01714S17_C01



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