

Annex 1: Measurement diagrams to Test Report 20-1-0080401T02a-A1



Number of pages:	7	Date of Report:	2020-Sep-09
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:	STRAFFR GMBH
Test Object / Tested Device(s):	Smart resistance band STRAFFR Band ST01X		
Listing FCC ID:	2AWRM-ST01X	Contains IC ID:	23763-RSL10SIP
Testing has been carried out in accordance with:	FCC Regulations: Title 47 CFR, Chapter I FCC Regulations, Subchapter A Subpart B: §15.107, §15.109 (Class B limits) ISED Regulations: ICES-003, Issue 6 (2016+Update 2019)		

1 Measurement diagrams

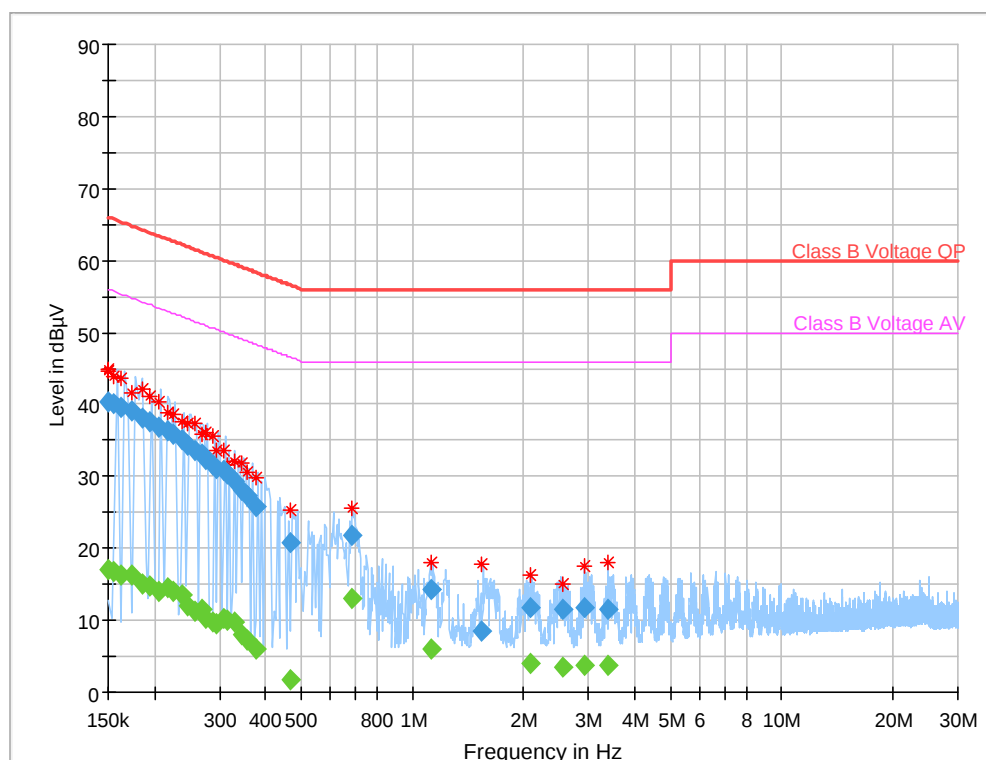
Common Information

Test Description:	Conducted Voltage Measurement Class B
Test Site Location:	Conducted Emission, CETECOM GmbH Essen
Test Software:	R&S EMC32 v9.15
Test Standard:	FCC 15.107, FCC 15.207
Operating Mode:	Normal mode, BT off
Measured on line:	N/L1
Diagram details:	Shows the peak values as a sum of measured ports in maxhold mode
Environmental Conditions:	Humidity: 40% rH; Temperature: 21 °C
Operator:	HLa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-00804S02_C01
Manufacturer:	STRAFFR GmbH
Product:	smart resistance band
Model:	STRAFFR Band ST01X
HW version:	8.3
SW version:	9.0
Serial number:	N/A
Connected Interfaces:	USB C cable + Charger
Power Supply:	120 V AC, 60 Hz

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.150000	40.28	---	66.00	25.72	1000.0	9.000	N	GND	0.1
0.150000	---	16.99	56.00	39.01	1000.0	9.000	N	GND	0.1
0.154844	40.01	---	65.74	25.73	1000.0	9.000	N	GND	0.1
0.154844	---	16.85	55.74	38.89	1000.0	9.000	N	GND	0.1
0.162656	39.63	---	65.33	25.70	1000.0	9.000	N	GND	0.1
0.162656	---	16.35	55.33	38.98	1000.0	9.000	N	GND	0.1
0.174375	---	16.28	54.75	38.47	1000.0	9.000	L1	GND	0.1
0.174375	39.17	---	64.75	25.58	1000.0	9.000	L1	GND	0.1
0.186094	38.08	---	64.21	26.13	1000.0	9.000	N	GND	0.1
0.186094	---	15.13	54.21	39.08	1000.0	9.000	N	GND	0.1
0.193906	---	14.71	53.87	39.16	1000.0	9.000	N	GND	0.1
0.193906	37.57	---	63.87	26.30	1000.0	9.000	N	GND	0.1
0.205625	36.77	---	63.38	26.61	1000.0	9.000	N	GND	0.1
0.205625	---	14.13	53.38	39.25	1000.0	9.000	N	GND	0.1
0.217344	36.32	---	62.92	26.60	1000.0	9.000	L1	GND	0.1
0.217344	---	14.50	52.92	38.42	1000.0	9.000	L1	GND	0.1
0.225156	---	14.14	52.63	38.49	1000.0	9.000	L1	GND	0.1
0.225156	35.77	---	62.63	26.86	1000.0	9.000	L1	GND	0.1
0.236875	---	13.51	52.21	38.70	1000.0	9.000	L1	GND	0.1
0.236875	34.98	---	62.21	27.23	1000.0	9.000	L1	GND	0.1
0.244688	---	12.03	51.94	39.91	1000.0	9.000	N	GND	0.1
0.244688	34.29	---	61.94	27.65	1000.0	9.000	N	GND	0.1
0.256406	33.48	---	61.55	28.07	1000.0	9.000	N	GND	0.1
0.256406	---	11.36	51.55	40.19	1000.0	9.000	N	GND	0.1
0.268125	---	11.61	51.18	39.57	1000.0	9.000	L1	GND	0.2
0.268125	33.10	---	61.18	28.08	1000.0	9.000	L1	GND	0.2
0.275938	32.38	---	60.94	28.56	1000.0	9.000	N	GND	0.1
0.275938	---	10.35	50.94	40.59	1000.0	9.000	N	GND	0.1
0.287656	---	9.79	50.59	40.80	1000.0	9.000	N	GND	0.1
0.287656	31.62	---	60.59	28.97	1000.0	9.000	N	GND	0.1
0.295469	31.19	---	60.37	29.18	1000.0	9.000	N	GND	0.1
0.295469	---	9.52	50.37	40.85	1000.0	9.000	N	GND	0.1
0.307188	30.76	---	60.05	29.29	1000.0	9.000	L1	GND	0.1
0.307188	---	10.29	50.05	39.76	1000.0	9.000	L1	GND	0.1
0.315000	---	10.13	49.84	39.71	1000.0	9.000	L1	GND	0.1
0.315000	30.32	---	59.84	29.52	1000.0	9.000	L1	GND	0.1
0.330625	---	9.85	49.44	39.59	1000.0	9.000	L1	GND	0.1
0.330625	29.27	---	59.44	30.17	1000.0	9.000	L1	GND	0.1
0.346250	---	7.94	49.05	41.11	1000.0	9.000	N	GND	0.1
0.346250	28.13	---	59.05	30.92	1000.0	9.000	N	GND	0.1
0.357969	---	7.34	48.78	41.44	1000.0	9.000	N	GND	0.1
0.357969	27.25	---	58.78	31.53	1000.0	9.000	N	GND	0.1
0.377500	---	6.01	48.33	42.32	1000.0	9.000	N	GND	0.1
0.377500	25.76	---	58.33	32.57	1000.0	9.000	N	GND	0.1
0.467344	---	1.85	46.56	44.71	1000.0	9.000	N	GND	0.1
0.467344	20.92	---	56.56	35.64	1000.0	9.000	N	GND	0.1
0.687656	---	13.00	46.00	33.00	1000.0	9.000	L1	GND	0.3
0.687656	21.93	---	56.00	34.07	1000.0	9.000	L1	GND	0.3
1.125781	---	6.00	46.00	40.00	1000.0	9.000	L1	GND	0.3
1.125781	14.23	---	56.00	41.77	1000.0	9.000	L1	GND	0.3
1.539844	8.52	---	56.00	47.48	1000.0	9.000	N	GND	0.3
1.539844	---	-0.62	46.00	46.62	1000.0	9.000	N	GND	0.3
2.088438	---	3.98	46.00	42.02	1000.0	9.000	L1	GND	0.3
2.088438	11.89	---	56.00	44.11	1000.0	9.000	L1	GND	0.3
2.558281	11.46	---	56.00	44.54	1000.0	9.000	L1	GND	0.2
2.558281	---	3.62	46.00	42.38	1000.0	9.000	L1	GND	0.2
2.930313	---	3.74	46.00	42.26	1000.0	9.000	L1	GND	0.3
2.930313	11.73	---	56.00	44.27	1000.0	9.000	L1	GND	0.3
3.380156	---	3.67	46.00	42.33	1000.0	9.000	L1	GND	0.4
3.380156	11.57	---	56.00	44.43	1000.0	9.000	L1	GND	0.4

3.01

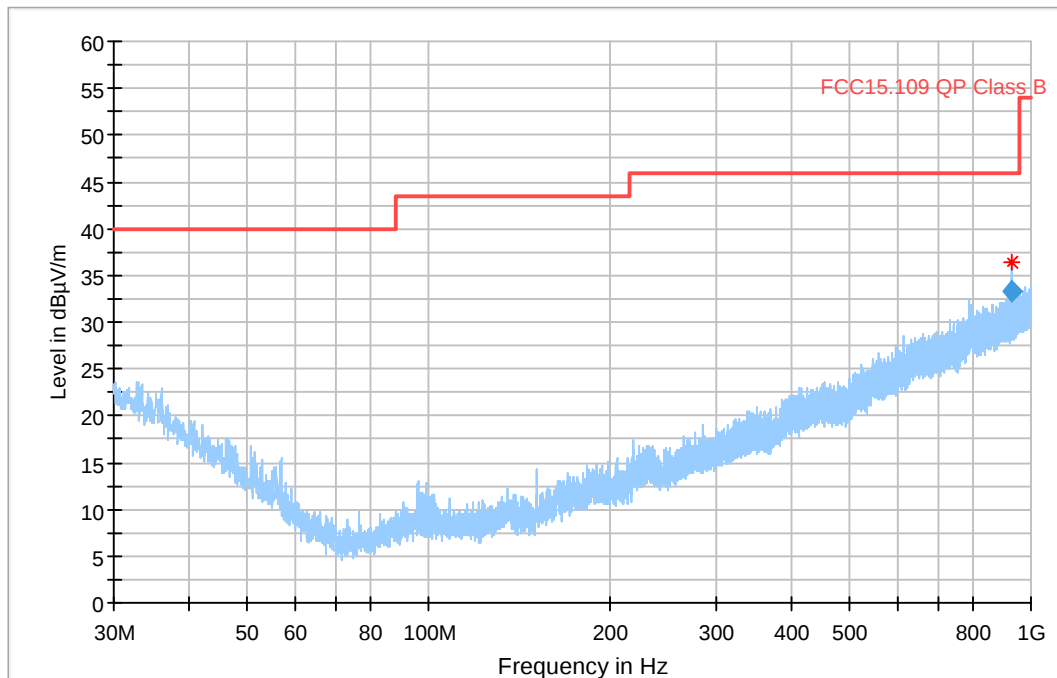
Common Information

Test Description:	Electric Field Strength Measurement
Test Spec.:	FCC15.109/ ICES-003, Issue 6
Antenna:	receiving antenna is directed to all sides
Operating Mode:	OP. mode 1, EUT standing
Environmental Conditions.:	Humidity : 40% rH; Temperature: 20 °C
Operator:	HLA
Verdict:	Passed

EUT Information

PMT number:	20-1-00804S02_C01
Manufacturer:	STRAFFR GmbH
Product:	smart resistance band
Model:	STRAFFR Band ST01X
HW version:	8.3
SW version:	9.0
Serial number:	N/A
Connected Interfaces:	USB C cable + Charger
Power Supply:	120 V AC, 60 Hz

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)
928.452000	33.28	46.00	12.72	1000.0	120.000	273.0	H	92.0	27.0

3.02

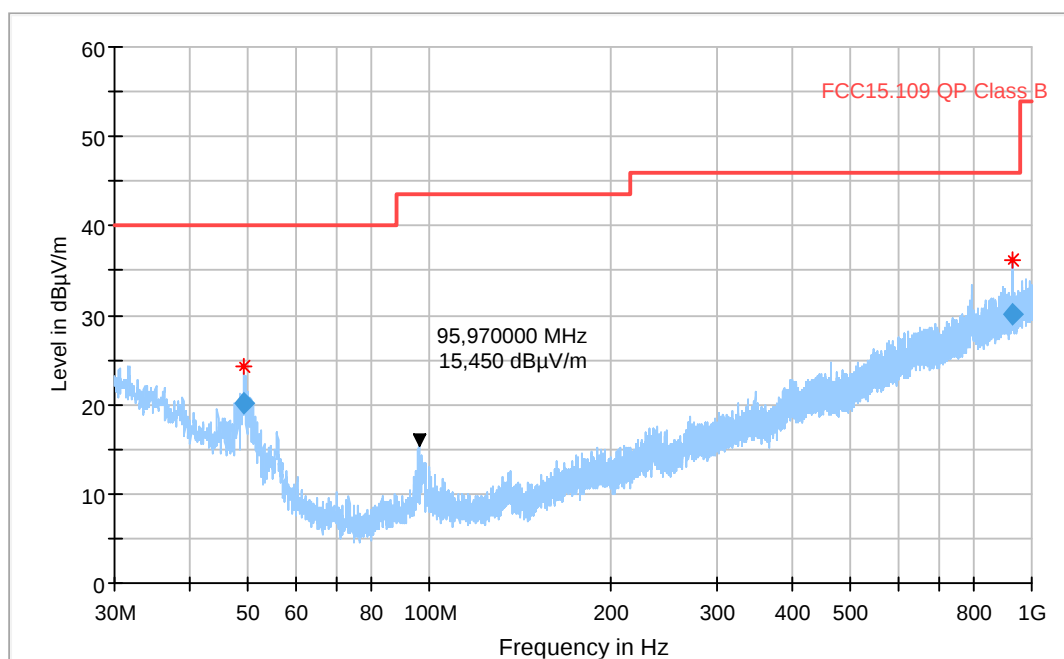
Common Information

Test Description:	Electric Field Strength Measurement
Test Spec.:	FCC15.109/ ICES-003, Issue 6
Antenna:	receiving antenna is directed to all sides
Operating Mode:	OP. mode 1, EUT laying
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
Operator:	HLA
Verdict:	Passed

EUT Information

PMT number:	20-1-00804S02_C01
Manufacturer:	STRAFFR GmbH
Product:	smart resistance band
Model:	STRAFFR Band ST01X
HW version:	8.3
SW version:	9.0
Serial number:	N/A
Connected Interfaces:	USB C cable + Charger
Power Supply:	120 V AC, 60 Hz

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.164000	20.14	40.00	19.86	1000.0	120.000	111.0	V	144.0	13.2
927.166000	30.04	46.00	15.96	1000.0	120.000	310.0	H	159.0	27.0

4.01

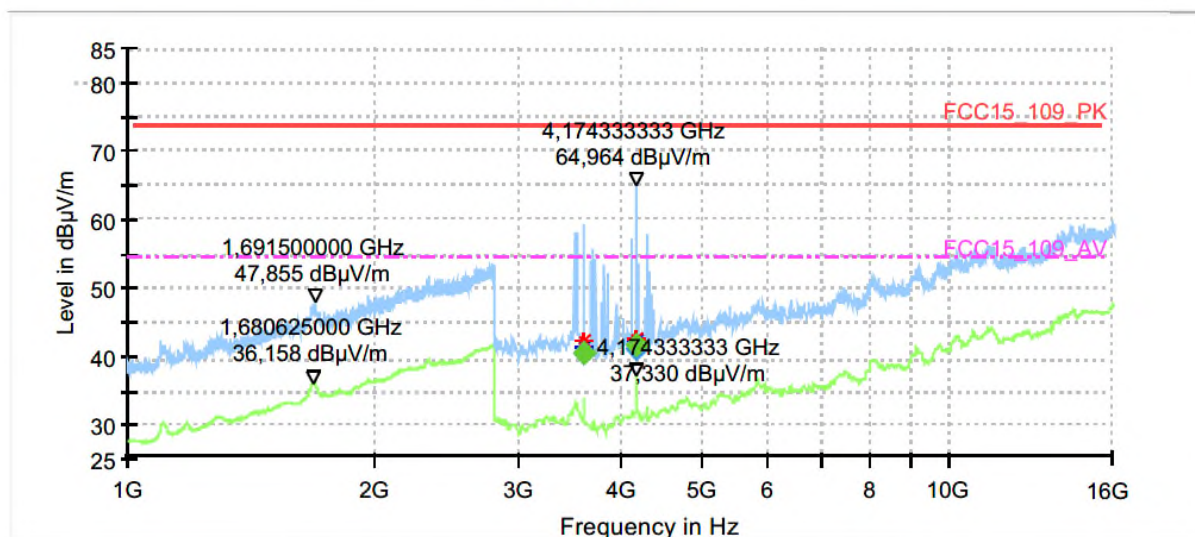
Common Information

Test Description:	Radiated Field Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 15.109, class B / ICES-003, Issue 6
Operating Mode:	op mode 1
Equipment Class:	Class B
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
Operator:	HLA
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-00804S02_C01
Manufacturer:	STRAFFR GmbH
Product:	smart resistance band
Model:	STRAFFR Band ST01X
HW version:	8.3
SW version:	9.0
Serial number:	N/A
Connected Interfaces:	USB C cable + Charger
Power Supply:	120 V AC, 60 Hz

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
3589.848000	---	40.62	54.00	13.38	100.0	1000.000	155.0	H	41.0	90.0
3593.831334	40.48	---	74.00	33.52	100.0	1000.000	155.0	H	44.0	90.0
4175.632666	---	41.86	54.00	12.14	100.0	1000.000	155.0	H	47.0	90.0
4177.865333	41.07	---	74.00	32.93	100.0	1000.000	155.0	H	69.0	90.0

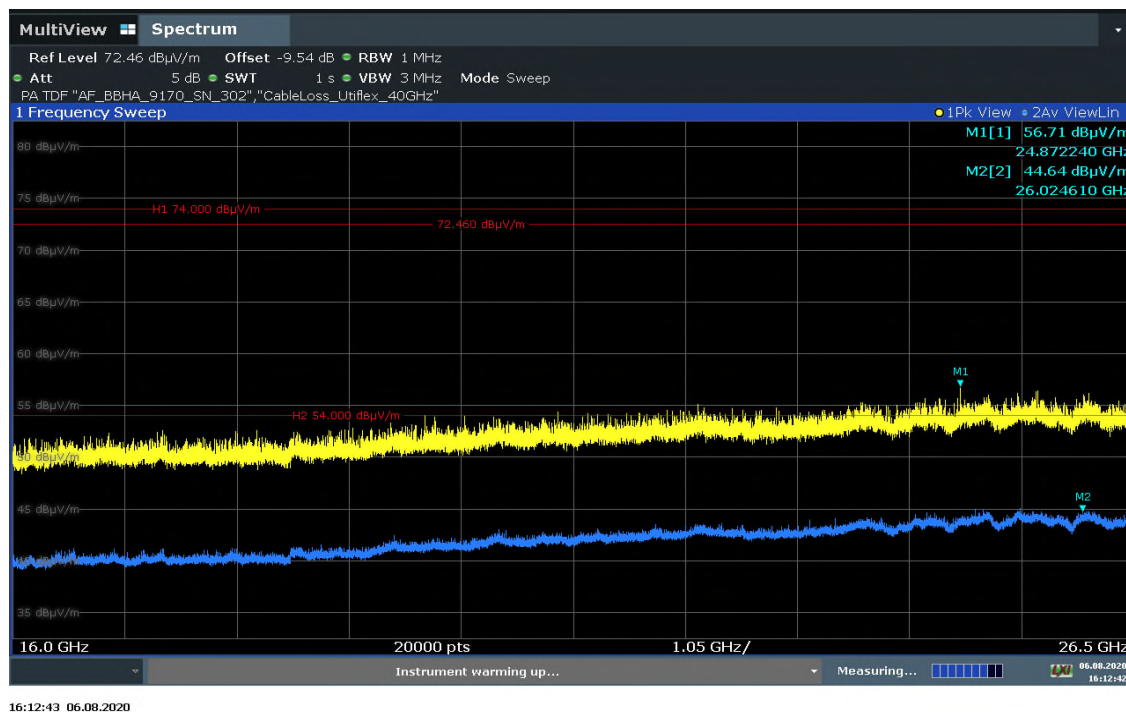
4.02

Common Information

Test Description:	Radiated Field Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 15.109, class B / ICES-003, Issue 6
Operating Mode:	op mode 1
Equipment Class:	Class B
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
Operator:	HLA
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-00804S02_C01
Manufacturer:	STRAFFR GmbH
Product:	smart resistance band
Model:	STRAFFR Band ST01X
HW version:	8.3
SW version:	9.0
Serial number:	N/A
Connected Interfaces:	USB C cable + Charger
Power Supply:	120 V AC, 60 Hz



End Of Annex 1