

Annex 1: Measurement diagrams 21-1-0132201T10a

Number of pages:	6	Date of Report:	2022-Feb-21
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:	SOMMER Antriebs- und Funktechnik GmbH
Test Object / Tested Device(s):	garage door opener 2110 pro+		
Contains FCC ID:	T8C206	Contains IC:	6496A-206
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) Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		



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1 Measurement diagrams

1.01

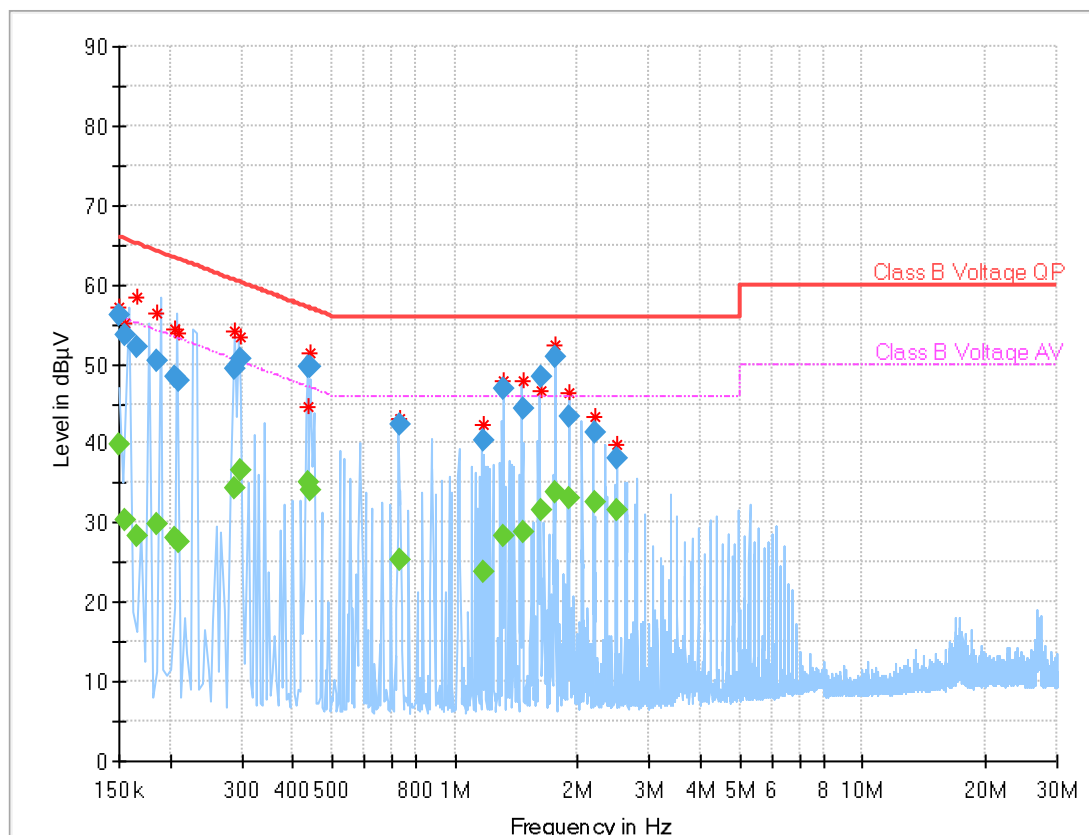
Common Information

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:	Receive Mode
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: 21°C
Operator:	Mar
Verdict:	Passed

EUT Information

PMT number:	21-1-01322S13_C01
Manufacturer:	SOMMER Antriebs- und Funktechnik GmbH
Product:	garage door opener
Model:	2110 pro+

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	---	39.88	56.00	16.12	1000.0	9.000	L1	GND	0.1
0.150000	56.10	---	66.00	9.90	1000.0	9.000	L1	GND	0.1
0.154844	53.70	---	65.74	12.04	1000.0	9.000	N	GND	0.1
0.154844	---	30.26	55.74	25.48	1000.0	9.000	N	GND	0.1
0.166563	52.13	---	65.13	13.00	1000.0	9.000	L1	GND	0.1
0.166563	---	28.36	55.13	26.77	1000.0	9.000	L1	GND	0.1
0.186094	50.39	---	64.21	13.82	1000.0	9.000	N	GND	0.1
0.186094	---	29.89	44.21	34.32	1000.0	9.000	N	GND	0.1
0.205625	---	28.06	43.38	35.32	1000.0	9.000	N	GND	0.1
0.205625	48.30	---	63.38	15.08	1000.0	9.000	N	GND	0.1
0.209531	---	27.66	43.22	35.56	1000.0	9.000	N	GND	0.1
0.209531	47.89	---	63.22	15.33	1000.0	9.000	N	GND	0.1
0.289219	---	34.42	50.55	16.13	1000.0	9.000	N	GND	0.1
0.289219	49.31	---	60.55	11.24	1000.0	9.000	N	GND	0.1
0.297031	50.62	---	60.33	9.71	1000.0	9.000	N	GND	0.1
0.297031	---	36.68	50.33	13.65	1000.0	9.000	N	GND	0.1
0.438750	---	35.13	47.09	11.96	1000.0	9.000	L1	GND	0.1
0.438750	49.53	---	57.09	7.56	1000.0	9.000	L1	GND	0.1
0.442656	---	34.13	47.01	12.88	1000.0	9.000	N	GND	0.1
0.442656	49.71	---	57.01	7.30	1000.0	9.000	N	GND	0.1
0.735625	42.32	---	56.00	13.68	1000.0	9.000	N	GND	0.1
0.735625	---	25.34	46.00	20.66	1000.0	9.000	N	GND	0.1
1.178125	40.34	---	56.00	15.66	1000.0	9.000	N	GND	0.3
1.178125	---	23.81	46.00	22.19	1000.0	9.000	N	GND	0.3
1.320469	46.81	---	56.00	9.19	1000.0	9.000	L1	GND	0.3
1.320469	---	28.35	46.00	17.65	1000.0	9.000	L1	GND	0.3
1.471094	44.34	---	56.00	11.66	1000.0	9.000	N	GND	0.3
1.471094	---	28.91	46.00	17.09	1000.0	9.000	N	GND	0.3
1.619531	48.26	---	56.00	7.74	1000.0	9.000	N	GND	0.3
1.619531	---	31.65	46.00	14.35	1000.0	9.000	N	GND	0.3
1.761875	50.89	---	56.00	5.11	1000.0	9.000	L1	GND	0.3
1.761875	---	33.77	46.00	12.23	1000.0	9.000	L1	GND	0.3
1.911406	43.31	---	56.00	12.69	1000.0	9.000	L1	GND	0.3
1.911406	---	32.99	46.00	13.01	1000.0	9.000	L1	GND	0.3
2.206563	---	32.65	36.00	23.35	1000.0	9.000	N	GND	0.3
2.206563	41.26	---	56.00	14.74	1000.0	9.000	N	GND	0.3
2.497344	38.17	---	56.00	17.83	1000.0	9.000	L1	GND	0.2
2.497344	---	31.67	36.00	24.33	1000.0	9.000	L1	GND	0.2

3.01

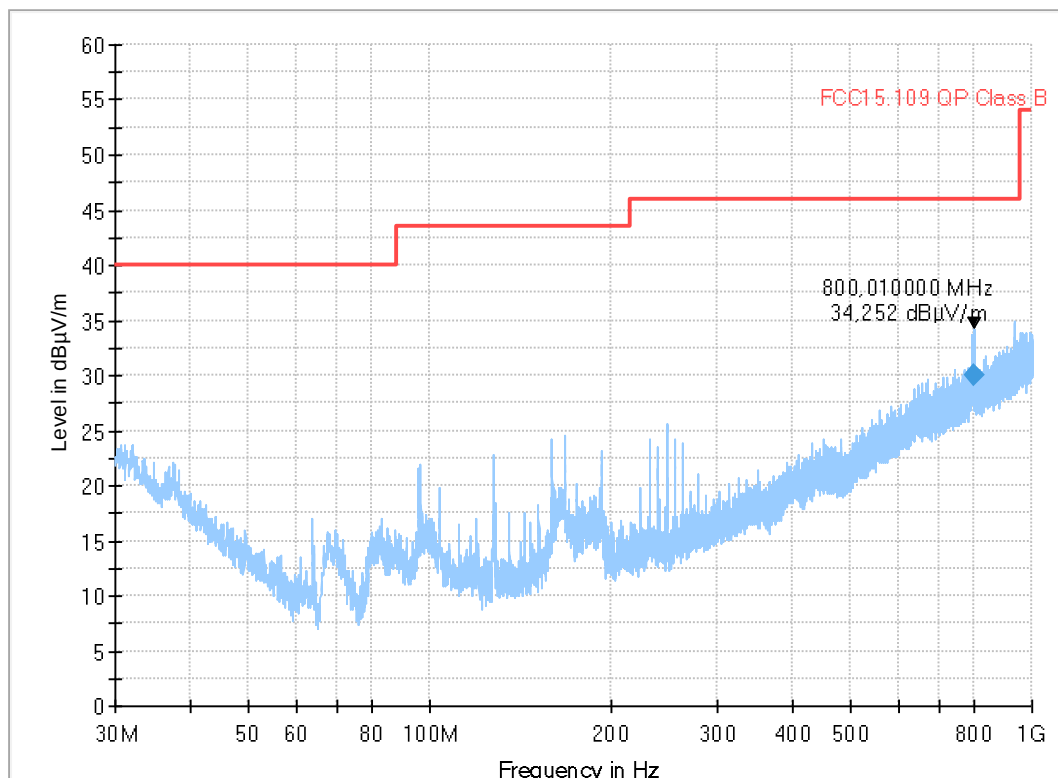
Common Information

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:	Receive Mode
Environmental Conditions:	Humidity : %rH; Temperature: °C
Operator:	TFra
Verdict:	Passed

EUT Information

PMT number:	21-1-01322S13_C01
Manufacturer:	SOMMER Antriebs- und Funktechnik GmbH
Product:	garage door opener
Model:	2110 pro+

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB/m)
800.009000	30.04	46.00	15.96	1000.0	120.000	312.0	H	49.0	25.3

4.01

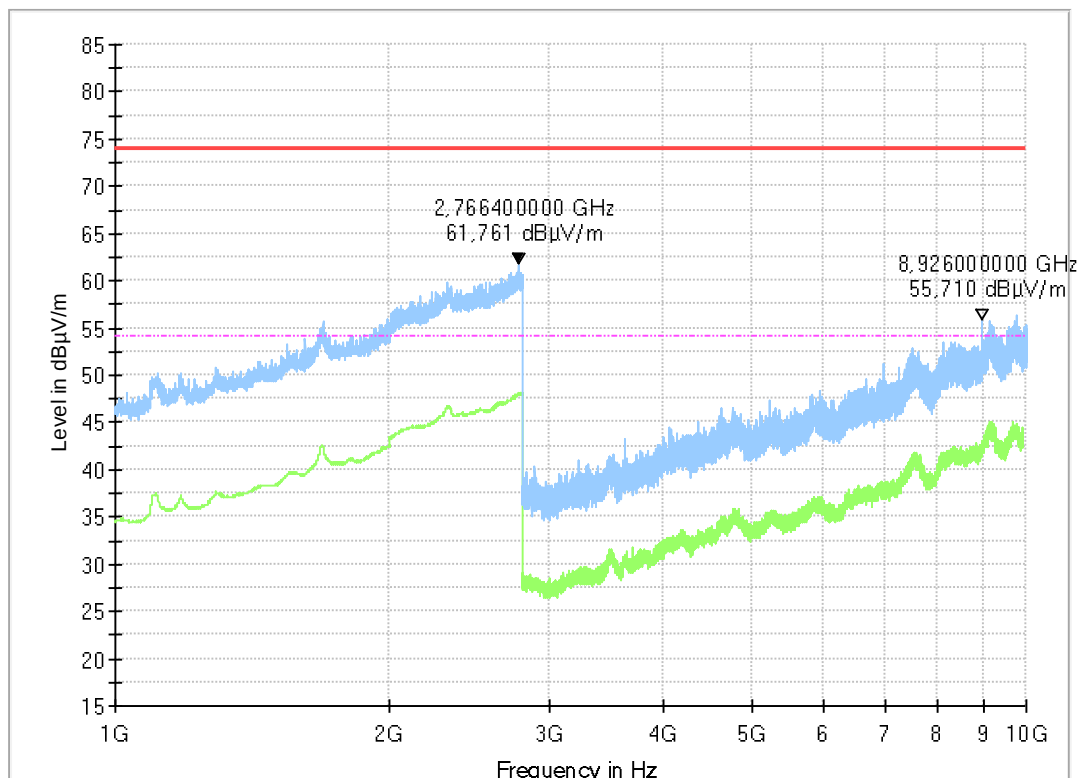
Common Information

Test Description:	Radiated Field 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:	Receive Mode + Motor on
Equipment Class:	Class B
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Operator:	Mar
EUT Setup:	1

EUT Information

PMT number:	21-1-01322S12_C01
Manufacturer:	SOMMER Antriebs- und Funktechnik GmbH
Product:	garage door opener
Model:	2110 pro+

Full Spectrum



End Of Annex 1