

Annex 1: Measurement diagrams 21-1-0156601T01a-C1-A1

Number of pages:	5	Date of Report:	2023-Nov-14
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:	genua GmbH
Test Object / Tested Device(s):	Cyber Diode cyber-diode Revision 3.0		
FCC ID:	2A8M94260481820320	IC:	--
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 7 (2020)		



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1 Measurement diagrams

1.01

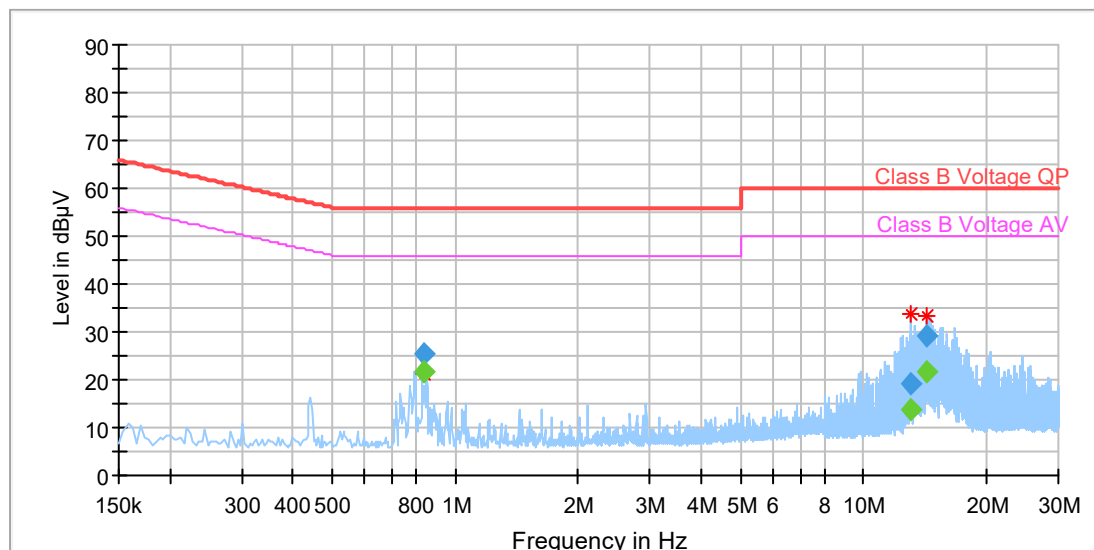
Common Information

Test Description:	Conducted Voltage Measurement Class B
Test Site Location:	Conducted Emission, CETECOM GmbH Essen
Test Software:	R&S EMC32 v9.15
Test Standard:	EN 55032 Class B
Operating Mode:	Data Connection
Measured on line:	+/-
Diagram details:	Shows the peak values as a sum of measured ports in maxhold mode
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	HLA

EUT Information

PMT number:	21-1-01566S02_C01
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Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.836719	25.54	---	56.00	30.46	1000.0	9.000	N	GND	0.2
0.836719	---	21.66	46.00	24.34	1000.0	9.000	N	GND	0.2
13.039219	19.18	---	60.00	40.82	1000.0	9.000	L1	GND	0.6
13.039219	---	13.92	50.00	36.08	1000.0	9.000	L1	GND	0.6
14.285938	---	21.48	50.00	28.52	1000.0	9.000	N	GND	0.6
14.285938	29.20	---	60.00	30.80	1000.0	9.000	N	GND	0.6

3.01

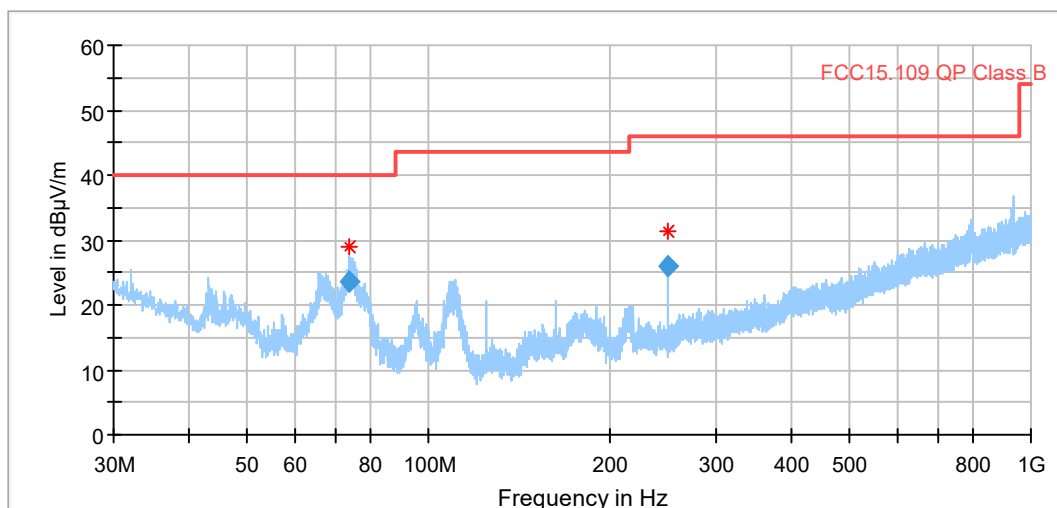
Common Information

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: Data Connection
Environmental Conditions: Humidity : 40% rH; Temperature: 20 °C
Operator: HLa

EUT Information

PMT number: 21-1-01566S02_C01

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB/m)
74.039000	23.67	40.00	16.33	1000.0	120.000	156.0	V	146.0	6.7
249.995000	26.02	46.00	19.98	1000.0	120.000	114.0	H	357.0	13.0

4.01

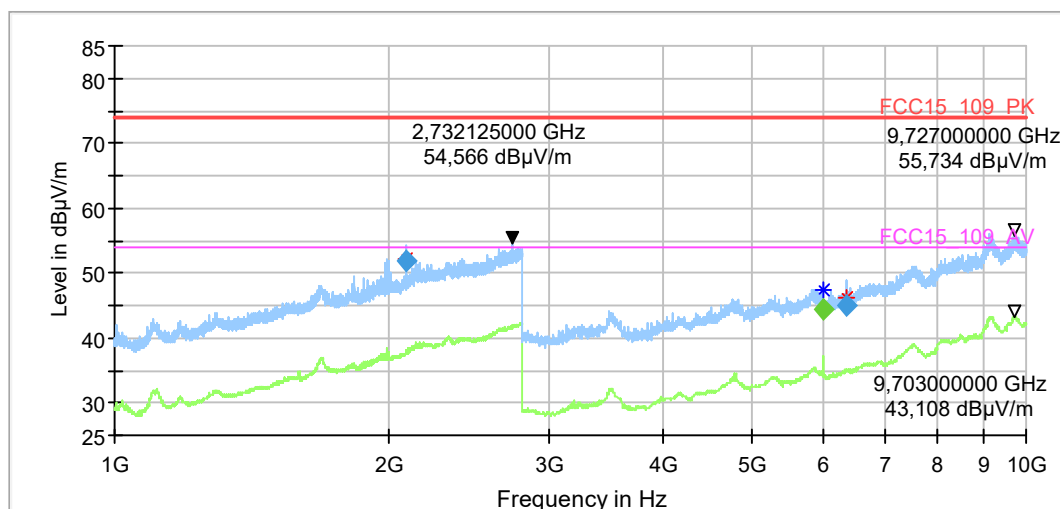
Common Information

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:	Data Connection
Equipment Class:	Class B
Environmental Conditions:	Humidity : 60%rH; Temperature: 20°C
Operator:	HLa

EUT Information

PMT number:	21-1-01566S02_C01
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Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n	Meas. Time (ms)	Bandwidt h	Heigh t	Pol	Azimut h	Elevatio n
2090.161000	51.86	---	74.00	22.14	100.0	1000.000	155.0	V	22.0	0.0
5999.944000	---	44.41	54.00	9.59	100.0	1000.000	155.0	V	120.0	90.0
6360.383333	45.06	---	74.00	28.94	100.0	1000.000	155.0	V	286.0	90.0

End Of Annex 1