EMC Lab Evaluation Form

ILAC MRA accredited EMC test facility details

Lab Name:	LGAI Technological Center S.A
	(Applus+ Laboratories)
Lab Address:	Ronda de la Font del Carme s/n
	08193 Bellaterra (Barcelona)
	Spain

EMC lab Contact details

Contact person:	José María Laborda
E-mail:	jose.laborda@applus.com
Telephone:	+34 646 354 251

Signature

(by EMC laboratory representative)

I hereby confirm that LGAI Technological Center S.A (Applus+ Laboratories) meet requirements and can perform tests according to this document.

I hereby agree that LGAI Technological Center S.A (Applus+ Laboratories) will send any documentation related to accreditations and calibration data if requested by CEVT.

Signed by:

Signature	*Date*
José María Laborda	17/02/2020
Printed name	

Confirmation of ISO 17025 Certification

ISO 17025 Certified	Yes
Valid until	Accreditation will remain valid until notification to the contrary. Its validity can be confirmed at www.enac.es
Link to certificate	https://www.enac.es/documents/7020/9d1718e8-db70-4d16-bb43-4e336dd4b973
No accreditation	9/LE894

Confirmation of ILAC/MRA Certification

ILAC/MRA Certified	Yes
Valid until	Accreditation will remain valid until notification to the contrary. Its validity can be confirmed at www.enac.es
Link to certificate	https://www.enac.es/documents/7020/9d1718e8-db70-4d16-bb43-4e336dd4b973
No accreditation	9/LE894

CEVT EMC Requirement list:

Electromagnetic compatibility specification	8888621495: Issue 003
Additional EMC requirements for charging systems connected to mains network.	8891253263: Issue 001
Specific EMC requirement for shielding components in the high voltage system	8888790454: Issue 002

Confirmation of accreditation per each test

Test	Standard	Yes / No / Partial	Comments
RE03	CISPR 25:2016	Yes	
RI01	ISO 11452-8:2015	Yes	
RI02	ISO 11452-4:2011	Yes	
RI03	ISO 11452-2:2004	Yes	
RI04	ISO 11452-9:2012	Yes	
CE01	ISO 7637-2:2011	Yes	
CE02	CISPR 25:2016	Yes	
CI01	ISO 7637-2:2011	Yes	
CI02	ISO 7637-2:2011	Yes	
	ISO 7637-3:2016	Yes	
ESD01	ISO 10605-2008 and Cor 1:2010 and Amd 1:2014	Yes	
ESD02	ISO 10605-2008 and Cor 1:2010 and Amd 1:2014	Yes	
Mains connected devices			
CI11	IEC 61000-4-4: 2012	Yes	
CI12	IEC 61000-4-5: 2014+AMD1:2017	Yes	
CI13	IEC 61000-4-11: 2004 +AMD1:2017 (≤16A) IEC 61000-4-34: 2005 + AMD1:2009 (> 16 A)	Yes	
CI14	IEC 61000-4-6:2013	Yes	
CI15	IEC 61000-4-17: 1999 +AMD1:2001+AMD2:2008	No*	The lab. has the test equipment and experience using it during the last 20 years. It could be included in the accreditation scope if required.
CE11	CISPR 16-1-1: 2019 CISPR 16-1-2:2014 + AMD1:2017 CISPR 16-2-1:2014 + AMD1:2017	Yes*	Related/Linked to base test method standards already accredited (CISPR 11, 24, 25, 32, etc.)
CE12	IEC 61000-3-2: 2018	Yes	

	IEC 61000-3-12:2011		
CE13	IEC 61000-3-3:2013 + AMD1:2017 IEC 61000-3-11: 2017	Yes	

Remark: if the EMC lab holds a valid standard accreditation, but due to limitational issues only can perform a subset of the test content specified in the CEVT EMC requirement, details should be clarified in the column of comments.

Part I: Confirm if the lab can perform the tests according to CEVT requirements 8888621495 Issue 3, "Electromagnetic Compatibility Specification".

In some cases, the CEVT EMC requirements are more extensive than referred standards, (e.g.) regarding frequency ranges and limit levels. The EMC lab shall confirm whether these observations have been taken into account, by processing the table below.

Test	Confirmation of lab equipment / knowledge		Comments
	YES	NO	
RE03	Yes		
RI01	Yes		
RI02	Yes		
RI03	Yes		
RI04	Yes		
CE01	Yes		
CE02	Yes		
CI01	Yes		
CI02	Yes		
ESD01	Yes		
ESD02	Yes		
Mains connected devices			
CI11	Yes		
CI12	Yes		
CI13	Yes		
CI14	Yes		
CI15	Yes		
CE11	Yes		
CE12	Yes		
CE13	Yes		

Part II: Confirm if the lab can perform the tests according to CEVT requirements 8888621495 Issue 3, "Electromagnetic Compatibility Specification"

For tests where official accreditation either does not exist, or is not needed, the EMC lab shall confirm if they have the requisite knowledge and equipment to perform tests according to CEVT EMC requirements.

Test	Standard	Confirmation of lab equipment / knowledge		Comments
		Yes	No	
RE01	MIL-STD-461G	Yes		
RE02	CISPR 25:2016	Yes		
	SAE J551-5 Rev MAY2012	Yes		
Rapid change of temperature	ISO 16750-4:2010, chapter 5.3.2.	Yes		Sock time depending on DUT size

Part III: Confirm if the lab can perform the tests according to CEVT requirements 8888790454 Issue 002, "Specific EMC requirements for shielded components in the HV System".

Test	Confirmation of lab equipment / knowledge		Comments
	YES	NO	
HV, System Internal Conducted emission	Yes		Pulse A/B generation by means of R&S SMW200 Vector signal generator. Option available under request.
HV, System Internal Conducted Immunity	Yes		
HV, Radiated Emission	Yes		
HV, Conducted emission on ext. ports	Yes		