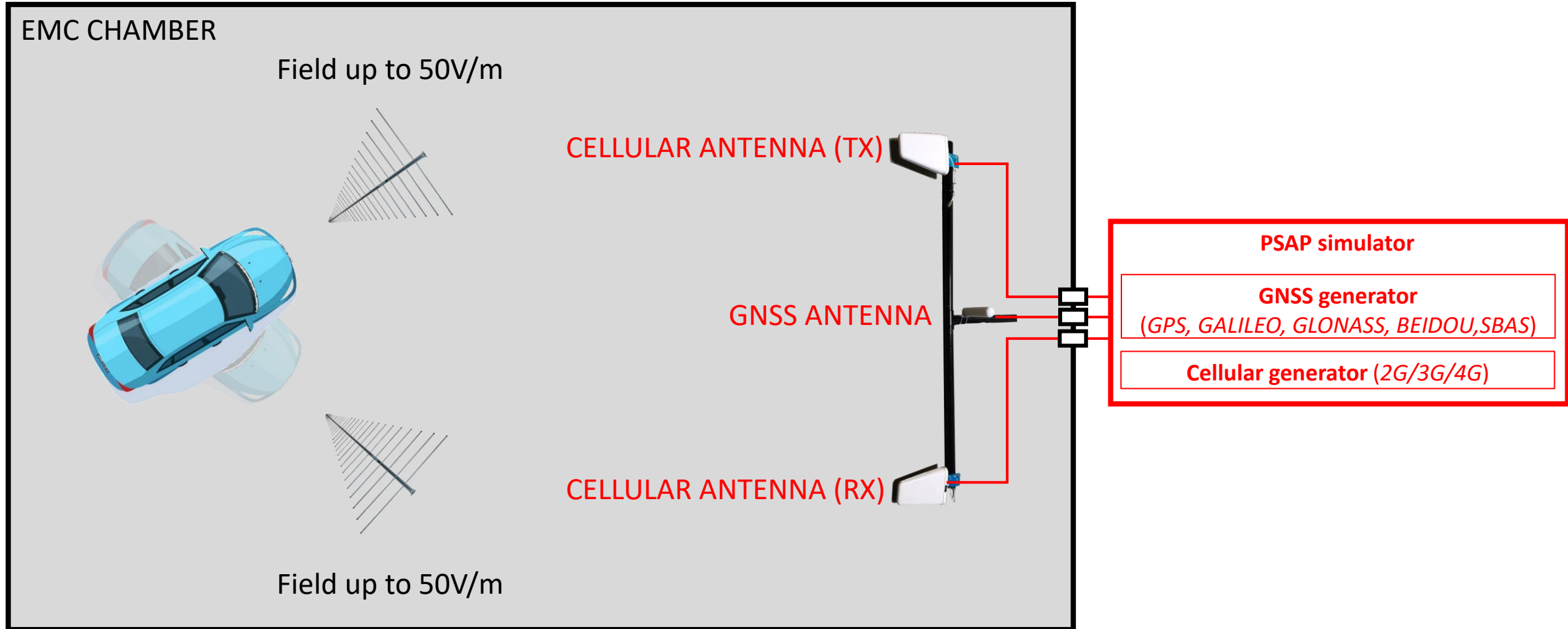


1. SETUP USED



Annex 12

E-Call

Paramètres eCall

Canal : WCDMA1

Fréquence : Middle

Constellations

- GPS (6)
- Glonass (4)
- SBAS (2)
- Galileo (6)
- Baidou (4)

Timeout : 30 s

Arrêt entre les sous-bandes

Initialisation

Activer Référence

Test

Manuel Automatique

Simulation

- Simuler l'activation/désactivation
- Simuler les ECalls
- Simuler un timeout pour les ECalls
- Changer la ligne "Version" du MSD
- Changer la ligne "Latitude" du MSD
- Changer la ligne "Version" du MSD Ref

Système

Activation Référence Verdict Type de défaut

Prêt Prêt Pass MSD Position Timeout

MSD

Fréquence 22M Modulation AM (80%, 1k) Désactiv Sous-Bande 20MHz - 29M

Element du MSD	Référence	Test
<input checked="" type="checkbox"/> Version	2	2
<input checked="" type="checkbox"/> MessageID	1	1
<input checked="" type="checkbox"/> AutomaticActivation	False	False
<input checked="" type="checkbox"/> TestCall	False	False
<input checked="" type="checkbox"/> Vehicle Type	"PassengerVehicleClassM1"	"PassengerVehicleClassM1"
<input checked="" type="checkbox"/> IsoWorldManufacturingIndexInfo	"VR3"	"VR3"
<input checked="" type="checkbox"/> IsoVehicleTypeDescriptorInfo	"ATTENT"	"ATTENT"
<input checked="" type="checkbox"/> IsoVehicleIdentificationSectionMod...	"M"	"M"
<input checked="" type="checkbox"/> IsoVehicleIdentificationSectionPlant	"Y526033"	"Y526033"
<input checked="" type="checkbox"/> GasolineTankPresent	Present True	Present True
<input checked="" type="checkbox"/> Diesel TankPresent	Not Present	Not Present
<input checked="" type="checkbox"/> CompressedNaturalGas	Not Present	Not Present
<input checked="" type="checkbox"/> LiquidPropaneGas	Not Present	Not Present
<input checked="" type="checkbox"/> ElectricEnergyStorage	Present True	Present True
<input checked="" type="checkbox"/> HydrogenStorage	Not Present	Not Present
<input checked="" type="checkbox"/> OtherStorage	Not Present	Not Present
<input checked="" type="checkbox"/> TimeStampValue	1560211727	1560211727
<input checked="" type="checkbox"/> Date	"Tue Jun 11 00:08:47 2019"	"Tue Jun 11 00:08:47 2019"
<input checked="" type="checkbox"/> PositionLatitude	48.625904	48.625904
<input checked="" type="checkbox"/> PositionLongitude	2.252708	2.252708
<input checked="" type="checkbox"/> VehicleDirection	258	258
<input checked="" type="checkbox"/> Latitude Delta 1	0	0
<input checked="" type="checkbox"/> Longitude Delta 1	0	0
<input checked="" type="checkbox"/> Latitude Delta 2	0	0
<input checked="" type="checkbox"/> Longitude Delta 2	0	0
<input checked="" type="checkbox"/> NumberOfPassengers	4	4

Rapport

Definition of Minimum Set of Data (MSD)

The following table lists the Minimum Set of Data (MSD) that shall be conveyed during the emergency data transmission to the PSAP.

Table 11
Minimum set of data (MSD) to be conveyed to PSAP

Short Name of MSD Element	Description
Automatic activation	Indicates whether a call was automatically or manually triggered.
Test call	Indicates whether the call is a test call or a real emergency call.
Position can be trusted	Indicates whether the position given in the position elements can be trusted or has only low confidence.
Vehicle type	Provides a vehicle type.
VIN	Vehicle Identification Number.
Vehicle propulsion storage type	Provides the propulsion type of the vehicle.
Time stamp	Timestamp of the initial data message generation within the current accident emergency call incident event.
Position latitude	The last known vehicle Latitude position determined at the latest moment possible before message generation.
Position longitude	The last known vehicle Longitude position determined at the latest moment possible before message generation.
Vehicle direction	The vehicle's last known real direction of travel determined at the latest moment possible before message generation.

3. TEST PERFORMED

- First tests performed according to the following conditions :

- Field level : **30V/m**
- Test frequency band: **20 – 2000MHz**
- Cellular band DCS/3G (**1660 – 2000 MHz, according to our filtering**)
- Number of points: Test frequency band (**127**) – Cellular band 3G (**9**) = **118**

Frequency band	Linear step	Number of points
20 to 200	5	35
>200 to 400	10	39
>400 to 1000	20	29
>1000 to 2000	40	24
1660 to 2000	40	9

- Observations :

- No breakage of the e-Call module observed
- No problems with cell connection
- Sweep time: **30 - 60 seconds** per point (between **1 hour** and **2 hour**)

4. PROPOSITION

"e-call" vehicle test conditions	Failure criteria
<p>e-call shall be tested (either by performing a functionality by a manually or automatically enabled call either to emergency services or to emulated system) during the tests defined in "50 km/h mode" or in "Brake mode" vehicle test conditions (outside frequency band defined in clause 6.10.6) .</p>	<p>Check correct MSD reception (Automatic activation, Test call, position can be trusted, vehicle type, VIN, vehicle propulsion storage type, Time stamp, Position latitude, Position longitude, Vehicle direction).</p> <p>Check the audio connection has a quality that the words are understandable.</p>

To remember

- **Clause 6.10.6.**
"The loss of function of receivers during the immunity test, when the test signal is within the receiver bandwidth (RF exclusion band) as specified for the specific radio service/product in the harmonized international EMC standard, does not necessarily lead to fail criteria."
- **Annex 6 clause 4.1.1.**
"The Technical Service shall perform the test at the intervals specified in ISO 11451-1 throughout the frequency range 20 to 2,000 MHz.
Alternatively, if the manufacturer provides measurement to data for the whole frequency band from a test laboratory accredited to the applicable parts of ISO 17025 and recognized by the Type Approval Authority, the Technical Service may choose a reduced number of spot frequencies in the range, e.g. **27, 45, 65, 90, 120, 150, 190, 230, 280, 380, 450, 600, 750, 900, 1,300 and 1,800 MHz** to confirm that the vehicle meets the requirements of this annex."