



Welcome to MIRA's Proposed RF Transmitter Vehicle Data Base

Presented By

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Automotive EMC Directive 2004/104/EC as amended by 2006/96/EC RF Transmitters Declaration Statement

Section 3.1.8

- ◆ **Information (antenna location, RF power and frequencies) must be made publicly available following the type-approval.**

Information listed in Information Document Annex IIA, Section 12.7 as part of whole vehicle EMC Type Approval

Frequency & RF Power Automotive Practice

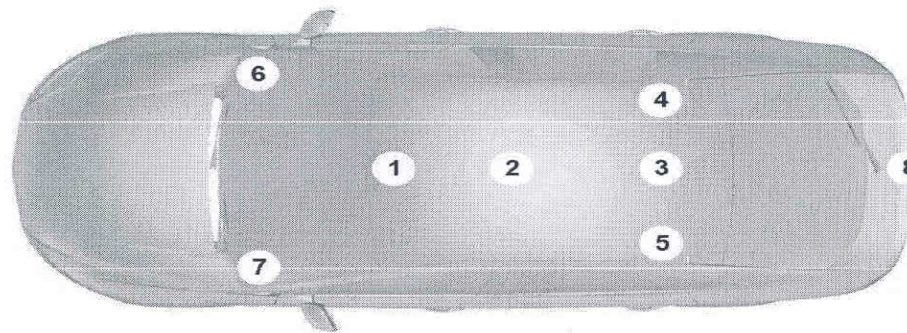
- ◆ Vehicle Manufacturer Specification
- ◆ ISO 11451-3:2007, On-board transmitter simulation frequencies and power levels
- ◆ Typical end user e.g. PMR, GSM, Bluetooth to cover all mobile radio services normally used in vehicles

Tests are at power levels in excess of commercially available RF equipment

Annex IIA Section 12.7 Information can be one or all of above with the optional addition of separate RF equipment installation guidance and RTTE Declaration of Conformity

Annex IIA Section 12.7 Sample

Table of installation and use of RF transmitters



Frequency Band MHz	Maximum output power Watt (Peak RMS)	Antenna Positions
1 – 30	50 W	3, 8
30 – 54	50 W	2, 3
68 – 87.5	50 W	1, 2, 3, 4, 5
142 – 176	50 W	1, 2, 3, 4, 5
380 – 512	50 W	1, 2, 3, 4, 5
806 – 940	10 W (2 W ¹)	1, 2, 3, 4, 5 (6 ¹ , 7 ¹)
1200 – 1400	10 W	2
1710 – 1885	10 W (1 W ¹)	1, 2, 3, 4, 5 (6 ¹ , 7 ¹)
1885 – 2025	10 W (1 W ¹)	1, 2, 3, 4, 5 (6 ¹ , 7 ¹)
2400 – 2500	0.1 W	All positions

¹Only for GSM/3G cellular phones, with a patch antenna installed inside of the front windscreen.

Proposal Current Status

- ◆ Contact with vehicle manufacturers, dealers, type approval service and automotive trade bodies to enquire how this information may be acquired and if it is publicly available.

Database Structure

- ◆ MIRA Ltd would develop and implement a searchable database.
- ◆ Database would be licensed to FCS who could then charge their members at an agreed fee.
- ◆ Annual fee would be to maintain update of database.

Database Format

- ◆ Searchable database based on Vehicle manufacturer / Vehicle Type
- ◆ List Antenna position, Frequency, Maximum Power and installation instructions if available



Discussion

- ◆ FCS Members experience of acquiring information
- ◆ What information



Thank You

MIRA