



- The RvA is a signatory to the EA MLA.
- The RvA is a signatory to the ILAC MRA.

- The RvA is a signatory to the IAF MLA.

Test report No: 2281846.0502-RSM

TEST REPORT (PARTIAL) Radio Spectrum Matters (RSM)

(*)	Identification of item tested	Lappset Luna play and dance spot				
(*)	Trademark	Lappset Luna				
(*)	Model and /or type reference	YA3400				
(*)	Features	GSM Bands 900 MHz and 1800 MHz				
(*)	Derived model(s)	N/A				
(*)	Applicant's name / address	Lappset Yalp B.V. Nieuwenkampsmaten, 12, 7472 DE Goor, The Netherlands.				
	Test method requested, standard	ETSI EN 301 511 V12.5.1— Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU				
	Verdict Summary	IN COMPLIANCE (refer to chapter 3 for details)				
	Tested by (name / position & signature)	Miguel M. López Guzmán Technical Professional EMC&RF				
	Approved by (name / position & signature)	Sedat Eser Operational Manager EMC&RF				
	Date of issue	2024-03-17				
	Report template No	TRF_RSM_EN301511 R2.0 (*) "Data provided by the applicant"				

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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GENERAL CONDITIONS

- 1. This report is only referred to the item that has undergone the test.
- 2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
- 3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
- 4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document AMS#2224.. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. Refer to the Annex 1 for furter information.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%
Atmospheric pressure	86 kPa – 106 kPa

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

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POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

DEFINITION OF SYMBOLS USED IN THIS TEST REPORT

☑ Indicates that the listed condition, standard or equipment is applicable for this report/test/EUT.				
☐ Indicates that the listed condition, standard or equipment is not applicable for this report/test/EUT.				
Decimal separator used in this report Comma (,) Point (.)				

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

ASK : Amplitude Shift Keying

BER : Bit Error Rate

ERP/e.r.p. : effective radiated power **EMC** : ElectroMagnetic Compatibility

EMF/emf : ElectroMagnetic Field

ERC : European Radiocommunications Committee
EUT / DUT : Equipment Under Test / Device Under Test

HF: High Frequency (range)

ISM : Industrial, Scientific and Medical ITU-T : ITU-Telecommunication sector

LF : Low Frequency

NFC : Near Field Communication
OATS : Open Area Test Site
OBW : Occupied BandWidth

OFR : Operating Frequency Range

R&TTE : Radio and Telecommunications Terminal Equipment

RF : Radio Frequency

RFID : Radio Frequency Identification

RMS : Root Mean Square

RX : Receiver

SND : Signal, Noise and Distortion

SND/ND : Signal, Noise and Distortion over Noise and Distortion

SRD : Short Range Device
TR : Technical Report
TX : Transmitter

MS Mobile Station

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DATA PROVIDED BY THE APPLICANT

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested" and "Features").

DEKRA Certification B.V. declines any responsibility with respect to the information provided by the applicant and that may affect the validity of results.

DOCUMENT HISTORY

Report nr.	Date	Description
2281846.0502-RSM	2024-03-17	First release.

CONCLUSION, REMARKS AND COMMENTS

This is a partial test report. Not all the tests requested by the applicable standard have been performed. Please refer to chapter 3 for the applied tests.

The equipment under test (EUT) does meet the requirements of the following tests as detailed in the applicable standard(s):

Radiated spurious emissions test according to ETSI EN 301 511

The applicant stated that the RF modules used in the EUT are pre-certified according to the latest applicable version of the standard(s). This is a partial test report and is valid in combination with the RF test report(s) of the RF module used. It encloses the test results given at chapter 4. Refer to this chapter for further details.

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1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Description of the item:	Lappset Luna play and dance spot						
Model / Type number:	YA3400						
Serial number:	YA3400 / 1702						
Trademark:	Lappset Luna						
Manufacturer	Lappset Yalp B. V.						
Address:	Nieuwenkampsmaten 12, 7472 DE Goor 7	The Ne	etherla	nds			
Operating frequency range(s) – Tx:	900/1800 MHz						
Operating frequency range(s) – Rx:	900/1800 MHz						
Type of Modulation:	GSMK, 8PSK						
Number of channel:							
Antenna type:	Tango 44						
Antenna gain:							
Rated power supply:	Voltage and Frequency		Refe	rence p	oles		
		L1	L2	L3	N	PE	
		\boxtimes			\boxtimes	\boxtimes	
	DC:						
	Battery:						
Rated Power:	150 W						
Clock frequencies:	1000 MHz CPU Clock Frequency (PLL) 24	4 MHz,	, 25 Mł	Hz, 22.5	5792 N	ИHz	
Other parameters:	2G, 3G, LTE						
Software version:							
Hardware version:	Luna electronics set 2023/YIN252/Rev102	2					
Hardware version: Dimensions in mm (W x H x D):	Luna electronics set 2023/YIN252/Rev102 600mm x 600mm x 230mm	2					
Hardware version:	Luna electronics set 2023/YIN252/Rev102 600mm x 600mm x 230mm Table top equipment	2					
Hardware version: Dimensions in mm (W x H x D):	Luna electronics set 2023/YIN252/Rev102 600mm x 600mm x 230mm	2					
Hardware version: Dimensions in mm (W x H x D):	Luna electronics set 2023/YIN252/Rev102 600mm x 600mm x 230mm Table top equipment	2					
Hardware version: Dimensions in mm (W x H x D):	Luna electronics set 2023/YIN252/Rev102 600mm x 600mm x 230mm Table top equipment Wall/Ceiling mounted equipment	2					
Hardware version: Dimensions in mm (W x H x D):	Luna electronics set 2023/YIN252/Rev102 600mm x 600mm x 230mm Table top equipment Wall/Ceiling mounted equipment Floor standing equipment						
Hardware version: Dimensions in mm (W x H x D):	Luna electronics set 2023/YIN252/Rev102 600mm x 600mm x 230mm Table top equipment Wall/Ceiling mounted equipment Floor standing equipment Hand-held equipment	2					

Lappset Luna Interactive dance and play spot, Luna is an interactive playee that magically responds to the players in it. It detects players' movement and reacts with sound and music. Children are encouraged to dance, play, and work together in various games. Every time you enter the field, you will be surprised with games and challenges to discover together.

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No	Module/parts of test item	Туре	Manufacturer
1	Computer board Luna YIN2	Rev252	KITT Engineering
2	Modem Module LE910C4 XX Linux mPCle Series 2G 3G LTE	LE910C4XX	TELIT
3	Power Supply	HEP-150-15A	Meanwell
4	Antenna	Tango 44	Siretta
5	Speaker	Control25-1L	JBL
6	Camera	2023 / V3.10	KITT Engineering

Modifications to the test item during testing:		N/A	\boxtimes	Refer to the chapter 5
--	--	-----	-------------	------------------------

Copy of marking plate:





Made in the Netherlands www.lappset.com

100-240 V~ 50/60 Hz Max. 150 W IP54



Complies with: UL-62368-1 CSA C22.2 No. 62368-1

E107438

Contains FCC ID: R17LE910CXNF.

The device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including that may cause undesired operation. Contains IC: 5131A-LE910CXNF.

NEN-EN1176-1:2017

2024|2025|2026 1|2|3|4|5|6|7|8|9|10|11|12

1.2 Test data

Test Location	DEKRA Certification B.V., The Netherlands
Date (start)	2023-12-22
Date (finish)	2024-02-23

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2 DESCRIPTION OF TEST SETUP

2.1 Sample(s) used for tests

During the tests the following sample(s) has(have) been used.

Sample	Logistics number	Model number	Serial number	Remark(s) / Changes			
01	1000782/1-0	YA3400	YA3400 YA3400 / 1702				
Supplem	Supplementary information:						

2.2 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

For GSM1800:

Operation Mode	Description
OM#01	EUT ON. MS in traffic mode. GSM 1800 MHz Powered by 230 Vac
OM#02	EUT ON. MS in idle mode. GSM 1800 MHz. Powered by 230 Vac

2.3 Test conditions

Power supply (V):

Vnom= 230 Vac / 50 Hz.

Vmin= N/A Vmax= N/A

Type of Power Supply: Powered by AC power.

Temperature (C): Tn = +15 to +35.

Tmin= N/A
Tmax= N/A

TEST Setup

All radiated tests were performed in a semi-anechoic chamber. The used measurement antenna's are:

- Ultralog antenna situated at a distance of 3 m for the range between 30 MHz to 1000 MHz.
- Double ridge horn antenna is situated at a distance of 3 m for the frequency range of 1 GHz to 4 GHz.

The equipment under test was set up on a floor non-conductive platform at a height of 1.6 m above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

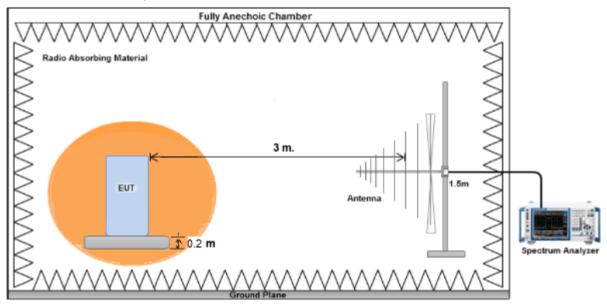
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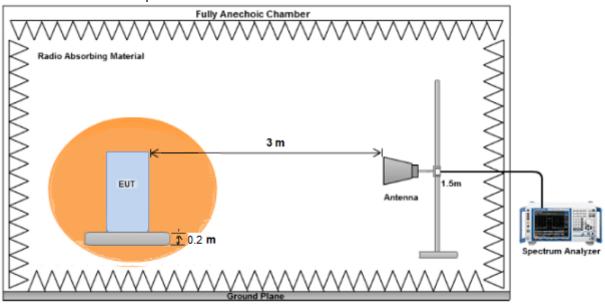
TEST FREQUENCIES FOR RADIATED TESTS:

BAND (GSM)	Frequency (MHz)	CHANNEL
GSM 1800	1747.6	699

Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 4 GHz:



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3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
ETSI EN 301 511 V12.5.1		Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

3.2 Overview of results - GSM 900/1800

EN 301 511 RSE Tests					
Requirement – Test case	Verdict	Remark			
Radiated spurious emissions test Band GSM 1800	PASS	See 1			
Radiated spurious emissions test Band GSM 900	N/M	See 2			

Supplementary information:

- 1. The module is already approved and since the manufacturer did not declare any voltage range the testing is done at nominal voltage.
- 2. The module is certified. Test not requested by the applicant.

3.3 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

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4 TEST RESULTS. GSM 1800

TEST Setup

The EUT is placed inside the chamber on a turntable. A horn antenna is placed in the chamber which is connected to CMW500 on the outside of the chamber. CMW500 is used to connect and communicate with the EUT for test purposes.

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4.1 Radiated Spurious Emissions (30 - 1000 MHz)

VERDICT: PASS

Standard	ETSI EN 301 511				
Suplementary information / Remark:					

Limits - MS allocated a channel

		Power level in dBm					
Freque	ency Range	GSM 400, GSM 700, T-GSM 810, GSM 850, GSM 900	DCS 1800	PCS 1900			
30 MHz	1 GHz	-36	-36	-36			
1 GHz	4 GHz	-30		-30			
1 GHz	1710 MHz		-30				
1710 MHz	1785 MHz		-36				
1785 MHz	4 GHz		-30				

Limits - MS in IDLE mode

		Power level in dBm					
Freque	ency Range	GSM 400, T-GSM 810, GSM 900, GSM 1800	GSM 700, GSM 850, PCS 1900				
30 MHz	880 MHz	-57	-57				
880 MHz	915 MHz	-59	-57				
915 MHz	1000 MHz	-57	-57				
1 GHz	1710 MHz	-47					
1710 MHz	1785 MHz	-53					
1785 MHz	4 GHz	-47					
1 GHz	1850 MHz		-47				
1850 MHz	1910 MHz		-53				
1910 MHz	4 GHz		-47				

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Performed measurements

The following configuration(s) and parameter(s) was/were used for testing:

Port under test	Encl	closure (with cabling)					
Test method	Х	Semi Anechoic Chamber					
		Open Area Test Site (OATS)					
		In-Situ (at user/manufacturer premises)					
		GTEM cell					
		Other:					
Toot oot up		Equipment on a table of 90 cm height					
Test set-up	X	Equipment on a table of 80 cm height					
		Equipment on the floor (insulated from the reference ground plane)					
		Other:					

OM#	[V]/[Hz] (mains)	Technology	Mode / Modulation	Channel / Freq.	Frequency range	Antenna Polar. / axis	Measurement distance	P/F	Sup. Info / Remark
01	230 / 50	GSM1800	Traffic	699	30 - 1000 MHz	H/V	3 m.	Р	
02	230 / 50	GSM1800	Idle	699	30 - 1000 MHz	H/V	3 m.	Р	
Suple	Suplementary information / Remark:								

RESULTS (30 MHz - 1 GHz) - Traffic Mode

Mode	EARFCN UL	Results	Verdict
01	699	No radiated spurious signals detected more than 6 dB below the limit.	P

RESULTS (30 MHz - 1 GHz) - Idle Mode

Mode	EARFCN UL	Results	Verdict
02	699	Radiated spurious signals detected more than 6 dB below the limit.	Р

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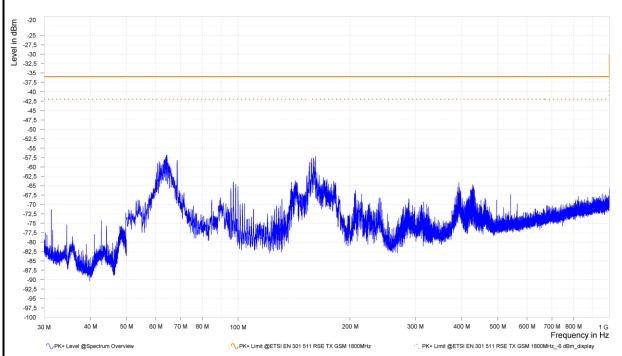


Measurement data:

Common Information

EUT/Sample # / OM# : Luna / 01 / 01 Voltage/Frequency : 230 V / 50 Hz Port/Terminal under test : Enclosure

Remark/Comment : GSM 1800 MHz Traffic Mode



Supplementary information:

- The "Azimuth/Pol/Height" indicates the turn-table azimuth, the antenna polarization and the antenna height where the maximum emissions level was measured.
- The "Margin" is with reference to the emissions limit. A positive number indicates that the emission measurement is below the limit. A negative number indicates that the emission measurement exceeds the limit.

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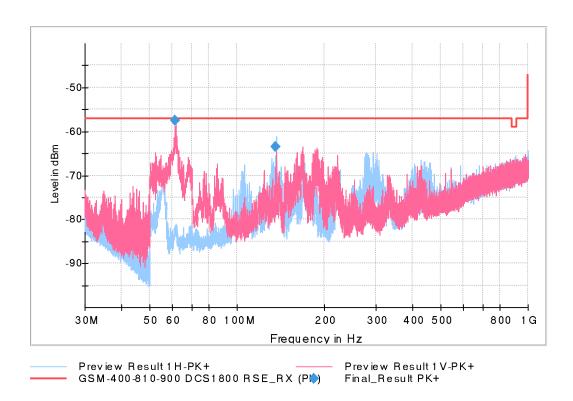


Measurement data:

Common Information

EUT/Sample # / OM# : Luna / 01 / 02 Voltage/Frequency : 230 V / 50 Hz Port/Terminal under test : Enclosure

Remark/Comment : GSM 1800 MHz Idle Mode



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.287082	-57.58	-57.00	0.58	3000.0	100.000	145.0	٧	321.0	-88.4
136.047868	-63.56	-57.00	6.56	3000.0	100.000	177.0	Н	77.0	-84.9

Supplementary information:

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⁻ The "Azimuth/Pol/Height" indicates the turn-table azimuth, the antenna polarization and the antenna height where the maximum emissions level was measured.

⁻ The "Margin" is with reference to the emissions limit. A positive number indicates that the emission measurement is below the limit. A negative number indicates that the emission measurement exceeds the limit.



VERDICT: PASS

4.2 Radiated Spurious Emissions (1 - 4 GHz)

Standard ETSI EN 301 511
Suplementary information / Remark:

Limits - MS allocated a channel

			Power level in dBm	
Freque	ency Range	GSM 400, GSM 700, T-GSM 810, GSM 850, GSM 900	DCS 1800	PCS 1900
30 MHz	1 GHz	-36	-36	-36
1 GHz	4 GHz	-30		-30
1 GHz	1710 MHz		-30	
1710 MHz	1785 MHz		-36	
1785 MHz	4 GHz		-30	

Limits - MS in IDLE mode

		Power level in dBm		
Freque	ency Range	GSM 400, T-GSM 810, GSM 900, GSM 1800	GSM 700, GSM 850, PCS 1900	
30 MHz	880 MHz	-57	-57	
880 MHz	915 MHz	-59	-57	
915 MHz	1000 MHz	-57	-57	
1 GHz	1710 MHz	-47		
1710 MHz	1785 MHz	-53		
1785 MHz	4 GHz	-47		
1 GHz	1850 MHz		-47	
1850 MHz	1910 MHz		-53	
1910 MHz	4 GHz		-47	

Performed measurements

The following configuration(s) and parameter(s) was/were used for testing:

Port under test	End	closure (with cabling)				
Test method	Х		Absorber-lined Semi Anechoic Chamber (SAC)			
		Absorbe	Absorber-lined Open Area Test Site (OATS)			
		In-Situ (a	In-Situ (at user/manufacturer premises)			
		Other:				
		1				
Test set-up	X	Equipment on a table of 80 cm height				
		Equipment on the floor (insulated from the reference ground plane)				
		Other:	The EUT is installed on a support of 1,5 m. above the ground reference			
		5	plane.			

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OM#	[V]/[Hz] (mains)	Technology	Mode / Modulation	Channel / Freq.	Frequency range	Antenna Polar. / axis	Measurement distance	P/F	Sup. Info / Remark
01	230 / 50	GSM1800	Traffic	699	1 - 4 GHz	H/V	3 m.	Р	
02	230 / 50	GSM1800	Idle	699	1 - 4 GHz	H/V	3 m.	Р	

Suplementary information / Remark:

RESULTS (1 GHz - 4 GHz) - Tx Mode

Mode	Channel	Results	Verdict
01	699	No radiated spurious signals detected more than 6 dB below the limit.	Р

RESULTS (1 GHz - 4 GHz) - IDLE Mode

Mode	Channel	Results	Verdict
02	699	No radiated spurious signals detected more than 6 dB below the limit.	Р

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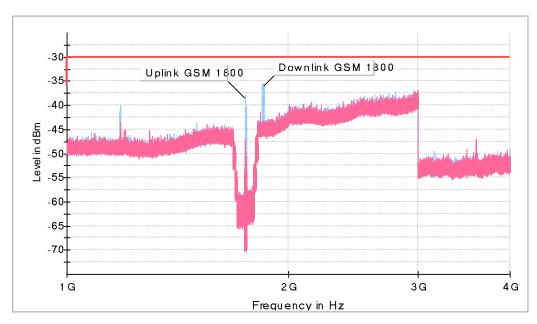


Measurement data:

Common Information

EUT/Sample # / OM# : Luna / 01 / 01 Voltage/Frequency : 230 V / 50 Hz Port/Terminal under test : Enclosure

Remark/Comment : GSM 1800 MHz Traffic Mode



Preview Result 1 H-PK+ Preview Result 1 V-PK+

GSM-400-700-810-850-900 PS1900 RSE_TX (PK)

Final_Result PK+

Supplementary information:

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⁻ The "Azimuth/Pol/Height" indicates the turn-table azimuth, the antenna polarization and the antenna height where the maximum emissions level was measured.

⁻ The "Margin" is with reference to the emissions limit. A positive number indicates that the emission measurement is below the limit. A negative number indicates that the emission measurement exceeds the limit.

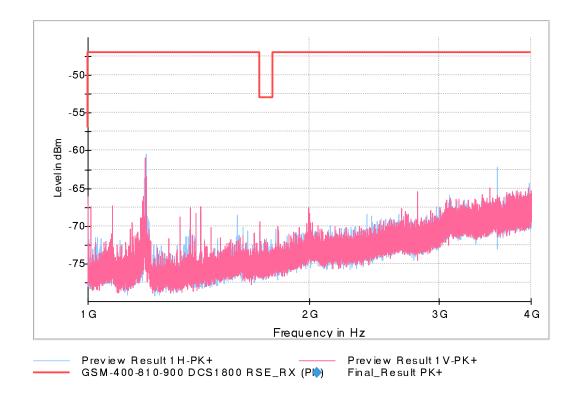


Measurement data:

Common Information

EUT/Sample # / OM# : Luna / 01 / 02 Voltage/Frequency : 230 V / 50 Hz Port/Terminal under test : Enclosure

Remark/Comment : GSM 1800 MHz Idle Mode



Supplementary information:

Report no.: 2281846.0502-RSM

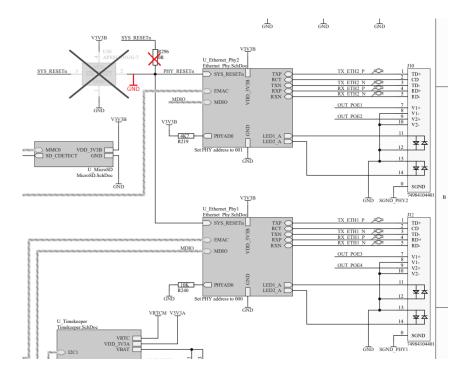
⁻ The "Azimuth/Pol/Height" indicates the turn-table azimuth, the antenna polarization and the antenna height where the maximum emissions level was measured.

⁻ The "Margin" is with reference to the emissions limit. A positive number indicates that the emission measurement is below the limit. A negative number indicates that the emission measurement exceeds the limit.

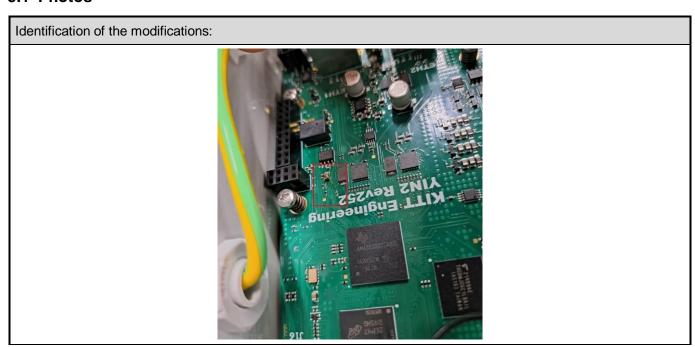


5 DESCRIPTION OF MODIFICATIONS

- 1. R296 Removed (decouple SYS_RESETn From PHY RESETn)
- 2. Place a Ground connection on PHY_RESETn to put the line in reset.



5.1 Photos



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ANNEX 1: USED EQUIPMENT

#	Manufacturer	Description	DEKRA ID
1	Rohde & Schwarz	ESU26 EMI Test Receiver	126351
2	Bonn Elektronik	Pre-Amp	134808
3	Ara technologies	Horn Antenna	118369
4	Rohde & Schwarz	Biconical / Logper Antenna	132292
5	Rhode & Schwarz	Horn Antenna	134927
6	Huber & Suhner	RF Blue Cable (10m)	134187
7	Huber & Suhner	RF Blue Cable (1m)	134185
8	Huber & Suhner	RF Blue Cable (5m)	132533
9	Wainwright instruments	High Pass Filter	132561-D
10	Comtest	Anechoic Chamber 5m	129683
11	Rohde-Schwarz	EMC32 V10.60.20	500000
12	Rohde-Schwarz	CMW500	140106
13	Rohde & Schwarz	ESW44	135750
14	ETS-Lindgren	Anechoic Chamber 5m	135615
15	Rohde-Schwarz	Elektra V5.01	500160

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ANNEX 2: PHOTOGRAPHS

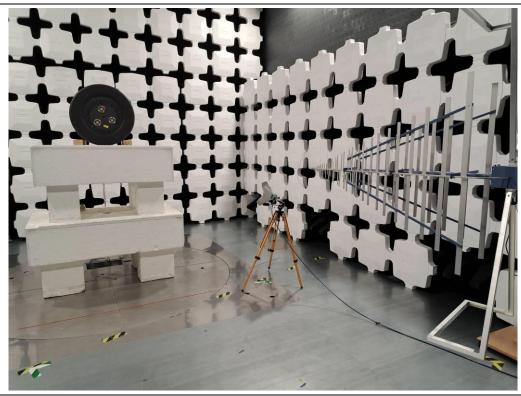


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Test Photo(s):

Test set-up 30 MHz - 1 GHz



Test set-up 1 – 12.75 GHz



END OF REPORT

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