



902MHz-928MHz Template: Release August 08th, 2017

TEST REPORT

N°: 152986-715266 Version : 01

Subject Radio spectrum matters

tests according to standards: 47 CFR Part 15.247 №

Issued to IJINUS

25 ZA de Kervidanou 3

29300-MELLAC

FRANCE

Apparatus under test

♦ Product Overflow Detector

☼ Trade mark☼ Manufacturerఢ Model under testIJINUSLSC

♦ Serial number
 ₽ FCC ID
 296-299
 SE6E002

Test date : February 20, 2018 **Test location** : Fontenay Aux Roses

Composition of document 34 pages

Document issued on March 1, 2018

Written by : Mathieu CERISIER Tests operator



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LCIE

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PUBLICATION HISTORY

Version	Date	Author	Modification
01	February 26, 2018	Mathieu CERISIER	Creation of the document



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1. **TEST PROGRAM**

References

- 47 CFR Part 15.247
- KDB 558074 D01 DTS Meas Guidance v04
- ANSI C63.10-2013

Radio requirement:

Clause (47CFR Part 15.247) Test Description		Test result - Comments				
Occupied Bandwidth 🏱	☑ PASS	□ FAIL	□ NA	□ NP(1)		
6dB Bandwidth 🖰	☑ PASS	□ FAIL	□ NA ()	□ NP(1)		
Duty Cycle ₽	☑ PASS	□ FAIL	□NA	□ NP(1)		
Maximum Conducted Output Power №	☑ PASS	□ FAIL	□NA	□ NP(1)		
Power Spectral Density 🎘	☑ PASS	□ FAIL	□NA	□ NP(1)		
Conducted Spurious Emission at the Band Edge 🏱	☑ PASS	□ FAIL	□ NA ()	□ NP(1)		
Unwanted Emissions into Non-Restricted Frequency Bands 🏻	☑ PASS	□ FAIL	□ NA ()	□ NP(1)		
AC Power Line Conducted Emission 🎘	□ PASS	□ FAIL	☑ NA(2)	□ NP(1)		
Unwanted Emissions into Restricted Frequency Bands 🎘	☑ PASS	□ FAIL	□NA	□ NP(1)		
Receiver Radiated emissions 🎘	☑ PASS	□ FAIL	□ NA	□ NP(1)		
This table is a summary of test report, see conclusion of each clause of this test report for detail.						

(1): Limited program(2): EUT not directly or indirectly connected to the AC Power Public Network

PASS: EUT complies with standard's requirement FAIL: EUT does not comply with standard's requirement

NA: Not Applicable NP: Test Not Performed



2. EQUIPMENT UNDER TEST: CONFIGURATION (DECLARED BY PROVIDER)

2.1. HARDWARE IDENTIFICATION (EUT AND AUXILIARIES):

Equipment under test (EUT): IJINUS LSC

IJINUS LSC Serial Number: 296-299



Equipment Under Test



Equipment information:

Equipment information.						
		[902 – 9	28] MHz			
		1				
600kHz						
☑ Integral □ External □ Dedicated					☐ Dedicated	
☐ Yes		☑	No	□ T	emporary for test	
☑ 1			□ 2			
☑ 1			□ 2			
☑ Stand-alone □ Plu		ug-in		□ Combined		
☐ Yes		☑ No				
☑ Continuous d	uty	☐ Intermi	ttent duty	☐ 100% duty		
✓ Produce	ction mo	odel	□ Pro	e-produ	ction model	
Tmin:		☑ -20°C	□ 0°C	;	□ X°C	
Tnom:			20°C			
Tmax:		□ 35°C	□ 55°0	2	☑ 60°C	
☐ AC power sup	ver supply ☐ DC pow		☐ DC power supply		☑ Battery	
Vnom:		□ 120\	//60Hz			
	☐ Yes ☐ Yes ☐ Stand-alon ☐ ☐ Continuous d ☐ Product ☐ Tmin: ☐ Tnom: ☐ Tmax: ☐ AC power sup	☐ Yes ☐ 1 ☐ 1 ☐ 1 ☐ Stand-alone ☐ Yes ☐ Continuous duty ☐ Production months Tmin: Tnom: Tnom: Tmax: ☐ AC power supply	600	☑ Integral ☐ External ☐ Yes ☑ No ☑ 1 ☐ ☑ 1 ☐ ☑ Stand-alone ☐ Plug-in ☐ Yes ☐ ☑ Continuous duty ☐ Intermittent duty ☑ Production model ☐ Production Tmin: ☑ -20°C ☐ 0°C Tnom: 20°C Tmax: ☐ 35°C ☐ 55°C ☐ AC power supply ☐ DC power supply	1	

Antenna Characteristic						
Antenna assembly Gain (dBi) Frequency Band (MHz) Impedance(Ω)						
1 0 902-928 50						

CHANNEL PLAN			
Channel Frequency (MHz)			
Cnom	915		

Modulation Type	Worst Case Modulation
GFSK	

2.2. **RUNNING MODE**

- The EUT is set in the following modes during tests:
 Permanent emission with modulation on a fixed channel in the data rate that produced the highest power
 Permanent reception



2.3. EQUIPMENT LABELLING



2.4. EQUIPMENT MODIFICATION



3. OCCUPIED BANDWIDTH

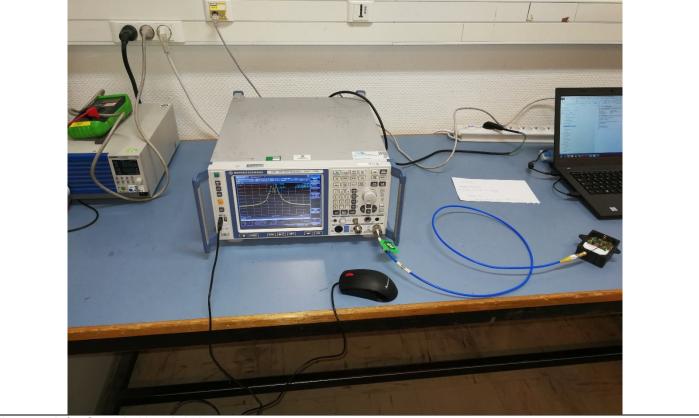
3.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER Date of test : February 20, 2018

Ambient temperature : 23 °C Relative humidity : 41 %

3.2. TEST SETUP

- The Equipment Under Test is installed:
- ☑ On a table
- $\hfill\square$ In an anechoic chamber
- Measurement is performed with a spectrum analyzer in:
- ☑ Conducted Method
- ☐ Radiated Method
- Test Procedure:
- □ RSS-Gen Issue 4 § 6.6
- ☑ ANSI C63.10 § 6.9.2



Photograph for Occupied bandwidth



3.1. **LIMIT**

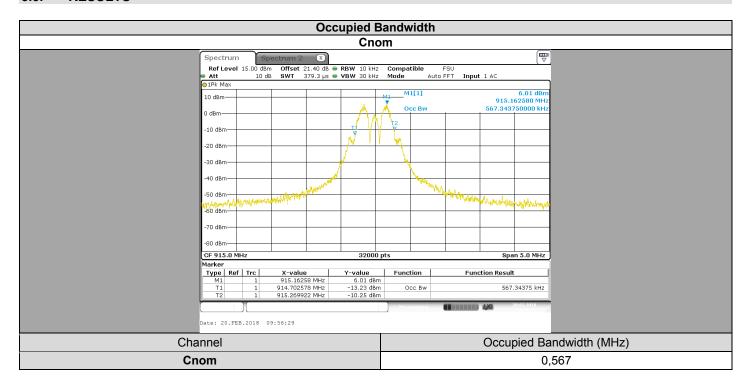
None

3.2. TEST EQUIPMENT LIST

Description	Constructor	Model	N°	Cal. Date	Cal. Due
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/09	2018/09
Cable	-	-	A5329676	2017/10	2018/10

Note: In our quality system, the test equipment calibration due is more & less 2 months

3.3. RESULTS



3.1. CONCLUSION

Occupied Channel Bandwidth measurement performed on the sample of the product IJINUS LSC, SN: 296-299, in configuration and description presented in this test report, show levels compliant to the 47 CFR PART 15.247 limits.



4. **6DB EMISSION BANDWIDTH**

4.1. **TEST CONDITIONS**

Test performed by : Mathieu CERISIER Date of test : February 20, 2018

Ambient temperature : 23 °C : 41 % Relative humidity

4.2. **TEST SETUP**

- The Equipment Under Test is installed:

☑ On a table

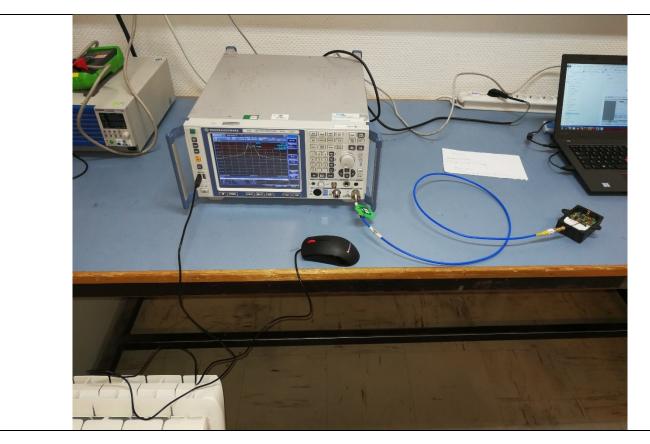
☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

☑ Conducted Method

☐ Radiated Method

- Test Procedure:





Photograph for 6dB emission bandwidth

4.3. LIMIT

The 6dB bandwidth shall be at least 500kHz

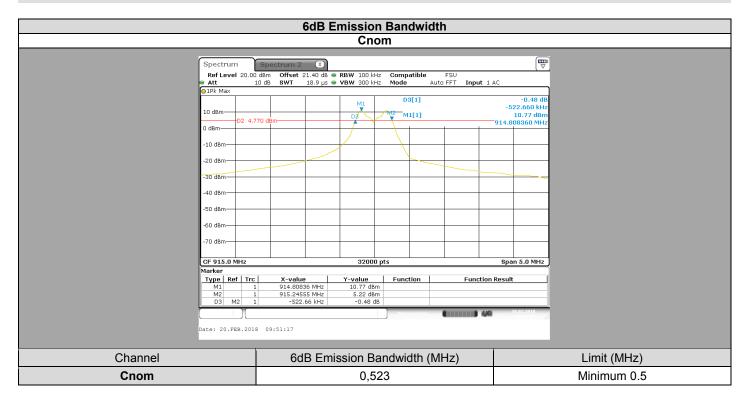
4.4. TEST EQUIPMENT LIST

Description	Constructor	Model	N°	Cal. Date	Cal. Due
EMI	ROHDE & SCHWARZ	ESR	A2642023	2016/09	2018/09
receiver	SCHWARZ	1			
Cable	-	-	A5329676	2017/10	2018/10

Note: In our quality system, the test equipment calibration due is more & less 2 months



4.5. RESULTS



4.6. CONCLUSION

6dB Emission Bandwidth measurement performed on the sample of the product **IJINUS** LSC, SN: **296-299**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247** limits.



5. DUTY CYCLE

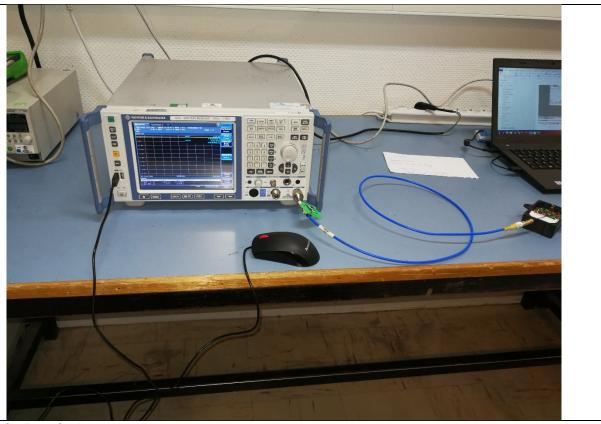
5.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER Date of test : February 20, 2018

Ambient temperature : 23 °C Relative humidity : 41 %

5.2. TEST SETUP

- The Equipment Under Test is installed:
- ☑ On a table
- $\hfill\square$ In an anechoic chamber
- Measurement is performed with a spectrum analyzer in:
- ☑ Conducted Method
- ☐ Radiated Method
- Test Procedure:
- ☑ KDB 558074 D01 DTS Meas Guidance v04 § 6.0 b)



Photograph for Duty Cycle



5.3. LIMIT

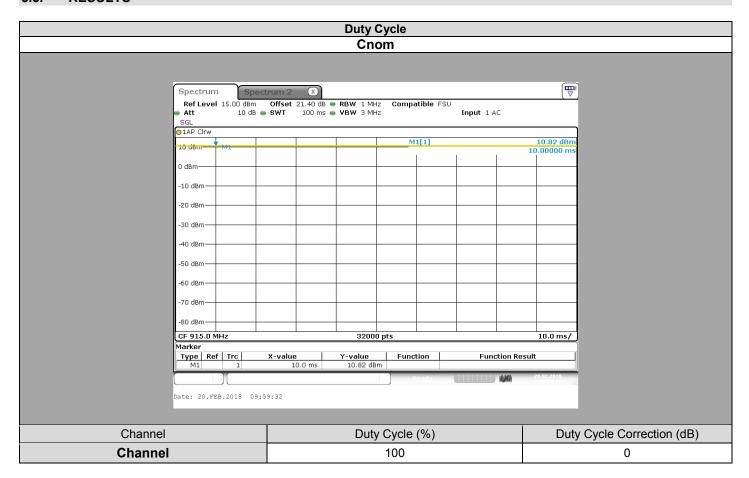
None

5.4. TEST EQUIPMENT LIST

Description	Constructor	Model	N°	Cal. Date	Cal. Due
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/09	2018/09
Cable	-	-	A5329676	2017/10	2018/10

Note: In our quality system, the test equipment calibration due is more & less 2 months

5.5. RESULTS



5.6. CONCLUSION

Duty Cycle measurement performed on the sample of the product IJINUS LSC, SN: 296-299, in configuration and description presented in this test report, show levels **compliant** to the 47 CFR PART 15.247 limits.



6. MAXIMUM CONDUCTED OUTPUT POWER

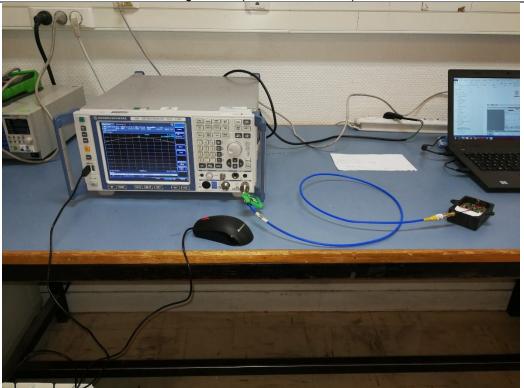
6.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER Date of test : February 20, 2018

Ambient temperature : 23 °C Relative humidity : 41 %

6.2. TEST SETUP

- The Equipment Under Test is installed:
- ☑ On a table
- ☐ In an anechoic chamber
- Measurement is performed with a spectrum analyzer in:
- ☑ Conducted Method
- ☐ Radiated Method
- Test Procedure:
- ☐ KDB 558074 D01 DTS Meas Guidance v04 § 9.1.1 (RBW≥DTS bandwidth)
- ☑ KDB 558074 D01 DTS Meas Guidance v04 § 9.2.2.2 (Method AVGSA-1)
- ☐ KDB 558074 D01 DTS Meas Guidance v04 § 9.2.2.4 (Method AVGSA-2)



Photograph for Maximum Conducted Output Power



6.3. LIMIT

Maximum Conducted Output power: 2400MHz-2483.5MHz: Shall not exceed 30dBm Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi

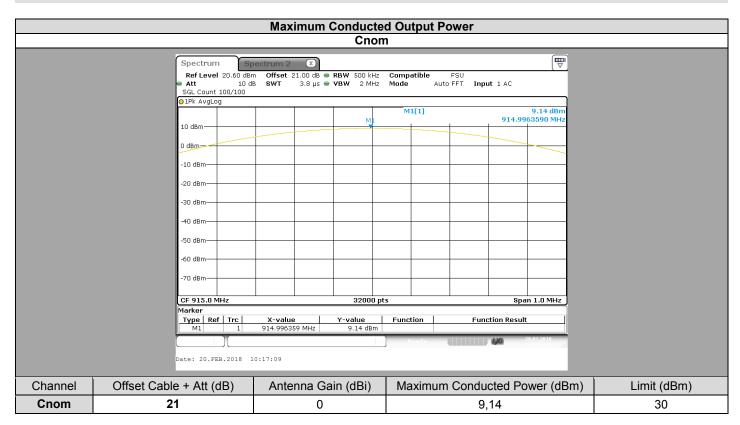
6.4. TEST EQUIPMENT LIST

Description	Constructor	Model	N°	Cal. Date	Cal. Due
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/09	2018/09
Cable	-	-	A5329676	2017/10	2018/10

Note: In our quality system, the test equipment calibration due is more & less 2 months



6.5. RESULTS



6.6. CONCLUSION

Maximum Conducted Output Power measurement performed on the sample of the product IJINUS LSC, SN: 296-299, in configuration and description presented in this test report, show levels compliant to the 47 CFR PART 15.247 limits.



7. **POWER SPECTRAL DENSITY**

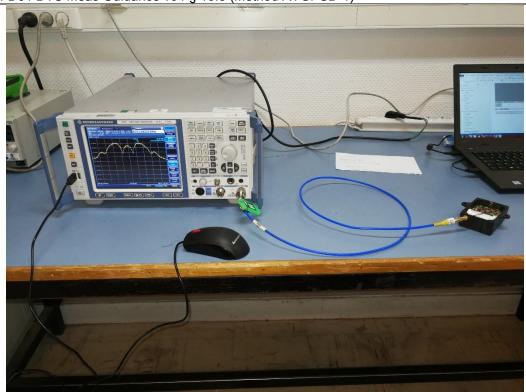
TEST CONDITIONS 7.1.

Test performed by : Mathieu CERISIER Date of test : February 20, 2018

Ambient temperature : 23 °C : 41 % Relative humidity

7.2. **TEST SETUP**

- The Equipment Under Test is installed:
- ☑ On a table
- $\hfill\square$ In an anechoic chamber
- Measurement is performed with a spectrum analyzer in:
- ☑ Conducted Method
- ☐ Radiated Method
- Test Procedure:
- □ KDB 558074 D01 DTS Meas Guidance v04 § 10.2 (Method PKPSD)☑ KDB 558074 D01 DTS Meas Guidance v04 § 10.3 (Method AVGPSD-1)



Photograph for Power Spectral Density



7.3. **LIMIT**

Power Spectral Density: 2400MHz-2483.5MHz: Shall not exceed 8dBm/3kHz Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi

7.4. TEST EQUIPMENT LIST

Description	Constructor	Model	N°	Cal. Date	Cal. Due
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/09	2018/09
Cable	-	-	A5329676	2017/10	2018/10

Note: In our quality system, the test equipment calibration due is more & less 2 months



7.5. RESULTS



7.6. CONCLUSION

Power Spectral Density measurement performed on the sample of the product IJINUS LSC, SN: 296-299, in configuration and description presented in this test report, show levels compliant to the 47 CFR PART 15.247 limits.



8. UNWANTED EMISSIONS INTO NON-RESTRICTED FREQUENCY BANDS AT THE BAND EDGE

8.1. TEST CONDITIONS

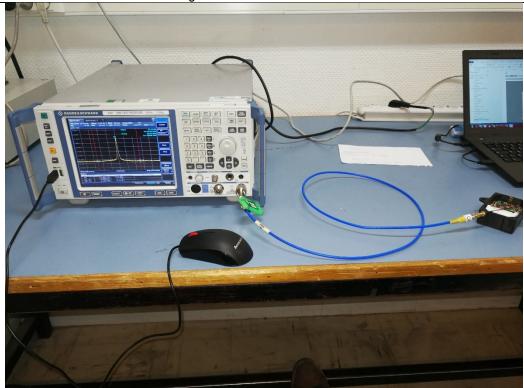
Test performed by : Mathieu CERISIER Date of test : February 20, 2018

Ambient temperature : 23 °C Relative humidity : 41 %

8.2. TEST SETUP

- The Equipment Under Test is installed:
- ☑ On a table
- ☐ In an anechoic chamber
- Measurement is performed with a spectrum analyzer in:
- ☑ Conducted Method
- ☐ Radiated Method
- Test Procedure:

☑ KDB 558074 D01 DTS Meas Guidance v04 § 11



Photograph for Unwanted Emission into non-restricted frequency bands at the band edge



8.3. LIMIT

All Spurious Emissions must be at least 30dB (Average Conducted Power) below the Fundamental Radiator Level at the Band Edge Edge $^\circ$ 2400MHz & 2483,5MHz $^\circ$

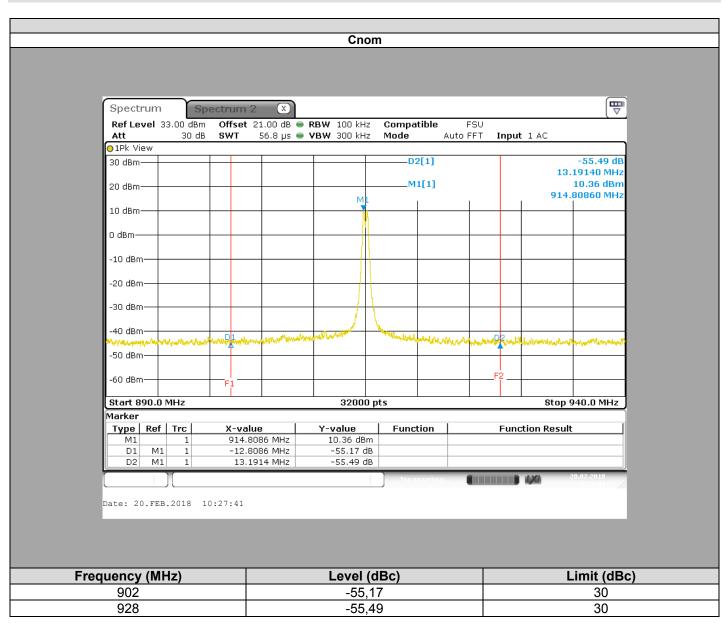
8.4. TEST EQUIPMENT LIST

Description	Constructor	Model	N°	Cal. Date	Cal. Due
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/09	2018/09
Cable	-	-	A5329676	2017/10	2018/10

Note: In our quality system, the test equipment calibration due is more & less 2 months



8.5. RESULTS



8.6. CONCLUSION

Unwanted Emission into non-restricted frequency bands at the band edge measurement performed on the sample of the product **IJINUS** LSC, SN: **296-299**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247** limits.



9. UNWANTED EMISSIONS INTO NON-RESTRICTED FREQUENCY BANDS

9.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER Date of test : February 20, 2018

Ambient temperature : 23 °C Relative humidity : 41 %

9.2. TEST SETUP

- The Equipment Under Test is installed:

☐ On a table

☑ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:
- ☑ Conducted Method
- ☐ Radiated Method
- Test Procedure:

☑ KDB 558074 D01 DTS Meas Guidance v04 § 11



Photograph for Unwanted Emission into non-restricted frequency bands



9.3. LIMIT

All Spurious Emissions must be at least 30dB (Average Conducted Power) below the Fundamental Radiator Level

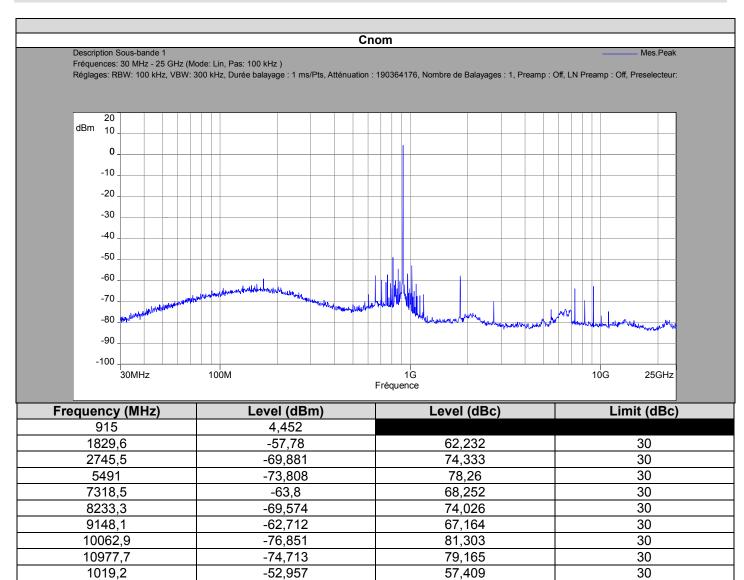
9.4. TEST EQUIPMENT LIST

Description	Constructor	Model	N°	Cal. Date	Cal. Due
EMI receiver	ROHDE & SCHWARZ	ESI40 1088 740K40	A2642010	2016/07	2018/07
Cable	-	-	A5329758	2017/11	2018/11
Filter	WAINWRIGHT	WHKX12-935- 1000-15000-40SS	A7484069	2017/10	2019/10

Note: In our quality system, the test equipment calibration due is more & less 2 months



9.5. RESULTS



9.6. CONCLUSION

811,2

169

Unwanted Emission into non-restricted frequency bands measurement performed on the sample of the product IJINUS LSC, SN: 296-299, in configuration and description presented in this test report, show levels **compliant** to the 47 CFR PART 15.247 limits.

53,415

63,641

-48,963

-59,189

30

30



10. UNWANTED EMISSIONS IN RESTRICTED FREQUENCY BANDS

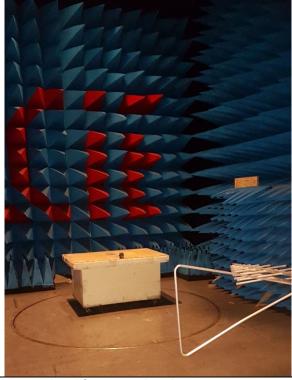
10.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER Date of test : February 20, 2018

Ambient temperature : 23 °C Relative humidity : 41 %

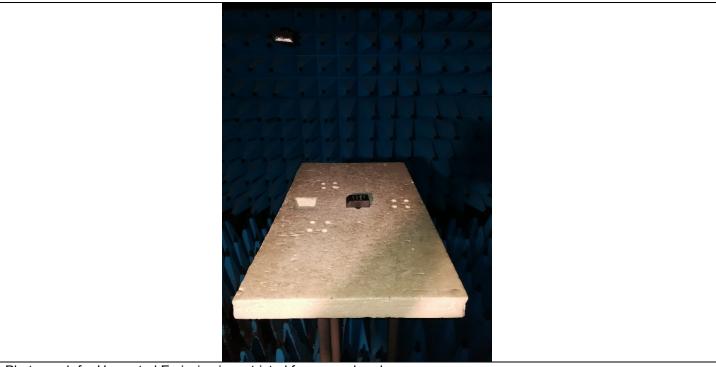
10.2. TEST SETUP

The product has been tested according to ANSI C63.10 (2013). The EUT is placed **ina semi-anechoic chamber**. Distance between measuring antenna and the EUT is **3m**. Test is performed in horizontal (H) and vertical (V) polarization with **bilog** antenna below 1GHz and with a horn antenna above 1GHz. Measurement bandwidth was 120kHz below 1GHz and 1MHz above 1GHz. The level has been maximised by the turntable rotation of 360 degrees range on the 3 axis of EUT. Antenna height search was performed from 1 to 4m. The EUT is place at 1.5m high above 1GHz and at 0.8m high under 1GHz.



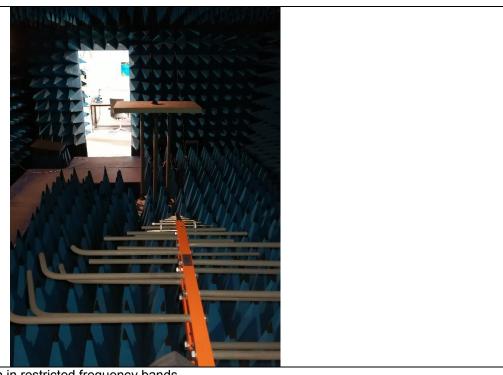
Photograph for Unwanted Emission in restricted frequency bands



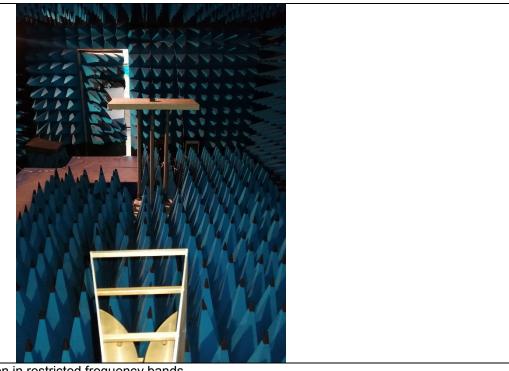


Photograph for Unwanted Emission in restricted frequency bands





Photograph for Unwanted Emission in restricted frequency bands



Photograph for Unwanted Emission in restricted frequency bands



10.3. LIMIT

Limit at 3m:

 $\begin{array}{lll} 30 \text{MHz to } 88 \text{MHz:} & 40 \text{dB}\mu\text{V/m QPeak} \\ 88 \text{MHz to } 216 \text{MHz:} & 43,5 \text{dB}\mu\text{V/m QPeak} \\ 216 \text{MHz to } 960 \text{MHz:} & 46 \text{dB}\mu\text{V/m QPeak} \\ 960 \text{MHz to } 1000 \text{MHz:} & 54 \text{dB}\mu\text{V/m Peak} \\ \text{Above } 1000 \text{MHz:} & 74 \text{dB}\mu\text{V/m Average} \\ \end{array}$

 Limit at 10m:

 30MHz to 88MHz:
 29.5dBμV/m QPeak

 88MHz to 216MHz:
 33dBμV/m QPeak

 216MHz to 960MHz:
 35.5dBμV/m QPeak

 960MHz to 1000MHz:
 43.5dBμV/m QPeak

 Above 1000MHz:
 63.5BμV/m Peak

 43.5BμV/m Average

10.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
Semi anechoic chamber	SIEPEL	-	D3044008	2017/06	2018/06
EMI receiver	ROHDE & SCHWARZ	ESU26	A2642018	2017/10	2018/10
Bilog antenna	SCHWARZBECK	VULB 9160	C2040150	2017/03	2018/03
RF cable	RADIALL; CDI	30990-7M	A5329711	2017/03	2018/03
Cable	CABLES & CONNECTIQUES	3.5MD/CSU528AA/3.5MC/4000	A5329436	2017/03	2018/03
Full anachoic chamber	SIEPEL	-	D3044019	2014/10	2018/10
Preamplifier	LCIE; LCIE	LCIE-ALB-001	A7080073	2016/08	2018/08
Horn antenna	AH SYSTEMS	SAS 571	C2042041	2017/04	2018/04
Logperiodic antenna	AMPLIFIER RESEARCH	ATR80M6G	C2040149	2017/06	2018/06
EMI receiver	ROHDE & SCHWARZ	ESI40 1088 740K40	A2642010	2017/07	2018/07
cable	Télédyne	084-0505-1MTR	A5329757	2017/03	2018/03
cable	Télédyne	084-0555-3MTR	A5329760	2017/03	2018/03
cable	Télédyne	084-555-1.5MTR	A5329759	2017/03	2018/03
Filter	WAINWRIGHT	WHKX12-935-1000-15000- 40SS	A7484069	2017/10	2019 /10

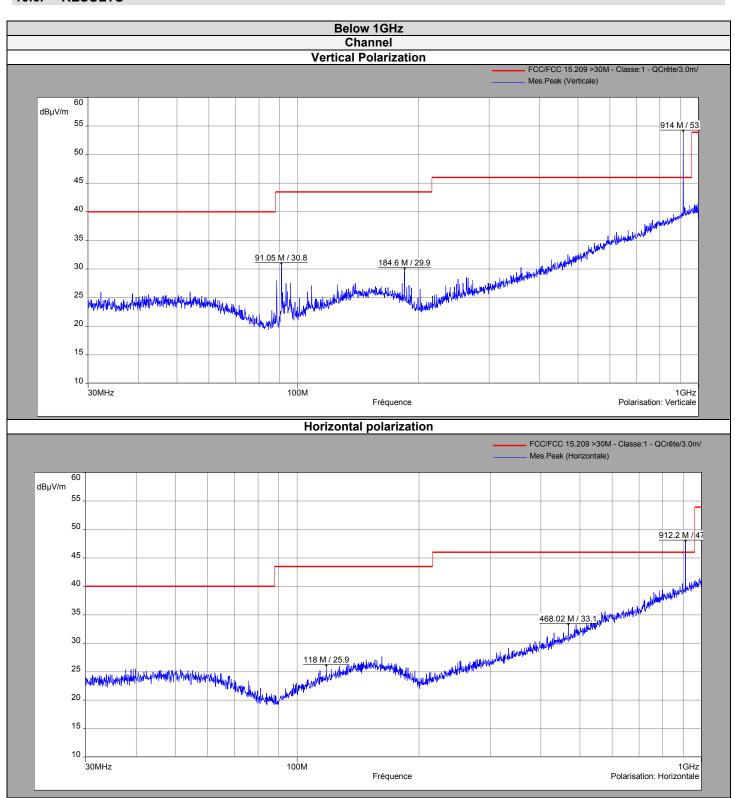
Note: In our quality system, the test equipment calibration due is more & less 2 months

10.5.	DIVER	GENCE, ADDITION OR SUPPRESSION ON THE TEST SPECIFICATION
✓ None	:	□ Divergence:

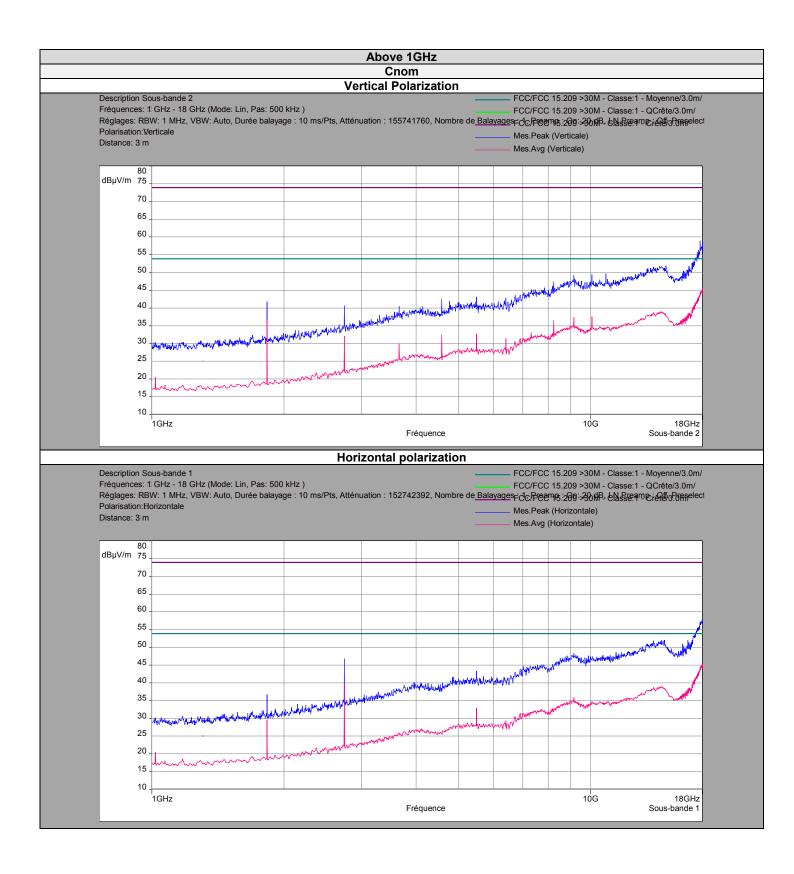
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10.6. RESULTS









Below 1GHz							
Polarization	Frequency (MHz)	Peak Level (dBµV/m)	QPeak Level (dBµV/m)	Limit (dBµV/m)	Margin (dBμV/m)		
Vertical	91.05	30.08	-	43.5	13.42		
Horizontal	118	25.9	-	43.5	17.6		
Vertical	184.6	24.9	-	43.5	18.6		
Horizontal	462.02	33.1	-	46	12.9		

Above 1GHz								
Cnom								
Polarization	Frequency (MHz)	Average Level (dBµV/m)	Average Level + Duty Cycle Factor (dBµV/m)	Average Limit (dBµV/m)	Average Margin Level (dBµV/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Peak Margin Level (dBµV/m)
Verticale	1830	36,666	36,666	54	17,334	41,79	74	32,21
Verticale	2745,5	32,126	32,126	54	21,874	40,679	74	33,321
Verticale	3660,5	29,996	29,996	54	24,004	40,513	74	33,487
Verticale	4574	32,542	32,542	54	21,458	42,588	74	31,412
Verticale	5491	32,69	32,69	54	21,31	43,141	74	30,859
Verticale	6403,5	31,489	31,489	54	22,511	42,895	74	31,105
Verticale	8236,5	36,558	36,558	54	17,442	47,365	74	26,635
Verticale	10067	37,563	37,563	54	16,437	49,451	74	24,549
Horizontale	1830	29,672	29,672	54	24,328	36,729	74	37,271
Horizontale	2745,5	39,701	39,701	54	14,299	46,795	74	27,205
Horizontale	5491	32,849	32,849	54	21,151	43,396	74	30,604
Horizontale	13920	38,734	38,734	54	15,266	51,894	74	22,106

10.7. CONCLUSION

Unwanted Emission in restricted frequency bands measurement performed on the sample of the product **IJINUS** LSC, SN: **296-299**, in configuration and description presented in this test report, show levels **compliant** to the 47 CFR PART 15.247 limits.



11. UNCERTAINTIES CHART

47 CFR Part 15.209 & 15.207 Kind of test	Wide uncertainty laboratory (k=2) ±x(dB) / (Hz)/ ms	Uncertainty limit
Measurement of conducted disturbances in voltage on the AC power port (9 kHz – 150 kHz)	2,67	3.8
Measurement of conducted disturbances in voltage on the AC power port (150 kHz - 30 MHz)	2,67	3.4
Measurement of conducted disturbances in voltage on the telecommunication port. (AAN)	3,67	5.0
Measurement of conducted disturbances in current (current clamp)	2,73	2.9
Measurement of disturbance power	2,67	4.5
Measurement of radiated magnetic field from 10kHz to 30MHz in SAC V01	4,48	1
Measurement of radiated magnetic field from 10kHz to 30MHz in SAC C01	4,48	1
Measurement of radiated electric field from 30 to 1000MHz in horizontal position on the OATS (Ecuelles)	4,88	6.3
Measurement of radiated electric field from 1 to 18GHz on the Ecuelles site	5.16	1
Measurement of radiated electric field from 30 to 1000MHz in vertical position on the OATS (Ecuelles)	4,99	6.3
Measurement of radiated electric field from 30 to 1000MHz in horizontal position in SAC C01	5,08	6.3
Measurement of radiated electric field from 30 to 1000MHz in vertical position in SAC C01	5,16	6.3
Measurement of radiated electric field from 30 to 1000MHz in horizontal position in SAC V01	5,08	6.3
Measurement of radiated electric field from 30 to 1000MHz in vertical position in SAC V01	5,15	6.3
Measurement of radiated electric field from 1 to 6 GHz C01	5,1	5.2
Measurement of radiated electric field from 1 to 6 GHz V01	4,85	5.2
Measurement of radiated magnetic field from 10kHz to 30MHz on the OATS (Ecuelles)	4,48	1

The uncertainty values calculated by the laboratory are lower than limit uncertainty values defined by the CISPR. The conformity of the sample is directly established by the applicable limits values. This table includes all uncertainties maximum feasible for testing in the laboratory, whether or not made in this report