



Test report issued under the responsibility of:

EMITECH MONTPELLIER laboratory

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RF EXPOSURE TEST REPORT

KDB 447498 D01 V06

RSS-102 - Issue 6, December 2023

Company: **INSIGHT SIP**
Address.....: 400 AVENUE ROUMANILLE
GREENSIDE BAT 7
06906 SOPHIA-ANTIPOLIS
FRANCE

Test item description: **Wi-Fi, BLE, Thread, module**
Trade Mark: INSIGHT SIP
Manufacturer.....: INSIGHT SIP
Model/Type reference.....: ISP5261
FCC ID.....: 2AAQS-ISP5261
IC: 11306A-ISP5261
Ratings.....: 3.14 VDC to 3.46 VDC

Testing Laboratory: **EMITECH MONTPELLIER laboratory**
Address.....: 145 rue de Massacan
34740 VENDARGUES
FRANCE

Report Reference No.....: **RE-EVE-24F158-1A**
Test procedure: FCC IC Certification
Diffusion.....: Mr FATTOUH
Applicant's name: INSIGHT SIP
Date of issue.....: January 22, 2026
Total number of pages.....: 11
Revision: 0
Compiled by.....: Morgan PATEY
Approved by (+ signature): David MONTAULON (Laboratory Manager)

*Duplication of this test report is only permitted for an integral photographic facsimile. It includes the number of pages referenced here above.
This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of
the whole manufactured products of the tested sample.*

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REVISION HISTORY:

Revision	Date	Modified pages	Modifications
0	January 22, 2026	/	Creation

1. GENERAL INFORMATION

This document submits the results of RF exposure performed on the equipment **Wi-Fi, BLE, Thread, module ISP5261** (denominated hereafter E.U.T.: equipment under test) according to document(s) listed in §2 of this test report.

TESTING PROCEDURE AND TESTING LOCATION:					
Testing Location		EMITECH MONTPELLIER laboratory			
Address.		145 rue de Massacan 34740 VENDARGUES FRANCE			
Test procedure.		FCC IC Certification			
Tested by		Morgan PATEY			
Test supervisor		None			
Date of receipt of test item		N/A			
Date (s) of performance of tests		From February 06 th to 26 th of 2025			
APPLICANT'S GENERAL INFORMATION:					
Company name		INSIGHT SIP			
Company address.		400 AVENUE ROUMANILLE GREENSIDE BAT 7 06906 SOPHIA-ANTIPOLIS FRANCE			
Person(s) present during the tests.		No representative for company attended the tests.			
Responsible.		Mr FATTOUH			
GENERAL REMARKS:					
The information in <i>italics</i> is declared by the manufacturer and is under his responsibility The test results presented in this report relate only to the object tested. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report the decimal separator is point.					
POSSIBLE TEST CASE VERDICTS:					
Test case does not apply to the test object. :		N/A			
Test case not performed.....		N/P			
Test object does meet the requirement.....		P (Pass)			
Test object does not meet the requirement :		F (Fail)			
DEFINITIONS AND ABBREVIATIONS:					
E.U.T.	Equipment Under Test	AE	Ancillary Equipment	Pk	Peak detector
RBW	Resolution BandWidth	VBW	Video BandWidth	QP	Quasi-peak detector
FSOATS	Free Space Open Area Test Site	FAR	Full Anechoic Room	Av	Average detector
VP	Vertical Polarization	HP	Horizontal Polarization	RMS	Root Mean Square
RF	Radio Frequency	N.T.R	Nothing To Report	N/C	Not Communicated
SAC	Semi Anechoic Chamber				

2. REFERENCE DOCUMENT(S)

NORMATIVE REFERENCES:

The following referenced documents are necessary for the application of the present test report.

FCC 47 CFR PART 15

Code of federal regulations – Title 47 telecommunication

Part 15- Radio frequency devices

KDB 447498 D01 v06

RF exposure procedures and equipment authorization policies for mobile and portable devices.

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Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

RR-EVE-24F158-1A Ed.0, RR-EVE-24F158-2A Ed.0, RR-EVE-24F158-3A Ed.0, RR-EVE-24F158-4A Ed.0 & RRA-EMI ESS24F158INS-01Av0

Radio Test Reports Emitech.

Although the product standard uses obsolete technical standards, the latest versions of standards achievable by the laboratory will be used for testing.

INFORMATIVE REFERENCES:

The following referenced documents are not necessary for the application of the present test report but they assist the user with regard to a particular subject area.

3. EQUIPMENT TECHNICAL DESCRIPTION

3.1. Test Conditions

Test item description. : Wi-Fi, BLE, Thread, module
Model/Type reference..... : ISP5261
Trade Mark. : INSIGHT SIP
Serial number (S/N)..... : Not communicated
Part number (P/N). : Not communicated
Software version..... : N/A
Firmware version. : *Not communicated*
Type of sample. : Pre-serial
Function(s)..... : Wi-Fi, Bluetooth Low Energy, and Thread, module with integrated bi-band antenna
Manufacturer name. : INSIGHT SIP
Address. : 400 AVENUE ROUMANILLE
GREENSIDE BAT 7
06906 SOPHIA-ANTIPOLIS
FRANCE

General product information:
N/A

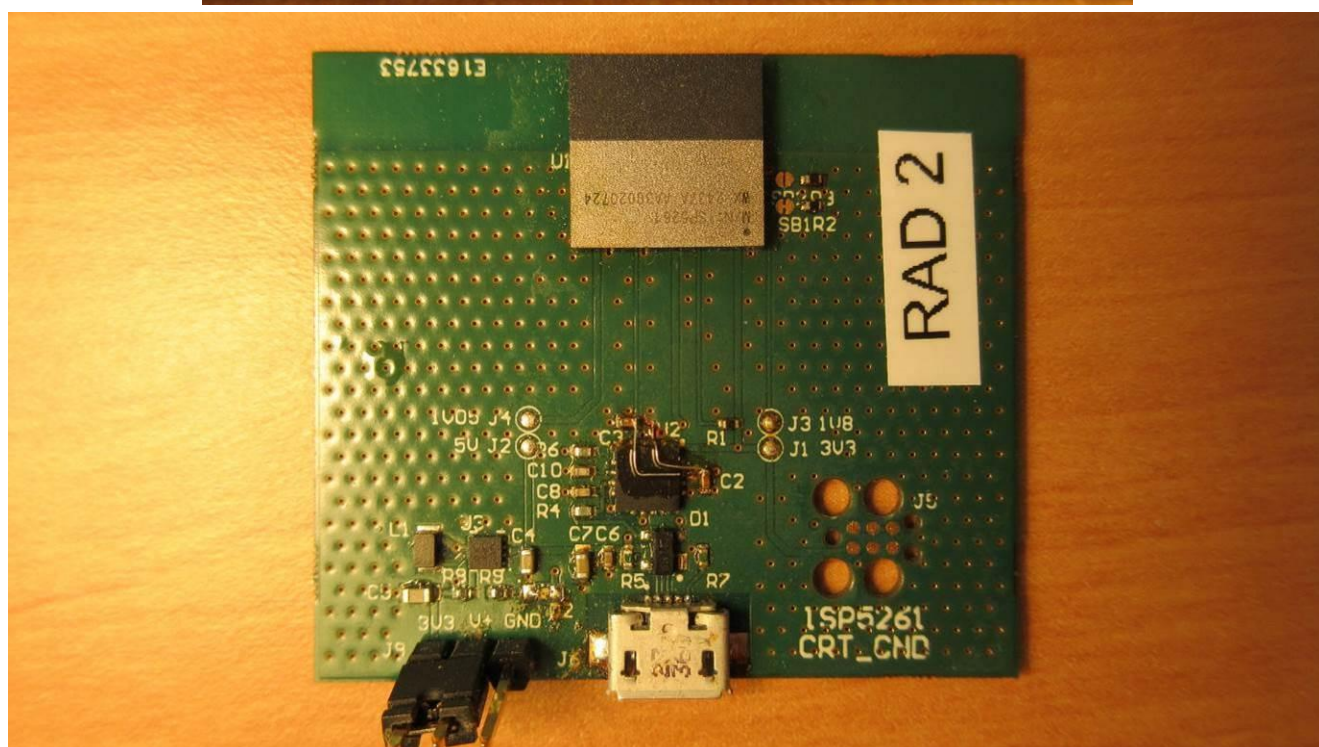
3.2. E.U.T. Marking plate

No marking plate during tests

3.3. E.U.T. Modification(s)

No modification

3.4.E.U.T. General view



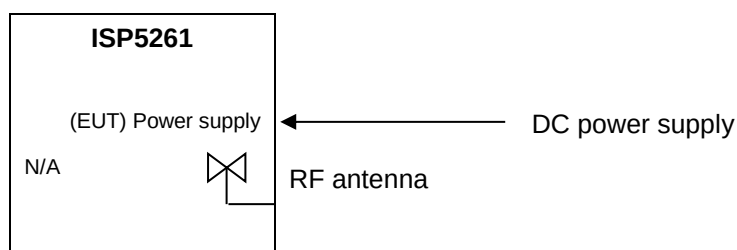
3.5.E.U.T. Mechanical and Electrical Design

Power supply. : 3.3 VDC
Power supply range..... : 3.14 VDC to 3.46 VDC
Power type..... : DC
Power (W)..... : 2 (max)
Nominal current (A). : 0.6 (max)
Dimensions (L x W x H) (m). : 0.012 x 0.012 x 0.0018
Weight (kg). : < 0.01
Temperature range (°C). : -40 to +85
Ground bounding strap..... : No

Comments:

N/A

3.6.E.U.T. Input/Output ports



PORT	NAME	TYPE	LENGTH	CABLE TYPE	COMMENTS
0	Main frame	N/A	N/A	N/A	RF module
1	DC power supply	DC	N/A	N/A	3.3 VDC
2	RF antenna	RF	N/A	N/A	2.4 GHz

AC/DC : AC/DC Converter port AC..... : Alternative current port DC..... : Direct current port
I/O : Input or Output port TP : Telecommunication port RF : Radio frequency port
N/E : Non Electrical port

3.7. Supporting Equipment Used During Test

Sample subject to the tests was tested with following equipment.

PRODUCT TYPE	MANUFACTURER	MODEL	N°EMITECH / COMMENTS
Laptop	ASUS	S301L	Used to power and program the EUT operation modes

LAPTOP (AE)



3.8. EUT Radio Specifications

a) GENERAL INFORMATIONS	
According to manufacturer's declarations :	
EUT type.....	Transceiver
Technology	BLE, Thread, Wi-Fi 2.4GHz and 5GHz
Environmental profile.....	Data transmissions
Temperature range	-40°C to +85°C
Antenna type	Integrated
Antenna Gain.....	-0.5dBi at 2.45 GHz and 2.15 dBi at 5.5 GHz
Comments:	
N/A	
b) TRANSMITTER PARAMETERS (Tx) - BLE	
Frequency bands.....	2400 MHz to 2483.5 MHz
RF Power.....	< 10 dBm
Number of channels / Separation.....	40 (37 + 3)
Modulation type	GFSK
Duty cycle	Not communicated
Tested frequency.....	Low channel : 2402 MHz Mid channel : 2440 MHz High channel : 2480 MHz
c) TRANSMITTER PARAMETERS (Tx) - THREAD	
Frequency bands.....	2400 MHz to 2483.5 MHz
RF Power.....	< 10 dBm
Number of channels / Separation.....	16
Modulation type	802.15.4
Duty cycle	Not communicated
Tested frequency.....	Low channel : 2405 MHz Mid channel : 2440 MHz High channel : 2480 MHz
d) TRANSMITTER PARAMETERS (Tx) – Wi-Fi 2.4 GHz	
Frequency bands.....	2400 MHz to 2483.5 MHz
RF Power.....	> 10 dBm
Number of channels / Separation.....	11
Modulation type	802.11 b / g / n
Duty cycle	Not communicated
Tested frequency.....	Low channel : 2412 MHz Mid channel : 2437 MHz High channel : 2462 MHz

Frequency bands.....	: 5150 MHz to 5850 MHz
RF Power.....	: 20 dBm
Number of channels / Separation.....	: 24 / 20 MHz
Modulation type	: BPSK
Duty cycle	: Not communicated
Tested frequency.....	: Channel 36: 5180 MHz Channel 40: 5200 MHz Channel 48: 5240 MHz Channel 52: 5260 MHz Channel 60: 5300 MHz Channel 64: 5320 MHz Channel 100: 5500 MHz Channel 124: 5620 MHz Channel 140: 5700 MHz Channel 149: 5745 MHz Channel 157: 5785 MHz Channel 165: 5825 MHz

4. RF EXPOSURE

For USA

In accordance with KDB 447498 D04 Appendix B.3 and FCC Part 2.1091:

$$ERP_{20cm}(mW) = \begin{cases} 2040f & \text{for } 0.3GHz \leq f < 1.5GHz \\ 3060 & \text{for } 1.5GHz \leq f \leq 6GHz \end{cases}$$

Thanks to test report in §2 of this document :

Configuration	Frequency (MHz)	Max EIRP (dBm)	Max ERP (W)	Limit (W)
BLE	2440	2.47	0.00	3.06
Thread	2440	13.10	0.03	3.06
WI-FI 2.4 GHz mode 802.11g/n	2437	25.20	0.54	3.06
WI-FI 5 GHz mode 802.11n	5200	18.43	0.11	3.06

It is therefore not necessary to carry out other specific measurements to assess human exposure to radiofrequencies when the product is used more than 20 cm from the human body.

For Canada

In accordance with RSS-102, Issue 6, Section 6.6., the maximum EIRP must be lower than $1,31 \times 10^{-2} f^{0,6834}$

Thanks to test report in §2 of this document :

Configuration	Frequency (MHz)	Max EIRP (dBm)	Max EIRP (W)	Limit (W)
BLE	2440	2.47	0.00	2.71
Thread	2440	13.10	0.02	2.71
WI-FI 2.4 GHz mode 802.11g/n	2437	25.20	0.33	2.70
WI-FI 5 GHz mode 802.11n	5200	18.43	0.07	4.54

It is therefore not necessary to carry out measurements to assess human exposure to radiofrequencies when the product is used more than 20 cm from the human body.

End of test report