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Template : November 10th, 2022

TEST REPORT

N°: 14198293-776033-C (FILE#3899006)

VERSION: 02

Subject Electromagnetic compatibility tests according to the standards:
FCC CFR 47 Part 15, Subpart B
ANSI C63.4 / ANSI C63.4a
ICES-003

Issued to SRETT
121 rue d'aguesseau
92100 - BOULOGNE BILLANCOURT

Apparatus under test

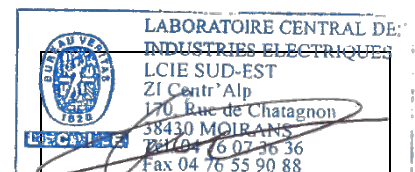
Product Wireless pressure and temperature sensors
Trade mark BumbleBee
Manufacturer SRETT
Family range (see annex 1) P*****32* / 1001910 / T***32**** / 1001920
Model under test 1001910
Serial number 070049 and 070070
FCCID RDT-1003135
IC NC

Conclusion See Test Program chapter

Test date February 10, 2023
Test location LCIE Grenoble
FCC Test site FR0008 - 197516
ISED Test site FR0008 - 6500A
Sample receipt date November 28, 2022
Composition of document 24 pages
Document issued on February 14, 2023

Written by :
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Tests operator

Approved by :
Nathalie BUGANZA
Technical manager



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PUBLICATION HISTORY

Version	Date	Author	Modification
01	February 06, 2023	Majid MOURZAGH	Creation of the document
02	February 14, 2023	Majid MOURZAGH	Measure comply with the requirements of C63.4 for measurements above 1 GHz

Each new edition of this test report replaces and cancels the previous edition. The control of the old editions of report is under responsibility of client.



SUMMARY

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1. TEST PROGRAM

Standard:

- ✓ FCC Part 15, Subpart B (Digital Devices)
- ✓ ANSI C63.4 (2014) / ANSI C63.4a (2017)
- ✓ ICES-003 (2020)

1.1.1. Requirements for disturbance emissions – Class A

EMISSION TEST	LIMITS			RESULTS (Comments)
Limits for conducted disturbance 150kHz-30MHz FCC §15.107 / ICES-003	Access: AC power			NA
	Frequency	Quasi-peak	Average	
	150-500kHz	79 dBµV	66 dBµV	
	0.5-30MHz	73 dBµV	60 dBµV	
Radiated emissions 30MHz-1GHz FCC §15.109	Access: Enclosure port of ancillary equipment			PASS
	Frequency	Quasi-peak @3m		
	30MHz-88MHz	49.5 dBµV/m		
	88MHz-216MHz	53.9 dBµV/m		
	216MHz-960MHz	56.9 dBµV/m		
	Above 960MHz	60.0 dBµV/m		
Radiated emissions 30MHz-1GHz ICES-003	Access: Enclosure port of ancillary equipment			PASS
	Frequency	Quasi-peak @3m		
	30MHz-88MHz	50.0 dBµV/m		
	88MHz-216MHz	54.0 dBµV/m		
	216MHz-230MHz	56.9 dBµV/m		
	230MHz-960MHz	57.0 dBµV/m		
	Above 960MHz	60.0 dBµV/m		
Radiated emissions 1GHz-25GHz* FCC §15.109 / ICES-003	Access: Enclosure port of ancillary equipment			PASS
	Frequency	Peak @3m	Average @3m	
	1- 25GHz	80.0 dBµV/m	60.0 dBµV/m	

NA: Not Applicable / NP: Not Performed, not requested by the customer (It cannot be taken into account for the declaration of conformity)

°: Divergence, the last version is used to make it possible to test the product with the standard which describes the current state of the art and thus to answer as well as possible his environment of final use.

*§15.33: The highest internal source of a testing device is defined like more the highest frequency generated or used in the testing device or on which the testing device works or agrees.

- If the highest frequency of the internal sources of the testing device is lower than 108 MHz, measurement must be only performed until 1GHz.

- If the highest frequency of the internal sources of the testing device ranges between 108 MHz and 500 MHz, measurement must be only performed until 2GHz.

- If the highest frequency of the internal sources of the testing device ranges between 500 MHz and 1 GHz, measurement must be only performed until 5GHz.

If the highest frequency of the internal sources of the testing device is above 1 GHz, measurement must be only performed until 5 times the highest frequency or 40 GHz, while taking smallest of both.

Special condition for intentional radiator:

- For a composite system comprised of a digital device using a clock frequency of 1 GHz as the highest frequency for the digital logic and an intentional radiator operating at 2.4 GHz, the composite is required to be investigated to the upper frequency of 24 GHz (in this case, 10 times the intentional radiator frequency is the higher frequency).
- For a composite system comprised of a digital device using a clock frequency of 2 GHz as the highest frequency for the digital logic and an intentional radiator operating at 913 MHz, the composite is required to be investigated to the upper frequency of 10 GHz (in this case, 5 times the unintentional radiator clock frequency is the higher frequency).

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

2.1. INFORMATIONS

Tests are performed on the most complete product BumbleBee 1001910, SN: 070049 an 070070 .
See Table on chapter annex 1 for difference between products.

2.2. HARDWARE IDENTIFICATION (EUT AND AUXILIARIES)

Equipment under test (EUT):

Model under test :	1001910
Serial Number:	070049 and 070070
	
Type :	Table-Top

Power supply:

During all the tests, EUT is supplied by V_{nom} : **3.6Vdc**

For measurement with different voltage, it will be presented in test method.

Name	Type	Rating	Reference / Sn	Comments
Supply1	Battery	3.6V	/	/

NC: Not communicated by provider

**Inputs/outputs - Cable:**

Access	Type	Length used (m)	Declared <3m	Shielded	Under test	Comments
Antenna	Type N	/	No	No	Yes	SOLEXY : ANH52

NC: Not communicated by provider

Auxiliary equipment used during test:

Type	Reference	Sn	Comments
Laptop	LENOVO L460	/	/

2.3. EUT CONFIGURATION

Hardware information			
Highest internal frequency (PLL, Quartz, Clock, Microprocessor...):	F _{Highest} :	2500	MHz
Software BLE	V. :	RealTerm V 2.0.0.70	
Software LoRa	V. :	BGTOOL SDK build: 2.4.2-2500	

Running mode n°1:

Setup:

Equipment model **1001910** SN : 070070 is powered ON and send RF BLE in continuous on Cmin

Running mode n°2:

Setup:

Equipment model **1001910** SN: 0700049 is powered ON and send RF LoRa in continuous on Cmin

2.4. EQUIPMENT MODIFICATIONS DURING THE TESTS

None



2.5. FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follow:

$$FS = RA + AF + CF - AG$$

Where
FS = Field Strength
RA = Receiver Amplitude
AF = Antenna Factor
CF = Cable Factor
AG = Amplifier Gain

2.6. TEST DISTANCE EXTRAPOLATION – FCC/ISED

The field strength is extrapolated to the new measurement distance using formula from FCC Part15.31 (f) and §6.5-6.6 RSS-GEN:

Below 30MHz,

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

Above 30MHz,

$$FS_{\text{limit}} = FS_{\text{max}} - 20 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

Where:

FS_{limit} is the calculation of field strength at the limit distance, expressed in dBμV/m

FS_{max} is the measured field strength, expressed in dBμV/m

d_{measure} is the distance of the measurement point from the EUT

d_{limit} is the reference limit distance

2.7. CALIBRATION DATE

The calibration intervals are extended at 12+2 months. This extended interval is based on the fact that there is sufficient calibration data to statistically establish a trend or based on experience of use of the test equipment to assure good measurement results for a longer period

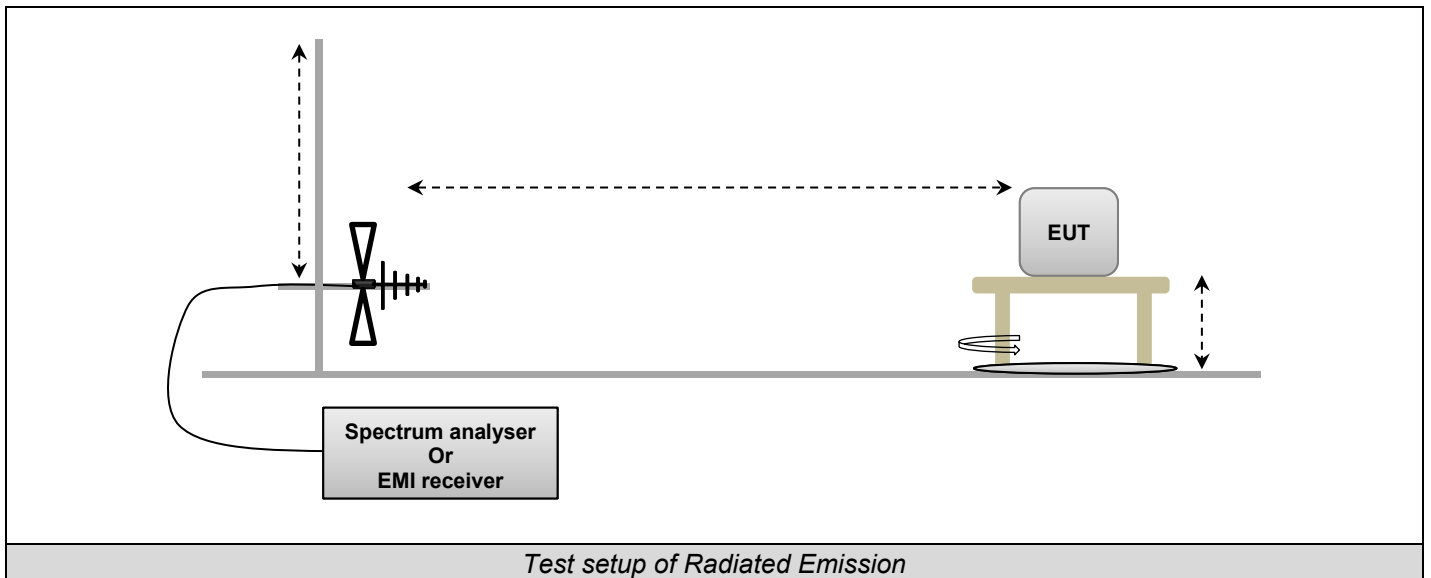
3. MEASUREMENT OF RADIATED EMISSION

3.1. TEST CONDITIONS

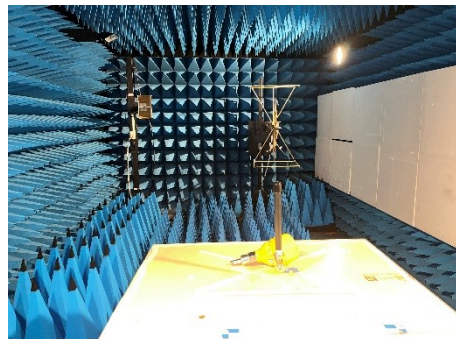
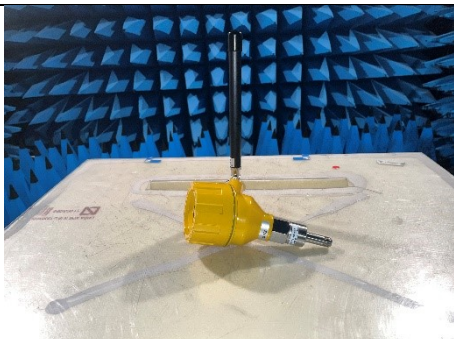
Test performed by : Majid MOURZAGH
 Date of test : February 1, 2023
 Ambient temperature : 21 °C
 Relative humidity : 40 %

3.2. TEST SETUP

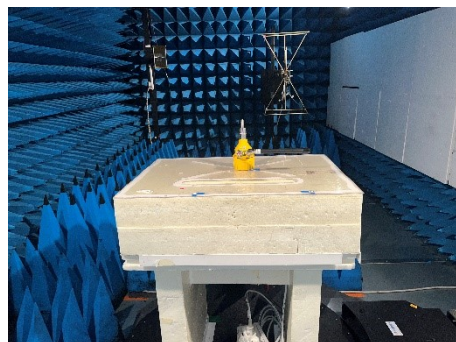
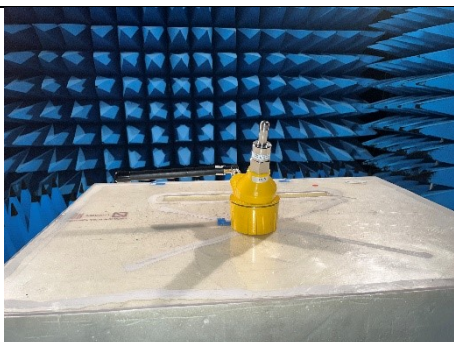
The EUT and auxiliaries are set 80cm above the ground on the non-conducting table (Table-top equipment).
 The EUT is powered by V_{nom} .



Same setup is used in semi anechoic chamber during pre-characterization, with a distance of 3m between EUT and antenna.



Axis XY on FAR test setup set at 80cm



Axis Z on FAR test setup set at 80cm

Photo in anechoic chamber



Axis XY on OATS



Axis Z on OATS

Photo on OATS



3.3. TEST METHOD

3.3.1. 30MHz –1GHz

Pre-qualification measurement

A pre-scan of all the setup has been performed in a 3 meters semi-anechoic chamber. Test is performed with antenna centered on EUT in horizontal (H) and vertical (V) polarization, continuous linear turntable azimuth search was performed with 360 degrees range. Measurements are performed on all axis of EUT used in normal configuration. The pre-characterization graphs are obtained in PEAK detection.

Qualification

The installation of EUT is identical than for pre-qualification measurements on an Open Area Test Site with a 10 meters distance between EUT and antenna. In this case, it corrected according to requirements of 15.209.e), $M@3m = M@10m + 10.5dB$. Test is performed in horizontal (H) and vertical (V) polarization and the height antenna is varied from 1m to 4m. Continuous linear turntable azimuth search was performed with 360 degrees range. Measurements are performed on all axis of EUT used in normal configuration. A summary of the worst case emissions found in all test configurations and modes is shown.

3.3.2. 1GHz – 25GHz:

Pre-qualification measurement

A pre-scan of all the setup has been performed in a 3 meters full anechoic chamber. Test is performed with antenna centered on EUT in horizontal (H) and vertical (V) polarization, continuous linear turntable azimuth search was performed with 360 degrees range. Measurements are performed on all axis of EUT used in normal configuration. The pre-characterization graphs are obtained in PEAK and AVERAGE detection.

Qualification

The installation of EUT is identical for pre-characterization measurements. Test is performed in horizontal (H) and vertical (V) polarization and the height antenna is fixed and centered on the EUT, EUT smaller than the beamwidth of the measurement antenna.

Minimal beamwidth of the measurement antenna used: ETS3115 / $w@3m=2.1m < 14GHz$ / $w@3m=0.9m < 18GHz$

Continuous linear turntable azimuth search was performed with 360 degrees range. Measurements are performed on all axis of EUT used in normal configuration. A summary of the worst case emissions found in all test configurations and modes is shown.

3.4. TEST EQUIPMENT LIST

TEST EQUIPMENT USED					
Description	Manufacturer	Model	Identifier	Cal_Date	Cal_Due
BAT EMC	NEXIO	v3.21.0.32	L1000115		
Amplifier 9kHz - 40GHz	LCIE SUD EST	—	A7102082	05/22	05/24
Antenna Bi-log	AH System	SAS-521-7	C2040180	02/21	02/23
Antenna horn 18GHz	EMCO	3115	C2042029	03/22	03/25
CABLE	TELEDYNE	R82-0404-8M	A5330008	02/22	02/24
Cable 0.75m	-	18GHz	A5329900	08/22	08/24
Cable 1m	HUBER & SUHNER	18GHz	A5329705	08/21	08/23
Cable 1m	HUBER & SUHNER	18GHz	A5329706	08/21	08/23
Cable SMA 40GHz 40cm	WITHWAVE	W101-SM1-0.4M	A5329979	04/21	04/23
Comb EMR HF	YORK	CGE01	A3169114		
CONTROLLER	INNCO	CO3000	D3044034		
Emission Cable (SMA 1m)	TELEDYNE	26GHz	A5329874	08/22	08/23
Emission Cable (SMA 3.3m)	TELEDYNE	26GHz	A5329875	08/22	08/23
Filter Matrice	LCIE SUD EST	Combined filters	A7484078	09/20	01/23
Multimeter - CEM	FLUKE	189	A1240171	09/21	09/23
Rehausse Table C3	LCIE	—	F2000511		
Rehausse Table C3	LCIE	—	F2000507		
Semi-Anechoic chamber #3 (BF)	SIEPEL	—	D3044017_BF	04/22	04/25
Semi-Anechoic chamber #3 (VSWR)	SIEPEL	—	D3044017_VSWR	04/22	04/25
Spectrum analyzer	ROHDE & SCHWARZ	FSU 26	A4060058	09/21	09/23
Table C3	LCIE	—	F2000461		
Thermo-hygrometer (PM1/2/3)	KIMO	HQ 210	B4206022	01/21	01/23
TILT	INNCO	TILT	D3044033		
Turntable chamber (Cage#3)	ETS Lingren	Model 2165	F2000371		
Turntable controller (Cage#3)	ETS Lingren	Model 2090	F2000444		
Antenna horn 40GHz	SCHWARZBECK	BBHA 9170	C2042028	06/22	06/25
SMA 1.5m	SUCOFLEX	18GHz	A5329864	09/22	09/23
Spectrum analyzer	ROHDE & SCHWARZ	FSV 40	A4060059	11/21	11/23

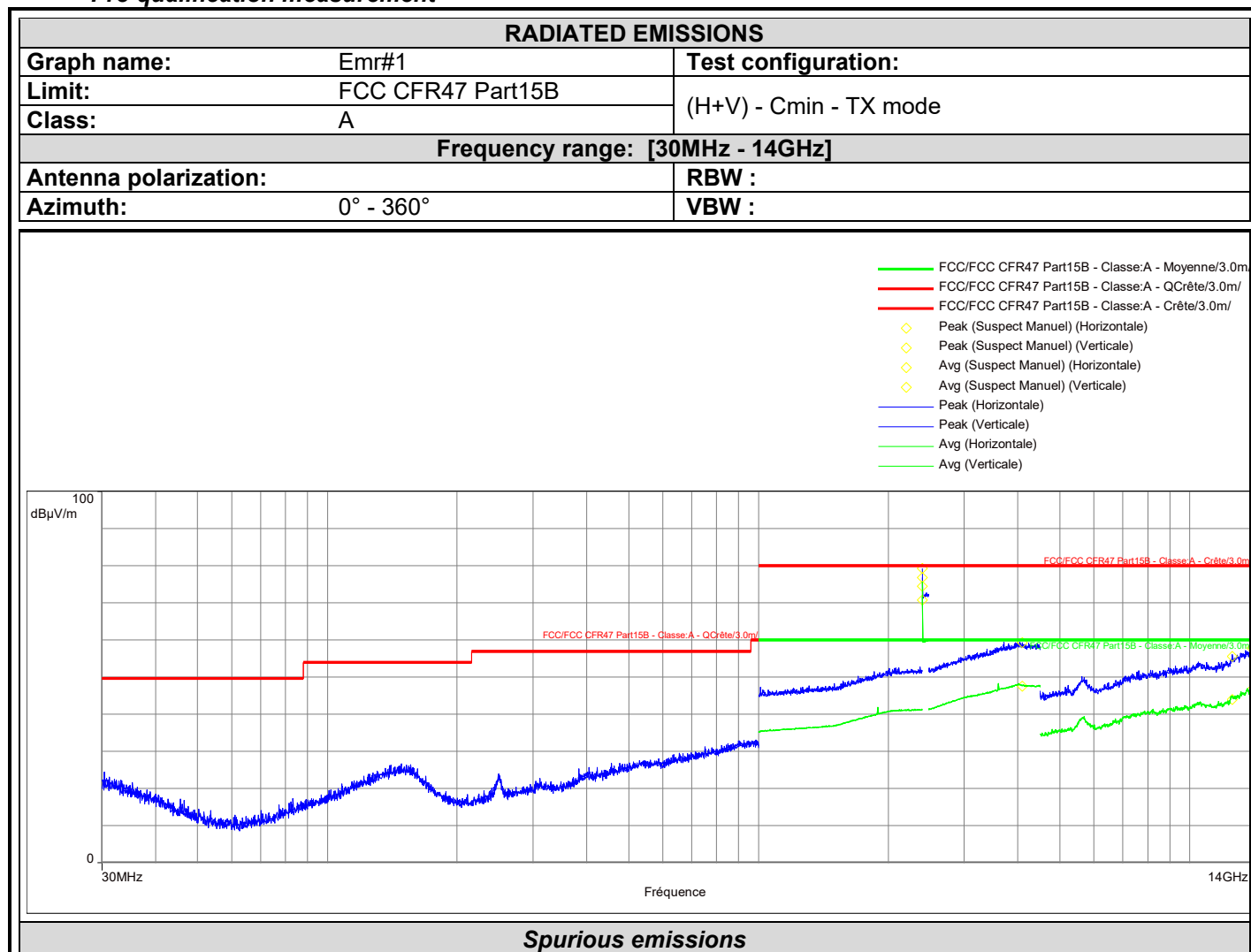
3.5. DIVERGENCE, ADDITION OR SUPPRESSION ON THE TEST SPECIFICATION

None

3.6. TEST RESULTS – RUNNING MODE N°1

3.6.1. 30MHz –18GHz

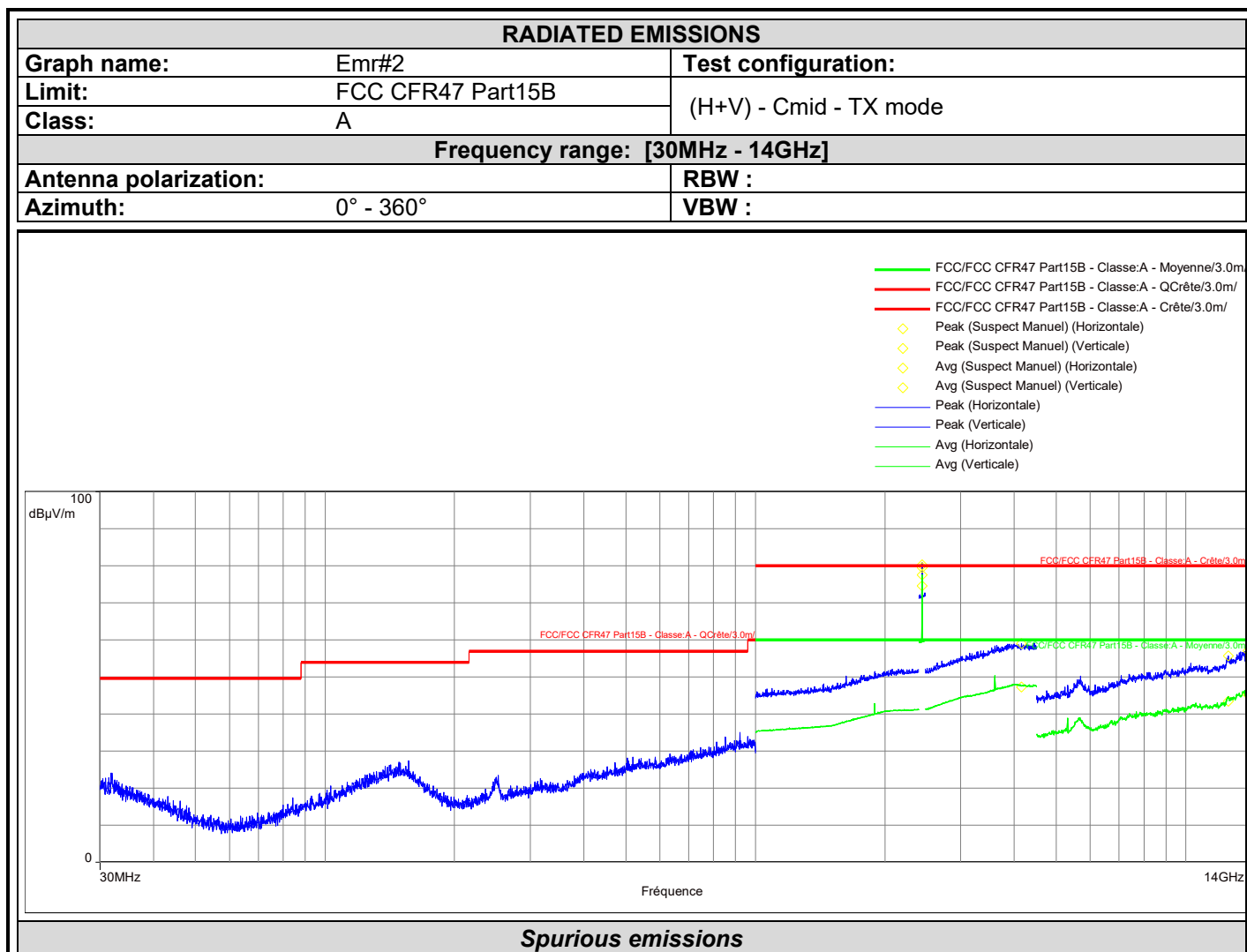
Pre-qualification measurement



Frequency (MHz)	Peak (dBμV/m)	Lim.Peak (dBμV/m)	Avg (dBμV/m)	Lim.Avg (dBμV/m)	Lim.Q-Peak (dBμV/m)	Polarization	Correction (dB)
2401.795	76.8	80.0	70.8	60.0	/	Horizontal	35.4
4095.893	59.2	80.0	47.5	60.0	/	Horizontal	41.0
12570.250	55.6	80.0	44.0	60.0	/	Horizontal	-9.5
13979.100	57.8	80.0	46.6	60.0	/	Horizontal	-4.9
2402.171	79.2	80.0	74.5	60.0	/	Vertical	35.4



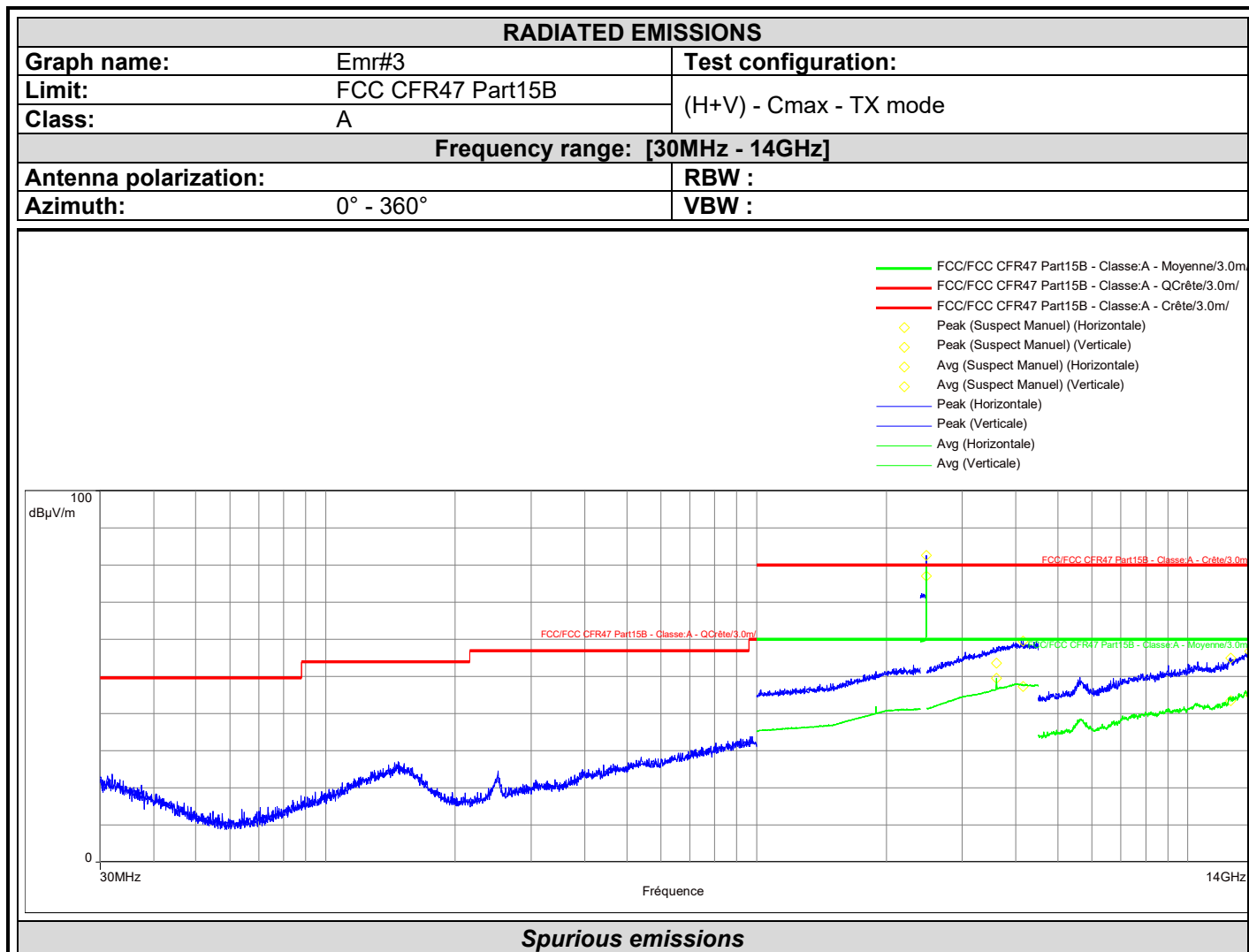
L C I E



Frequency (MHz)	Peak (dBμV/m)	Lim.Peak (dBμV/m)	Avg (dBμV/m)	Lim.Avg (dBμV/m)	Lim.Q-Peak (dBμV/m)	Polarization	Correction (dB)
2439.871	79.6	80.0	74.6	60.0	/	Horizontal	35.4
4155.178	59.0	80.0	47.3	60.0	/	Horizontal	41.0
12584.500	55.7	80.0	43.5	60.0	/	Horizontal	-9.4
13971.500	57.1	80.0	45.2	60.0	/	Horizontal	-5.0
2439.955	80.3	80.0	77.6	60.0	/	Vertical	35.4



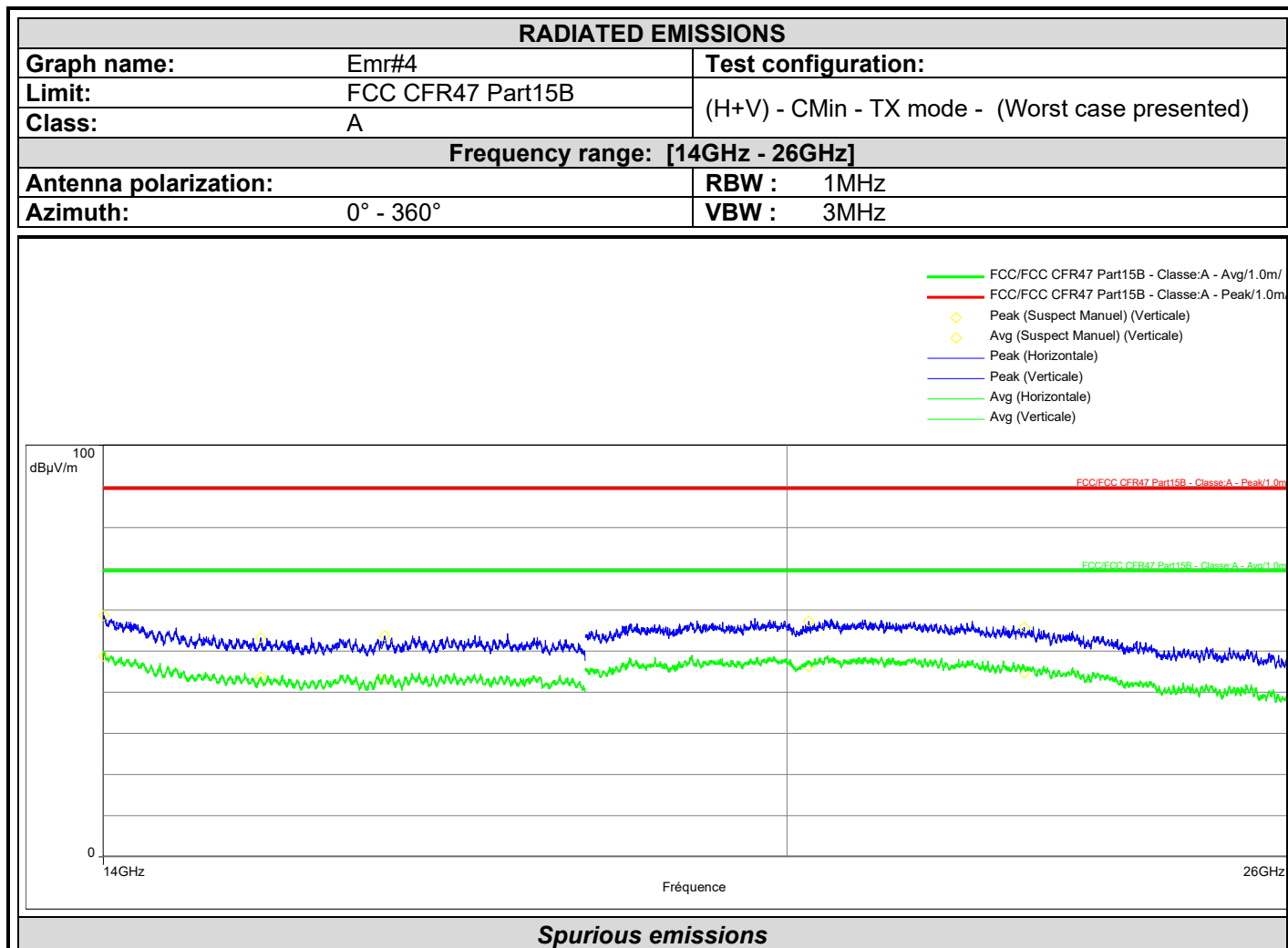
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Frequency (MHz)	Peak (dBμV/m)	Lim.Peak (dBμV/m)	Avg (dBμV/m)	Lim.Avg (dBμV/m)	Lim.Q-Peak (dBμV/m)	Polarization	Correction (dB)
3599.834	53.6	80.0	49.5	60.0	/	Horizontal	39.9
12591.150	54.9	80.0	43.4	60.0	/	Horizontal	-9.4
13936.350	56.8	80.0	45.2	60.0	/	Horizontal	-5.2
4149.936	59.5	80.0	47.4	60.0	/	Vertical	41.0
2480.202	82.6	80.0	77.0	60.0	/	Vertical	35.4



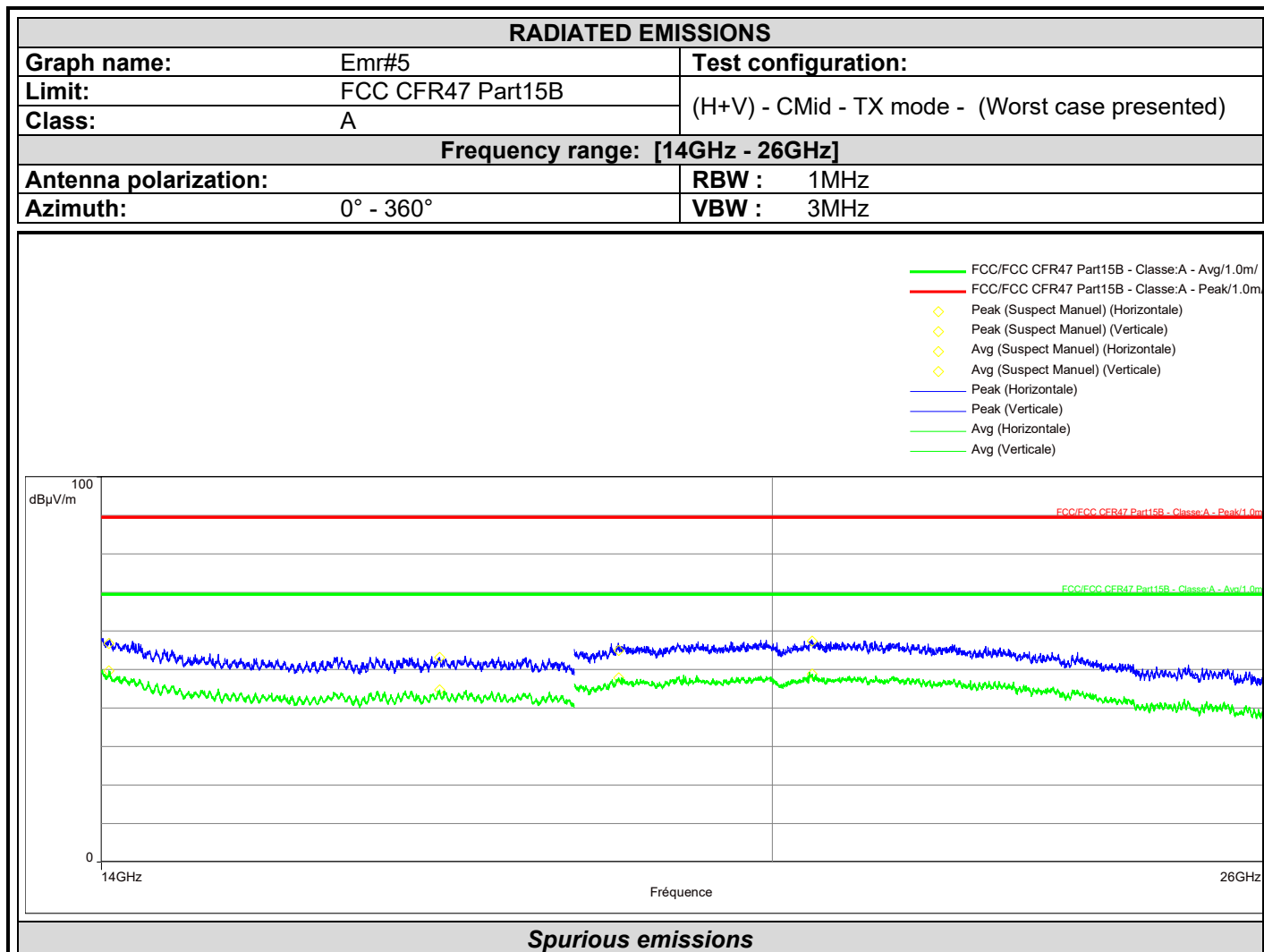
L C I E



Frequency (MHz)	Peak (dBμV/m)	Lim.Peak (dBμV/m)	Avg (dBμV/m)	Lim.Avg (dBμV/m)	Polarization	Correction (dB)
14002.000	58.6	83.5	48.8	63.5	Vertical	5.1
15199.500	53.2	83.5	43.6	63.5	Vertical	-1.5
16213.000	53.7	83.5	43.1	63.5	Vertical	-1.4
20229.000	57.3	83.5	46.4	63.5	Vertical	3.1
22642.000	55.8	83.5	44.8	63.5	Vertical	2.7



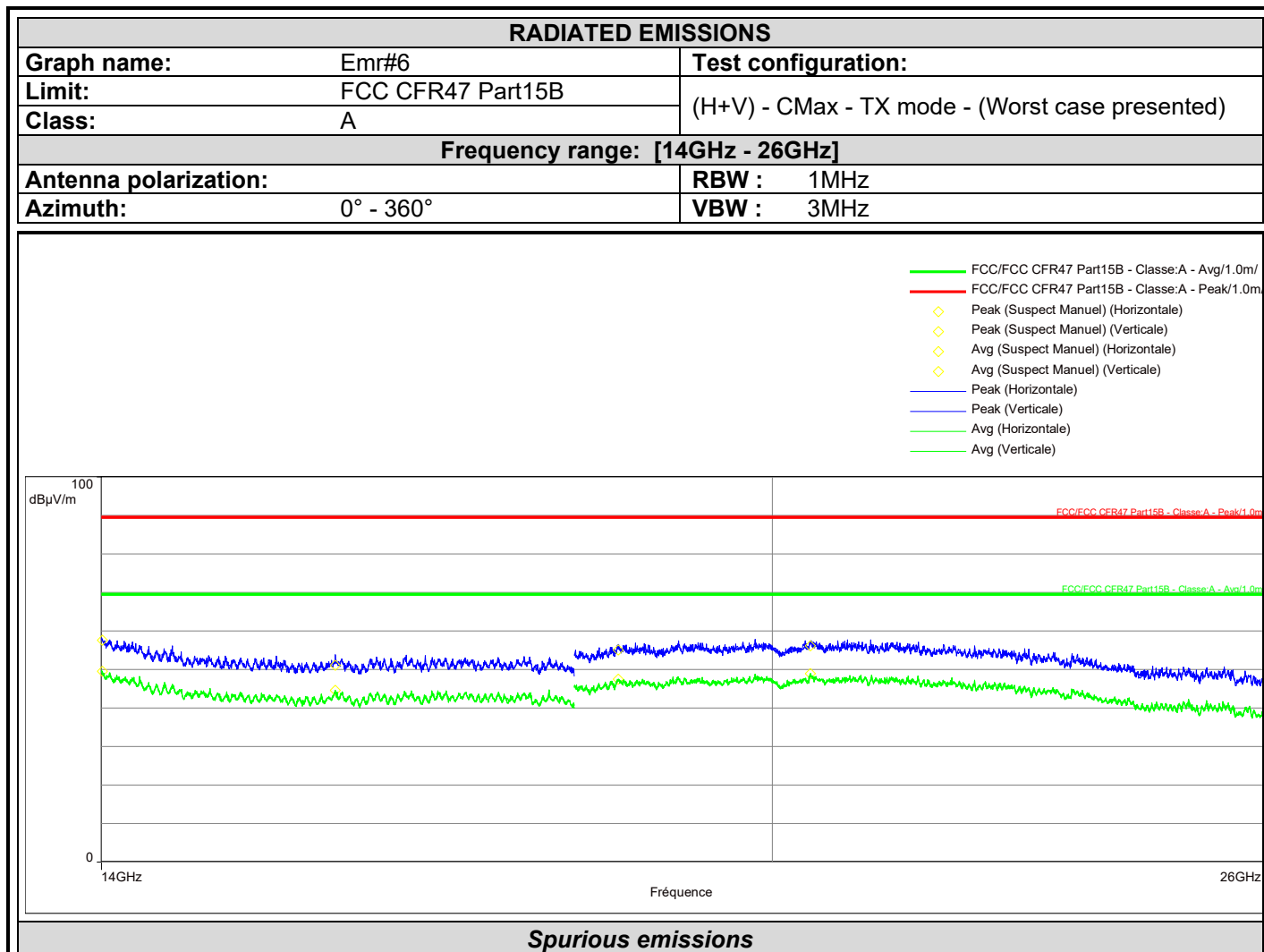
L C I E



Frequency (MHz)	Peak (dBμV/m)	Lim.Peak (dBμV/m)	Avg (dBμV/m)	Lim.Avg (dBμV/m)	Polarization	Correction (dB)
14055.500	56.7	89.5	49.6	69.5	Horizontal	4.9
16759.500	53.1	89.5	44.7	69.5	Horizontal	-1.1
18433.000	55.0	89.5	47.9	69.5	Vertical	3.1
20430.000	57.4	89.5	48.8	69.5	Vertical	3.6



L C I E



Frequency (MHz)	Peak (dBμV/m)	Lim.Peak (dBμV/m)	Avg (dBμV/m)	Lim.Avg (dBμV/m)	Polarization	Correction (dB)
18430.000	55.0	89.5	47.4	69.5	Horizontal	3.1
20411.000	56.2	89.5	48.9	69.5	Horizontal	3.6
14006.500	57.6	89.5	49.5	69.5	Vertical	5.1
15854.500	51.1	89.5	44.6	69.5	Vertical	-1.8



Qualification

The frequency list is created from the results obtained during the pre-qualification.
Measurements are performed using a QUASI-PEAK detection.

30MHz to 18GHz					
Polarization	Frequency (MHz)	Peak Level (dBμV/m)	QPeak Level (dBμV/m)	Limit (dBμV/m)	Margin QPeak (dBμV/m)
all emissions were below the limit					

3.6.2. 18GHz - 25GHz

Qualification

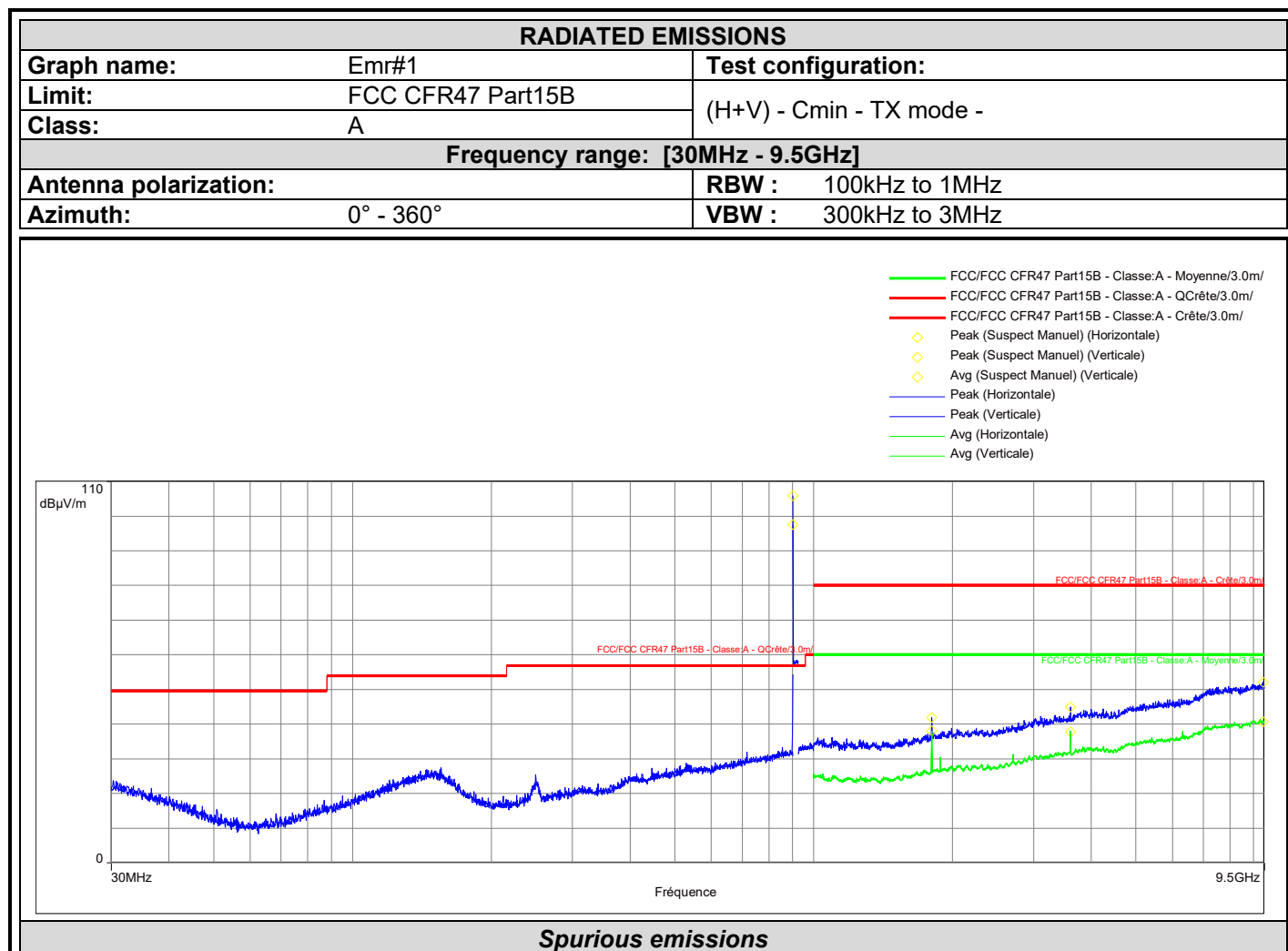
The frequency list is created from the results obtained during the pre-qualification.
Measurements are performed using a PEAK and AVERAGE detection.

18GHz to 25GHz					
Polarization	Frequency (MHz)	Peak Level (dBμV/m)	QPeak Level (dBμV/m)	Limit (dBμV/m)	Margin QPeak (dBμV/m)
all emissions were below the limit					

3.7. TEST RESULTS – RUNNING MODE N°1

3.7.1. 30MHz –9.5GHz

Pre-qualification measurement



Frequency (MHz)	Peak (dBµV/m)	Lim.Peak (dBµV/m)	Avg (dBµV/m)	Lim.Avg (dBµV/m)	Lim.Q-Peak (dBµV/m)	Polarization	Correction (dB)
902.260	97.5	/	/	/	56.9	Horizontal	28.8
1804.100	41.9	80.0	38.0	60.0	/	Vertical	-28.6
3608.650	44.9	80.0	37.8	60.0	/	Vertical	-22.6
9434.550	52.1	80.0	40.7	60.0	/	Vertical	-12.0
902.338	105.9	/	/	/	56.9	Vertical	28.8

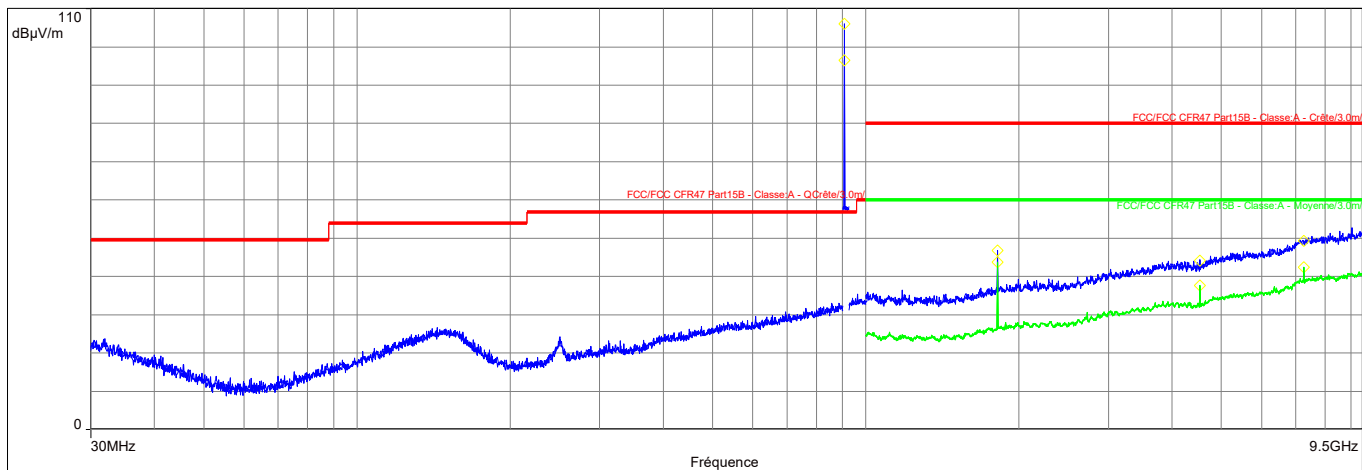


L C I E

RADIATED EMISSIONS

Graph name:	Emr#2	Test configuration: (H+V) - Cmid - TX mode
Limit:	FCC CFR47 Part15B	
Class:	A	
Frequency range: [30MHz - 9.5GHz]		
Antenna polarization:		RBW : 100kHz to 1MHz
Azimuth:	0° - 360°	VBW : 300kHz to 3MHz

- FCC/FCC CFR47 Part15B - Classe:A - Moyenne/3.0m/
- FCC/FCC CFR47 Part15B - Classe:A - QCrête/3.0m/
- FCC/FCC CFR47 Part15B - Classe:A - Crête/3.0m/
- Peak (Suspect Manuel) (Horizontale)
- Peak (Suspect Manuel) (Verticale)
- Avg (Suspect Manuel) (Verticale)
- Peak (Horizontale)
- Peak (Verticale)
- Avg (Horizontale)
- Avg (Verticale)



Spurious emissions

Frequency (MHz)	Peak (dBμV/m)	Lim.Peak (dBμV/m)	Avg (dBμV/m)	Lim.Avg (dBμV/m)	Lim.Q-Peak (dBμV/m)	Polarization	Correction (dB)
908.552	96.5	/	/	/	56.9	Horizontal	28.9
1816.850	46.7	80.0	43.8	60.0	/	Vertical	-28.6
4542.800	44.1	80.0	37.7	60.0	/	Vertical	-21.4
7267.900	49.3	80.0	42.4	60.0	/	Vertical	-13.5
908.526	106.0	/	/	/	56.9	Vertical	28.9

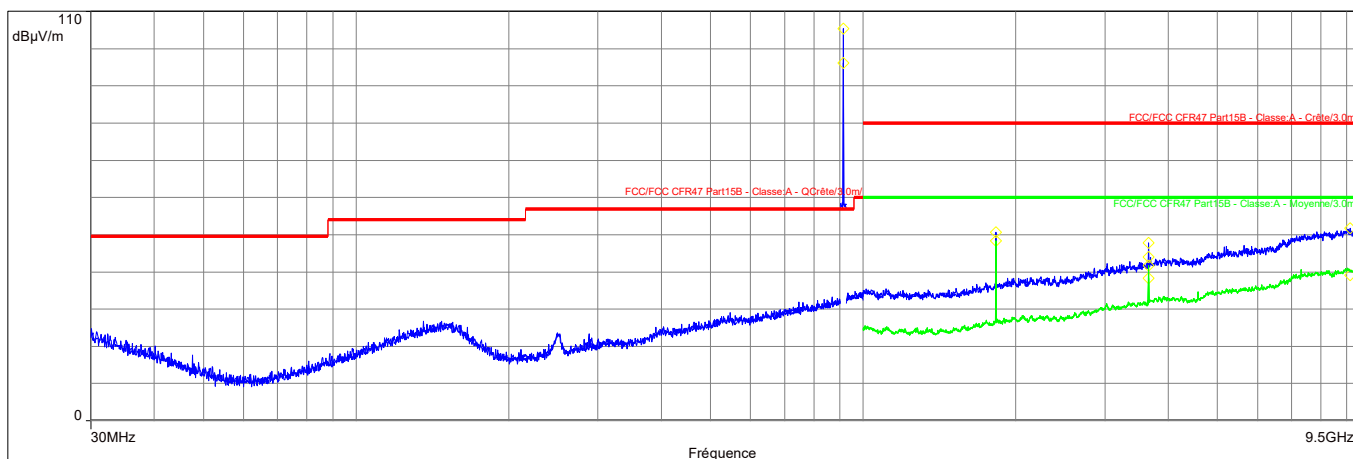


L C I E

RADIATED EMISSIONS

Graph name:	Emr#3	Test configuration: (H+V) - Cmax - TX mode
Limit:	FCC CFR47 Part15B	
Class:	A	
Frequency range: [30MHz - 9.5GHz]		
Antenna polarization:		RBW : 100kHz to 1MHz
Azimuth:	0° - 360°	VBW : 300kHz to 3MHz

- FCC/FCC CFR47 Part15B - Classe:A - Moyenne/3.0m/
- FCC/FCC CFR47 Part15B - Classe:A - QCrête/3.0m/
- FCC/FCC CFR47 Part15B - Classe:A - Crête/3.0m/
- Peak (Suspect Manuel) (Horizontale)
- Peak (Suspect Manuel) (Verticale)
- Avg (Suspect Manuel) (Horizontale)
- Avg (Suspect Manuel) (Verticale)
- Peak (Horizontale)
- Peak (Verticale)
- Avg (Horizontale)
- Avg (Verticale)



Spurious emissions

Frequency (MHz)	Peak (dBμV/m)	Lim.Peak (dBμV/m)	Avg (dBμV/m)	Lim.Avg (dBμV/m)	Lim.Q-Peak (dBμV/m)	Polarization	Correction (dB)
914.896	96.2	/	/	/	56.9	Horizontal	28.9
3659.650	47.8	80.0	41.7	60.0	/	Horizontal	-22.2
1829.600	50.6	80.0	48.3	60.0	/	Vertical	-28.6
3659.650	44.0	80.0	38.3	60.0	/	Vertical	-22.2
9135.350	51.8	80.0	39.1	60.0	/	Vertical	-12.0
914.974	105.4	/	/	/	56.9	Vertical	28.9



Qualification

The frequency list is created from the results obtained during the pre-qualification.
Measurements are performed using a QUASI-PEAK detection.

30MHz to 9.5GHz					
Polarization	Frequency (MHz)	Peak Level (dBμV/m)	QPeak Level (dBμV/m)	Limit (dBμV/m)	Margin QPeak (dBμV/m)
all emissions were below the limit					

3.7.2. 18GHz - 25GHz

Qualification

The frequency list is created from the results obtained during the pre-qualification.
Measurements are performed using a PEAK and AVERAGE detection.

9.5GHz to 25GHz					
Polarization	Frequency (MHz)	Peak Level (dBμV/m)	QPeak Level (dBμV/m)	Limit (dBμV/m)	Margin QPeak (dBμV/m)
all emissions were below the limit					

3.8. CONCLUSION

The sample of the equipment **1001910**, Sn : **070049 and 070070** , tested in the configuration presented in this test report **satisfies** to requirements of the product family standard applied (See §Test Program) for radiated emissions.

4. UNCERTAINTIES CHART

Type de mesure / Kind of measurement	Incertitude élargie laboratoire / Wide uncertainty laboratory (k=2) ±x	Incertitude limite du CISPR / CISPR uncertainty limit ±y
Mesure des perturbations conduites en tension sur le réseau d'énergie (monophasé /triphase) 9kHz-150kHz <i>Measurement of conducted disturbances in voltage on the power port (single & three phases)9kHz-150kHz</i>	3.7dB	3.8dB
Mesure des perturbations conduites en tension sur le réseau d'énergie (monophasé /triphase) 150kHz-30MHz <i>Measurement of conducted disturbances in voltage on the power port (single & three phases)150kHz-30MHz</i> LISN 50Ω/50μH Capacitive Voltage Probe	3.3dB 3.7dB	3.4dB 3.9dB
Mesure des perturbations conduites en tension sur le réseau de télécommunication <i>Measurement of conducted disturbances in voltage on the telecommunication port.</i> AAN avec aLCL = 55 ... 40 dBc AAN avec aLCL = 65 ... 50 dBc AAN avec aLCL = 75 ... 60 dBc	4.2dB 4.6dB 5.0dB	4.2dB 4.6dB 5.1dB
Mesure des perturbations discontinues conduites en tension <i>Measurement of discontinuous conducted disturbances in voltage</i>	3.4dB	3.4dB
Mesure des perturbations conduites en courant <i>Measurement of conducted disturbances in current</i>	2.9dB	2.9dB
Mesure du champ électrique rayonné en cage de Faraday semi-anechoïque de 30MHz à 1GHz <i>Measurement of radiated electric field in half-anechoic Faraday room</i> <i>From 30MHz to 1GHz</i>	6.3dB	6.3dB
Mesure du champ électrique rayonné en cage de Faraday anechoïque de 1GHz à 6GHz <i>Measurement of radiated electric field in full-anechoic Faraday room</i> <i>From 1GHz to 6GHz</i>	5.2dB	5.2dB
Mesure du champ électrique rayonné en cage de Faraday anechoïque de 6GHz à 18GHz <i>Measurement of radiated electric field in full-anechoic Faraday room</i> <i>From 6GHz to 18GHz</i>	5.5dB	5.5dB
Mesure du champ électrique rayonné sur le site en espace libre de Moirans 30MHz – 1GHz. <i>Measurement of radiated electric field on the Moirans open area test site</i> <i>30MHz – 1GHz.</i>	6.3dB	6.3dB
Mesure du champ électrique rayonné IN SITU de 30 à 1000 MHz <i>IN SITU measurement of radiated electric field from 30 to 1000MHz</i>	A l'étude / Under consideration	5.2dB
Mesure de la puissance perturbatrice <i>Measurement of disturbance power</i>	3.32dB	4.5dB
Mesure des harmoniques de courant <i>Measurement of current harmonics</i>	11.11%	/
Mesure du flicker <i>Flicker measurement</i>	9.26%	/

Les valeurs d'incertitudes calculées du laboratoire étant inférieures aux valeurs d'incertitudes limites établies par le CISPR, la conformité de l'échantillon est établie directement par les niveaux limites applicables. Ce tableau regroupe l'ensemble des incertitudes maximales pour les essais réalisables dans le laboratoire, qu'ils aient été ou non réalisés dans le cadre du présent rapport / *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*

Note - L'incertitude de mesure instrumentale est déterminée selon la CISPR 16-4-2. / *The instrumentation measurement uncertainty is determined according to CISPR16-4-2*