

FCC Test Firm Designation Number: FR0014
ISED Wireless Device Testing Laboratory CAB Number: FR0004

Matériel testé :
Equipment under test:

WIKA / NETRIS® 3 - *L2*
(Trademark / Marketing name or product reference)

Demandeur de certification : **WIKA Alexander Wiegand SE & Co. KG**
Applicant for certification: Alexander-Wiegand-Str. 30
63911 Klingenberg – Germany

Client : **Sensile Technologies SA**
Customer: 45 Rue de Lausanne
1110 Morges - Suisse

Numéro d'affaire : OF-110704
Work number :

Référence de la proposition : DV-811028
Proposal number:

Date de l'essai : 20 et 21 Mars 2025
Date of test: March 20th to 21st, 2025

Objectif des essais : EMC qualification accordingly to following standards:
Test purpose: - CFR 47, FCC Part 15, Subpart C
(Chapter 15.247 - Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz)
- ISED RSS-247, Issue 3
(Digital Transmission Systems Operating in the Bands 902–928 MHz) .
Partial tests for :
Unwanted emissions into Non Restricted Frequency Bands (Radiated)
Unwanted emissions into Restricted Frequency Bands (Radiated)

Lieu du test: SMEE, 385 Rue René Rambaud
Test location: 38500 VOIRON - France

Test réalisé par : Chemseddine KERMICHE
Test realized by:

Ed.	Date	Modifications Pages	Written by : Visa	Approved by: Visa
1	April 3 th , 2025	Initial Edition	Chemseddine KERMICHE	Laurent CHAPUS
2	July 16 th , 2025	TCB review	Test operator 	Technical Manager

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1. Normatives References

FCC qualification according to:		
Standards	Applied	Title
ANSI C63.10 (2013)	X	American National Standard for Testing Unlicensed Wireless Devices
CFR47, Part 15 (March 2025)	X	Telecommunication – Federal Communication Commission – Radio frequency devices, Sections 15.207 / 15.209 / 15.247

ISED qualification according to:		
Standards	Applied	Title
RSS-Gen (Issue 5/2018, amendments 2019 and 2021)	X	General Requirements and Information for the Certification of Radio Apparatus
RSS-247 (Issue 3/2023)	X	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

Note: Following guidance are used

- DTS Measurement Guidance 558074 D01 v05
- Determining ERP and EIRP Guidance 412172 D01 v01r01

Deviation from standard: None

2. Test synthesis

Requirement for Systems using digital modulation techniques (DTS)

TEST	Paragraph number FCC Part 15 / IC RSS-247 / RSS-GEN	Spec. FCC Part 15 / IC RSS-247 / RSS-GEN	RESULTS (comments)
Conducted emissions test	15.207 (a) RSS-Gen § 8.8	Table 15.107 (a) Table 4 / RSS-Gen	NP (1)
6dB Bandwidth	15.247 (a) (2) RSS-247 § 5.2 (a)	At least 500kHz	NP (1)
Maximum Conducted Output Power	15.247 (b) (3) RSS-247 § 5.4 (d)	1W max / 30dBm (Conducted) 4W max / 36dBm (EIRP)	NP (1)
Maximum Power Spectral Density	15.247 (e) RSS-247 § 5.2 (b)	8dBm in a 3kHz band segment	NP (1)
Unwanted emissions into Non Restricted Frequency Bands	15.247 (d) / RSS-247 § 5.5	-30dBc in any 100kHz outside frequency band.	PASS
Unwanted emissions into Restricted Frequency Bands	15.209 (a) / 15.247 (d) / 15.205 (a) RSS-GEN § 7.1, §8.9, § 8.10 / RSS-247 § 5.5	<u>Measure at 300m</u> 9-490kHz: 2400µV/m/F(kHz) 6.370µA/m/F (kHz) <u>Measure at 30m</u> 0.490-1.705: 24000µV/m/F(kHz) 63.70µA/m/F (kHz) 1.705-30MHz: 30µV/m 0.08µA/m <u>Measure at 3m</u> 30MHz-88MHz : 40 dBµV/m 88MHz-216MHz : 43.5 dBµV/m 216MHz-960MHz : 46.0 dBµV/m Above 960MHz : 54.0 dBµV/m	PASS
Occupied Bandwidth	RSS-GEN § 6.7	BW at 99%	NP (1)

NP: Not performed

(1): Not requested by the manufacturer.

Requirement for Hybrid systems (DSS)

TEST	Paragraph number FCC Part 15 / IC RSS-247 / RSS-GEN	Spec. FCC Part 15 / IC RSS-247 / RSS-GEN	RESULTS (comments)
Conducted emissions test	15.207 (a) RSS-Gen § 8.8	Table 15.107 (a) Table 4 / RSS-Gen	NP (1)
20dB Bandwidth	15.247 (a) (1) RSS-247 § 5.1	No requirements	NP (1)
Hopping channel separation	15.247 (a) (1) / RSS-247 5.1 a) b)	<u>Minimum separation</u> 25kHz or the two-third 20dB bandwidth whichever is greater	NP (1)
Number of hopping frequencies	15.247 (a) (1) / RSS-247 5.1 c)	No requirements for hybrid systems	NP (1)
Time of occupancy	15.247 (f) / RSS-247 5.3 a)	Maximum 400ms per channel within 25.6s (64 channels used)	NP (1)
Maximum Conducted Output Power	15.247 (b) (3) RSS-247 § 5.4 (d)	1W max / 30dBm (Conducted) 4W max / 36dBm (EIRP)	NP (1)
Maximum Power Spectral Density	15.247 (e) RSS-247 § 5.2 (b)	8dBm in a 3kHz band segment	NP (1)
Unwanted emissions into Non Restricted Frequency Bands	15.247 (d) / RSS-247 § 5.5	-30dBc in any 100kHz outside frequency band.	PASS
Unwanted emissions into Restricted Frequency Bands	15.209 (a) / 15.247 (d) / 15.205 (a) RSS-GEN § 7.1, §8.9, § 8.10 / RSS-247 § 5.5	<u>Measure at 300m</u> 9-490kHz: 2400µV/m/F(kHz) <u>Measure at 30m</u> 0.490-1.705: 24000µV/m/F(kHz) 1.705-30MHz: 30µV/m <u>Measure at 3m</u> 30MHz-88MHz : 40 dBµV/m 88MHz-216MHz : 43.5 dBµV/m 216MHz-960MHz : 46.0 dBµV/m Above 960MHz : 54.0 dBµV/m	PASS
Occupied Bandwidth	RSS-GEN § 6.7	BW at 99%	NP (1)

NP: Not performed

(1): Not requested by the manufacturer.

3. Equipment Under Test (EUT)

Nom / Identification

WIKA / NETRIS ® 3 - *L2*
(Trademark / Marketing name or product reference)

Board Ref:
NETRIS3 r8 v244.

FCC ID:

2BQILTN3US915

IC:

34256-N3US915

Model:

NETRIS ® 3 - *L2*

Alimentation / Power supply

3V DC from internal battery, model : SAFT LM17500

Auxiliaires / Auxiliaries

None.

Entrées-Sorties / Input / Output

	Câbles pour essai / Cables for test	Blindé / Shielded	Prévu pour >3m / Intended for >3m
Cable	4 wires / 40.0 cm	No	No

Version programme / Firmware version

4.0.0.test

Mode de fonctionnement / Running mode

The tested sample is able to:

- Transmit a carrier frequency on low, middle and high channels with all modulation schemes (LORA 500kHz (DTS) & LORA 125kHz (DSS) / SF 7).
- Frequency hopping for hybrid system can be enabled or disabled

Programme de test / Test program /

Putty (for RF configuration signal)

Fréquence max interne EST / Max internal EUT frequency

914.9MHz RF communication.

Information sur l'équipement / Equipment information

- Frequency band: 902 to 928MHz (Tx & Rx)
- Operating channel: 902.3 to 914.9MHz (125kHz channel width, FHSS mode)
903.0 to 914.2MHz (500kHz channel width, DTS mode)
- Spreading factor: FHSS mode: SF7
DTS mode: SF7
- Number of channels: FHSS mode: 64 channels
DTS mode: 8 channels
- Channel spacing: FHSS mode: 200kHz
DTS mode: 1.6MHz
- Power Setting rated output power (14dBm)
- Modulation: LORA
- Antenna type: Printed PCB
- Module powered by 3V DC from test board

Note: The above information are declared by the manufacturer/customer and are under his responsibility.

4. Test conditions

Power supply voltage:

Equipment under test:

3V DC from internal battery, model : SAFT LM17500.

Auxiliaries:

None.

5. Modifications of the EUT

None.

6. Special accessory

None.

7. Measurement Uncertainty

Test Description	Expanded uncertainty
Conducted emissions test (150k-30MHz, AC mains)	± 3.5dB
Radiated emission test (9kHz-30MHz, electric field)	± 4.0dB
Radiated emission test (30-300MHz, SAC 3m)	± 5.6dB
Radiated emission test (300-1000MHz, SAC 3m)	± 5.3dB
Radiated emission test (1-40GHz, SAC)	± 5.6dB
Conducted RF output power at antenna port	± 1.6dB
Radiated RF output power (Peak, Power density)	± 5.6dB
DTS Bandwidth, 99% OBW	±4%
Temperature	± 1°C
Time and duty cycle calculation	±1%
AC and DC voltage	±1%

Note: Expanded uncertainty at 95% confidence (k=2)

8. Field Strength Calculation

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

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

Where FS = Field Strength (Level)

RA = Receiver Amplitude (Meter Reading)

AF = Antenna Factor

CF = Cable Factor

AG = Amplifier Gain

Margin value = Emission level – Limit value

Example:

RA: 14.0dBμV / AF: 16.5 dBm⁻¹ / CF: 3.5dB / AG: 15dB

→ Total factor: 5dBm⁻¹

→ Field level: 19.0dBμV/m (-21.0dB for margin if limit is 40dBμV/m)

9. Test setup photos

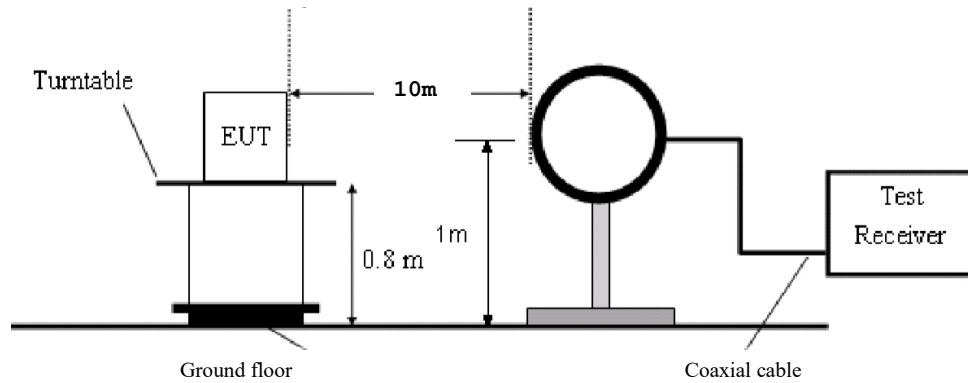
See additional file 110704-Test setup photos

10. Tested equipment photos

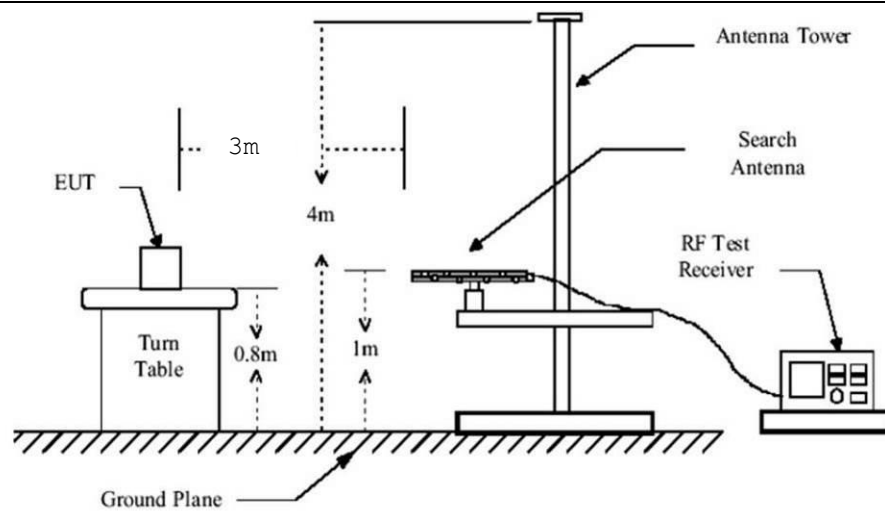
See additional file 110704-Tested equipment photos

11. Test Setup Diagram

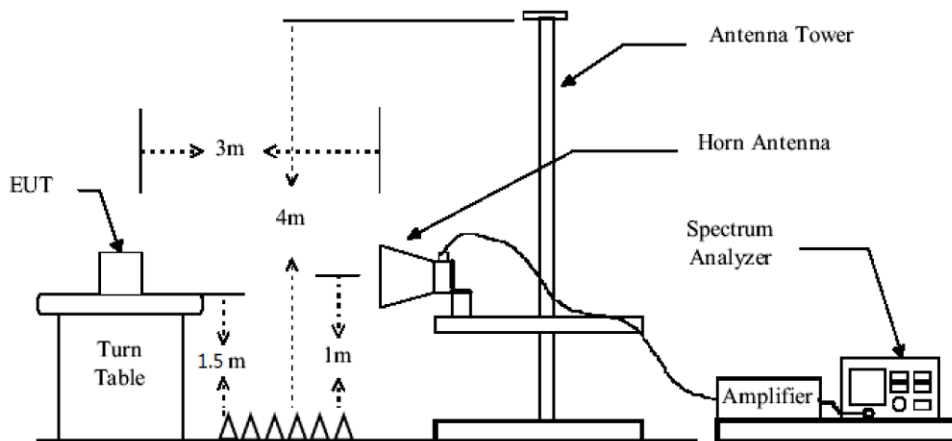
Test Setup for radiated emission



Test setup for 9k-30MHz (FS OATS)



Test setup for 30-1000MHz (SAC 3m)



Test setup for 1-10GHz (SAC 3m, tilt antenna mast used)

12. Test Equipment List

Test Equipment Used for radiated measurement					
Description	Manufacturer	Model	ID	Date Cal.	Nxt. Cal.
Loop antenna	EMCO	6502	ANT-101-009	2023/9	2025/9
Log-periodic antenna	EMCO	3146	ANT-191-019	2024/3	2026/3
Biconnic antenna	COM-POWER	AB- 900A	ANT-201-021	2023/01	2025/3
Horn antenna	COM-POWER	AH-118	ANT-101-004	2024/9	2027/9
High-Pass filter	Wainwright Inst.	HK6-948-1200	FIL-141-004	2024/4	2025/4
RF cable	HUBER+SUHNER	SF126E / 2m	CAB-231-043	2024/4	2025/4
RF cable	HUBER+SUHNER	SF104E / 5.3m	CAB-231-044	2024/4	2025/4
RF cable	HUBER+SUHNER	SF126E / 7m	CAB-231-045	2024/4	2025/4
Semi anechoic room	COMTEST	218292	CAG-201-002	2022/4	2025/4
Antenna mast	Innco- Systems	MA4640-XP-ET	MAT-201-002	-	-
Turntable	Innco- Systems	CT0800	PLA-141-001	-	-
Turntable	Innco- Systems	DS1500-S-1t	PLA-201-003	-	-
Pre-amplifier	COM-POWER	1-18GHz	PRE-221-005	2024/4	2025/4
Measuring receiver	Rohde&Schwarz	ESRP	REC-151-002	2024/7	2027/1
Spectrum analyzer	Rohde&Schwarz	FSV40	ASP-171-004	2024/4	2026/10
EMC Software	NEXIO	BAT EMC	SOF-101-001	-	-

13. Unwanted emissions in Non-Restricted Frequency bands (Radiated emissions)

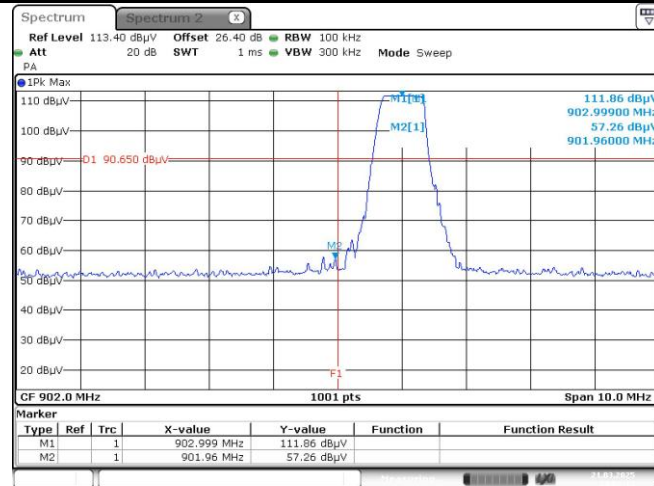
TEST: Unwanted emissions in Non-Restricted Frequency Bands			Verdict
<u>Method:</u> Measurements were made in a 3-meter Semi Anechoic Room (SAR) up to 1GHz and in a 3-meter Full Anechoic environment (SAR with floor absorbers) above 1GHz. The Semi Anechoic Room complies with CISPR16-1-4 / ANSI C63.4 requirements. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3 meters. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. The pre-characterization graphs are obtained in PEAK detection. Final measurements (Peak, Quasi-peak, Average) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.			Pass
Laboratory Parameters:	Required prior to the test	During the test	
Ambient Temperature	20 to 30 °C	21°C ± 2	
Relative Humidity	25 to 70 %	44% ± 5	
Fully configured sample scanned over the following frequency range	Frequency range on each side of line	Measurement Point	
	30MHz – 10GHz	3 m measurement distance	
Limits – FCC Part 15.247 (d) / RSS-247 § 5.5			
Frequency (MHz)	Limits (dBµV/m)		
	Detector / Analyser RBW	Limit	Results
30 to 10000	Pk / 100kHz	30dB below the maximum Peak level	Pass
Supplementary information: Test location: SMEE. Test date: March 20 th & 21 st , 2025. Tested by C. KERMICHE.			

Tabulated Results for Peak Output Radiated level	
FREQ (MHz)	Field Strength 3m (dBμV/m)
903.0 / DTS	111.3
907.8 / DTS	111.9
914.2 / DTS	112.1
902.3 / Hybrid	110.7
908.5 / Hybrid	112.3
914.9 / Hybrid	112.0
RBW:	100kHz
Measurement distance:	3m
Limit:	Ref. level only – For 15.247 (d) / RSS-247 § 5.5
Final measurement detector:	Peak
Note:	(1): Only for identification of limit in non-restricted band Limit is 80.7 dBμV/m Peak for out-of-band frequencies in Non-Restricted bands (with a 100kHz RBW on the spectrum analyser)

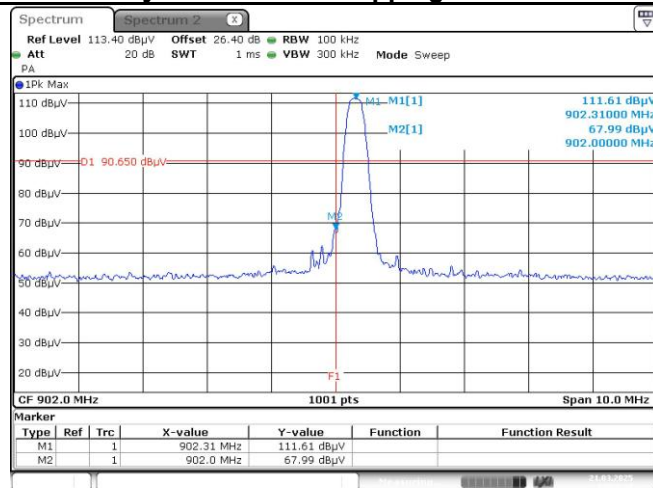
Tabulated Results for Unwanted emissions in Non-Restricted bands				
FREQ (MHz)	Field Strength 3m (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Result (dBμV/m)
Levels are at least 10dB below the 80.7dBμV/m limit (See curves in chapter 12)				
RBW:	100kHz			
Measurement distance:	3m			
Limit:	15.247 / RSS-247			
Final measurement detector:	Peak			
RESULT:	PASS			
Note:	(1): The field strength (level) is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation is as follow: $FS = RA + AF + CF - AG$ Where FS = Field Strength RA = Receiver Amplitude AF = Antenna Factor CF = Cable Factor AG = Amplifier Gain Total factor (dB) is $AF + CF - AG$ Margin value = Emission level – Limit value (2): Peak pre-scans not performed at 3-meters distance are corrected as follow: $M@3m = M@D_m + 20 \times \log(D_m / 3m)$ Where D is the measurement distance in meter (3): All frequencies not specified have margin < -10dB (4): Worst case between charge mode and normal used mode (5): 3-axis measurement performed for device under test.			

Graphical representation of Band-edge compliance (LOW)

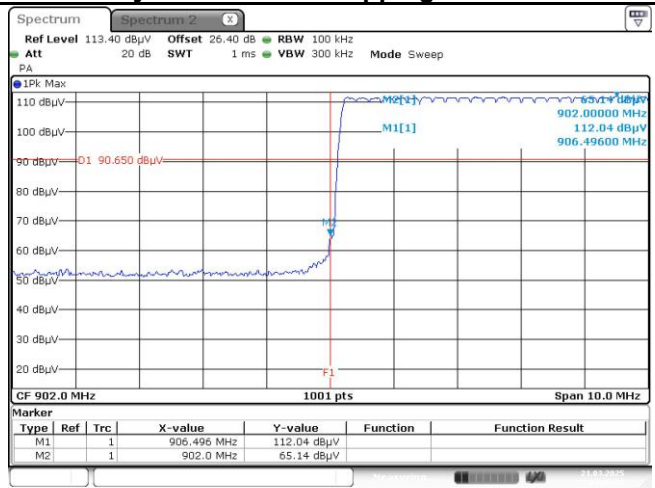
DTS / 500 kHz mode



Hybrid 125 kHz / Hopping Disable



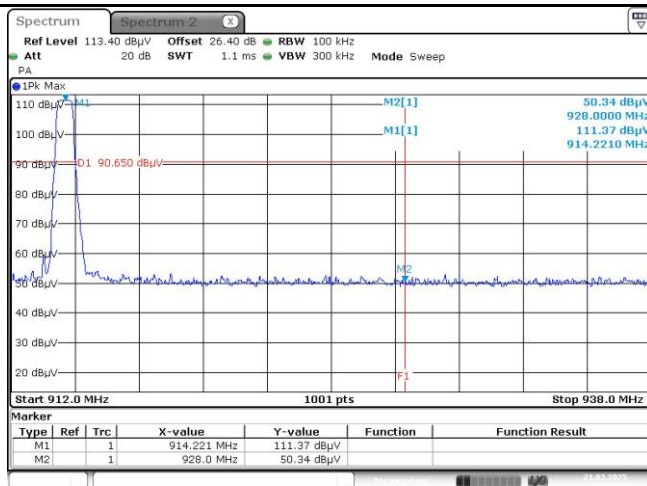
Hybrid 125 kHz / Hopping Enabled



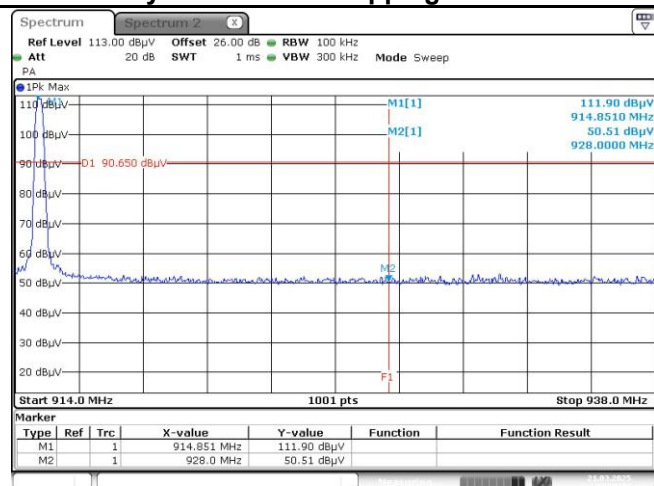
Unit :	dBμV/m
RBW :	100kHz
Measurement detector:	Peak
Limit:	80.7 dBμV/m
Note:	F1 is 902MHz

Graphical representation of Band-edge compliance (HIGH)

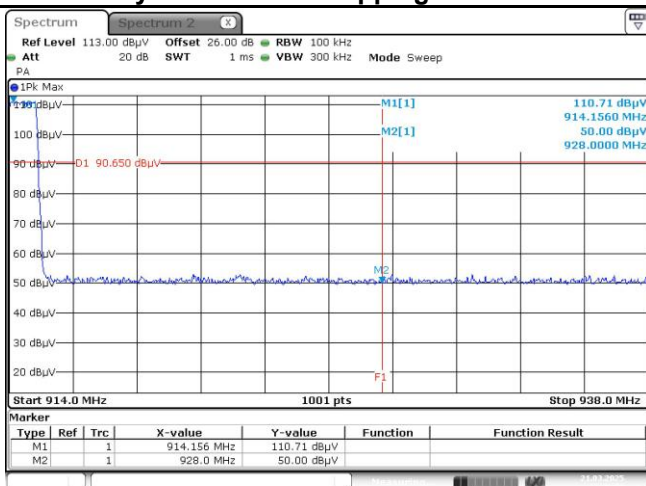
DTS / 500kHz mode



Hybrid 125kHz / Hopping Disable



Hybrid 125kHz / Hopping Enabled



Unit :	dBm
RBW :	100kHz
Measurement detector:	Peak
Limit:	87.8 dBμV/m
Note:	F1 is 928MHz

14. Unwanted emissions in Restricted Frequency bands (Radiated emissions)

TEST: Unwanted emissions into Restricted Frequency Bands		Verdict
Method: Measurements were made in a 3-meter Semi Anechoic Room (SAR) for frequency 30MHz to 1GHz and in a 3-meter Full Anechoic environment (SAR with floor absorbers) above 1GHz. The Semi Anechoic Room complies with CISPR16-1-4 / ANSI C63.4 requirements. For frequency 9kHz to 30MHz, measurements are performed on a free-space open area test site at 10m distance. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3 meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements (Peak, Quasi-peak, Average) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.		Pass
Laboratory Parameters:	Required prior to the test	During the test
Ambient Temperature	20 to 30 °C	21°C ± 2
Relative Humidity	25 to 70 %	44% ± 5
Fully configured sample scanned over the following frequency range	Frequency range on each side of line	Measurement Point
	9kHz – 30MHz	10 m measurement distance
	30MHz – 10GHz	3 m measurement distance
Limits – FCC Part 15.205, 15.209 (a), 15.247 (d) / RSS-GEN §8.9, §8.10, RSS-247 §5.5		
Frequency (MHz)	Limits (dBµV/m)	
	Level / Detector / Distance	Results
0.009 to 0.090	107.6 – 87.6 / AV / 10m 127.6 – 107.6 / PK / 10m	Pass
0.090 to 0.110	87.6 – 85.9 / QP / 10m	Pass
0.110 to 0.490	85.7 – 72.9 / AV / 10m 105.7 – 92.9 / PK / 10m	Pass
0.490 to 1.705	52.9 – 42.1 / QP / 10m	Pass
1.705 to 30	48.6 / QP / 10m	Pass
30 to 88	40.0 / QP / 3m	Pass
88 to 216	43.5 / QP / 3m	Pass
216 to 960	46.0 / QP / 3m	Pass
960-1000	54.0 / QP / 3m	Pass
Above 1GHz	54.0 / AV / 3m 74.0 / PK / 3m	Pass
Supplementary information: Test location: SMEE. Test date: March 20th & 21st, 2025. Tested by C. KERMICHE.		

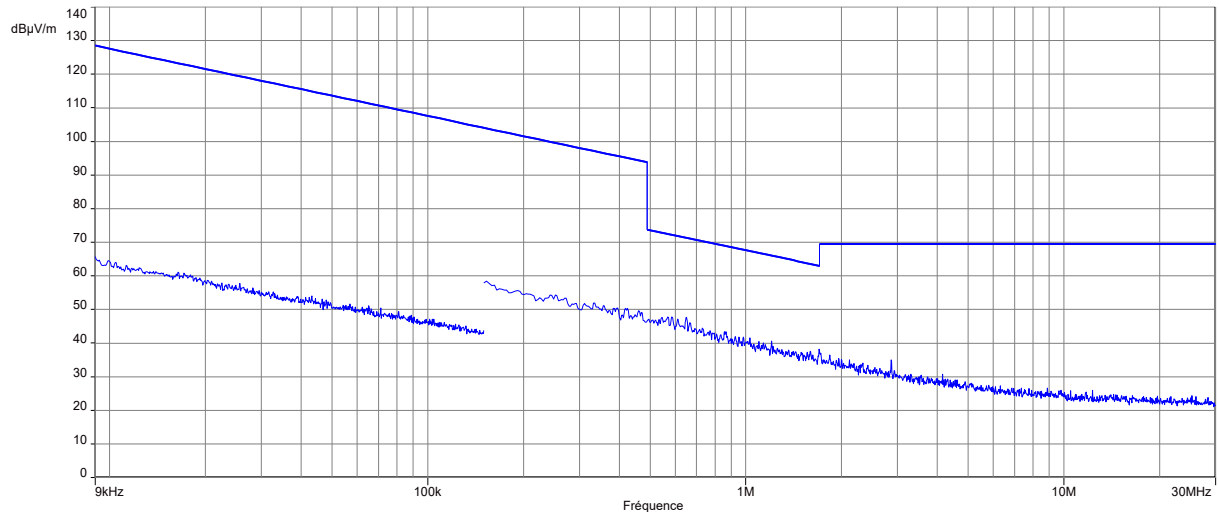
Tabulated Results for Unwanted emissions (9kHz-490kHz)							
FREQ	RF field @ 300m	Limit @ 300m	Detector	Margin	Ant. angle	Table angle	Correc. Fact. (CF)
MHz	dB μ V/m	dB μ V/m	Pk / QP / AV	dB	Degree	Degree	dB
All levels are at least 20dB below applicable limits							
Supplementary information: Frequency list measured has been created with pre-scan results.							
Frequency band investigated:		9kHz-490kHz					
RBW:		200Hz (9kHz-150kHz) 9kHz (150kHz-30MHz)					
Measurement distance:		10m					
Final measurement detector:		Peak / Quasi-Peak / Average					
Limit:		FCC Part 15.209 / RSS-Gen					
Note:		CF: Correction factor = Antenna factor + Cable loss *1: Measure have been done at 10m distance and corrected according to requirements of 15.209.e / RSS-Gen clause 6.5) (M@300m = M@10m-59.1dB) Loop antenna used and rotated about its axis to maximize any emission.					

Tabulated Results for Unwanted emissions (490kHz-30MHz)							
FREQ	RF field @ 30m	Limit @ 30m	Detector	Margin	Ant. angle	Table angle	Correc. Fact. (CF)
MHz	dB μ V/m	dB μ V/m	Pk / QP	dB	Degree	Degree	dB
All levels are at least 20dB below applicable limits							
Supplementary information: Frequency list measured has been created with pre-scan results.							
Frequency band investigated:		490kHz-30MHz					
RBW:		9kHz (150kHz-30MHz)					
Measurement distance:		10m					
Final measurement detector:		Quasi-Peak					
Limit:		FCC Part 15.209 / RSS-Gen					
Note:		CF: Correction factor = Antenna factor + Cable loss *1: Measure have been done at 10m distance and corrected according to requirements of 15.209.e) (M@30m = M@10m-19.1dB) Loop antenna used and rotated about its axis to maximize any emission.					

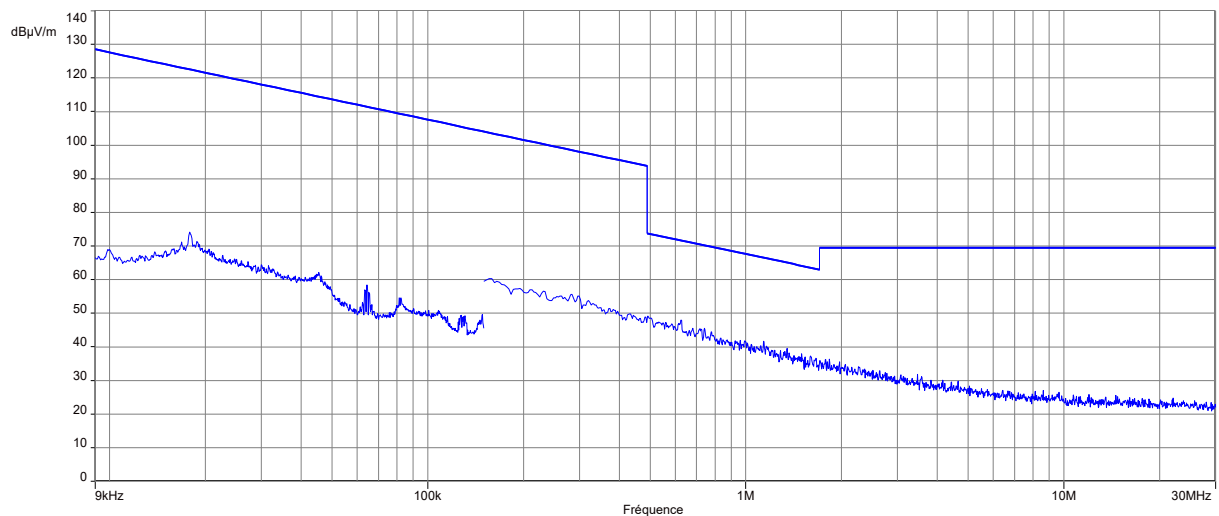
Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 9kHz-30MHz / 3m / Parallel & Perpendicular antenna position / Transmit mode) – Worst case

Hybride mode

Parallel



Perpendicular



Frequency band investigated:	9kHz-30MHz
Unit :	dBμV/m
RBW :	200Hz (9kHz-150kHz) 9kHz (150kHz-30MHz)
Antenna polarization :	Parallel & Perpendicular to measurement axis.
Measurement detector:	Peak.
Notes:	Pre-scan graph only for identification purpose.

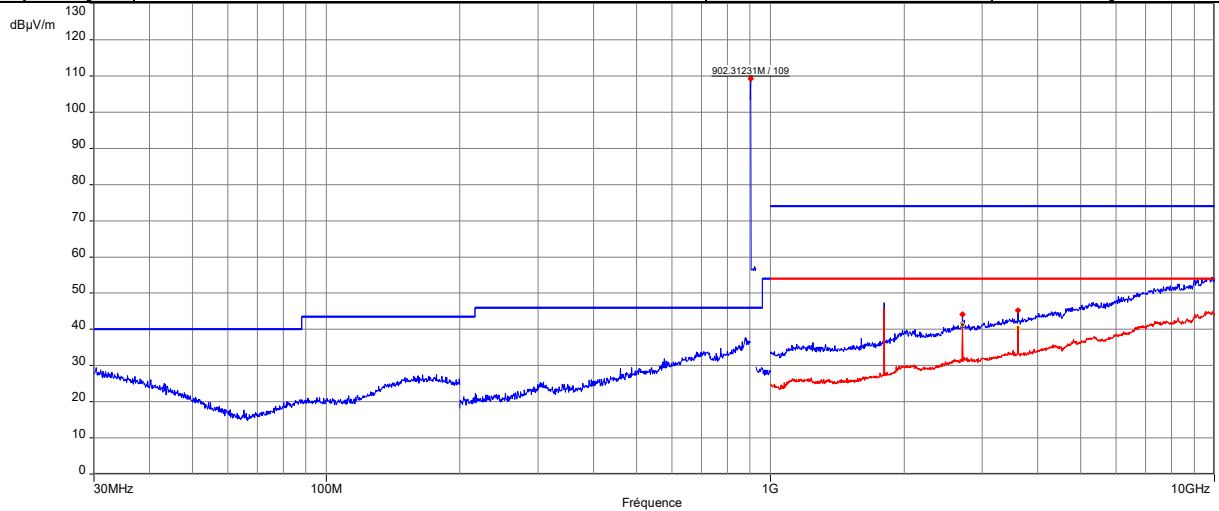
Graphical representation of Radiated Disturbance Measurement (Peak detection, Full Anechoic Chamber pre-scan, 30MHz-10GHz / 3m / Transmit mode / Worst position)

Center frequency: 902.3 MHz

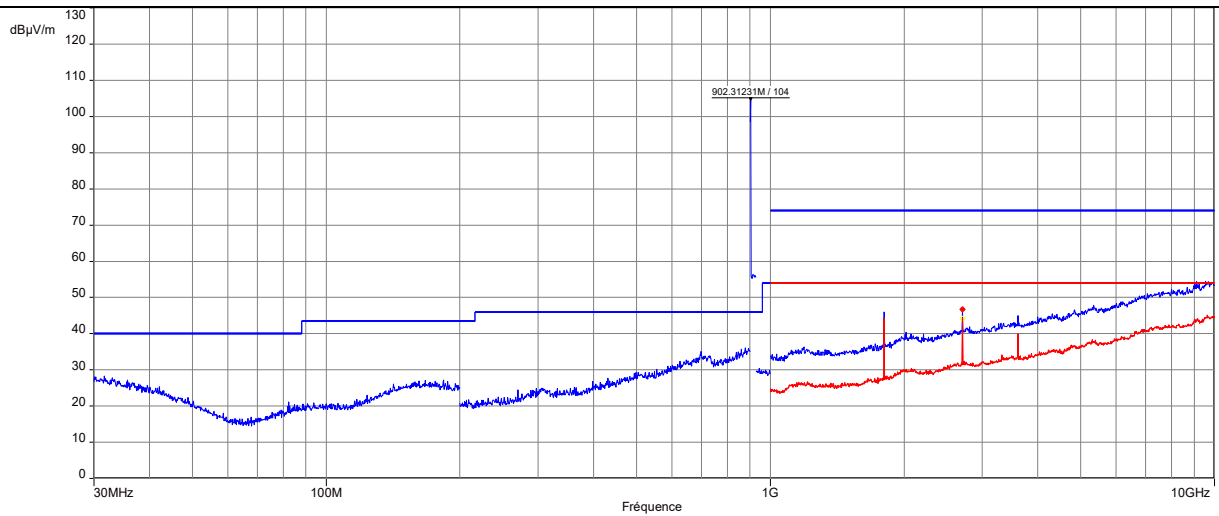
Mode

Hybride

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



FREQ	Field level	Field level	Limit	Margin	Limit	Margin	Table angle	Ant height	Total factor	Pol	Note
MHz	(PK) dBμV /m	(AV) dBμV/m	(PK) dBμV/m	(PK) dB	(AV) dBμV/m	(AV) dB	Degree	m	dB		
2706.8031	46.53	41.98	74.00	-27.47	54.00	-12.02	175.20	2.88	-5.87	H	(1)
3609.15999	45.95	37.51	74.00	-28.05	54.00	-16.49	223.90	1.09	-4.26	H	(1)
2707.15357	48.26	43.14	74.00	-25.74	54.00	-10.86	191.10	2.17	-5.87	V	(1)
RBW :			100kHz < 1GHz and 1MHz > 1GHz.								
Final measurement detector:			Quasi-Peak below 1GHz. Peak and CISPR Average above 1GHz.								
Note:			(1) Restricted band.								

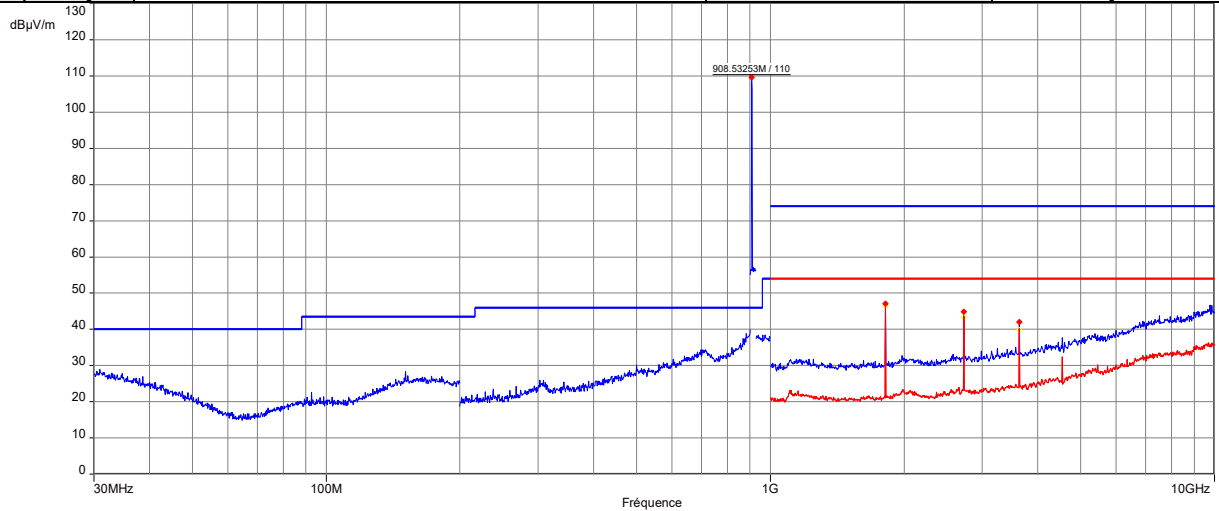
Graphical representation of Radiated Disturbance Measurement (Peak detection, Full Anechoic Chamber pre-scan, 30MHz-10GHz / 3m / Transmit mode / Worst position)

Center frequency: 908.5 MHz

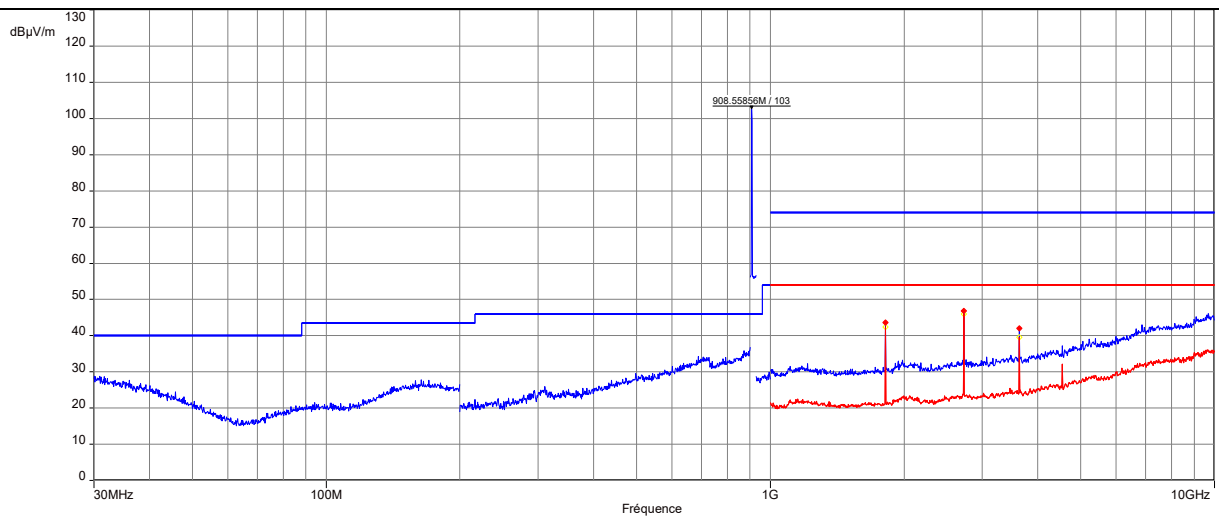
Mode

Hybride

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



FREQ	Field level	Field level	Limit	Margin	Limit	Margin	Table angle	Ant height	Total factor	Pol	Note
MHz	(PK) dBμV /m	(AV) dBμV/m	(PK) dBμV/m	(PK) dB	(AV) dBμV/m	(AV) dB	Degree	m	dB		
2725.51389	43.75	40.83	74.00	-30.25	54.00	-13.17	356.40	1.27	-5.95	H	(1)
3633.93929	42.85	38.62	74.00	-31.15	54.00	-15.38	0.40	1.46	-4.24	H	(1)
2725.52919	46.76	44.34	74.00	-27.24	54.00	-9.66	356.90	1.56	-5.95	V	(1)
3633.94481	42.61	38.73	74.00	-31.39	54.00	-15.27	352.40	1.25	-4.24	V	(1)
RBW :			100kHz < 1GHz and 1MHz > 1GHz.								
Final measurement detector:			Quasi-Peak below 1GHz. Peak and CISPR Average above 1GHz.								
Note:			(1) Restricted band.								

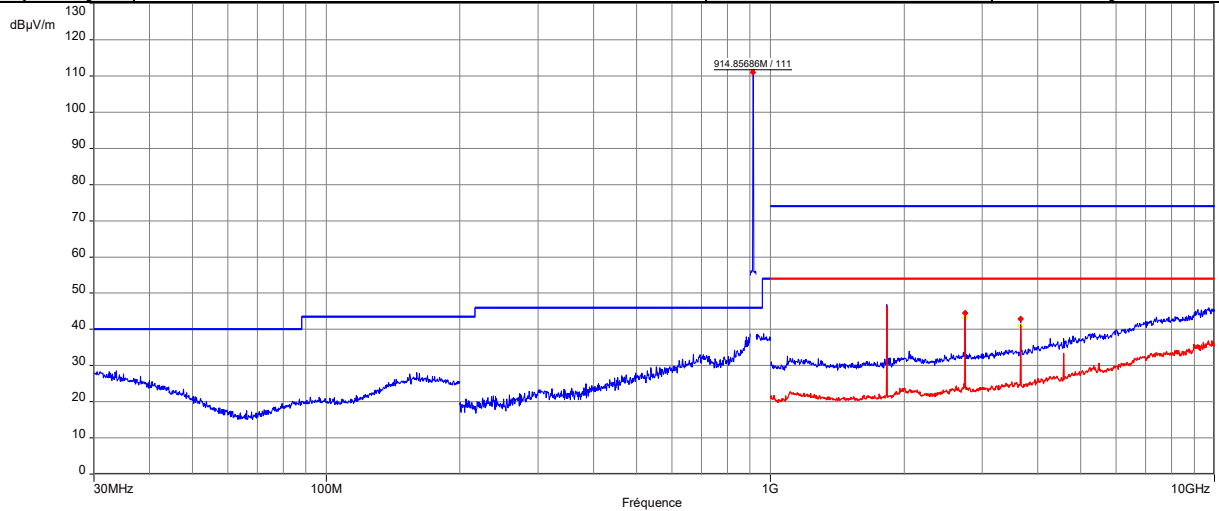
Graphical representation of Radiated Disturbance Measurement (Peak detection, Full Anechoic Chamber pre-scan, 30MHz-10GHz / 3m / Transmit mode / Worst position)

Center frequency: 914.9 MHz

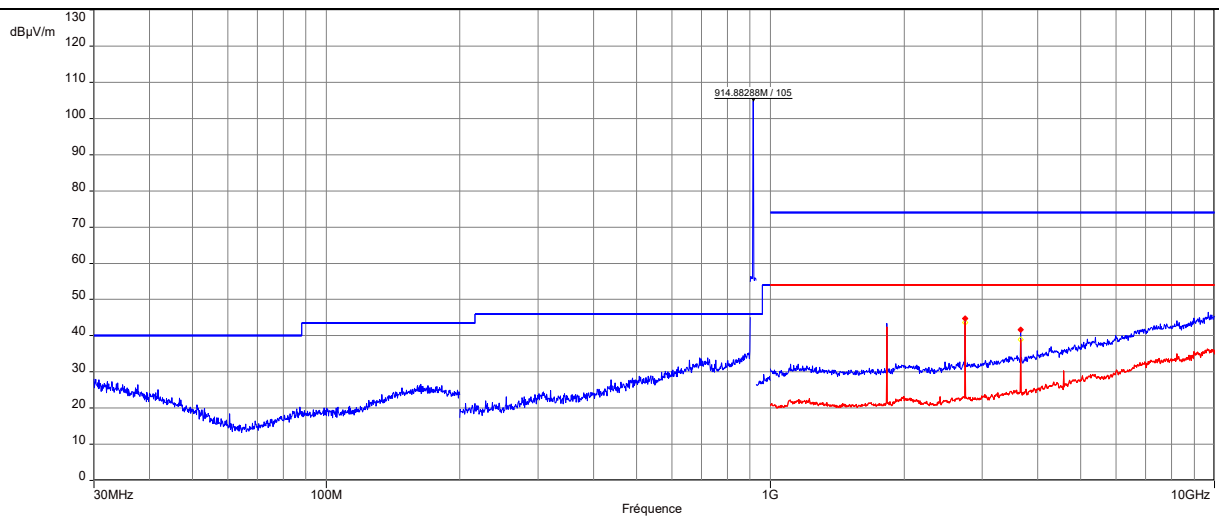
Mode

Hybride

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION

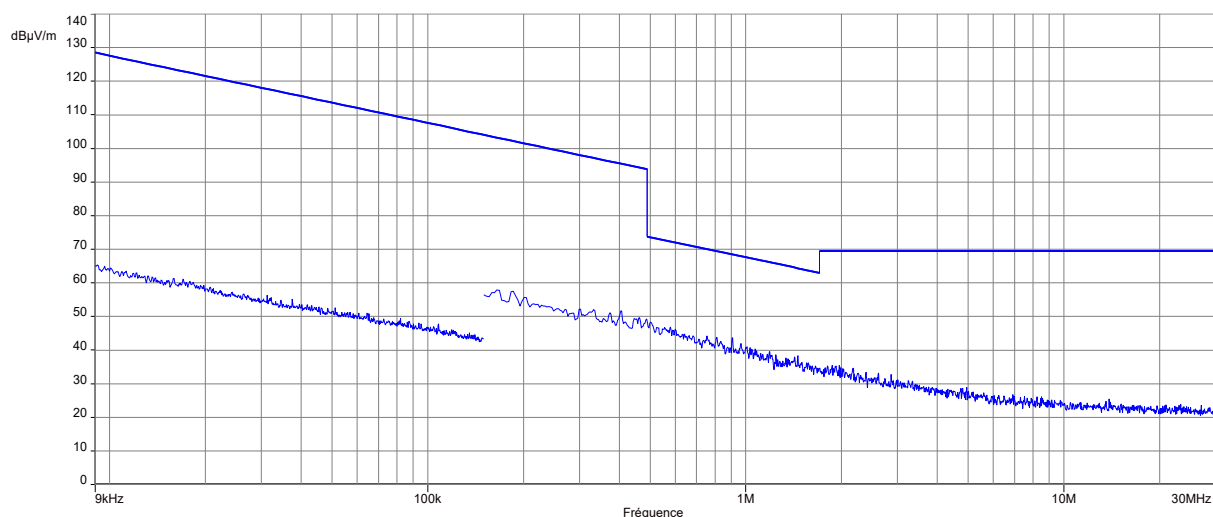


FREQ	Field level	Field level	Limit	Margin	Limit	Margin	Table angle	Ant height	Total factor	Pol	Note
MHz	(PK) dBμV/m	(AV) dBμV/m	(PK) dBμV/m	(PK) dB	(AV) dBμV/m	(AV) dB	Degree	m	dB		
2744.53553	45.39	42.22	74.00	-28.61	54.00	-11.78	183.90	2.85	-5.94	H	(1)
3659.46209	44.21	40.33	74.00	-29.79	54.00	-13.67	171.20	2.96	-4.32	H	(1)
2744.50083	47.92	45.63	74.00	-26.08	54.00	-8.37	169.10	2.56	-5.94	V	(1)
3659.43391	42.44	36.74	74.00	-31.56	54.00	-17.26	171.00	1.49	-4.32	V	(1)
RBW :			100kHz < 1GHz and 1MHz > 1GHz.								
Final measurement detector:			Quasi-Peak below 1GHz. Peak and CISPR Average above 1GHz.								
Note:			(1) Restricted band.								

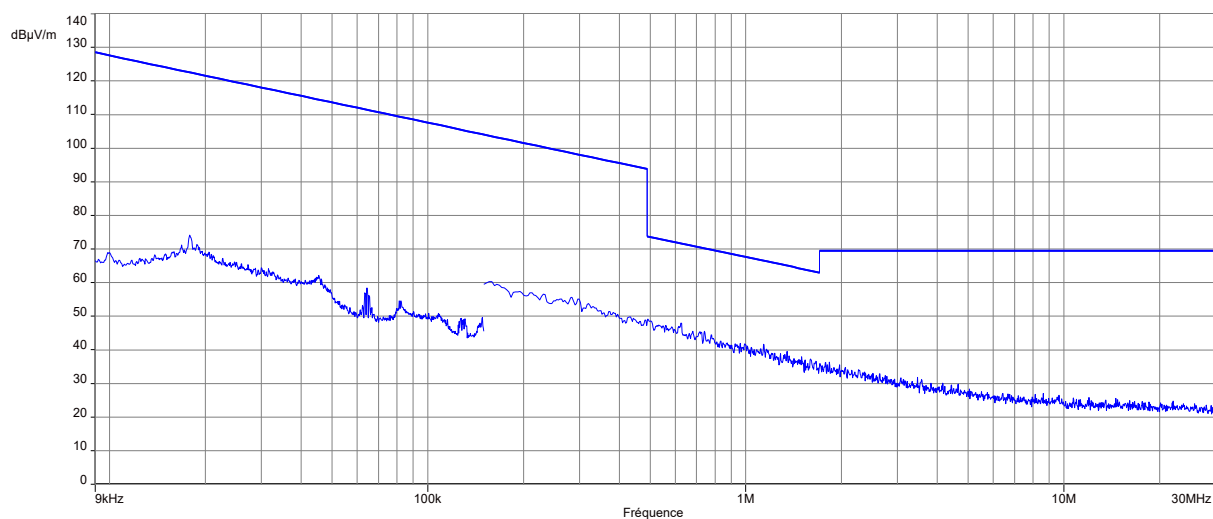
Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 9kHz-30MHz / 3m / Parallel & Perpendicular antenna position / Transmit mode) – Worst case

Hybride DTS

Parallel



Perpendicular



Frequency band investigated:	9kHz-30MHzs
Unit :	dBμV/m
RBW :	200Hz (9kHz-150kHz) 9kHz (150kHz-30MHz)
Antenna polarization :	Parallel & Perpendicular to measurement axis.
Measurement detector:	Peak.
Notes:	Pre-scan graph only for identification purpose.

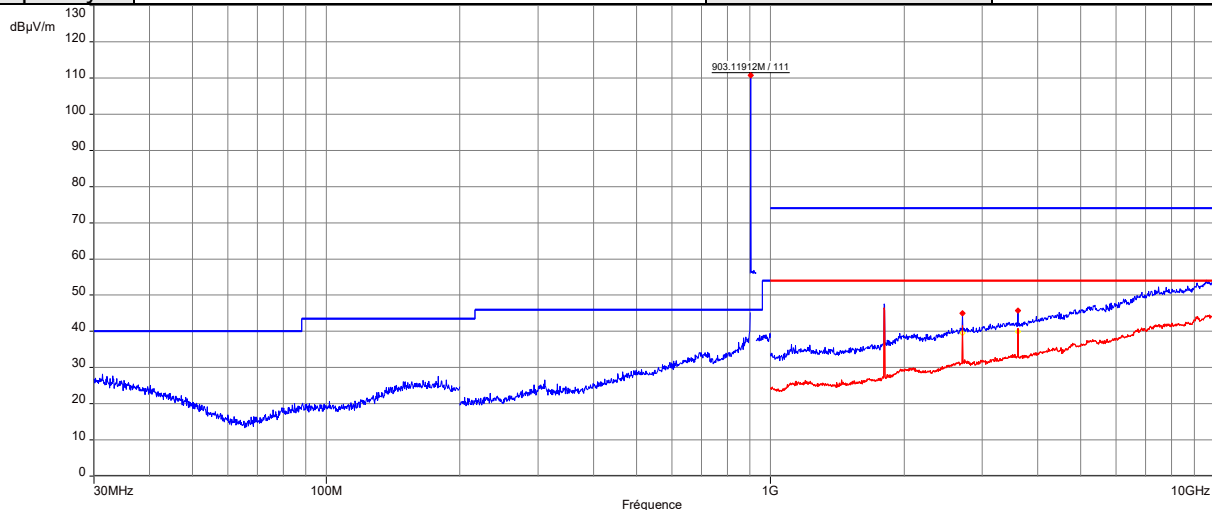
Graphical representation of Radiated Disturbance Measurement (Peak detection, Full Anechoic Chamber pre-scan, 30MHz-10GHz / 3m / Transmit mode / Worst position)

Center frequency: 903.0 MHz

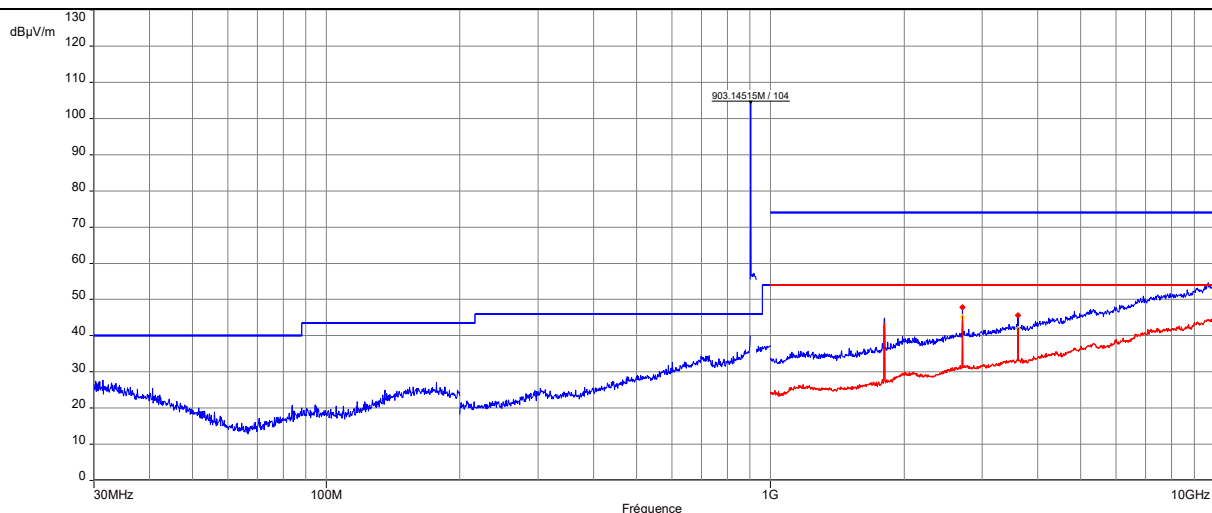
Mode

DTS

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



FREQ	Field level	Field level	Limit	Margin	Limit	Margin	Table angle	Ant height	Total factor	Pol	Note
MHz	(PK) dBμV/m	(AV) dBμV/m	(PK) dBμV/m	(PK) dB	(AV) dBμV/m	(AV) dB	Degree	m	dB		
2708.36237	45.92	33.74	74.00	-28.08	54.00	-20.26	4.10	1.27	-5.87	H	(1)
3611.35721	46.11	33.10	74.00	-27.89	54.00	-20.90	4.70	1.09	-4.25	H	(1)
2708.72389	48.10	39.09	74.00	-25.90	54.00	-14.91	21.80	1.79	-5.87	V	(1)
3611.43712	46.54	33.73	74.00	-27.46	54.00	-20.27	358.60	1.09	-4.25	V	(1)
RBW :			100kHz < 1GHz and 1MHz > 1GHz.								
Final measurement detector:			Quasi-Peak below 1GHz. Peak and CISPR Average above 1GHz.								
Note:			(1) Restricted band.								

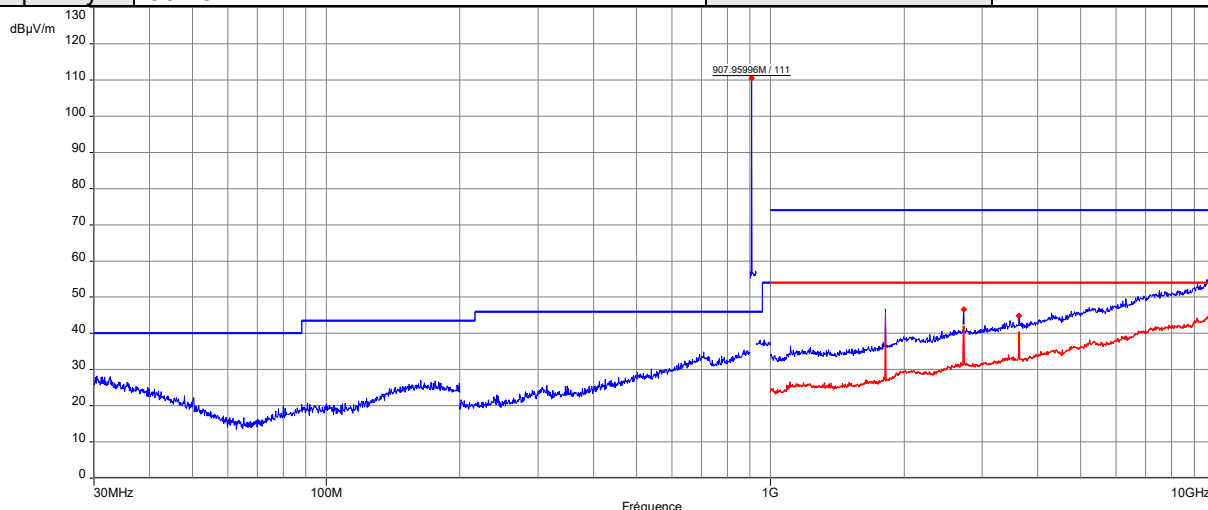
Graphical representation of Radiated Disturbance Measurement (Peak detection, Full Anechoic Chamber pre-scan, 30MHz-10GHz / 3m / Transmit mode / Worst position)

Center frequency: 907.8 MHz

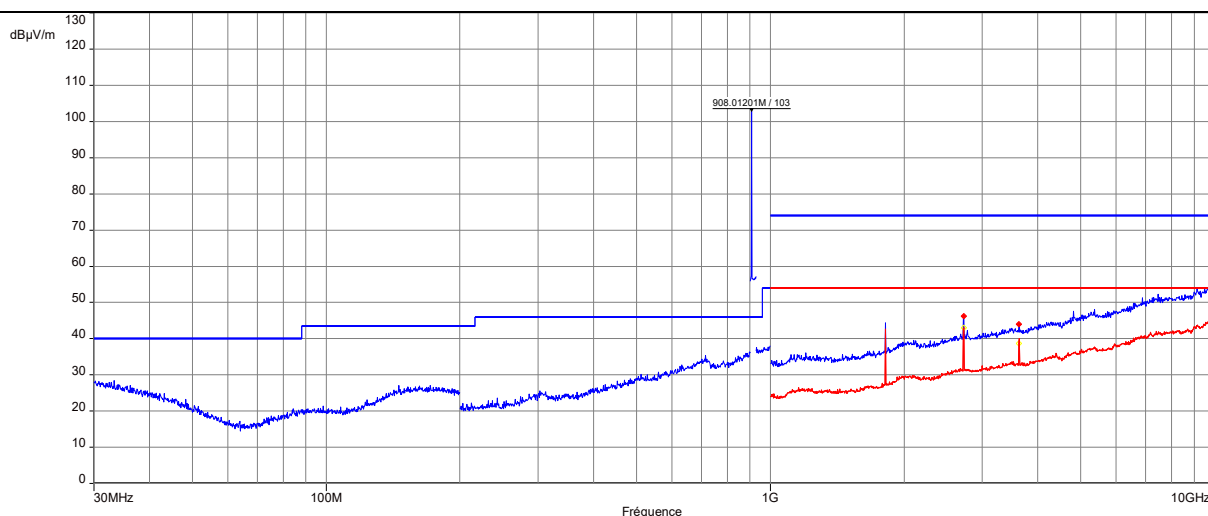
Mode

DTS

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



FREQ	Field level	Field level	Limit	Margin	Limit	Margin	Table angle	Ant height	Total factor	Pol	Note
MHz	(PK) dBμV/m	(AV) dBμV/m	(PK) dBμV/m	(PK) dB	(AV) dBμV/m	(AV) dB	Degree	m	dB		
2723.13195	46.91	35.39	74.00	-27.09	54.00	-18.61	180.60	1.70	-5.94	H	(1)
3630.70337	46.15	33.49	74.00	-27.85	54.00	-20.51	182.10	1.10	-4.22	H	(1)
2723.4991	47.49	36.66	74.00	-26.51	54.00	-17.34	170.80	2.66	-5.94	V	(1)
3630.43803	45.10	32.55	74.00	-28.90	54.00	-21.45	228.30	1.32	-4.22	V	(1)
RBW :			100kHz < 1GHz and 1MHz > 1GHz.								
Final measurement detector:			Quasi-Peak below 1GHz. Peak and CISPR Average above 1GHz.								
Note:			(1) Restricted band.								

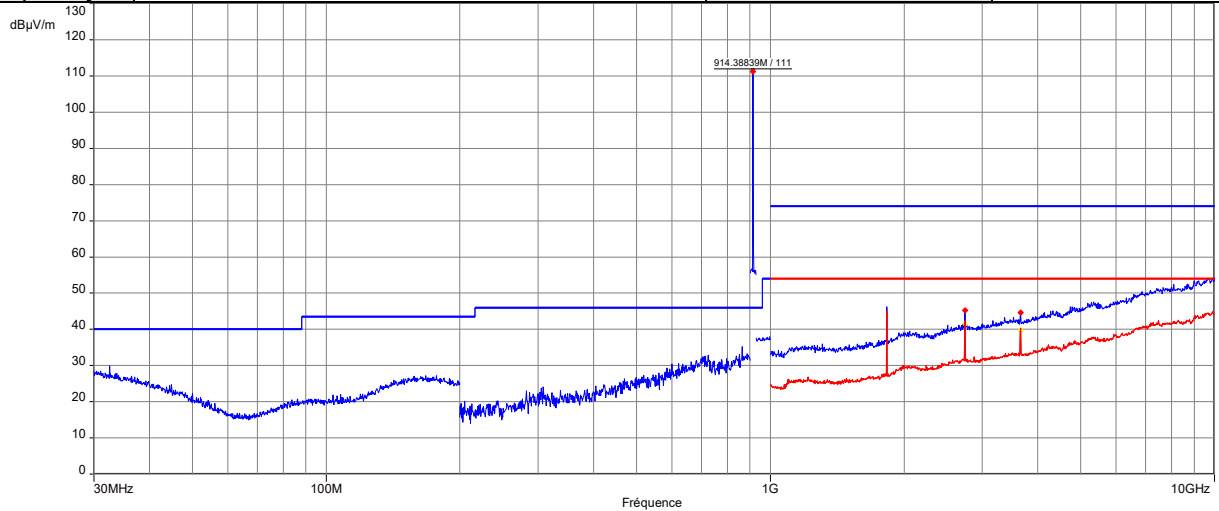
Graphical representation of Radiated Disturbance Measurement (Peak detection, Full Anechoic Chamber pre-scan, 30MHz-10GHz / 3m / Transmit mode / Worst position)

Center frequency: 914.2 MHz

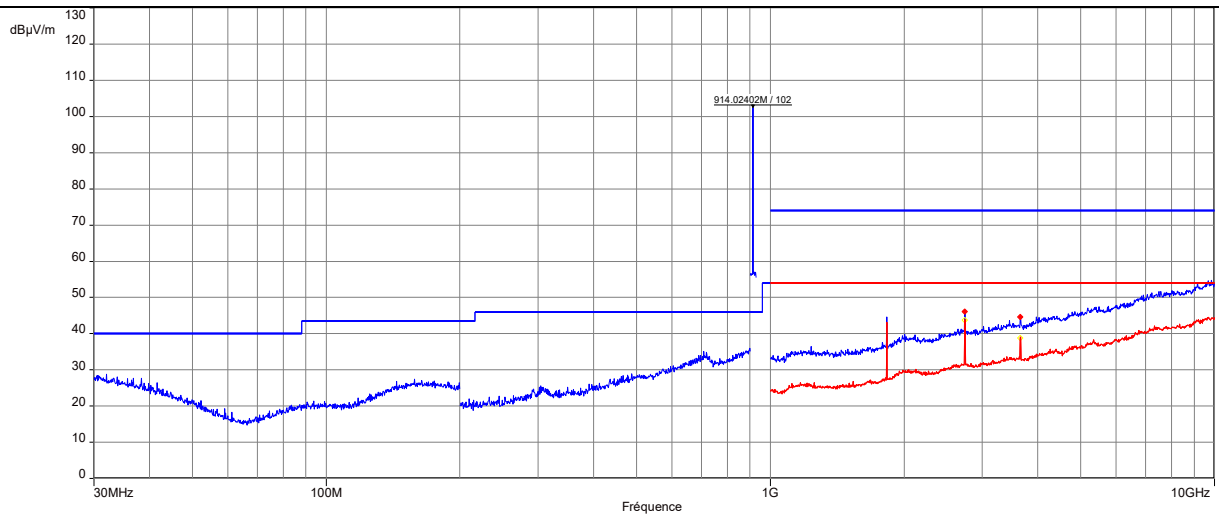
Mode

DTS

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



FREQ	Field level	Field level	Limit	Margin	Limit	Margin	Table angle	Ant height	Total factor	Pol	Note
MHz	(PK) dBμV /m	(AV) dBμV/m	(PK) dBμV/m	(PK) dB	(AV) dBμV/m	(AV) dB	Degree	m	dB		
2742.13006	48.27	38.77	74.00	-25.73	54.00	-15.23	191.40	1.92	-5.95	H	(1)
3656.46543	45.42	34.06	74.00	-28.58	54.00	-19.94	193.90	1.55	-4.33	H	(1)
2742.18088	47.71	36.40	74.00	-26.29	54.00	-17.60	162.10	1.12	-5.95	V	(1)
3657.35139	44.19	30.87	74.00	-29.81	54.00	-23.13	107.60	1.13	-4.33	V	(1)
RBW :			100kHz < 1GHz and 1MHz > 1GHz.								
Final measurement detector:			Quasi-Peak below 1GHz. Peak and CISPR Average above 1GHz.								
Note:			(1) Restricted band.								

End of report