

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: ALARM.COM VIDEO DOORBELL

FCC Applicant: ALARM.COM INCORPORATED
8281 GREENSBORO DRIVE, SUITE 100. TYSONS, VIRGINIA 22102. USA.

FCC Manufacturer: ALARM.COM INCORPORATED
8281 GREENSBORO DRIVE, SUITE 100. TYSONS, VIRGINIA 22102. USA.

Brand Name: ALARM.COM

Model No: ADC-VDB750

Report Number: TERF2601000222ER

FCC ID: YL6-143VDB750

Date of EUT Received: N/A, the test results are fully leveraged from test report number *TERF2601000224ER*, for more details please refer to section 2 in this report.

Date of Test: N/A, the test results are fully leveraged from test report number *TERF2601000224ER*, for more details please refer to section 2 in this report.

Issue Date: February 13, 2026

CHUN-CHIEH, CHEN

Approved By

Chun Chieh Chen

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2020 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2601000222ER	00	Original	February 13, 2026	Mini Yeh	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	ALARM.COM VIDEO DOORBELL
Brand Name:	ALARM.COM
Model No.:	ADC-VDB750
Hardware Version:	N/A
Firmware Version:	N/A
Power Supply:	16 Vdc
Test Software (Name/Version)	Tera Term/v4.84

1.2 RF Specification

Radio Technology:	LoRa Hybrid
Frequency Range:	902.3MHz to 914.9MHz
Channel number:	64 channels
Modulation type:	CSS
Transmit Power:	21 dBm (Peak)
Dwell Time:	<= 0.4s

1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	902MHz – 928MHz	-7

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. The antenna information is provided by the applicant. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
3. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.

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1.4 Operating Frequencies

902~928 MHz (125kHz)		902~928 MHz (125kHz)	
CH	Freq. (MHz)	CH	Freq. (MHz)
0	902.3	32	908.7
1	902.5	33	908.9
2	902.7	34	909.1
3	902.9	35	909.3
4	903.1	36	909.5
5	903.3	37	909.7
6	903.5	38	909.9
7	903.7	39	910.1
8	903.9	40	910.3
9	904.1	41	910.5
10	904.3	42	910.7
11	904.5	43	910.9
12	904.7	44	911.1
13	904.9	45	911.3
14	905.1	46	911.5
15	905.3	47	911.7
16	905.5	48	911.9
17	905.7	49	912.1
18	905.9	50	912.3
19	906.1	51	912.5
20	906.3	52	912.7
21	906.5	53	912.9
22	906.7	54	913.1
23	906.9	55	913.3
24	907.1	56	913.5
25	907.3	57	913.7
26	907.5	58	913.9
27	907.7	59	914.1
28	907.9	60	914.3
29	908.1	61	914.5
30	908.3	62	914.7
31	908.5	63	914.9

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1.5 EUT Availability and The Worst Test Modes

- 1 The EUT has been tested under operating condition.
- 2 Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3 The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
- 4 Investigation has been done on all the possible configurations for searching the worst case.

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CONDUCTED TEST			
MODE	AVAILABLE FREQUENCY (MHz)	TEST FREQUENCY (MHz)	MODULATION
LoRa_125kHz	902.3MHz to 914.9MHz	902.3,908.7,914.9	CSS
ANTENNA PORT CONDUCTED TEST			
MODE	AVAILABLE FREQUENCY (MHz)	TEST FREQUENCY (MHz)	MODULATION
Peak Output Power, 20dB Band Width, Spurious Emission			
LoRa_125kHz	902.3MHz to 914.9MHz	902.3,908.7,914.9	CSS
Band Edge			
LoRa_125kHz	902.3MHz to 914.9MHz	902.3,914.9	CSS
Frequency Separation			
LoRa_125kHz	902.3MHz to 914.9MHz	902.3,902.5,902.7 908.5,908.7,908.9 914.5,914.7,914.9	CSS
Number of Hopping Frequency, Hopping Band edge			
LoRa_125kHz	902.3MHz to 914.9MHz	902.3 to 914.9	CSS
Time of Occupancy(Dwell time)			
LoRa_125kHz	902.3MHz to 914.9MHz	902.3	CSS

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)			
MODE	AVAILABLE FREQUENCY(MHz)	TEST FREQUENCY (MHz)	MODULATION
LoRa Hybird	902.3MHz to 914.9MHz	902.3 , 908.7 , 914.9	CSS
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)			
MODE	AVAILABLE FREQUENCY(MHz)	TEST FREQUENCY (MHz)	MODULATION
LoRa Hybird	902.3MHz to 914.9MHz	902.3 , 908.7 , 914.9	CSS

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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.207(a)	AC Power Line Conducted Emission	Compliant	
§15.215(c)	Emission Bandwidth	Compliant	
§15.247(b)(2)	Maximum Output Power	Compliant	
§15.247(f)	Power spectral density	Compliant	
§15.247(f)	Time of Occupancy	Compliant	
§15.247(a)(1)	Channel Separation	Compliant	
§15.247(f)	Number of Hopping Channels	Compliant	
§15.205 §15.209 §15.247(d)	Unwanted Emission	Compliant	
§15.203	Antenna Requirement	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2601000224ER.

2.1 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas. Guidance v05r02

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Frequency Separation	+/- 1.48 Hz
Number of hopping frequency	+/- 1.48 Hz
Time of Occupancy	+/- 1.48 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.71 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.84 dB	140GHz-220GHz

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation Number / Registration Number	ISED CAB identifier/ Company Number
TW3702 / 4620A	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027 / 891563	TW3702 / 4620A
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028 / 200037	TW3702 / 4620E
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: The test site name is noted on the equipment list to indicate where the measurements were conducted.

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted E	Henry Chiang	50407435023E	21.2~22.3°C / 70~65%	2025/12/17 ~ 2026/01/29
Radiated	SAC G Chamber	Temo Chen	504074350244	21.9~22.3°C / 42~53%	2026/01/27 ~ 2026/01/28
Conduction	Conduction C	Temo Chen	504074350244	20.6°C / 54%	2026/01/14 ~ 2026/01/14

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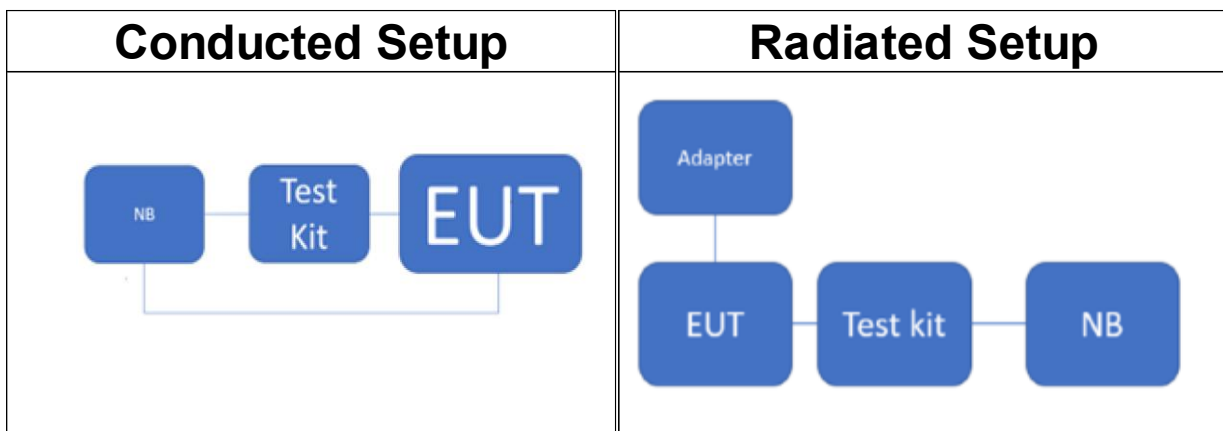
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3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

1. An engineering test mode provided by the applicant was used to control the EUT transmission, test channel, and modulation.
2. The spectrum analyzer offset was set to compensate for RF cable loss and attenuation between the EUT and the analyzer, ensuring the reading reflects the actual RF output level. Duty factor compensation was also applied where applicable.

3.2 Diagrams



3.3 List

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit	LCC Fusion	Fusion Breakout Board	N/A	N/A	N/A
Micro USB Cable	ronever	VPC-70	N/A	N/A	N/A
Notebook	Lenove	T490	P0002550	N/A	N/A
Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit	LCC Fusion	Fusion Breakout Board	N/A	N/A	N/A
Adapter	Sunny-Hung	ADC-VD750-J	N/A	N/A	N/A
Notebook	Lenovo	T440p	P0000665	N/A	N/A
AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit	LCC Fusion	Fusion Breakout Board	N/A	N/A	N/A
Adapter	Sunny-Hung	ADC-VD750-J	N/A	N/A	N/A
Notebook	Lenovo	T440p	P0000665	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Marvelous	MVE2213-10	RF05	11/13/2025	11/12/2026
DC Block	PASTERNAK	PE8210	RF34	11/13/2025	11/12/2026
Power Meter	Anritsu	ML2496A	1326001	07/29/2025	07/28/2026
Power Sensor	Anritsu	MA2411B	1315048	07/29/2025	07/28/2026
Power Sensor	Anritsu	MA2411B	1315049	07/29/2025	07/28/2026
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	04/02/2025	04/01/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

4.2 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber G	N/A	03/30/2025	03/29/2026
800-1000 Notch Filter	Woken	EWT-54-0037	RF190	11/13/2025	11/12/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/16/2025	12/15/2026
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/08/2026	01/07/2027
Coaxial Cable	EMCI+Huber Suhner	EMCCFD400-NM-NM-8000+EMCCFD400-NM-NM-5000+SUCOFLEX100+EMC104-SM-SM-2000+EMC104-SM-SM-8000+EMC104-SM-SM-5000	210216+210217+84103701/15+160105+210217+210220	11/13/2025	11/12/2026
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/15/2025	04/14/2026
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC330N	980781	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/13/2025	02/12/2026

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4.3 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2025	03/26/2026
EMI Test Receiver	R&S	ESCI	101342	04/23/2025	04/22/2026
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/18/2025	04/17/2026
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2025	03/26/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

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5 REGULATORY REQUIREMENTS

5.1 Emission Bandwidth

Intentional radiators of hybrid system must be designed to ensure their 20 dB emission bandwidth stays within the designated frequency band, as specified in the applicable regulations.

5.2 Channel Separation

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

5.3 Number Of Hopping Channels

This is the factor to determine applicable Maximum Output Power and Time of Occupancy.

5.4 Maximum Output Power

Hopping Channels	Peak Conducted Output Power
Less than 50	0.25W
Greater than 50	1W

5.5 Power Spectral Density

The power spectral density conducted from the intentional radiator to the antenna due to the digital modulation operation of the hybrid system, with the frequency hopping operation turned off, shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.6 Time Of Occupancy (Dwell Time)

The frequency hopping operation of the hybrid system, with the direct sequence or digital modulation operation turned-off, shall have an average time of occupancy on any frequency not to exceed 0.4 seconds within a time period in seconds equal to the number of hopping frequencies employed multiplied by 0.4.

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5.7 Out Of Band Emission

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits.

5.8 Unwanted Emission

5.8.1 Duty Cycle Correction Factor

The measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification.

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5.8.2 Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the limit as below.

For an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note: The lower limit shall apply at the transition frequencies.

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5.9 AC Power Line Conducted Emission

Frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

5.10 Antenna Requirements

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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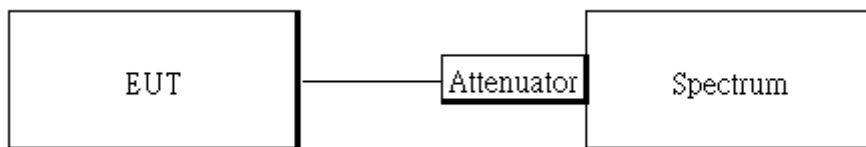
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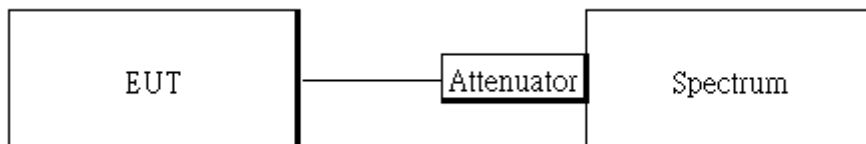
6 TEST CONFIGURATION

6.1 Emission Bandwidth



1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as
RBW= 1 % to 5% of OBW and without going below 1kHz,
VBW $\geq 3 \times$ RBW,
Span= 2 to 5 times OBW,
Sweep=auto,
Detector = Peak, and Max hold.
4. Use the 99% power bandwidth and X dB bandwidth mode function of the spectrum analyzer and set to 20dB
5. Repeat above procedures until all test default channel is completed.

6.2 Channel Separation

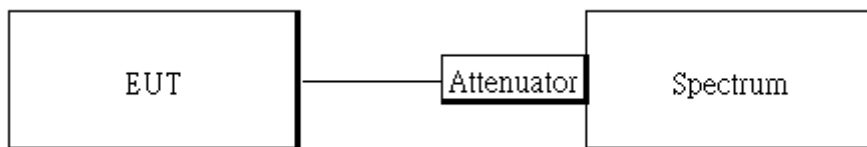


1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as
center frequency = middle of hopping channel
RBW = approximately 30% of the channel spacing,
VBW $\geq 1/10$ of RBW.
Adjust Span to Wide enough to capture the peaks of two adjacent channels.
Sweep = auto.
4. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

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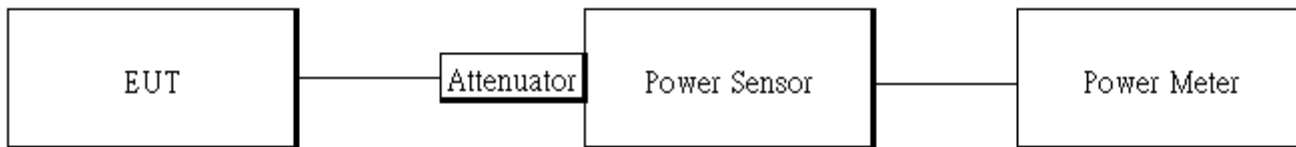
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6.3 Number Of Hopping Channels



1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as
Span = The frequency band of operation.
RBW = less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller;
VBW $\geq$ 1/10 of RBW;
Detector = Peak
Sweep = auto
Max hold, view and count how many channels in the band

6.4 Maximum Output Power



1. Place the EUT on the table and set it in transmitting mode.
2. Duty cycle of test signal is < 98 %, duty factor shall be considered.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW $\geq$ 20dB bandwidth)
4. Record the max. reading.
5. Repeat above procedures until all default test channel is completed.

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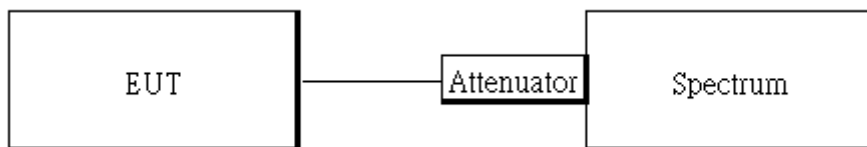
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6.5 Maximum Power Spectral Density



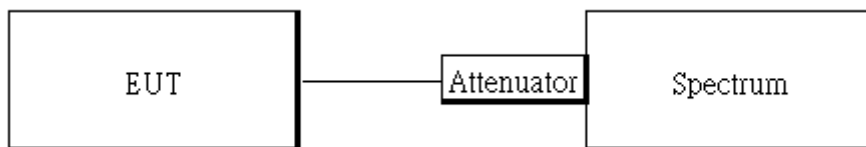
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span >1.5 times the DTS channel bandwidth.
3. Set the RBW = 3 kHz. & the VBW = 10 kHz
4. Set Detector =average.
5. Sweep time = auto couple.
6. Set Trace mode =average.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level.

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6.6 Time Of Occupancy (Dwell Time)

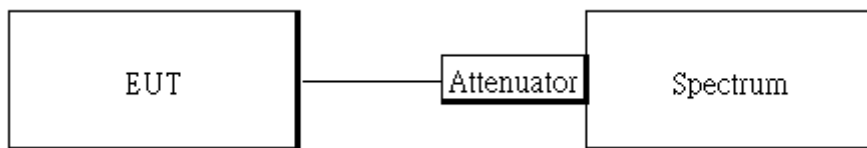


1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as
center frequency = operating frequency
RBW= 1MHz
VBW = 3MHz,
Span = 0Hz,
Detector = Peak,
Adjust Sweep = Number of Hopping Channels * 0.4s
4. Repeat above procedures until all frequency of the interest measured were complete.

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6.7 Out Of Band Emission



6.7.1 Conducted Band Edge:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set the spectrum analyzer as
center frequency = operating frequency.
RBW=100 kHz,
VBW=300 kHz,
Sweep = auto
5. Mark the highest readings of the emissions outside of 902-928 MHz.
6. Repeat above procedures until all frequency measured were complete.

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6.7.2 Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. Set the spectrum analyzer as
RBW = 100 kHz
VBW = 300 kHz,
Detector = Peak,
Sweep = Auto
3. Allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
5. Repeat above procedures until all default test channel measured were complete.

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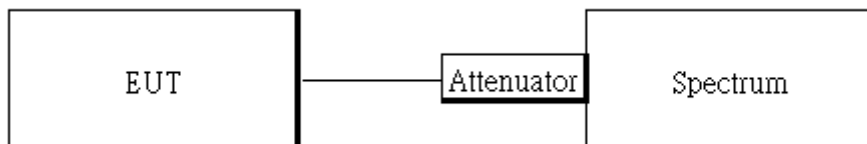
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6.8 Unwanted Emission

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

6.8.1 Duty Cycle Correction Factor



1. Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the “worst-case” pulse ON time.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as
center frequency = operating frequency.
RBW=1MHz,
VBW=3MHz,
Span = 0Hz ,
Detector = Peak,
Adjust Sweep=100ms.
4. Repeat above procedures until all data rate of the interest measured were complete.

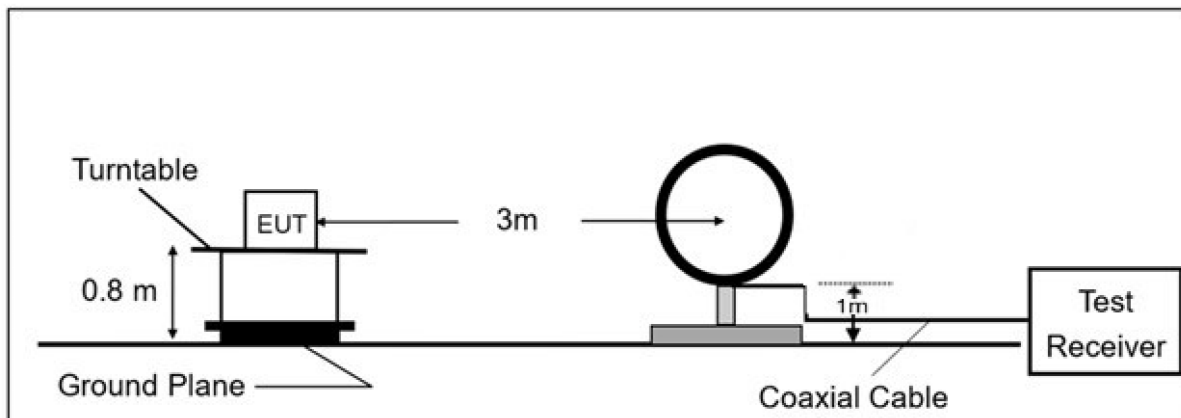
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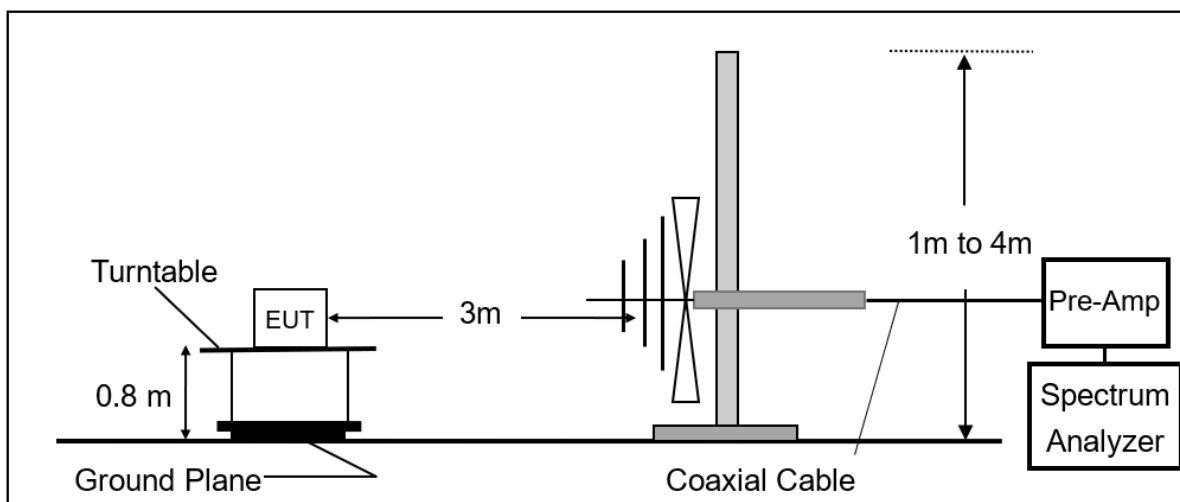
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6.8.2 Radiated Emission

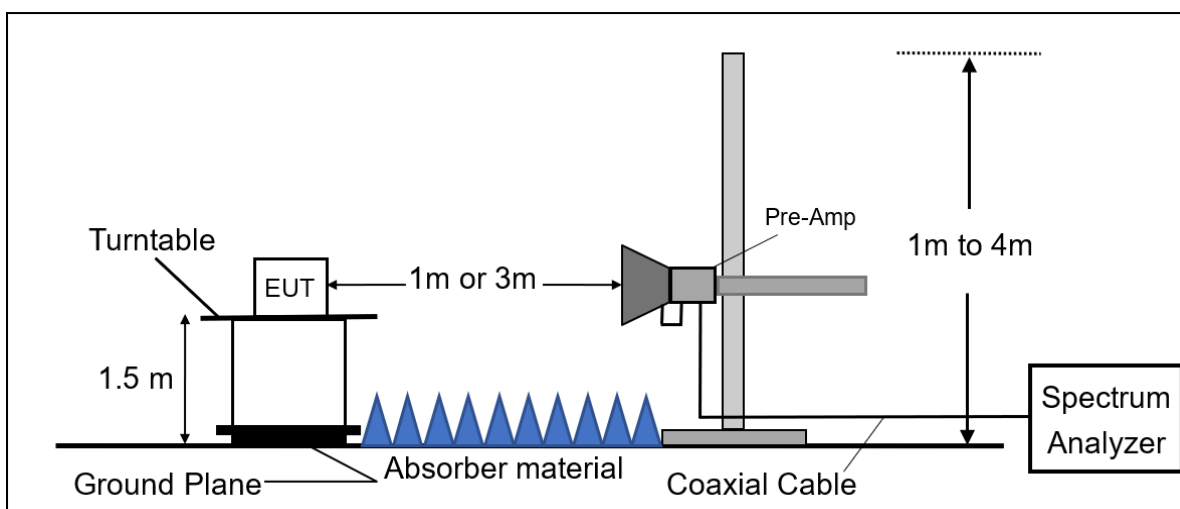
Radiated Emission Test Set-Up, Frequency Below 30MHz.



Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1 GHz.



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1. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
5. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
7. According to C63.10 procedure for determining the average value of pulsed emissions with duty cycle correction factor $20 \log (T_{on}/100ms)$.
8. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all default test channel measured were complete.

Note: The emissions from 9 kHz to 30MHz was pre-scanned as 20dB lower than the limits and hence not reported.

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6.8.1 Field Strength Calculation

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

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

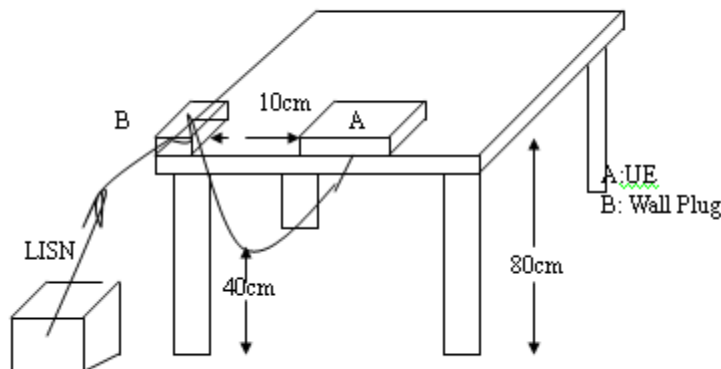
Where *FS* = Field Strength(dBμV/m) *CL* = Cable Attenuation Factor (Cable Loss) (dB)
RA = Reading Amplitude(dBμV) *AG* = Amplifier Gain (dB)
AF = Antenna Factor (dBμV/m)

*The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m)*

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6.9 AC Power Line Conducted Emission



1. The conducted emission tests were performed at the designated test site using a setup in accordance with ANSI C63.10.
2. The EUT was placed on a non-conductive table that is 0.8 meters above the ground plane. Conducted emissions were measured in the frequency range from 0.15 MHz to 30 MHz using CISPR Quasi-Peak and Average detector modes. The two LISNs provided 50 μ H / 50 ohm coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
3. The AC/DC power adaptor of the EUT was connected to the LISN. The EUT was positioned flush with the rear edge of the table, with a minimum 0.4-meter distance from the shielding wall.
4. The LISNs were connected to the power source and configured according to the test requirements.
5. The maximum emission levels were investigated for each mode of operation. The six highest emissions were further maximized to ensure compliance.
6. The above procedures were repeated for all power supply configurations of the EUT.

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

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7 TEST RESULTS

7.1 Emission Bandwidth

7.1.1 20dB Bandwidth

Hybrid

LoRa_125kHz mode

Frequency (MHz)	20dB BW (MHz)
902.3	0.1378
908.7	0.1402
914.9	0.1387

Hybrid Hopping

LoRa_125kHz

CH	20 dB BW (MHz)	2/3 BW (MHz)
0	0.1378	0.09
32	0.1402	0.09
63	0.1387	0.09

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7.1.1 99% Bandwidth
Hybrid

LoRa_125kHz mode

Frequency (MHz)	99%Bandwidth (MHz)
902.3	0.12596
908.7	0.12672
914.9	0.12638

Hybrid Hopping

99% Bandwidth:

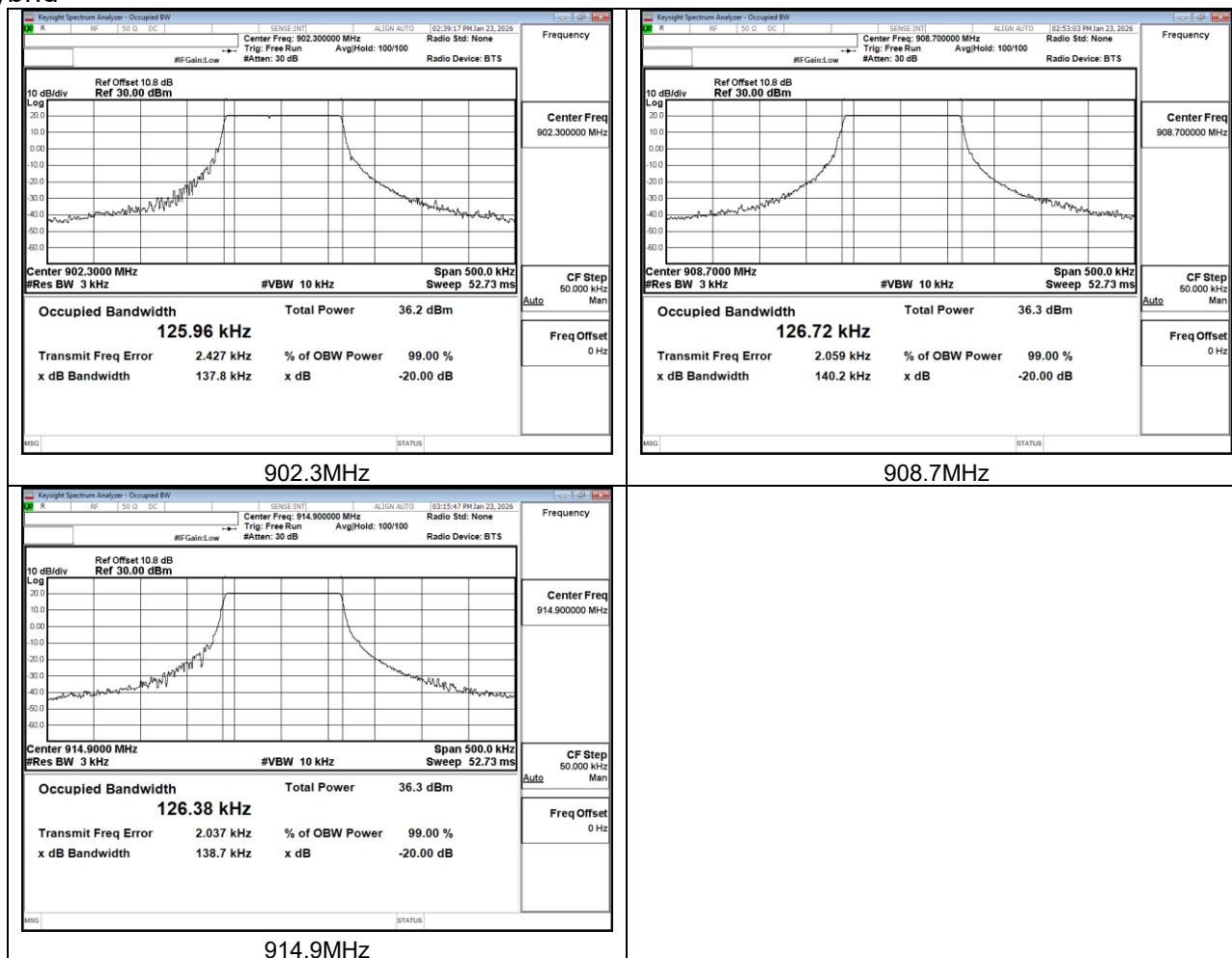
LoRa_125kHz

CH	99% BW (MHz)
0	0.12596
32	0.12672
63	0.12638

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Hybrid



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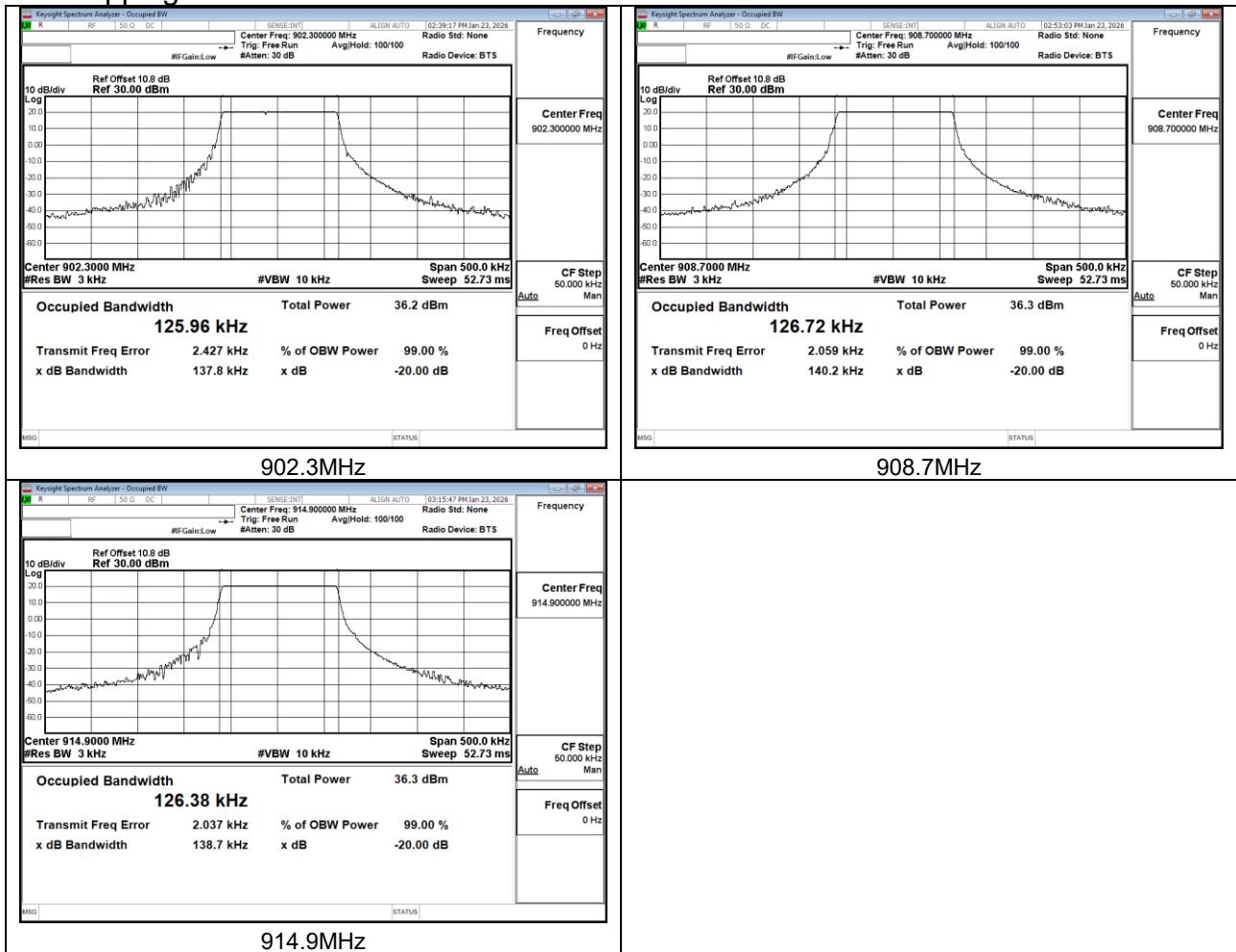
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Hybrid Hopping



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7.2 Channel Separation



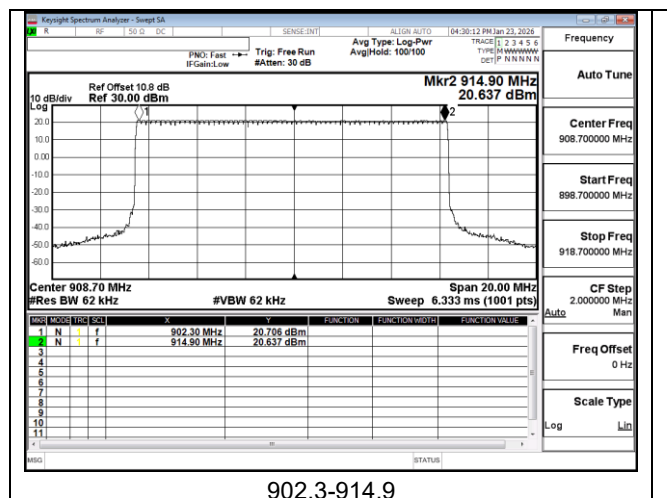
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7.3 Number Of Hopping Frequency

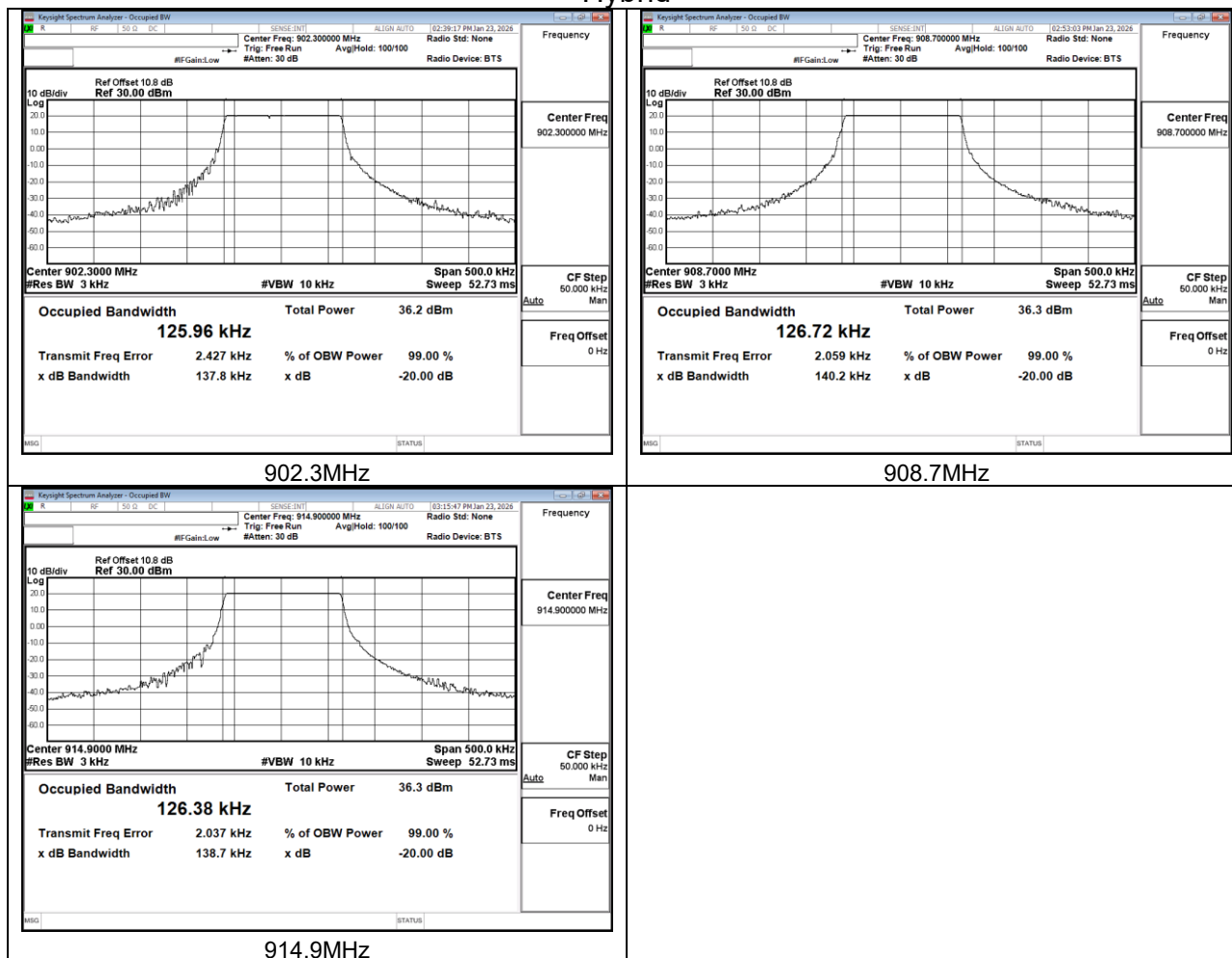


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Hybrid



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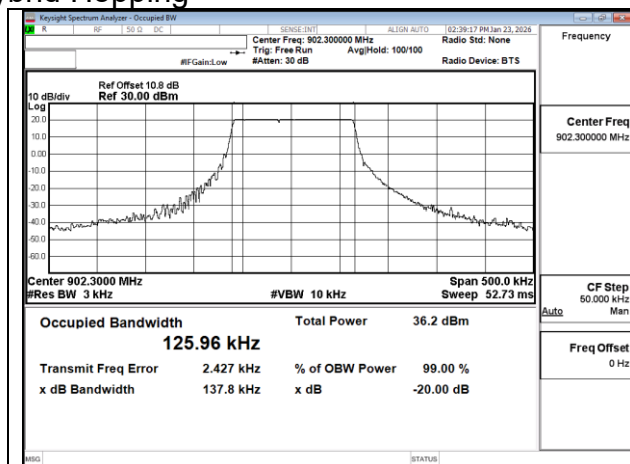
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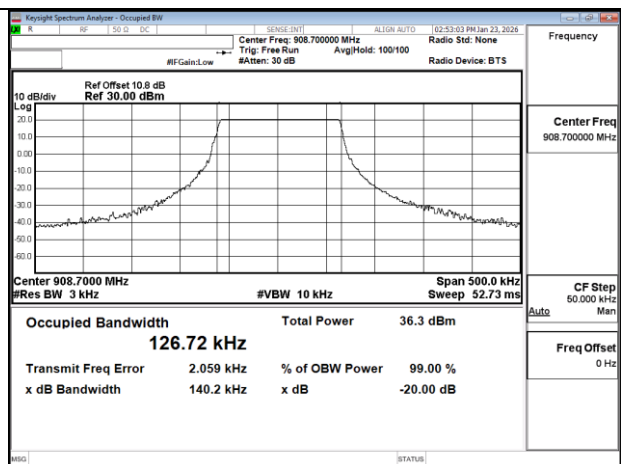
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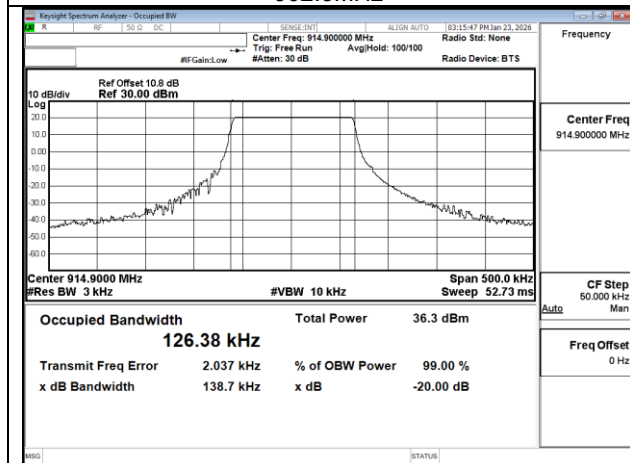
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902.3MHz



908.7MHz



914.9MHz

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7.4 Maximum Output Power

Hybrid

LoRa_125kHz mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	902.3	4	20.76	30
32	908.7	4	21.00	30
63	914.9	4	20.91	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	902.3	4	20.32	30
32	908.7	4	20.43	30
63	914.9	4	20.38	30

Hybrid Hopping

LoRa_125kHz mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	902.3	4	20.76	119.124	1000
32	908.7	4	21.00	125.893	1000
63	914.9	4	20.91	123.310	1000

LoRa_125kHz mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	902.3	4	20.32	107.727	1000
32	908.7	4	20.43	110.490	1000
63	914.9	4	20.38	109.225	1000

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7.4.1 EIRP Measurement Result

Hybrid

EIRP LoRa_125kHz mode

CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit		
0	902.3	default	20.32	-7.00	13.32	4W=	36	dBm
32	908.7	default	20.43	-7.00	13.43	4W=	36	dBm
63	914.9	default	20.38	-7.00	13.38	4W=	36	dBm

* **Note:** EIRP = Average Power + Gain

Hybrid Hopping

LoRa_125kHz mode EIRP

Channel	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
0	902.3	default	20.32	-7.00	21.494	4000
32	908.7	default	20.43	-7.00	22.046	4000
63	914.9	default	20.38	-7.00	21.793	4000

* **Note:** EIRP = Average Power + Gain

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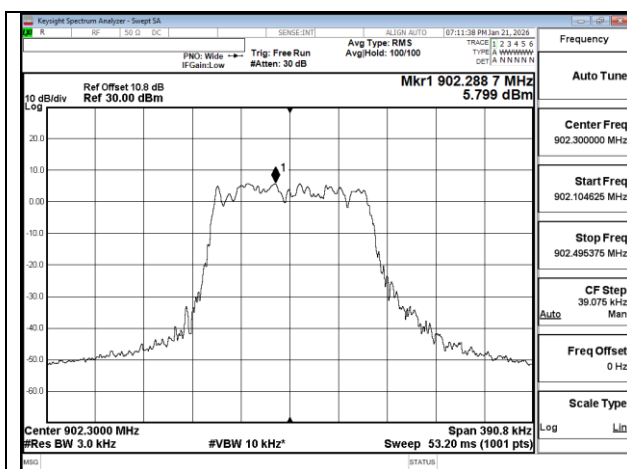
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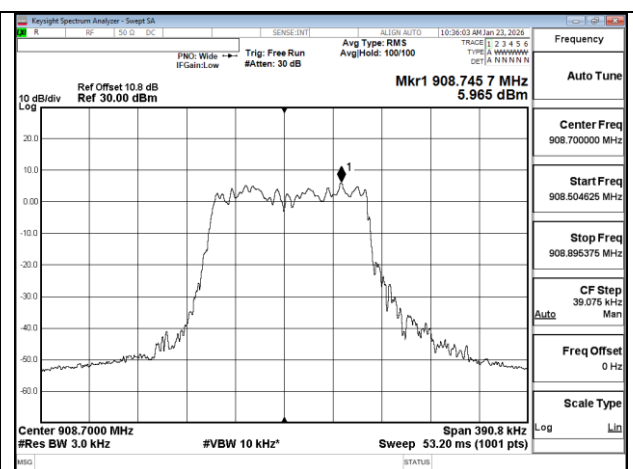
7.5 Maximum Power Spectral Density

LoRa_125kHz mode

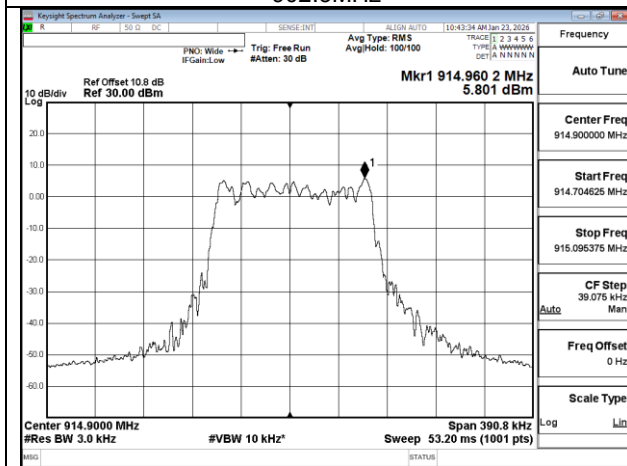
Frequency (MHz)	RF Power Density (dBm/3kHz)	Duty factor	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
902.3	5.799	0.48	6.28	8	PASS
908.7	5.965	0.48	6.45	8	PASS
914.9	5.801	0.48	6.28	8	PASS



902.3MHz



908.7MHz



914.9MHz

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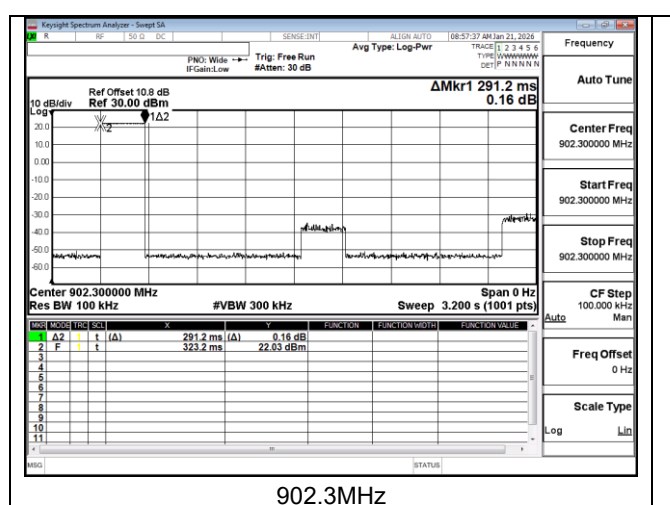
7.6 Time Of Occupancy (Dwell Time)

Hybrid Hopping

LoRa

Channel	PACKET TYPE	Number of transmission in a 20s	Dwell Time (ms)	Limit (ms)
908.7	LoRa_125kHz	1	288.8	400

Hybrid Hopping



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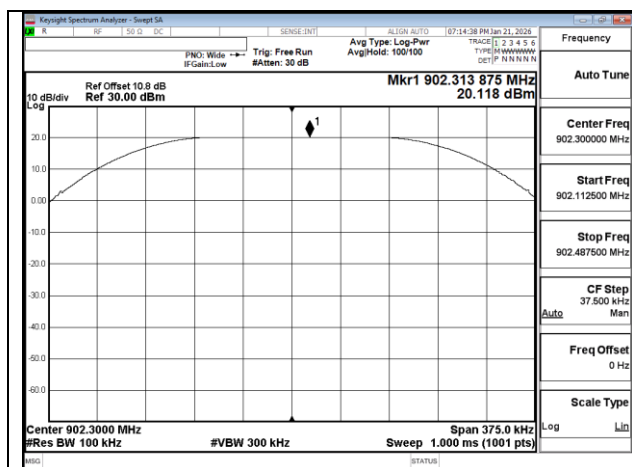
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7.7 Out Of Band Emission

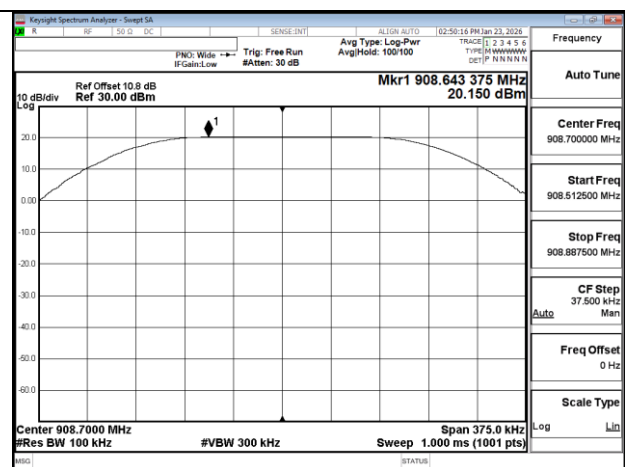
Hybrid

LoRa_125kHz_Reference Level of Limit

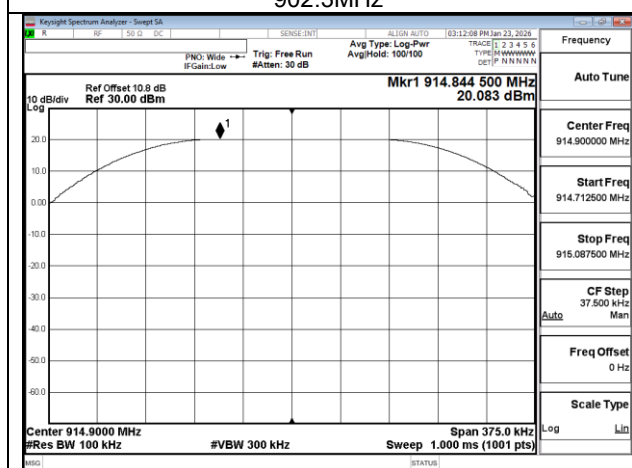
Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 30dB (dBm)
902.3	20.118	-9.88
908.7	20.150	-9.85
914.9	20.083	-9.92



902.3MHz



908.7MHz

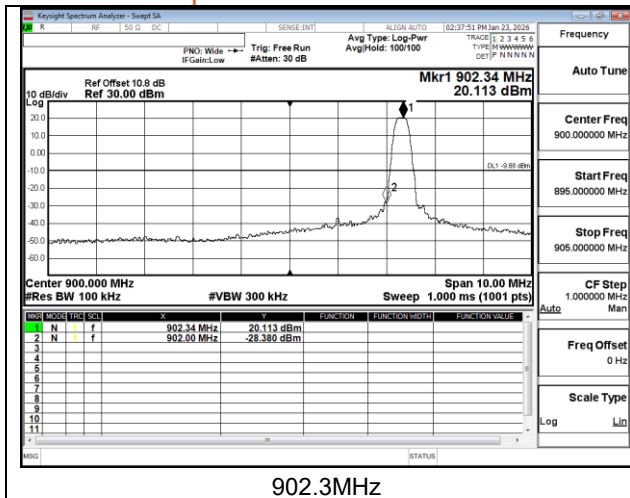


914.9MHz

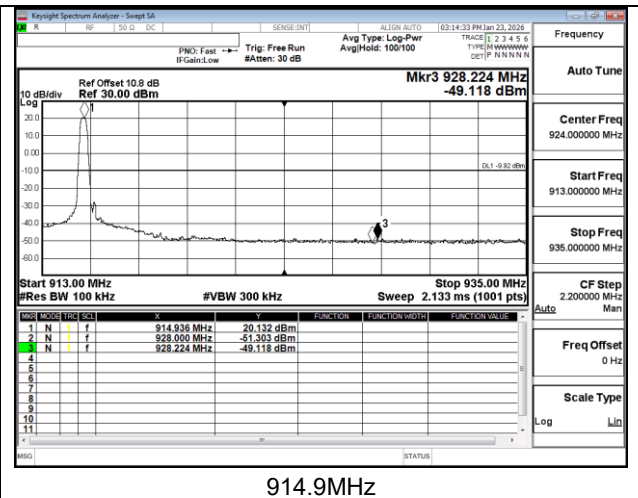
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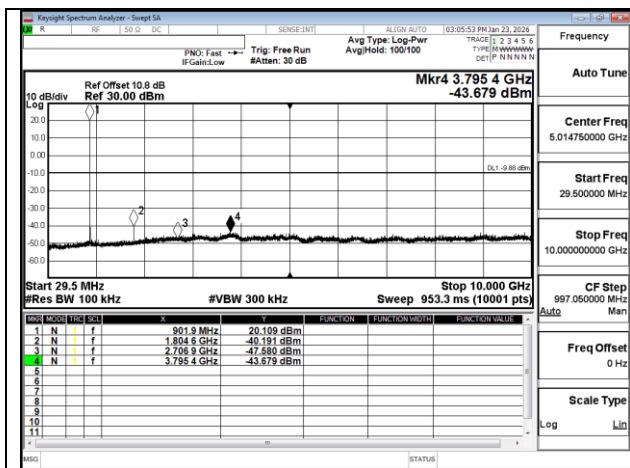
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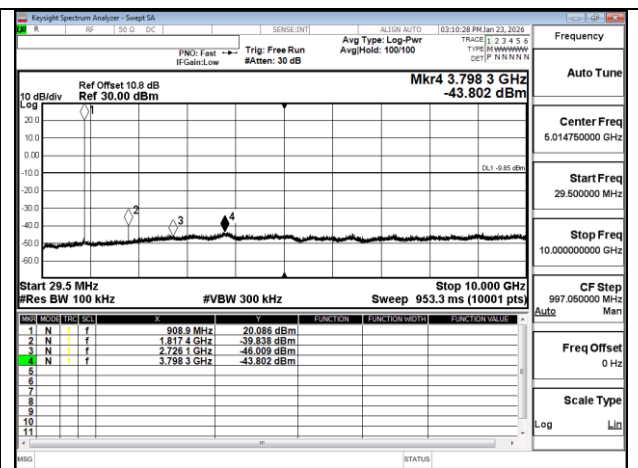
902.3MHz



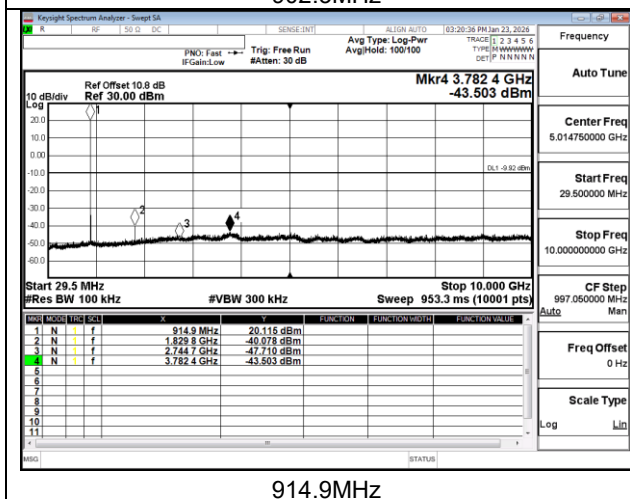
914.9MHz



902.3MHz



908.7MHz



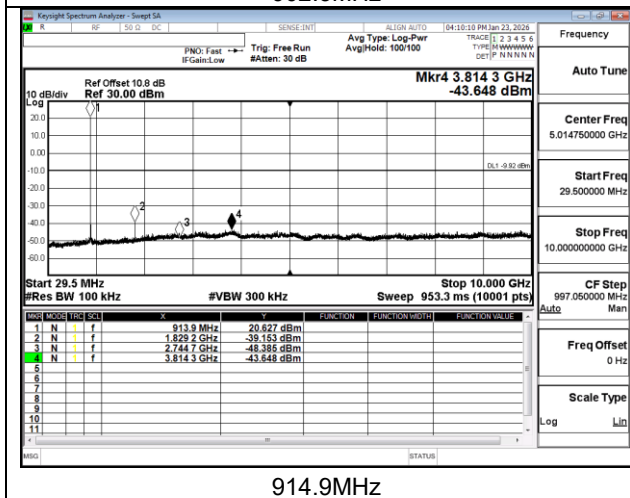
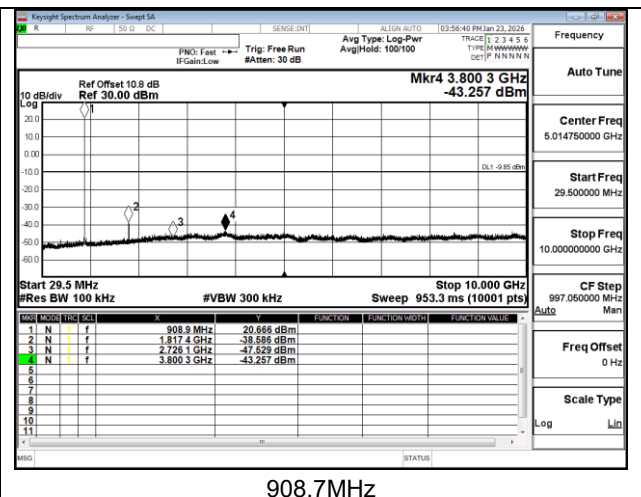
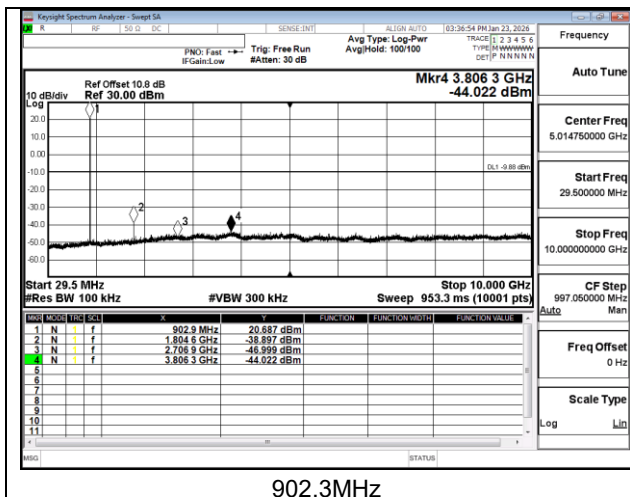
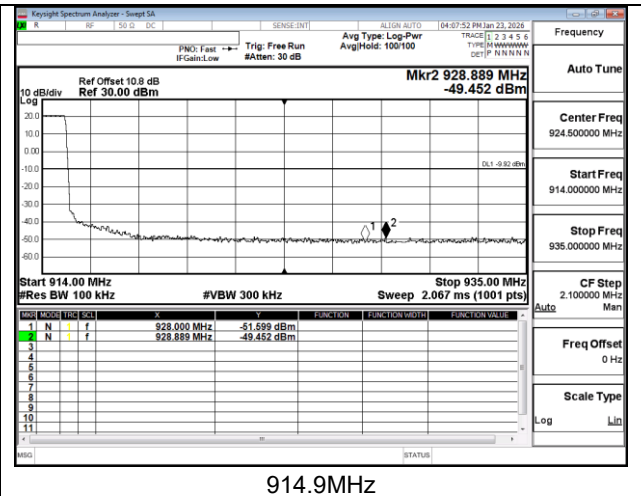
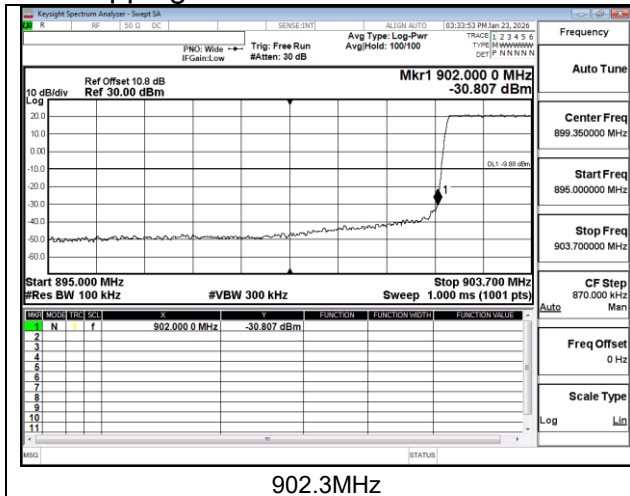
914.9MHz

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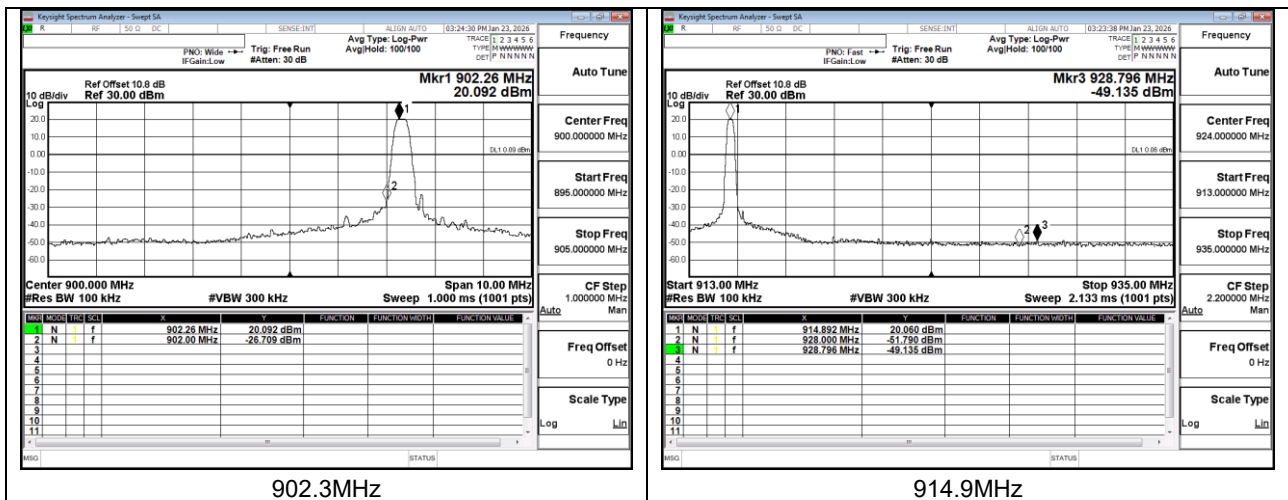
Hybrid Hopping



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7.8 Unwanted Emission

7.8.1 Duty Cycle Correction Factor

Hybrid

<i>Duty Cycle</i>				
Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
LoRa_125kHz	89.47	0.48	0.00	1.00

Hybrid Hopping

<i>Duty Cycle</i>		
Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)
LoRa_125kHz	89.47	0.48

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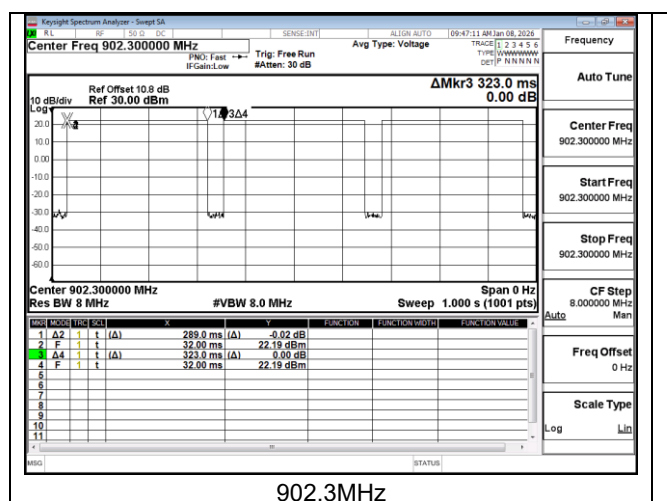
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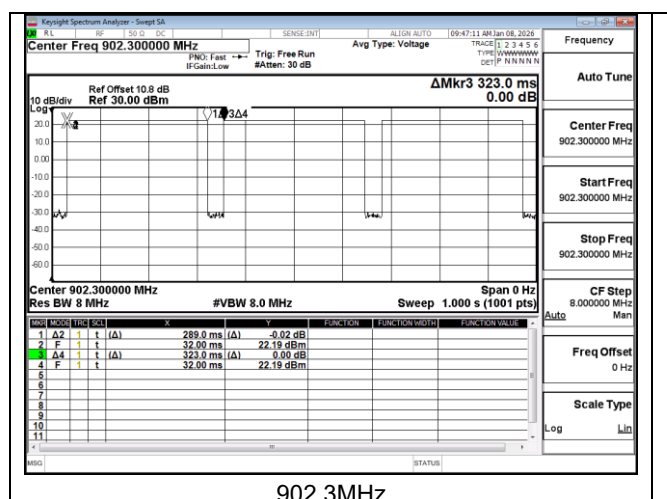
7.8.2 Duty Cycle test plot

Hybrid



902.3MHz

Hybrid Hopping



902.3MHz

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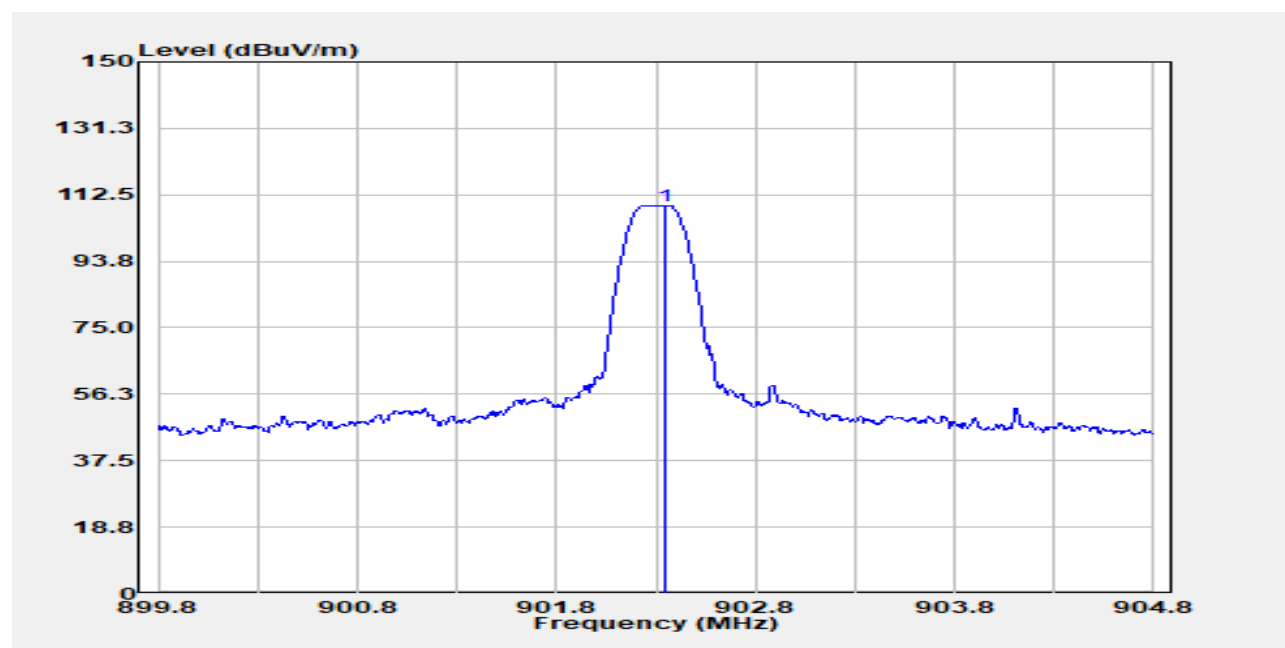
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7.8.3 Main and Band edge Result

Report Number :TERF2601000224ER
Operation Mode :LoRa 125KHz Hybird
Test Frequency :902.3 MHz
Test Mode :Main
EUT Pol :H Plane

Test Site :SAC G Chamber
Test Date :2026-01-27
Temp./Humi. :21.9°C/45%
Antenna Pol. :Vertical
Engineer :Temo Chen



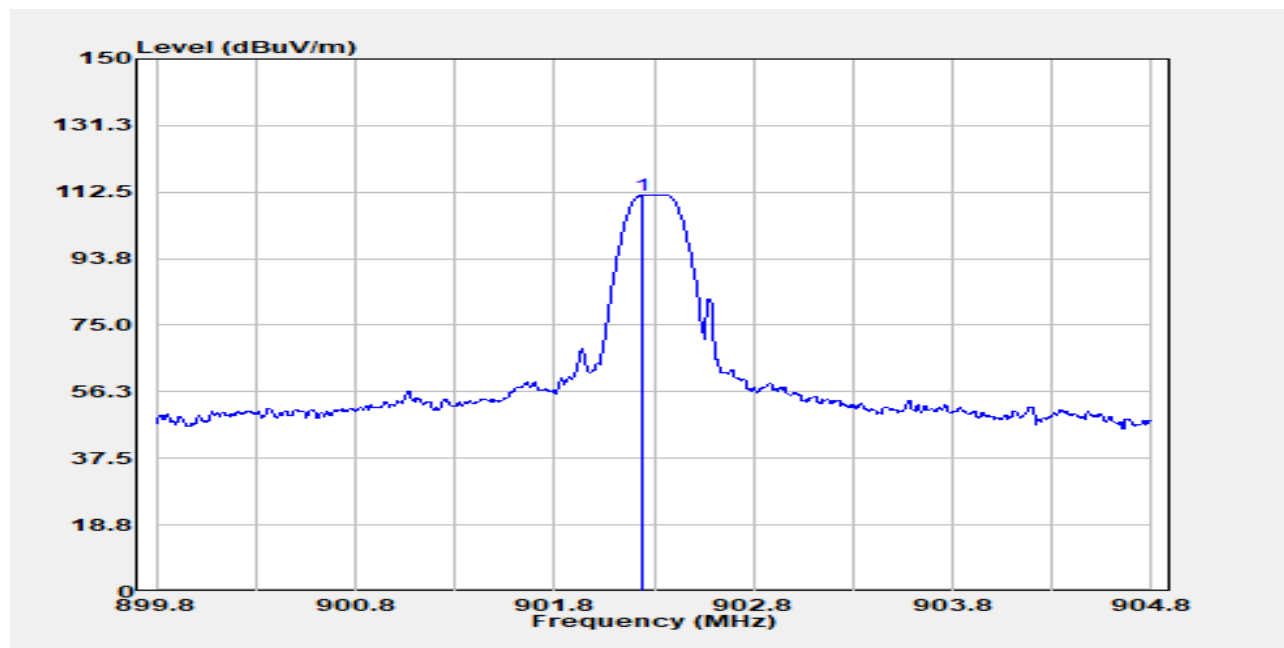
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
902.34	Peak	110.06	-0.55	109.51	-	-

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Report Number :TERF2601000224ER
Operation Mode :LoRa 125KHz Hybird
Test Frequency :902.3 MHz
Test Mode :Main
EUT Pol :H Plane

Test Site :SAC G Chamber
Test Date :2026-01-27
Temp./Humi. :21.9°C/45%
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
902.25	Peak	112.27	-0.56	111.71	-	-

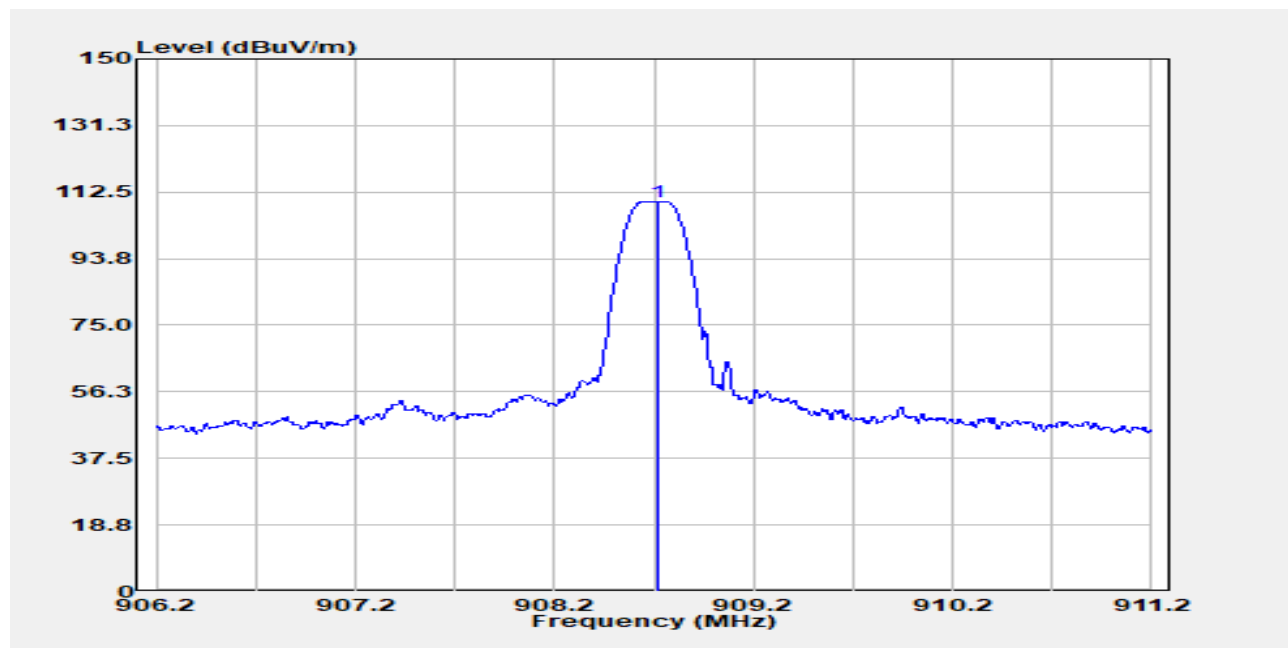
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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird
 Test Frequency :908.7 MHz
 Test Mode :Main
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-27
 Temp./Humi. :21.9°C/45%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
908.72	Peak	110.18	-0.41	109.77	-	-

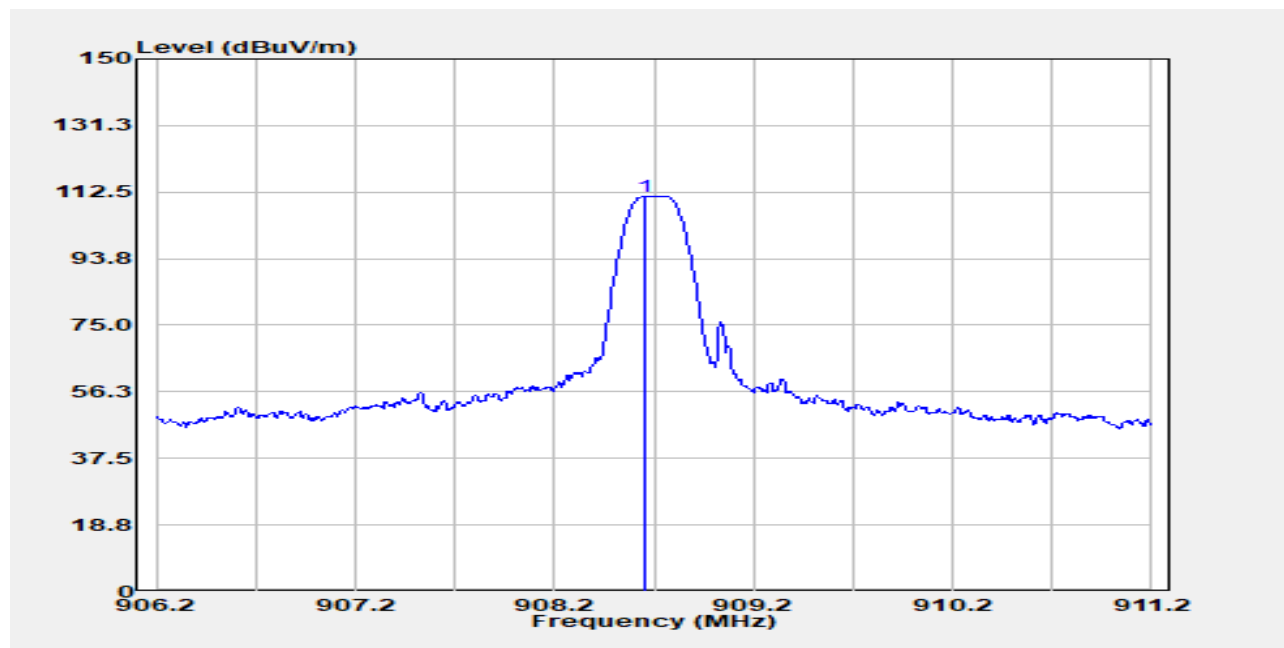
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Report Number :TERF2601000224ER
Operation Mode :LoRa 125KHz Hybird
Test Frequency :908.7 MHz
Test Mode :Main
EUT Pol :H Plane

Test Site :SAC G Chamber
Test Date :2026-01-27
Temp./Humi. :21.9°C/45%
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
908.65	Peak	111.65	-0.41	111.24	-	-

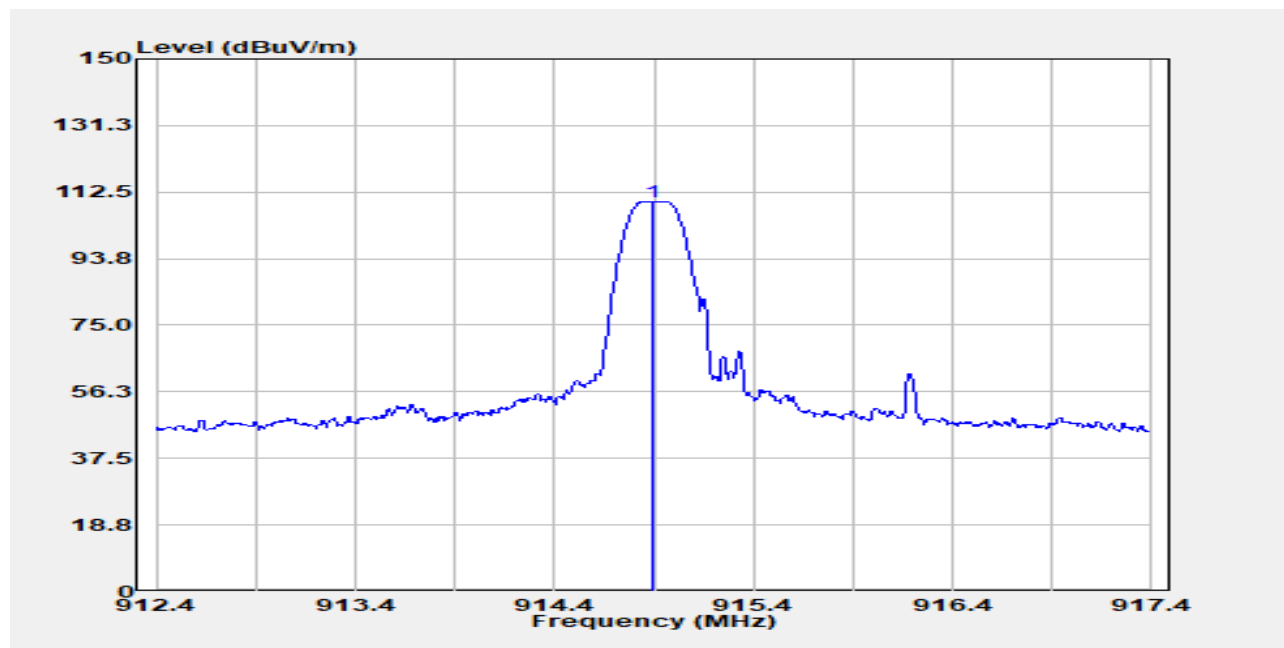
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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird
 Test Frequency :914.9 MHz
 Test Mode :Main
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-27
 Temp./Humi. :21.9°C/45%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
914.90	Peak	110.10	-0.27	109.83	-	-

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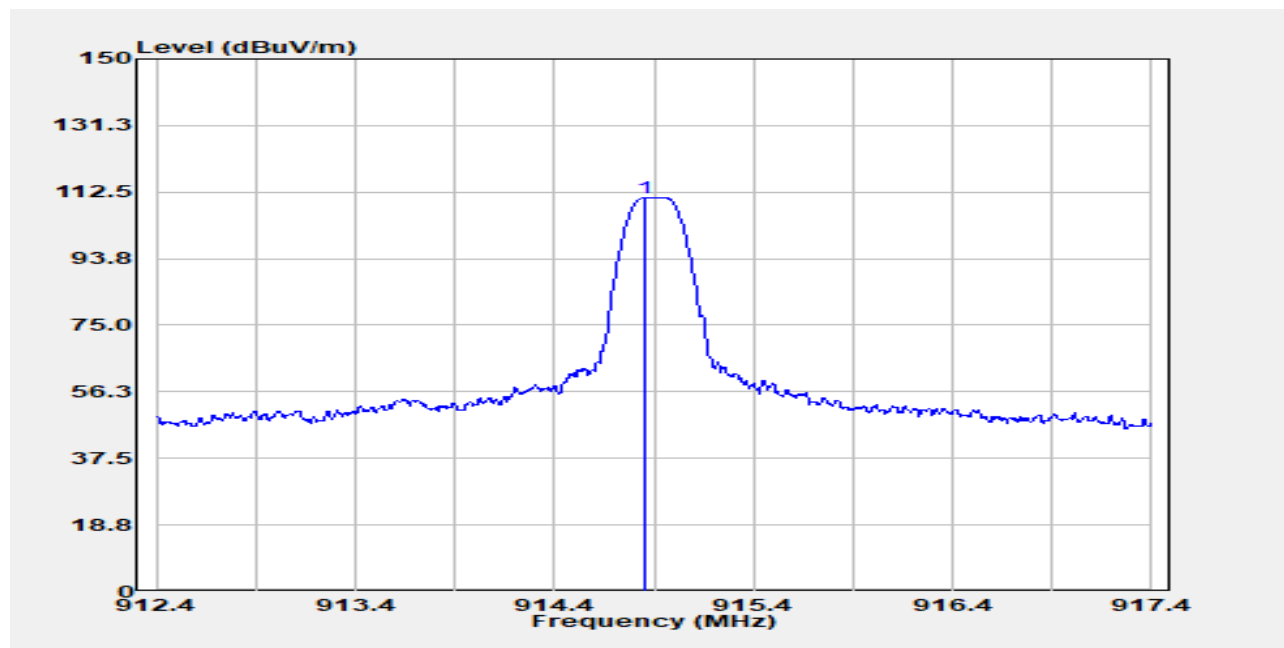
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Report Number :TERF2601000224ER
Operation Mode :LoRa 125KHz Hybird
Test Frequency :914.9 MHz
Test Mode :Main
EUT Pol :H Plane

Test Site :SAC G Chamber
Test Date :2026-01-27
Temp./Humi. :21.9°C/45%
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
914.86	Peak	111.17	-0.27	110.90	-	-

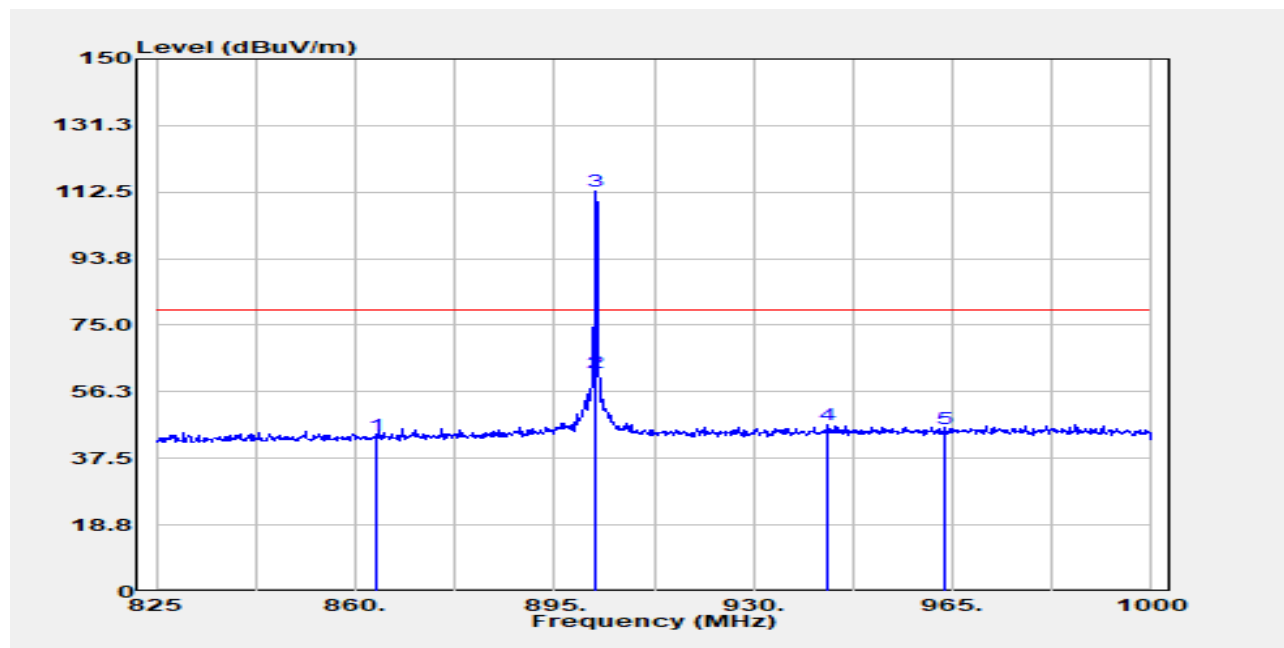
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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird
 Test Frequency :902.3 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
863.50	Peak	45.41	-1.27	44.14	79.51	-35.37
902.00	Peak	62.17	-0.56	61.61	79.51	-17.90
902.30	Peak	113.24	-0.55	112.69	-	-
943.13	Peak	46.72	0.38	47.10	79.51	-32.41
963.43	Peak	45.34	0.58	45.92	79.51	-33.59

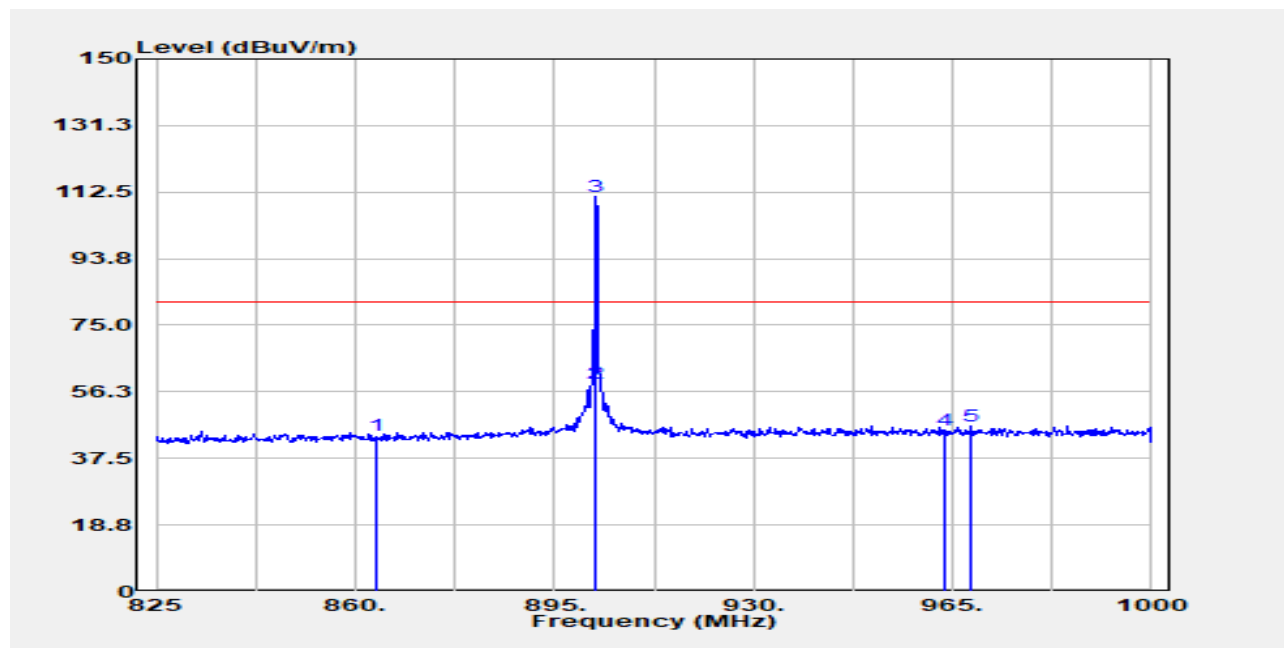
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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird
 Test Frequency :902.3 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
863.50	Peak	45.25	-1.27	43.98	81.71	-37.73
902.00	Peak	59.17	-0.56	58.61	81.71	-23.10
902.30	Peak	111.96	-0.55	111.41	-	-
963.43	Peak	44.85	0.58	45.43	81.71	-36.28
968.33	Peak	46.12	0.64	46.76	81.71	-34.95

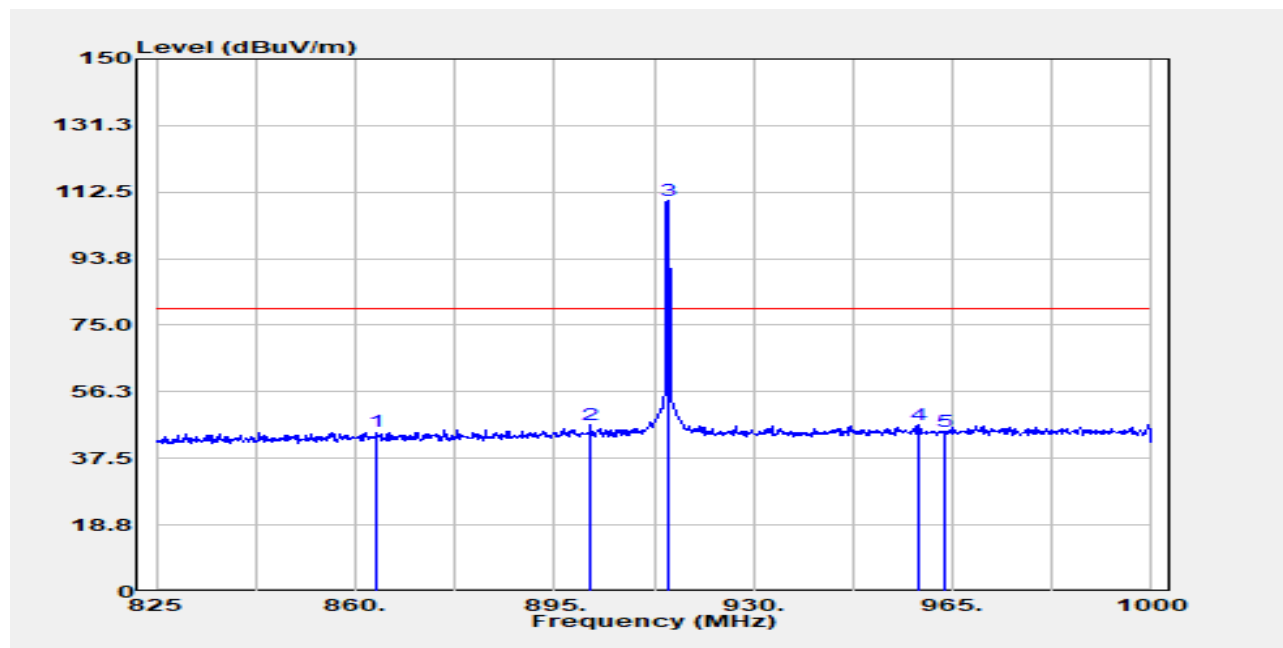
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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird
 Test Frequency :914.9 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-27
 Temp./Humi. :21.9°C/45%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
863.50	Peak	46.47	-1.27	45.20	79.83	-34.63
901.48	Peak	47.62	-0.57	47.05	79.83	-32.78
914.90	Peak	110.23	-0.27	109.96	-	-
959.05	Peak	46.36	0.57	46.93	79.83	-32.90
963.43	Peak	44.70	0.58	45.28	79.83	-34.55

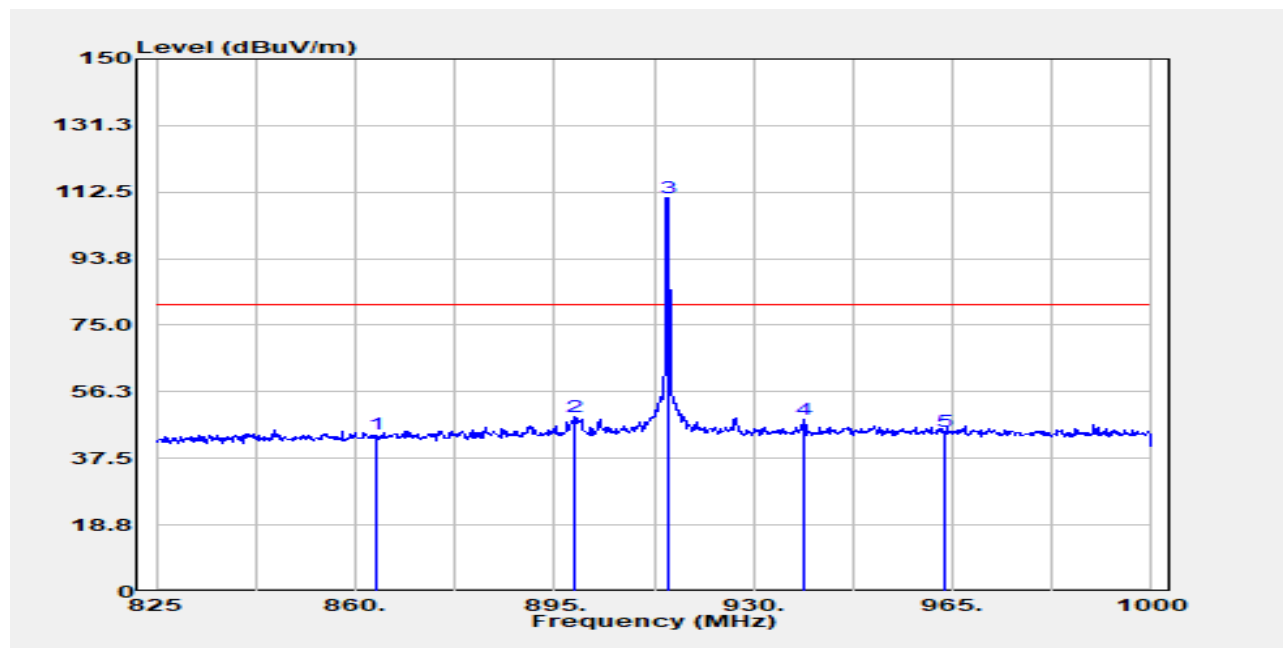
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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird
 Test Frequency :914.9 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-27
 Temp./Humi. :21.9°C/45%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
863.50	Peak	45.76	-1.27	44.49	80.90	-36.41
898.33	Peak	50.03	-0.61	49.42	80.90	-31.48
914.90	Peak	111.35	-0.27	111.08	-	-
938.93	Peak	48.27	0.17	48.44	80.90	-32.46
963.43	Peak	44.47	0.58	45.05	80.90	-35.85

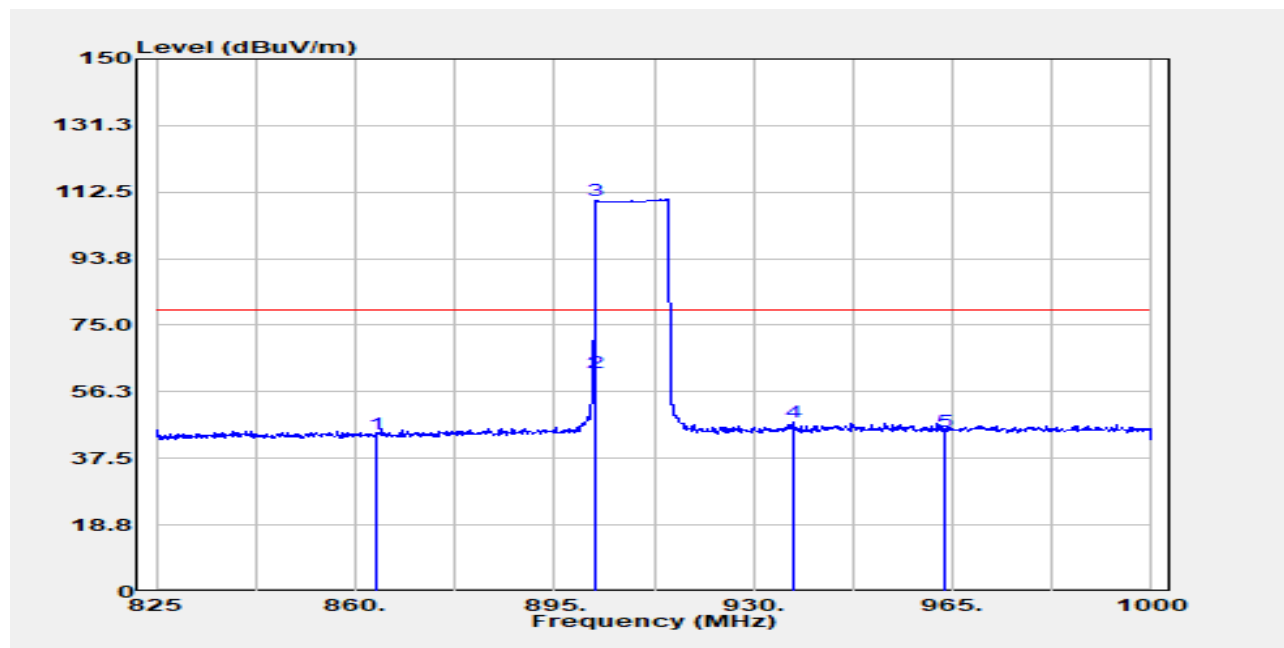
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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird Hopping
 Test Frequency :902.3~914.9 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-27
 Temp./Humi. :21.9°C/45%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
863.50	Peak	45.45	-1.27	44.18	79.51	-35.33
902.00	Peak	62.37	-0.56	61.81	79.51	-17.70
902.30	Peak	110.60	-0.55	110.05	-	-
936.83	Peak	47.71	0.16	47.87	79.51	-31.64
963.43	Peak	44.69	0.58	45.27	79.51	-34.24

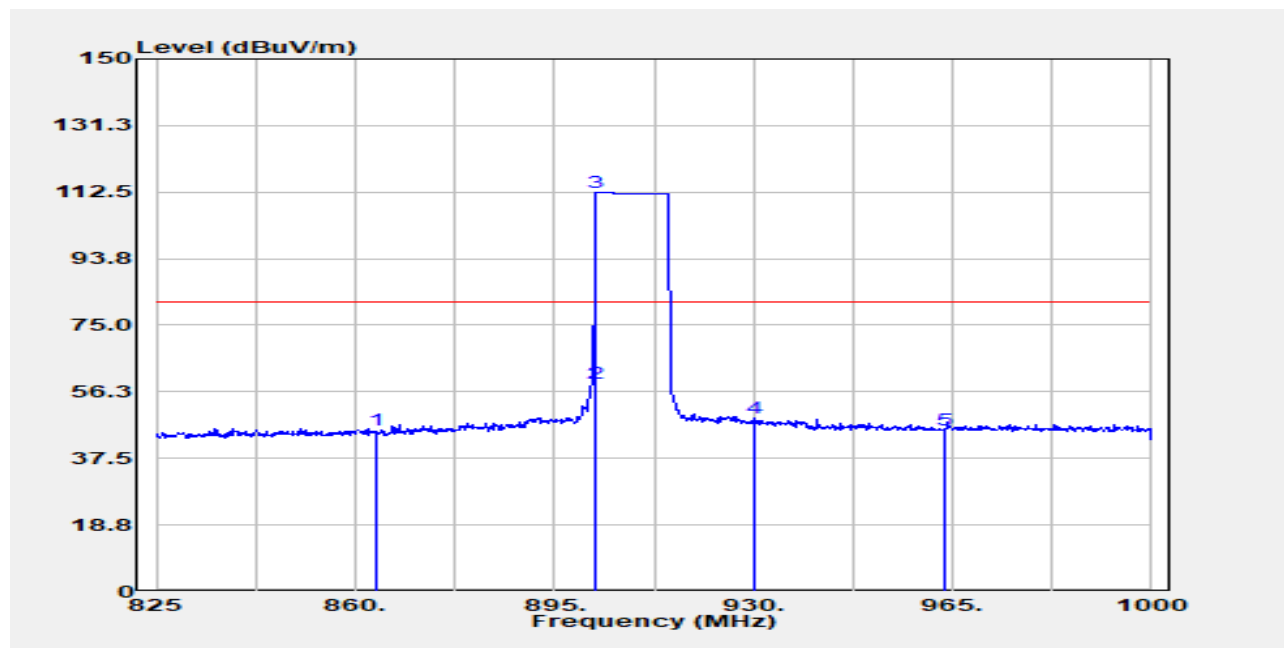
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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird Hopping
 Test Frequency : 902.3~914.9 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-27
 Temp./Humi. :21.9°C/45%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
863.50	Peak	46.70	-1.27	45.43	81.71	-36.28
902.00	Peak	59.20	-0.56	58.64	81.71	-23.07
902.30	Peak	113.08	-0.55	112.53	-	-
930.00	Peak	48.95	0.02	48.97	81.71	-32.74
963.43	Peak	44.78	0.58	45.36	81.71	-36.35

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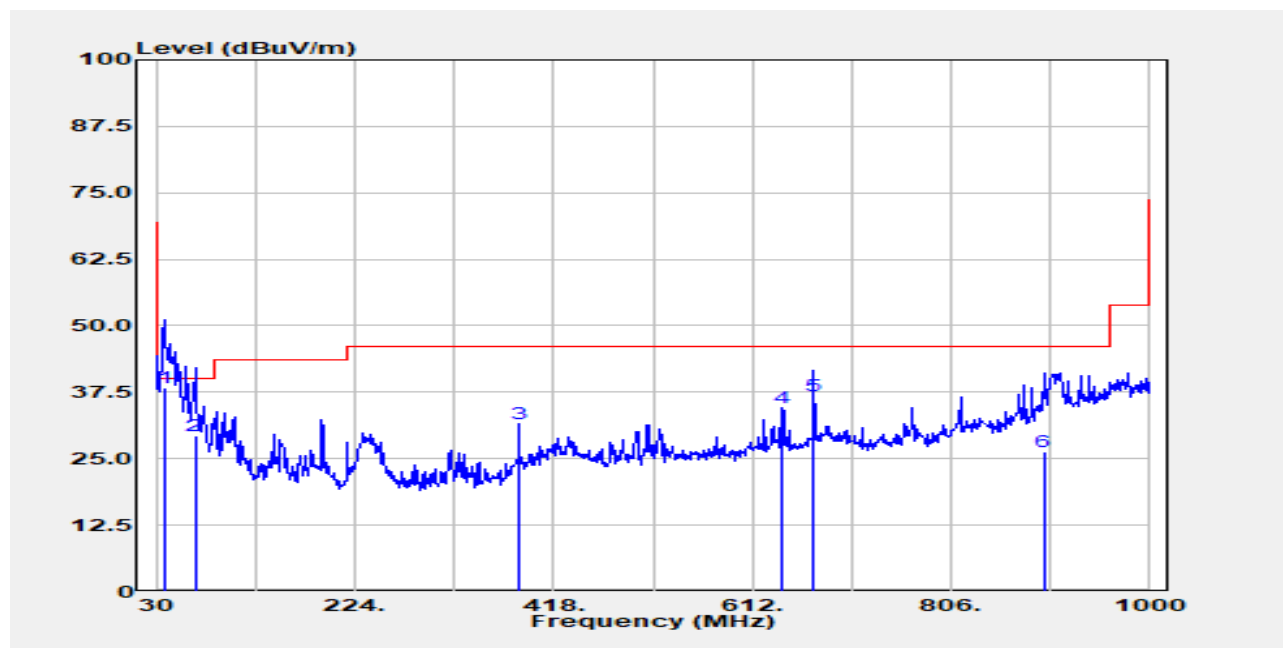
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7.8.4 Radiated Spurious Emission

Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird
 Test Frequency :914.9 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-27
 Temp./Humi. :21.9°C/45%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
38.73	QP	52.01	-13.74	38.27	40.00	-1.73
67.83	QP	43.70	-14.50	29.20	40.00	-10.80
384.05	Peak	41.47	-10.01	31.46	46.00	-14.54
640.13	Peak	39.10	-4.41	34.69	46.00	-11.31
672.14	QP	40.71	-3.86	36.85	46.00	-9.15
896.21	QP	26.90	-0.63	26.27	46.00	-19.73

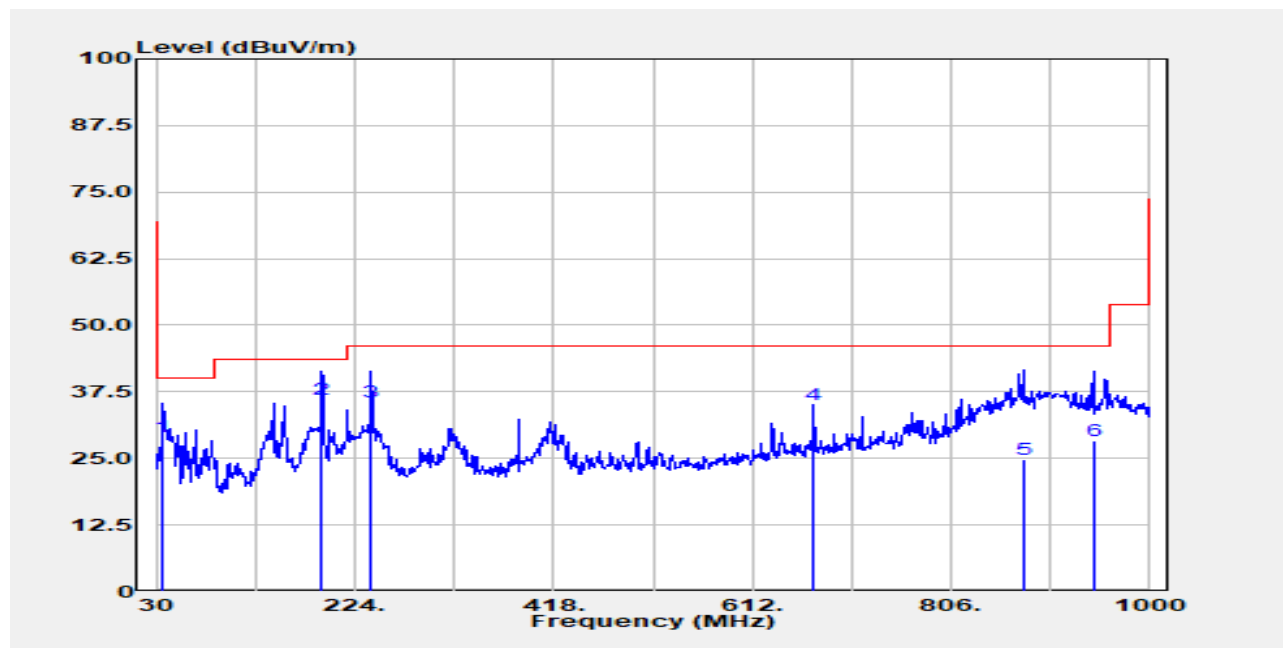
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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird
 Test Frequency :914.9 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-27
 Temp./Humi. :21.9°C/45%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.79	QP	43.10	-14.05	29.05	40.00	-10.95
191.99	QP	51.71	-15.58	36.13	43.50	-7.37
240.49	QP	50.00	-14.43	35.57	46.00	-10.43
672.14	Peak	38.84	-3.86	34.98	46.00	-11.02
876.81	QP	26.00	-1.17	24.83	46.00	-21.17
944.71	QP	27.80	0.48	28.28	46.00	-17.72

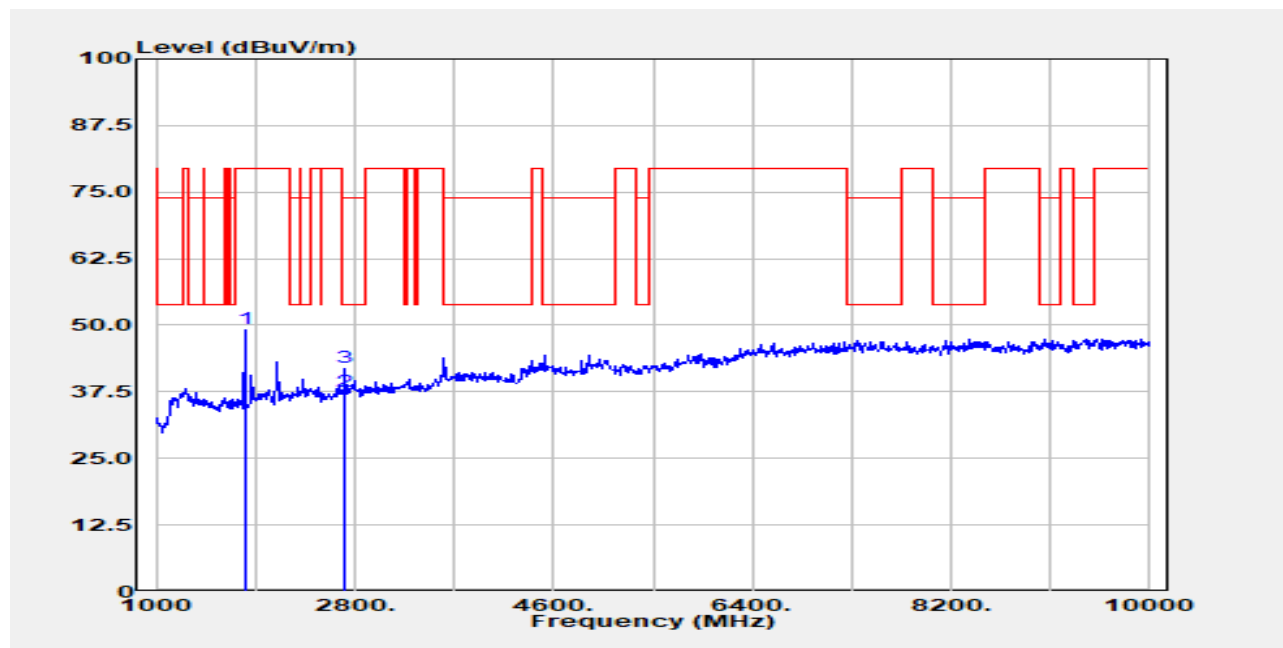
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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird
 Test Frequency :902.3 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
1804.60	Peak	55.48	-5.99	49.49	79.51	-30.02
2706.90	Average	40.63	-3.08	37.55	54.00	-16.45
2706.90	Peak	45.23	-3.08	42.15	74.00	-31.85

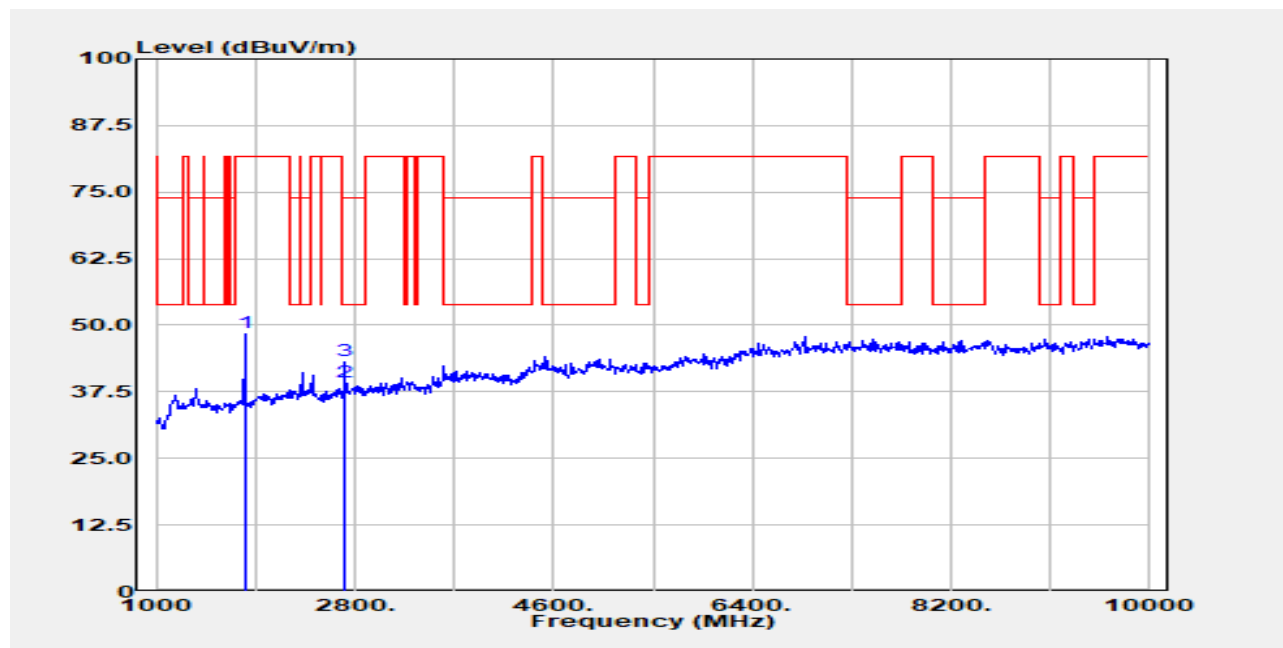
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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird
 Test Frequency :902.3 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1804.60	Peak	54.67	-5.99	48.68	81.71	-33.03
2706.90	Average	42.39	-3.08	39.31	54.00	-14.69
2706.90	Peak	46.56	-3.08	43.48	74.00	-30.52

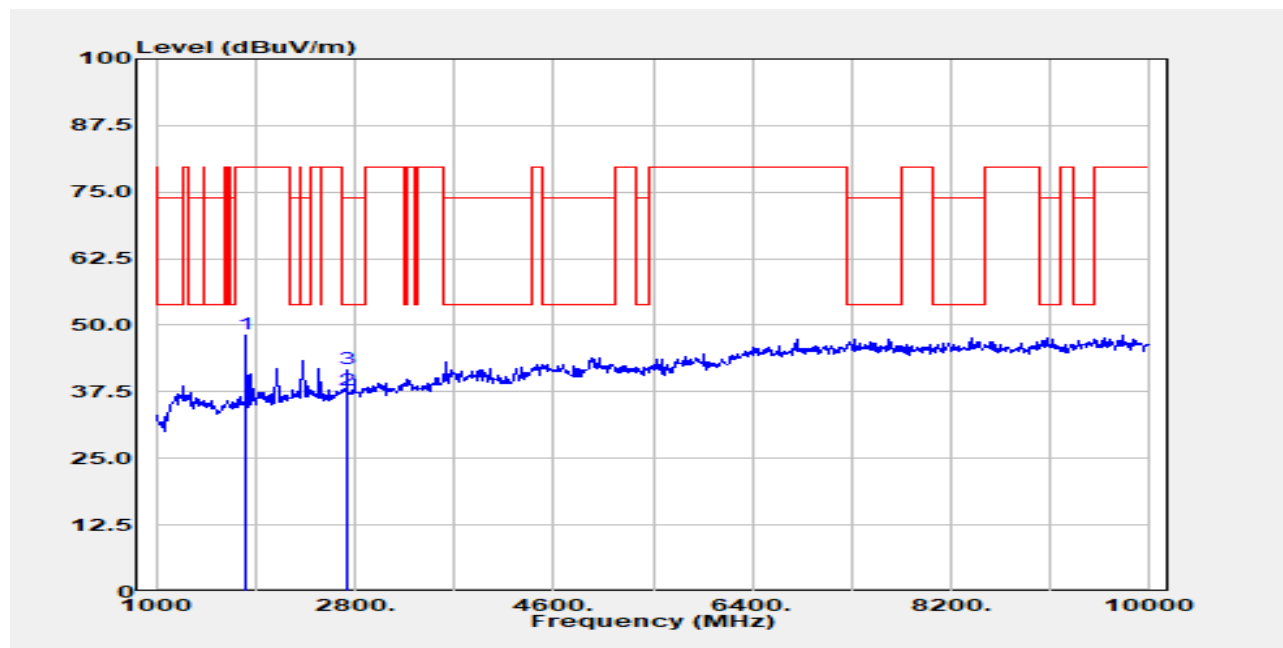
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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird
 Test Frequency :908.7 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1817.40	Peak	54.35	-5.95	48.40	79.77	-31.37
2726.10	Average	40.81	-2.92	37.89	54.00	-16.11
2726.10	Peak	44.84	-2.92	41.92	74.00	-32.08

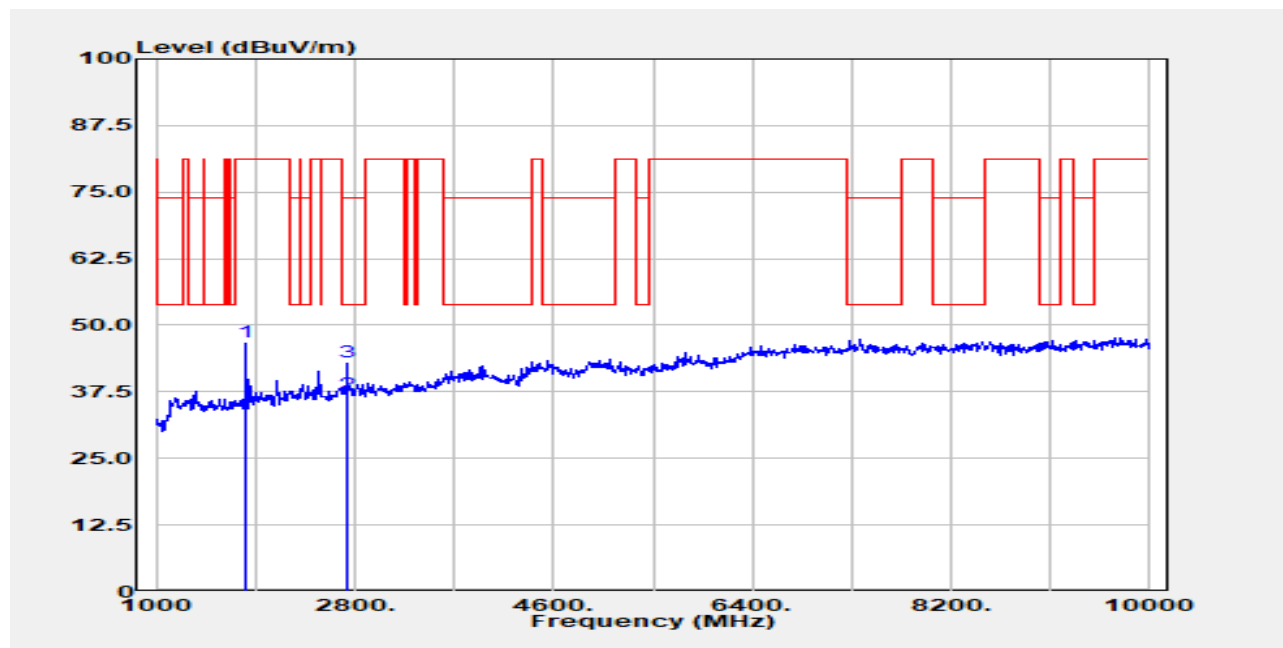
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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird
 Test Frequency :908.7 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



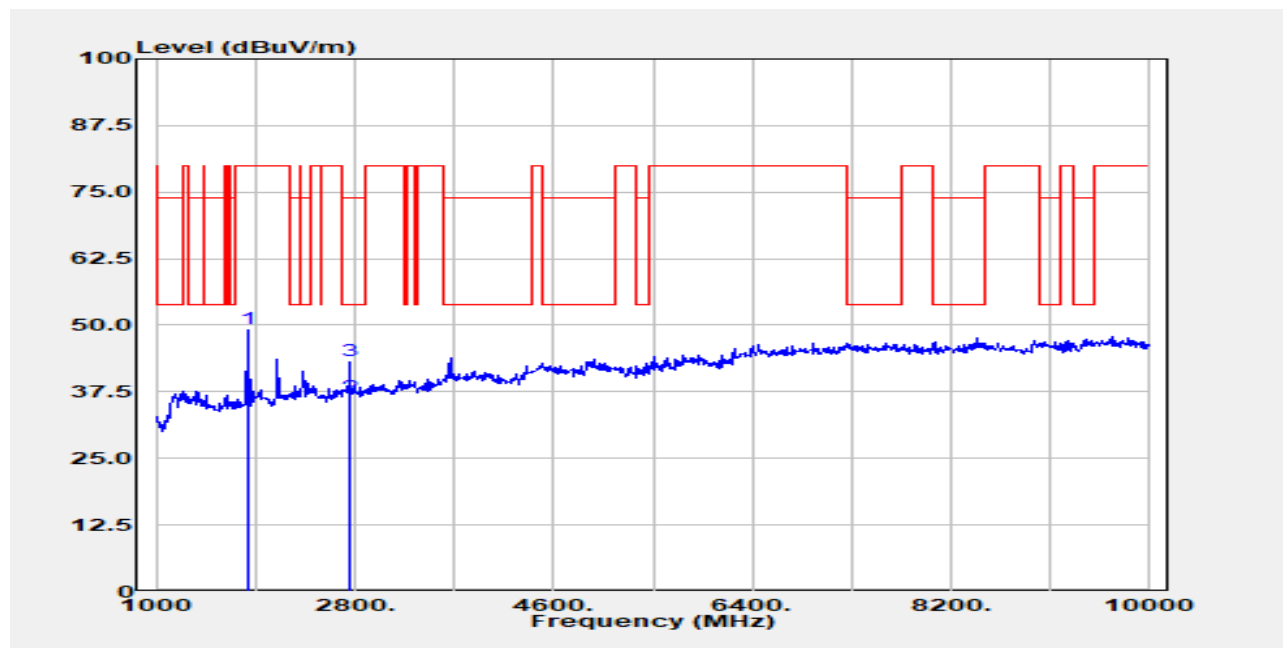
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1817.40	Peak	52.92	-5.95	46.97	81.24	-34.27
2726.10	Average	40.09	-2.92	37.17	54.00	-16.83
2726.10	Peak	46.02	-2.92	43.10	74.00	-30.90

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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird
 Test Frequency :914.9 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
1829.80	Peak	55.40	-5.96	49.44	79.83	-30.39
2744.70	Average	39.29	-2.77	36.52	54.00	-17.48
2744.70	Peak	46.25	-2.77	43.48	74.00	-30.52

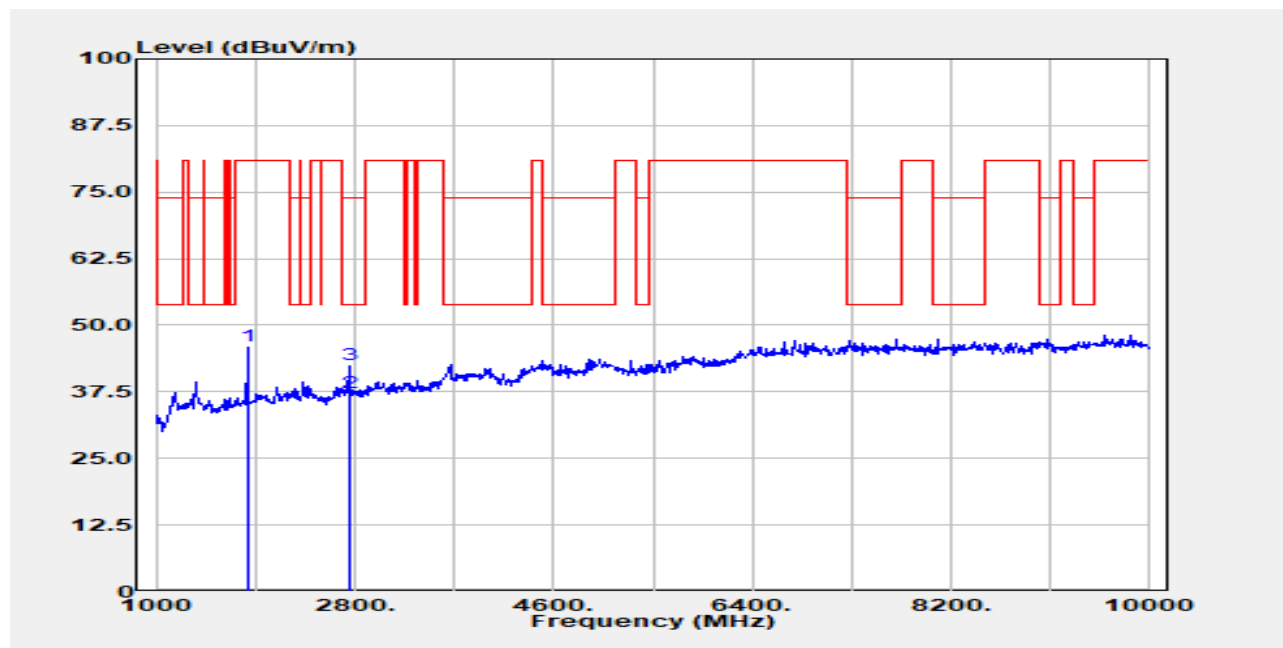
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Report Number :TERF2601000224ER
 Operation Mode :LoRa 125KHz Hybird
 Test Frequency :914.9 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC G Chamber
 Test Date :2026-01-28
 Temp./Humi. :22.7°C/53%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
1829.80	Peak	52.09	-5.96	46.13	80.90	-34.77
2744.70	Average	40.15	-2.77	37.38	54.00	-16.62
2744.70	Peak	45.48	-2.77	42.71	74.00	-31.29

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7.9 AC Power Line Conducted Emission

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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台灣檢驗科技股份有限公司

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Report Number :TERF2601000224ER

Test Mode :Lora Hybird

Power :120V/60Hz

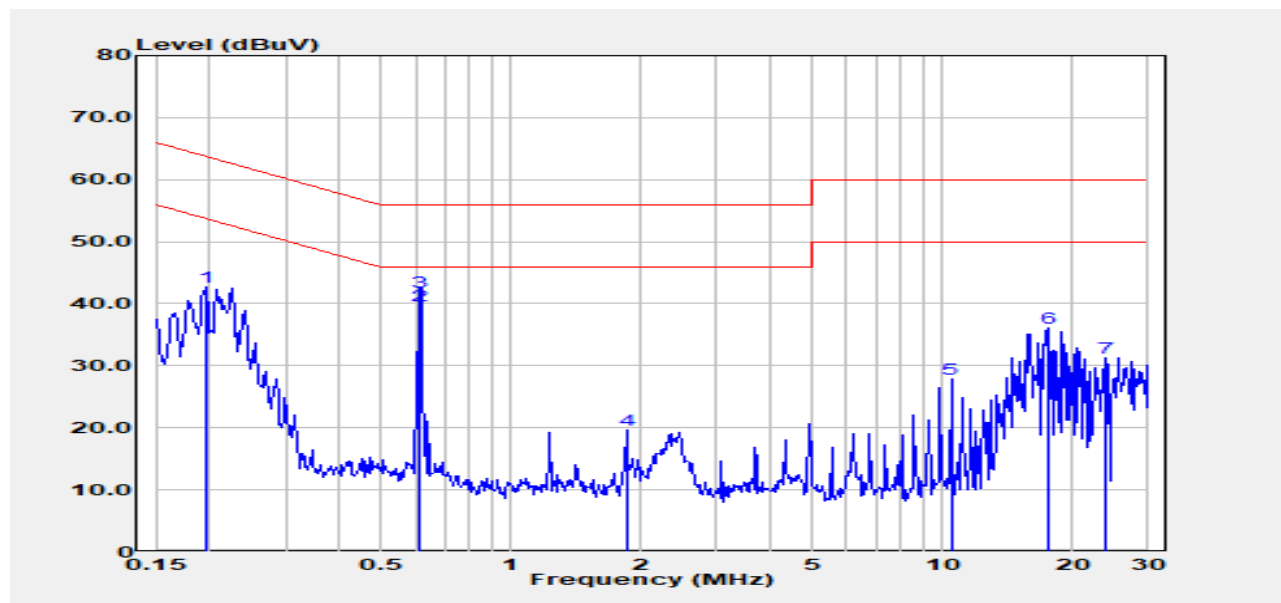
Probe :L1

Test Site :Conduction C

Test Date :2026-01-14

Temp./Humi :20.6°C/54%

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.195	Peak	32.14	10.65	42.79	63.81	-21.03
0.614	Average	29.00	10.64	39.64	46.00	-6.36
0.614	QP	31.30	10.64	41.94	56.00	-14.06
1.852	Peak	8.96	10.76	19.72	56.00	-36.28
10.468	Peak	16.82	10.97	27.79	60.00	-32.21
17.571	Peak	25.04	11.12	36.17	60.00	-23.83
24.057	Peak	20.11	11.26	31.36	60.00	-28.64

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f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2601000224ER

Test Mode :Lora Hybird

Power :120V/60Hz

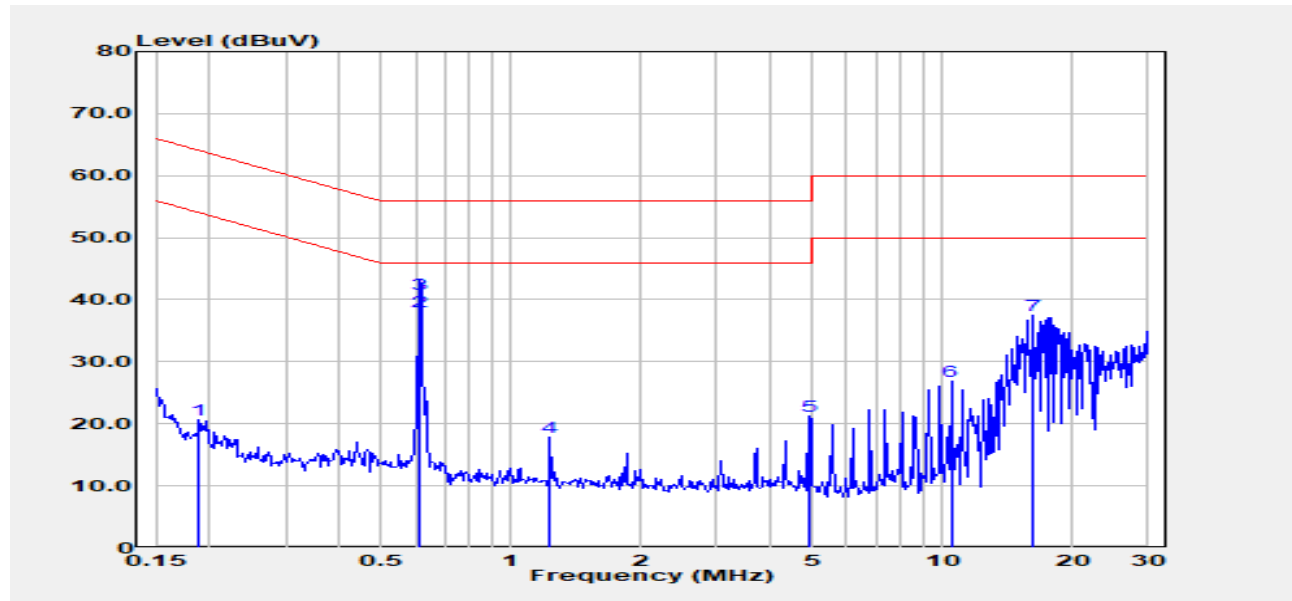
Probe :N

Test Site :Conduction C

Test Date :2026-01-14

Temp./Humi :20.6°C/54%

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.189	Peak	9.99	10.65	20.64	64.10	-43.45
0.614	Average	27.50	10.62	38.12	46.00	-7.88
0.614	QP	30.20	10.62	40.82	56.00	-15.18
1.232	Peak	7.21	10.69	17.90	56.00	-38.10
4.917	Peak	10.42	10.93	21.35	56.00	-34.65
10.468	Peak	15.80	10.96	26.77	60.00	-33.23
16.279	Peak	26.39	11.10	37.48	60.00	-22.52

~ End of Report ~

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