

TEST REPORT

Applicant: BAIC Foton Motor Co.,Ltd.

Address: North of Laoniawan Village, Shayang Road, Shahe Town,
Changping District, Beijing, China

Product Name: TPMS

Model Name: FTN04

Type of Equipment: Certification Ordinance Article 2-1-8

Test method(s): DSPR 433MHz 帶 TPMS 等の特性試験方法

Report Number: 2602T57986E-RF-07

Report Date: 2026/6/26

The above device has been tested and found compliant with the requirement of the relevant standards by Bay Area Compliance Laboratories Corp. (Dongguan).

Stu Song

Rocky Xiao

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Title: Project Engineer

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2602T57986E-RF-07	Original Report	2026/6/26

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

Product Name:	TPMS
Test Model:	FTN04
Rated Input Voltage:	3Vdc from battery
Serial Number:	3LWY-2
EUT Received Date:	2026/5/16
EUT Received Status:	Good

Accessory Information

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

Technical Specification

Operation Frequency Range (MHz):	433.92
Nominal RF Output Power (EIRP, mW):	0.02
Maximum Antenna Gain (dBi) [▲] :	-8
Modulation Type:	FSK
Emission Type	F1D

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

Measurement Uncertainty

Parameter	Measurement Uncertainty
Frequency Error	±0.076 ppm
Occupied bandwidth and spreading bandwidth	±5 %
RF output power, conducted	±0.55dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

SUMMARY OF TEST RESULTS

SN	Description of Test Item	Result
1	Occupied Bandwidth	Compliant
2	Antenna Output Power and Output Power Tolerance	Compliant
3	Unwanted Emission Strength	Compliant
4	Secondary Radiated Emission Strength	Compliant
5	Transmission Time Restriction	Compliant
6	Housing Requirements	Compliant

EUT TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in Engineering Mode, which was provided by the manufacturer. The EUT only employs one channel, 433.92MHz.

Operating Condition

Voltage Condition	Input(V _{DC})
NV	3
LV	2.3
HV	3.3

Note: The product has two Configurations, Configuration 1 and Configuration 2, a description of the differences between two configurations as follows: They are the same product, and just different appearances. The difference between them does not affect the test result, thus, only Configuration 1 was selected for full test.

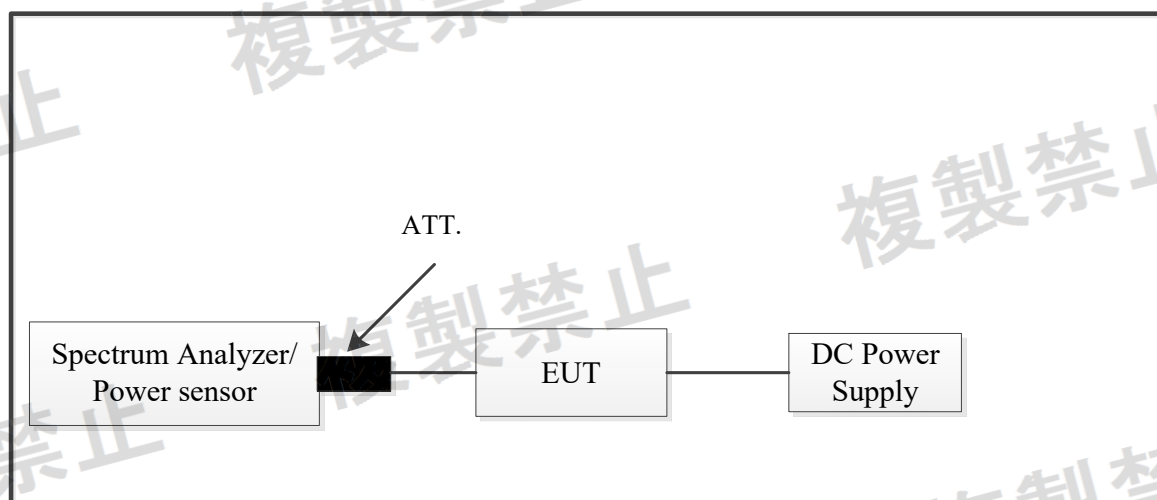
Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

N/A

Configuration of Test Setup



Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

Support Cable List and Details

Cable Description	Shielding Cable	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Agency	Calibration Method ^{Note}
R&S	Spectrum Analyzer	FSP 38	100478	2025/7/28	2026/7/27	BACL Metrology	C
R&S	Spectrum Analyzer	FSV40	101461	2025/8/3	2026/8/2	GRGTEST	C
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038-1	N/A	N/A	N/A	N/A
R&S	Coaxial Attenuator	10dB	F-08-EM512	2026/3/30	2027/3/29	BACL(DG)	D
All-sun	Clamp Meter	EM305A	8348897	2025/8/18	2026/8/17	BACL Metrology	C
Anritsu	Microwave Peak Power Sensor	MA24418A	12618	2025/6/11	2026/6/10	BACL Metrology	C

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

Note:

- A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).
- B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).
- C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c)

Environmental Conditions

Temperature:	25.6~27.1℃
Relative Humidity:	50~73%
ATM Pressure:	99.6~100.4kPa
Tester:	Harper Shen
Test Date:	2026/5/26~2026/6/25

1 - OCCUPIED BANDWIDTH

Limit

250kHz or less, Operating frequency within 433.795-434.045 MHz.

Test Procedure

- Set the spectrum analyzer:
 - Center Frequency: Test frequency
 - Sweep Frequency Span: Approximately 2 to 3.5 times the value specified in the Regulations
 - Resolution Bandwidth (RBW): Less than 3% of the value specified in the Regulations
 - Video Bandwidth (VBW): Same as RBW
 - Input Level: Carrier level must be sufficiently above the spectrum analyzer's noise floor
 - Sweep Time: Minimum time ensuring measurement accuracy (for burst waves: $\geq$ duration of one burst per sample)
 - Sweep Mode: Continuous (until waveform fluctuations stabilize)
 - Detection Mode: Positive peak
 - Display Mode: Max hold
- Repeatedly sweep until no further changes are observed in the display, then capture all data values.
- For all data points, convert the dB values into linear values in the power dimension. Sum these values to obtain the "total power".
- Starting from the lowest frequency, sequentially add the power values of successively higher frequencies. Determine the boundary data point where this cumulative value reaches 0.5% of the "total power". The frequency at this boundary point is defined as the "lower limit frequency".
- Starting from the highest frequency, sequentially add the power values of successively lower frequencies. Determine the boundary data point where this cumulative value reaches 0.5% of the "total power". The frequency at this boundary point is defined as the "upper limit frequency".

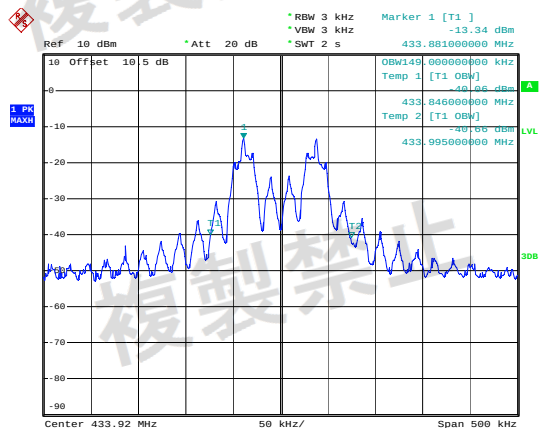
Test Data

Test Result: Compliant.

Test Condition	Test Frequency (MHz)	OBW (kHz)	OBW Limit (kHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
NV	433.92	149.000	250	433.850	433.960	≥ 433.795	≤ 434.045
LV	433.92	147.000	250	433.850	433.990	≥ 433.795	≤ 434.045
HV	433.92	146.000	250	433.850	433.990	≥ 433.795	≤ 434.045

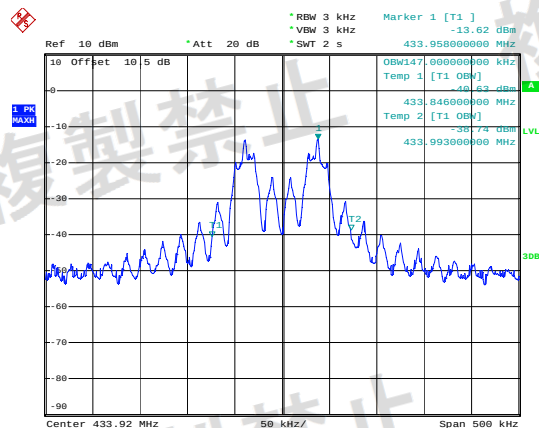
Please refer to the plots for normal voltage test.

NV



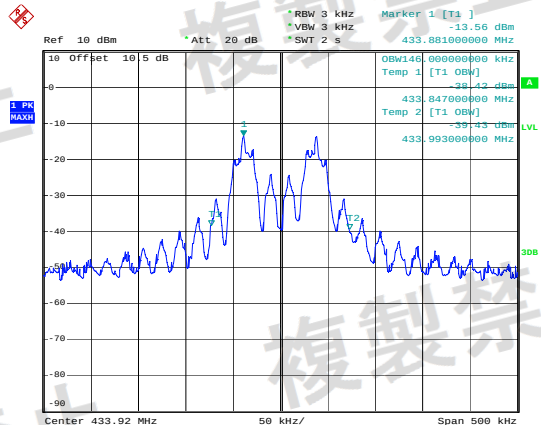
ProjectNo.:2602T57986E Tester:Harper Shen
Date: 26.MAY.2026 13:29:19

LV



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Date: 26.MAY.2026 14:35:23

HV



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Date: 26.MAY.2026 14:44:49

2 - ANTENNA OUTPUT POWER AND OUTPUT POWER TOLERANCE

Limit

- The output power should be 1mW or less EIRP
- The Output Power Tolerance must be within +20%.

Test Procedure

Connect the EUT to Power Meter.
Set the EUT Frequency to measure
Detector: Peak

Test Data

Test Result: Compliant

Antenna gain (dBi)	Declared power (mW)
-8	0.02

Antenna output power

Test Condition	Conducted power (dBm)	EIRP		EIRP limit (mW)	Output Power tolerance (%)	
		(dBm)	(mW)		Result	Limit
NV	-8.70	-16.70	0.0214	≤ 1.00	7.00	20
LV	-8.72	-16.72	0.0213	≤ 1.00	6.50	20
HV	-8.75	-16.75	0.0211	≤ 1.00	5.50	20

Note:

1) $EIRP (dBm) = Conducted\ power (dBm) + Antenna\ Gain (dBi)$

2) $Output\ Power\ Tolerance = (Output\ power - Declared\ Power) / Declared\ Power * 100\%$

3 - UNWANTED EMISSION STRENGTH

Limit

Frequency Band	Limits
$30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$	250nW/100kHz
$1000 \text{ MHz} < f \leq 3\text{GHz}$	1uW/1MHz

Test Procedure

① Preliminary Measurement and Calculation of Equivalent Isotropically Radiated Power (P_O)

Set the spectrum analyzer according to Section 2(1) and search for spurious emissions. If the Equivalent Isotropically Radiated Power (P_O), calculated using the measured amplitude value and the formula below, satisfies the limit specified in the Equipment Installation Rules (for burst waves, if the sweep time is set to "Sweep Frequency Span (MHz) ÷ Resolution Bandwidth (MHz) × Burst Period (s)", the limit shall be the specified value minus 3 dB), then the measurement in step ② is not required. The calculated P_O value shall be recorded as the measurement result.

$$P_O = P_p + G_T \text{ (dBm)}$$

- o P_p : Measured spurious emission value from the spectrum analyzer (dBm)
- o G_T : Absolute gain of the transmitting antenna at the spurious emission frequency (dBi)

② Narrowband Measurement for Exceeding Emissions

If the searched spurious emission amplitude exceeds the standard limit, narrow the sweep frequency span of the spectrum analyzer to accurately determine the frequency of the spurious emission. Then, set the spectrum analyzer according to Section 2(2) and measure the average amplitude of the spurious emission (for burst waves, take the average value within each burst). Substitute this value into the formula in step ① to calculate P_O , which shall serve as the measurement result.

③ Search Near Carrier Frequency

Set the spectrum analyzer according to Section 2(3) and search for spurious emissions in the range near the carrier frequency.

④ Handling of Emissions Near Carrier

In the near-carrier range, calculate P_O by substituting the searched spurious emission value (amplitude measurement value + resolution bandwidth correction factor^[Note 1]) as P_p into the formula in step ①.

- o If P_O is below the limit, record it as the measurement result.
- o If the P_O of the spurious emission exceeds the limit, perform detailed measurements per steps ⑤ through ⑩ at the frequencies where the limit is exceeded.

⑤ Detailed Measurement Setup

Set the spectrum analyzer according to Section 2(4). Set the center frequency to each frequency identified in step ④ as exceeding the limit.

⑥ Data Acquisition

Sweep the spectrum analyzer and capture all data into a computer.

⑦ Unit Conversion

Convert the dB values of all data points into linear power values (true numbers).

⑧ Power Summation

Calculate the total sum of the power values of all data points; denote this as P_s . [Note 2]

⑩ Attenuation Calculation

Divide P_s by the carrier amplitude value obtained in step ⑩ to determine the attenuation relative to the carrier amplitude. Multiply this attenuation value by the antenna power determined in Section 4; the resulting value constitutes the spurious emission level.

⑪ Carrier Amplitude Determination

Set the spectrum analyzer according to Section 2(4). Set the center frequency to the frequency yielding the maximum amplitude, and set the sweep frequency span to 2 to 3 times the occupied bandwidth. Following the procedure in steps ⑥ through ⑧, the obtained total sum of power [Note 2] shall be taken as the carrier amplitude value.

Notes:

1. **Resolution Bandwidth Correction Factor:** Refers to the correction value required to normalize the measured value to a specified resolution bandwidth.
2. **Power Summation:** Ensure calculations account for the number of data points and the resolution bandwidth.

Spectrum analyzer Setting 2(1)

- Setting of Spectrum Analyzer start 30MHz and stop frequency 432.795MHz, RB:100kHz/VB:100kHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: Maxhold.
- Setting of Spectrum Analyzer start 435.045MHz and stop frequency 1GHz, RB:100kHz/VB:100kHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: Maxhold.
- Setting of Spectrum Analyzer start 1GHz and stop frequency 3GHz, RB:1MHz/VB:1MHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: Maxhold.

Spectrum analyzer Setting 2(2)

- Center frequency: Searched Frequency
- Span: 0Hz
- RBW:1MHz(Above 1GHz), 100 kHz(30MHz-1GHz). VBW: Same as RBW.
- Sweep time: Auto(Minimum time to ensure measurement accuracy. *In case of burst wave, one burst shall be included per data point) Data points: Auto. Sweep mode: Single Sweep.
- Detection Mode: Sample

Spectrum analyzer Setting 2(3)

- Setting of Spectrum Analyzer start 432.795MHz and stop frequency 433.795MHz, RB:1kHz/VB:1kHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: Maxhold.
- Setting of Spectrum Analyzer start 434.045MHz and stop frequency 435.045MHz, RB:1kHz/VB:1kHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: Maxhold.

Spectrum analyzer Setting 2(4)

- Center frequency: Searched Frequency (However: If the sweep frequency upper limit > 433.745 MHz, set center frequency to 433.745 MHz. If the sweep frequency lower limit < 434.095 MHz, set center frequency to 434.095 MHz.)
- Span: 99kHz
- RBW:1kHz. VBW: Same as RBW.
- Sweep time: Auto(Minimum time to ensure measurement accuracy. *In case of burst wave, one burst shall be included per data point) Data points: Auto. Sweep mode: Single Sweep.
- Detection Mode: Peak

Test Data**Test Result: Compliant****Test Mode: Transmitting**

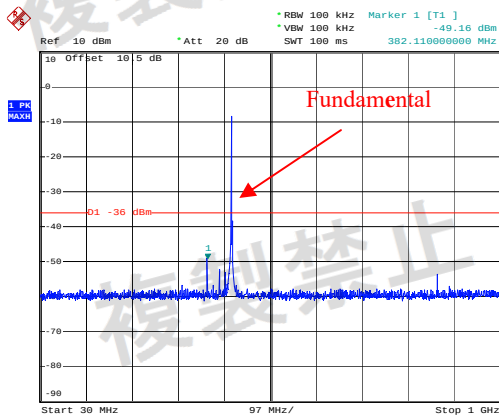
Test Condition	Test Band (RBW)	Frequency Range		Max. Emission Located (GHz)	Result (dBm)	Result EIRP (dBm)	Result EIRP (μW)	Limit (μW)
		Start (GHz)	Stop (GHz)					
NV	Band I (1kHz)	0.432795	0.433795	0.433745	-60.80	-68.80	0.0001	0.25
	Band II (1kHz)	0.434045	0.435045	0.434095	-50.64	-58.64	0.0014	0.25
	Band III (100kHz)	0.03	1	0.382	-49.16	-57.16	0.0019	0.25
	Band IV (1MHz)	1	3	2.535	-52.46	-60.46	0.0009	1
LV	Band I (1kHz)	0.432795	0.433795	0.433745	-60.11	-68.11	0.0002	0.25
	Band II (1kHz)	0.434045	0.435045	0.434095	-50.72	-58.72	0.0013	0.25
	Band III (100kHz)	0.03	1	0.382	-49.03	-57.03	0.0020	0.25
	Band IV (1MHz)	1	3	2.434	-51.45	-59.45	0.0011	1
HV	Band I (1kHz)	0.432795	0.433795	0.433745	-59.97	-67.97	0.0002	0.25
	Band II (1kHz)	0.434045	0.435045	0.434095	-50.86	-58.86	0.0013	0.25
	Band III (100kHz)	0.03	1	0.382	-49.19	-57.19	0.0019	0.25
	Band IV (1MHz)	1	3	2.436	-42.41	-50.41	0.0091	1

Note 1:

Band I: $432.795 \text{ MHz} \leq f \leq 433.795 \text{ MHz}$ Band II: $434.045 \text{ MHz} < f \leq 435.045 \text{ MHz}$ Band III: $30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$ (Contain frequency range 30-432.795MHz and 435.045-1000MHz)Band IV: $1000 \text{ MHz} < f \leq 3 \text{ GHz}$

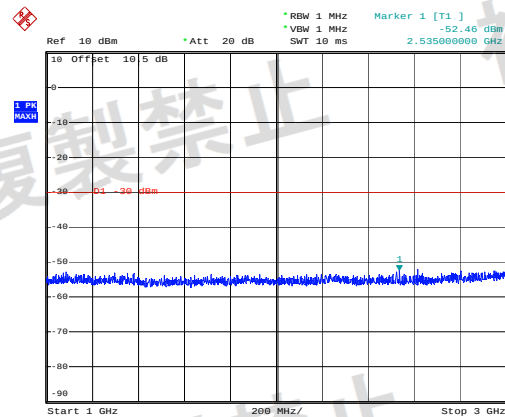
Please refer to the plots for normal voltage test.

NV (30M-1G)



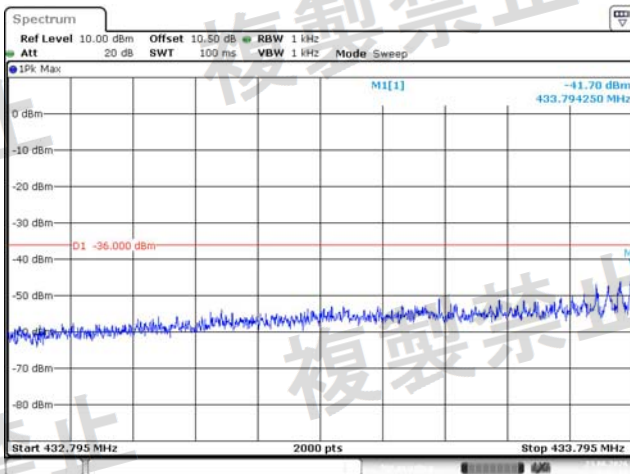
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NV (1G-3G)

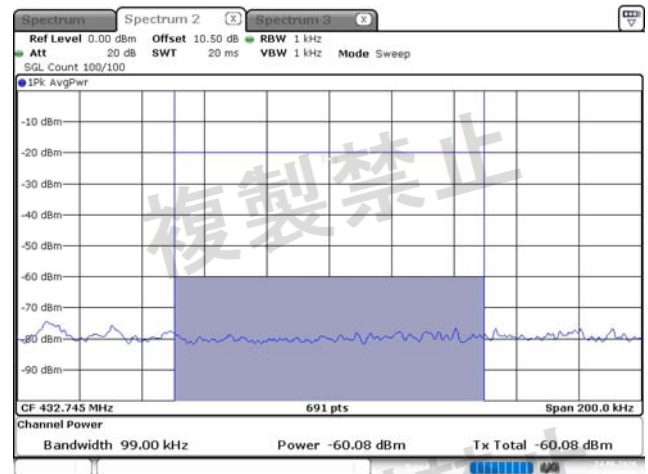


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NV (432.795-433.795 MHz)

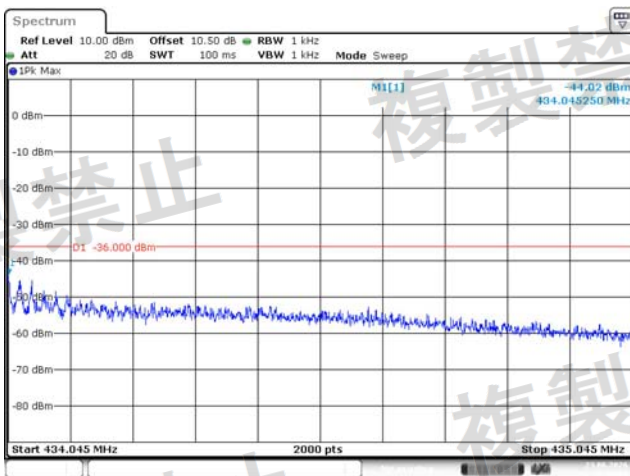


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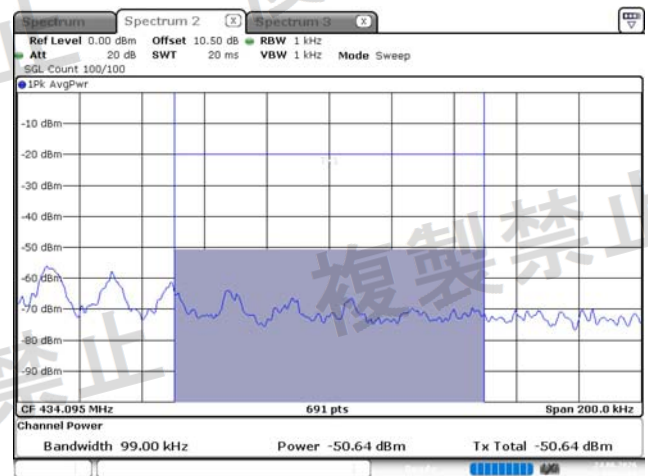


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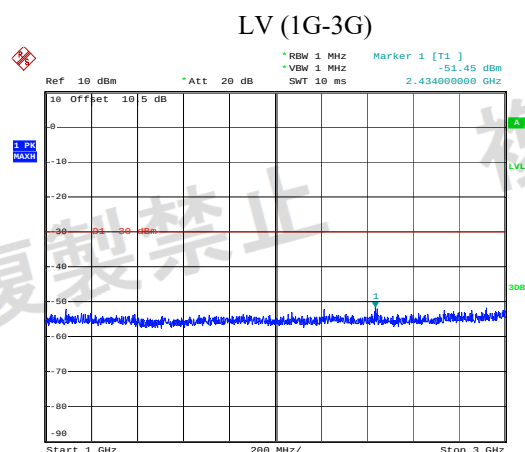
NV (434.045-435.045 MHz)



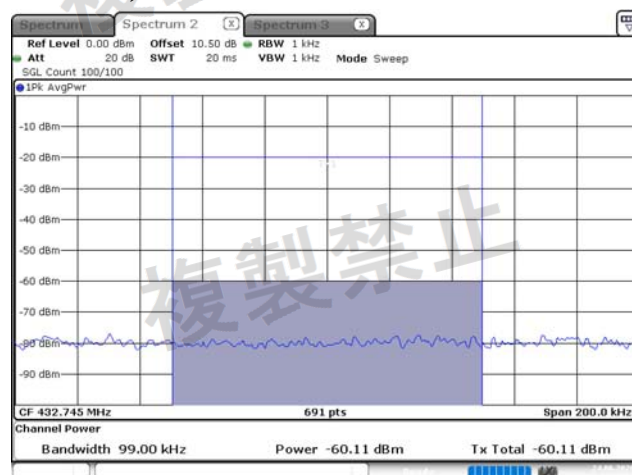
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Date: 24.JUN.2026 14:01:38



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Date: 26.MAY.2026 14:24:46

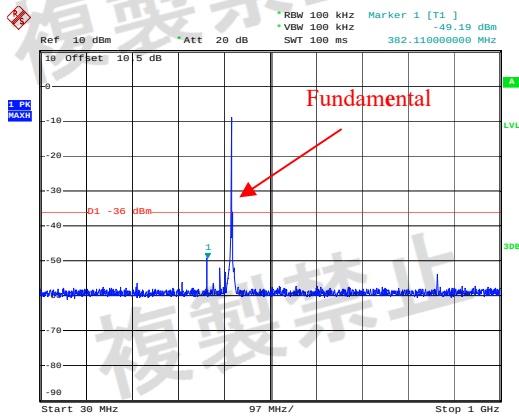


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Date: 24.JUN.2026 14:07:38



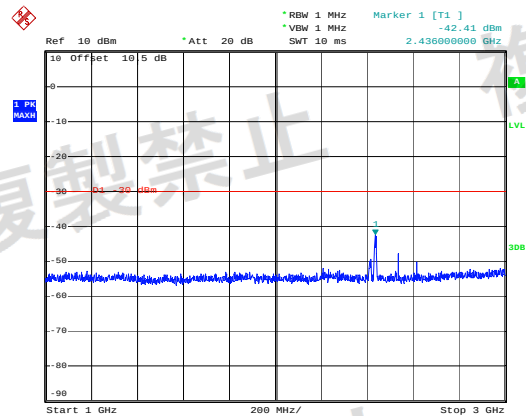
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Date: 24.JUN.2026 14:08:43

HV (30M-1G)



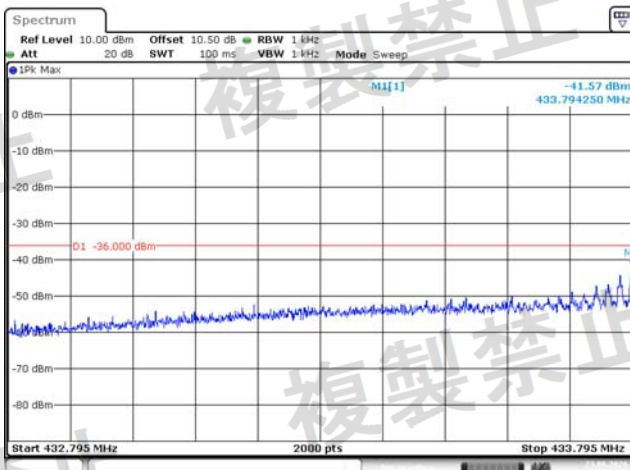
ProjectNo.:2602T57986E Tester:Harper Shen
Date: 26.MAY.2026 15:12:04

HV (1G-3G)

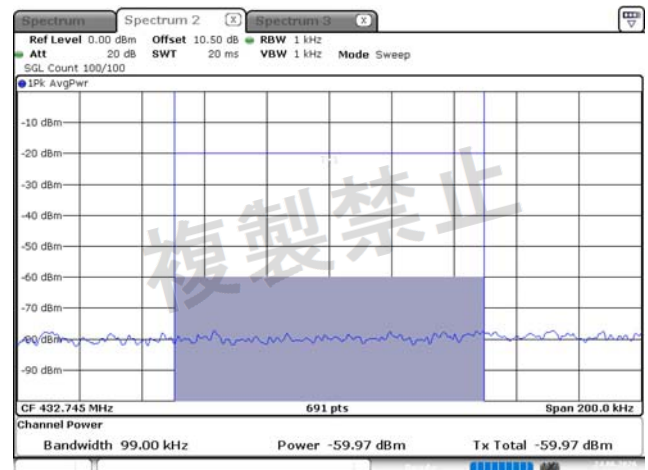


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Date: 26.MAY.2026 14:50:13

HV (432.795-433.795 MHz)

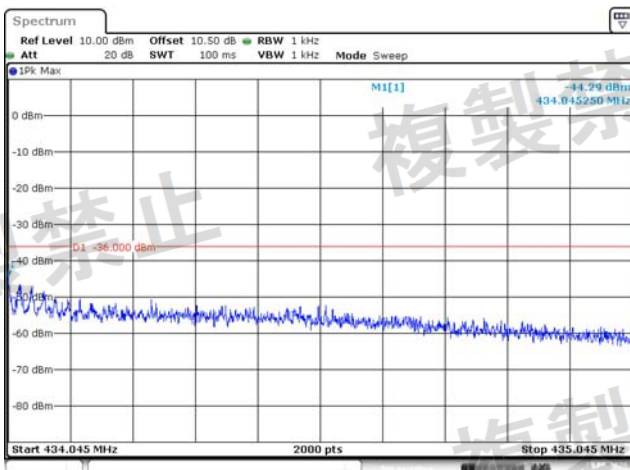


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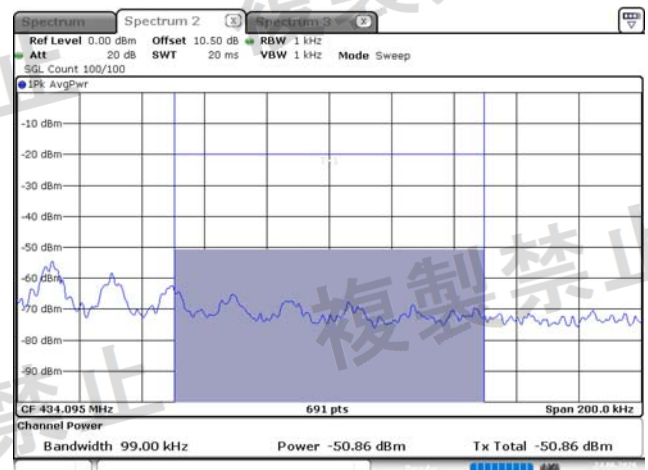


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HV (434.045-435.045 MHz)



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Date: 23.JUN.2026 15:36:18



ProjectNo.:2602T57986E Tester:Harper Shen
Date: 24.JUN.2026 14:13:25

4 - SECONDARY RADIATED EMISSION STRENGTH

Limit

Frequency Band		Limits
I	$30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$	4nW/100kHz
II	$1000 \text{ MHz} < f \leq 3\text{GHz}$	4nW/1MHz

Test Procedure

Step1:

- Setting of Spectrum Analyzer start 30MHz and stop frequency 1GHz, RB:100kHz/VB:100kHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: Maxhold.
- Setting of Spectrum Analyzer start 1GHz and stop frequency 3GHz, RB:1MHz/VB:1MHz, Sweep time: Auto. Sweep mode: continuous sweep. Detect mode: Positive peak/Trace mode: Maxhold.

Step 2:

- Center frequency: Searched Frequency
- Span: 0Hz
- RBW:1MHz(Above 1GHz), 100 kHz(30MHz-1GHz). VBW: Same as RBW.
- Sweep time: Auto(Minimum time to ensure measurement accuracy. *In case of burst wave, one burst shall be included per data point) Data points: Auto. Sweep mode: Single Sweep.
- Detection Mode: Sample

Test Data

Test Result: Compliant, please see the below tables and plots

Test Mode: Receiving

Test Condition	Test Band (RBW)	Frequency Range		Max. Emission Located (GHz)	Result (dBm/RBW)	Result EIRP (dBm /RBW)	Result EIRP (μW/RBW)	Limit (μW/RBW)
		Start (GHz)	Stop (GHz)					
NV	Band I (100kHz)	0.03	1	0.09	-67.87	-75.87	0.026	4
	Band II (1MHz)	1	3	2.953	-71.12	-79.12	0.012	4
LV	Band I (100kHz)	0.03	1	0.192	-68.42	-76.42	0.023	4
	Band II (1MHz)	1	3	2.988	-71.90	-79.90	0.010	4
HV	Band I (100kHz)	0.03	1	0.215	-68.38	-76.38	0.023	4
	Band II (1MHz)	1	3	2.762	-71.47	-79.47	0.011	4

Note 1:

Band I: $30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$

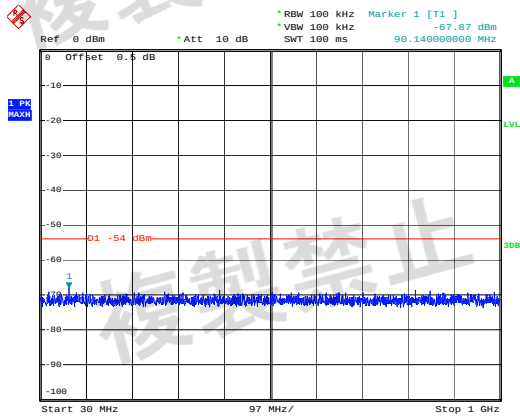
Band II: $1000 \text{ MHz} < f \leq 3\text{GHz}$

Note 2:

The RBW is set 100kHz for Band I frequency range, 1MHz for Band II frequency range.

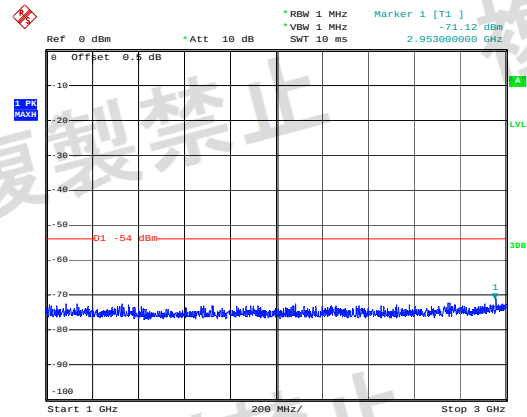
Please refer to the plots for normal voltage test.

NV (30M-1G)



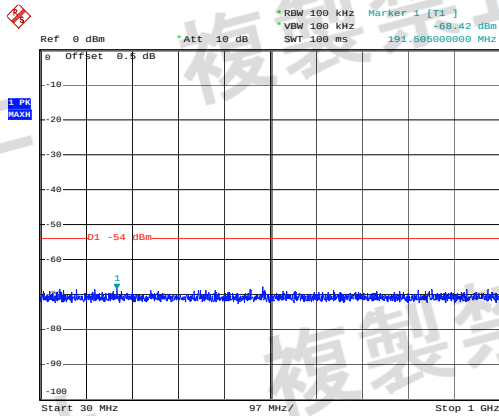
ProjectNo.:2602T57986E Tester:Harper Shen
Date: 26.MAY.2026 13:52:34

NV (1G-3G)



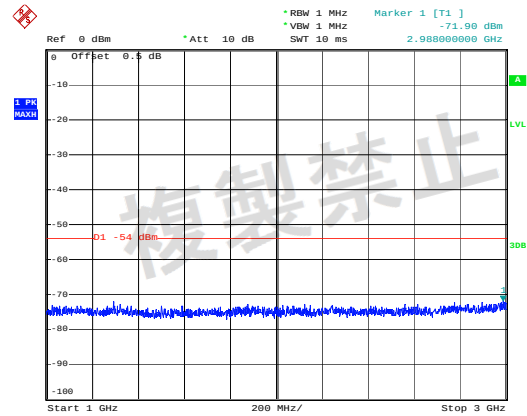
ProjectNo.:2602T57986E Tester:Harper Shen
Date: 26.MAY.2026 13:50:47

LV (30M-1G)



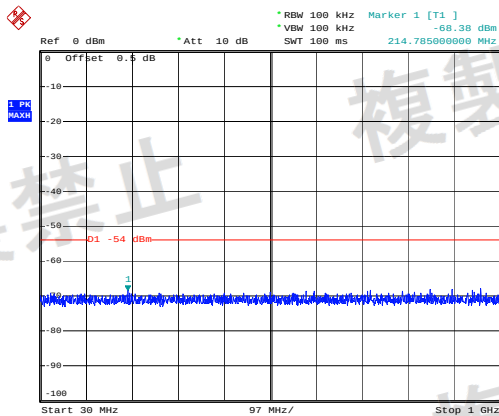
ProjectNo.:2602T57986E Tester:Harper Shen
Date: 26.MAY.2026 14:30:50

LV (1G-3G)



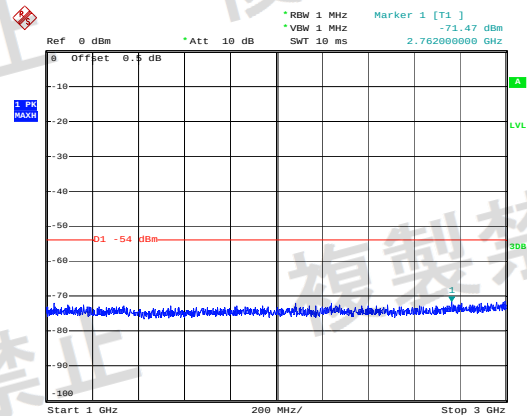
ProjectNo.:2602T57986E Tester:Harper Shen
Date: 26.MAY.2026 14:29:22

HV (30M-1G)



ProjectNo.:2602T57986E Tester:Harper Shen
Date: 26.MAY.2026 14:54:03

HV (1G-3G)



ProjectNo.:2602T57986E Tester:Harper Shen
Date: 26.MAY.2026 14:52:24

5 - TRANSMISSION TIME RESTRICTION

Limit

Transmission ON: < 0.4s
Transmission OFF: > 0.002s
Total transmission time: <720s/1h, for each radio channel: <360s/1h

Test Procedure

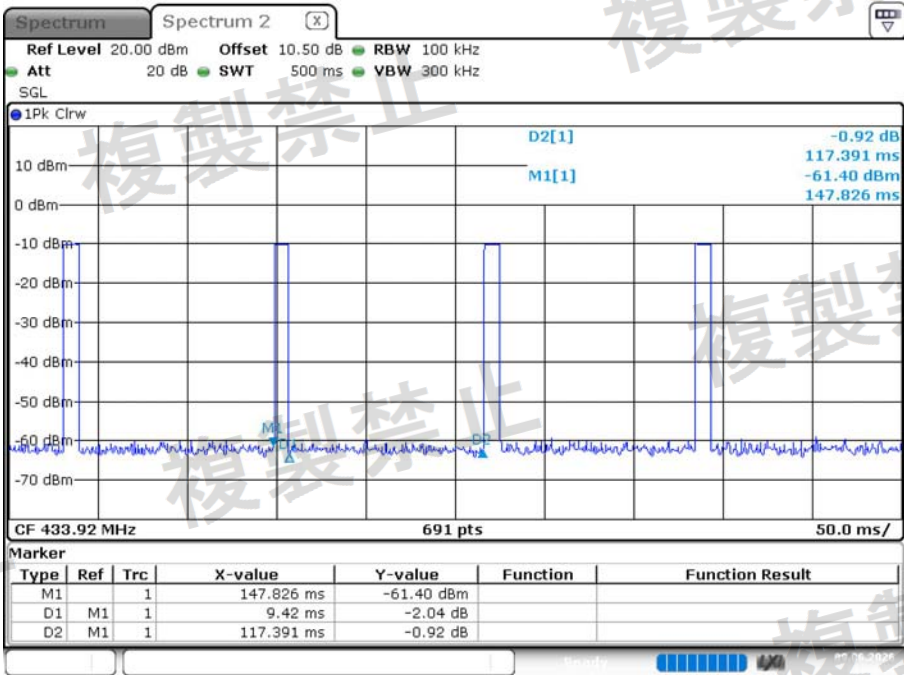
Span to 0 Hz,
Test the On and Off Time

Test Data

Test Result: Compliant

Test Frequency (MHz)	T _{ON} (s)	Limit (s)	T _{ON} + OFF (s)	T _{OFF} (s)	Limit (s)	Duty Cycle (%)	Total Transmission Time/h	Limit (s)
433.92	0.009	<1	0.117	0.108	>0.001	7.69	276.84	< 360

Note: T_{OFF} = T_{ON+OFF} - T_{ON}.



ProjectNo.:2602T57986E Tester:Harper Shen
Date: 9.JUN.2026 14:26:15

6 - HOUSING REQUIREMENTS

Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

Confirmation Result

Compliant, the RF part was covered with product case, locked by superglue, it can't be opened easily. Please refer the EUT photo.

EXHIBIT A – EUT PHOTOGRAPHS

Please refer to the attachment 2602T57986E-RF-EXP EUT External photos and 2602T57986E-RF-INP EUT Internal photos.

EXHIBIT B – TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2602T57986E-RF-TSP Test Setup Photos.

******END OF REPORT******