

TEST REPORT

Applicant: Hytera Communications Corporation Limited

Address: Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, P.R.C., P 518057

Product Name: Two-way Radio (S1mini)

Model Name: HYT-S10

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

Test method(s): MIC Notice No.88 of 2004, Appendix No.22-10 (Version: MIC Notice No.409 of 2023)

Report Number: 2602S01344E-RF-07B

Report Date: 2026/5/9

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

Carlos Wu

Rocky Xiao

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2602S01344E-RF-07B	Original Report	2026/5/9

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

Product Name:	Two-way Radio (S1mini)
Test Model:	HYT-S10
Rated Input Voltage:	DC 3.85V from battery
Serial Number:	3KEN-1
EUT Received Date:	2026/4/20
EUT Received Status:	Good

Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Adapter	Hytera	S010WT0500200	Input: 100-240Vac~50/60Hz,400mA Output: 5.0Vdc,2000mA

Technical Specification

Operation Frequency Range (MHz):	422.05-422.175, 422.2-422.3
Nominal RF Output Power (Conducted) (mW):	10
Channel Interval (kHz)	12.5
Maximum Antenna Gain (dBi)▲:	-1.75
Modulation Type:	FM
Emission Type:	F3E

Objective

The objective of this current document is to demonstrate the EUT complies with Certification Ordinance Article 2 Paragraph 1 of Item 8 - Specified Low Power Radio Equipment / Walkie-Talkie (Radio Transceiver)

Test Methodology

All measurements contained in this report were conducted with technical regulations of MIC Notice No.88 of 2004, Annex 22-10.

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	± 0.55 dB
Unwanted Emissions, conducted	± 2.47 dB
Temperature	± 1 °C
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.

EUT TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

The device employs total 20 channels as below:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	422.0500	11	422.1750
2	422.0625	12	422.2000
3	422.0750	13	422.2125
4	422.0875	14	422.2250
5	422.1000	15	422.2375
6	422.1125	16	422.2500
7	422.1250	17	422.2625
8	422.1375	18	422.2750
9	422.1500	19	422.2875
10	422.1625	20	422.3000

The extreme voltage test conditions which were declared by the manufacturer and the normal conditions are as below:

NV: Normal Voltage 3.85V_{DC}

LV: Low Voltage 3.465V_{DC}

HV: High Voltage 4.235V_{DC}

Equipment Modifications

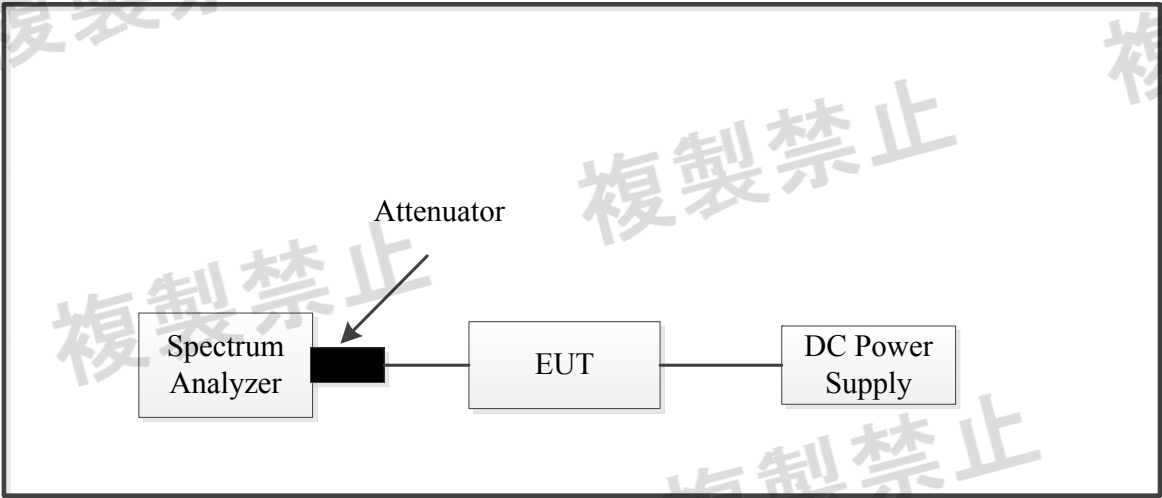
No modification was made to the EUT tested.

EUT Exercise Software

Software 'Engineering mode[▲]' was used during test, which was provided by manufacturer. The maximum power level was configured by the software as below table:

Channel	Frequency (MHz)	Power level Setting
Low	422.05	Default
Middle	422.1625	Default
High	422.3	Default

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}
Mini-Circuits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2026/2/24	2027/2/23	BACL(DG)	D
R&S	Coaxial Attenuator	10dB	F-08-EM512	2026/3/30	2027/3/29	BACL(DG)	D
HP	RF Communications Test Set	8920A	3438A05201	2026/1/27	2027/1/26	BACL Metrology	C
R&S	Spectrum Analyzer	FSU 26	200160/026	2025/7/28	2026/7/27	BACL Metrology	C
All-sun	Clamp Meter	EM305A	8348897	2025/8/18	2026/8/17	BACL Metrology	C
Emerson	DC Power Supply	ONU4820	2102130353 20950100A0	N/A	N/A	N/A	N/A
Agilent	MXG Vector Signal Generator	N5182B	MY51350142	2025/7/30	2026/7/29	BACL Metrology	C
R&S	Spectrum Analyzer	FSV40	101461	2025/8/3	2026/8/2	GRGTEST	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:	24~26.2℃
Relative Humidity:	49~71%
ATM Pressure:	100.2~101kPa
Tester:	Colin Yang
Test Date:	2026/4/22~2026/5/9

SUMMARY OF TEST RESULTS

Certification Ordinance Article 2-1-8 (Conducted with: MIC Notice No.88 Annex 22-10)	Description of Test Item	Result
1	Frequency Tolerance	Compliant
2	Antenna Power, Antenna Power Tolerance	Compliant
3	Occupied Bandwidth	Compliant
4	Spurious Emission / Unwanted Emission Strength	Compliant
5	Secondary Radiated Emission Strength	Compliant
6	Adjacent Channel Leakage Power	Compliant
7	Housing Requirements	Compliant
8	Transmitter Antenna Gain	Compliant*
9	Transmission Time Restriction	Compliant
10	Carrier Sensing Function	Compliant
11	Interference Prevention Function	Compliant

Note:

Compliant*: Transmitter Antenna Gain shall be 2.14dBi or less; According to the antenna report provided by manufacturer, maximal antenna gain is -1.75dBi, meet requirement;

1 - FREQUENCY TOLERANCE

Limit

+/-2 ppm for 6.25kHz interval; +/-4 ppm for 12.5kHz interval.

Test Procedure

Set the EUT to the measurement frequency without modulation.

Setting of SA is following as:

Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: MAX Hold.

Record the peak spot frequency.

Test Data

Test Result: Compliant

Test Mode: Transmitting

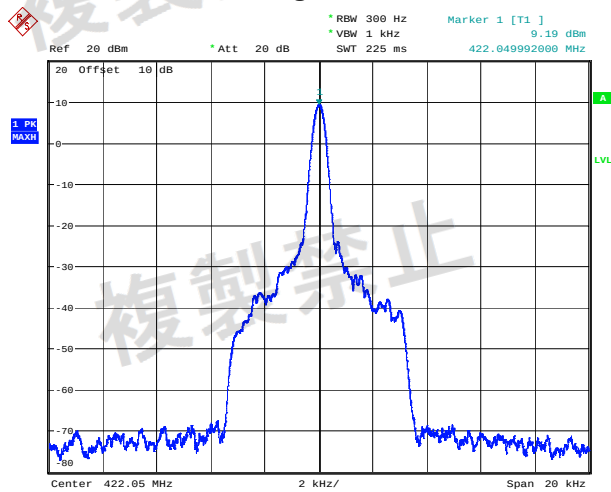
Test Voltage(V)	Test frequency (MHz)	Measured result(MHz)	Tolerance (ppm)	Limit (ppm)
V_{low}	422.05	422.049978	-0.05	-4~+4
	422.1625	422.162464	-0.09	
	422.3	422.299978	-0.05	
V_{nor}	422.05	422.049992	-0.02	
	422.1625	422.162492	-0.02	
	422.3	422.300008	0.02	
V_{high}	422.05	422.049992	-0.02	
	422.1625	422.162478	-0.05	
	422.3	422.299978	-0.05	

Note:

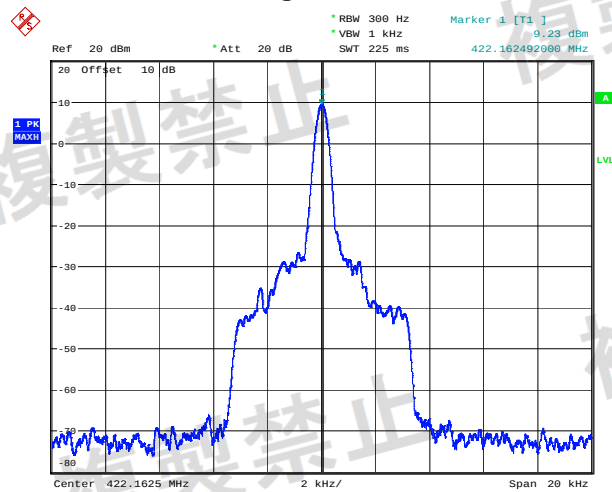
$$\text{Tolerance} = (\text{Measured Result} - \text{Test Frequency}) / \text{Test Frequency} * 10^6$$

Please refer to the plots

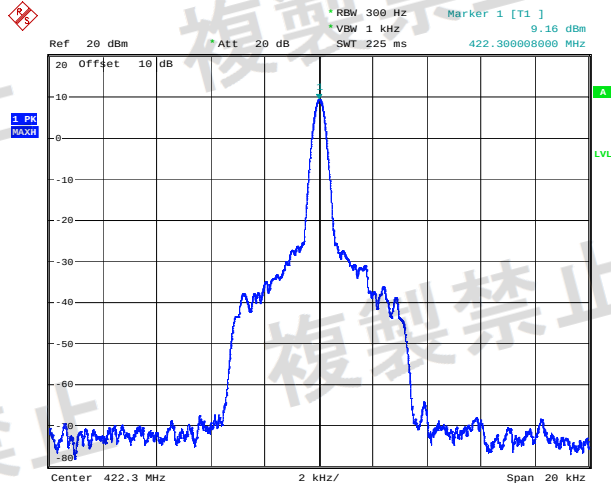
Normal Voltage, Low Channel



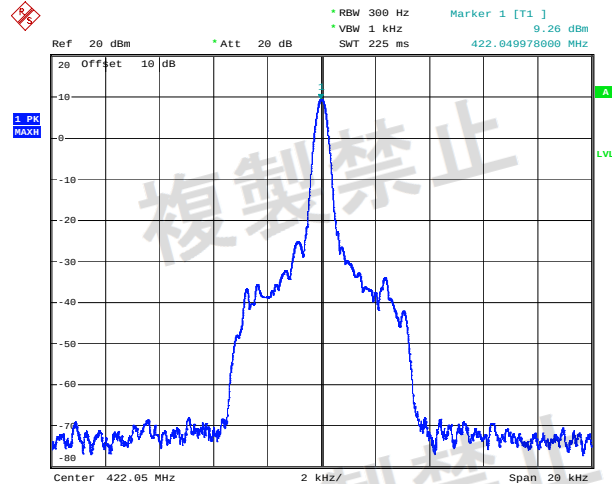
Normal Voltage, Middle Channel



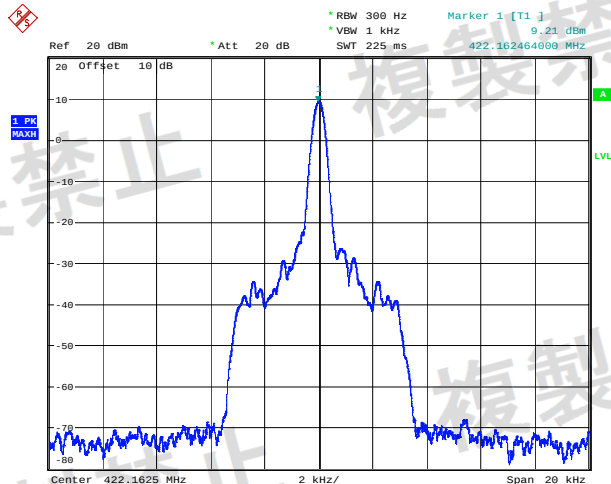
Normal Voltage, High Channel



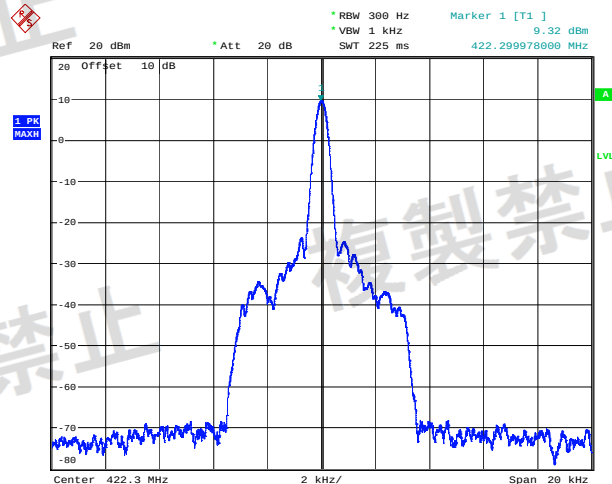
Low Voltage, Low Channel



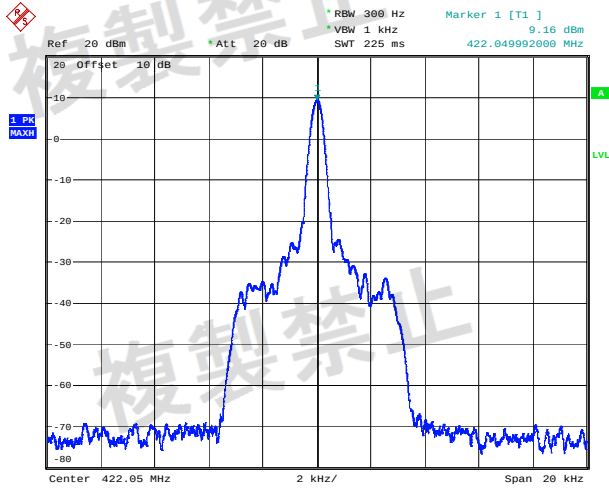
Low Voltage, Middle Channel



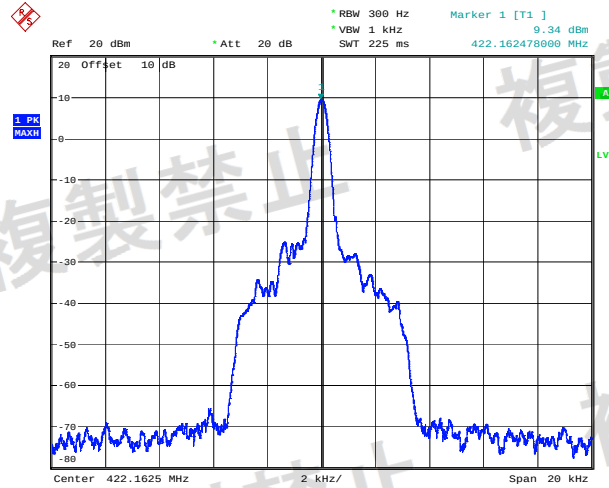
Low Voltage, High Channel



High Voltage, Low Channel



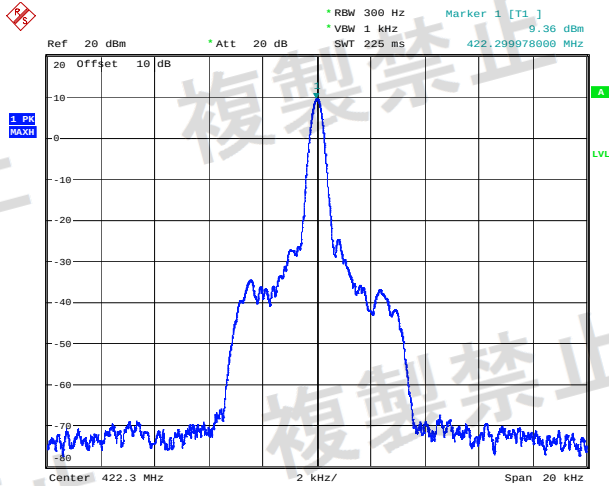
High Voltage, Middle Channel



Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 30.APR.2026 11:03:55

Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 30.APR.2026 11:06:13

High Voltage, High Channel



Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 30.APR.2026 11:05:14

2 - ANTENNA POWER, ANTENNA POWER TOLERANCE

Limit

CH interval	Frequency (Frequency Control Channel)	Antenna Power
6.25kHz	421.578125 ~ 421.803125 MHz 440.028125 ~ 440.253125 MHz (421.796875 MHz, 421.803125 MHz, 440.246875 MHz, 440.253125 MHz)	0.01W
	421.809375 ~ 421.909375 MHz 440.259375 ~ 440.359375 MHz	0.1W
	422.053125 ~ 422.190625 MHz (422.184375 MHz, 422.190625 MHz)	0.01W
	422.196875 ~ 422.296875 MHz	
6.25kHz	413.700000 ~ 414.143750 MHz 454.050000 ~ 454.193750 MHz	0.001W
12.5kHz	421.575000 ~ 421.800000 MHz 440.025000 ~ 440.250000 MHz (421.800000 MHz, 440.250000 MHz)	0.01W
	421.812500 ~ 421.912500 MHz 440.262500 ~ 440.362500 MHz	
	422.050000 ~ 422.187500 MHz (422.187500 MHz)	
	422.200000 ~ 422.300000 MHz	

The Output Power Tolerance must be within +20%, -50%.

Test Procedure

1. Set and send continuously Up power control commands to the UE.
2. Measure the mean power of the UE in a bandwidth of at least $(1 + \alpha)$ times the chip rate of the radio access mode. The mean power shall be averaged over at least one timeslot.

Test Data

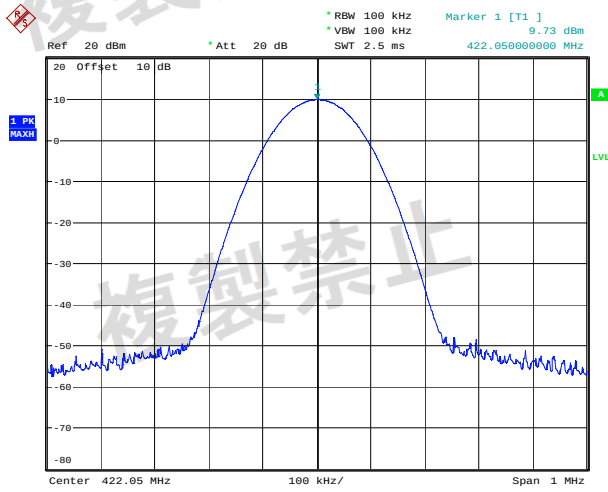
Test Result: Compliant

Test Voltage (V)	Test frequency (MHz)	Antenna Power (dBm)	Antenna Power (mW)	Limit (mW)	Tolerance (%)	Tolerance Limit (%)
V_{low}	422.05	9.76	9.46	10	-5.4	-50~+20
	422.1625	9.71	9.35		-6.5	
	422.3	9.70	9.33		-6.7	
V_{nor}	422.05	9.73	9.40		-6.0	
	422.1625	9.72	9.38		-6.2	
	422.3	9.68	9.29		-7.1	
V_{high}	422.05	9.77	9.48		-5.2	
	422.1625	9.77	9.48		-5.2	
	422.3	9.85	9.66		-3.4	

Note: Declared rated power: 10mW;

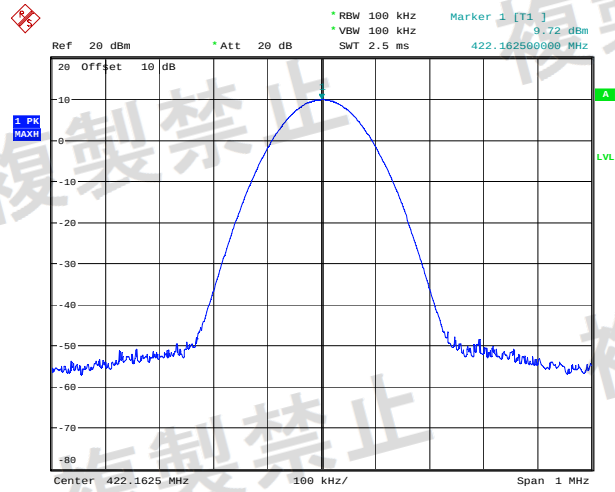
Please refer to the plots.

Normal Voltage, Low Channel



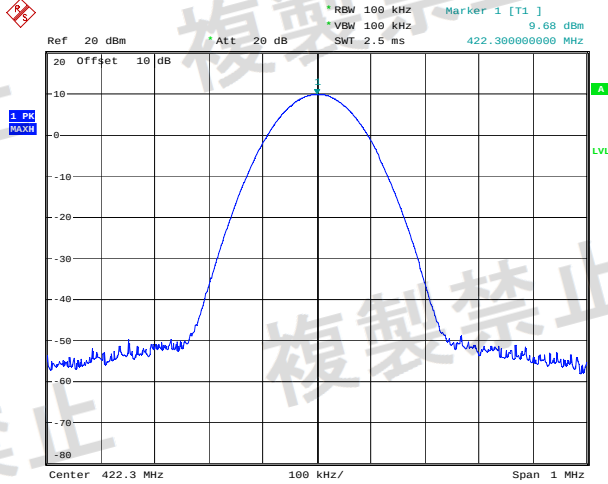
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Date: 22.APR.2026 13:44:18

Normal Voltage, Middle Channel



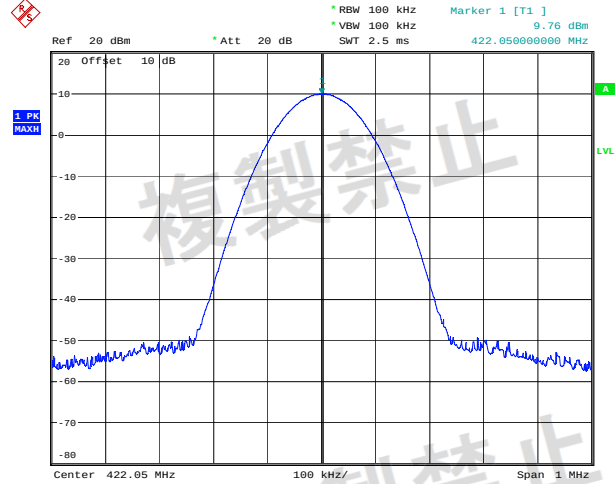
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Date: 22.APR.2026 13:45:00

Normal Voltage, High Channel



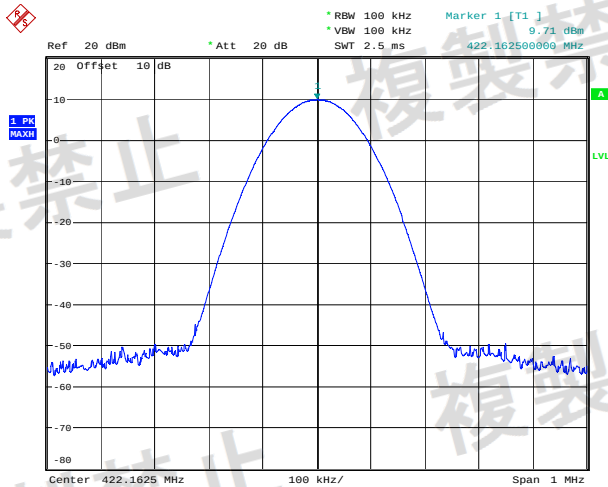
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Date: 22.APR.2026 13:46:21

Low Voltage, Low Channel



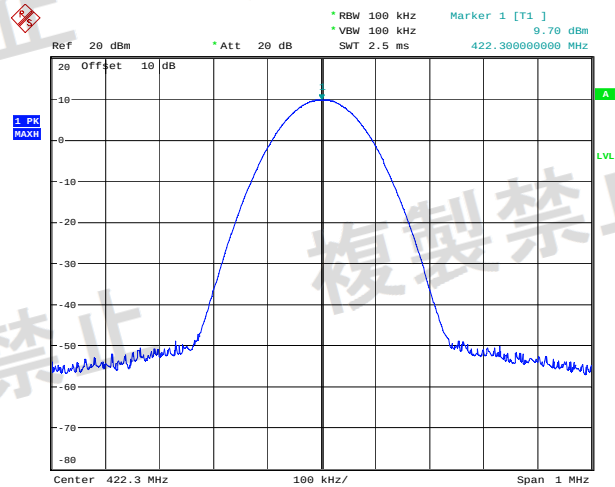
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Date: 22.APR.2026 13:41:19

Low Voltage, Middle Channel



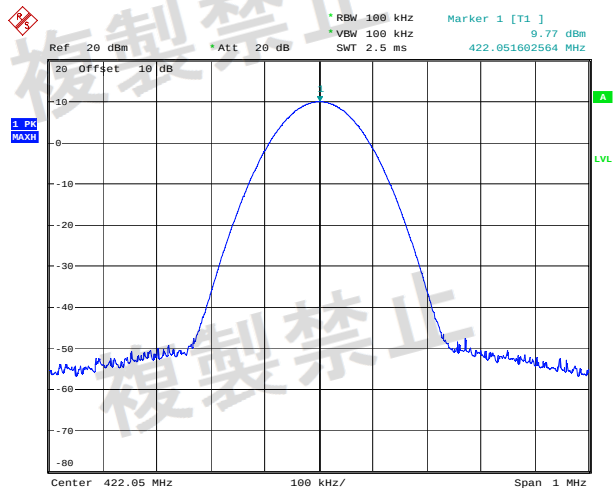
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Date: 22.APR.2026 13:40:46

Low Voltage, High Channel



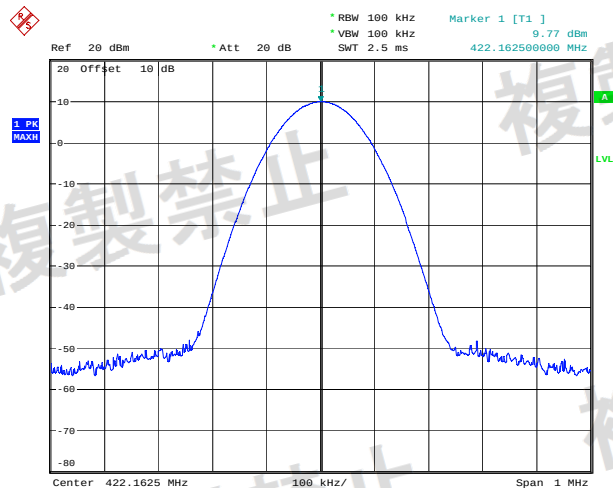
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Date: 22.APR.2026 13:40:11

High Voltage, Low Channel



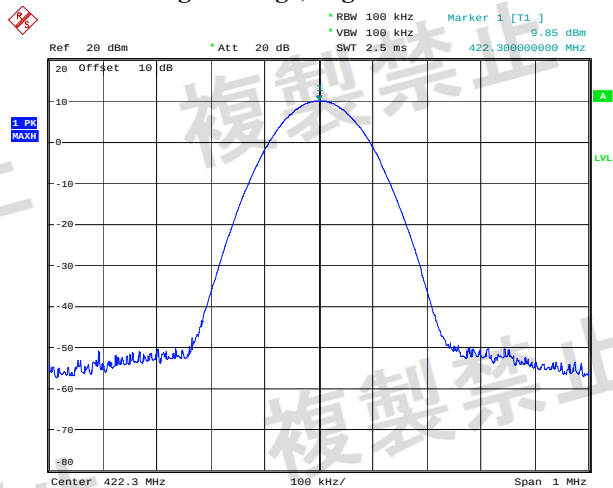
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Date: 22.APR.2026 13:29:33

High Voltage, Middle Channel



Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 22.APR.2026 13:32:13

High Voltage, High Channel



Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 22.APR.2026 13:33:38

3 - OCCUPIED BANDWIDTH

Limit

5.8 kHz or less for 6.25kHz interval; 8.5 kHz or less for 12.5kHz interval

Test Procedure

1. Setting of SA is following as: RB: 100Hz/VB:100Hz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.

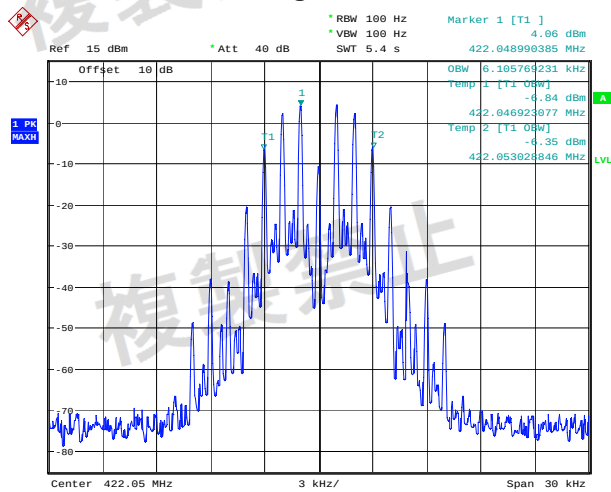
Test Data

Test Result: Compliant.

Test Voltage(V)	Test frequency (MHz)	Result (kHz)	Limit (kHz)
V_{low}	422.05	6.11	≤ 8.5
	422.1625	6.11	
	422.3	6.15	
V_{nor}	422.05	6.11	
	422.1625	6.11	
	422.3	6.11	
V_{high}	422.05	6.11	
	422.1625	6.11	
	422.3	6.11	

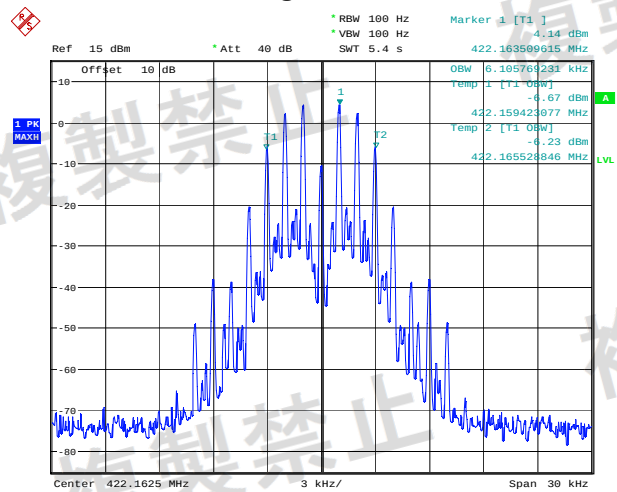
Please refer to the plots.

Normal Voltage, Low Channel



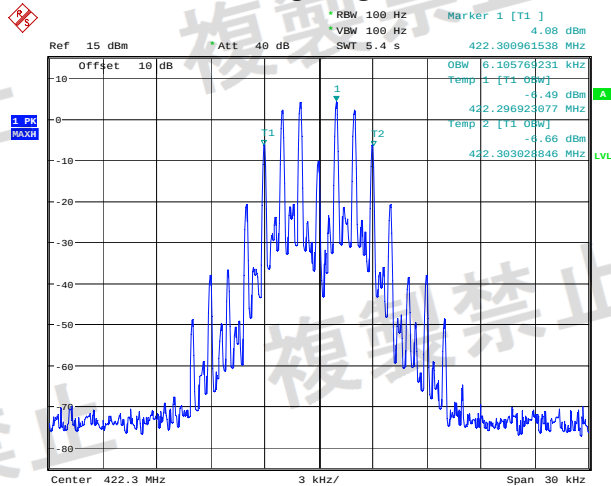
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Normal Voltage, Middle Channel



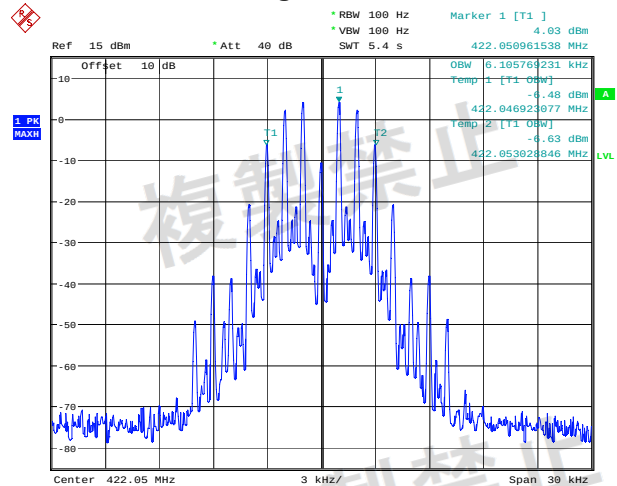
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 Date: 30.APR.2026 11:43:41

Normal Voltage, High Channel



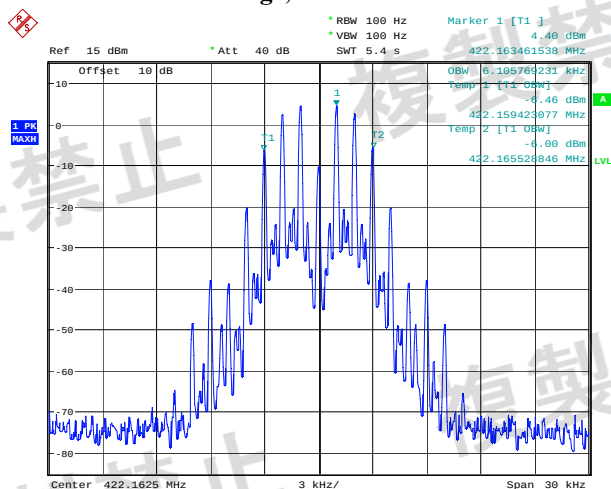
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 Date: 30.APR.2026 11:41:24

Low Voltage, Low Channel



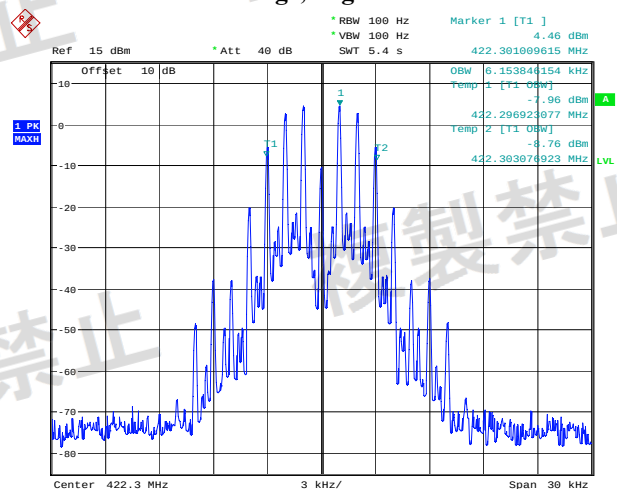
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 Date: 30.APR.2026 11:29:47

Low Voltage, Middle Channel



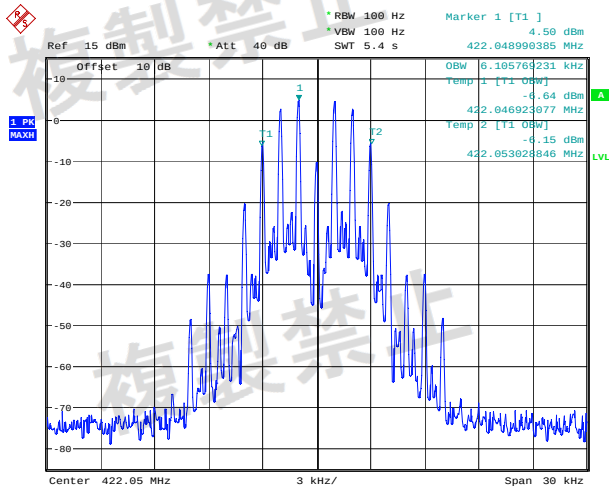
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Low Voltage, High Channel



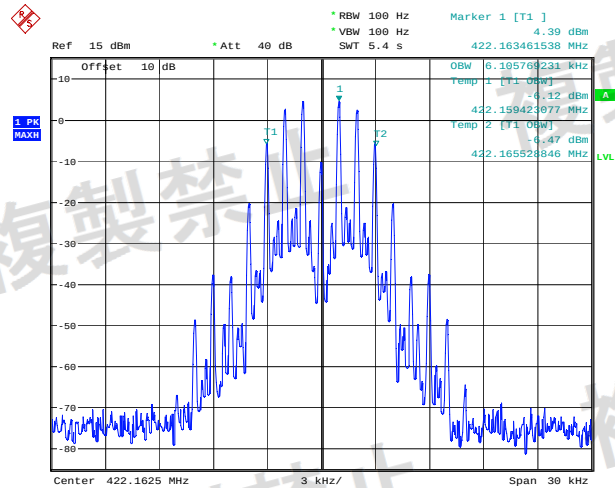
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High Voltage, Low Channel



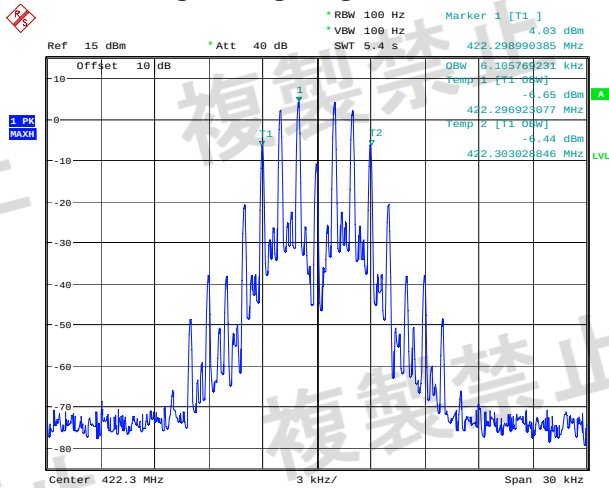
Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 30.APR.2026 11:28:33

High Voltage, Middle Channel



Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 30.APR.2026 11:27:02

High Voltage, High Channel



Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 30.APR.2026 11:32:10

4 - SPURIOUS EMISSION / UNWANTED EMISSION STRENGTH

Limit

2.5 μ W or less.

Test Procedure**Conditions of Application Equipment (EUT):**

The modulation state shall be in continuously transmitting mode.

Spectrum Analyzer Setup:

Setting of SA start 9kHz and stop frequency 150kHz, RB: 1kHz/VB: 1kHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than 2.5 μ W.

Setting of SA start 150kHz and stop frequency 30MHz, RB: 10kHz/VB: 10kHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than 2.5 μ W.

Setting of SA start 30MHz and stop frequency 1GHz, RB: 100kHz/VB: 100kHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than 2.5 μ W.

Setting of SA start 1GHz and stop frequency 4GHz, RB: 1MHz/VB: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than 2.5 μ W.

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

Test Voltage(V)	Test frequency (MHz)	Test Band (RBW)	Frequency Range		Max. Emission Located (MHz)	Result (dBm)	Result (μW)	Limit (μW)
			Start (MHz)	Stop (MHz)				
V _{low}	422.05	Band I (1kHz)	0.009	0.15	0.06082455	-52.41	0.006	2.5
		Band II (10kHz)	0.15	30	0.1604475	-52.07	0.006	2.5
		Band III (100kHz)	30	1000	914.7855	-46.96	0.020	2.5
		Band IV (1MHz)	1000	5000	4367.4	-32.27	0.593	2.5
	422.1625	Band I (1kHz)	0.009	0.15	0.06083865	-52.41	0.006	2.5
		Band II (10kHz)	0.15	30	0.182835	-53.66	0.004	2.5
		Band III (100kHz)	30	1000	982.2005	-46.98	0.020	2.5
		Band IV (1MHz)	1000	5000	4738.6	-32.12	0.614	2.5
	422.3	Band I (1kHz)	0.009	0.15	0.061029	-52.76	0.005	2.5
		Band II (10kHz)	0.15	30	0.1604475	-53.46	0.005	2.5
		Band III (100kHz)	30	1000	844.5575	-46.51	0.022	2.5
		Band IV (1MHz)	1000	5000	4115.8	-32.45	0.569	2.5
V _{nor}	422.05	Band I (1kHz)	0.009	0.15	0.0609444	-52.76	0.005	2.5
		Band II (10kHz)	0.15	30	0.1902975	-53.46	0.005	2.5
		Band III (100kHz)	30	1000	131.4135	-47.37	0.018	2.5
		Band IV (1MHz)	1000	5000	4681.6	-32.64	0.545	2.5
	422.1625	Band I (1kHz)	0.009	0.15	0.0609867	-52.76	0.005	2.5
		Band II (10kHz)	0.15	30	0.1962675	-52.72	0.005	2.5
		Band III (100kHz)	30	1000	844.3635	-46.28	0.024	2.5
		Band IV (1MHz)	1000	5000	4484.4	-31.90	0.646	2.5
	422.3	Band I (1kHz)	0.009	0.15	0.0609867	-52.41	0.006	2.5
		Band II (10kHz)	0.15	30	0.19179	-52.76	0.005	2.5
		Band III (100kHz)	30	1000	844.606	-44.52	0.035	2.5
		Band IV (1MHz)	1000	5000	4273.8	-32.10	0.617	2.5
V _{high}	422.05	Band I (1kHz)	0.009	0.15	0.06096555	-52.41	0.006	2.5
		Band II (10kHz)	0.15	30	0.1604475	-53.03	0.005	2.5
		Band III (100kHz)	30	1000	905.037	-47.38	0.018	2.5
		Band IV (1MHz)	1000	5000	4772.8	-31.97	0.635	2.5
	422.1625	Band I (1kHz)	0.009	0.15	0.06117	-52.11	0.006	2.5
		Band II (10kHz)	0.15	30	0.18582	-53.32	0.005	2.5
		Band III (100kHz)	30	1000	529.8895	-47.23	0.019	2.5
		Band IV (1MHz)	1000	5000	4649.6	-33.16	0.483	2.5
	422.3	Band I (1kHz)	0.009	0.15	0.0609867	-52.76	0.005	2.5
		Band II (10kHz)	0.15	30	0.1962675	-53.66	0.004	2.5
		Band III (100kHz)	30	1000	854.694	-46.12	0.024	2.5
		Band IV (1MHz)	1000	5000	4851.4	-32.54	0.557	2.5

Note:

Band I: 9kHz~150kHz

Band II: 150kHz~30MHz

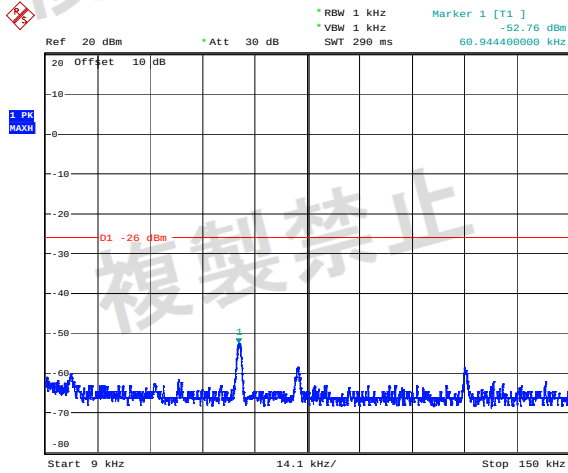
Band III: 30MHz~1000MHz

Band IV: 1000MHz~4000MHz

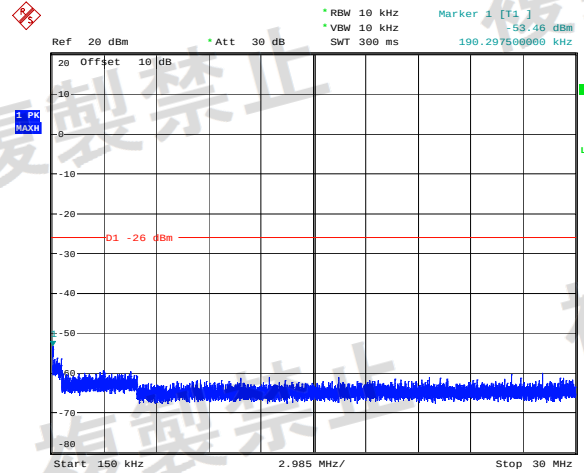
Please refer to the plots.

Normal Voltage:

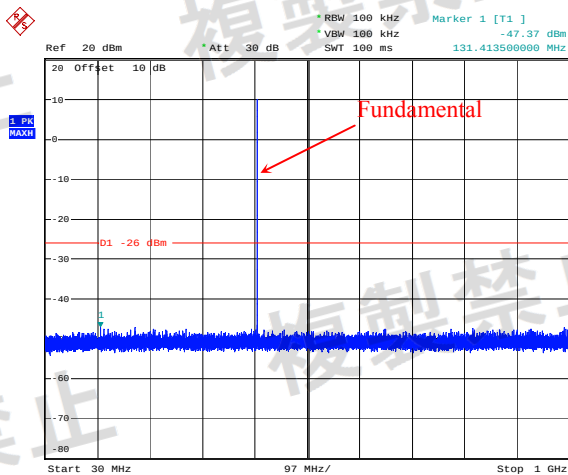
Low Channel



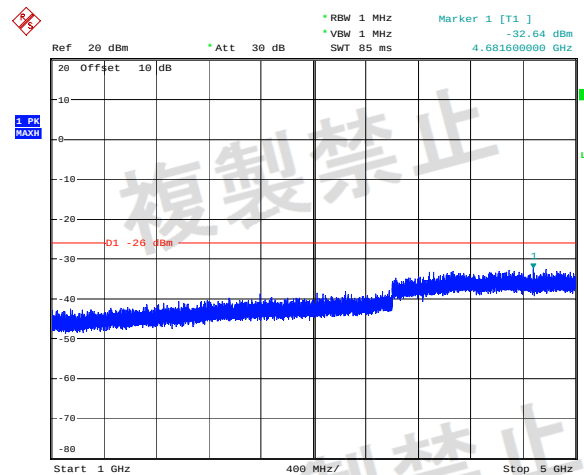
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Date: 23.APR.2026 10:43:34



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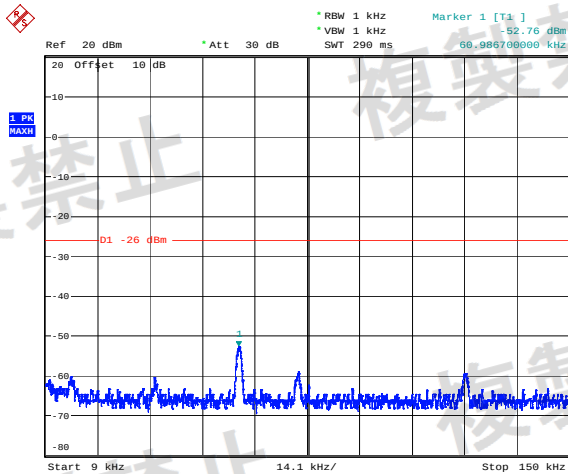


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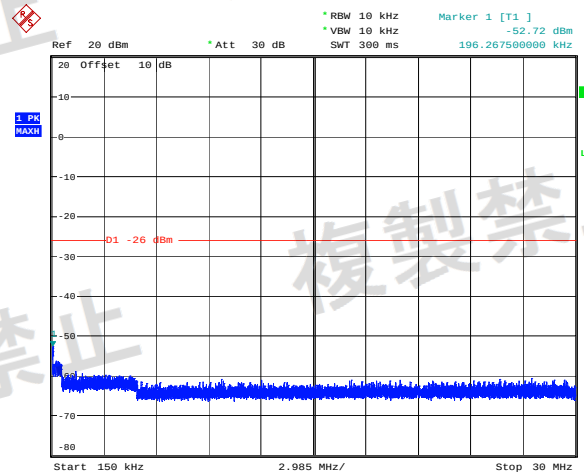


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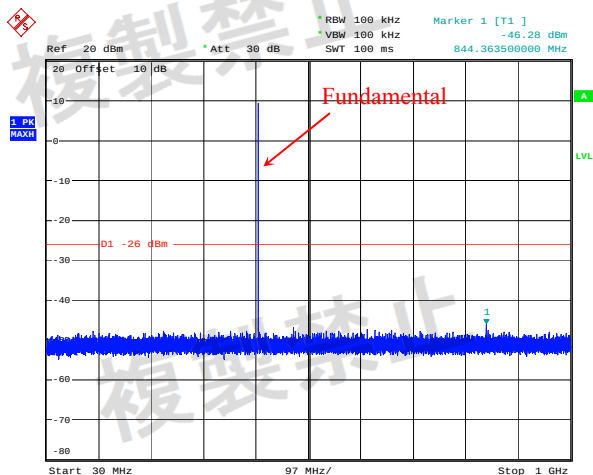
Middle Channel



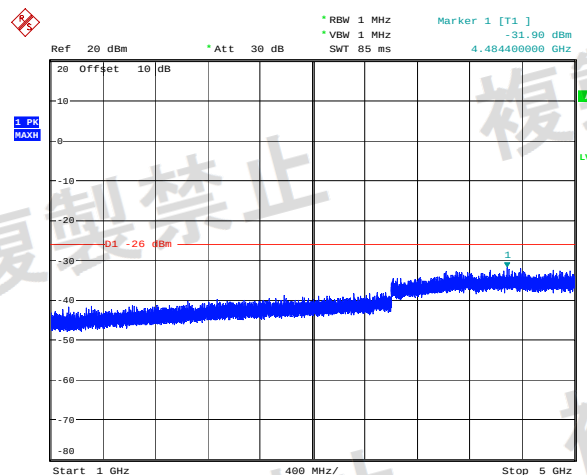
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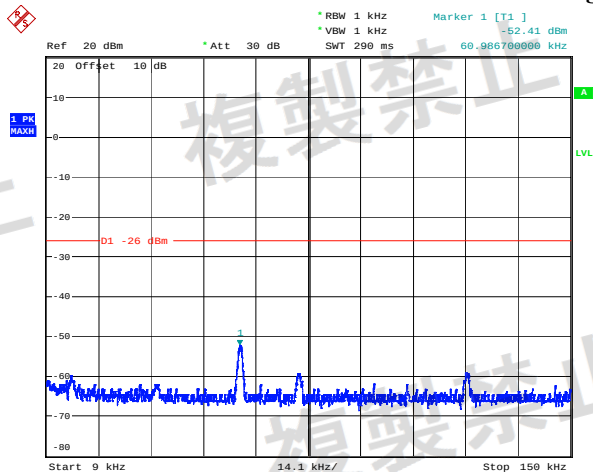


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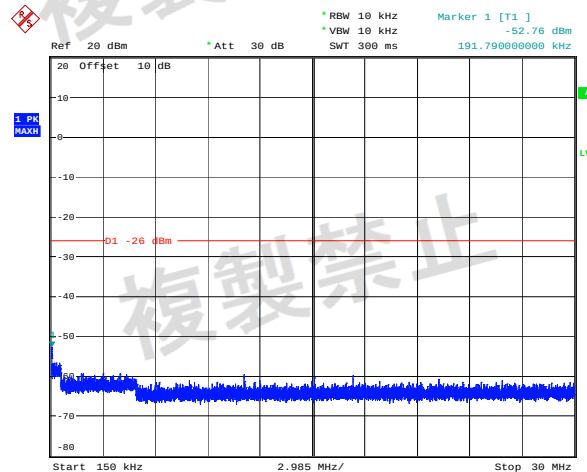


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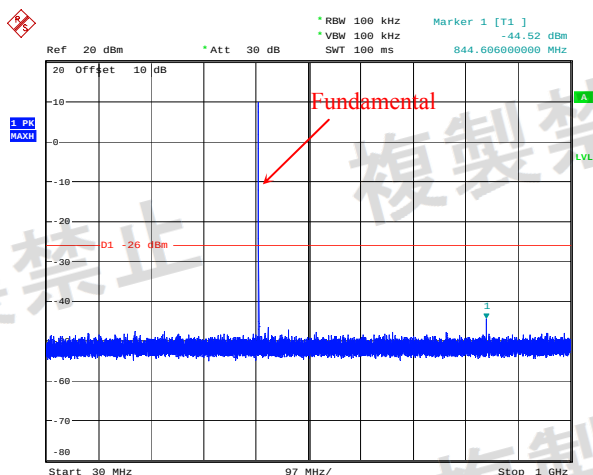
High Channel



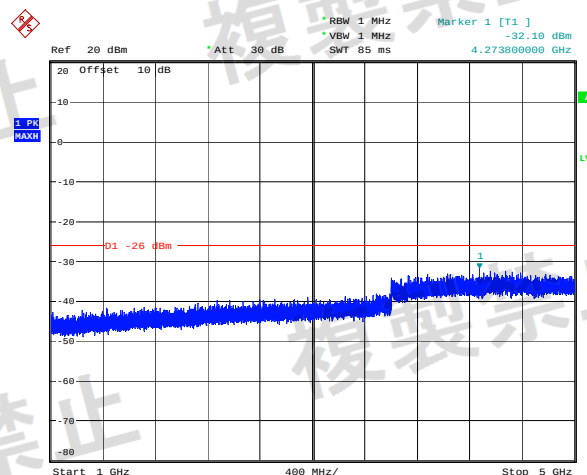
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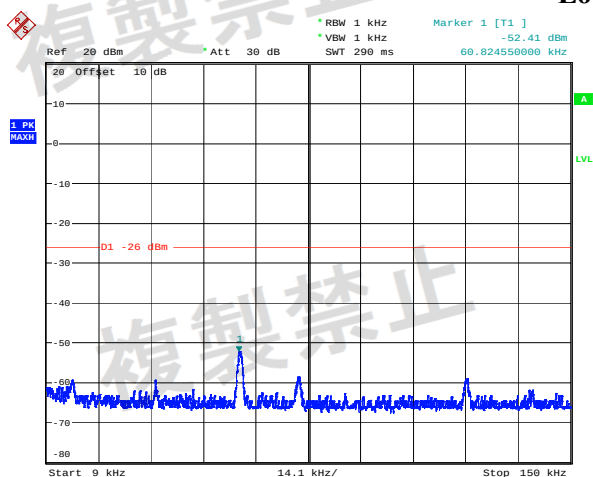
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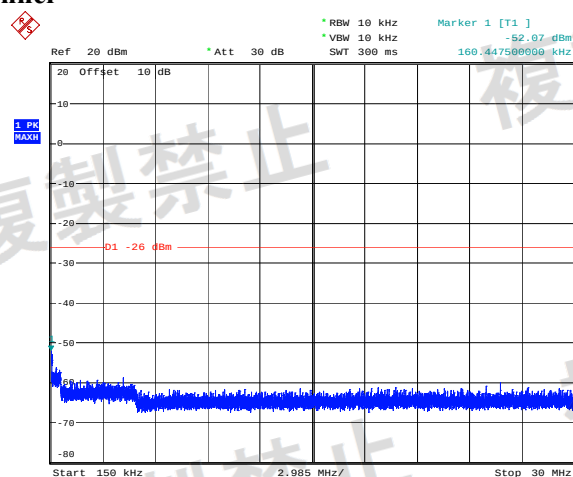
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Low Voltage:

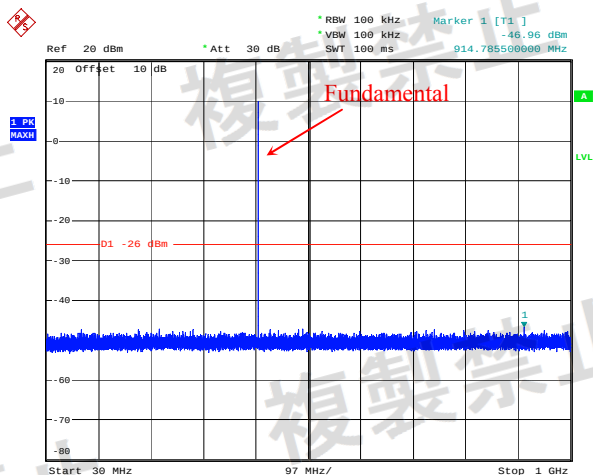
Low Channel



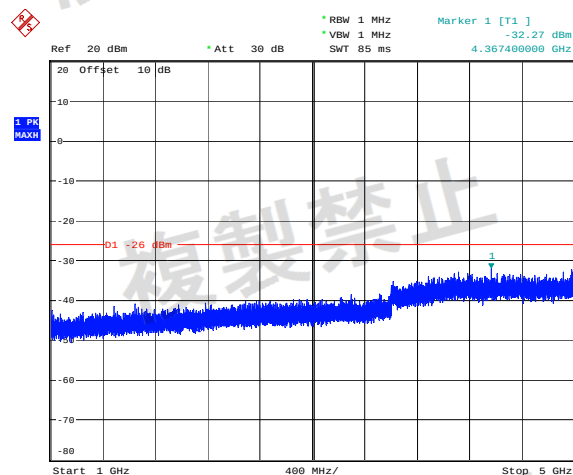
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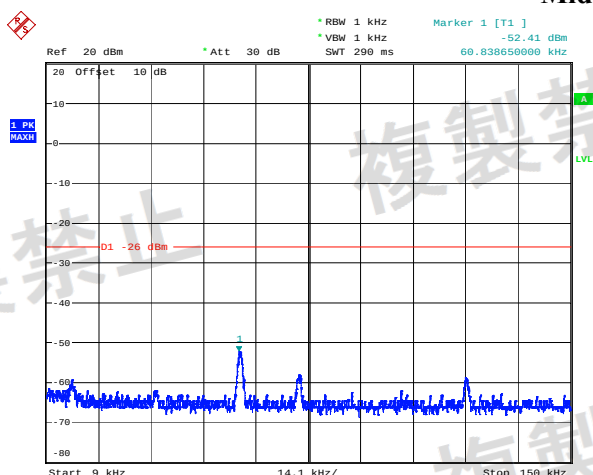


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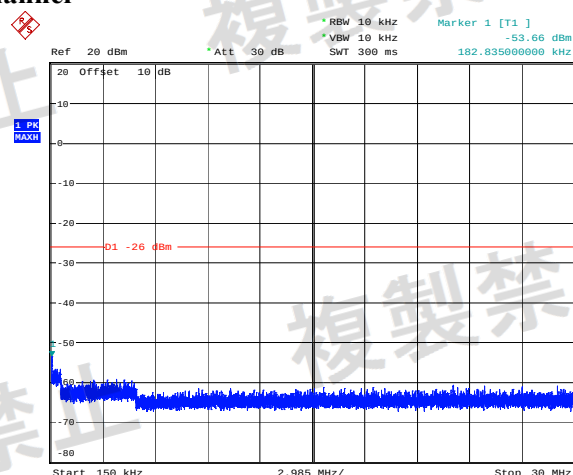


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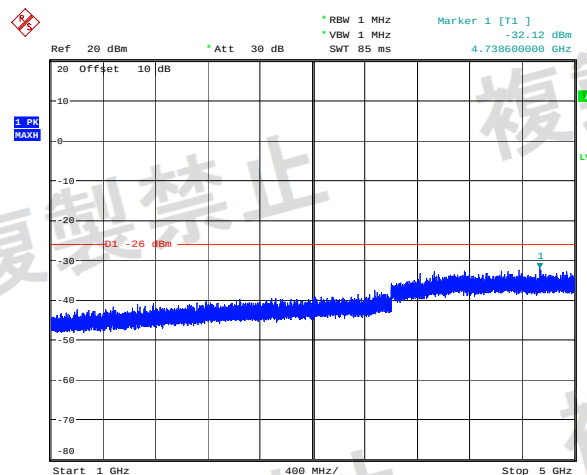
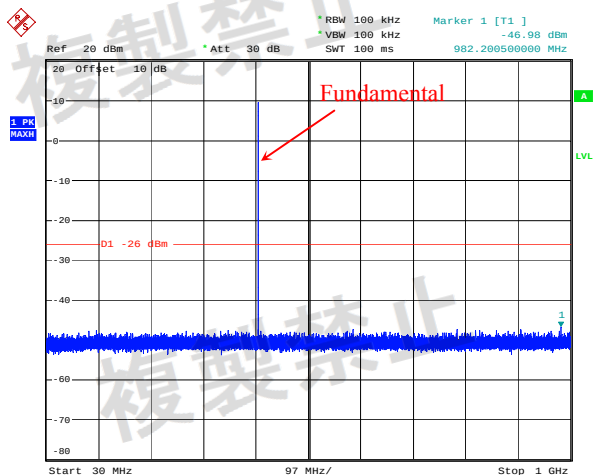
Middle Channel



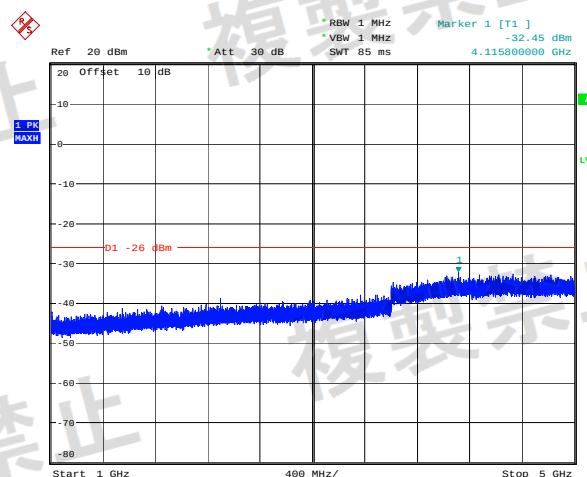
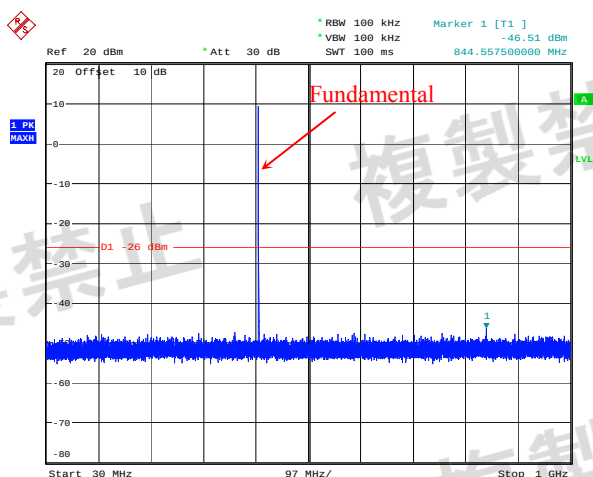
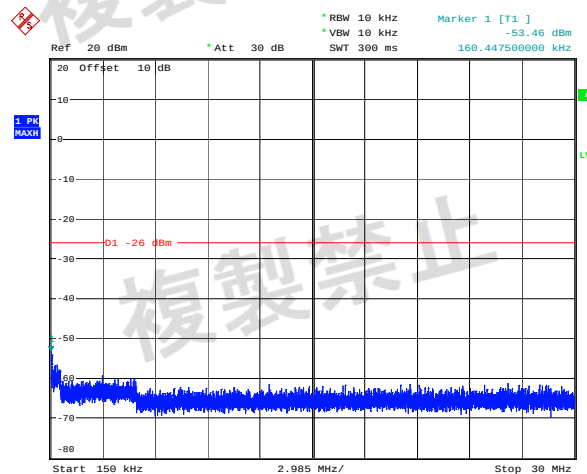
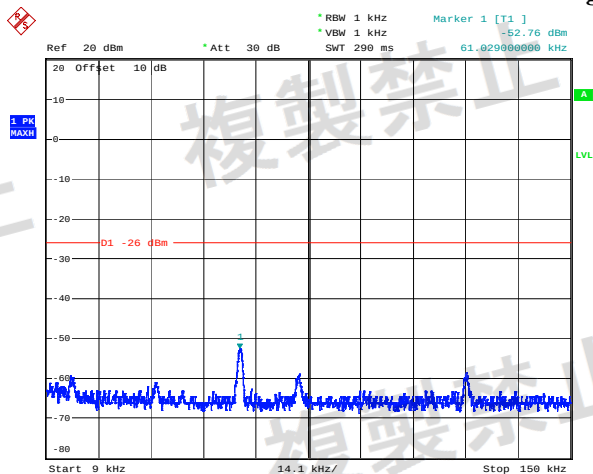
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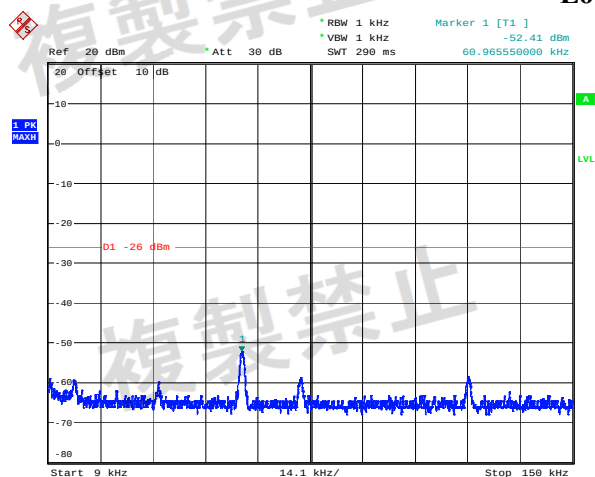


High Channel

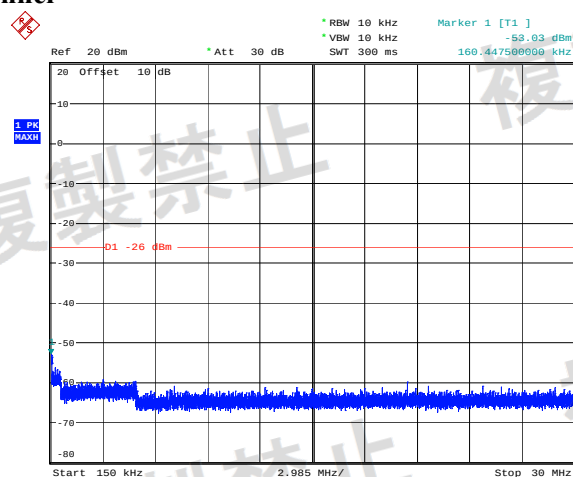


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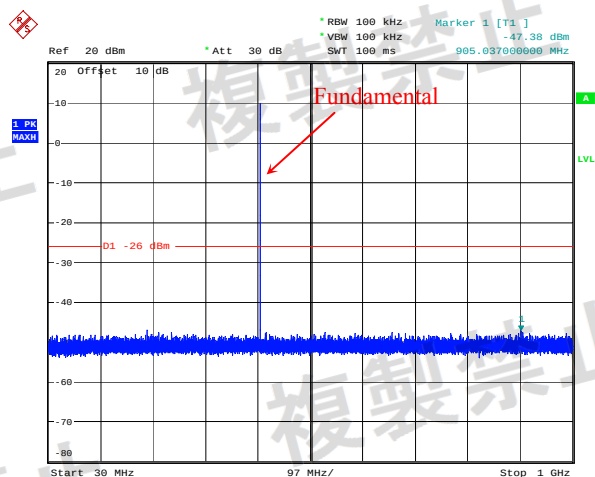
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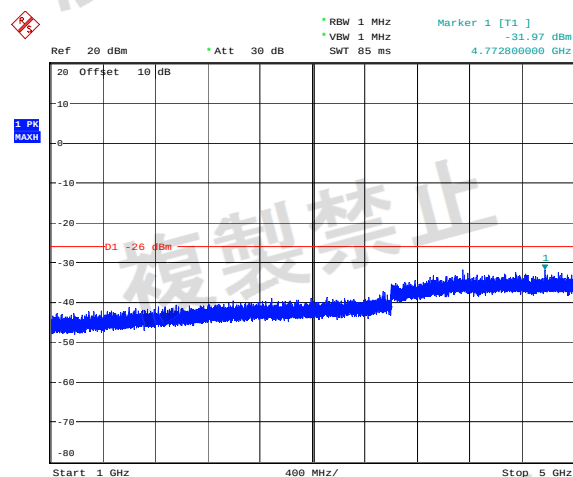
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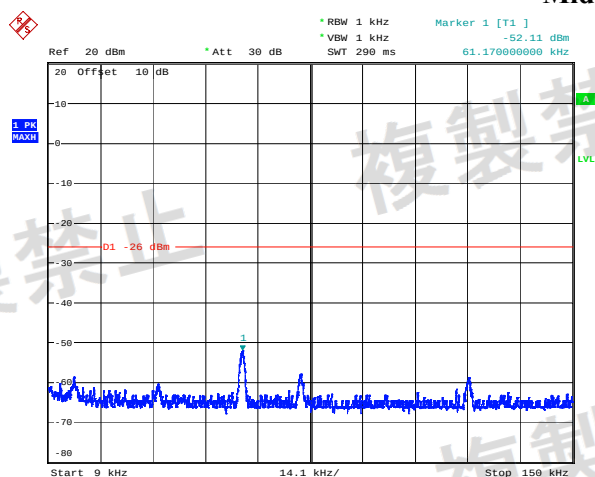


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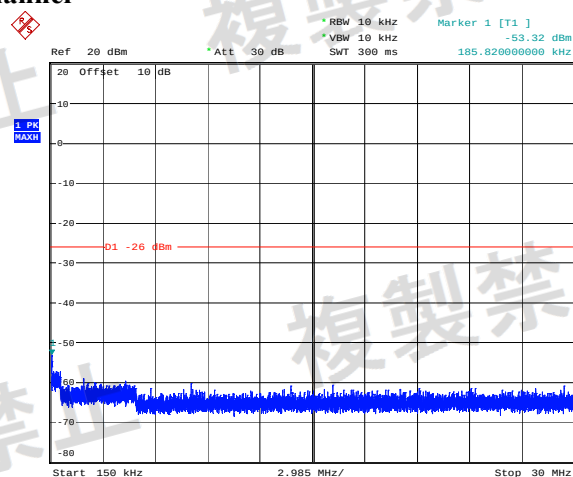


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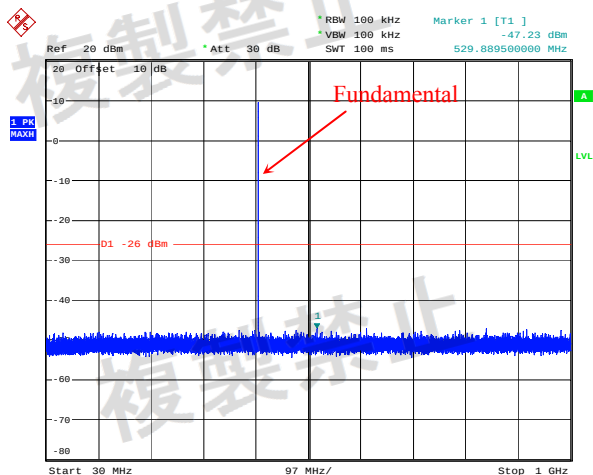
Middle Channel



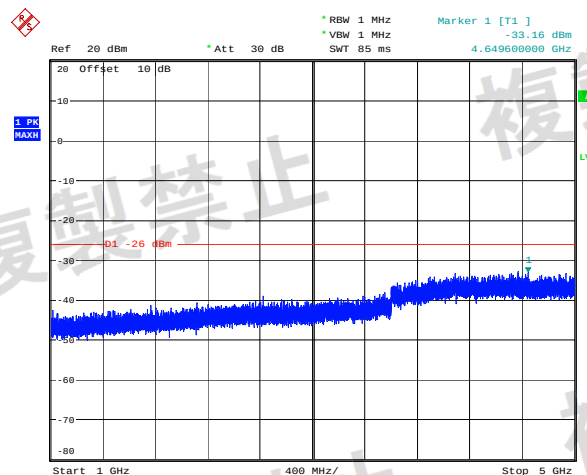
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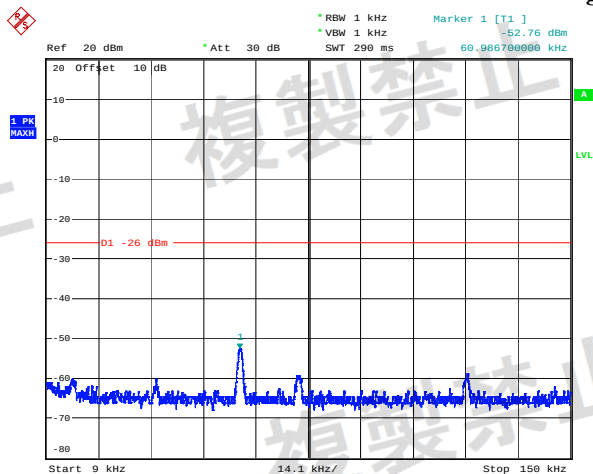


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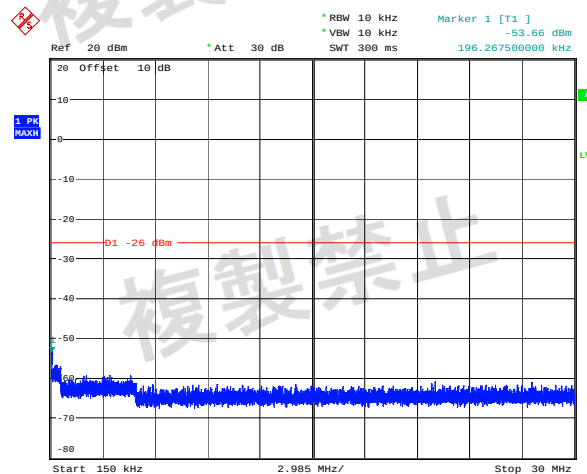


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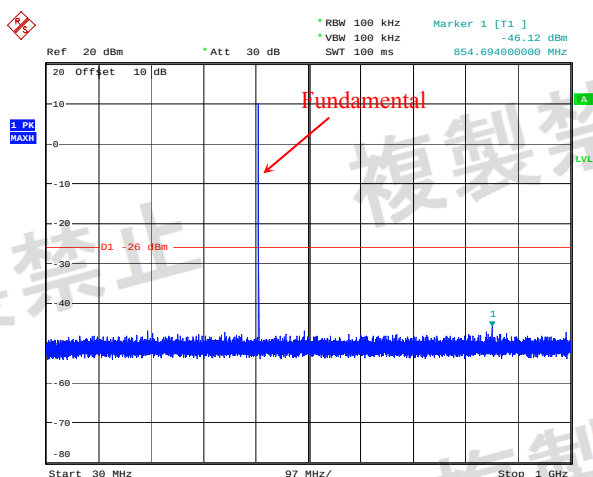
High Channel



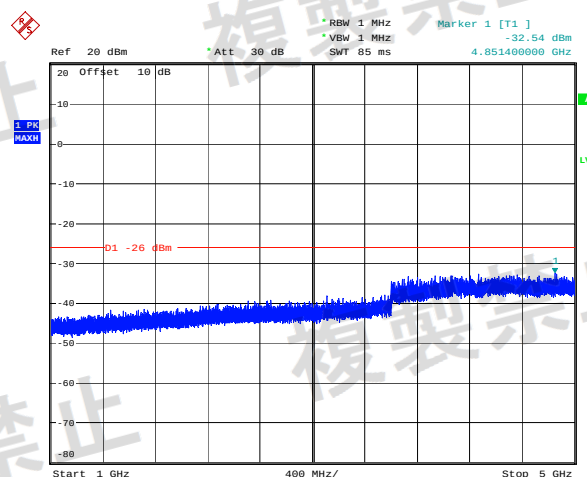
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Date: 23.APR.2026 11:39:47



Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 24.APR.2026 10:30:45

5 - SECONDARY RADIATED EMISSION STRENGTH

Limit

4 nW or less

Test Procedure

Conditions of Application Equipment (EUT):

The modulation state shall be “continuous receiving mode”.

Spectrum Analyzer Conditions:

Setting of SA start 9kHz and stop frequency 150kHz, RB: 10kHz/VB: 10kHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than 4nW.

Setting of SA start 150kHz and stop frequency 30MHz, RB: 10kHz/VB: 10kHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than 4nW.

Setting of SA start 30MHz and stop frequency 1GHz, RB: 100kHz/VB: 100kHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than 4nW.

Setting of SA start 1GHz and stop frequency 4GHz, RB: 1MHz/VB: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than 4nW.

Test Data

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

Test Mode: Receiving

Test Voltage(V)	Test frequency (MHz)	Test Band (RBW)	Frequency Range		Max. Emission Located (MHz)	Result (dBm)	Result (nW)	Limit (nW)
			Start (MHz)	Stop (MHz)				
V _{low}	422.05	Band I (10kHz)	0.009	0.15	0.0091093	-73.83	0.041	4
		Band II (10kHz)	0.15	30	25.0845	-76.17	0.024	4
		Band III (100kHz)	30	1000	985.426	-65.09	0.310	4
		Band IV (1MHz)	1000	4000	2611.98	-65.10	0.309	4
	422.1625	Band I (10kHz)	0.009	0.15	0.0091586	-73.92	0.041	4
		Band II (10kHz)	0.15	30	0.1896	-76.16	0.024	4
		Band III (100kHz)	30	1000	837.646	-65.31	0.294	4
		Band IV (1MHz)	1000	4000	1055.28	-74.07	0.039	4
	422.3	Band I (10kHz)	0.009	0.15	0.0091022	-74.29	0.037	4
		Band II (10kHz)	0.15	30	24.6188	-75.48	0.028	4
		Band III (100kHz)	30	4000	875.476	-65.09	0.310	4
		Band IV (1MHz)	1000	5000	1087.53	-74.27	0.037	4
V _{nor}	422.05	Band I (10kHz)	0.009	0.15	0.0090247	-73.16	0.048	4
		Band II (10kHz)	0.15	30	25.2218	-75.95	0.025	4
		Band III (100kHz)	30	1000	999.879	-65.29	0.296	4
		Band IV (1MHz)	1000	4000	3361.68	-73.63	0.043	4
	422.1625	Band I (10kHz)	0.009	0.15	0.0090247	-73.61	0.044	4
		Band II (10kHz)	0.15	30	0.1537	-74.25	0.038	4
		Band III (100kHz)	30	1000	920.048	-64.70	0.339	4
		Band IV (1MHz)	1000	4000	3498.18	-74.00	0.040	4
	422.3	Band I (10kHz)	0.009	0.15	0.0091163	-73.99	0.040	4
		Band II (10kHz)	0.15	30	0.1552	-75.63	0.027	4
		Band III (100kHz)	30	1000	831.05	-64.25	0.376	4
		Band IV (1MHz)	1000	4000	3506.28	-69.60	0.110	4
V _{high}	422.05	Band I (10kHz)	0.009	0.15	0.009074	-75.84	0.026	4
		Band II	0.15	30	26.2486	-76.04	0.025	4

		(10kHz)						
		Band III (100kHz)	30	1000	878.871	-64.61	0.346	4
		Band IV (1MHz)	1000	4000	3212.88	-74.13	0.039	4
	422.1625	Band I (10kHz)	0.009	0.15	0.0091163	-75.78	0.026	4
		Band II (10kHz)	0.15	30	22.5338	-75.58	0.028	4
		Band III (100kHz)	30	1000	961.952	-64.81	0.330	4
		Band IV (1MHz)	1000	4000	2672.13	-71.20	0.076	4
	422.3	Band I (10kHz)	0.009	0.15	0.0091022	-74.01	0.040	4
		Band II (10kHz)	0.15	30	23.1054	-75.77	0.026	4
		Band III (100kHz)	30	1000	947.256	-64.58	0.348	4
		Band IV (1MHz)	1000	4000	3402.33	-74.03	0.040	4

Note:

Band I: 9kHz ~150kHz

Band II: 150kHz ~30MHz

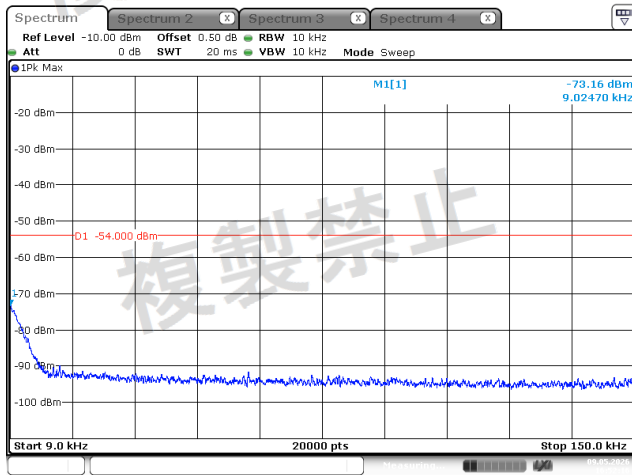
Band III: 30MHz ~1000MHz

Band IV: 1000MHz ~4000MHz

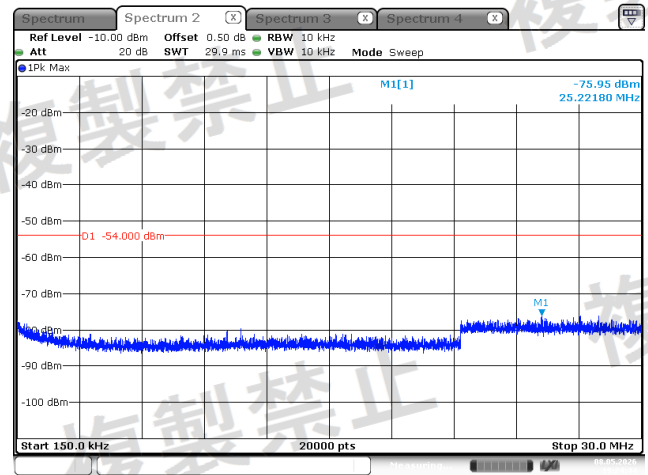
Please refer to the plots.

Normal Voltage:

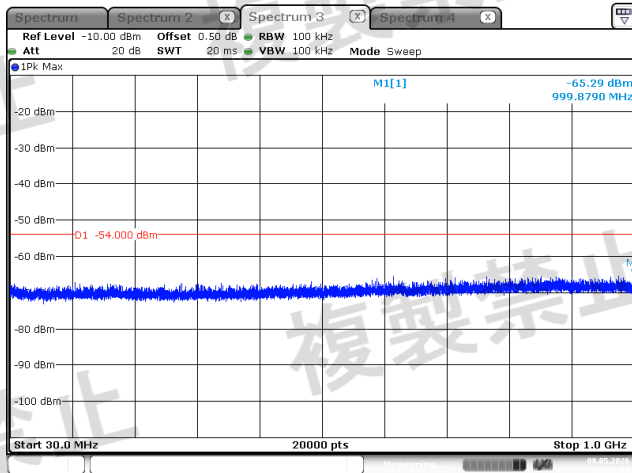
Low Channel



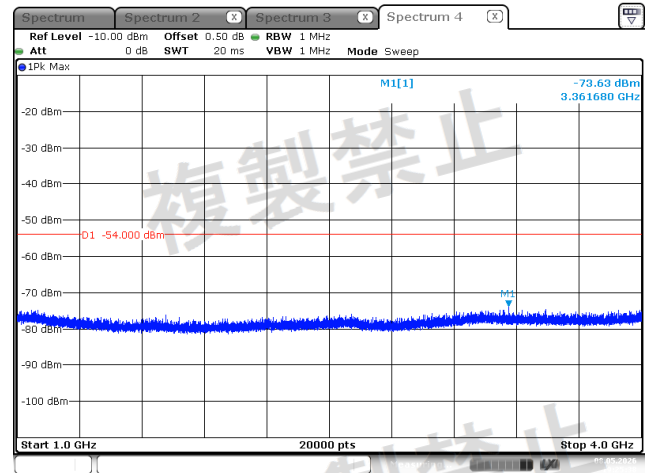
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Date: 9.MAY.2026 16:52:16



ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 8.MAY.2026 19:24:44

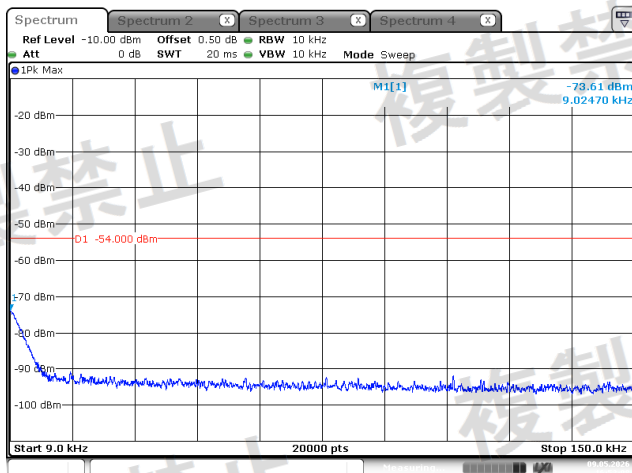


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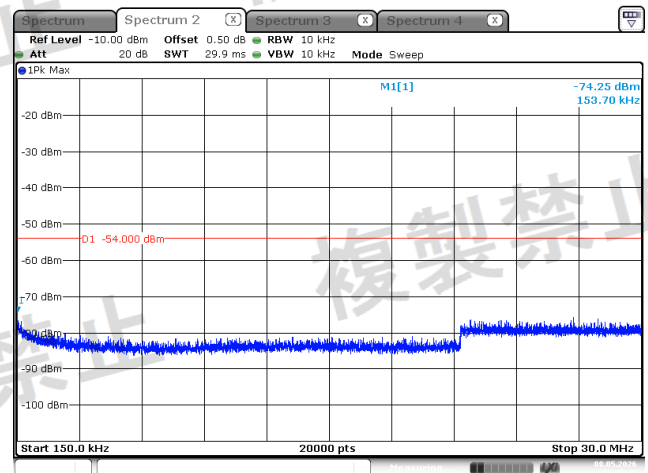


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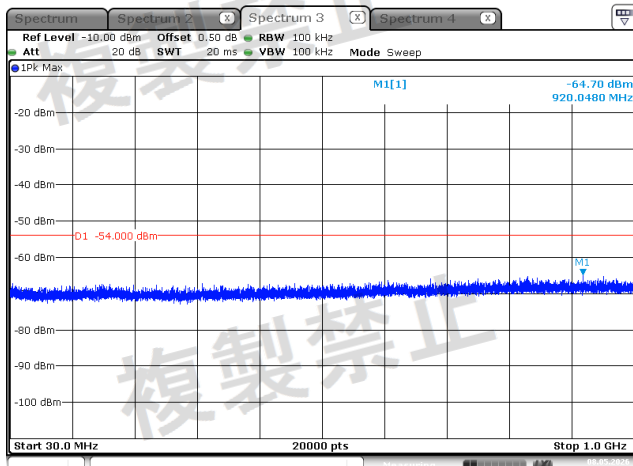
Middle Channel



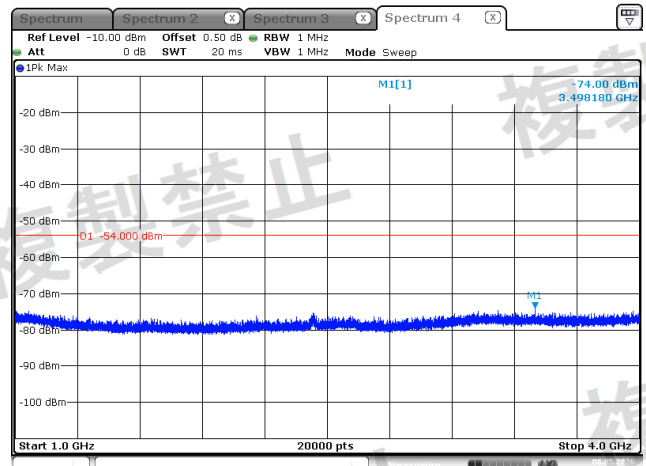
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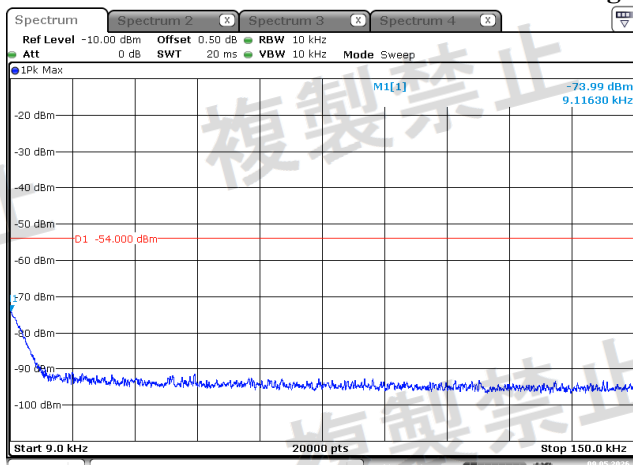


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Date: 8.MAY.2026 19:27:13

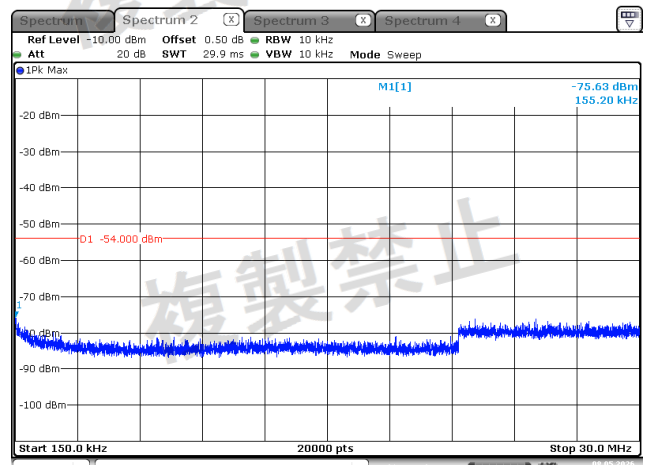


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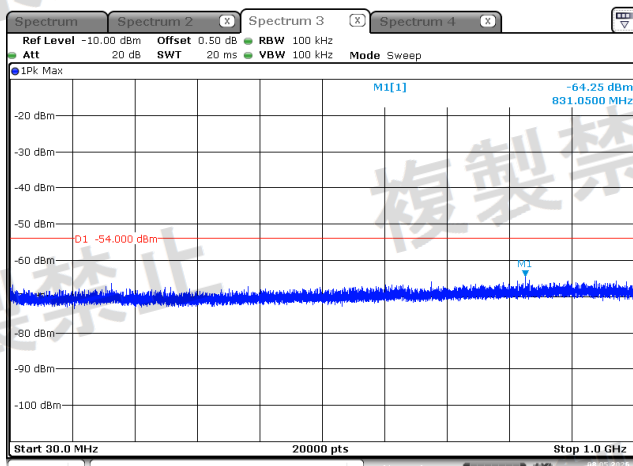
High Channel



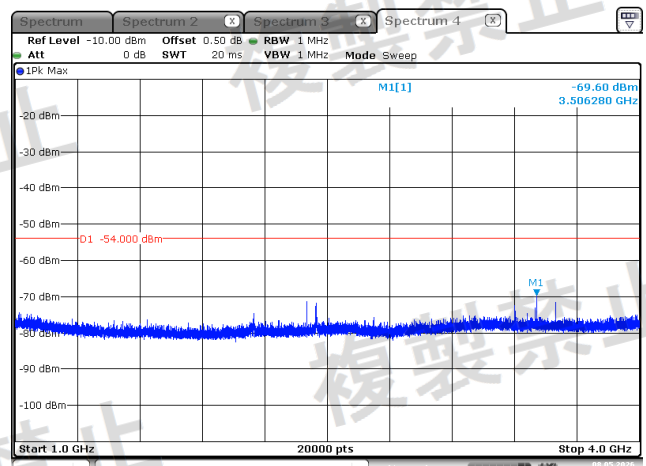
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Date: 9.MAY.2026 16:54:06



ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 8.MAY.2026 19:28:51



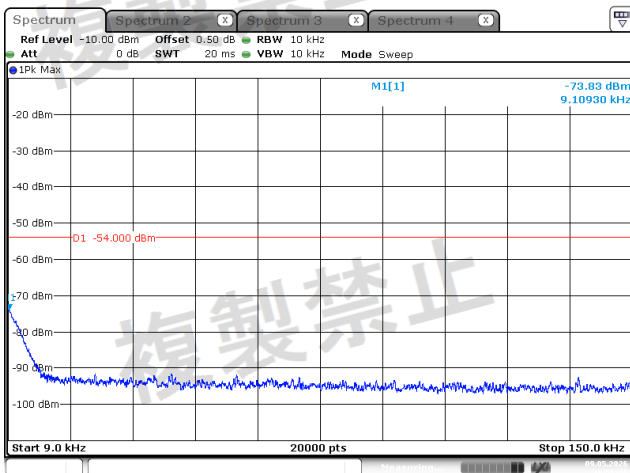
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Date: 8.MAY.2026 19:29:15



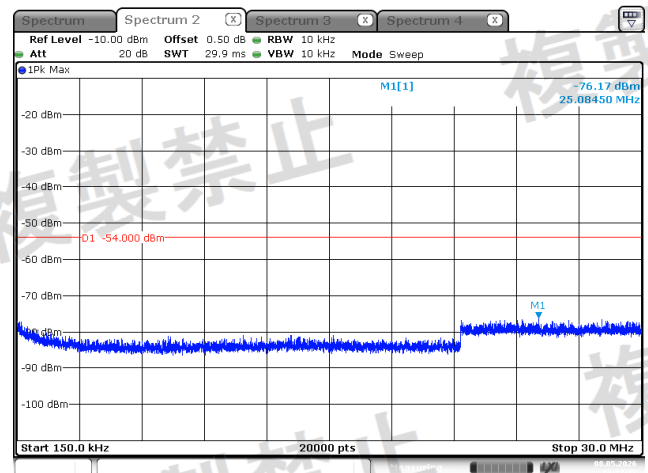
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Low Voltage:

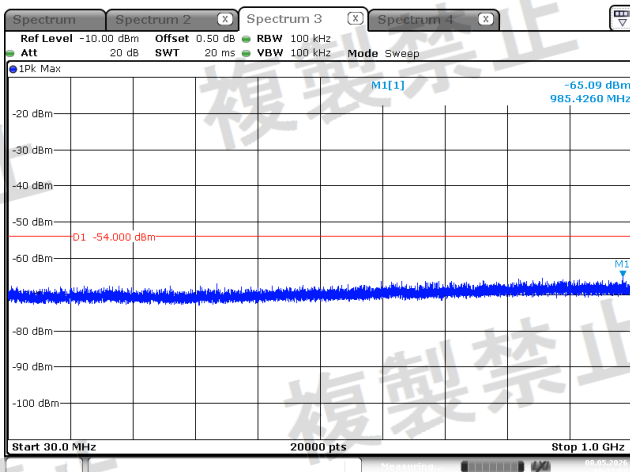
Low Channel



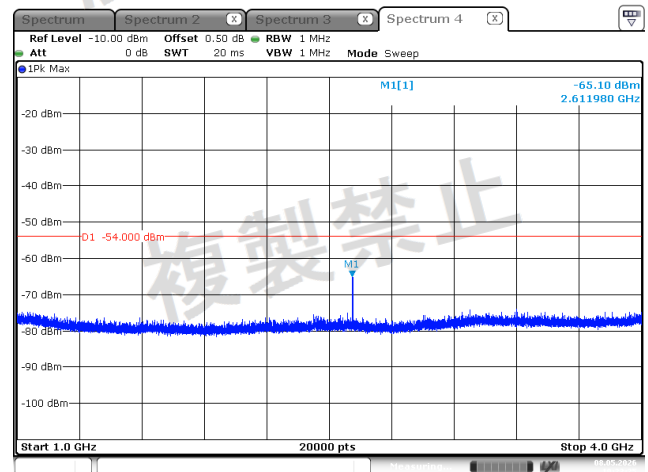
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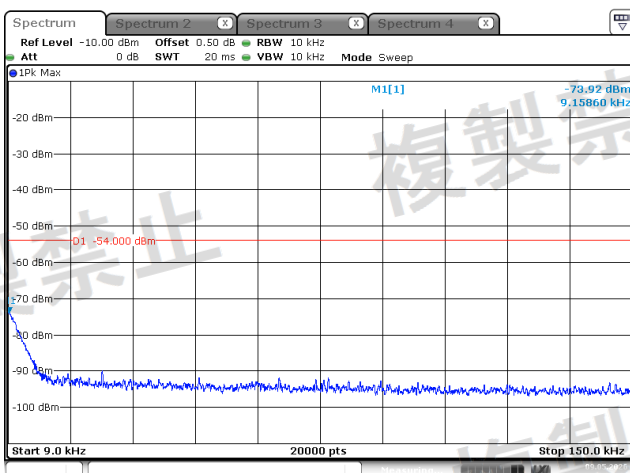


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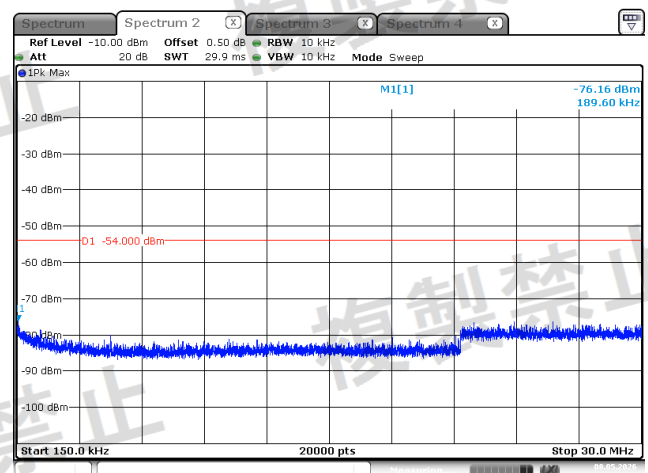


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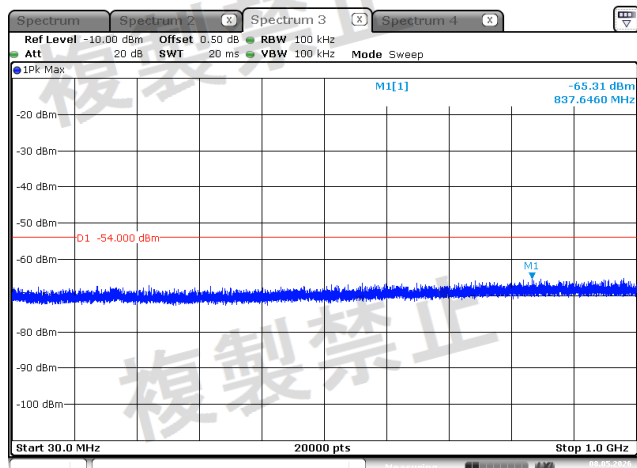
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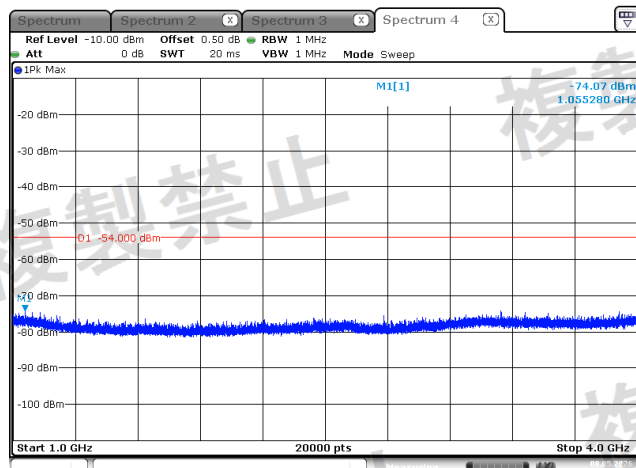
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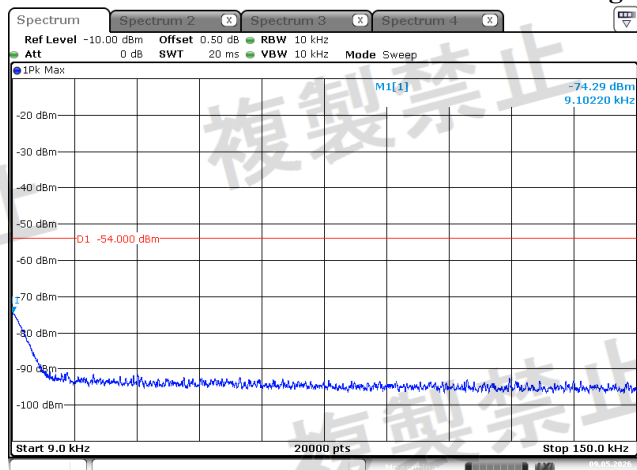


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Date: 8.MAY.2026 19:21:22

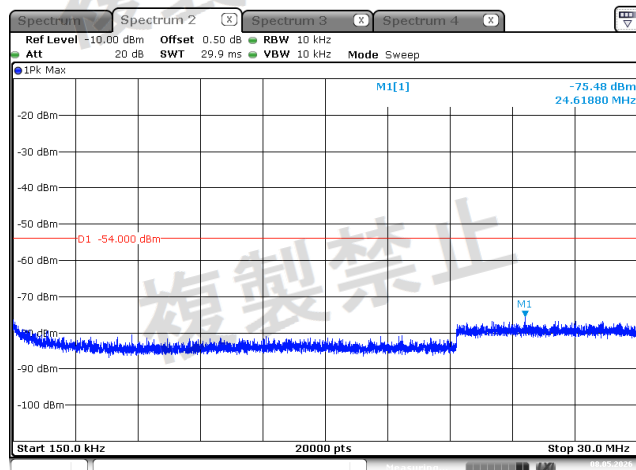


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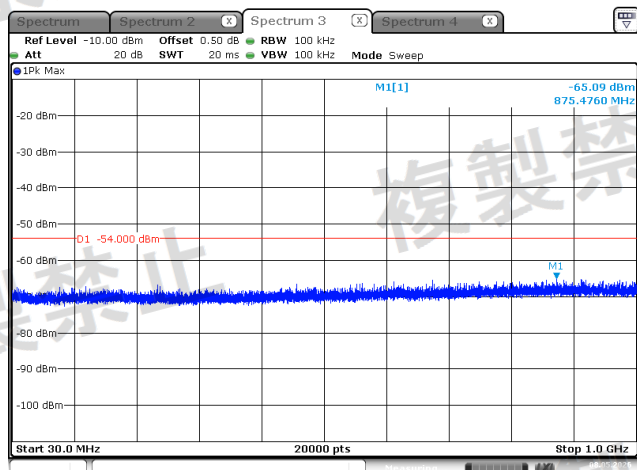
High Channel



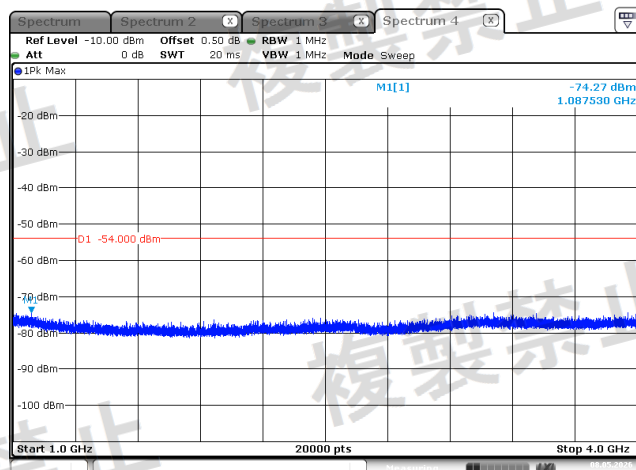
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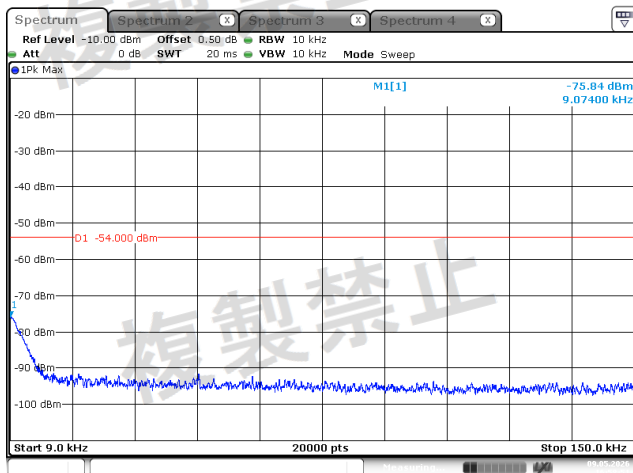
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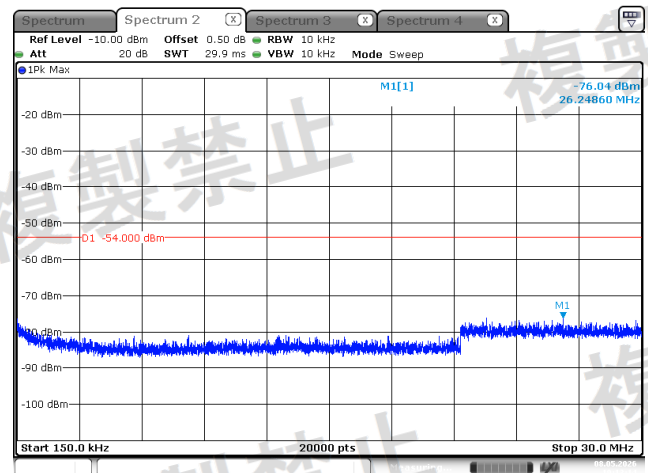
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High Voltage:

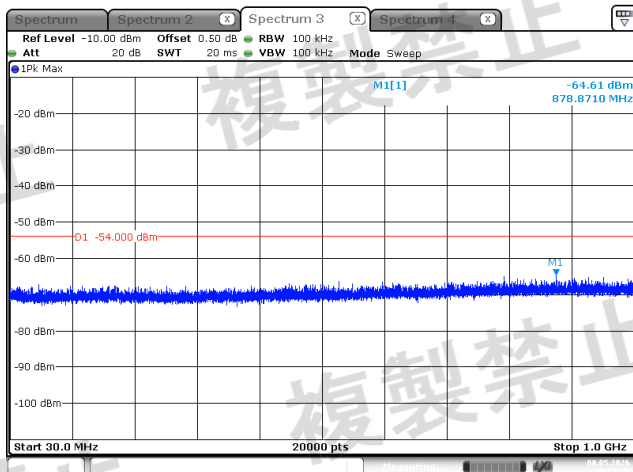
Low Channel



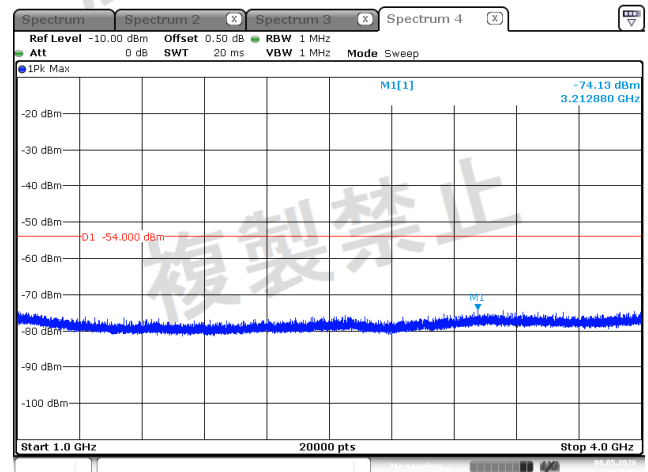
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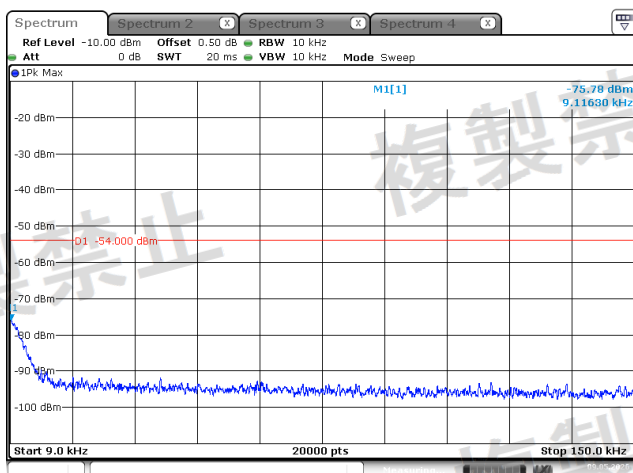


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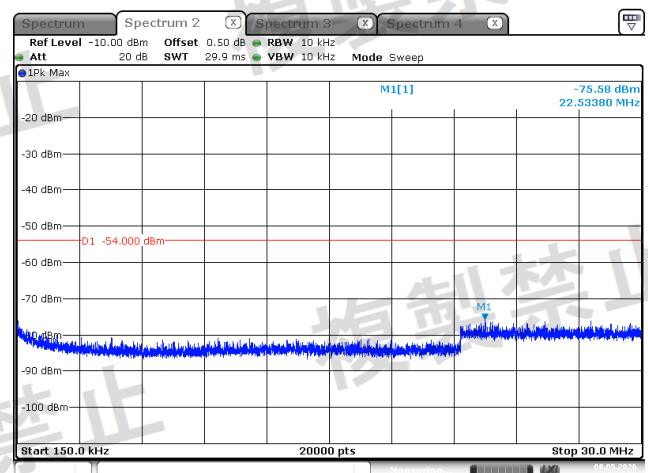


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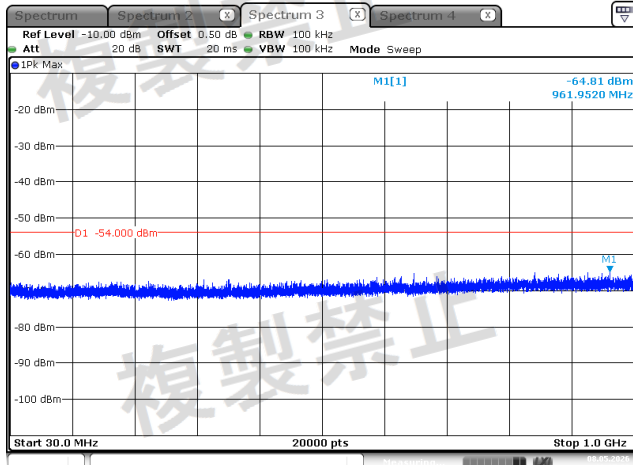
Middle Channel



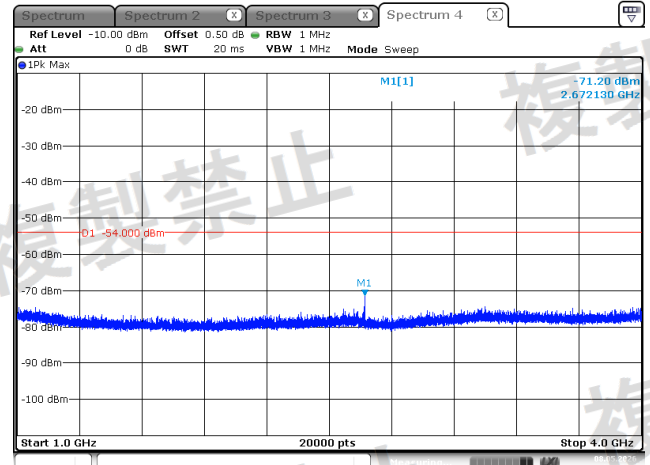
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Date: 8.MAY.2026 19:15:06

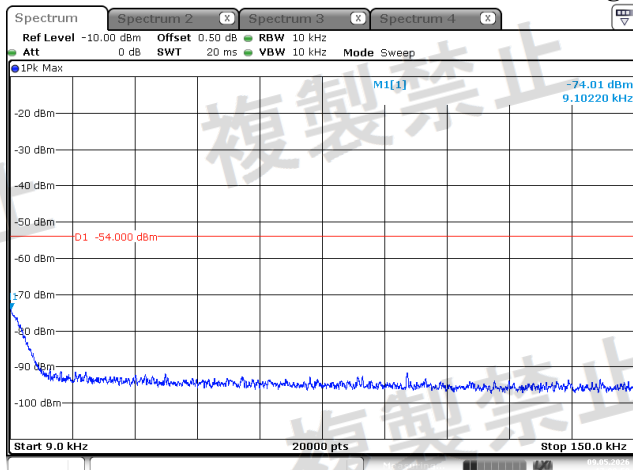


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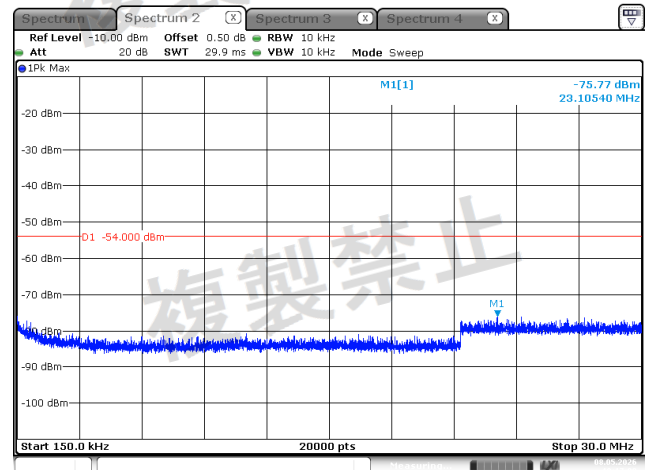


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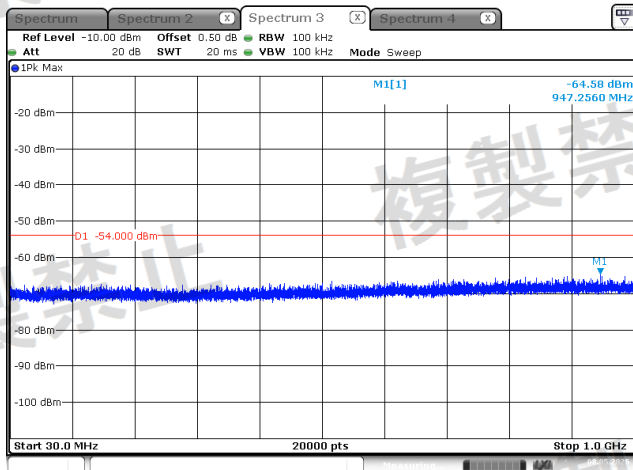
High Channel



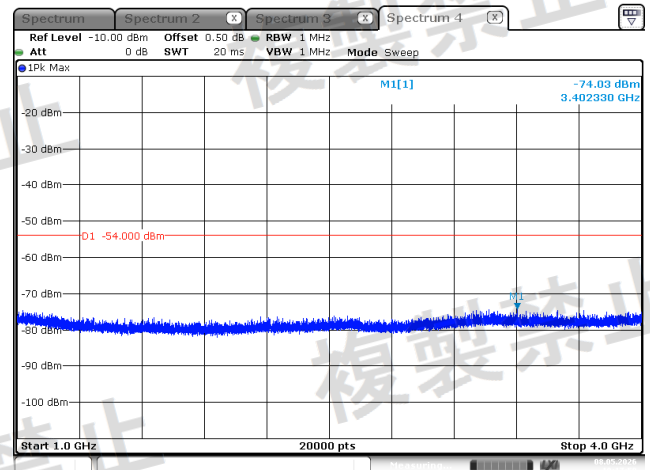
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Date: 9.MAY.2026 17:00:59



ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 8.MAY.2026 19:17:10



ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 8.MAY.2026 19:17:37



ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 8.MAY.2026 19:17:59

6 - ADJACENT CHANNEL LEAKAGE POWER

Limit

-40 dBc:

± 2 kHz band of the frequency which separated 6.25kHz from Cf, or

± 4.25 kHz band of the frequency which separated 12.5kHz from Cf

Test Procedure

1. The SS sends continuously up power control commands to the UE until the UE transmitter power reaches maximum level.
2. Measure the RRC filtered mean power.
3. Measure the RRC filtered mean power of the first adjacent channels and the second adjacent channels.
4. Calculate the ratio of the power between the values measured in 2) and 3) above.

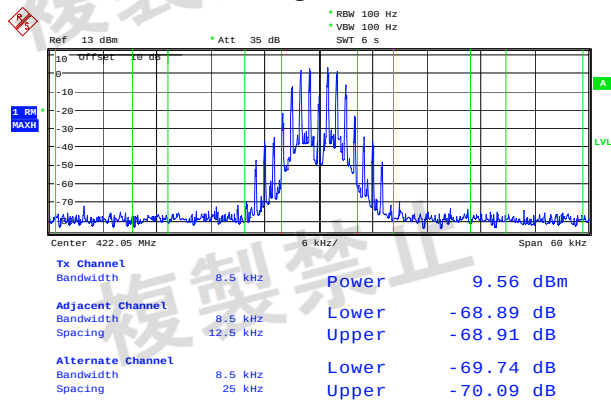
Test Data

Test Result: Compliant

Test Voltage(V)	Test frequency (MHz)	Lower (dBc)	Upper (dBc)	Limit (dBc)
V_{low}	422.05	-68.89	-68.93	≤ -40
	422.1625	-68.89	-68.84	
	422.3	-68.73	-68.62	
V_{nor}	422.05	-68.89	-68.91	
	422.1625	-68.54	-69.38	
	422.3	-68.58	-68.43	
V_{high}	422.05	-68.83	-69.78	
	422.1625	-69.28	-69.05	
	422.3	-68.91	-68.83	

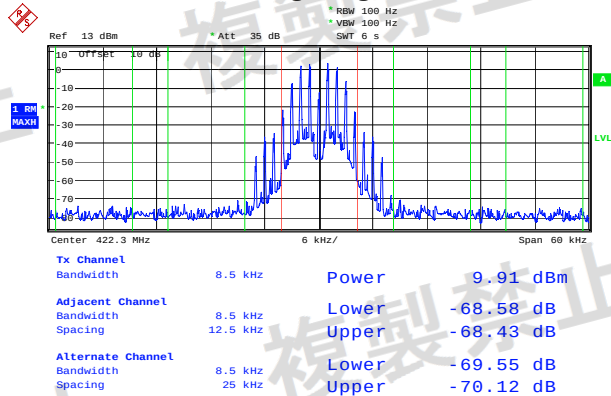
Please refer to the plots.

Normal Voltage, Low Channel



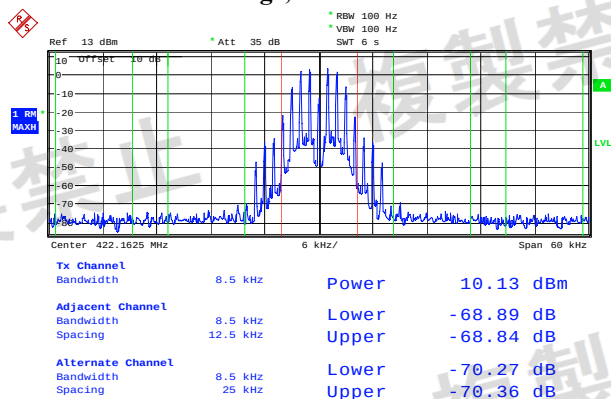
Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 30.APR.2026 13:07:56

Normal Voltage, High Channel



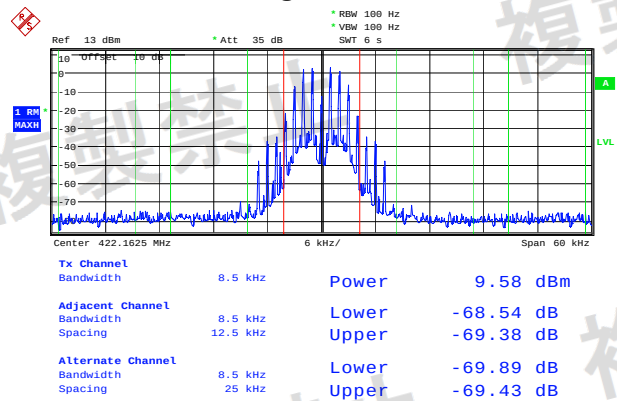
Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 30.APR.2026 13:09:07

Low Voltage, Middle Channel



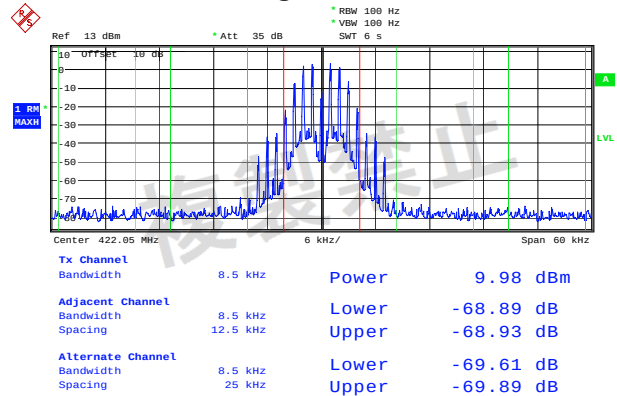
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Normal Voltage, Middle Channel



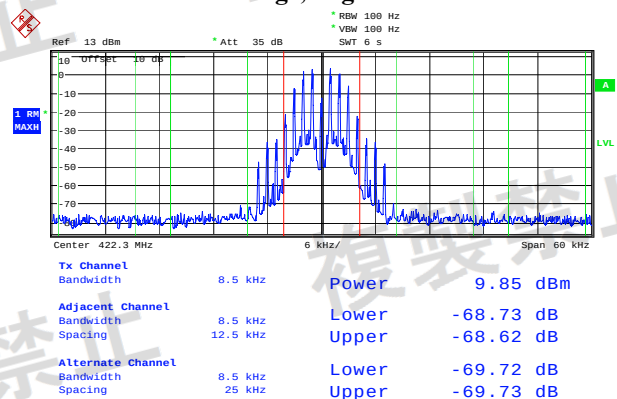
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Date: 30.APR.2026 13:04:56

Low Voltage, Low Channel



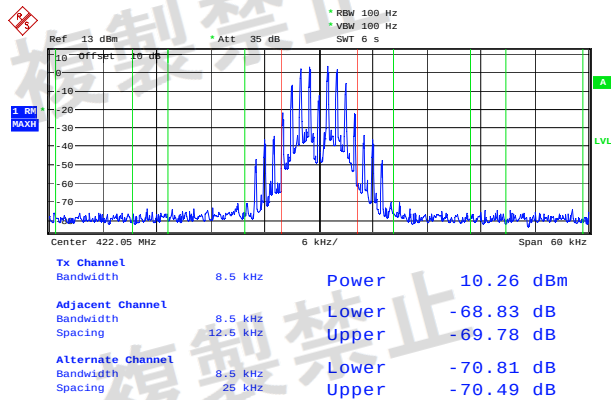
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Date: 30.APR.2026 13:15:39

Low Voltage, High Channel

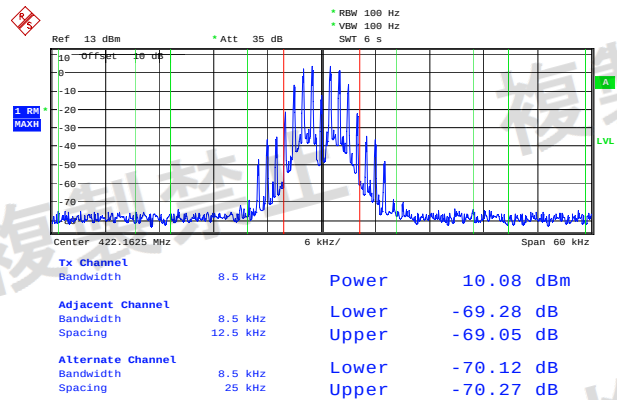


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Date: 30.APR.2026 13:13:50

High Voltage, Low Channel



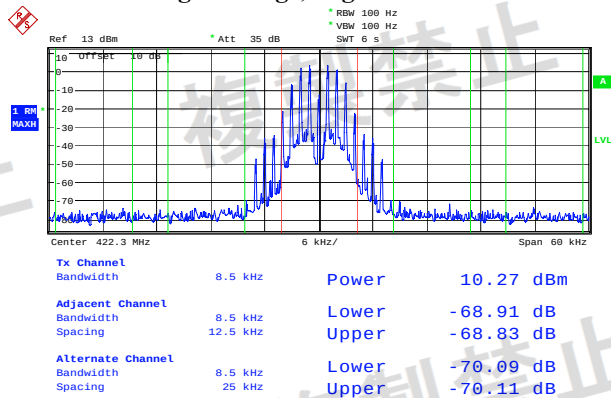
High Voltage, Middle Channel



Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 30.APR.2026 13:22:25

Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 30.APR.2026 13:20:38

High Voltage, High Channel



Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 30.APR.2026 13:25:17

7 - HOUSING REQUIREMENTS

Limit

The radio equipment shall be housed in a single cabinet, and the cabinet shall not be capable of being opened easily. ("Power source", "Control device", "Operating state display device", "Volume control device", "Handset", "Frequency switching device", "Transmission and reception switching device" and "Antenna (using 413.7~414.14375.454.05-45419375MHz)" are excluded.)

Confirmation Result

Compliant, the RF part was housed in a single cabinet, it can't be opened easily. Please refer the EUT photo.

9 - TRANSMISSION TIME RESTRICTION

Limit

Transmission ON: within 30sec. (Frequency Control Channel: within 0.5sec.)

Transmission OFF: over 2sec.

Radio equipment that does not require a transmission Time Restriction device.

(*1) It shall have a function that automatically limits the communication time to within 3 minutes and prevents further communication until 2 seconds have elapsed after the end of the communication.

(*2) Antenna power is 1mW or less, and using 413.7-414.14375MHz, 421.575-421.8MHz, 421.578125-421.803125MHz, 440.025-440.25MHz, 440.028125-440.253125MHz and 454.05-454.19375MHz.

Test Procedure

Conditions of Application Equipment (EUT):

Set the application equipment (EUT) to the measurement frequency.

The modulation state shall be “continuous (burst) transmission mode”. If impossible, it shall be “continuous frequency-hopping mode”.

Spectrum Analyzer Conditions:

SPAN: ZERO SPAN

RBW: 100kHz

VBW: 100kHz

Sweep Time: 480s

Sweep Mode: Single Sweep

Detection Mode: Peak

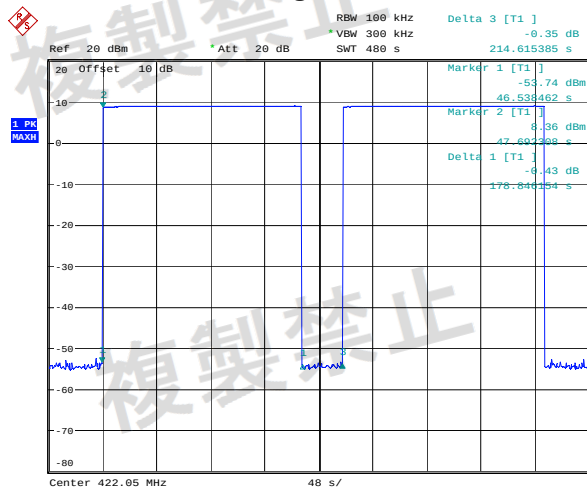
Test Data

Test Result: Compliant

Test Voltage(V)	Test frequency (MHz)	Transmission ON (s)	Limit (s)	Transmission OFF (s)	Limit (s)
V _{low}	422.05	178.462	≤180	36.154	≥2
	422.1625	178.462		36.154	
	422.3	178.461		36.154	
V _{nor}	422.05	178.846		35.769	
	422.1625	179.231		35.405	
	422.3	179.231		33.846	
V _{high}	422.05	179.385		36.923	
	422.1625	179.385		34.615	
	422.3	177.692		35.385	

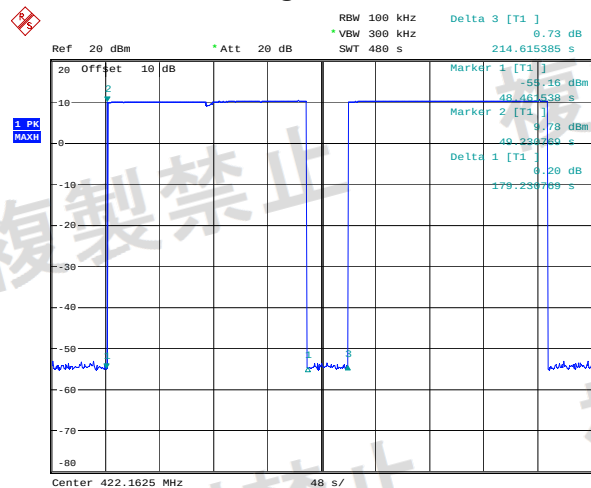
Note: This equipment not require a transmission Time Restriction, because it has a function that automatically limits the communication time to within 3 minutes and prevents further communication until 2 seconds have elapsed after the end of the communication. So the limit of Transmission ON is 180s and Transmission OFF is 2s.

Normal Voltage, Low Channel



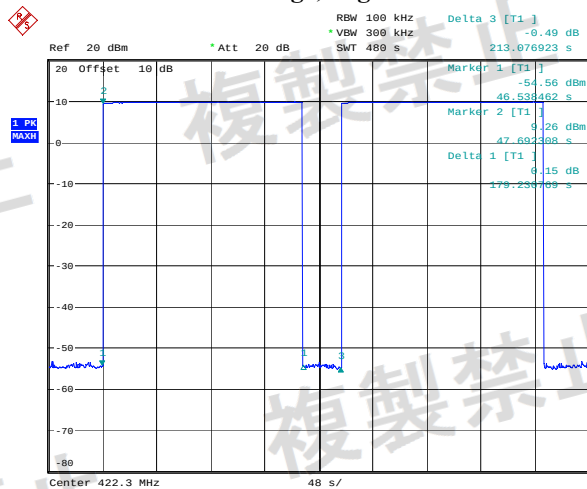
Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 22.APR.2026 16:37:51

Normal Voltage, Middle Channel



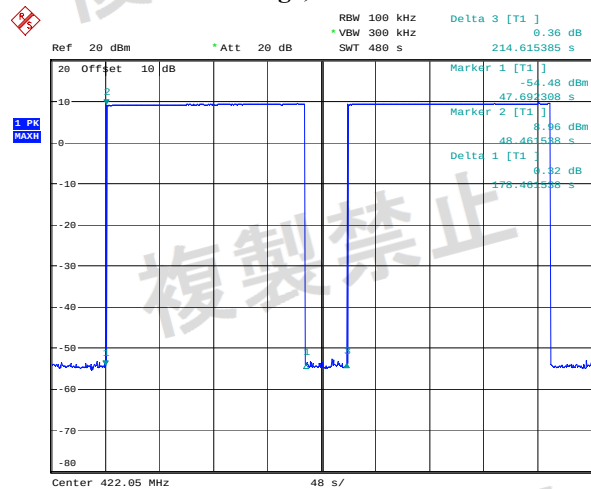
Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
Date: 22.APR.2026 15:31:50

Normal Voltage, High Channel



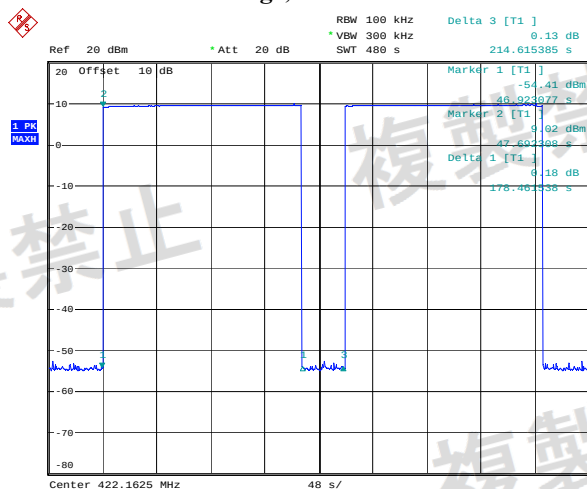
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Date: 22.APR.2026 16:10:18

Low Voltage, Low Channel



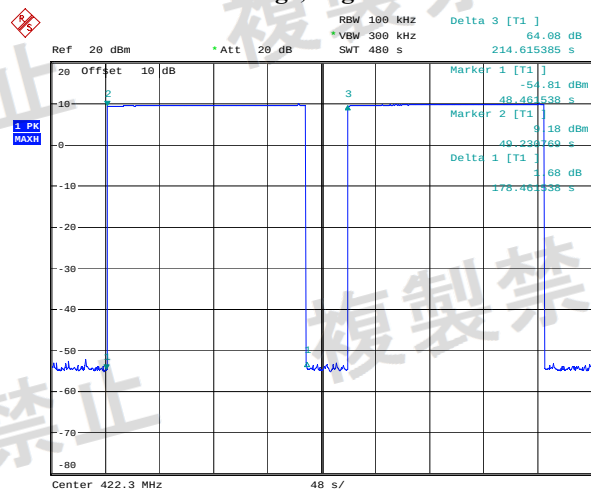
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Date: 23.APR.2026 08:43:24

Low Voltage, Middle Channel



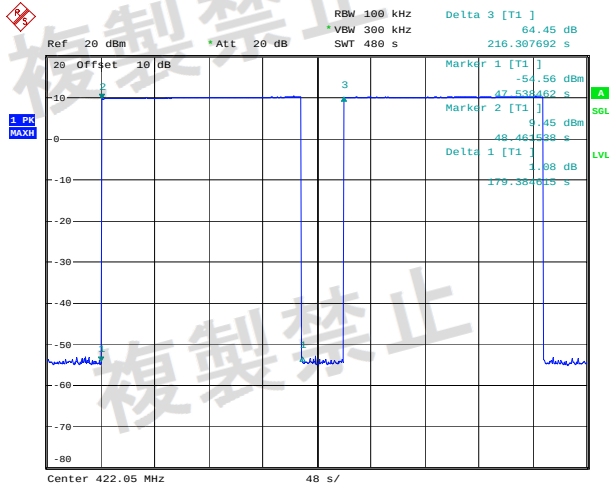
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Date: 23.APR.2026 08:58:46

Low Voltage, High Channel



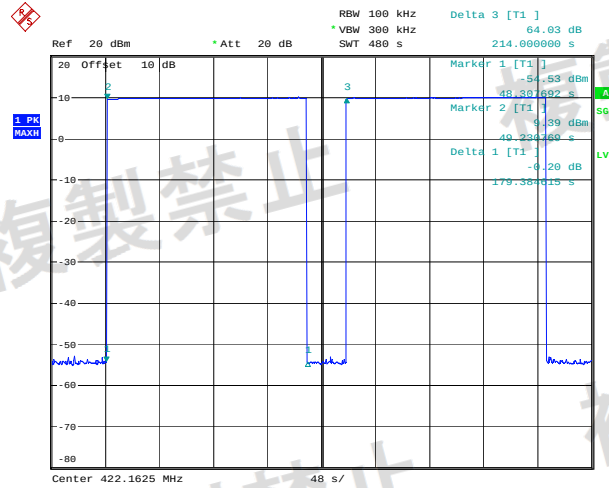
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Date: 23.APR.2026 09:11:57

High Voltage, Low Channel



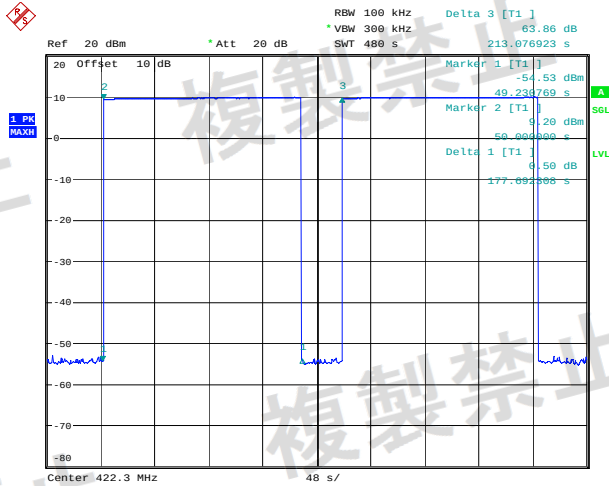
Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
 Date: 23.APR.2026 10:09:20

High Voltage, Middle Channel



Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
 Date: 23.APR.2026 09:42:35

High Voltage, High Channel



Comment: ProjectNo.:2602S01344E-RF Tester:Colin Yang
 Date: 23.APR.2026 09:32:58

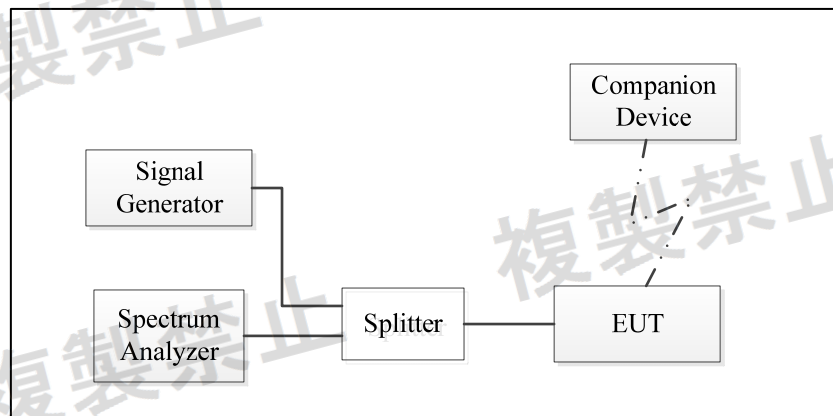
10 – CARREIR SENSING FUNCTION

Limit

EUT stop RF transmission signal after carrier inject to EUT

Test Procedure

❖ Measurement System Diagram



❖ Conditions of Application Equipment (EUT)

- The EUT state shall be “normal mode link with the Companion Device (base)”.

Companion Device:

❖ Test Procedure

1. SG adjusted the frequency as same as the EUT transmitted signal and emitted interference signal from SG.
2. Turn off the RF signal of the SG.
3. EUT have transmitted the maximum modulation signal and fixed channelize.
4. Setting of SA: RBW/VBW=1MHz/1MHz, Span=50MHz, Sweep time=auto, Sweep mode=continuous, Detect mode=positive peak
5. SG RF signal on.
6. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous transmitted signal.

Test Data

Test Result: Good.

11 - INTERFERENCE PREVENTION FUNCTION

Requirement

The EUT shall have the interference prevention capability to transmit or to receive the identification automatically, so that sender and receiver shall exclude other equipment.

Test Procedure

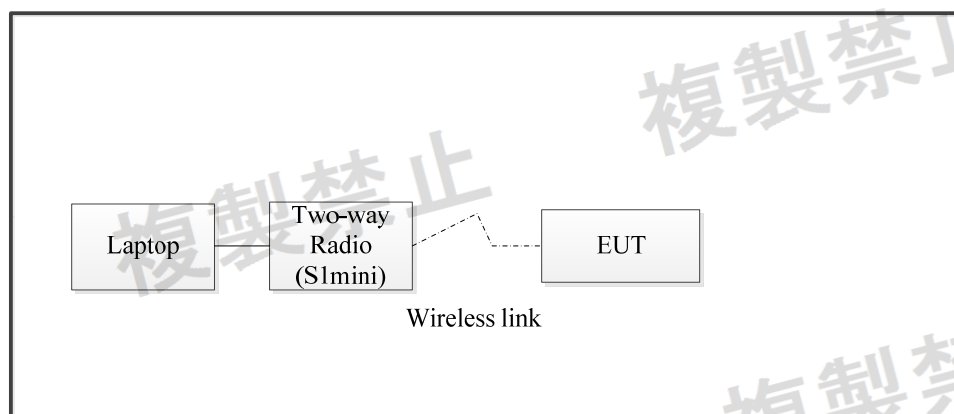
In the case that the EUT has the function of automatically transmitting the identification code:

1. Transmit the predetermined identification codes from EUT
2. Check the transmitted identification codes with the demodulator.

In the case of receiving the identification codes:

1. Transmit the predetermined identification codes from the counterpart.
2. Check if communication is normal
3. Transmit the signal other than predetermined ID codes from the counterpart.
4. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

Test Setup Block Diagram



Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Hytera	Two-way Radio (S1mini)	HYT-S10	3KEN-3
DELL	Laptop	E6410ATG	EMZBPC21103005

Note: The Laptop with software “cps.exe” to check the ID code from the EUT.

Test Data

Test Result: Compliant

EXHIBIT A – EUT PHOTOGRAPHS

Please refer to the attachment 2602S01344E-RF-EXP EUT External photos and 2602S01344E-RF-INP EUT Internal photos.

EXHIBIT B – TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2602S01344E-RF-07-TSP Test Setup Photos.

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