

TEST REPORT

Applicant Name: Fujian Belfone Communications Technology Co., Ltd.
Address: A15 Huaqiao Economic Development Zone, Shuangyang,
Luojiang, Quanzhou, Fujian, China
Report Number: 2601T36943E-RF-00B
FCC ID: 2AARFBFBP86001

Test Standard (s)

FCC PART 90

Sample Description

Product Type: DIGITAL TRANSCEIVER
Model No.: BP860Ex
Multiple Model(s) No.: N/A
Trade Mark: **Belfone**
Date Received: 2026/05/11
Report Date: 2026/09/20

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Cheeb Huang

Cheeb Huang
RF Engineer

Approved By:

Nancy Wang

Nancy Wang
RF Supervisor

Note: The information marked * is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2601T36943E-RF-00B	Original Report	2026/09/20

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	400-480MHz
Rated Transmit Power	3.5 Watts
Channel separation	12.5kHz
Modulation Technique	4FSK
Antenna Specification [#]	2.0dBi (provided by the applicant)
Voltage Range	DC 7.4V from battery/DC 12V from Adapter
Sample serial number	3LIA-1 for RF Conducted Test 3LIA-2 for Radiated Emissions (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Model: RSF-DY077B-1201500CN Input: 100-240V~50/60Hz 0.5A Output: 12V=1.5A

Objective

This test report is in accordance with Part 2, and Part 90 of the Federal Communication Commissions rules.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of federal Regulations Title 47 Part 2, Sub-part J as well as the following individual parts:

Part 90 – Private Land Mobile Radio Service

Applicable Standards: TIA 603-E, ANSI C63.26-2015.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		52.29kHz(k=1.96, 95% level of confidence)
RF Frequency		81.235Hz(k=1.96, 95% level of confidence)
RF output power, conducted		1.57dB(k=1.96, 95% level of confidence)
Conducted Spurious Emission		2.48dB(k=1.96, 95% level of confidence)
Audio Frequency Response		0.1dB
Low Pass Filter Response		1.2dB
Modulation Limiting		1%
Radiated Emissions	0.009MHz~30MHz	3.66dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Horizontal)	5.10dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Vertical)	6.28dB(k=2, 95% level of confidence)
	1GHz - 6GHz	6.18dB(k=2, 95% level of confidence)
	6GHz - 18GHz	6.62dB(k=2, 95% level of confidence)
	18GHz - 40GHz	6.66dB(k=2, 95% level of confidence)
Temperature		$\pm 0.4^{\circ}\text{C}$
Humidity		$\pm 2\%$
Supply voltages		DC $\pm 0.4\%$; AC $\pm 1\%$

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, test firm registration No.: 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a test mode which has been done in the factory.

Test channel information

Test Mode	Test Frequency (MHz)
12.5kHz	400.0125
	440.0125
	479.9875

Equipment Modifications

No modification was made to the EUT.

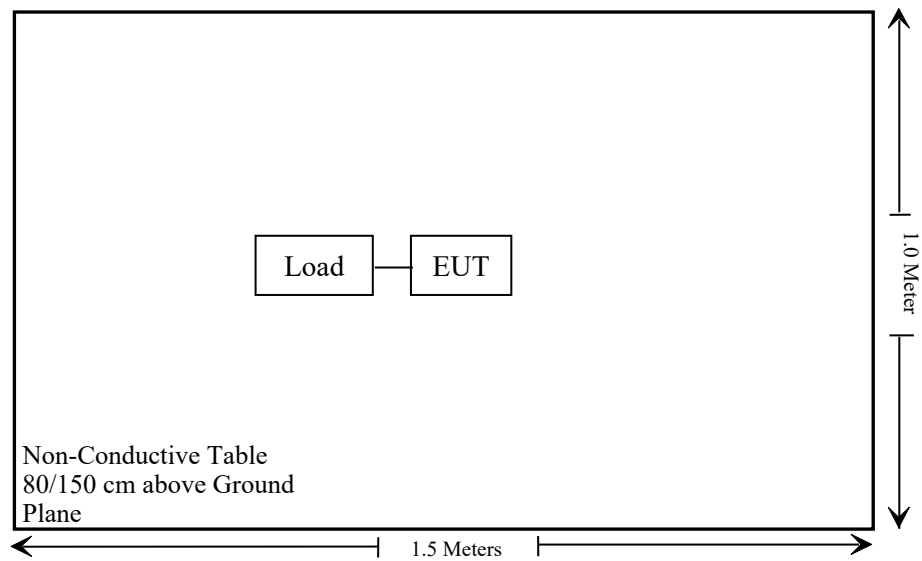
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	Load	Unknown	Unknown

External I/O Cable

Cable Description	Length (m)	From Port	To
Un-shielding Detachable RF Cable 1	0.3	EUT	Load
Un-shielding Detachable RF Cable 2	1.2	EUT	Load

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§2.1093	RF EXPOSURE	Compliant
§2.1046; §90.205	RF Output Power	Compliant
§2.1047; §90.207	Modulation Characteristic	Not Applicable
§2.1049; §90.209; §90.210	Occupied Bandwidth & Emission Mask	Compliant
§2.1051; §90.210	Spurious Emission at Antenna Terminal	Compliant
§2.1053; §90.210	Spurious Radiated Emissions	Compliant
§2.1055; §90.213	Frequency Stability	Compliant
§90.214	Transient Frequency Behavior	Compliant

Not Applicable: The prototype only supports digital signals.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2025/09/01	2026/08/31
Sonoma instrument	Pre-amplifier	310 N	186238	2025/09/08	2026/09/07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Chamber A Cable	Cable A1	Cable A1	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A2	Cable A2	2025/09/08	2026/09/07
TDK	Chamber	Chamber A	2#	2023/07/12	2026/07/11
Agilent	Signal Generator	N5183A	MY50140588	2025/09/18	2026/09/17
COM-POWER	Dipole Antenna	3121C	9209-860	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2025/09/01	2026/08/31
A.H.System	Preamplifier	PAM-0118P	489	2025/09/08	2026/09/07
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
Unknown	Chamber B Cable	Cable B1	Cable B1	2025/09/08	2026/09/07
Unknown	Chamber B Cable	Cable B2	Cable B2	2025/09/08	2026/09/07
Unknown	Chamber B Cable	Cable B3	Cable B3	2025/09/08	2026/09/07
JD	Filter Switch Unit	DT7220FSU	DS79906	2025/08/12	2026/08/11
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2025/08/12	2026/08/11
TDK	Chamber	Chamber B	1#	2023/07/14	2026/07/13
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101942	2025/09/01	2026/08/31
Rohde & Schwarz	Spectrum Analyzer	FSV40	101942	2026/08/26	2027/08/25
BACL	Temp&Humi Test Chamber	BTH-150-40	30145	2025/09/11	2026/09/10
instek	DC Power Supply	GPS-3030DD	EM832096	NCR	NCR
Fluke	Digital Multimeter	287	19000011	2026/03/16	2027/03/15
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2025/09/22	2026/09/21
Unknown	RF Cable	Cable RF1	Cable RF1	2025/09/17	2026/09/16
Unknown	RF Cable	Cable RF2	Cable RF2	2025/09/17	2026/09/16
Unknown	30dB Attenuator	53-30-43	PG633	2025/06/26	2026/06/25
Unknown	30dB Attenuator	53-30-43	PG633	2026/06/24	2027/06/23
narda	Power divider	4324-4	F-03-EM247	2025/06/26	2026/06/25

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

FCC 1.1307 & §2.1093 - RF EXPOSURE

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliance, please refer to the SAR report: 2601T36943E-SA.

FCC §2.1046 & §90.205 - RF OUTPUT POWER

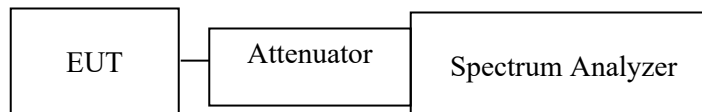
Applicable Standard

FCC §2.1046 and §90.205

Test Procedure

According to ANSI C63.26-2015 section 5.2.3.3

Conducted RF Output Power:



Note: The path loss from EUT to Spectrum Analyzer has included in the result.

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

Spectrum Analyzer Setting:

R B/W	Video B/W
100 kHz	300 kHz

Test Data

Environmental Conditions

Temperature:	24.7 °C
Relative Humidity:	51 %
ATM Pressure:	100.8 kPa

The testing was performed by Yuna Mo on 2026-06-06.

Test Mode: Transmitting

Test Result: Pass. Please refer to following table and plots.

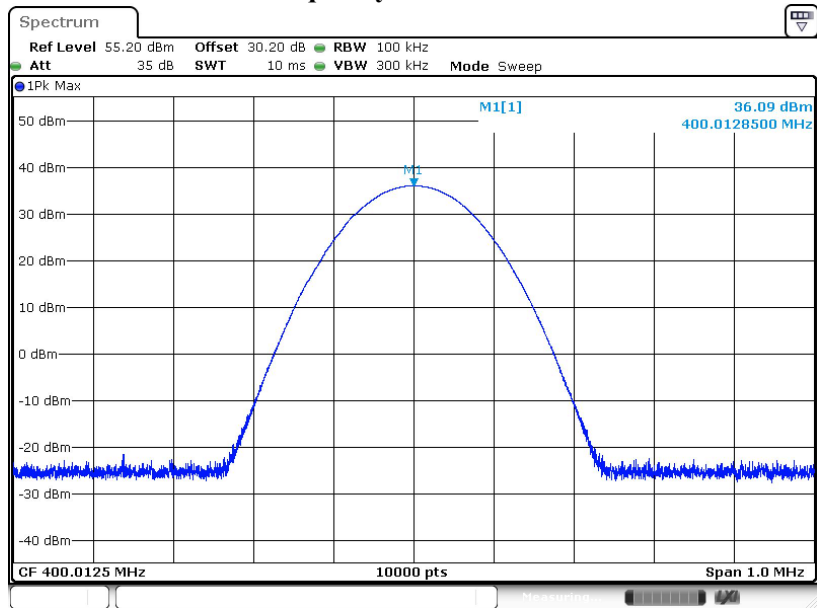
Rated Output Power

Power Level	3.5	W
	35.44	dBm

Modulation Mode	Channel Separation	f_c	Reading (dBm)
		MHz	
4FSK	12.5kHz	400.0125	36.09
		440.0125	35.89
		479.9875	35.67

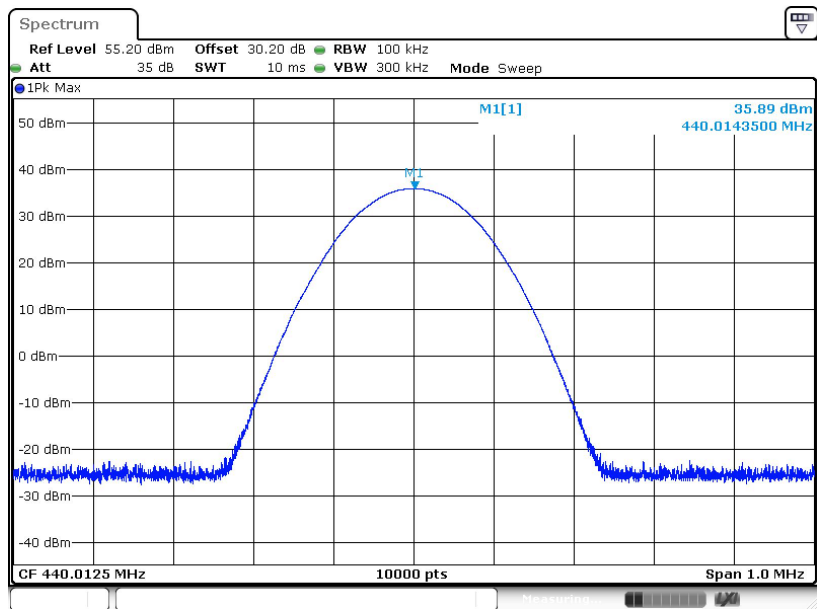
4FSK, 12.5kHz

Frequency 400.0125MHz



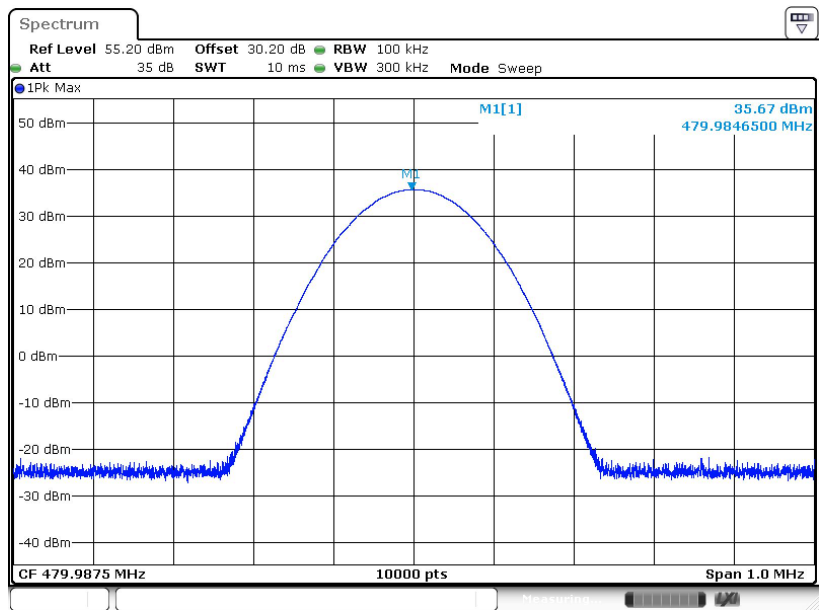
ProjectNo.:2601T36943E-RF Tester:Yuna Mo
Date: 6.JUN.2026 14:57:02

Frequency 440.0125MHz



ProjectNo.:2601T36943E-RF Tester:Yuna Mo
Date: 6.JUN.2026 14:55:03

Frequency 479.9875 MHz



ProjectNo.:2601T36943E-RF Tester:Yuna Mo
Date: 6.JUN.2026 14:52:45

FCC §2.1049 & §90.209 & §90.210 - OCCUPIED BANDWIDTH & EMISSION MASK

Applicable Standard

FCC §2.1049, §90.209 and §90.210

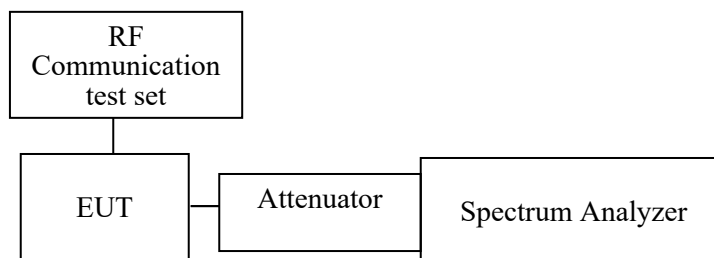
Emission Mask D - 12.5 kHz channel bandwidth equipment. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- 1) For any frequency removed from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 , 0dB.
- 2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.626 kHz but no more than 12.5 kHz, at least 7.27 ($f_d - 2.88$ kHz) dB.
- 3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz at least: At least $50 + 10 \log (P)$ dB or 70 dB, whichever is the lesser attenuation.

Test Procedure

According to ANSI C63.26-2015 section 5.4

Analog mode:



Note: The path loss from EUT to Spectrum Analyzer has included in the result.

- a) Connect the equipment as illustrated.
- b) Adjust the spectrum analyzer for the following settings:
 - 1) Resolution Bandwidth: 100Hz for 12.5kHz Channel spacing, 200Hz for 25kHz Channel spacing .
 - 2) Video Bandwidth at least 10 times the resolution bandwidth.
 - 3) Sweep Speed slow enough to maintain measurement calibration.
 - 4) Detector Mode = Positive Peak.
 - 5) Span that will allow proper viewing of the test bandwidth.
- c) Set the center frequency of the spectrum analyzer to the assigned transmitter frequency. Key the transmitter, and set the level of the unmodulated carrier to a full scale reference line. This is the 0 dB reference for the measurement.
- d) Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation. The input level shall be established at the frequency of maximum

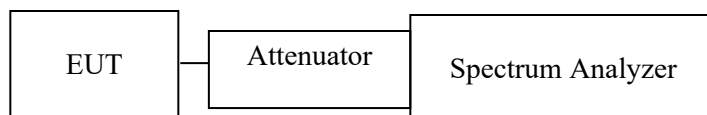
response of the audio modulating circuit. Transmitters employing digital modulation techniques that bypass the limiter and the audio low-pass filter shall be modulated as specified by the manufacturer.

e) Path loss for the measurement included.

f) Measured the 26dB bandwidth, and use the spectrum analyzer Occupied bandwidth function to measurement the 99% Occupied bandwidth, save the plot

g) Record the resulting spectrum analyzer presentation of the emission level with an on-line recording device or in a photograph. It is recommended that the emission limit be drawn on the plotted graph or photograph. The spectrum analyzer presentation is the sideband spectrum

Digital mode:



a) Program and set radio to operate in desire test frequency and digital mode with modulation.

b) Connect the equipment as illustrated.

c) Adjust the spectrum analyzer for the following settings:

- 1) Resolution Bandwidth: 100Hz.
- 2) Video Bandwidth at least 10 times the resolution bandwidth.
- 3) Sweep Speed slow enough to maintain measurement calibration.
- 4) Detector Mode = Positive Peak.
- 5) Span that will allow proper viewing of the test bandwidth.

d) Set the center frequency of the spectrum analyzer to the assigned transmitter frequency. Key the transmitter, and set the level of the unmodulated carrier to a full scale reference line. This is the 0 dB reference for the measurement.

e) Path loss for the measurement included in plot

f) Measured the 26dB bandwidth, and use the spectrum analyzer Occupied bandwidth function to measurement the 99% Occupied bandwidth, save the plot

g) Record the resulting spectrum analyzer presentation of the emission level with an on-line recording device or in a photograph. It is recommended that the emission limit be drawn on the plotted graph or photograph. The spectrum analyzer presentation is the sideband spectrum

Test Data

Environmental Conditions

Temperature:	24.7 °C
Relative Humidity:	51 %
ATM Pressure:	100.8 kPa

The testing was performed by Yuna Mo on 2026-06-06.

Test mode: Transmitting

Test Result: Pass. Please refer to the following tables and plots.

Modulation Mode	Channel Separation	f_c MHz	99% Occupied Bandwidth kHz	26 dB Bandwidth kHz
4FSK	12.5kHz	400.0125	6.535	8.854
		440.0125	6.830	8.214
		479.9875	6.835	9.095

Note: Emission designator is based on calculation instead of measurement.

Emission Designator Per CFR 47 §2.201& §2.202&, $B_n = 2M + 2D$

For Digital Mode (Channel Spacing: 12.5 kHz)

Emission Designator 7K60F1D and 7K60F1E

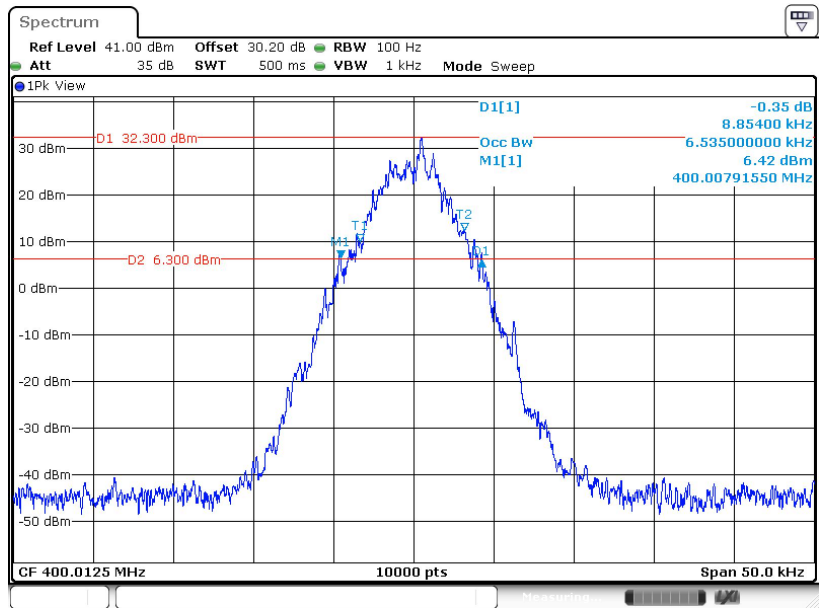
The 99% energy rule (title 47CFR 2.1049) was used for digital mode. It basically states that 99% of the modulation energy falls within X kHz, in this case, 7.60kHz. The emission mask was obtained from 47CFR 90.210(d).

F1D and F1E portion of the designator indicates digital information.

Therefore, the entire designator for 12.5 kHz channel spacing digital mode is 7K60F1D and 7K60F1E.

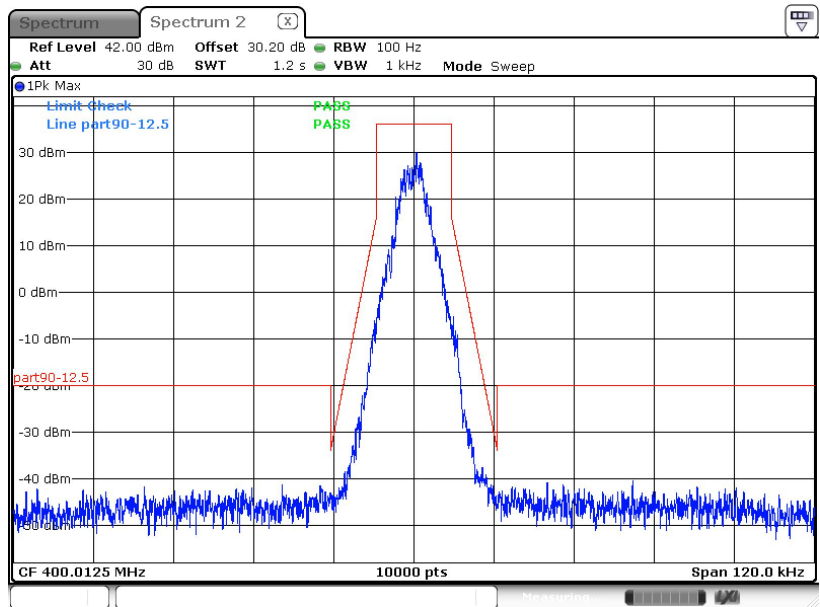
4FSK, 12.5kHz

Frequency 400.0125 MHz: 99% Occupied & 26 dB Bandwidth

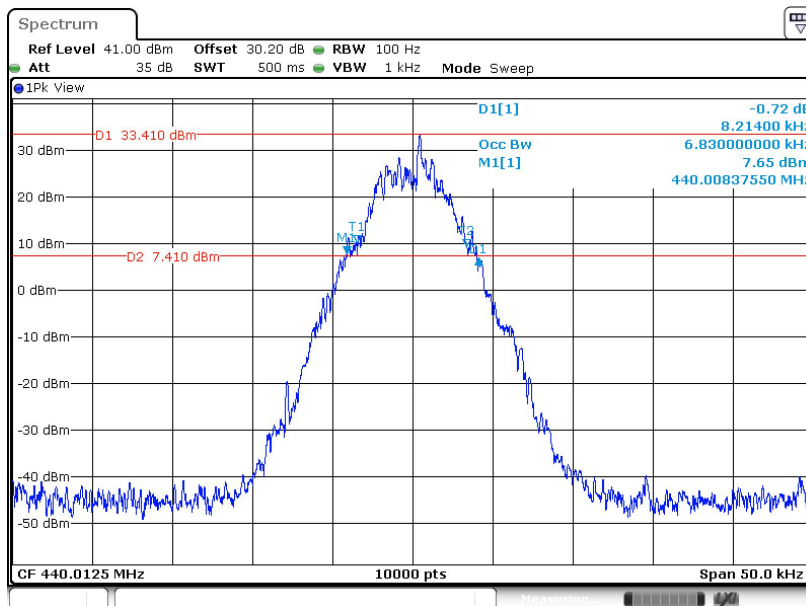


ProjectNo.:2601T36943E-RF Tester:Yuna Mo
Date: 6.JUN.2026 15:40:02

Frequency 400.0125 MHz: Emission Mask D

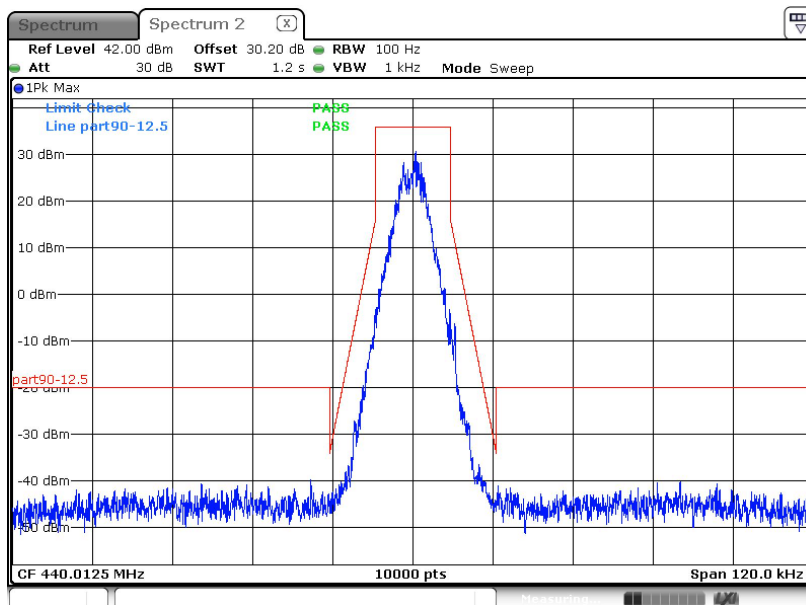


ProjectNo.:2601T36943E-RF Tester:Yuna Mo
Date: 6.JUN.2026 15:59:15

Frequency 440.0125 MHz: 99% Occupied & 26 dB Bandwidth,

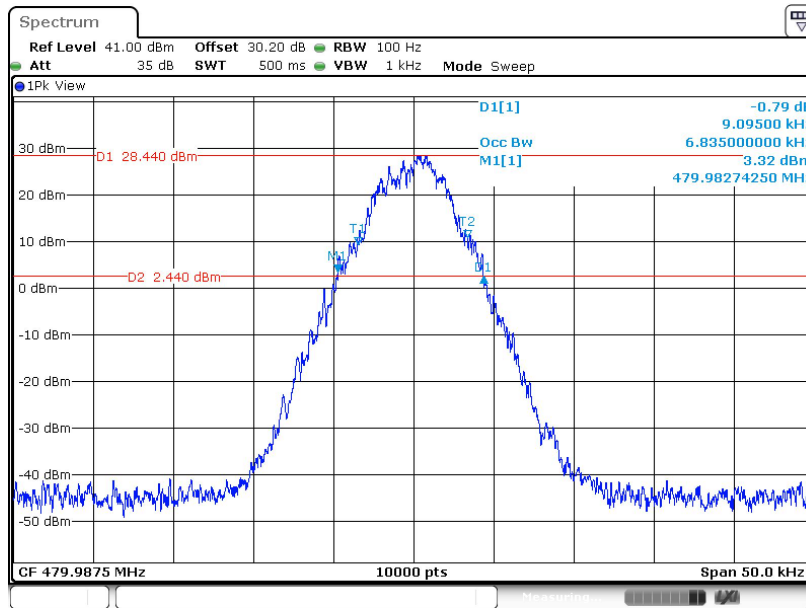
ProjectNo.:2601T36943E-RF Tester:Yuna Mo

Date: 6.JUN.2026 15:31:51

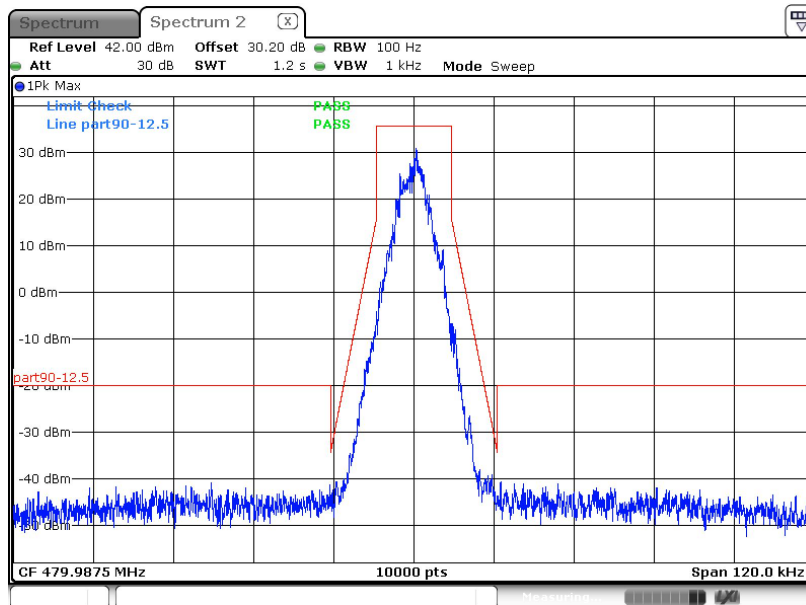
Frequency 440.0125 MHz: Emission Mask D

ProjectNo.:2601T36943E-RF Tester:Yuna Mo

Date: 6.JUN.2026 16:15:52

Frequency 479.9875 MHz: 99% Occupied & 26 dB Bandwidth

ProjectNo.:2601T36943E-RF Tester:Yuna Mo
Date: 6.JUN.2026 15:20:42

Frequency 479.9875 MHz: Emission Mask D

ProjectNo.:2601T36943E-RF Tester:Yuna Mo
Date: 6.JUN.2026 16:30:17

FCC §2.1051 & §90.210 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

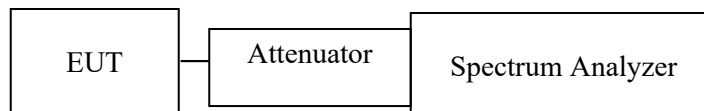
Applicable Standard

Emission Mask D—12.5 kHz channel bandwidth equipment. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- 1) For any frequency removed from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 , 0 dB.
- 2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.626 kHz but no more than 12.5 kHz, at least 7.27 ($f_d - 2.88$ kHz) dB.
- 3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz: At least $50 + 10 \log (P)$ dB or 70 dB, whichever is the lesser attenuation.

Test Procedure

According to ANSI C63.26-2015 section 5.7



Note: The path loss from EUT to Spectrum Analyzer has included in the result.

The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz for below 1GHz, and 1MHz for above 1GHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.

Test Data

Environmental Conditions

Temperature:	24.7 °C
Relative Humidity:	51 %
ATM Pressure:	100.8 kPa

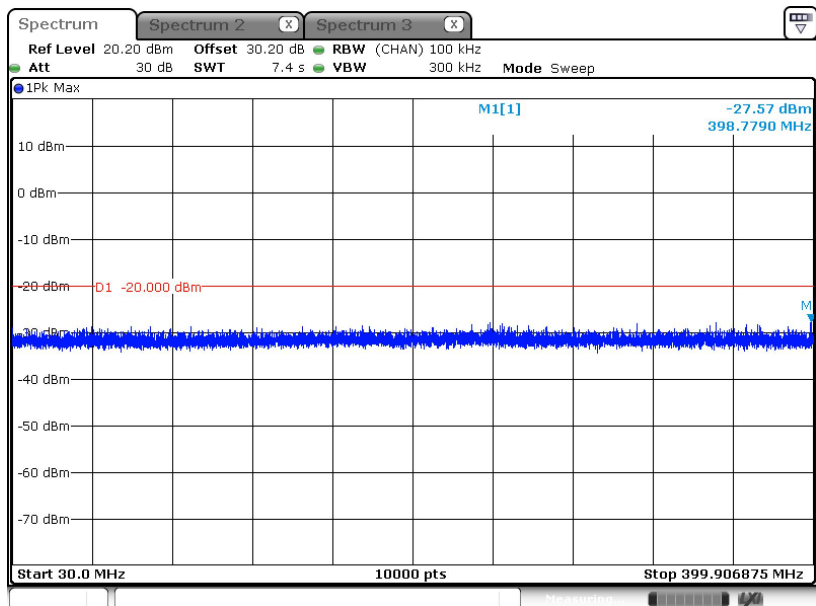
The testing was performed by Jackson Zhu on 2026-09-20.

Test Mode: Transmitting, worst case for high power level.

Test Result: Pass. Please refer to the following plots.

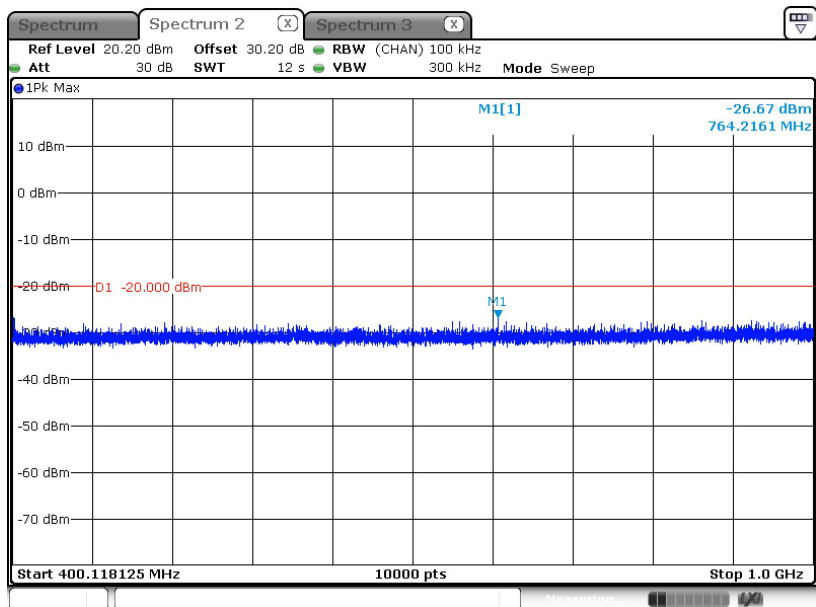
Digital signal, 12.5kHz

30MHz – 1 GHz, Low Channel



ProjectNo.:2601T36943E-RF Tester:Jackson Zhu

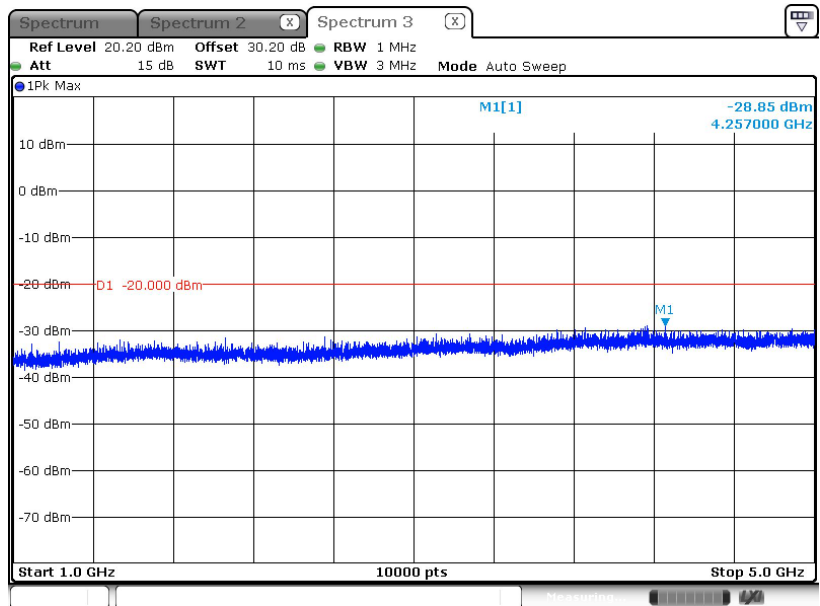
Date: 20.SEP.2026 14:20:32



ProjectNo.:2601T36943E-RF Tester:Jackson Zhu

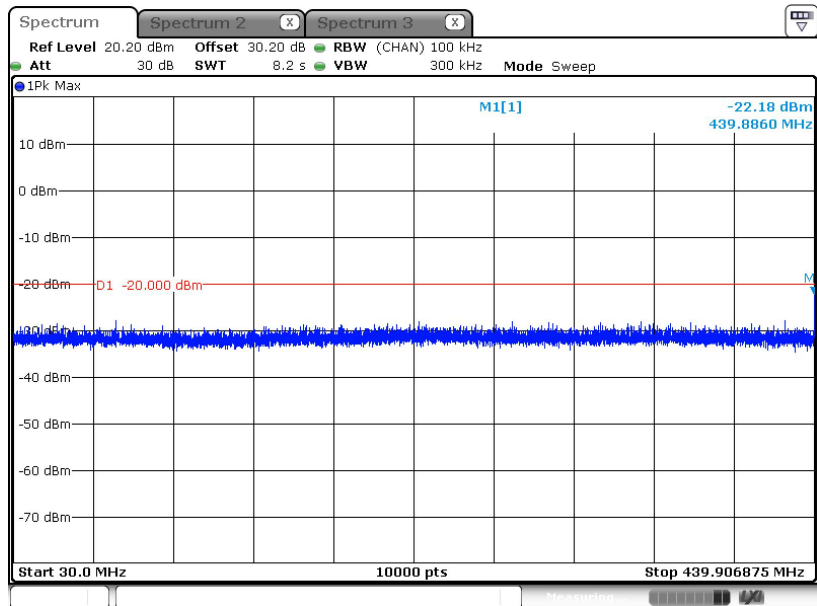
Date: 20.SEP.2026 14:20:00

1 GHz – 5 GHz, Low Channel



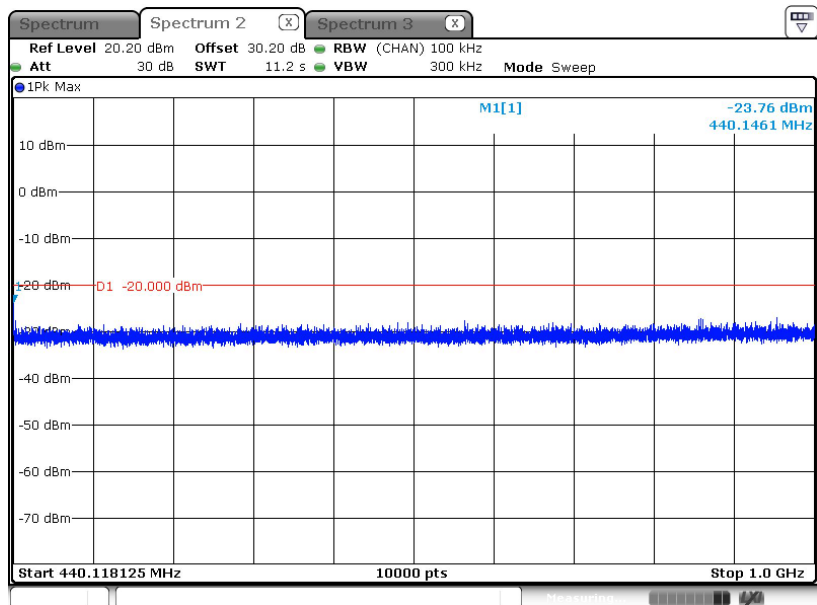
ProjectNo.:2601T36943E-RF Tester:Jackson Zhu
Date: 20.SEP.2026 14:41:41

30MHz – 1 GHz, Middle Channel



ProjectNo.:2601T36943E-RF Tester:Jackson Zhu

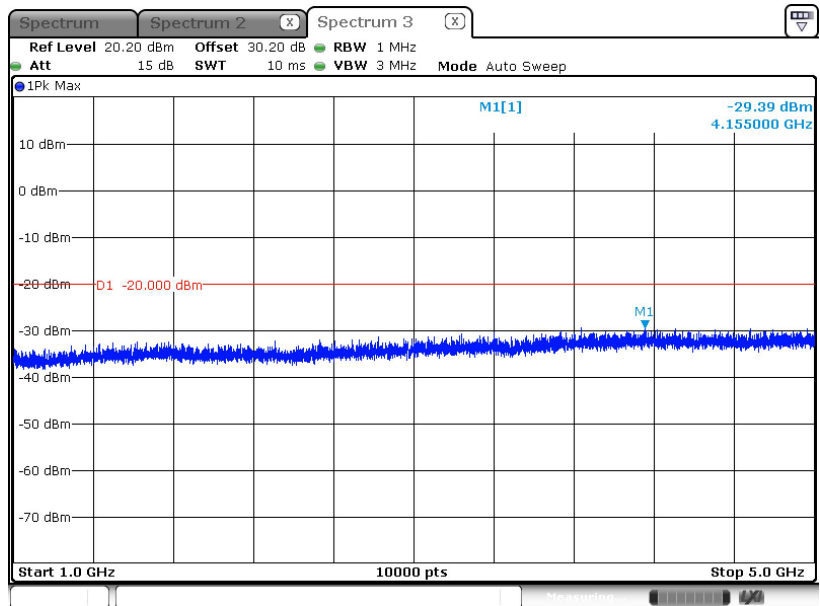
Date: 20.SEP.2026 14:22:24



ProjectNo.:2601T36943E-RF Tester:Jackson Zhu

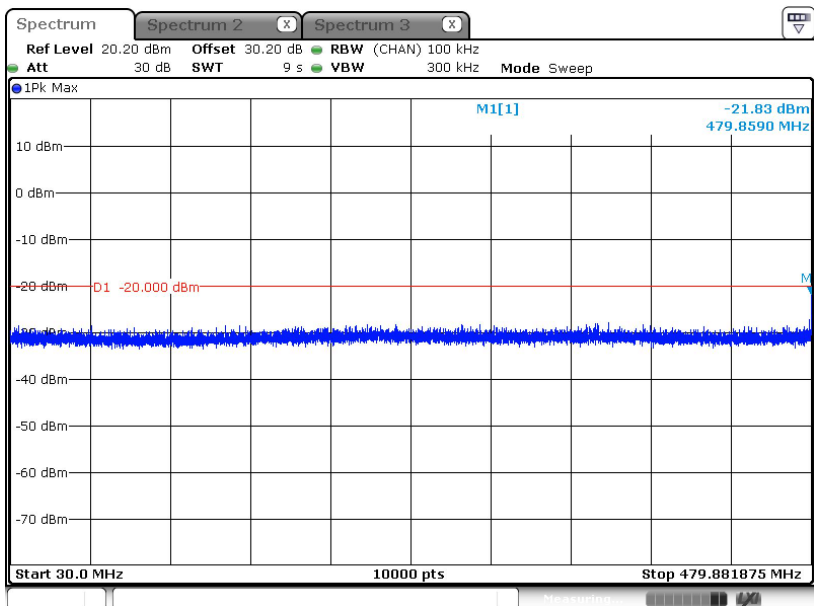
Date: 20.SEP.2026 14:23:14

1 GHz – 5 GHz, Middle Channel



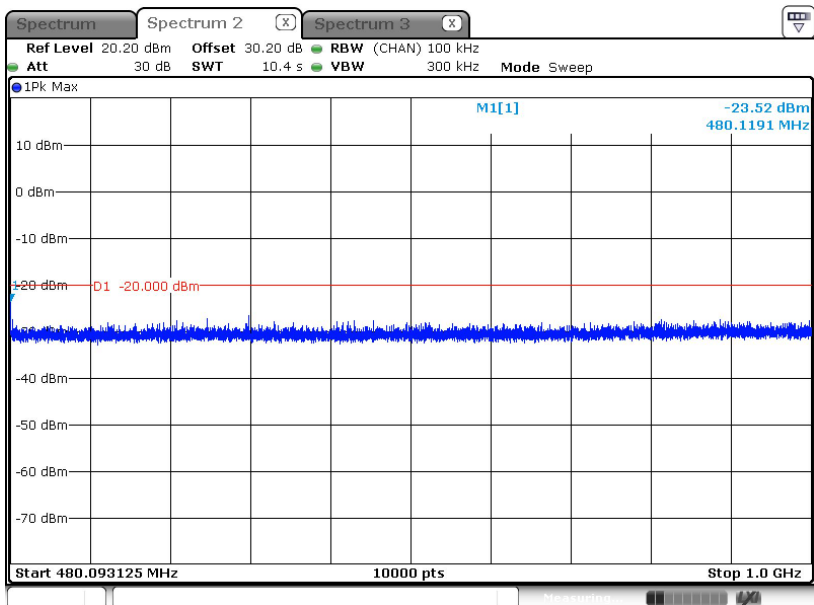
ProjectNo.:2601T36943E-RF Tester:Jackson Zhu
Date: 20.SEP.2026 14:41:24

30MHz – 1 GHz, High Channel



ProjectNo.:2601T36943E-RF Tester:Jackson Zhu

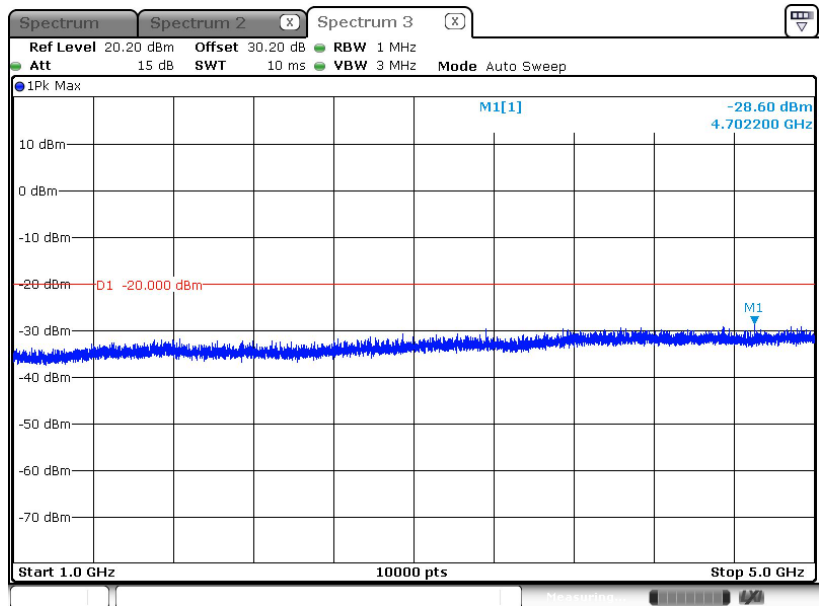
Date: 20.SEP.2026 14:25:08



ProjectNo.:2601T36943E-RF Tester:Jackson Zhu

Date: 20.SEP.2026 14:26:20

1 GHz – 5 GHz, High Channel



ProjectNo.:2601T36943E-RF Tester:Jackson Zhu
Date: 20.SEP.2026 14:41:09

FCC §2.1053 & §90.210 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

FCC §2.1053 and §90.210

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to teeth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001)-the absolute level

Spurious attenuation limit in dB = 50 + 10 Log₁₀ (power out in Watts) for EUT with a 12.5 kHz channel bandwidth.

Test Data

Environmental Conditions

Temperature:	23.1~23.6 °C
Relative Humidity:	54~55 %
ATM Pressure:	99.8~101.2 kPa

The testing was performed by Alex Yan on 2026-06-05 for below 1GHz and Leon Guo on 2026-06-22 for above 1GHz.

Test Mode: Transmitting, worst case for high power level.

Note: Scan with X-AXIS, Y-AXIS, Z-AXIS, the worst case Y-AXIS was recorded

Test Result: Pass. Please refer to the following tables.

30 MHz ~ 5 GHz:

Digital signal, 12.5kHz

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
Low Channel								
800.025	38.46	H	-58.7	1.30	0.0	-60.00	-20	40.00
800.025	51.25	V	-43.7	1.30	0.0	-45.00	-20	25.00
1200.0375	61.76	H	-52.5	1.10	6.70	-46.90	-20	26.90
1200.0375	61.57	V	-53.4	1.10	6.70	-47.80	-20	27.80
1600.0500	57.46	H	-56.9	1.50	8.60	-49.80	-20	29.80
1600.0500	58.67	V	-56.2	1.50	8.60	-49.10	-20	29.10
2000.0625	63.16	H	-51.1	1.40	9.40	-43.10	-20	23.10
2000.0625	61.18	V	-53.8	1.40	9.40	-45.80	-20	25.80
Middle Channel								
880.025	36.24	H	-60.1	1.33	0.0	-61.43	-20	41.43
880.025	47.26	V	-48.8	1.33	0.0	-50.13	-20	30.13
1320.0375	56.78	H	-57.6	1.00	7.30	-51.30	-20	31.30
1320.0375	54.11	V	-61.2	1.00	7.30	-54.90	-20	34.90
1760.0500	55.18	H	-59.0	1.40	9.10	-51.30	-20	31.30
1760.0500	60.32	V	-54.5	1.40	9.10	-46.80	-20	26.80
2200.0625	55.76	H	-58.7	1.50	9.70	-50.50	-20	30.50
2200.0625	54.67	V	-60.1	1.50	9.70	-51.90	-20	31.90
High Channel								
959.975	42.79	H	-53.7	1.36	0.0	-55.06	-20	35.06
959.975	55.74	V	-38.3	1.36	0.0	-39.66	-20	19.66
1439.9625	60.39	H	-53.9	0.90	7.80	-47.00	-20	27.00
1439.9625	56.73	V	-58.3	0.90	7.80	-51.40	-20	31.40
1919.9500	65.95	H	-48.4	1.20	9.40	-40.20	-20	20.20
1919.9500	66.41	V	-48.6	1.20	9.40	-40.40	-20	20.40
2399.9375	55.45	H	-59.2	1.50	9.40	-51.30	-20	31.30
2399.9375	51.99	V	-62.6	1.50	9.40	-54.70	-20	34.70

Note:

- 1) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 2) Margin = Limit- Absolute Level
- 3) Below 1G antenna gain unit is dBd, above 1G antenna gain unit is dBi

FCC §2.1055 & §90.213 - FREQUENCY STABILITY

Applicable Standard

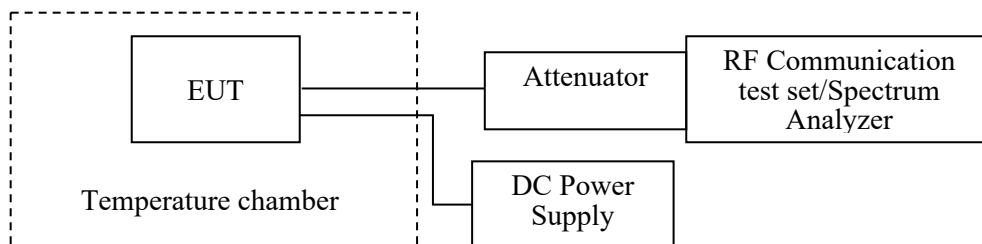
FCC §2.1055 and §90.213

Test Procedure

According to ANSI C63.26-2015 section 5.6

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The power cable and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the counter.



Test Data

Environmental Conditions

Temperature:	24.7 °C
Relative Humidity:	51 %
ATM Pressure:	100.8 kPa

The testing was performed by Yuna Mo on 2026-06-06.

Test Mode: Transmitting, worst case for high power level.

Test Result: Pass. Please refer to the following tables.

Un-modulation, $f_c = 440.0125$ MHz				
Temperature (°C)	Voltage (V _{DC})	Reading (MHz)	Frequency Error (ppm)	Limit (ppm)
-30	7.4	440.0124437	-0.13	2.5
-20		440.0125207	0.05	
-10		440.0124296	-0.16	
0		440.0124652	-0.08	
10		440.0124788	-0.05	
20		440.0124353	-0.15	
30		440.0124578	-0.10	
40		440.0124035	-0.22	
50		440.0124296	-0.16	
20	6.8	440.0124308	-0.16	
20	8.4	440.0124378	-0.14	

Note: the extreme voltage was declared by manufacturer.

FCC §90.214 - TRANSIENT FREQUENCY BEHAVIOR

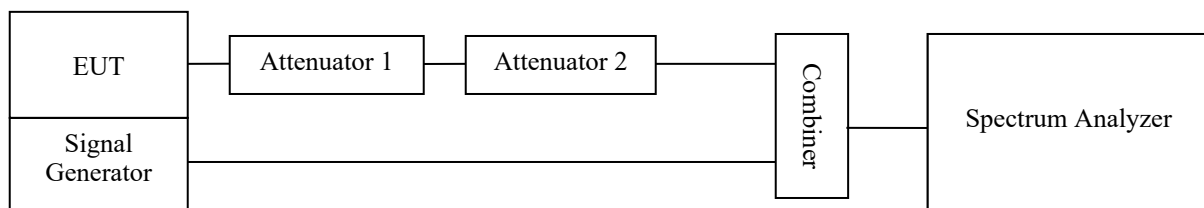
Applicable Standard

Regulations: FCC §90.214

Test method: ANSI C63.26-2015

Test Procedure

- a) Connect the EUT and test equipment as shown on the following block diagram.
- b) Set the Spectrum Analyzer to measure FM deviation, and tune the RF frequency to the transmitter assigned frequency.
- c) Set the signal generator to the assigned transmitter frequency and modulate it with a 1 kHz tone at ± 12.5 kHz deviation and set its output level to -100dBm.
- d) Turn on the transmitter.
- e) Supply sufficient attenuation via the RF attenuator to provide an input level to the Spectrum Analyzer that is 40 dB below the maximum allowed input power when the transmitter is operating at its rated power level. Note this power level on the Spectrum Analyzer as P_0 .
- f) Turn off the transmitter.
- g) Adjust the RF level of the signal generator to provide RF power equal to P_0 . This signal generator RF level shall be maintained throughout the rest of the measurement.
- h) Remove the attenuation 1, so the input power to the Spectrum Analyzer is increased by 30 dB when the transmitter is turned on.
- i) Adjust the vertical amplitude control of the spectrum analyzer to display the 1000 Hz at ± 4 divisions vertically centered on the display. Set trigger mode of the Spectrum Analyzer to "Video", and tune the "trigger level" on suitable level. Then set the "trigger offset" to -10ms for turn on and -15ms for turn off.
- j) Turn on the transmitter and the transient wave will be captured on the screen of Spectrum Analyzer. Observe the stored display. The instant when the 1 kHz test signal is completely suppressed is considered to be t_{on} . The trace should be maintained within the allowed divisions during the period t_1 and t_2 .
- k) Then turn off the transmitter, and another transient wave will be captured on the screen of Spectrum Analyzer. The trace should be maintained within the allowed divisions during the period t_3 .



Test Data**Environmental Conditions**

Temperature:	24.7 °C
Relative Humidity:	51 %
ATM Pressure:	100.8 kPa

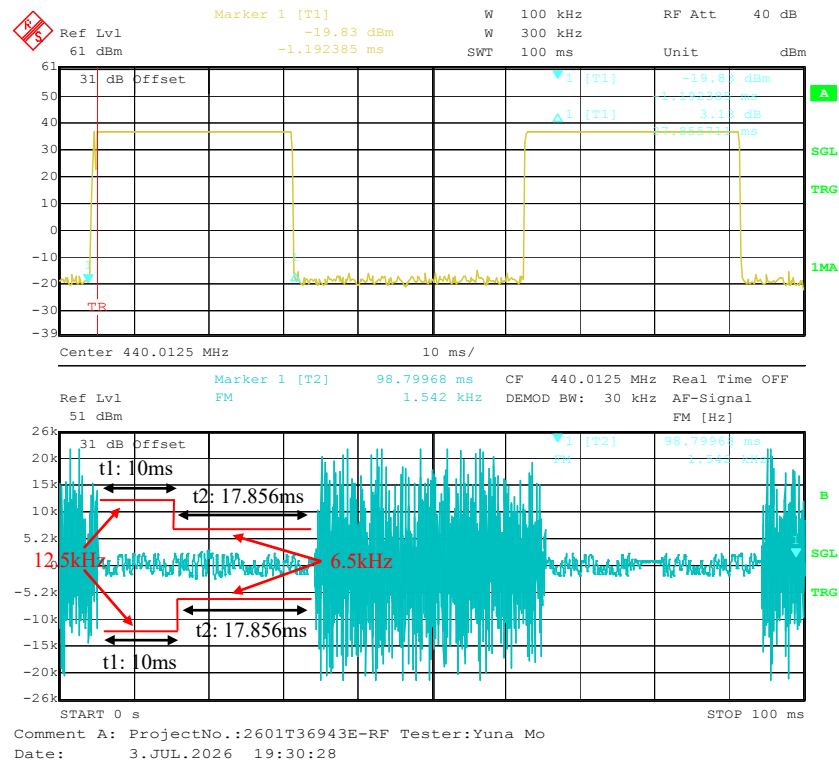
The testing was performed by Yuna Mo on 2026-06-06.

Test Result: Pass. Please refer to the following tables and plots.

Channel Separation (kHz)	Transient Period (ms)	Transient Frequency	Result
12.5	10(t1)	±12.5kHz	Compliant
	25(t2)	±6.25kHz	Compliant
	10(t3)	±12.5kHz	Not Applicable

Not Applicable: t3 is not applicable for the t2 less than 25ms

12.5kHz



EUT PHOTOGRAPHS

Please refer to the attachment 2601T36943E-RF-EXP External photo and 2601T36943E-RF-INP Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2601T36943E-RF-TSP Test Setup photo.

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