

TEST REPORT

Applicant Name: Cobra Electronics Corporation
Address: 1701 Golf Road Suite 3-900 Rolling Meadows Illinois United States 60008
Report Number: 2601Q14787E-RF-00
FCC ID: BBOPERF600

Test Standard (s)

FCC PART 90

Sample Description

Product Type: COBRA PERFORMA 600 RADIO DIGITAL BULK, US
COBRA PERFORMA 600 DIGITAL SINGLE PACK, US
COBRA PERFORMA 600 DIGITAL SIX PACK, US
COBRA PERFORMA 600 DIGITAL RADIO, US

Model No.: 0190019-1
Multiple Model(s) No.: 0190021-1, 0190021-2, 0190021-3
Trade Mark: Cobra
Date Received: 2026/02/11
Report Date: 2026/06/22

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

Prepared and Checked By:

Bruce Lin

Bruce Lin
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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Bay Area Compliance Laboratories Corp. (Shenzhen)

5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China

Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2601Q14787E-RF-00	Original Report	2026/06/22

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	COBRA PERFORMA 600 RADIO DIGITAL BULK, US COBRA PERFORMA 600 DIGITAL SINGLE PACK, US COBRA PERFORMA 600 DIGITAL SIX PACK, US COBRA PERFORMA 600 DIGITAL RADIO, US
Tested Model	0190019-1
Multiple Model(s)	0190021-1, 0190021-2, 0190021-3
Frequency Range	400-480MHz
Rated Transmit Power	2 Watts(High), 0.5 Watt(Low)
Channel separation	12.5kHz
Modulation Technique	FM, 4FSK
Antenna Specification [#]	1.85dBi (provided by the applicant)
Voltage Range	DC 5V from adapter or 3.7V from battery
Sample serial number	3HJQ-2 for RF Conducted Test 3HJQ-1 for Radiated Emissions (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Adapter 1 Model: KA12C-0502000US Input: 100-240V~50/60Hz 0.35A Max Output: 5V=2000mA Adapter 2 Model: TJ05301W0506000US Input: 100-240V~50/60Hz 1.2A MAX Output: 5.0V=6000mA
Note: The Multiple models are electrically identical with the test model except for product name, model name and quantity of the radio/Six Pack/Single Pack. Please refer to the declaration letter [#] for more detail, which was provided by manufacturer.	

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.

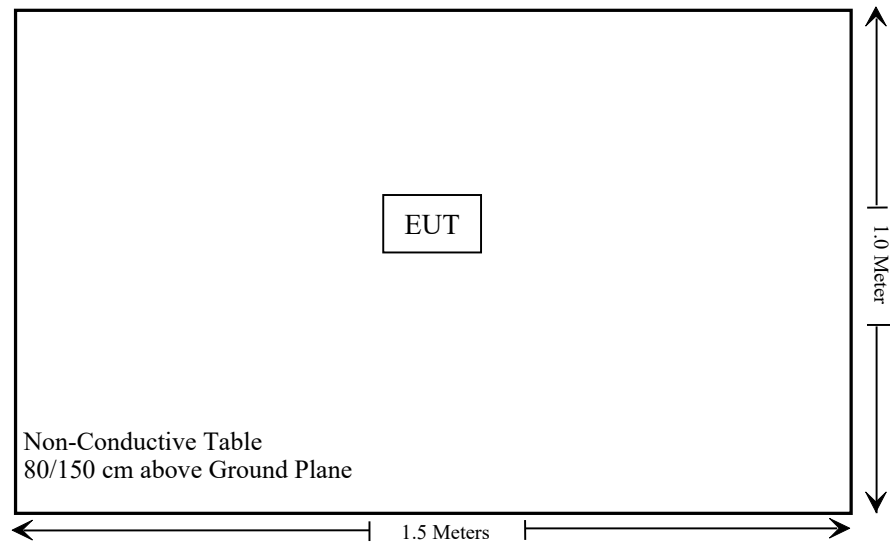
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	From Port	To
/	/	/	/

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	Compliant
§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

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
Unknown	U Band Pass Filter	NHP-600+	15542	2025/06/26	2026/06/25
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
The Electro-Mechanics Co.	Horn Antenna	3115	9107-3694	2024/06/06	2027/06/05
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
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101942	2025/09/01	2026/08/31
BACL	Temp&Humi Test Chamber	BTH-150-40	30145	2025/09/11	2026/09/10
HP	RF Communication test set	8920B	US36141849	2025/09/18	2026/09/17
instek	DC Power Supply	GPS-3030DD	EM832096	NCR	NCR
Fluke	Digital Multimeter	287	19000011	2025/04/29	2026/04/28
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2025/09/22	2026/09/21
Unknown	30dB Attenuator	53-30-43	PG633	2025/06/26	2026/06/25
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: 2601Q14787E-SA.

FCC §2.1046 & §90.205 - RF OUTPUT POWER

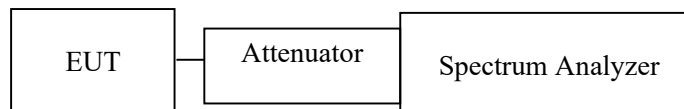
Applicable Standard

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:	25.2 °C
Relative Humidity:	42 %
ATM Pressure:	100.6 kPa

The testing was performed by Cheeb Huang on 2026-03-12.

Test Mode: Transmitting

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

Rated Output Power

High Power Level	2	W	Low Power Level	0.5	W
	33.01	dBm		26.99	dBm

High Power Level

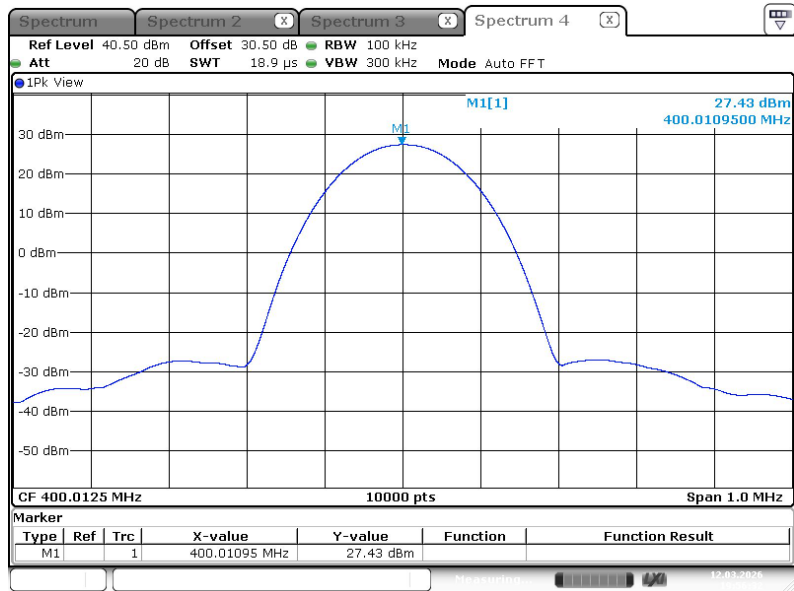
Modulation Mode	Channel Separation	f_c	Reading (dBm)
		MHz	
FM	12.5kHz	400.0125	32.83
		440.0125	32.66
		479.9875	32.59
4FSK	12.5kHz	400.0125	32.96
		440.0125	32.77
		479.9875	32.70

Low Power Level

Modulation Mode	Channel Separation	f_c	Reading (dBm)
		MHz	
FM	12.5kHz	400.0125	27.32
		440.0125	27.19
		479.9875	27.14
4FSK	12.5kHz	400.0125	27.43
		440.0125	26.91
		479.9875	26.79

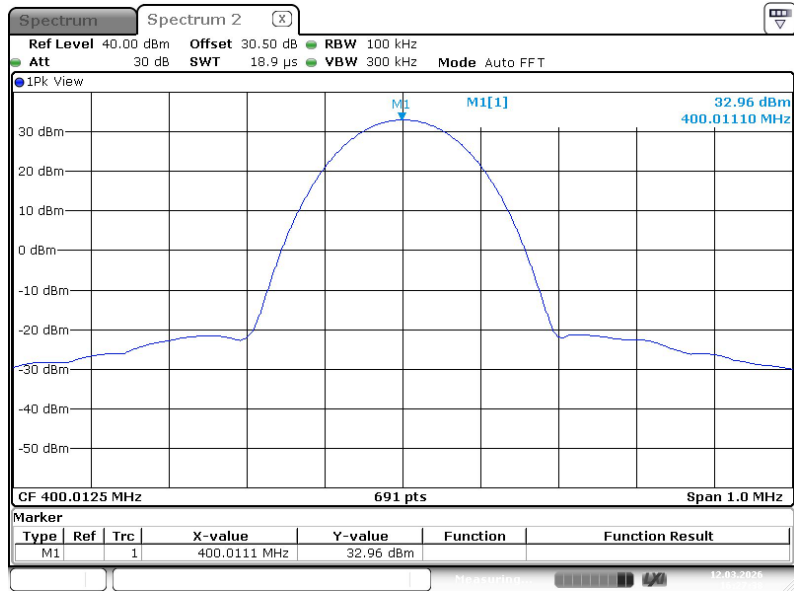
4FSK, 12.5kHz

Frequency 400.0125MHz, Low Power



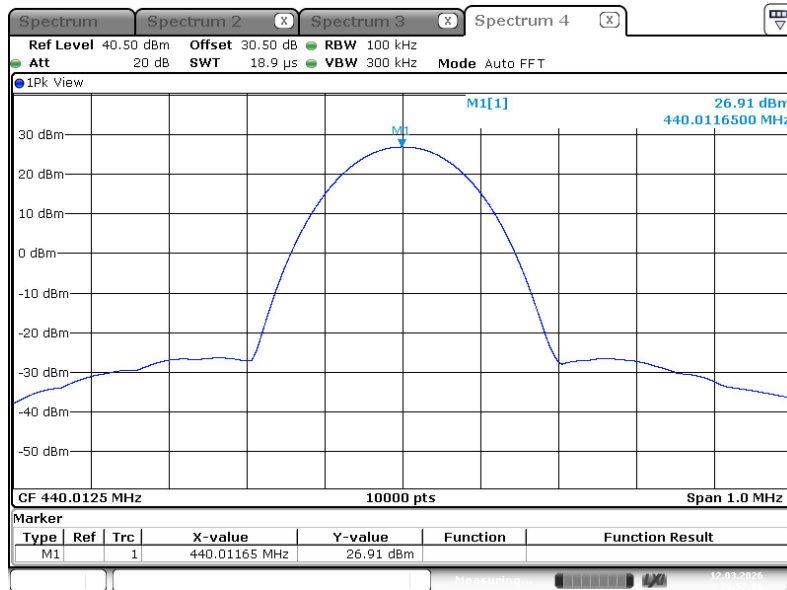
ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 19:56:32

Frequency 400.0125MHz, High Power



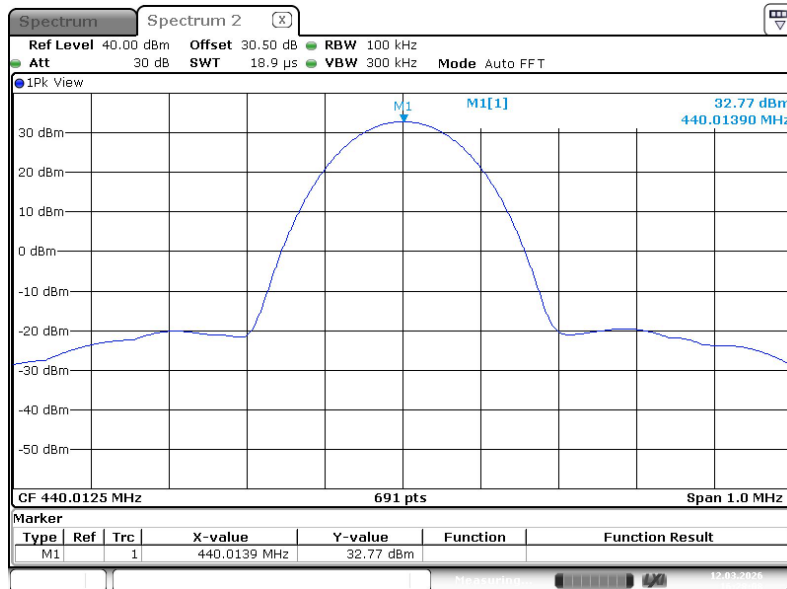
ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 16:27:38

Frequency 440.0125MHz, Low Power



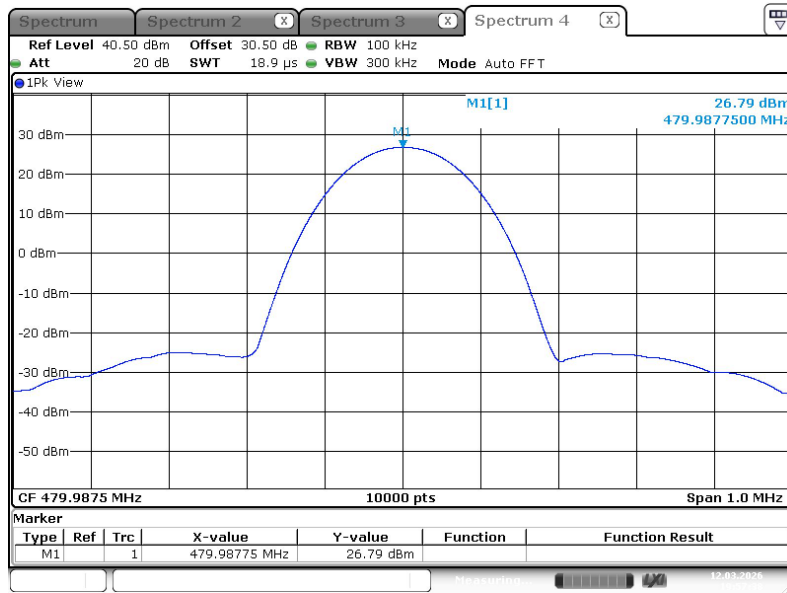
ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 19:57:08

Frequency 440.0125MHz, High Power



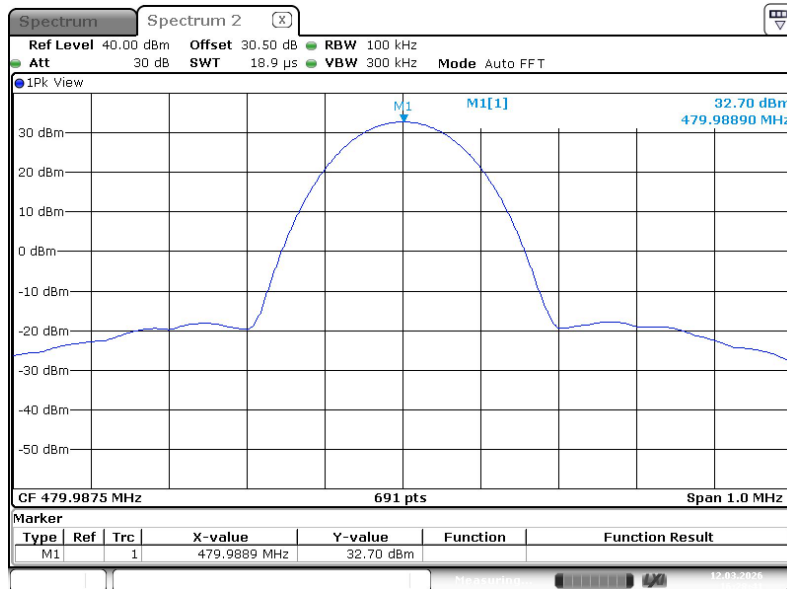
ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 16:28:08

Frequency 479.9875 MHz, Low Power



ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 19:57:38

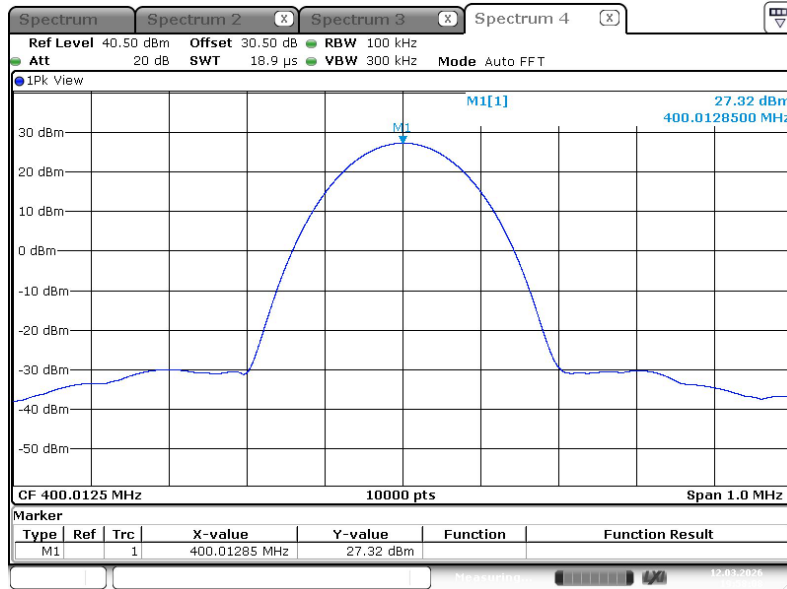
Frequency 479.9875 MHz, High Power



ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 16:28:42

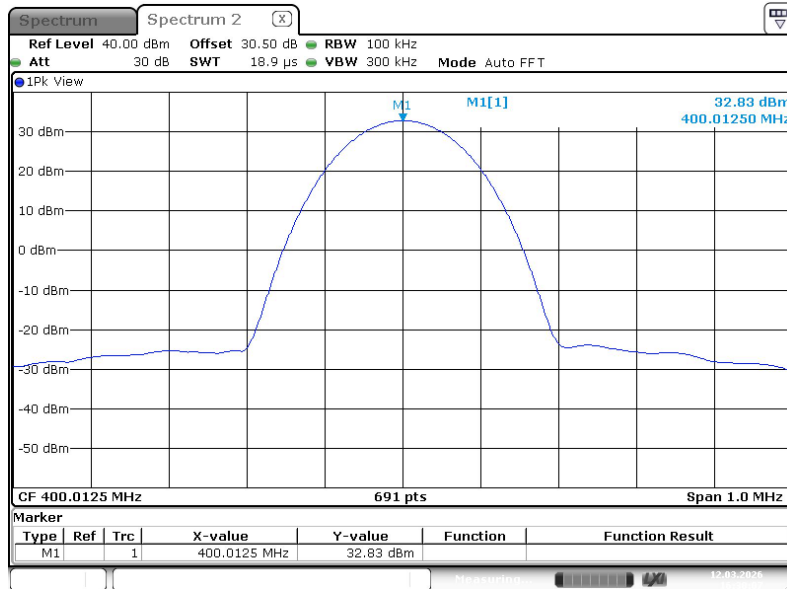
FM 12.5kHz

Frequency 400.0125MHz, Low Power



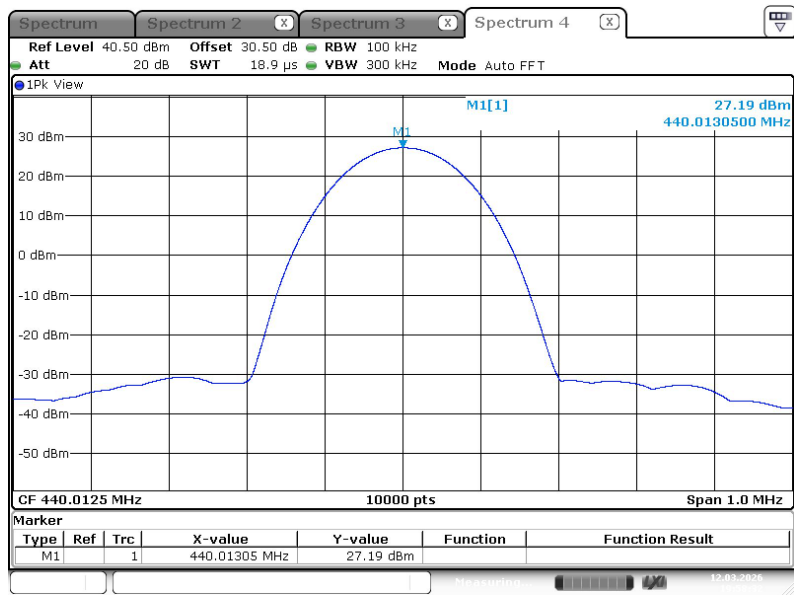
ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 19:58:08

Frequency 400.0125MHz, High Power



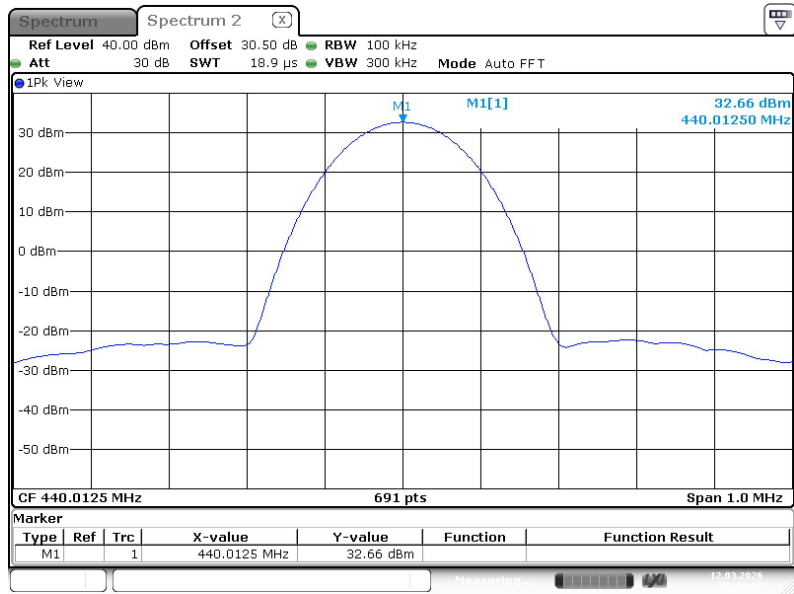
ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 16:30:07

Frequency 440.0125MHz, Low Power



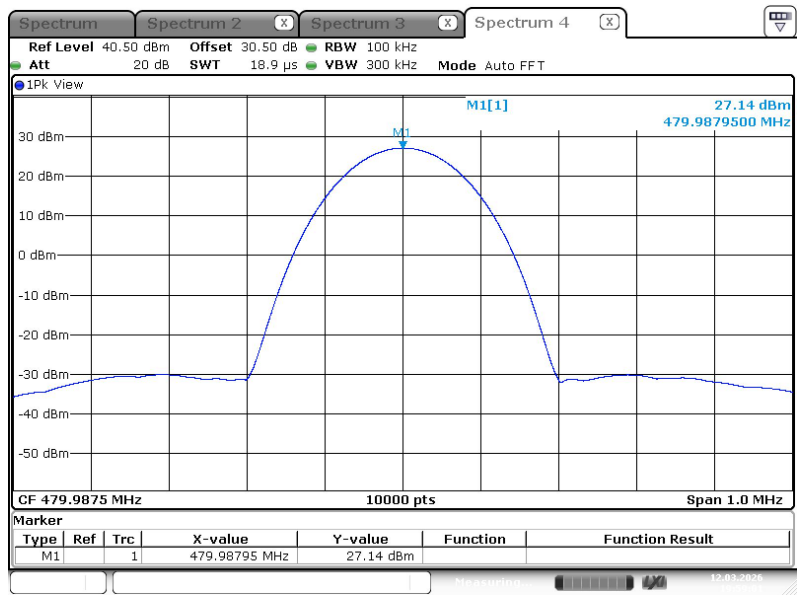
ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 19:58:32

Frequency 440.0125MHz, High Power



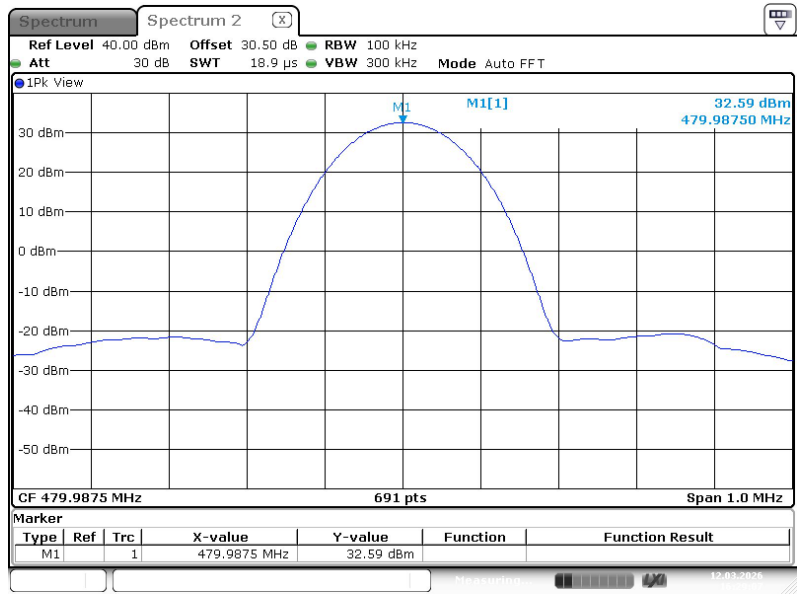
ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 16:29:36

Frequency 479.9875 MHz, Low Power



ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 19:59:00

Frequency 479.9875 MHz, High Power



ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 16:29:08

FCC §2.1047 & §90.207 - MODULATION CHARACTERISTIC

Applicable Standard

FCC§2.1047 and §90.207:

- (a) Equipment which utilizes voice modulated communication shall show the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz. for equipment which is required to have a low pass filter, the frequency response of the filter, or all of the circuitry installed between the modulation limited and the modulated stage shall be supplied.
- (b) Equipment which employs modulation limiting, a curve showing the percentage of modulation versus the modulation input voltage shall be supplied.

Test Procedure

For modulation limiting and audio frequency response:

Test Method: ANSI C63.26-2015 section 5.3

5.3.2 Modulation limiting test methodology

Modulation limiting is the ability of a transmitter circuit to limit the transmitter from producing deviations in excess of a rated system deviation.

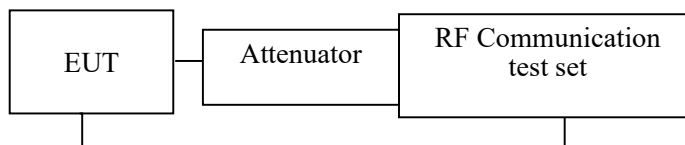
- a) Connect the equipment as illustrated in Figure 1.
- b) Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- c) Set the test receiver to measure peak positive deviation. Set the audio bandwidth for ≤ 0.25 Hz to ≥ 15 000 Hz. Turn the de-emphasis function off.
- d) Apply a 1000 Hz modulating signal to the transmitter from the audio frequency generator, and adjust the level to obtain 60% of full rated system deviation. This is the 0 dB reference level.
- e) Increase the level from the audio generator by 20 dB in 5 dB increments recording the deviation as measured from the test receiver in each step. Verify that the audio level used to make the OBW measurement is included in the sweep.
- f) Repeat for step e) at 300 Hz, 2500 Hz and 3000 Hz at a minimum using the 0 dB reference level obtained in step d).
- g) Set the test receiver to measure peak negative deviation and repeat step d) through step f).
- h) The values recorded in step f) and step g) are the modulation limiting.
- i) Plot the data set as a percentage of deviation relative to the 0 dB reference point versus input voltage.

5.3.3.2 Audio frequency response test methodology—Constant Input

- a) Connect the equipment as illustrated in Figure 3.
- b) Set the test receiver to measure peak positive deviation. Set the audio bandwidth for ≤ 50 Hz to ≥ 15 000 Hz. Turn the de-emphasis function off.
- c) Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- d) Apply a 1000 Hz tone and adjust the audio frequency generator to produce 20% of the rated system deviation.
- e) Set the test receiver to measure rms deviation and record the deviation reading as DEVREF.
- f) Set the audio frequency generator to the desired test frequency between 300 Hz and 3000 Hz.
- g) Record the test receiver deviation reading as DEVFREQ.
- h) Calculate the audio frequency response at the present frequency as follows in Equation (4):

$$\text{audio frequency response} = 20 \log_{10} \left(\frac{\text{DEV}_{\text{FREQ}}}{\text{DEV}_{\text{REF}}} \right) \quad (4)$$

- i) Repeat step f) through step h) for all the desired test frequencies.

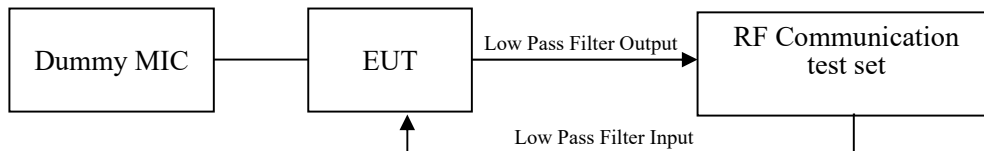


For Audio Low Pass Filter Response:

Test Method: TIA 603-E-2016 Section 2.2.15:

- Connect the audio frequency generator as close as possible the input of the post limiter low pass filter within the transmitter under test.
- Connect the audio spectrum analyzer to the output of the post limiter low pass filter within the transmitter under test.
- Apply a 1000 Hz tone from the audio frequency generator and adjust the level per manufacturer's specifications.
- Record the dB level of the 1000 Hz spectral line on the audio spectrum analyzer as LEV_{REF} .
- Set the audio frequency generator to the desired test frequency between 3000 Hz and the upper low pass filter limit.
- Record audio spectrum analyzer levels, at the test frequency in step e).
- Record the dB level on the audio spectrum analyzer as LEV_{FREQ} .
- Calculate the audio frequency response at the test frequency as:

$$low\ pass\ frequency\ response = LEV_{FREQ} - LEV_{REF}$$
- Repeat steps f) through i) for all the desired test frequencies.

**Test Data****Environmental Conditions**

Temperature:	25.2~25.6 °C
Relative Humidity:	42~48 %
ATM Pressure:	100.6~100.9 kPa

The testing was performed by Cheeb Huang from 2026-03-13 to 2026-03-15.

Test Mode: Transmitting

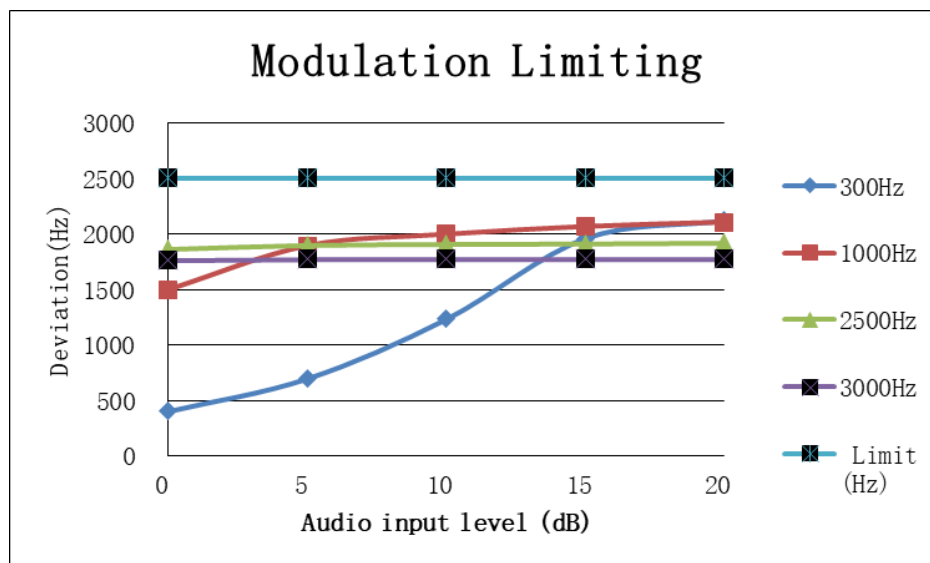
Test Result: Pass. Please refer to the following tables and plots.

Analog Modulation:**MODULATION LIMITING**

Carrier Frequency: 440.0125MHz, Separation: 12.5kHz

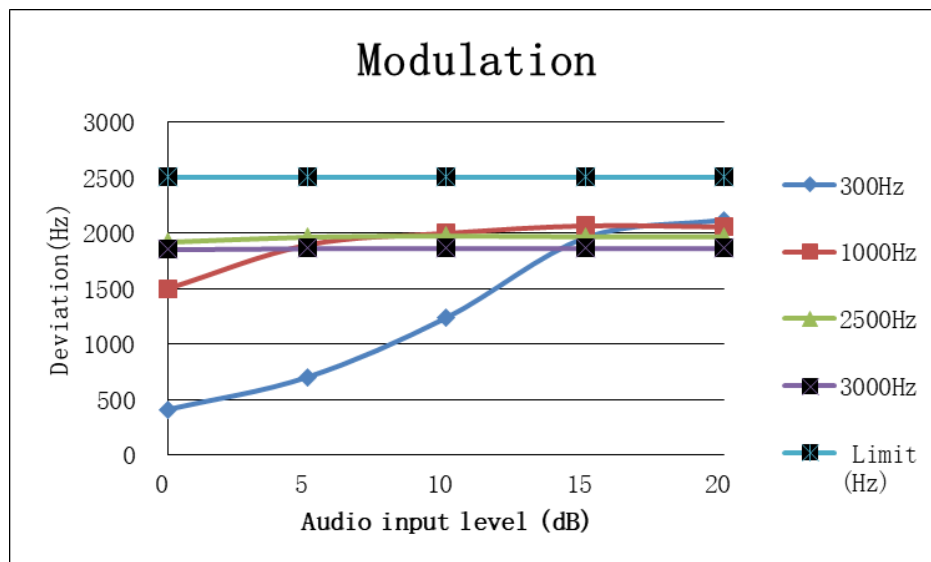
Peak+ deviation

Audio input level (dB)	Deviation (Hz)				Limit (Hz)
	300Hz	1000Hz	2500Hz	3000Hz	
20	2119	2105	1920	1775	2500
15	1960	2066	1913	1775	2500
10	1235	1997	1909	1772	2500
5	700	1894	1900	1772	2500
0	406	1500	1864	1761	2500



Peak- deviation

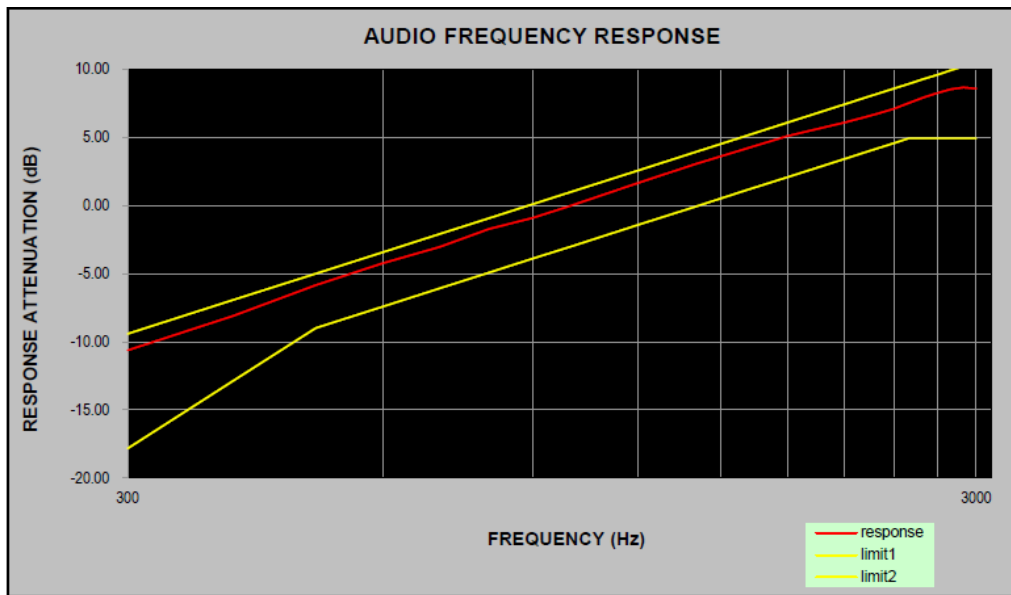
Audio input level (dB)	Deviation (Hz)				Limit (Hz)
	300Hz	1000Hz	2500Hz	3000Hz	
20	2117	2056	1970	1865	2500
15	1956	2066	1968	1862	2500
10	1237	1999	1975	1864	2500
5	702	1893	1965	1862	2500
0	412	1500	1919	1853	2500



Audio Frequency Response

Carrier Frequency: 440.0125MHz, Separation: 12.5kHz

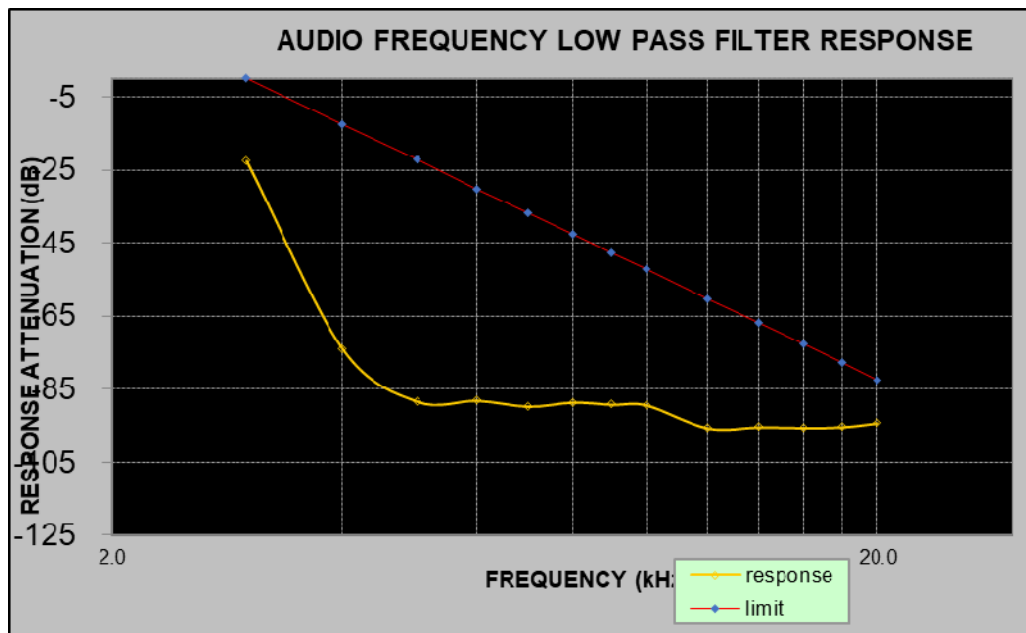
Audio Frequency (Hz)	Response Attenuation (dB)
300	-10.63
400	-8.09
500	-5.85
600	-4.24
700	-3.05
800	-1.72
900	-0.92
1000	0.00
1200	1.66
1400	3.03
1600	4.13
1800	5.10
2000	5.77
2100	6.09
2200	6.42
2300	6.75
2400	7.11
2500	7.52
2600	7.92
2700	8.25
2800	8.54
2900	8.67
3000	8.59



Audio Frequency Low Pass Filter Response

Carrier Frequency: 440.0125MHz, Separation: 12.5 kHz

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
1.0	0.0	/
3.0	-22.5	0.0
4.0	-73.9	-12.5
5.0	-88.3	-22.2
6.0	-88.1	-30.1
7.0	-89.7	-36.8
8.0	-88.6	-42.6
9.0	-89.2	-47.7
10.0	-89.4	-52.3
12.0	-95.6	-60.2
14.0	-95.3	-66.9
16.0	-95.5	-72.7
18.0	-95.3	-77.8
20.0	-94.2	-82.5



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

Applicable Standard

FCC §2.1049, §90.209 and §90.210

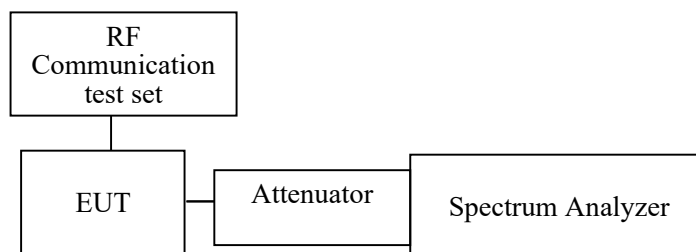
Emission Mask D - 12.5 kHz channel bandwidth equipment. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- 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 $7.27 (f_d - 2.88 \text{ kHz})$ 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

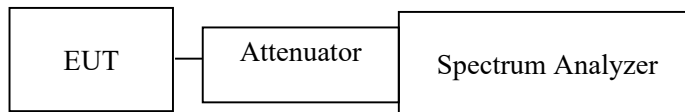
response of the audio modulating circuit. Transmitters employing digital modulation techniques that bypass the limiter and the audio low-pass filter shall be modulated as specified by the manufacturer.

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:	25.2 °C
Relative Humidity:	42 %
ATM Pressure:	100.6 kPa

The testing was performed by Cheeb Huang from 2026-03-12 to 2026-06-22.

Test mode: Transmitting

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

Modulation Mode	Channel Separation	f _c	High Power Level		Low Power Level	
			99% Occupied Bandwidth	26 dB Bandwidth	99% Occupied Bandwidth	26 dB Bandwidth
		MHz	kHz	kHz	kHz	kHz
FM	12.5kHz	400.0125	9.841	10.203	9.841	10.275
		440.0125	9.913	10.203	9.913	10.203
		479.9875	9.841	10.203	9.841	10.235
4FSK	12.5kHz	400.0125	7.091	9.551	7.164	9.696
		440.0125	7.308	9.551	7.236	9.407
		479.9875	7.164	9.407	7.453	9.913

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

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

For FM Mode (Channel Spacing: 12.5 kHz)

Emission Designator 11K0F3E. In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation. $BW = 2(M+D) = 2(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} \rightarrow 11K0$*

F3E portion of the designator represents an FM voice transmission Therefore, the entire designator for 12.5 kHz channel spacing FM mode is 11K0F3E.

For Digital Mode (Channel Spacing: 12.5 kHz)

Emission Designator 7K60F1D and 7K60F1E

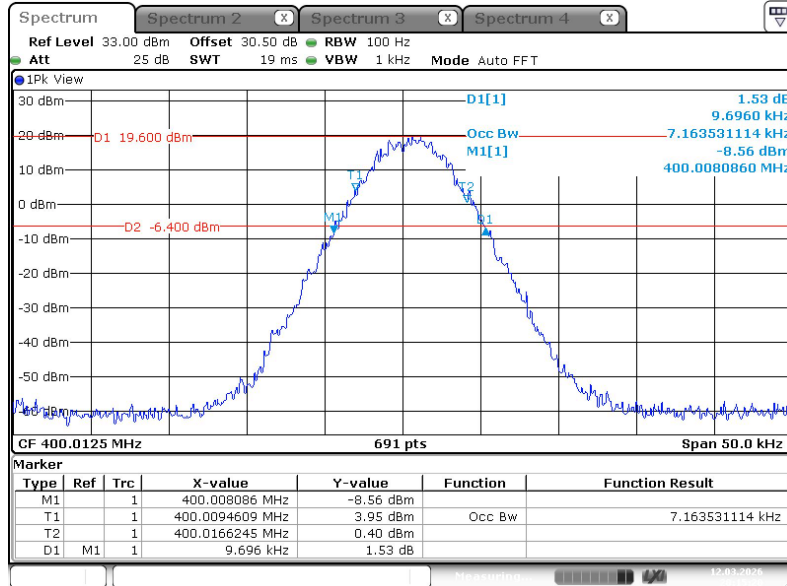
The 99% energy rule (title 47CFR 2.1049) was used for digital mode. It basically states that 99% of the modulation energy falls within X kHz, in this case, 7.60kHz. The emission mask was obtained from 47CFR 90.210(d).

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.

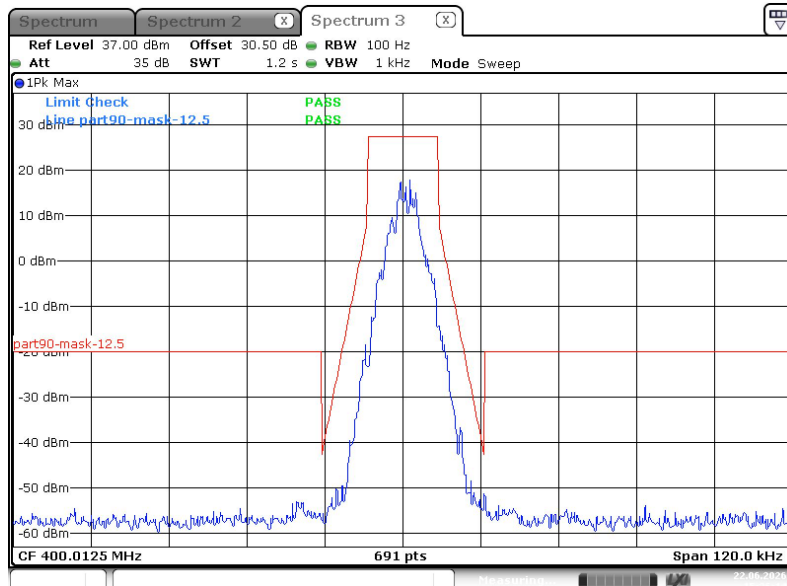
4FSK, 12.5kHz

Frequency 400.0125 MHz: 99% Occupied & 26 dB Bandwidth, Low Power



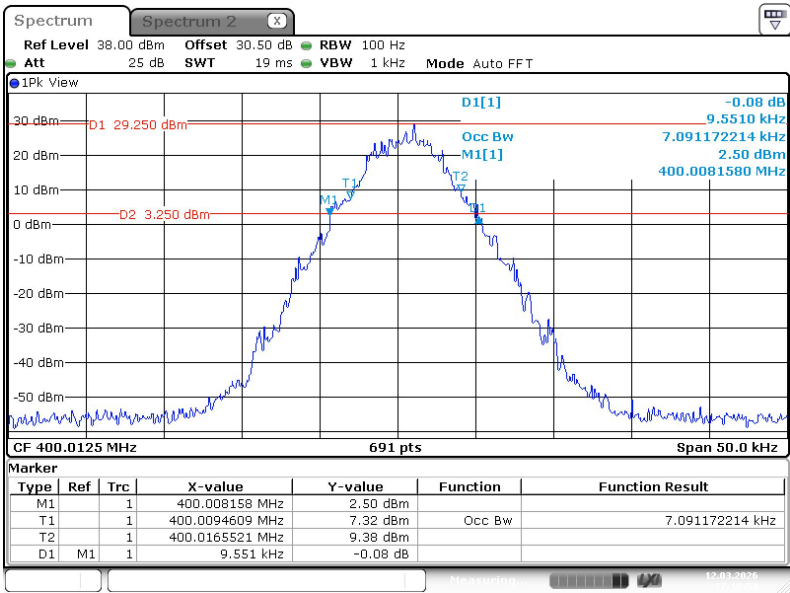
ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 20:15:20

Frequency 400.0125 MHz: Emission Mask D, Low Power



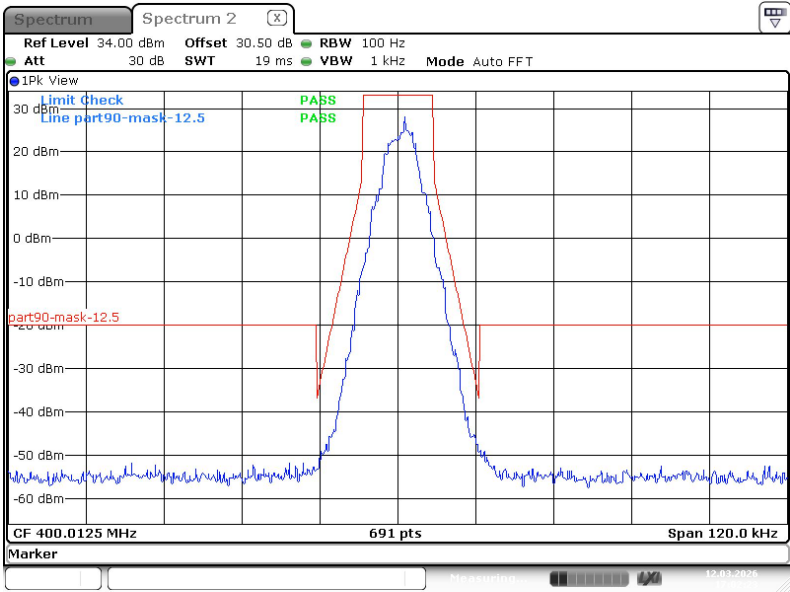
ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 22.JUN.2026 15:36:15

Frequency 400.0125 MHz: 99% Occupied & 26 dB Bandwidth, High Power



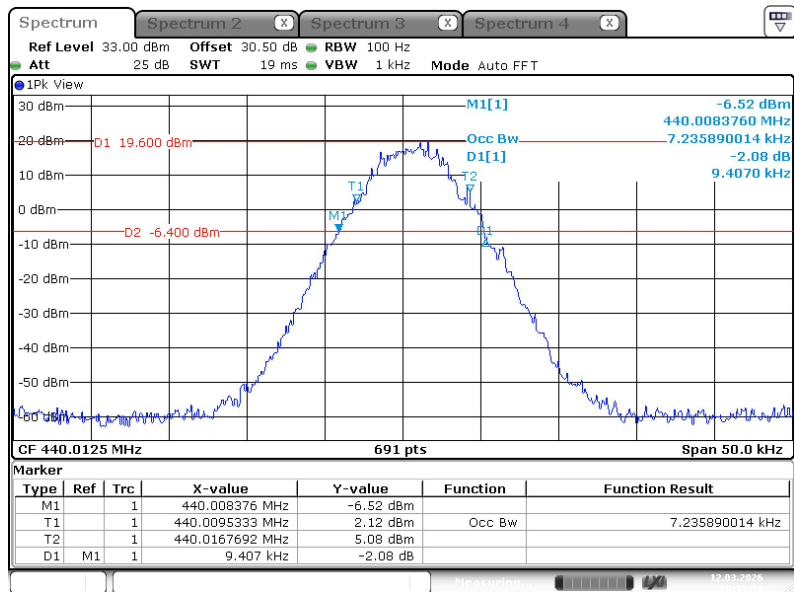
ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 17:10:55

Frequency 400.0125 MHz: Emission Mask D, High Power



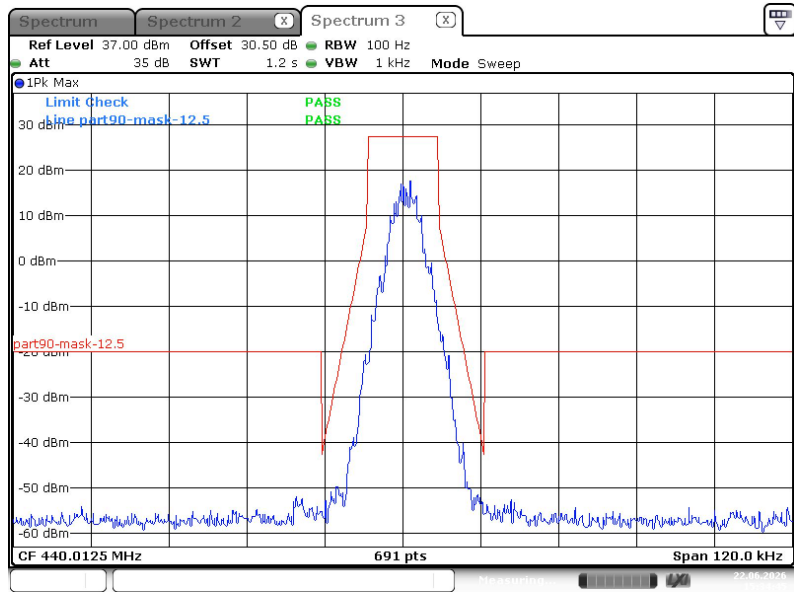
ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 17:02:23

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

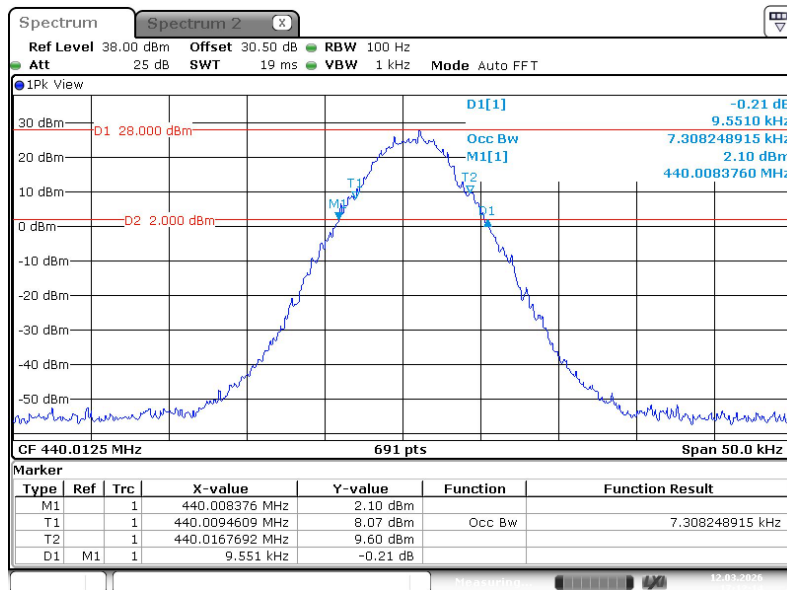


ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 20:15:54

Frequency 440.0125 MHz: Emission Mask D, Low Power

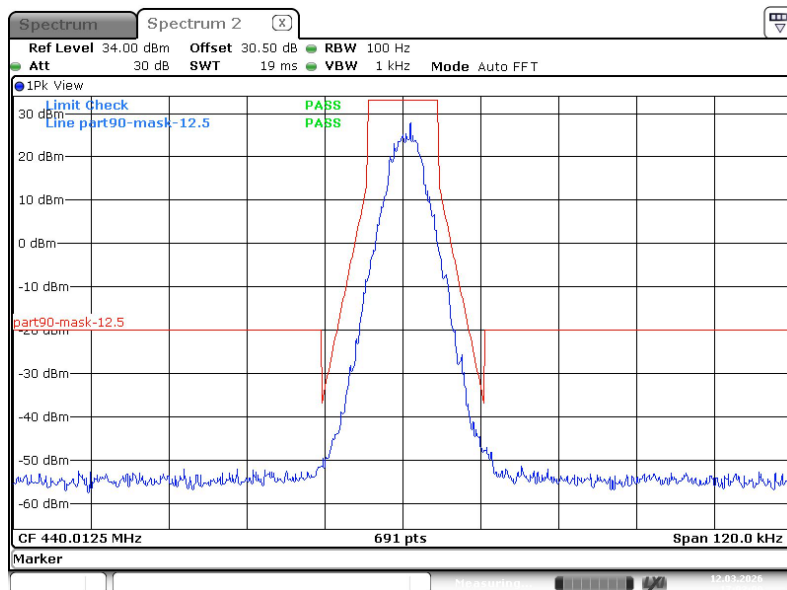


ProjectNo.:2601Q14787E-RFTester:Cheeb Huang
Date: 22.JUN.2026 15:34:46

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

ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang

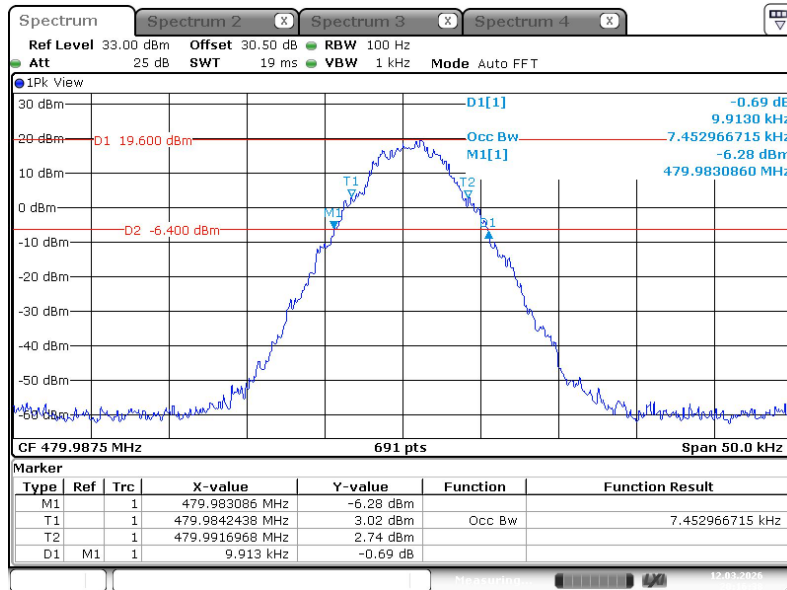
Date: 12.MAR.2026 17:12:15

Frequency 440.0125 MHz: Emission Mask D, High Power

ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang

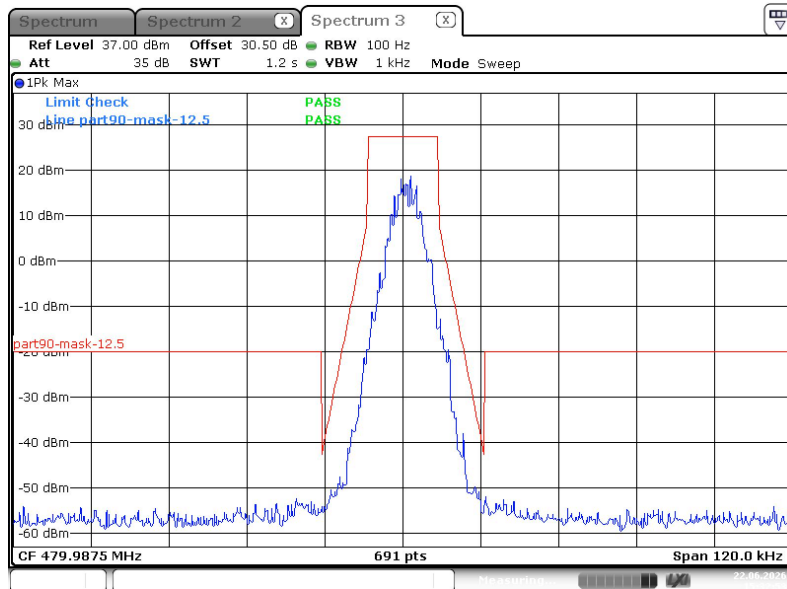
Date: 12.MAR.2026 17:03:00

Frequency 479.9875 MHz: 99% Occupied & 26 dB Bandwidth, Low Power



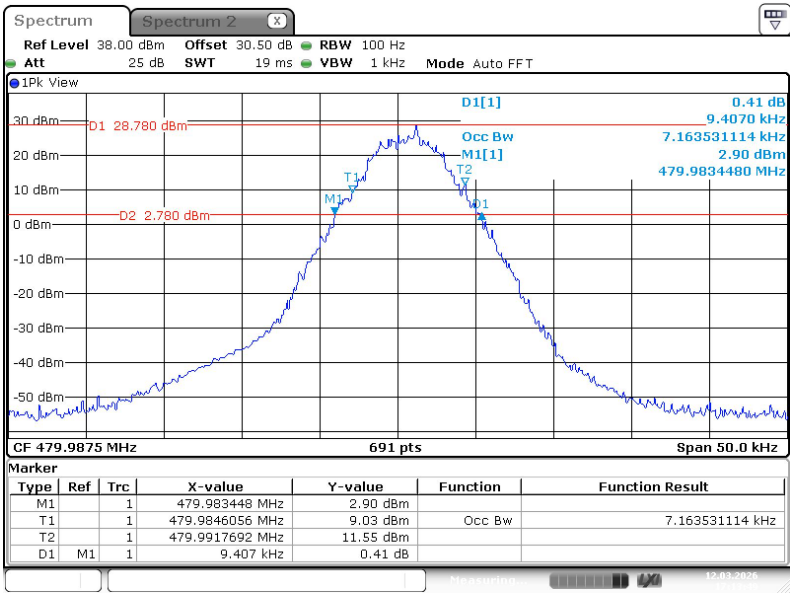
ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 20:16:38

Frequency 479.9875 MHz: Emission Mask D, Low Power



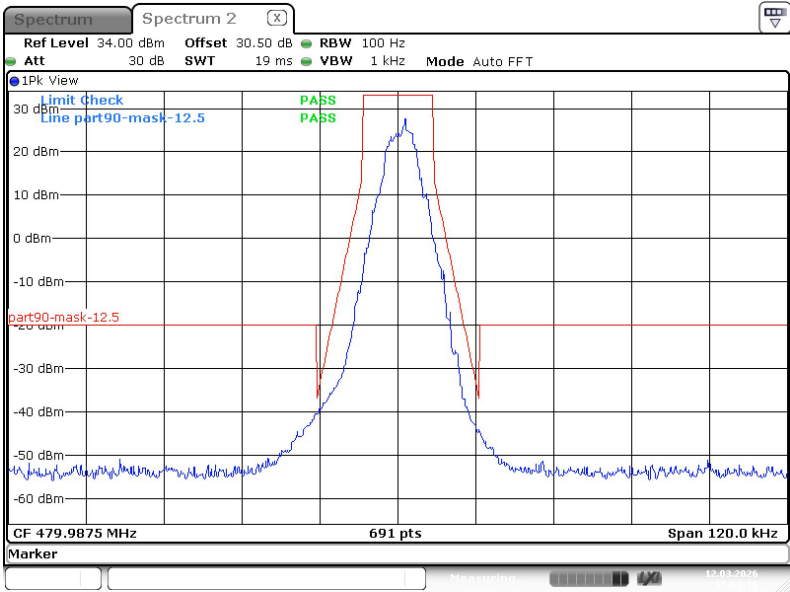
ProjectNo.:2601Q14787E-RFTester:Cheeb Huang
Date: 22.JUN.2026 15:32:54

Frequency 479.9875 MHz: 99% Occupied & 26 dB Bandwidth, High Power



ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 17:13:50

Frequency 479.9875 MHz: Emission Mask D, High Power



ProjectNo.:2601Q14787E-RF Tester:Cheeb Huang
Date: 12.MAR.2026 17:04:17