



FCC PART 90

TEST REPORT

For

Qixiang Electron Science& Technology Co., Ltd

Qixiang Building, Tangxi Industrial Zone, Luojiang, Quanzhou, Fujian, China

FCC ID: T4K-D890UV

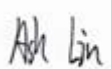
Report Type: Original Report	Product Name: Multi-Protocol Digital+Analog Handheld Radio
Report Number:	2507X13489E-RF-01
Report Date:	2025-10-09
Reviewed By:	Ash Lin 
Approved By:	Miles Chen 
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TABLE OF CONTENTS

REPORT REVISION HISTORY	4
GENERAL INFORMATION.....	5
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
ANTENNA INFORMATION	5
OBJECTIVE	5
TEST METHODOLOGY	6
MEASUREMENT UNCERTAINTY	6
TEST FACILITY	6
SYSTEM TEST CONFIGURATION.....	7
TEST MODE AND VOLTAGE.....	7
TEST FREQUENCY DETAIL	7
DESCRIPTION OF TEST CONFIGURATION	8
SPECIAL ACCESSORIES.....	8
EQUIPMENT MODIFICATIONS	8
SUPPORT EQUIPMENT LIST AND DETAILS	8
BLOCK DIAGRAM OF TEST SETUP	8
SUMMARY OF TEST RESULTS	10
TEST EQUIPMENT LIST	11
FCC §2.1046 & §90.205 RF OUTPUT POWER.....	12
APPLICABLE STANDARD	12
TEST PROCEDURE	12
EUT SETUP BLOCK DIAGRAM	13
TEST DATA	13
FCC §2.1047 - MODULATION CHARACTERISTIC	39
APPLICABLE STANDARD	39
TEST PROCEDURE	39
TEST DATA	40
FCC §2.1049 & §90.209 §90.210- OCCUPIED BANDWIDTH & EMISSION MASK	48
APPLICABLE STANDARD	48
TEST PROCEDURE	49
EUT SETUP BLOCK DIAGRAM	49
TEST DATA	50
FCC § 2.1051 & § 90.210 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS	100
APPLICABLE STANDARD	100
TEST PROCEDURE	100
EUT SETUP BLOCK DIAGRAM	101
TEST DATA	101
FCC §2.1053 & §90.210 - SPURIOUS RADIATED EMISSIONS	138
APPLICABLE STANDARD	138
TEST SETUP	139
TEST PROCEDURE	139
TEST DATA	140
FCC §2.1055 & §90.213 - FREQUENCY STABILITY	153
APPLICABLE STANDARD	153
TEST PROCEDURE	153
EUT SETUP BLOCK DIAGRAM	154

TEST DATA	154
FCC §90.214 - TRANSIENT FREQUENCY BEHAVIOR.....	156
APPLICABLE STANDARD	156
TEST PROCEDURE	156
EUT SETUP BLOCK DIAGRAM	156
TEST DATA	157
EUT PHOTOGRAPHS.....	160
TEST SETUP PHOTOGRAPHS	161

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507X13489E-RF-01	R1V1	2025-10-09	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:		Qixiang Electron Science& Technology Co., Ltd
Product Name:		Multi-Protocol Digital+Analog Handheld Radio
Tested Model:		AT-D890UV
Series Model(s):		AT-D890UVII, AT-D890UV PLUS, AT-D890UV PRO
Trade Mark:		AnyTone
Power Supply:		DC 7.4V from battery or DC 5V from adapter or DC 8.4V from charger
Adapter Information	Model:	LM-603U-050200U02UL
	Input:	AC 100-240V, 50/60Hz, 0.35A
	Output:	DC 5V, 2000mA, 10W
Charger Information	Model:	QBC-45L
	Input:	DC 5V, 2A
	Output:	DC 8.4V, 1A
Rated Output Power:		136-174 MHz: High Power Level: 7W; Low Power Level: 0.3W 400-480 MHz: High Power Level: 6W; Low Power Level: 0.3W
RF Function:		UHF&VHF
Operating Band/Frequency:		136-174MHz, 400-480MHz
Modulation Type:		FM, 4FSK
Channel Separation:		FM: 12.5 kHz 4FSK: 6.25 kHz, 12.5 kHz
<i>Note:</i> 1. The test model is identify with the series model except for the model name, please refer to declaration letter for more detail. 2. All measurement and test data in this report was gathered from production sample serial number: 39MG-6 (Assigned by the BACL (Xiamen). The EUT supplied by the applicant was received on 2025-09-05).		

Antenna Information

Antenna Type	Antenna Connector	input impedance (Ohm)	Antenna Gain /Frequency Range
Whip	SMA	50	2.15 dBi / 136-174, 400-480MHz

Note: The Antenna information is provided by applicant.

Objective

This test report is prepared for *Qixiang Electron Science& Technology Co., Ltd* 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 Part the following individual parts:

Part 90-Private Land Mobile Radio Service

Applicable Standards: ANSI C63.26:2015.

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

Measurement Uncertainty

Item	Ulab
Radiated Spurious power	±3.66dB
Occupied Bandwidth	2%
Transmitter Conducted Power	±1.49dB
Conducted Spurious Emission	±2.92dB
Temperature	±1°C
Humidity	±5%
Voltage (DC)	±0.4%
Frequency Error	0.085×10^6
Audio Frequency/Low Pass Filter Response	3.98%
Modulation Limiting	1.11%
Transient frequency behaviour	±161Hz

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

SYSTEM TEST CONFIGURATION

Test Mode and Voltage

The system was configured for testing in a typical mode (as normally used by a typical user).	
Test mode:	Transmitting
Test voltage:	DC 7.4V from battery

Test Frequency Detail

Per C63.26-2015, section 5.1, the lowest frequency, middle frequency, and highest frequency was performed the test as below:

Modulation/ Channel Bandwidth	Test Channel	Frequency (MHz)	Rule Part
FM 12.5kHz	Lowest	136.0125	For Federal
	Middle	155.7525	For Part 90
	Highest	173.9875	For Federal
	Lowest	400.0125	For Federal
	Middle	453.2125	For Part 90
	Highest	479.9875	For Part 90
4FSK 12.5kHz (DMR)	Lowest	136.0125	For Federal
	Middle	155.7525	For Part 90
	Highest	173.9875	For Federal
	Lowest	400.0125	For Federal
	Middle	453.2125	For Part 90
	Highest	479.9875	For Part 90
4FSK 6.25/12.5kHz (NXDN)	Lowest	136.0125	For Federal
	Middle	155.7525	For Part 90
	Highest	173.9875	For Federal
	Lowest	400.0125	For Federal
	Middle	453.2125	For Part 90
	Highest	479.9875	For Part 90

Description of Test Configuration

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

Special Accessories

No special accessory was used.

Equipment Modifications

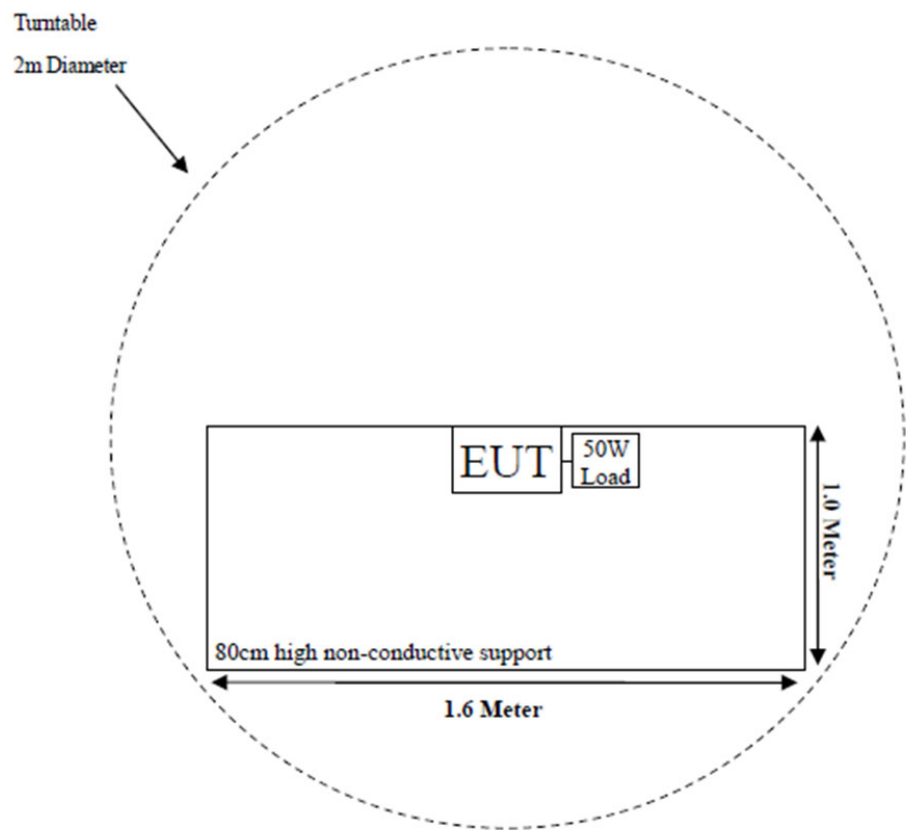
No modification was made to the EUT tested.

Support Equipment List and Details

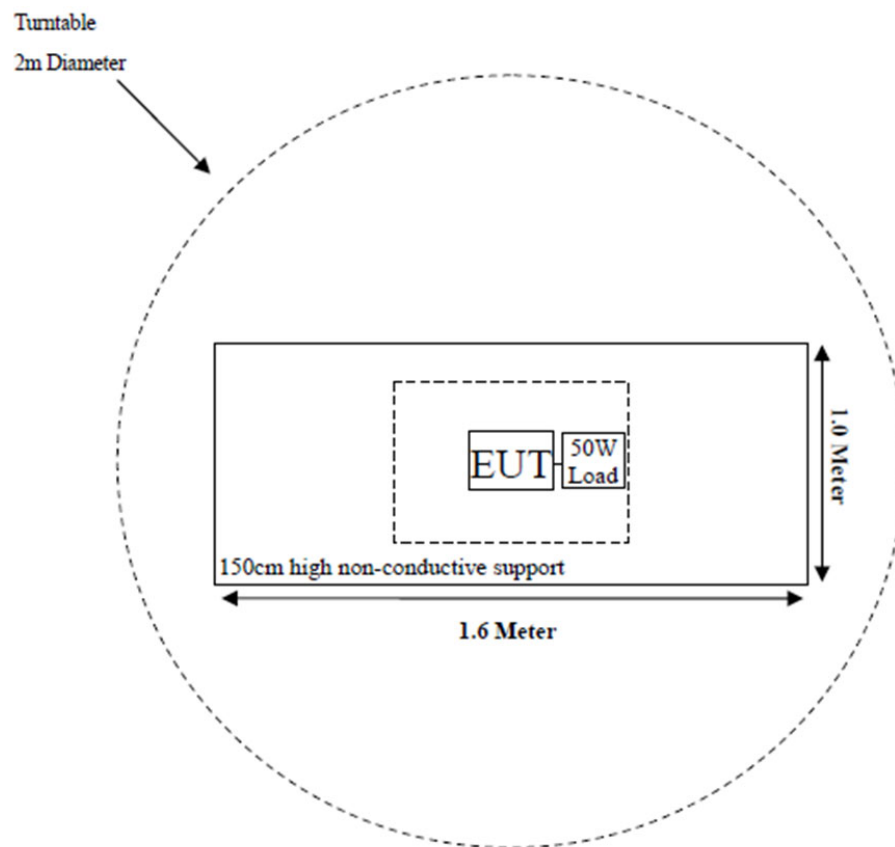
Manufacturer	Description	Model	Serial Number
Unknown	50W load	20230613	121901

Block Diagram of Test Setup

For Radiated Emissions
Below 1GHz:



Above 1 GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§2.1046, §90.205	RF Output Power	Compliant
§2.1047	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

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions					
Hybrid Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
Amplifier	Sonoma	310B	120903	2025/02/20	2026/02/19
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2025/02/20	2026/02/19
Spectrum Analyzer	Rohde & Schwarz	FSU	100405	2025/02/20	2026/02/19
Horn Antenna	EMCO	3115	9002-3355	2024/11/19	2027/11/18
Preamplifier	GLOBAL	1313-A100M18G	4121301	2025/01/16	2026/01/15
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2025/02/20	2026/02/19
Dipole Antenna	EMCO	3121C	9209-860	N/A	N/A
Double Ridge Guide Horn Antenna	A.H.Systems	SAS-571	1980	2023/07/28	2026/07/27
Microwave Analog Signal Generator	Agilent	N5181A	MY48180319	2025/02/20	2026/02/19
RF Conducted Test					
Spectrum Analyzer	Rohde & Schwarz	FSU 26	200199	2025/04/13	2026/04/12
Coaxial Cable	WEIHE	WH316	RFCC002	Each time	Each time
Attenuator	Electronic Corporation	300-WA-FFN-30	1172435	2025/02/20	2026/02/19
DC Power Supply	MAISHENG	MS-606DS	1027453694	N/A	N/A
Multimeter	deli	DL8490	23930192	2025/02/20	2026/02/19
RF Communications test set	HP	8920A	3524A07202	2025/04/13	2026/04/12
constant temperature and humidity testing machine	BACL	BTH-150	30211	2025/02/20	2026/02/19
Spectrum Analyzer	R&S	FSIQ26	831929	2025/02/20	2026/02/19
Audio Analyzer	R&S	UPV	101782	2025/02/20	2026/02/19
2 Way power divider	narda	4426LB-2	1661	Each time	Each time

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

FCC §2.1046 & §90.205 RF OUTPUT POWER

Applicable Standard

FCC § 90.205

(d) 150-174 MHz. (1) The maximum allowable station ERP is dependent upon the station's antenna HAAT and required service area and will be authorized in accordance with table 1. Applicants requesting an ERP in excess of that listed in table 1 must submit an engineering analysis based upon generally accepted engineering practices and standards that includes coverage contours to demonstrate that the requested station parameters will not produce coverage in excess of that which the applicant requires.

(h) 450-470 MHz.

(1) The maximum allowable station effective radiated power (ERP) is dependent upon the station's antenna HAAT and required service area and will be authorized in accordance with table 2. Applicants requesting an ERP in excess of that listed in table 2 must submit an engineering analysis based upon generally accepted engineering practices and standards that includes coverage contours to demonstrate that the requested station parameters will not produce coverage in excess of that which the applicant requires.

(2) Applications for stations where special circumstances exist that make it necessary to deviate from the ERP and antenna heights in Table 2 will be submitted to the frequency coordinator accompanied by a technical analysis, based upon generally accepted engineering practices and standards, that demonstrates that the requested station parameters will not produce a signal strength in excess of 39 dBu at any point along the edge of the requested service area. The coordinator may then recommend any ERP appropriate to meet this condition.

(3) An applicant for a station with a service area radius greater than 32 km (20 mi) must justify the requested service area radius, which may be authorized only in accordance with table 2, note 4. For base stations with service areas greater than 80 km, all operations 80 km or less from the base station will be on a primary basis and all operations outside of 80 km from the base station will be on a secondary basis and will be entitled to no protection from primary operations.

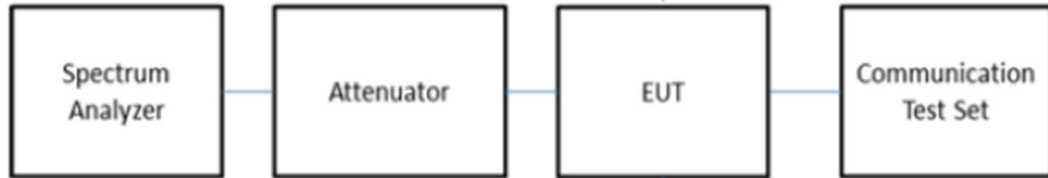
Test Procedure

C63.26-2015, Clause 5.2.3.3

This procedure can be used to measure the peak power in either a CW-like or noise-like narrowband RF signal. The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

- a) Set the RBW $\geq$ OBW.
- b) Set VBW $\geq 3 \times$ RBW.
- c) Set span $\geq 2 \times$ OBW.
- d) Sweep time $\geq 10 \times$ (number of points in sweep) $\times$ (transmission symbol period).
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the peak amplitude level

EUT Setup Block Diagram



Test Data

Test Mode:	Transmitting	Test Engineer:	Lucas Lin
Test Date:	2025-09-17	Test Result:	Compliant

Enviroment Conditions:					
Temperature: (°C)	23.9	Relative Humidity: (%)	53	ATM Pressure: (kPa)	100.1

Please refer to following table.

Modulation Mode	Channel Separation	f _c	High Power Level		Low Power Level	
		MHz	Reading dBm	Limit dBm	Reading dBm	Limit dBm
FM	12.5kHz	136.0125	38.52	39.24	25.41	25.56
		155.7525	38.29	39.24	24.08	25.56
		173.9875	38.24	39.24	24.59	25.56
		400.0125	37.84	38.57	25.29	25.56
		453.2125	37.38	38.57	23.87	25.56
		479.9875	37.39	38.57	24.87	25.56
4FSK (DMR)	12.5kHz	136.0125	38.49	39.24	25.35	25.56
		155.7525	38.27	39.24	24.04	25.56
		173.9875	38.21	39.24	24.51	25.56
		400.0125	37.88	38.57	25.18	25.56
		453.2125	37.34	38.57	23.89	25.56
		479.9875	37.34	38.57	25.09	25.56
4FSK (NXDN)	6.25kHz	136.0125	38.46	39.24	25.38	25.56
		155.7525	38.22	39.24	24.00	25.56
		173.9875	38.13	39.24	24.48	25.56
		400.0125	37.70	38.57	24.95	25.56
		453.2125	37.29	38.57	23.83	25.56
		479.9875	37.28	38.57	24.60	25.56
4FSK (NXDN)	12.5kHz	136.0125	38.48	39.24	25.34	25.56
		155.7525	38.24	39.24	24.04	25.56
		173.9875	38.19	39.24	24.53	25.56
		400.0125	37.75	38.57	25.04	25.56
		453.2125	37.32	38.57	23.92	25.56
		479.9875	37.34	38.57	24.61	25.56

Note:

The output power shall not exceed by more than 20 percent the manufacturer's rated output power for the particular transmitter specifically listed on the authorization.

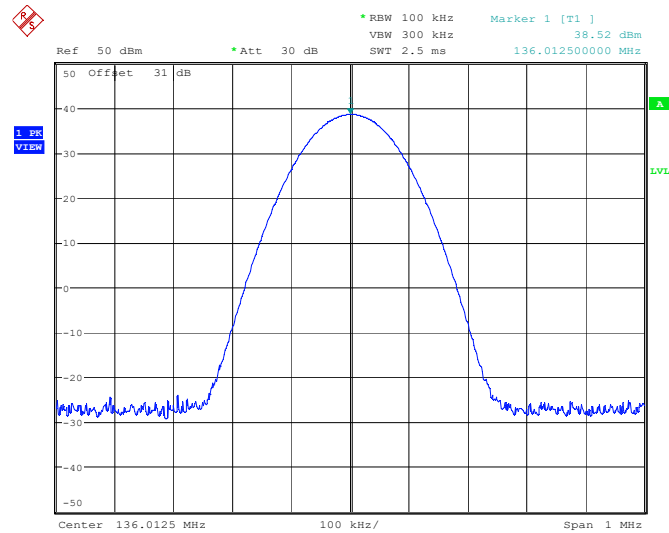
The rated power level is:

VHF: High Power level: 7W (38.45dBm), Low Power Level: 0.3W (24.77dBm);

UHF: High Power level: 6W (37.78dBm), Low Power Level: 0.3W (24.77dBm).

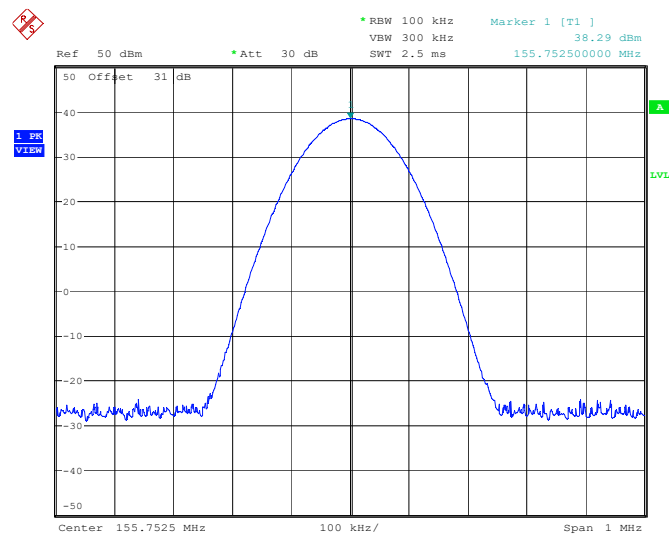
The 31dB is the Insertion loss of the RF cable, Attenuators, which was offset into the Spectrum Analyzer.

High Power - 136.0125MHz (FM 12.5kHz)



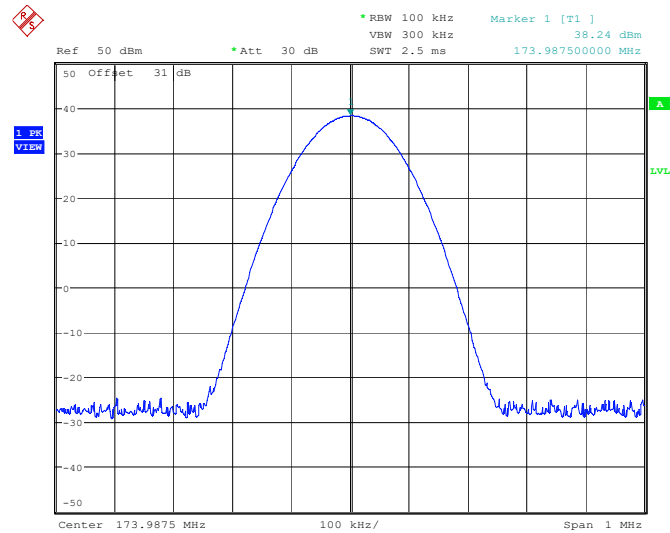
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High Power - 155.7525MHz (FM 12.5kHz)



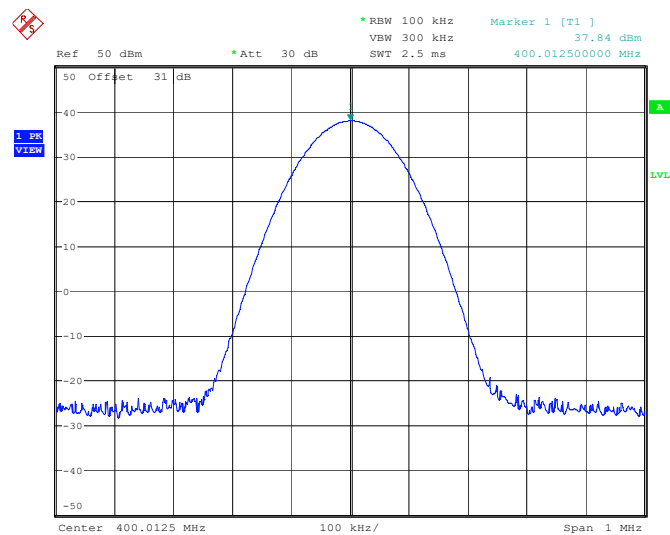
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High Power - 173.9875MHz (FM 12.5kHz)



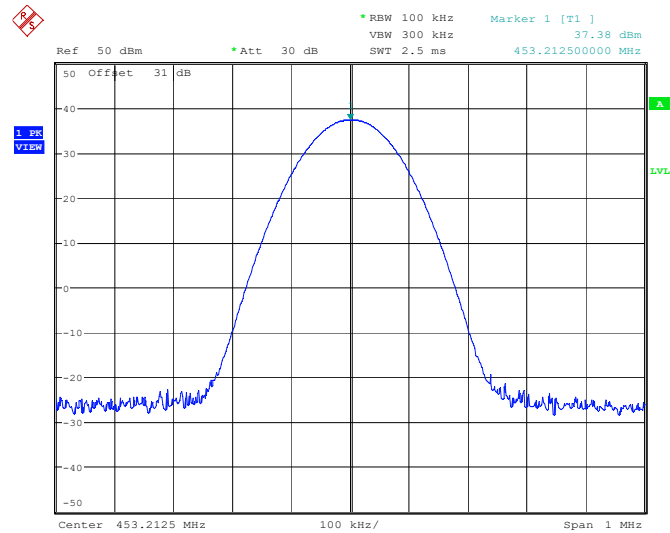
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High Power - 400.0125MHz (FM 12.5kHz)



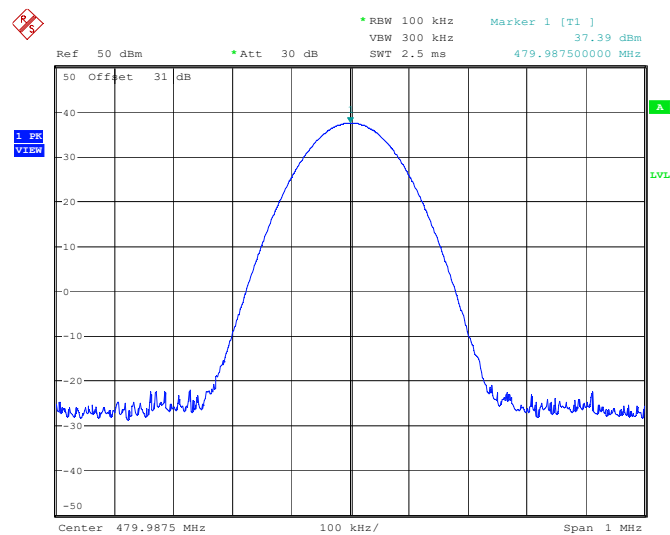
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High Power - 453.2125MHz (FM 12.5kHz)



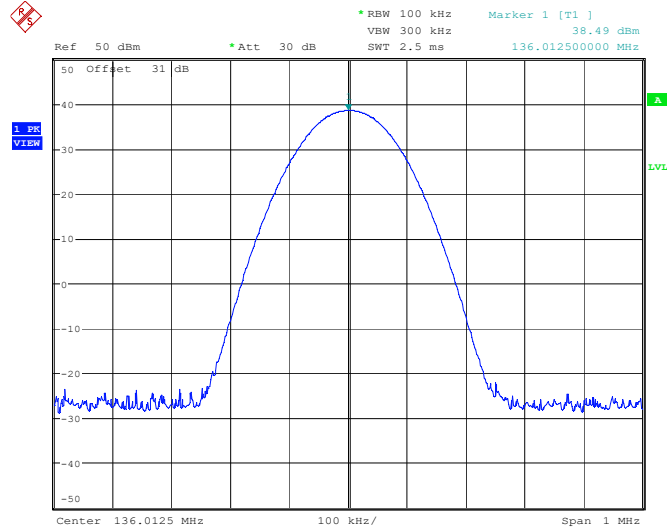
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High Power - 479.9875MHz (FM 12.5kHz)



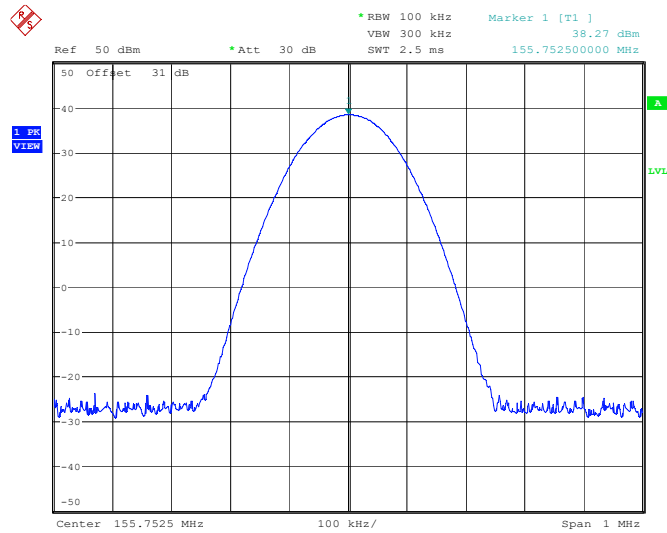
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High Power - 136.0125MHz (4FSK 12.5kHz (DMR))



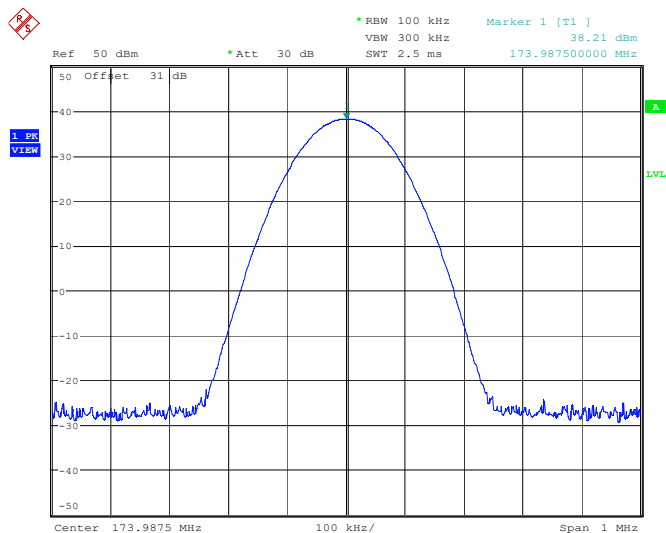
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High Power - 155.7525MHz (4FSK 12.5kHz (DMR))



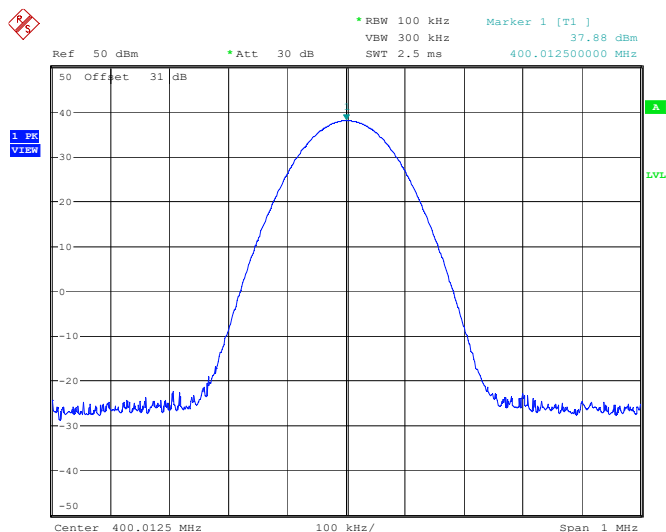
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High Power - 173.9875MHz (4FSK 12.5kHz (DMR))



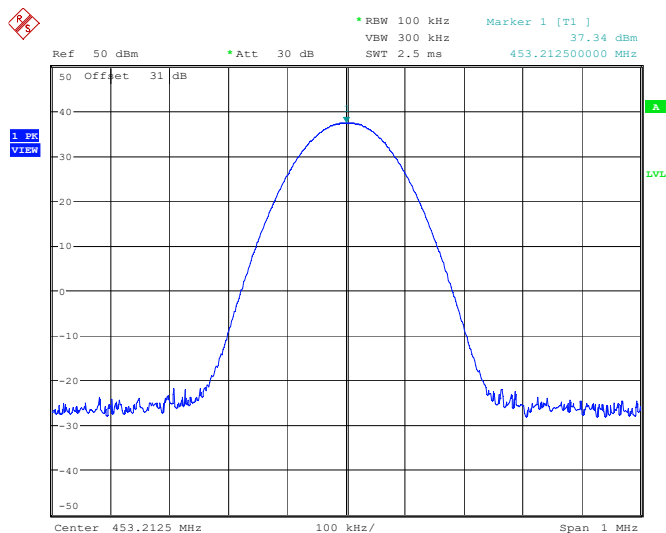
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High Power - 400.0125MHz (4FSK 12.5kHz (DMR))



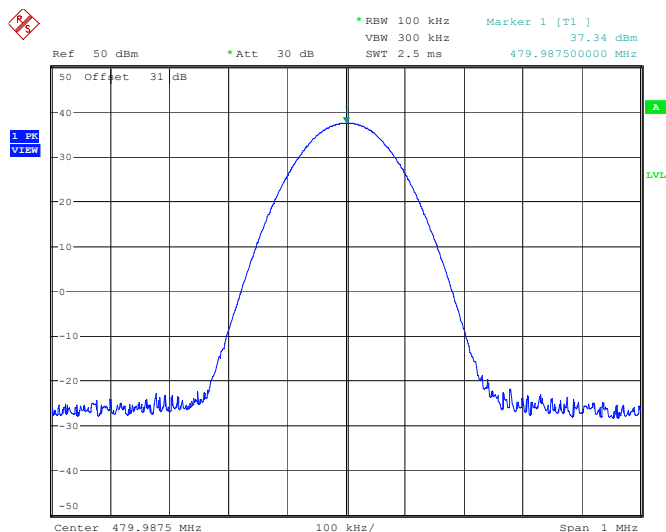
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High Power - 453.2125MHz (4FSK 12.5kHz (DMR))



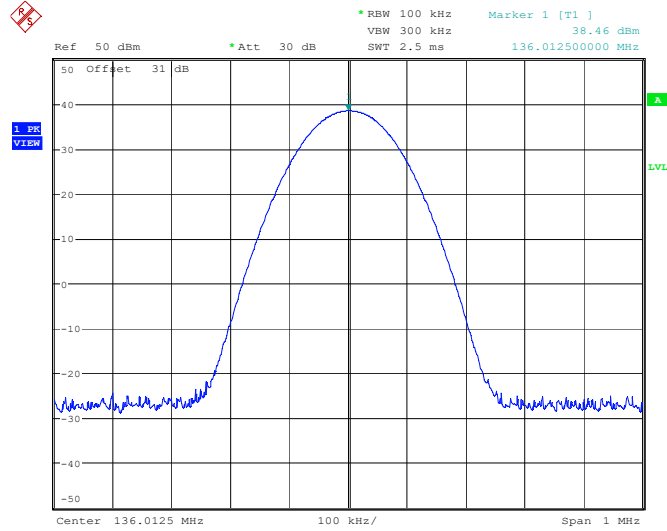
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High Power - 479.9875MHz (4FSK 12.5kHz (DMR))



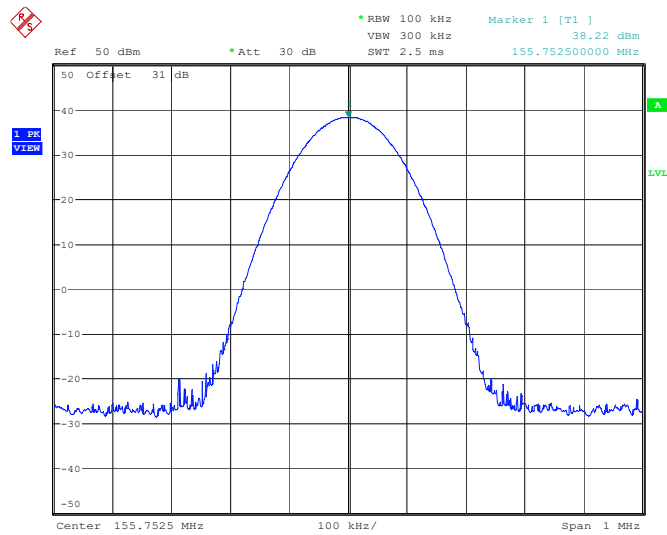
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High Power - 136.0125MHz (4FSK 6.25kHz (NXDN))



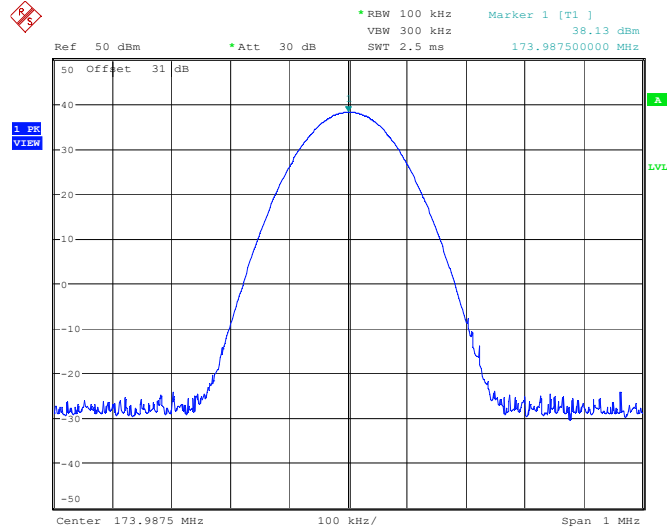
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High Power - 155.7525MHz (4FSK 6.25kHz (NXDN))



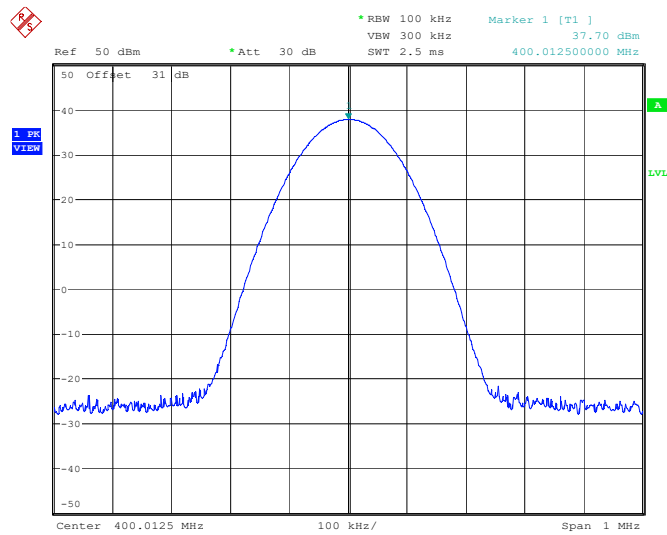
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High Power - 173.9875MHz (4FSK 6.25kHz (NXDN))



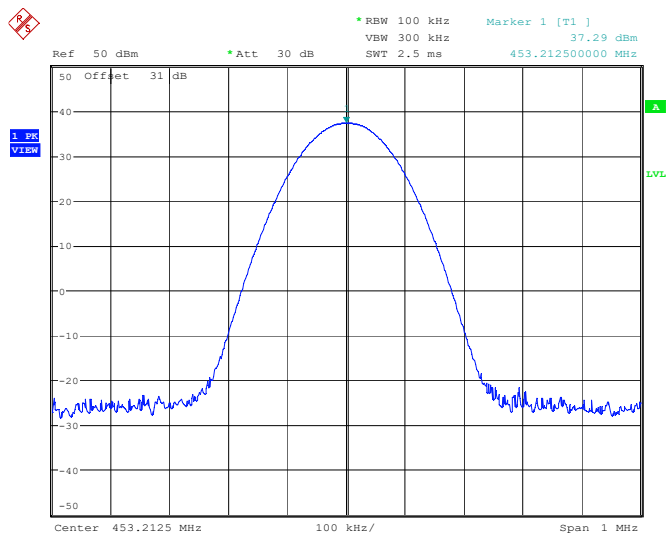
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High Power - 400.0125MHz (4FSK 6.25kHz (NXDN))



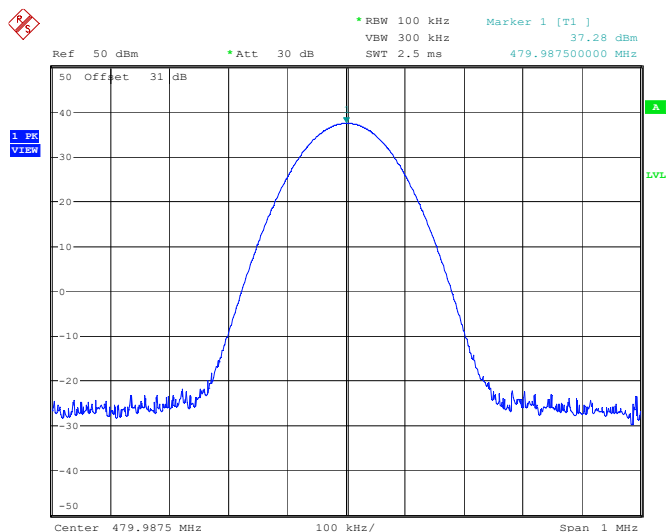
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High Power - 453.2125MHz (4FSK 6.25kHz (NXDN))



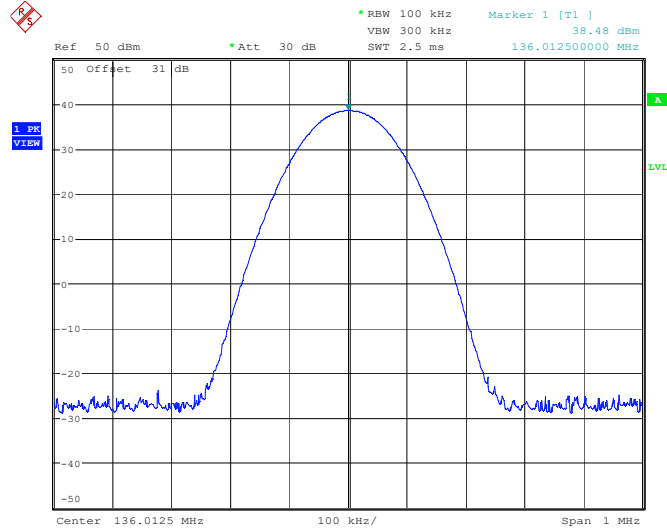
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High Power - 479.9875MHz (4FSK 6.25kHz (NXDN))



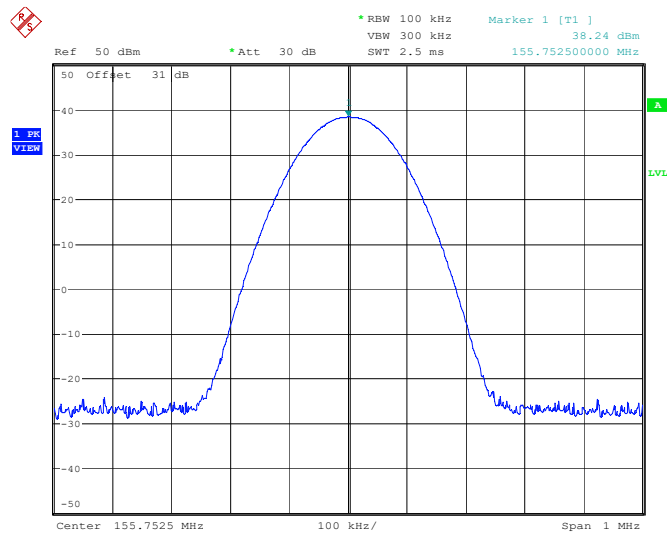
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High Power - 136.0125MHz (4FSK 12.5kHz (NXDN))



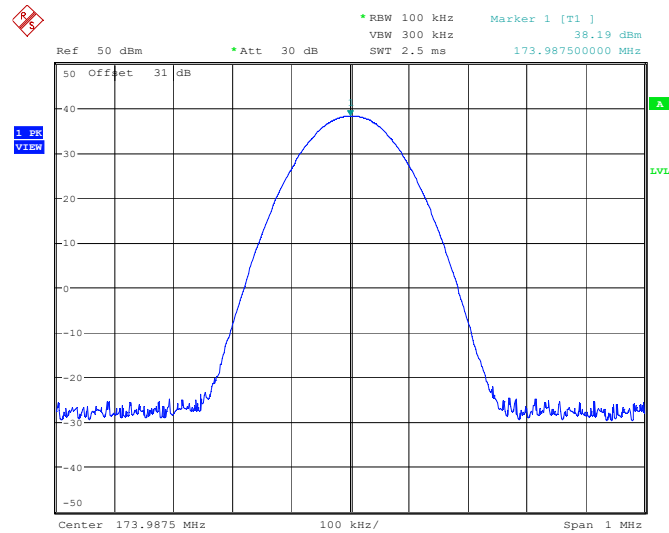
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High Power - 155.7525MHz (4FSK 12.5kHz (NXDN))



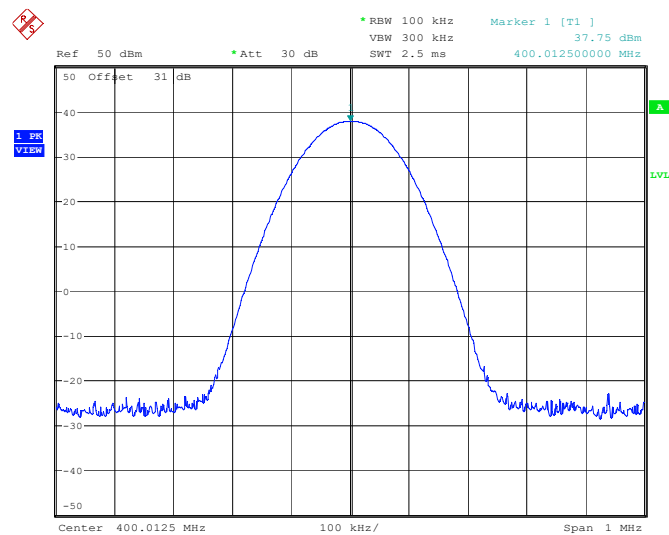
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High Power - 173.9875MHz (4FSK 12.5kHz (NXDN))



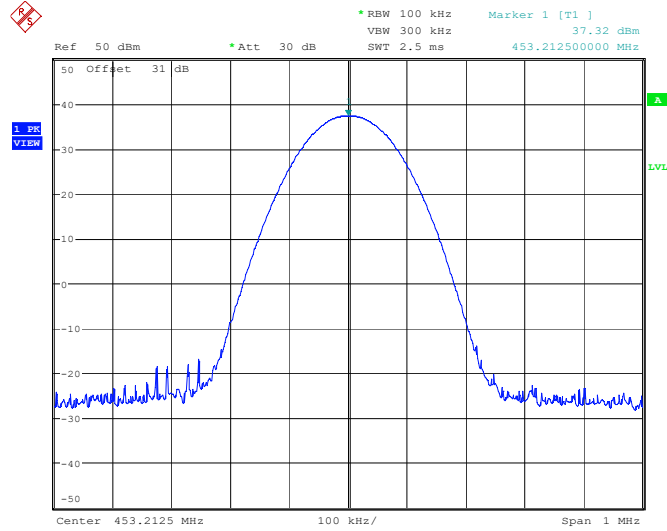
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 17.SEP.2025 19:55:12

High Power - 400.0125MHz (4FSK 12.5kHz (NXDN))



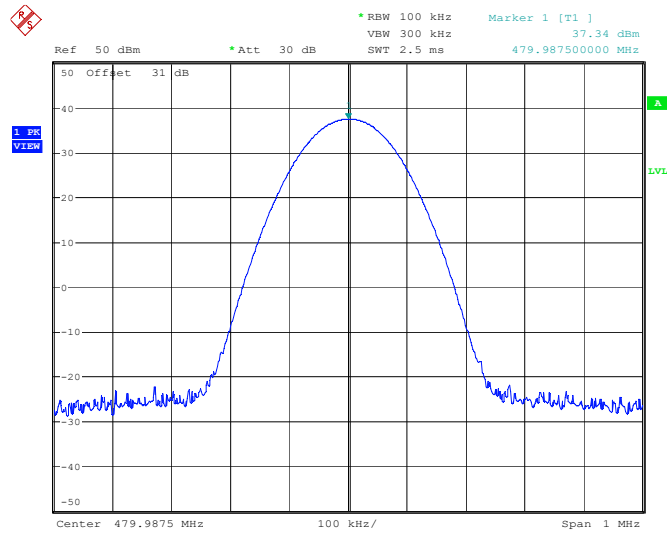
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 17.SEP.2025 19:53:51

High Power - 453.2125MHz (4FSK 12.5kHz (NXDN))



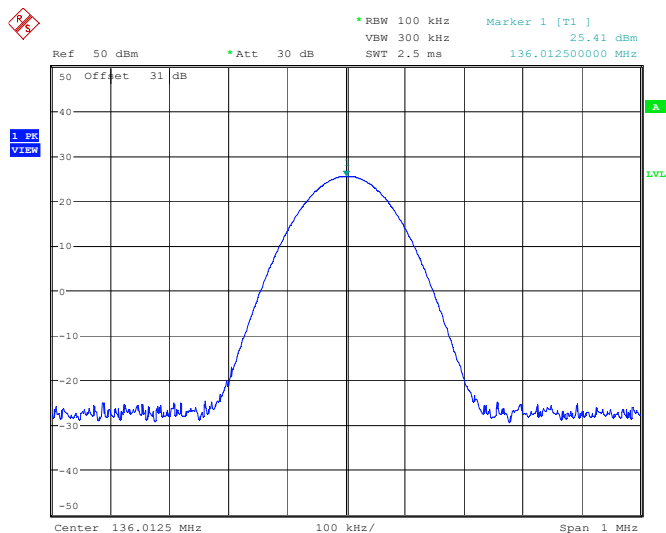
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 17.SEP.2025 19:53:29

High Power - 479.9875MHz (4FSK 12.5kHz (NXDN))



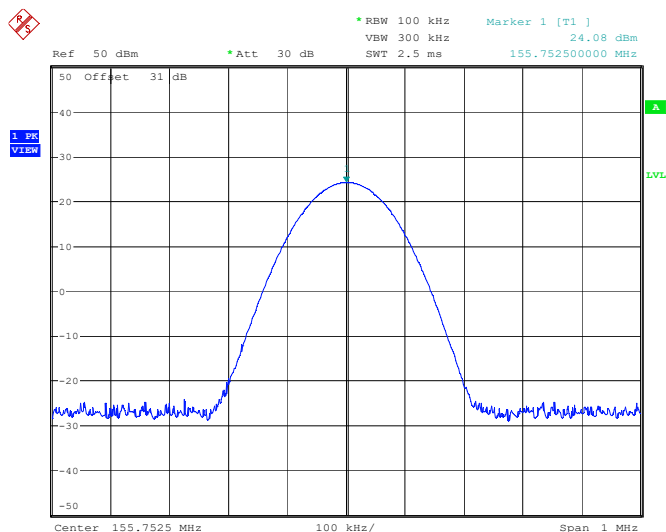
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 17.SEP.2025 19:52:20

Low Power - 136.0125MHz (FM 12.5kHz)



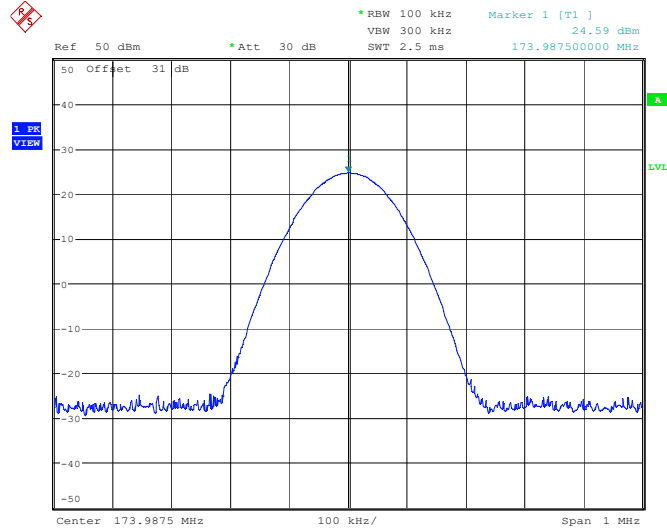
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 19:33:56

Low Power - 155.7525MHz (FM 12.5kHz)



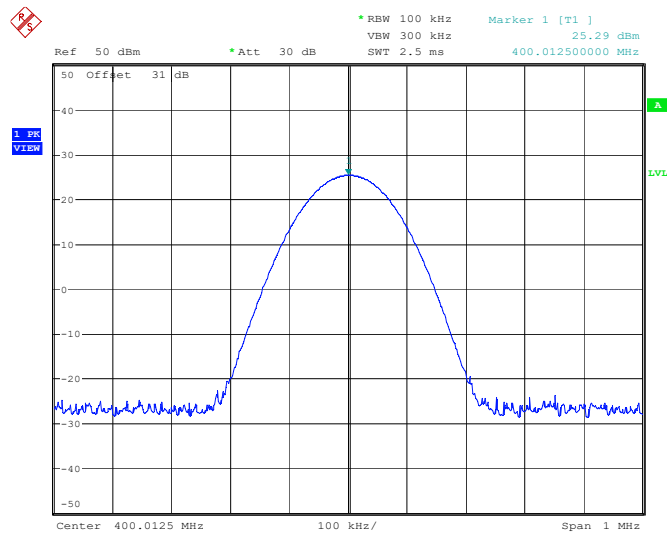
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 19:34:41

Low Power - 173.9875MHz (FM 12.5kHz)



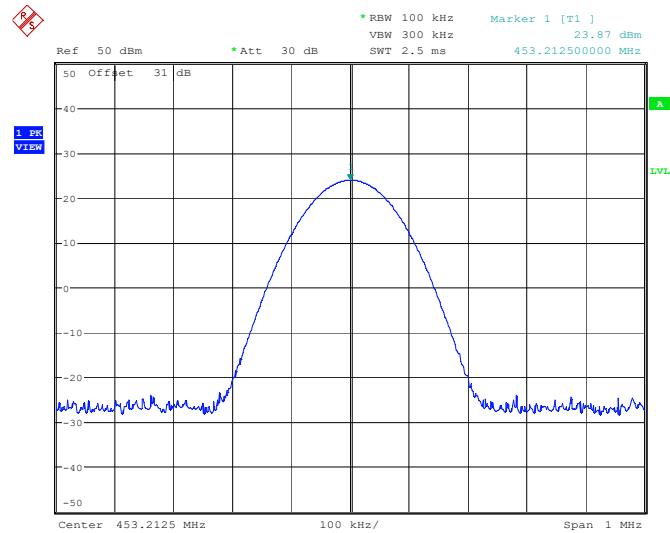
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 19:36:02

Low Power - 400.0125MHz (FM 12.5kHz)



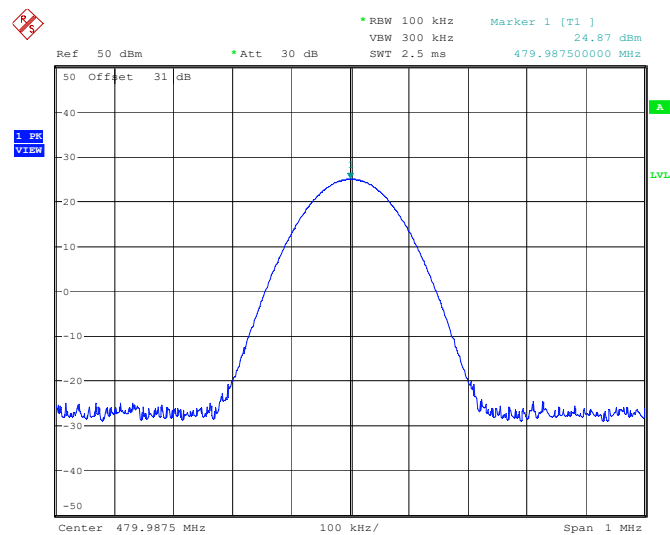
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 19:36:26

Low Power - 453.2125MHz (FM 12.5kHz)



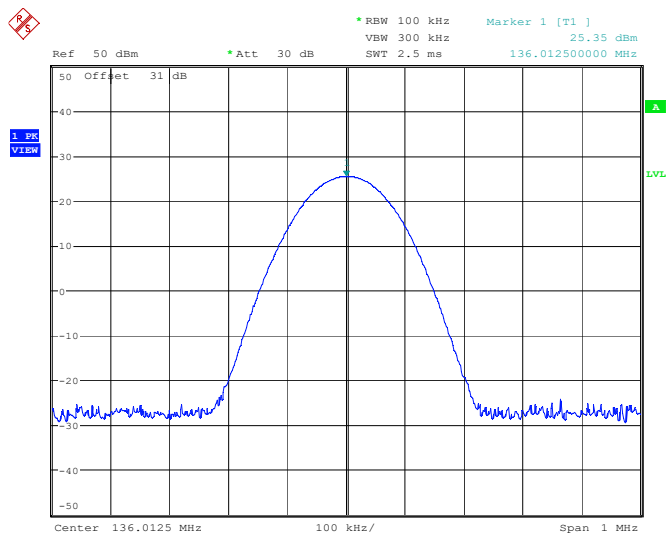
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 17.SEP.2025 19:37:18

Low Power - 479.9875MHz (FM 12.5kHz)



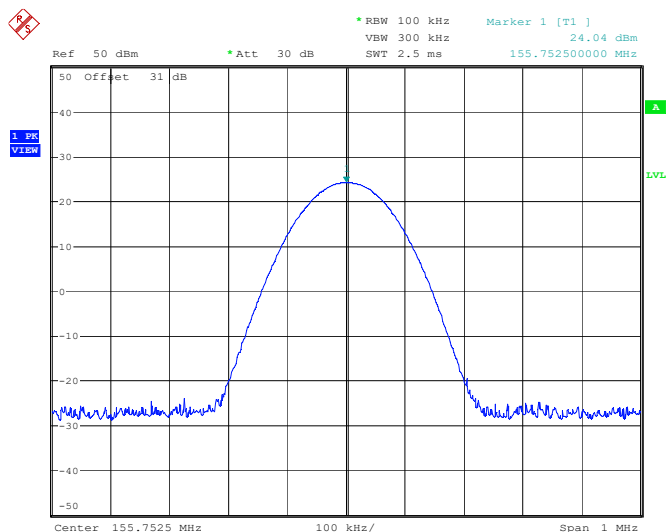
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 17.SEP.2025 19:37:42

Low Power - 136.0125MHz (4FSK 12.5kHz (DMR))



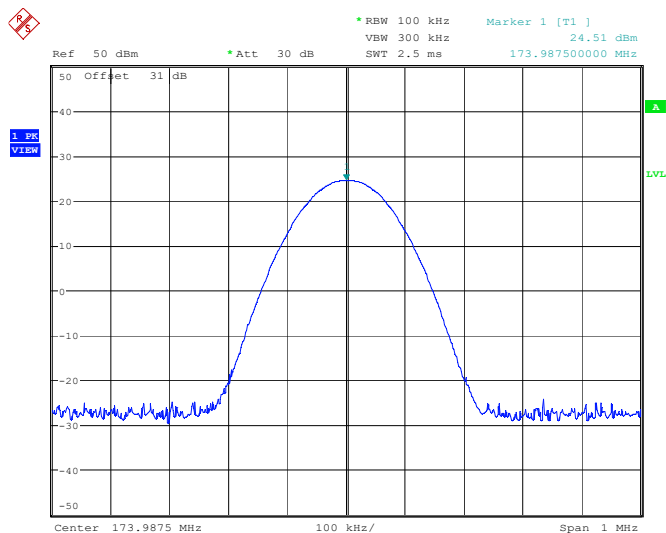
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 19:42:02

Low Power - 155.7525MHz (4FSK 12.5kHz (DMR))



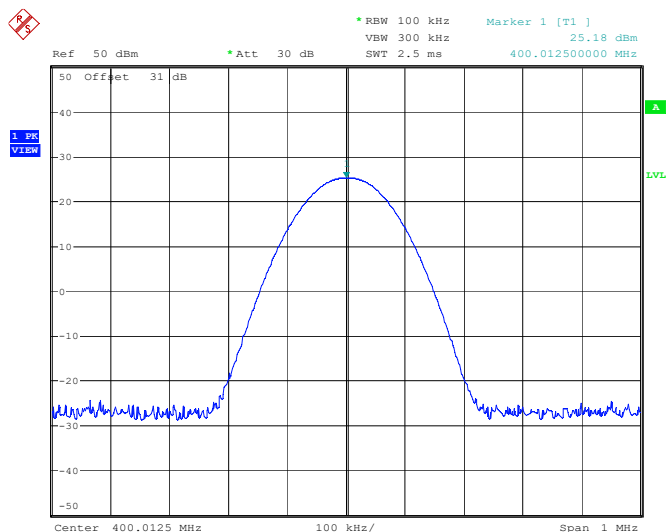
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 19:42:31

Low Power - 173.9875MHz (4FSK 12.5kHz (DMR))



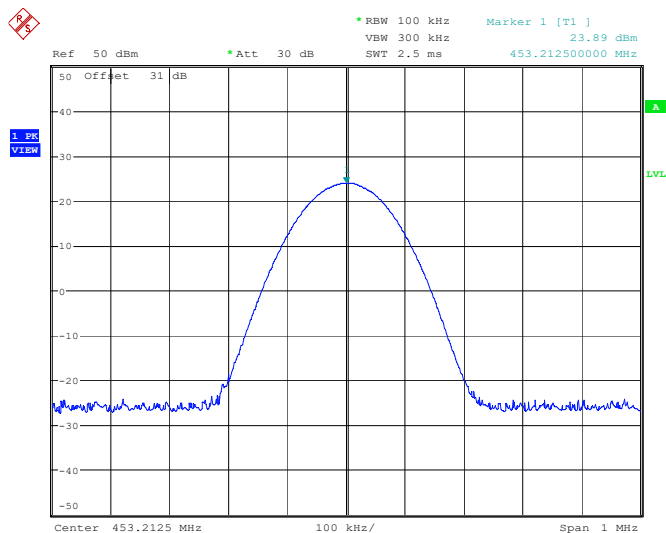
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 19:43:08

Low Power - 400.0125MHz (4FSK 12.5kHz (DMR))



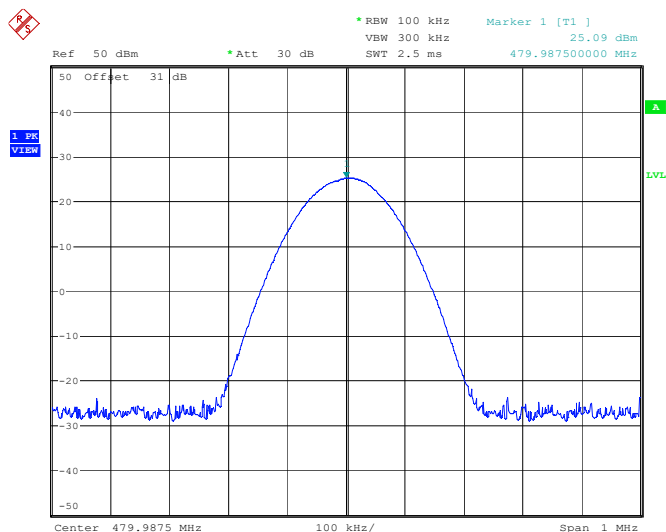
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 19:41:11

Low Power - 453.2125MHz (4FSK 12.5kHz (DMR))



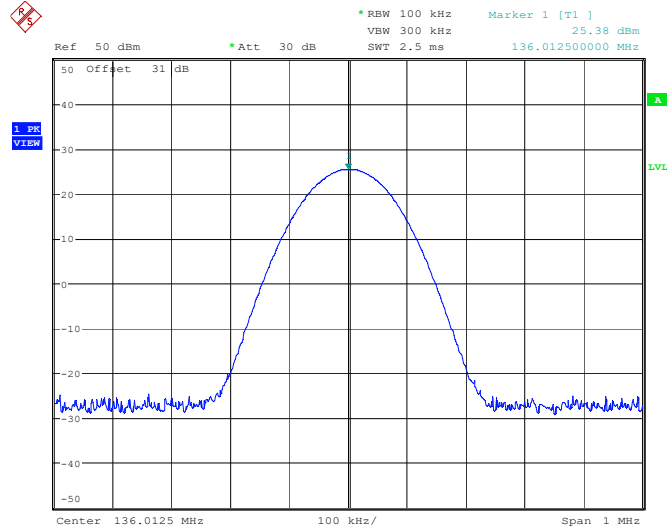
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 19:40:13

Low Power - 479.9875MHz (4FSK 12.5kHz (DMR))



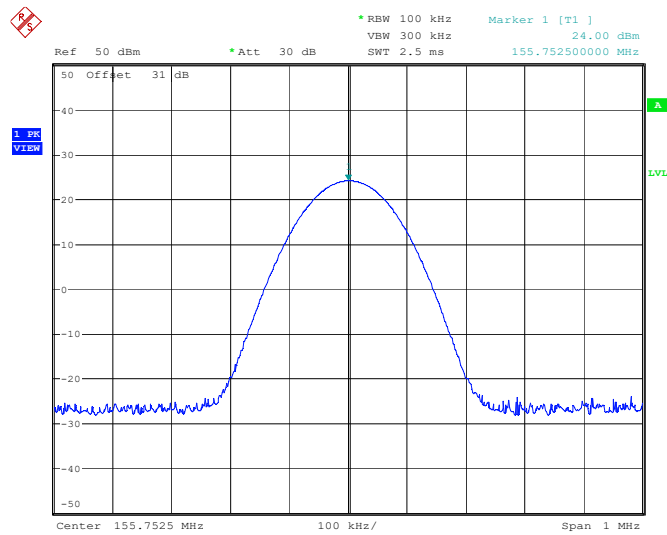
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 19:41:38

Low Power - 136.0125MHz (4FSK 6.25kHz (NXDN))



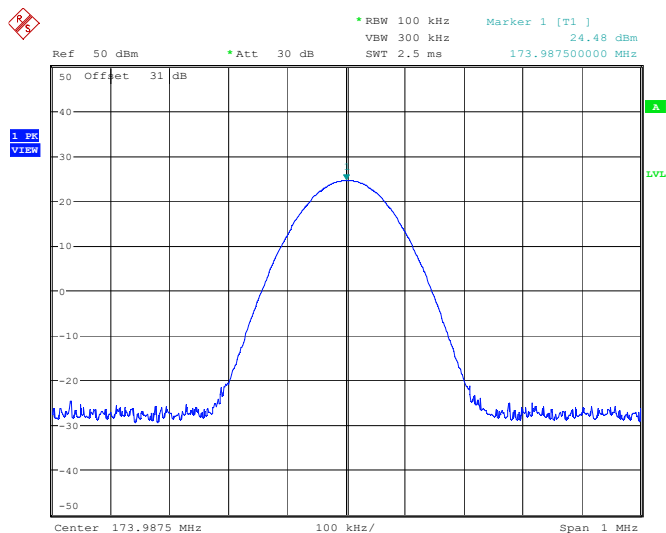
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 20:04:30

Low Power - 155.7525MHz (4FSK 6.25kHz (NXDN))



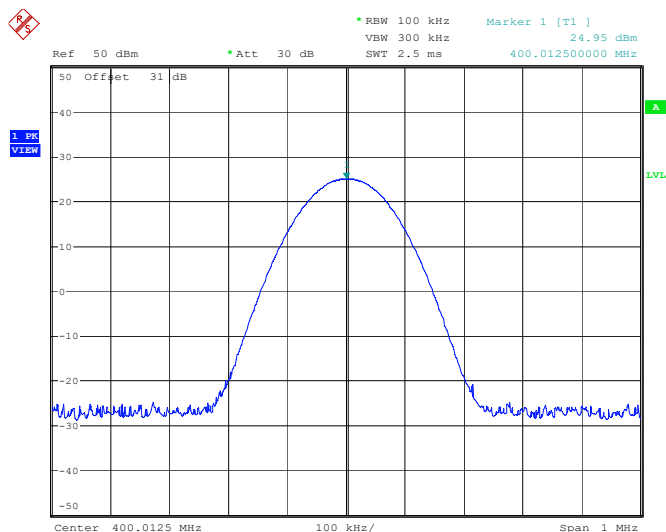
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 20:04:05

Low Power - 173.9875MHz (4FSK 6.25kHz (NXDN))



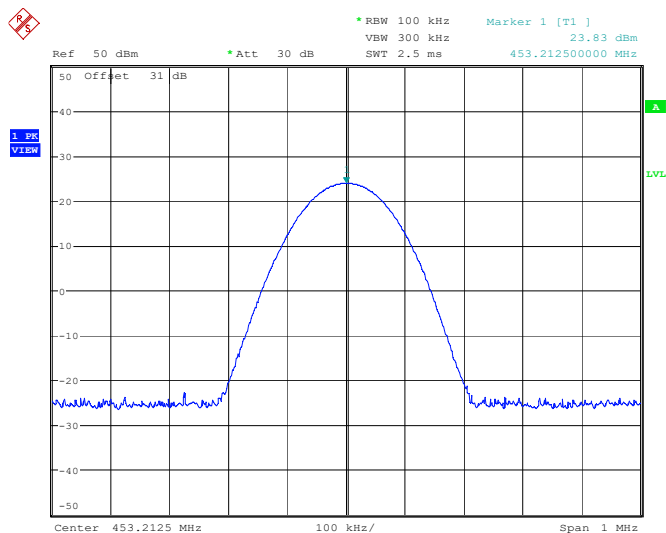
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 20:03:14

Low Power - 400.0125MHz (4FSK 6.25kHz (NXDN))



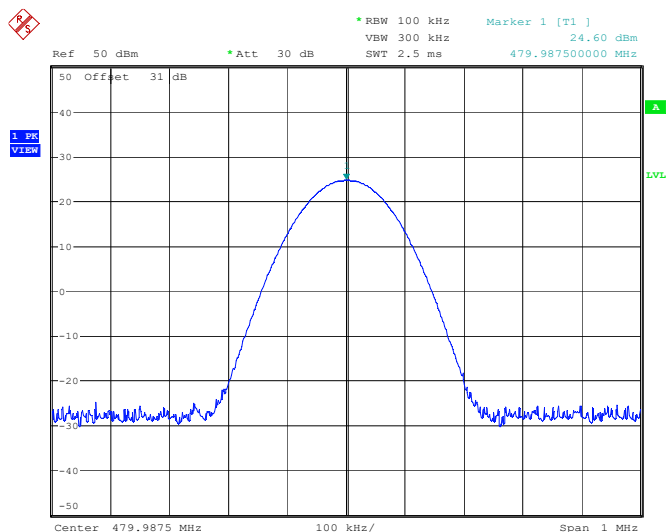
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 20:02:48

Low Power - 453.2125MHz (4FSK 6.25kHz (NXDN))



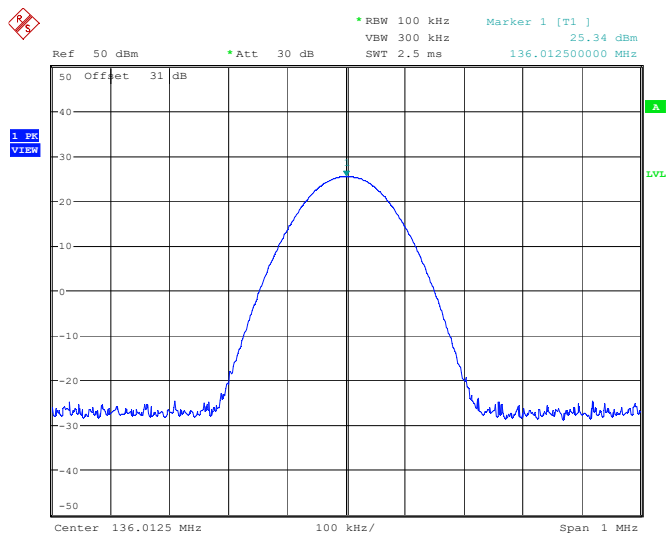
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 20:02:58

Low Power - 479.9875MHz (4FSK 6.25kHz (NXDN))



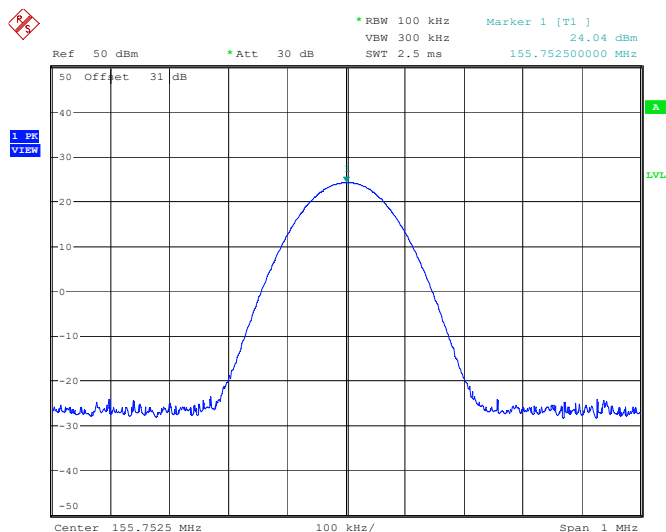
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 20:01:57

Low Power - 136.0125MHz (4FSK 12.5kHz (NXDN))



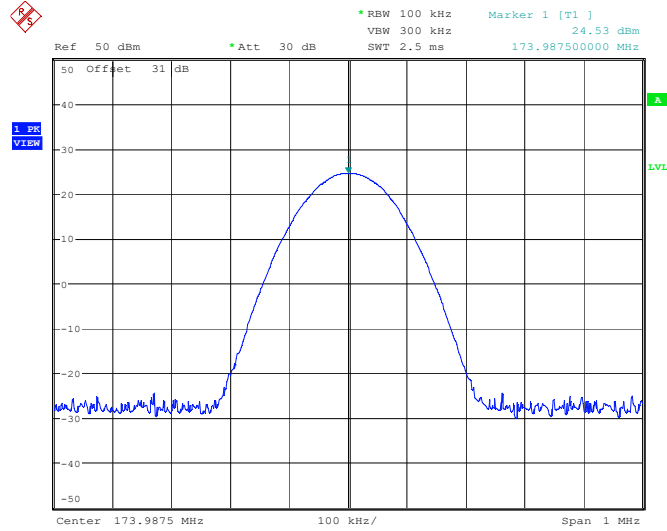
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 19:58:41

Low Power - 155.7525MHz (4FSK 12.5kHz (NXDN))



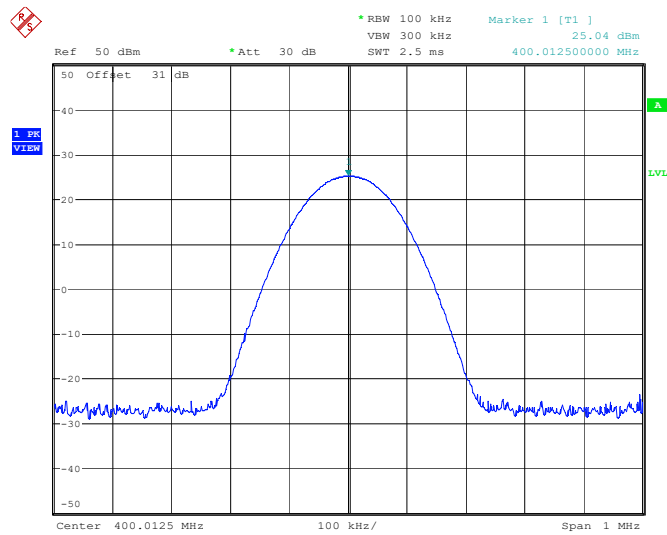
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 17.SEP.2025 19:57:38

Low Power - 173.9875MHz (4FSK 12.5kHz (NXDN))



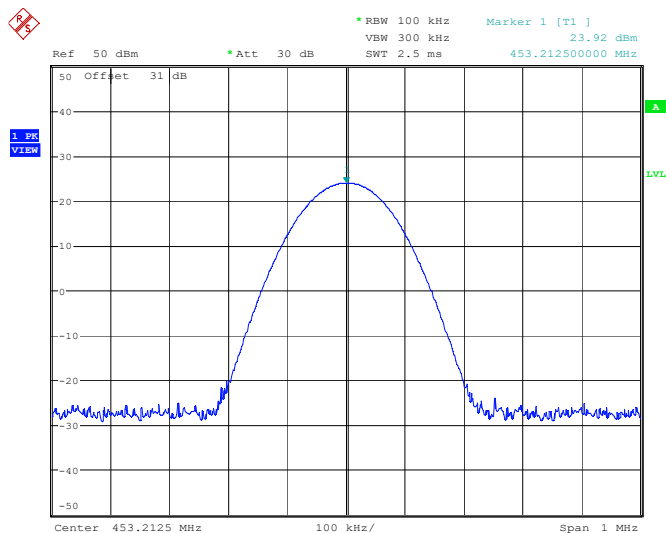
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 17.SEP.2025 19:57:03

Low Power - 400.0125MHz (4FSK 12.5kHz (NXDN))



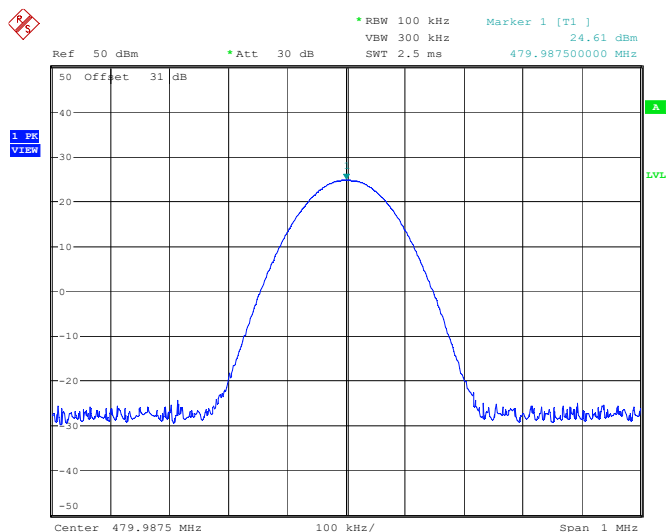
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 17.SEP.2025 20:00:45

Low Power - 453.2125MHz (4FSK 12.5kHz (NXDN))



Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 17.SEP.2025 20:01:15

Low Power - 479.9875MHz (4FSK 12.5kHz (NXDN))



Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 17.SEP.2025 20:01:33

FCC §2.1047 - MODULATION CHARACTERISTIC

Applicable Standard

FCC §2.1047

(a) Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted. For equipment required to have an audio low-pass filter, a curve showing the frequency response of the filter, or of all circuitry installed between the modulation limiter and the modulated stage shall be submitted.

(b) Equipment which employs modulation limiting. A curve or family of curves showing the percentage of modulation versus the modulation input voltage shall be supplied. The information submitted shall be sufficient to show modulation limiting capability throughout the range of modulating frequencies and input modulating signal levels employed.

(c) Single sideband and independent sideband radiotelephone transmitters which employ a device or circuit to limit peak envelope power. A curve showing the peak envelope power output versus the modulation input voltage shall be supplied. The modulating signals shall be the same in frequency as specified in paragraph (c) of §2.1049 for the occupied bandwidth tests.

(d) Other types of equipment. A curve or equivalent data which shows that the equipment will meet the modulation requirements of the rules under which the equipment is to be licensed.

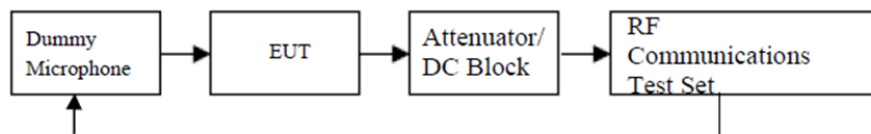
Test Procedure

According to ANSI C63.26-2015 Section 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.

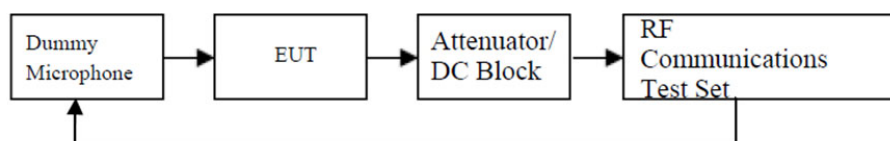
- Connect the equipment as illustrated in Figure 1.
- Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- Set the test receiver to measure peak positive deviation. Set the audio bandwidth for ≤ 0.25 Hz to ≥ 15000 Hz. Turn the de-emphasis function off.
- Apply a 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.
- 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.
- 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).
- Set the test receiver to measure peak negative deviation and repeat step d) through step f).
- The values recorded in step f) and step g) are the modulation limiting.
- Plot the data set as a percentage of deviation relative to the 0 dB reference point versus input voltage.



According to ANSI C63.26-2015 Section 5.3.3:

Audio frequency response test methodology—Constant Input

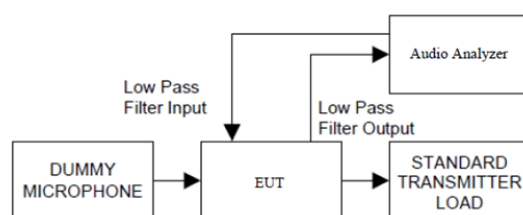
- Connect the equipment as illustrated in Figure 3.
- Set the test receiver to measure peak positive deviation. Set the audio bandwidth for ≤ 50 Hz to ≥ 15 000Hz. Turn the de-emphasis function off.
- Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- Apply a 1000 Hz tone and adjust the audio frequency generator to produce 20% of the rated system deviation.
- Set the test receiver to measure rms deviation and record the deviation reading as DEVREF.
- Set the audio frequency generator to the desired test frequency between 300 Hz and 3000 Hz.



According to ANSI/TIA 603-E-2016 Section 2.2.15:

Audio Low Pass Filter Response

- Connect the equipment as illustrated.
- Connect the Audio Generator as close as possible the input of the post limiter low pass filter within the transmitter under test.
- Connect the RF Communications Test Set 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 RF Communications Test Set as LEV_{REF} .
- Set the audio frequency generator to the desired test frequency between 3000 Hz and the upper low pass filter limit.
- Record RF Communications Test Set levels, at the test frequency in step f).
- Record the dB level on the RF Communications Test Set as LEV_{FREQ} .



Test Data

Test Mode:	Transmitting	Test Engineer:	Lucas Lin
Test Date:	2025-09-23	Test Result:	Compliant

Enviroment Conditions:					
Temperature: (°C)	24.2	Relative Humidity: (%)	56	ATM Pressure: (kPa)	100.2

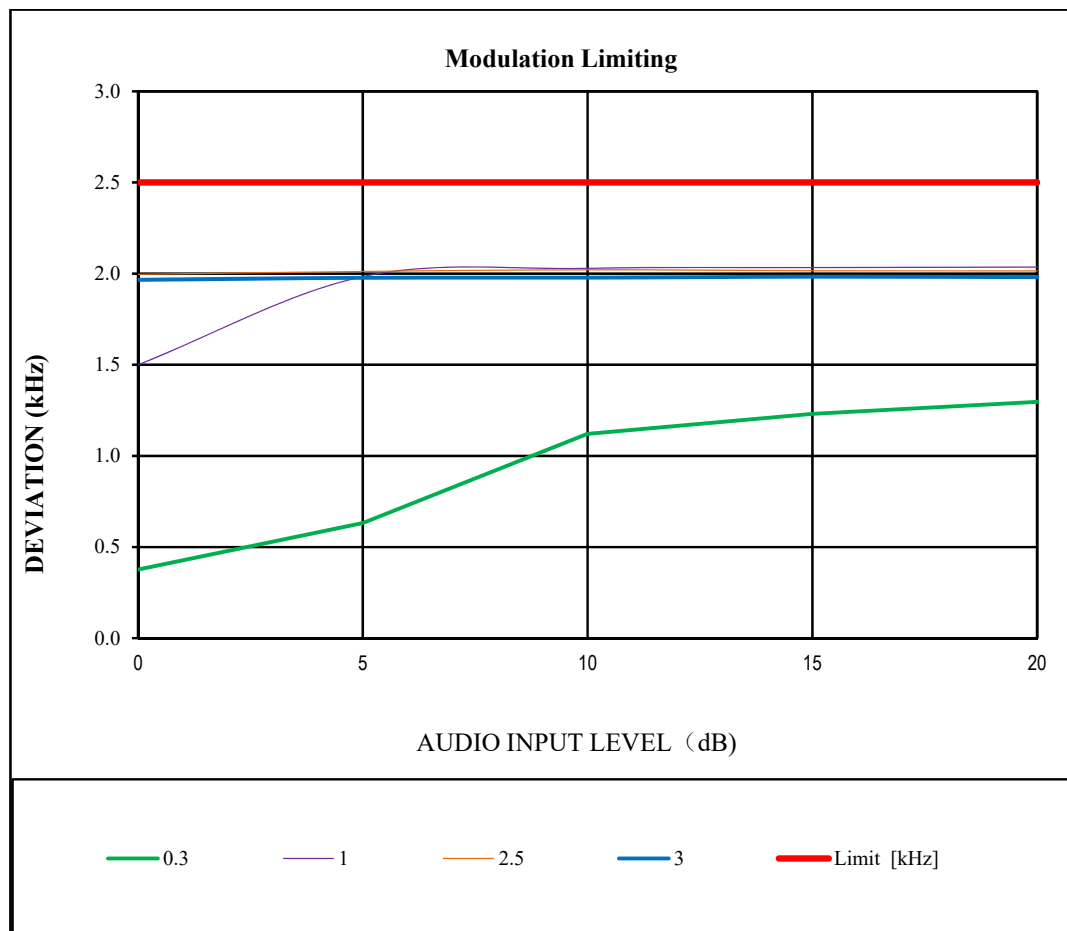
Note: Test was only performed at high power level.

Please refer to below table:

Modulation Limiting

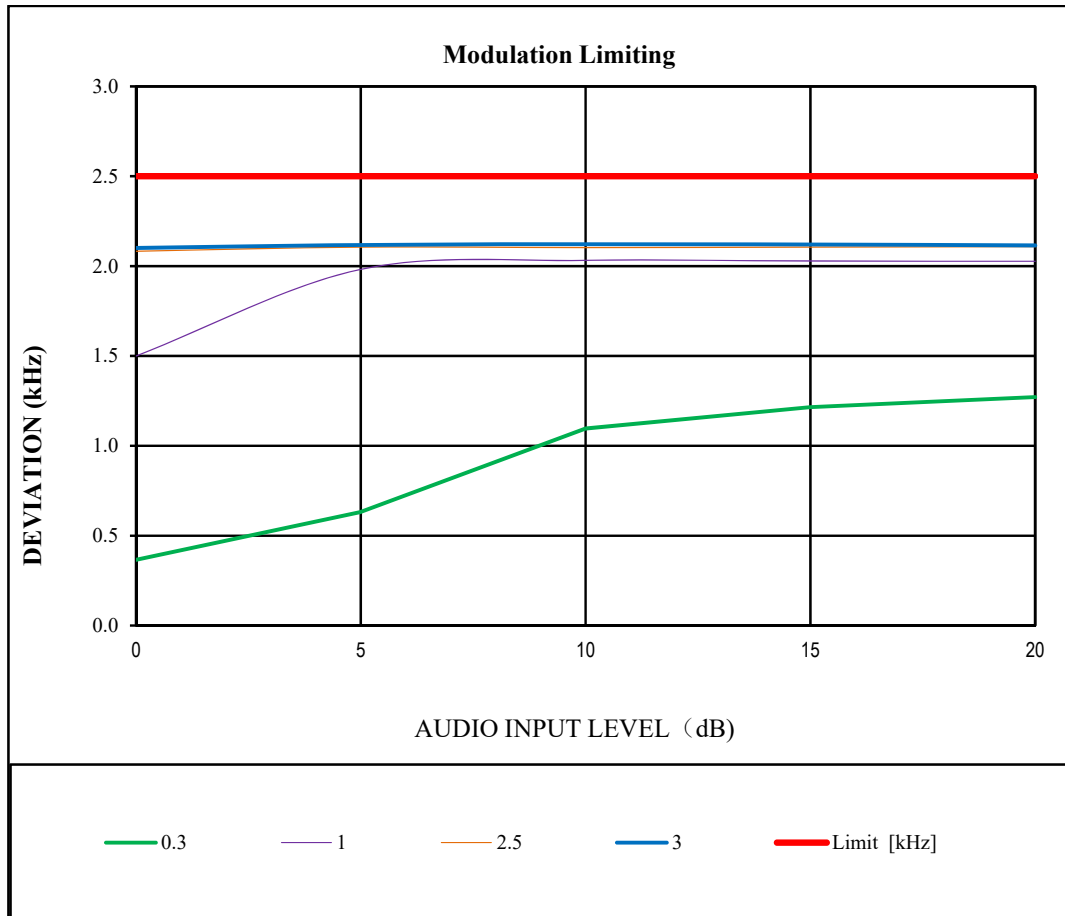
PK+

FM 12.5kHz	Carrier Frequency: 155.7525MHz				
Audio Input Level (dB)	Deviation (kHz)				Limit (kHz)
	0.3	1.0	2.5	3.0	
20	1.296	2.036	2.015	1.981	2.5
15	1.231	2.033	2.016	1.983	2.5
10	1.121	2.029	2.021	1.978	2.5
5	0.632	1.984	2.012	1.977	2.5
0	0.377	1.500	1.996	1.966	2.5



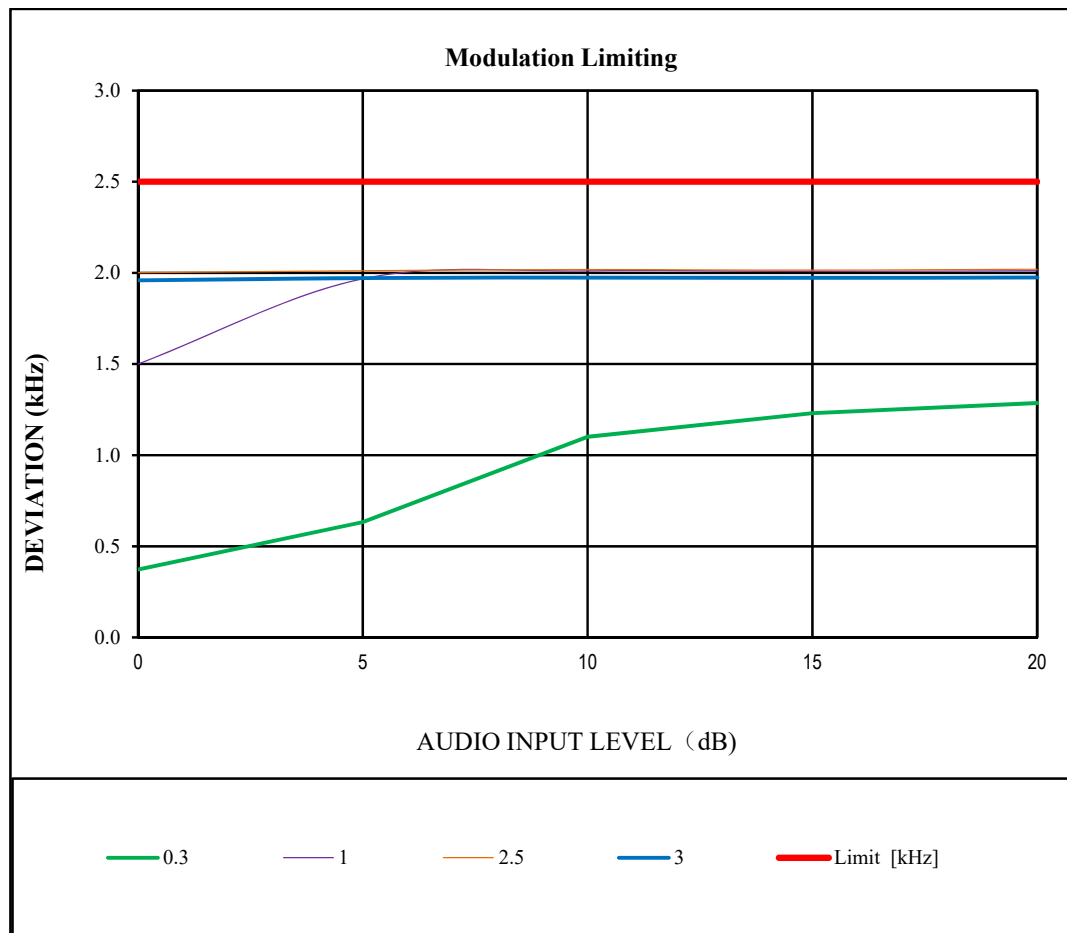
PK-

FM 12.5kHz	Carrier Frequency: 155.7525MHz				
Audio Input Level (dB)	Deviation (kHz)				Limit (kHz)
	0.3	1.0	2.5	3.0	
20	1.271	2.027	2.108	2.115	2.5
15	1.215	2.028	2.106	2.121	2.5
10	1.096	2.032	2.103	2.122	2.5
5	0.632	1.982	2.106	2.118	2.5
0	0.365	1.500	2.083	2.101	2.5



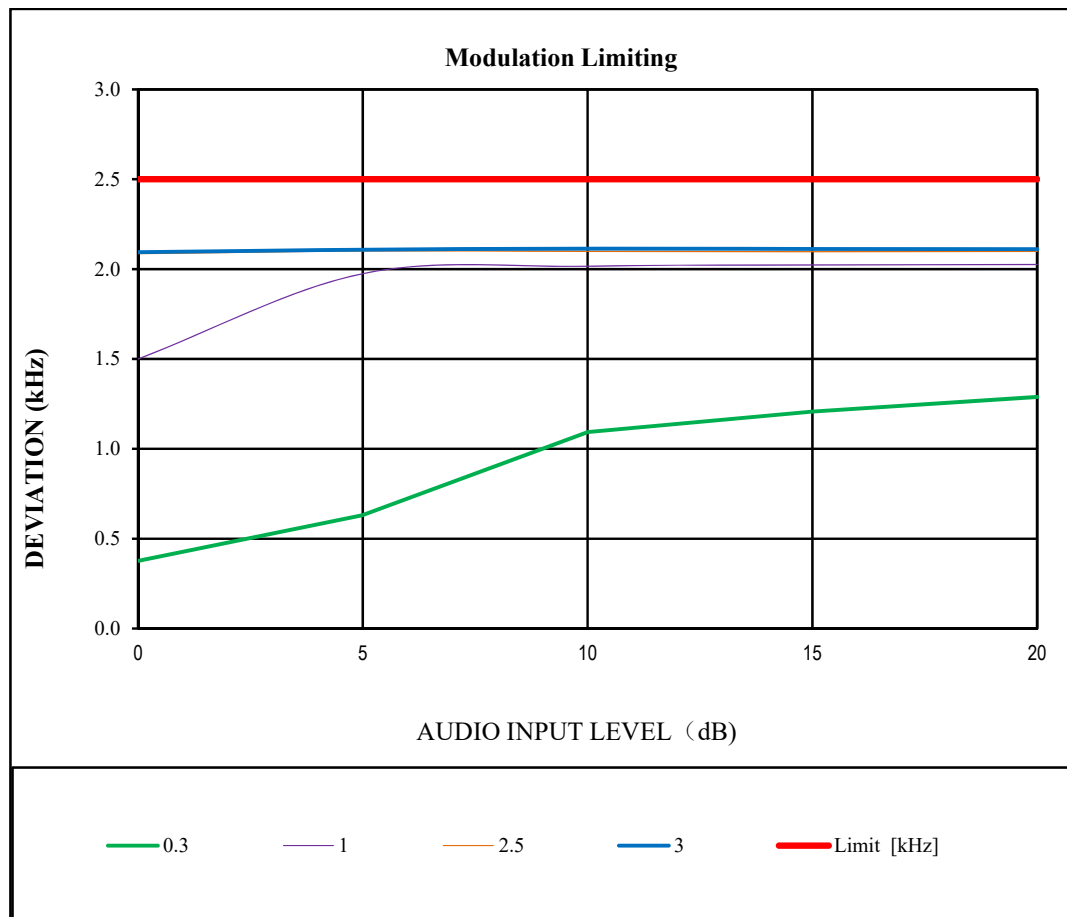
PK+

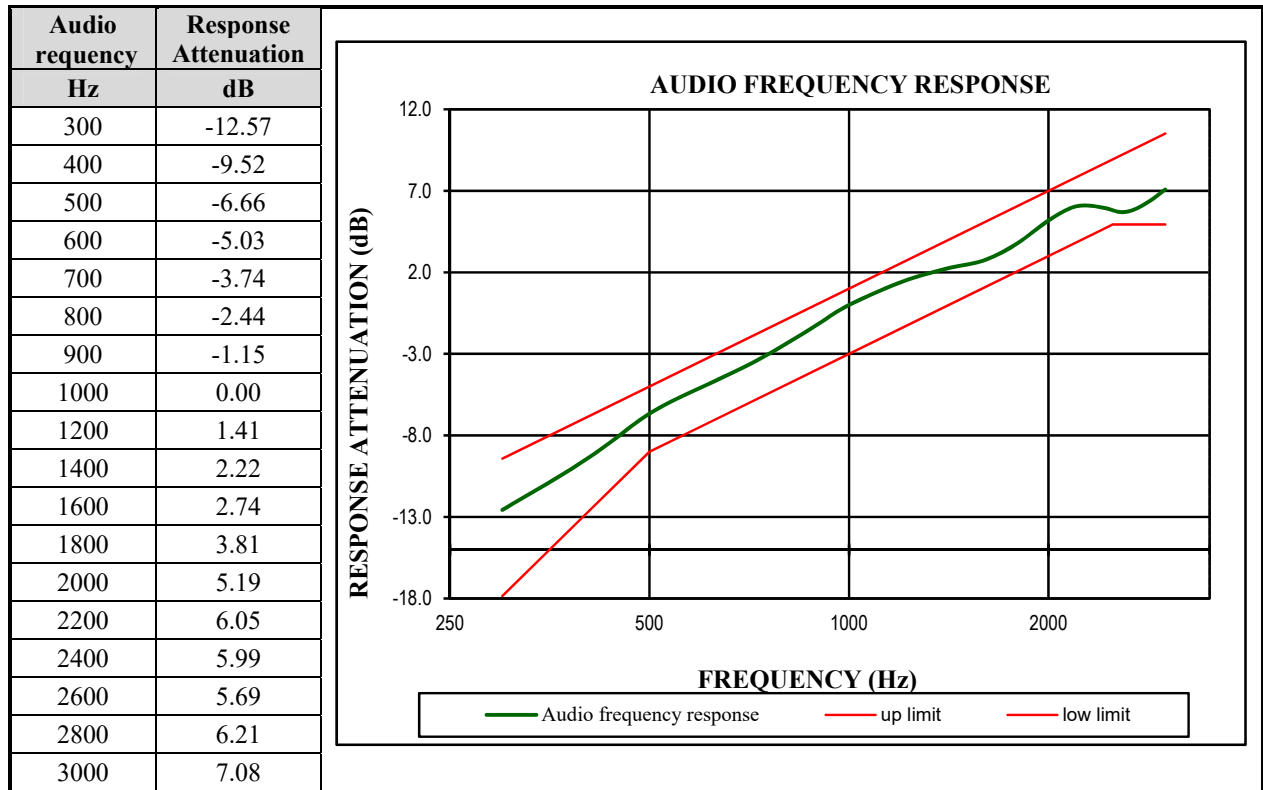
FM 12.5kHz	Carrier Frequency: 453.2125MHz				
Audio Input Level (dB)	Deviation (kHz)				Limit (kHz)
	0.3	1.0	2.5	3.0	
20	1.286	2.012	2.020	1.975	2.5
15	1.231	2.008	2.015	1.972	2.5
10	1.101	2.011	2.018	1.975	2.5
5	0.633	1.968	2.012	1.971	2.5
0	0.373	1.500	2.001	1.959	2.5



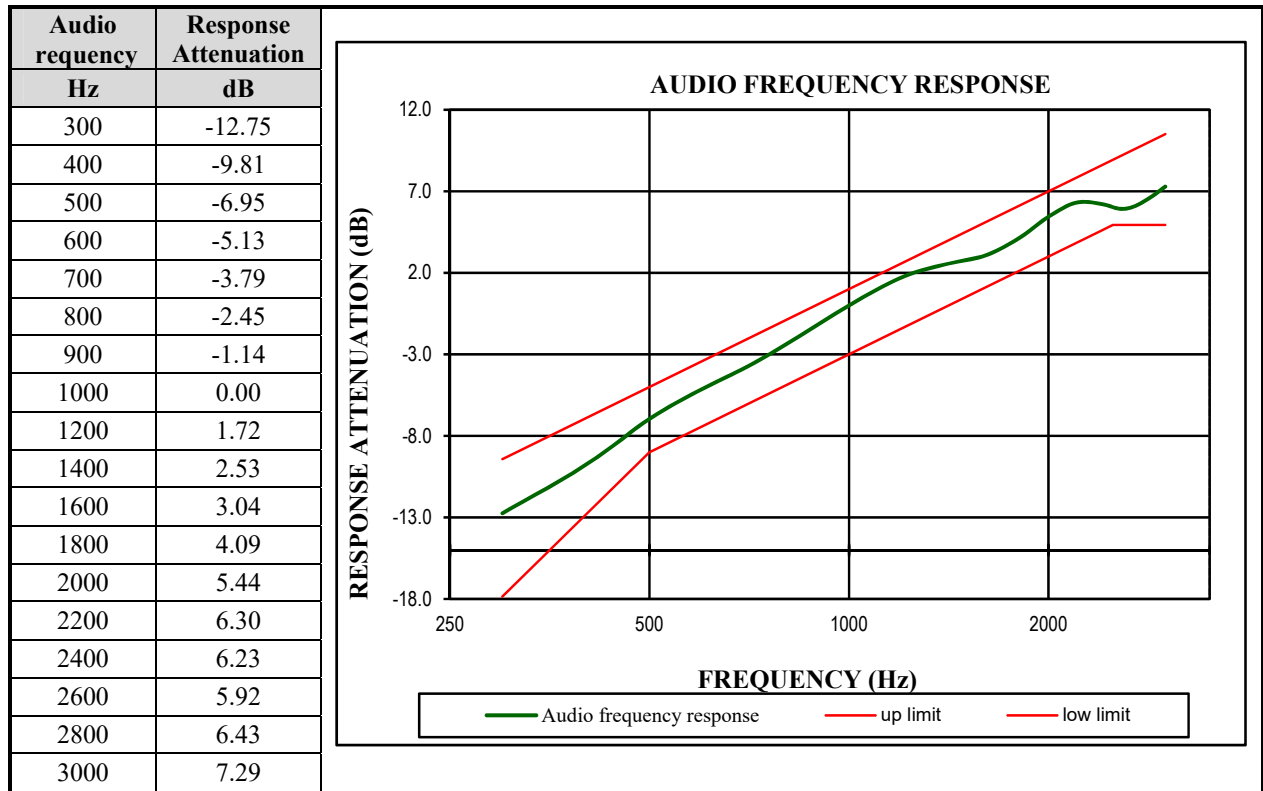
PK-

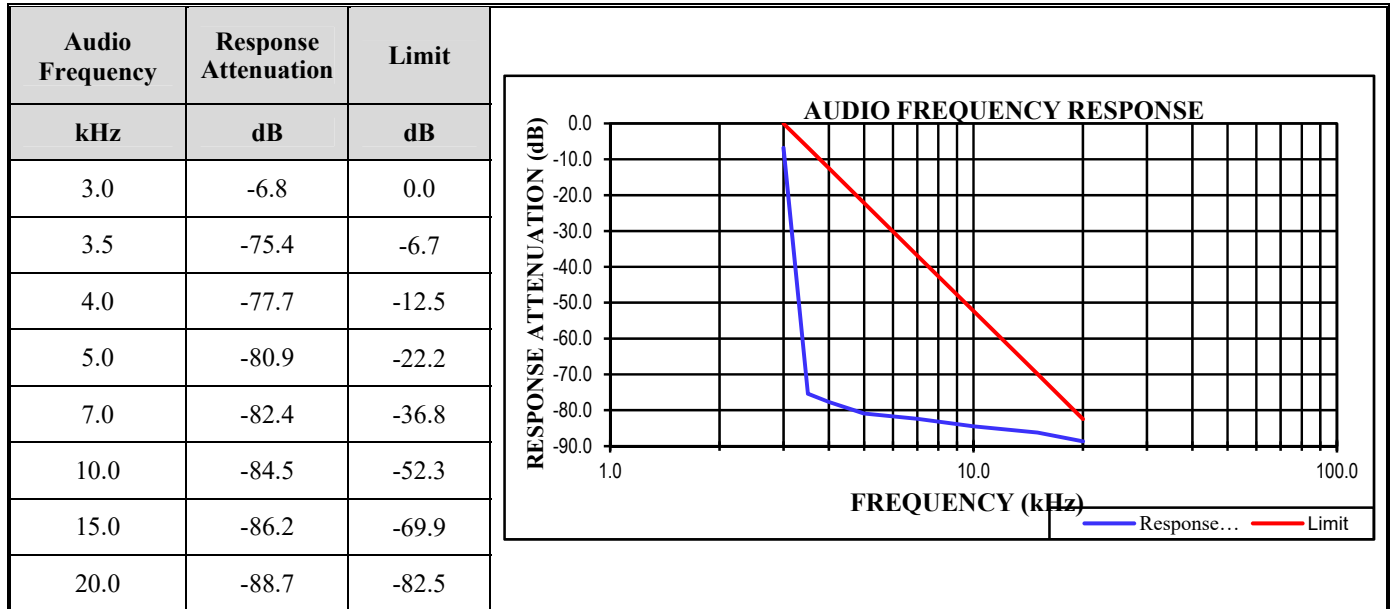
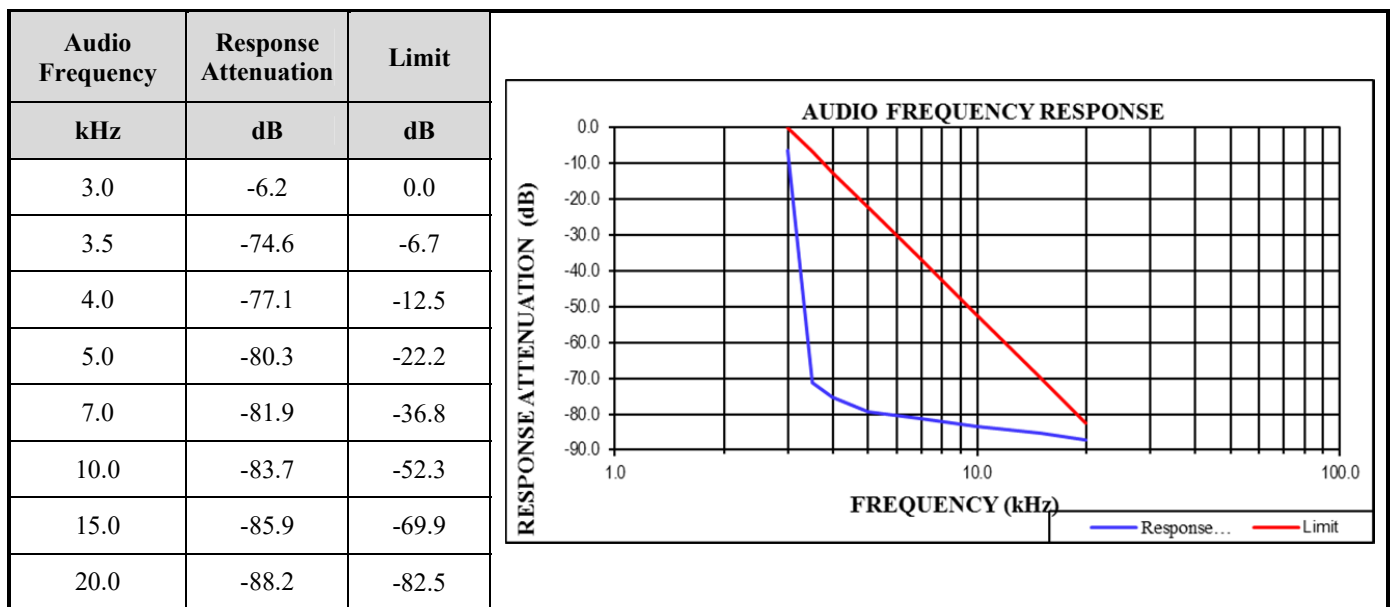
FM 12.5kHz	Carrier Frequency: 453.2125MHz				
Audio Input Level (dB)	Deviation (kHz)				Limit (kHz)
	0.3	1.0	2.5	3.0	
20	1.289	2.026	2.099	2.111	2.5
15	1.207	2.023	2.097	2.112	2.5
10	1.093	2.016	2.099	2.114	2.5
5	0.631	1.975	2.101	2.108	2.5
0	0.377	1.500	2.086	2.094	2.5



Audio Frequency Response**Carrier Frequency: 155.7525MHz**

Carrier Frequency: 453.2125MHz



Audio Frequency Low Pass Filter Response**Carrier Frequency: 155.7525MHz****Carrier Frequency: 453.2125MHz**

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

Applicable Standard

FCC §90.209

(a) Each authorization issued to a station licensed under this part will show an emission designator representing the class of emission authorized. The designator will be prefixed by a specified necessary bandwidth. This number does not necessarily indicate the bandwidth occupied by the emission at any instant. In those cases where §2.202 of this chapter does not provide a formula for the computation of necessary bandwidth, the occupied bandwidth, as defined in part 2 of this chapter, may be used in lieu of the necessary bandwidth.

(b) (5) Unless specified elsewhere, channel spacings and bandwidths that will be authorized in the following frequency bands are given in the following table: STANDARD CHANNEL SPACING/ BANDWIDTH

FCC §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) On any frequency from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625 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 $50 + 10 \log (P)$ dB or 70 dB, whichever is the lesser attenuation.
- (4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth.

For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

Emission Mask E—6.25 kHz or less channel bandwidth equipment. For transmitters designed to operate with a 6.25 kHz or less bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- (1) On any frequency from the center of the authorized bandwidth f_0 to 3.0 kHz removed from f_0 : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 3.0 kHz but no more than 4.6 kHz: At least $30 + 16.67(f_d - 3 \text{ kHz})$ or $55 + 10 \log (P)$ or 65 dB, whichever is the lesser attenuation.

(3) On any frequency removed from the center of the authorized bandwidth by more than 4.6 kHz: At least $55 + 10 \log(P)$ or 65 dB, whichever is the lesser attenuation.

(4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

Test Procedure

According to ANSI C63.26-2015 Section 5.4.4:

The OBW is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

The following procedure shall be used for measuring (99%) power bandwidth:

- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of $1.5 \times \text{OBW}$ is sufficient).
- The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3. NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.
- Set the detection mode to peak, and the trace mode to max-hold.
- If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.
- The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

According to ANSI C63.26-2015 Section 5.7.3:

- See Annex I for example emission mask plots.

EUT Setup Block Diagram



Test Data

Test Mode:	Transmitting	Test Engineer:	Lucas Lin
Test Date:	2025-09-23~2025-09-25	Test Result:	Compliant

Enviroment Conditions:

Temperature: (°C)	23.5~24.3	Relative Humidity: (%)	55~56	ATM Pressure: (kPa)	100.1~100.2
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Please refer to below table:

Bandwidth:

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	136.0125	9.776	10.897	9.776	10.897
		155.7525	9.776	10.897	9.776	10.897
		173.9875	9.776	10.897	9.776	10.897
		400.0125	9.776	10.737	9.776	10.737
		453.2125	9.776	10.737	9.776	10.737
		479.9875	9.776	10.737	9.776	10.737
4FSK (DMR)	12.5kHz	136.0125	7.292	9.455	7.372	9.696
		155.7525	7.532	9.615	6.971	9.295
		173.9875	7.372	9.455	7.372	9.936
		400.0125	7.452	9.936	7.452	9.936
		453.2125	7.692	9.615	7.131	9.375
		479.9875	7.051	9.295	7.292	9.295
4FSK (NXDN)	6.25kHz	136.0125	3.606	5.048	3.606	5.048
		155.7525	3.686	5.048	3.766	5.208
		173.9875	3.526	5.288	3.606	5.048
		400.0125	3.526	4.968	3.606	5.128
		453.2125	3.686	5.128	3.606	5.288
		479.9875	3.766	5.208	3.606	4.968
4FSK (NXDN)	12.5kHz	136.0125	7.692	10.737	7.612	10.417
		155.7525	7.692	10.577	7.853	10.417
		173.9875	7.853	10.337	7.772	10.417
		400.0125	7.853	10.256	7.772	10.337
		453.2125	7.772	10.417	7.853	10.417
		479.9875	7.853	10.337	7.933	10.417

Emission Mask please refer to the plots. And Emission Mask is tested below attenuation to power (P).

Note:

Emission bandwidth was based on calculation method instead of measurement.

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

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.

$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} = 11K0$

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, 7.60 kHz. 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.

For Digital Mode (Channel Spacing: 6.25 kHz)

Emission Designator 4K00F1D and 4K00F1E

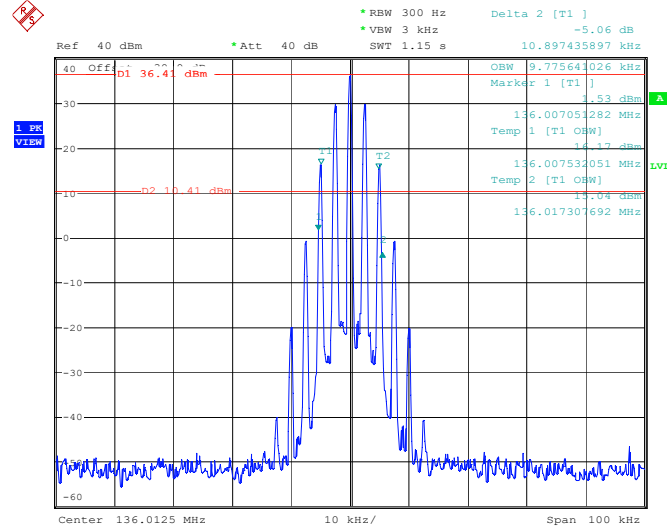
The 99% energy rule (title 47CFR 2.1049) was used for digital mode. It basically states that 99% of the modulation energy falls within X kHz, in this case, 4.00 kHz. The emission mask was obtained from 47CFR 90.210(E).

F1D and F1E portion of the designator indicates digital information.

Therefore, the entire designator for 6.25 kHz channel spacing digital mode is 4K00F1D and 4K00F1E.

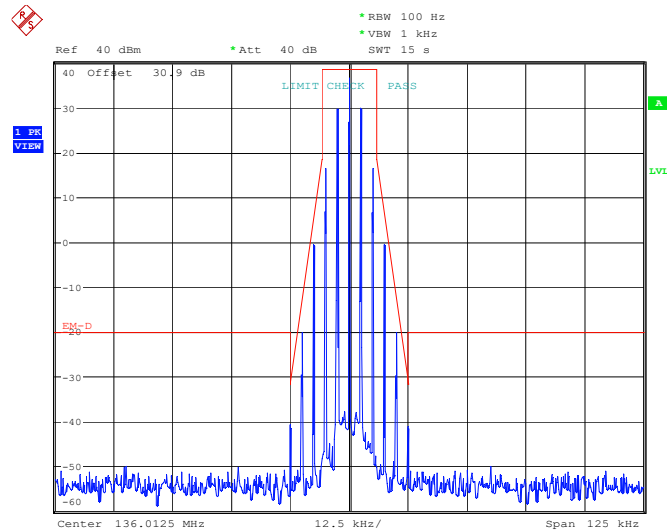
Note: The 31 dB is the Insertion loss of the RF cable, Attenuators, which was offset into the Spectrum Analyzer.

High Power, Occupied Bandwidth - 136.0125MHz (FM 12.5kHz)



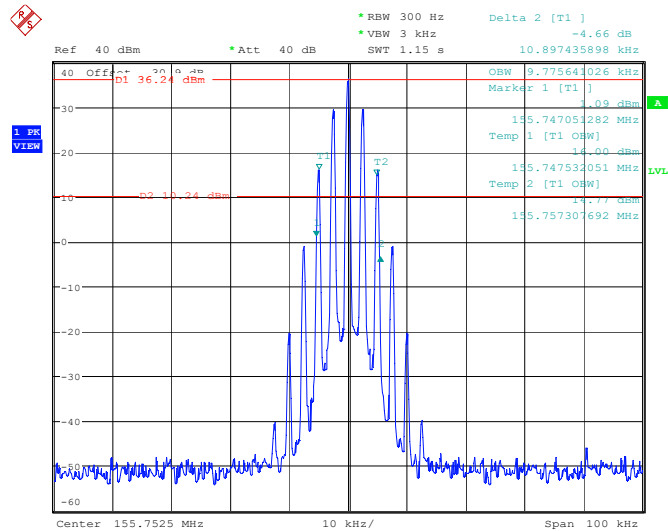
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 14:49:07

Emission Mask D



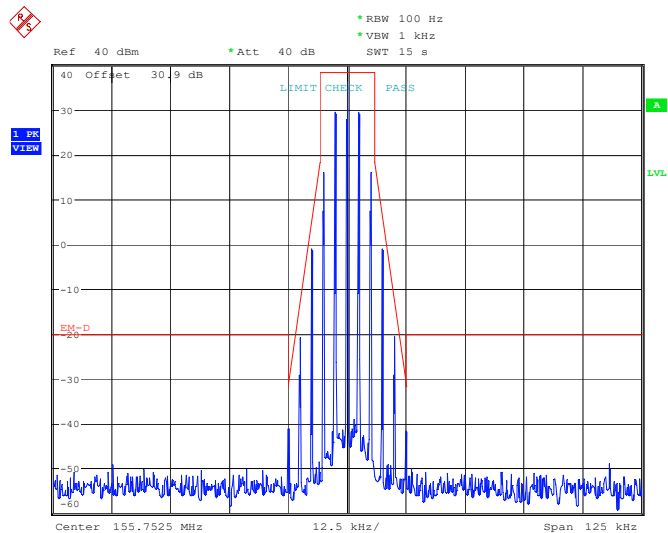
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 15:33:44

High Power, Occupied Bandwidth - 155.7525MHz (FM 12.5kHz)



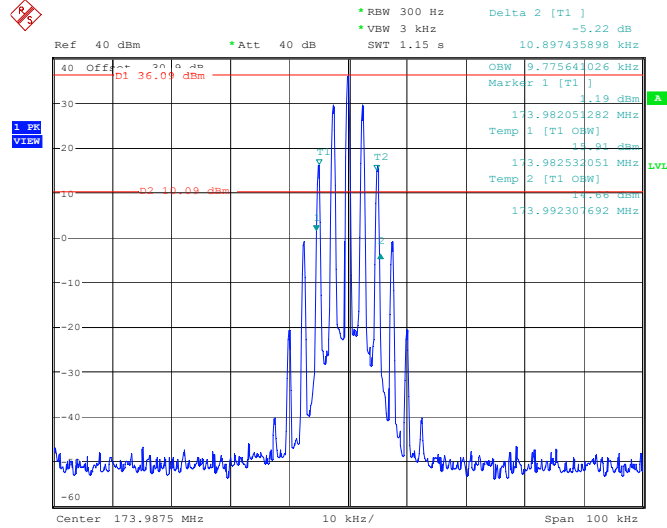
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 14:51:03

Emission Mask D



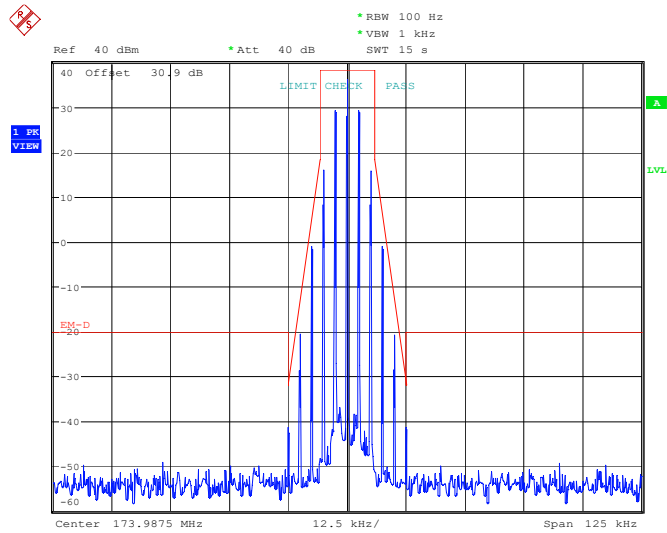
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 15:31:23

High Power, Occupied Bandwidth - 173.9875MHz (FM 12.5kHz)



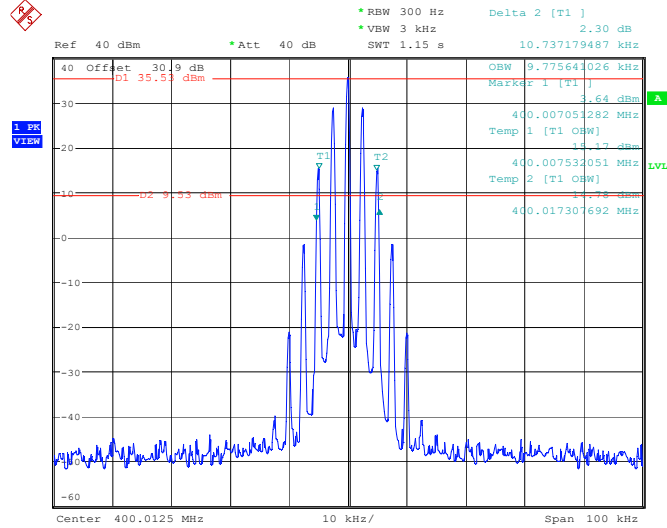
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 14:52:08

Emission Mask D



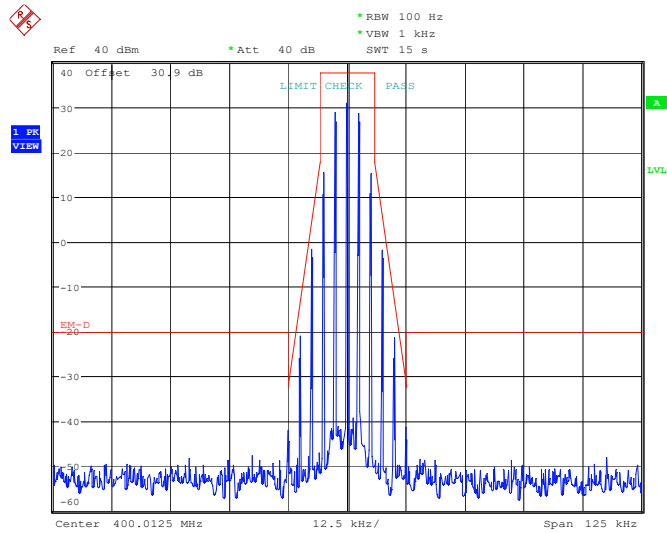
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 15:29:21

High Power, Occupied Bandwidth - 400.0125MHz (FM 12.5kHz)



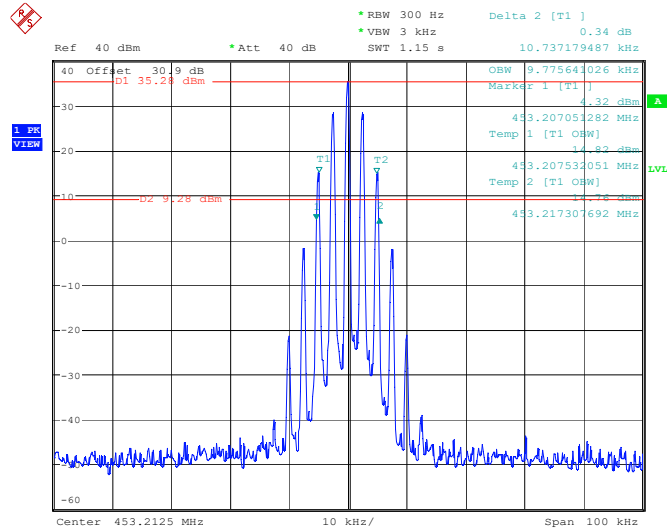
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 14:53:18

Emission Mask D



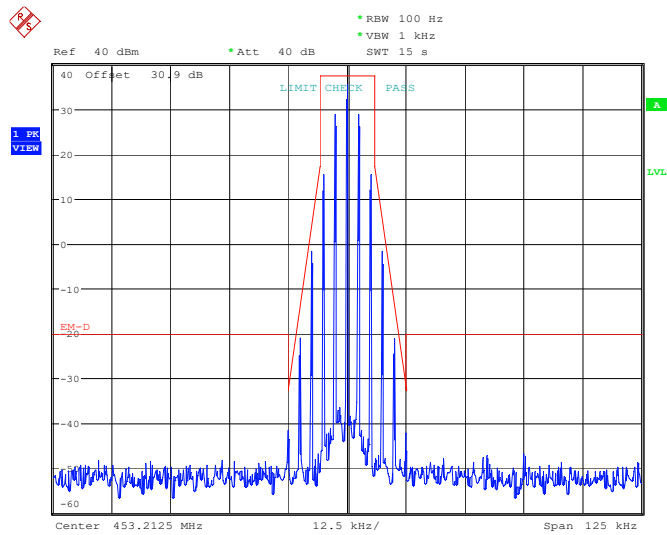
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 15:28:06

High Power, Occupied Bandwidth - 453.2125MHz (FM 12.5kHz)



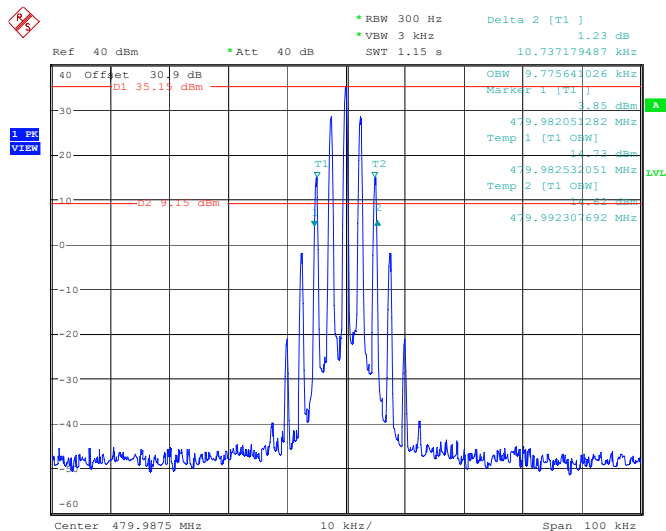
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 14:54:31

Emission Mask D



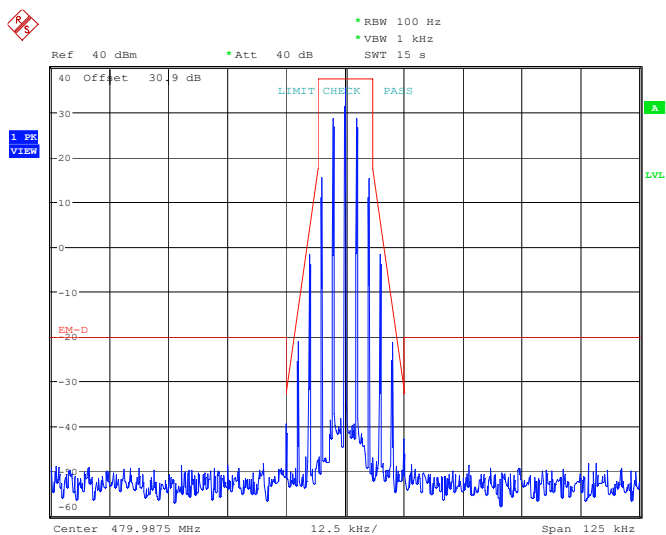
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 15:27:54

High Power, Occupied Bandwidth - 479.9875MHz (FM 12.5kHz)



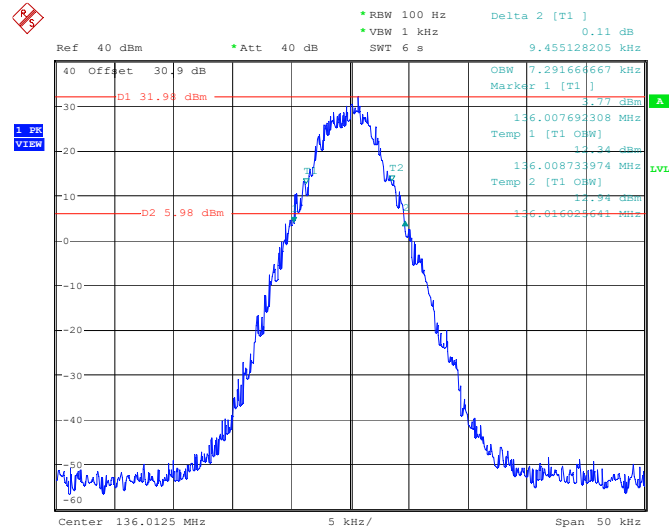
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 14:55:35

Emission Mask D



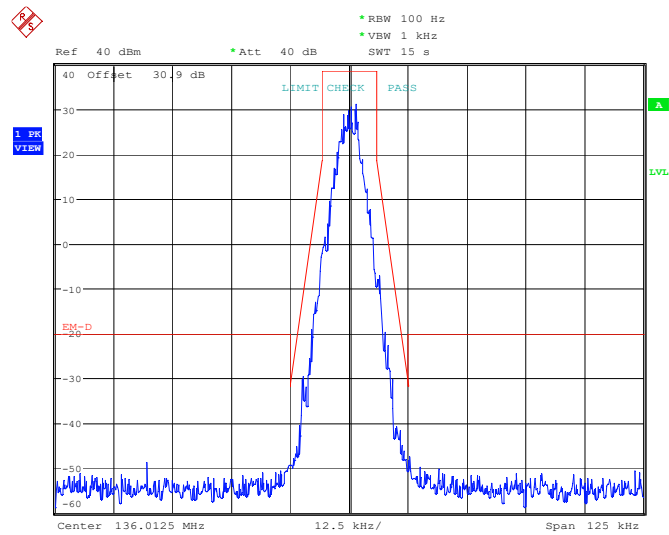
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 15:25:43

High Power, Occupied Bandwidth - 136.0125MHz (4FSK 12.5kHz (DMR))



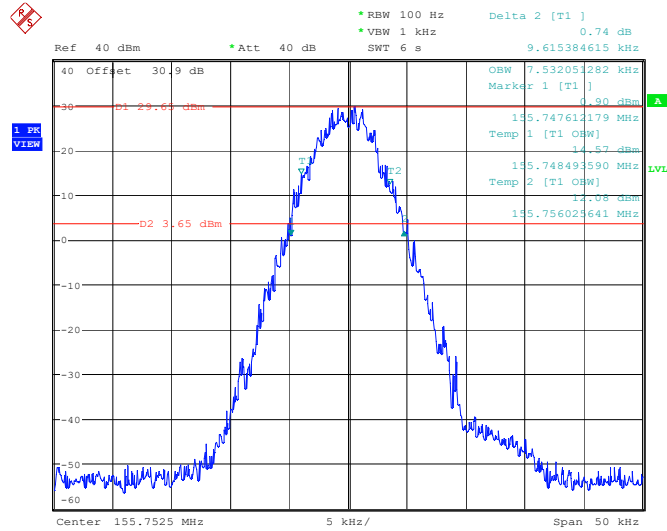
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 15:55:34

Emission Mask D



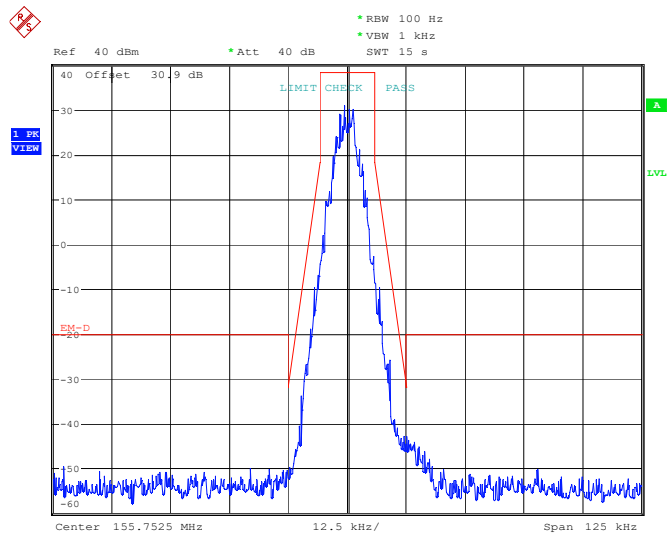
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 18:39:29

High Power, Occupied Bandwidth - 155.7525MHz (4FSK 12.5kHz (DMR))



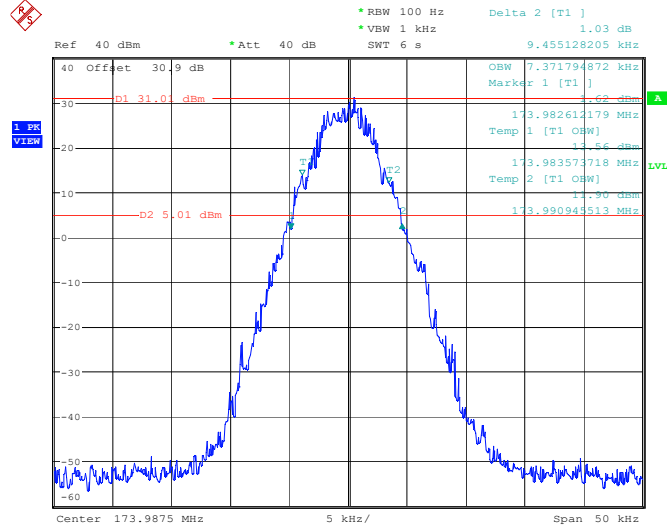
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 15:53:02

Emission Mask D



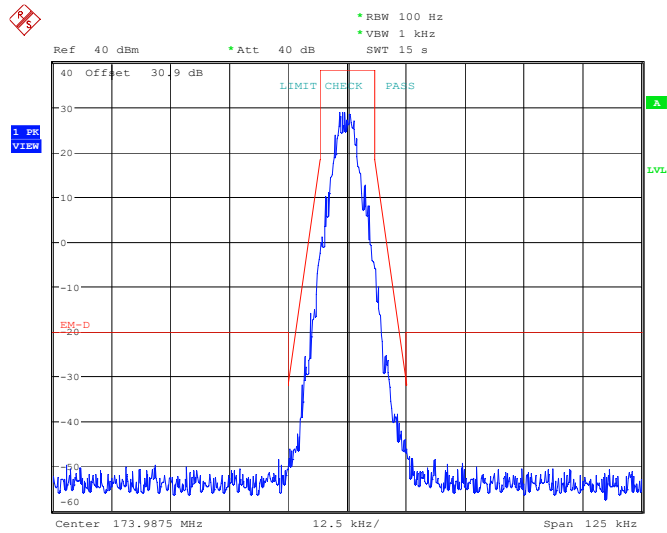
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 18:37:38

High Power, Occupied Bandwidth - 173.9875MHz (4FSK 12.5kHz (DMR))



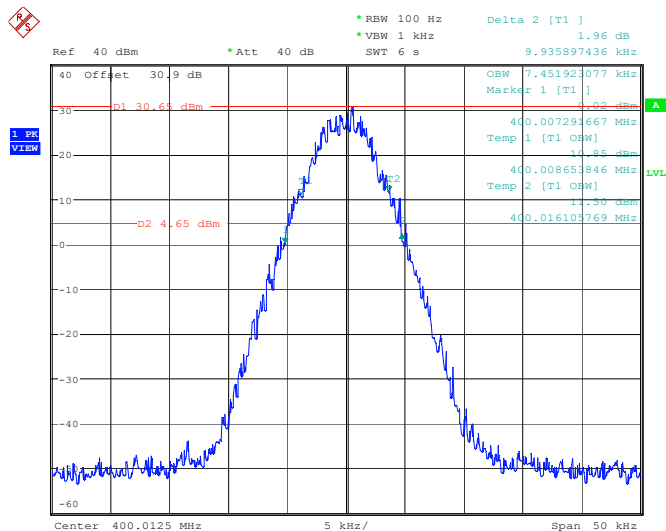
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 15:57:45

Emission Mask D



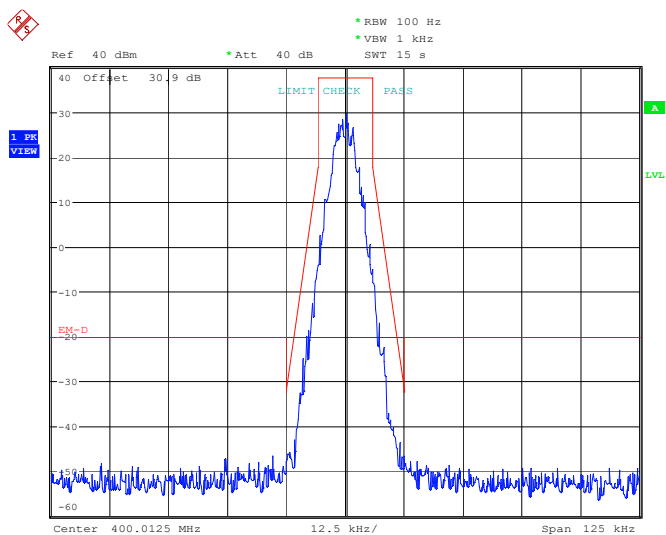
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 18:35:37

High Power, Occupied Bandwidth - 400.0125MHz (4FSK 12.5kHz (DMR))



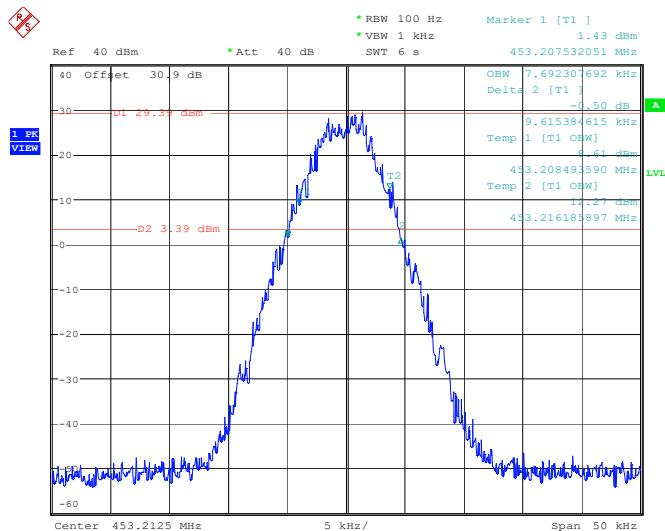
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 16:01:43

Emission Mask D



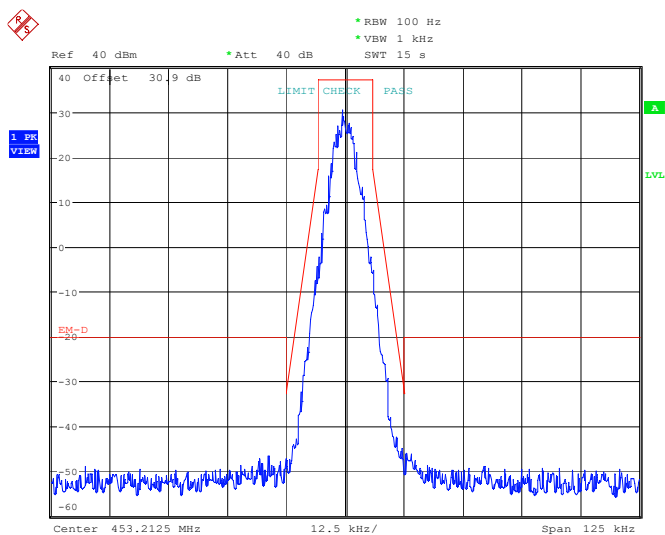
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 18:31:29

High Power, Occupied Bandwidth - 453.2125MHz (4FSK 12.5kHz (DMR))



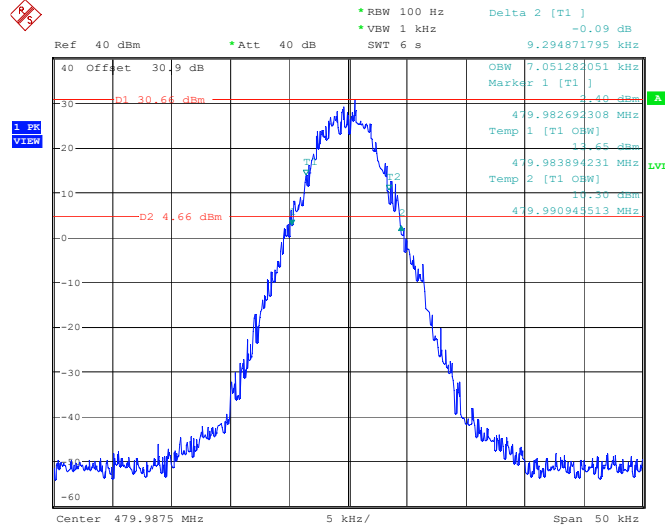
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 16:04:05

Emission Mask D



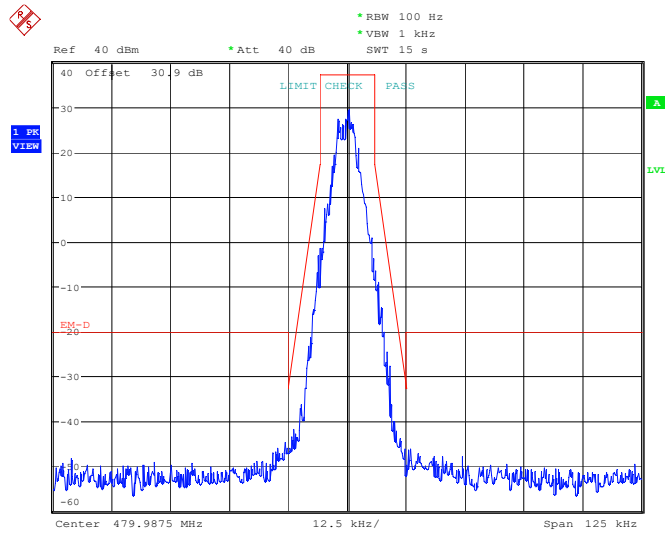
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 18:30:37

High Power, Occupied Bandwidth - 479.9875MHz (4FSK 12.5kHz (DMR))



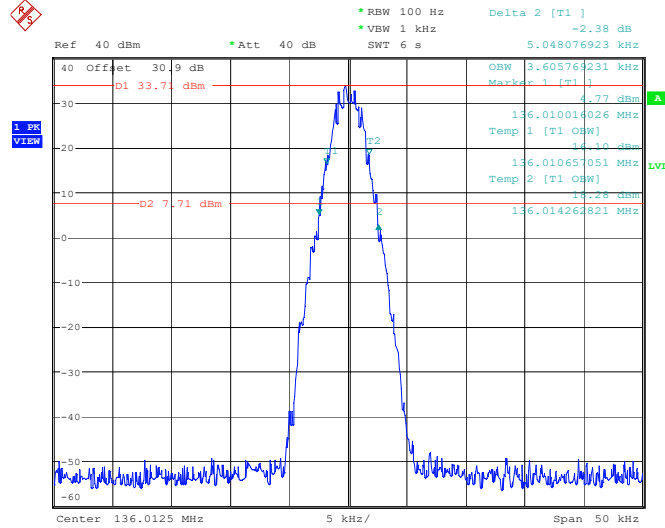
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 16:06:02

Emission Mask D



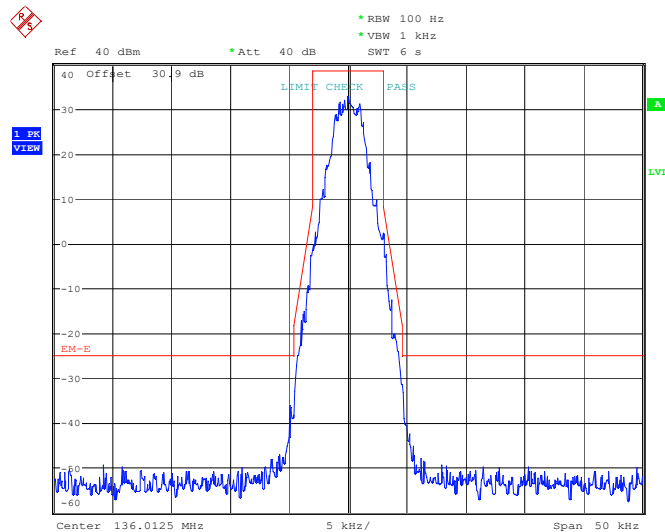
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 18:27:27

High Power, Occupied Bandwidth - 136.0125MHz (4FSK 6.25kHz (NXDN))

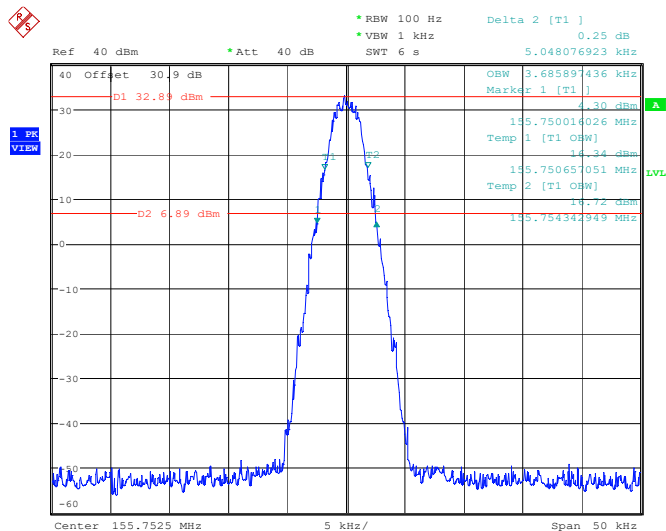


Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 25.SEP.2025 19:06:59

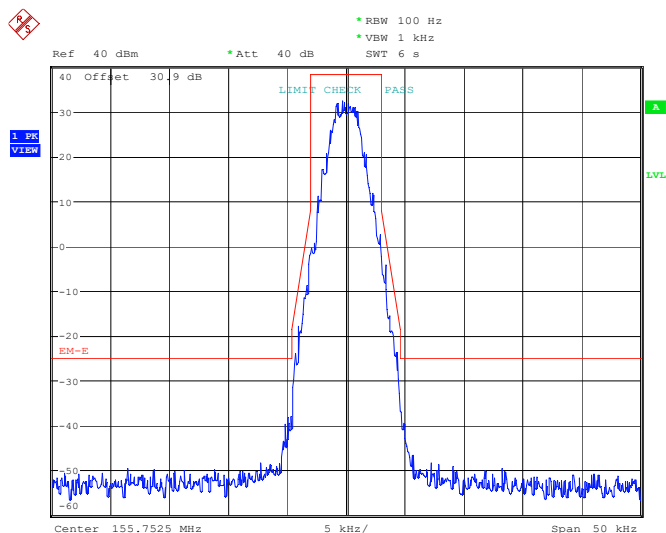
Emission Mask E



Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 25.SEP.2025 20:31:19

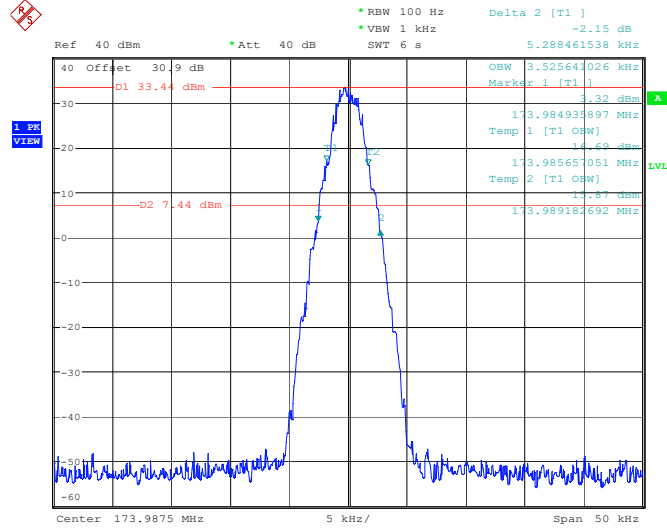
High Power, Occupied Bandwidth - 155.7525MHz (4FSK 6.25kHz (NXDN))

Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:09:41

Emission Mask E

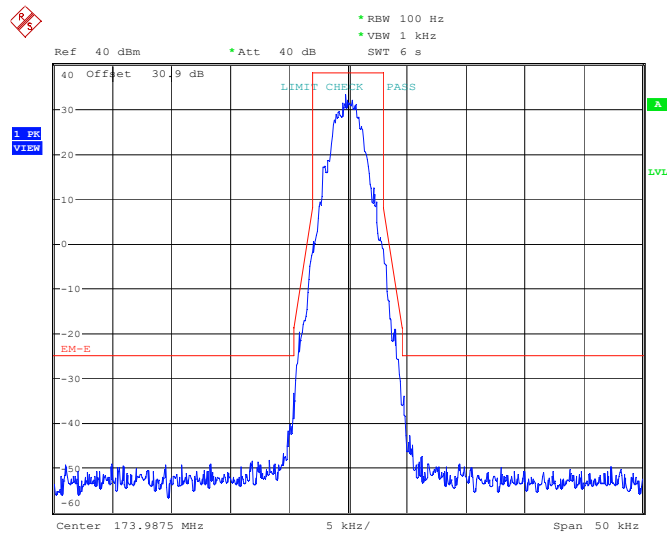
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 20:27:30

High Power, Occupied Bandwidth - 173.9875MHz (4FSK 6.25kHz (NXDN))



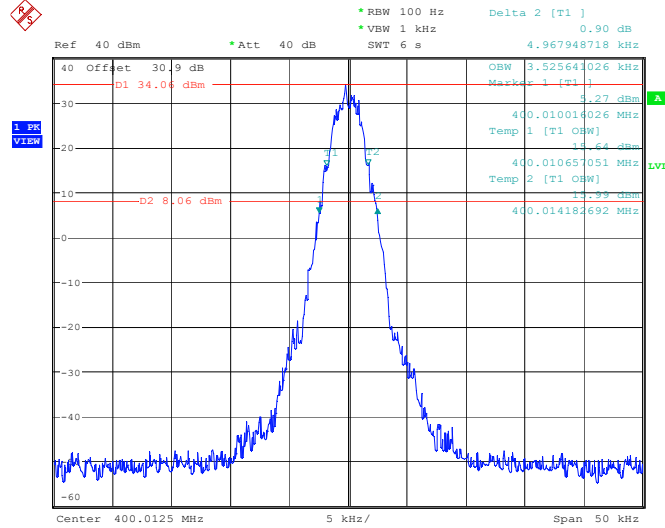
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:11:53

Emission Mask E



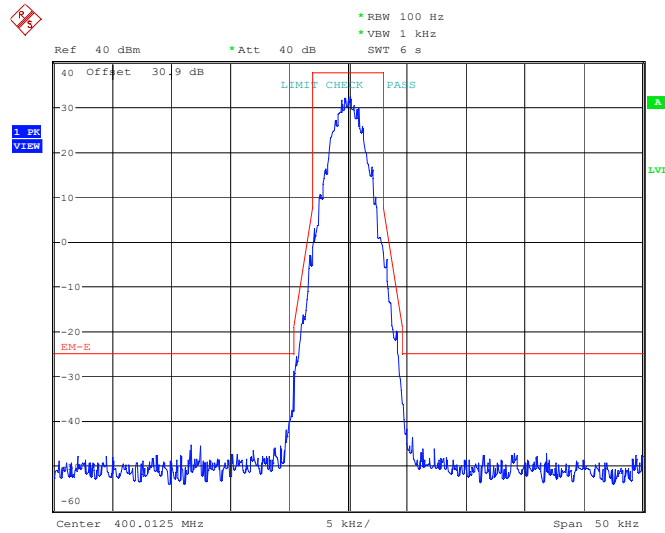
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 20:25:30

High Power, Occupied Bandwidth - 400.0125MHz (4FSK 6.25kHz (NXDN))



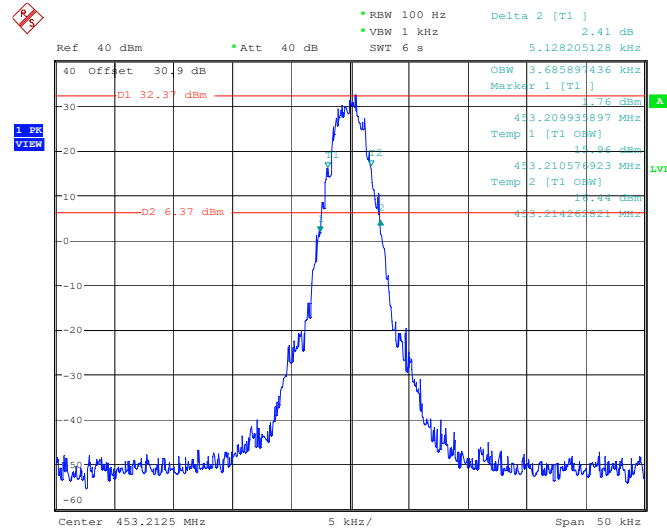
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:13:43

Emission Mask E



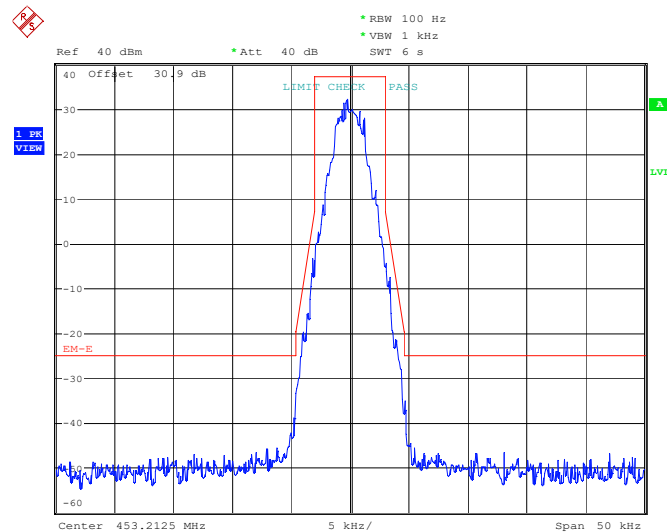
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 20:23:41

High Power, Occupied Bandwidth - 453.2125MHz (4FSK 6.25kHz (NXDN))



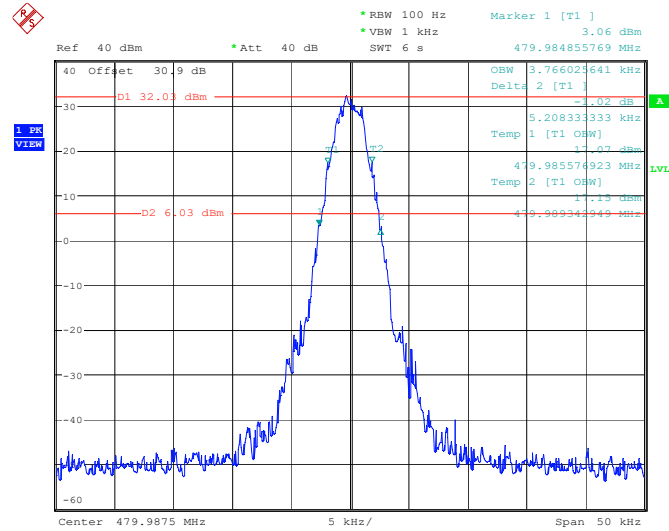
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:15:34

Emission Mask E



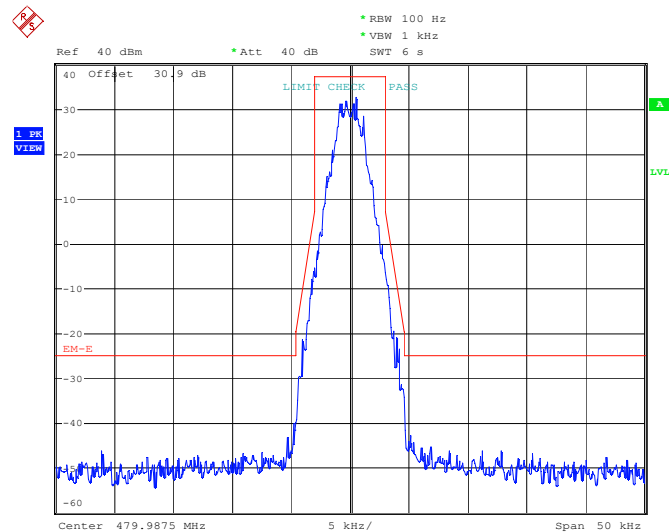
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 20:20:22

High Power, Occupied Bandwidth - 479.9875MHz (4FSK 6.25kHz (NXDN))



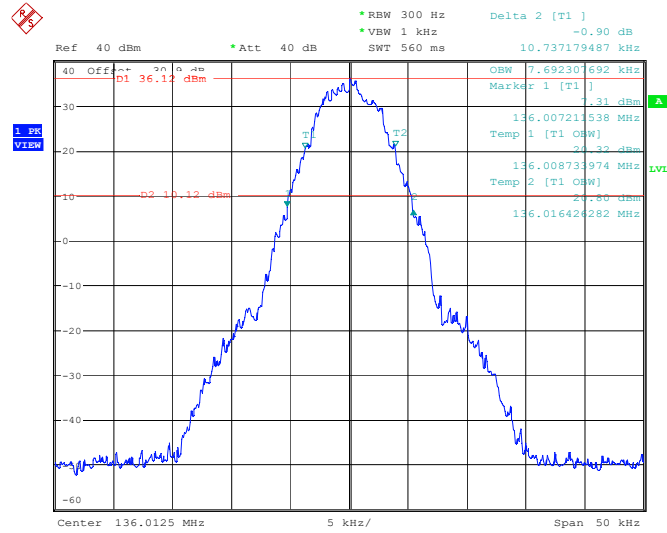
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:17:43

Emission Mask E



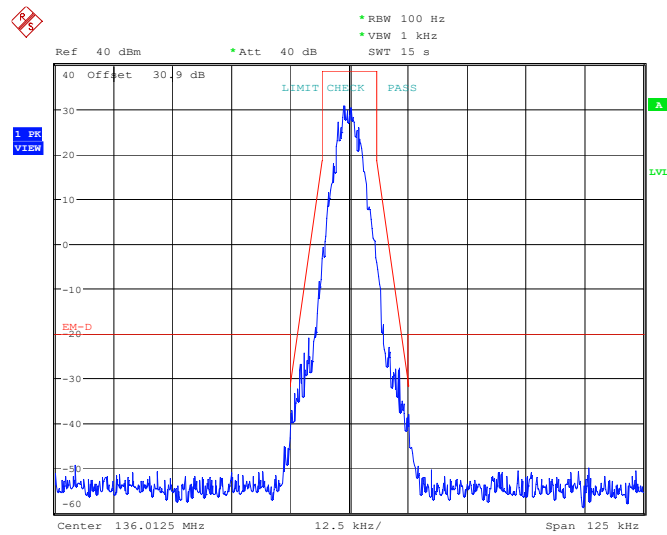
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 20:17:35

High Power, Occupied Bandwidth - 136.0125MHz (4FSK 12.5kHz (NXDN))



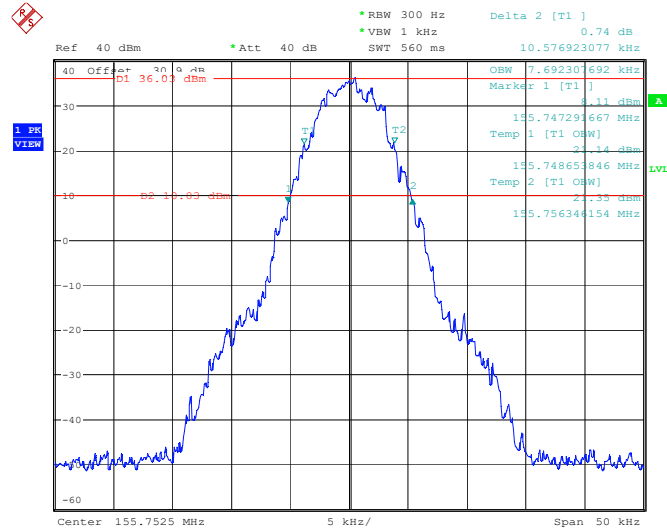
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 16:26:52

Emission Mask D



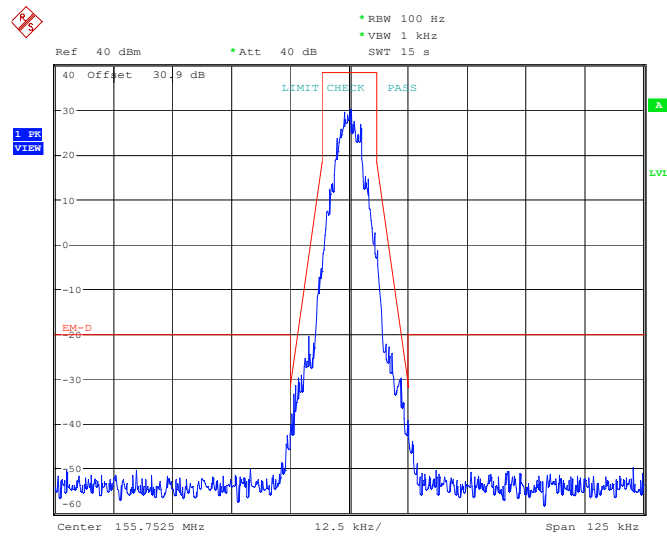
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 18:14:19

High Power, Occupied Bandwidth - 155.7525MHz (4FSK 12.5kHz (NXDN))

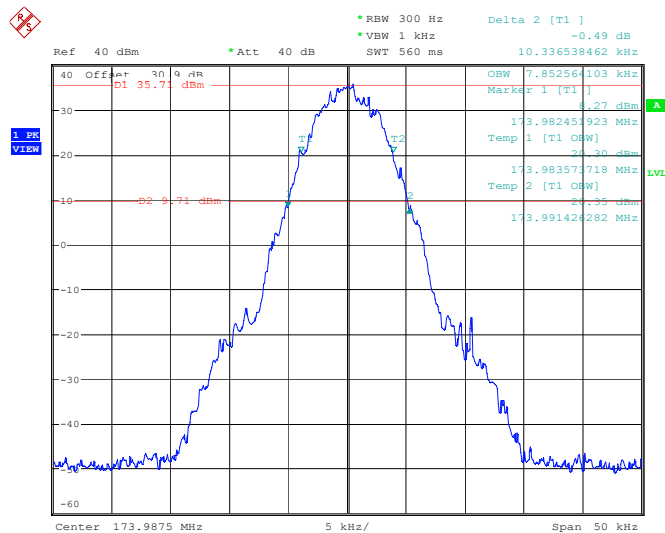


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 16:24:25

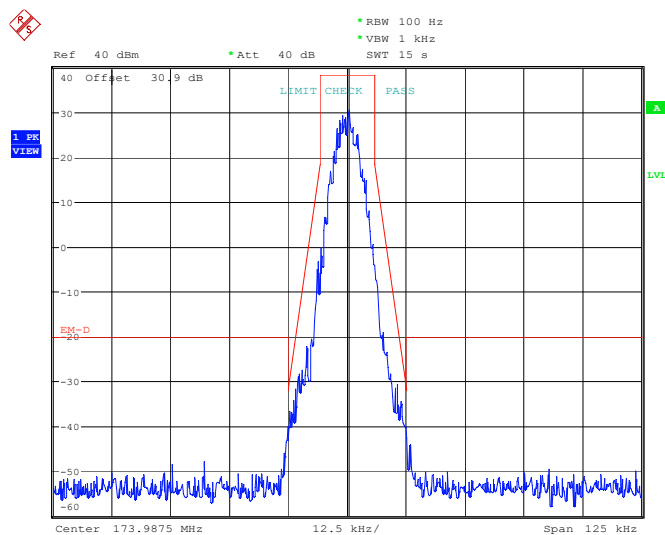
Emission Mask D



Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 18:16:11

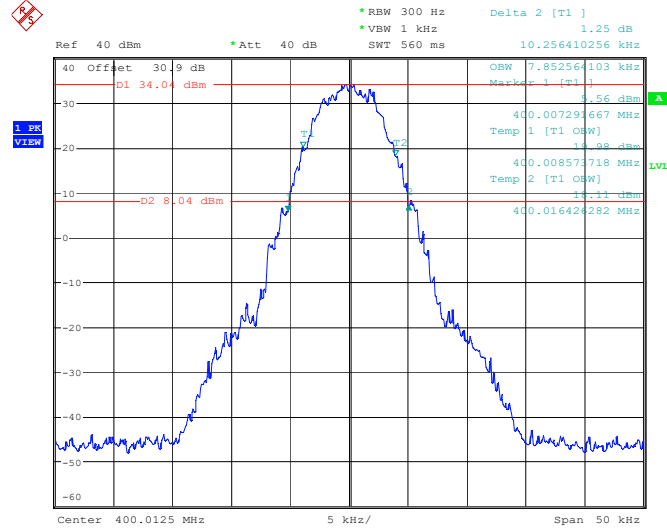
High Power, Occupied Bandwidth - 173.9875MHz (4FSK 12.5kHz (NXDN))

Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 16:21:42

Emission Mask D

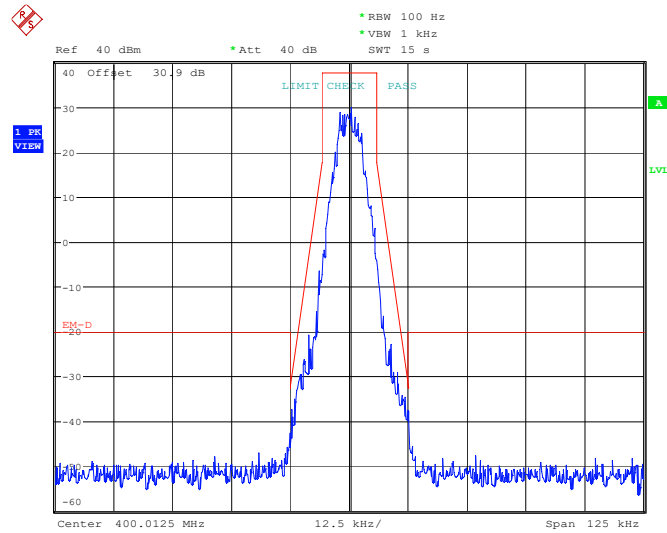
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 18:19:59

High Power, Occupied Bandwidth - 400.0125MHz (4FSK 12.5kHz (NXDN))



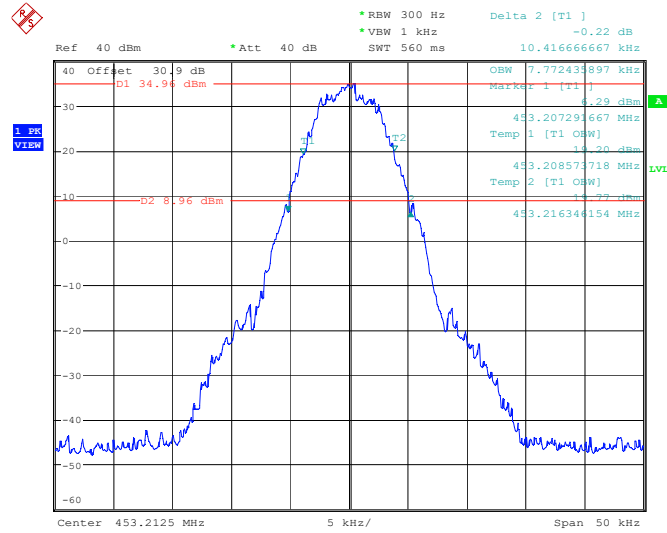
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 16:18:35

Emission Mask D



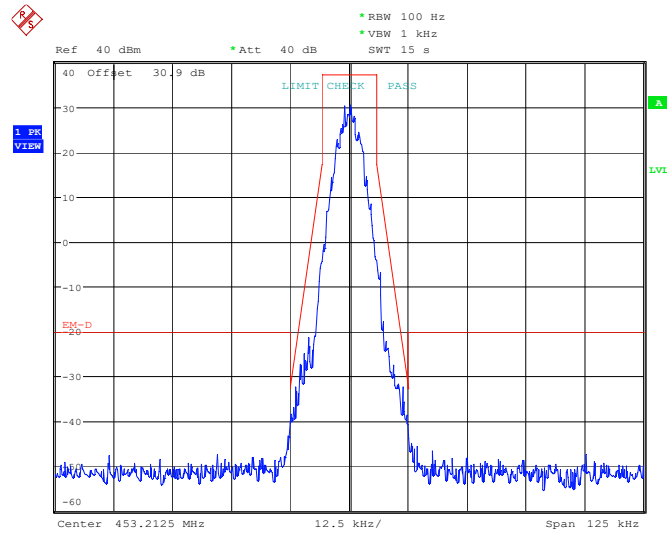
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 18:21:43

High Power, Occupied Bandwidth - 453.2125MHz (4FSK 12.5kHz (NXDN))



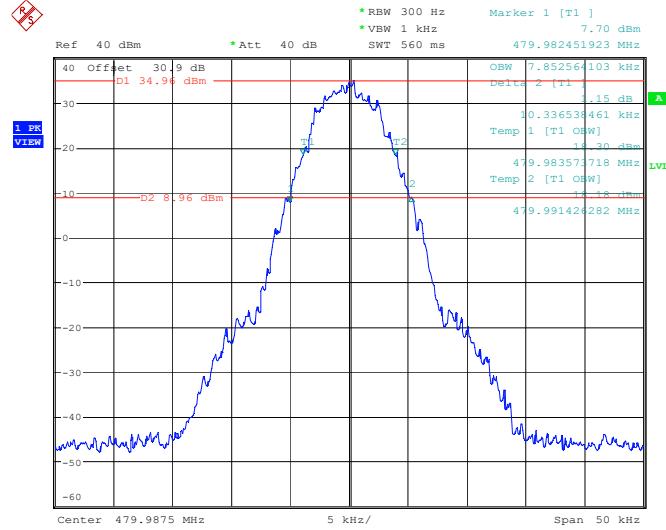
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 16:16:04

Emission Mask D



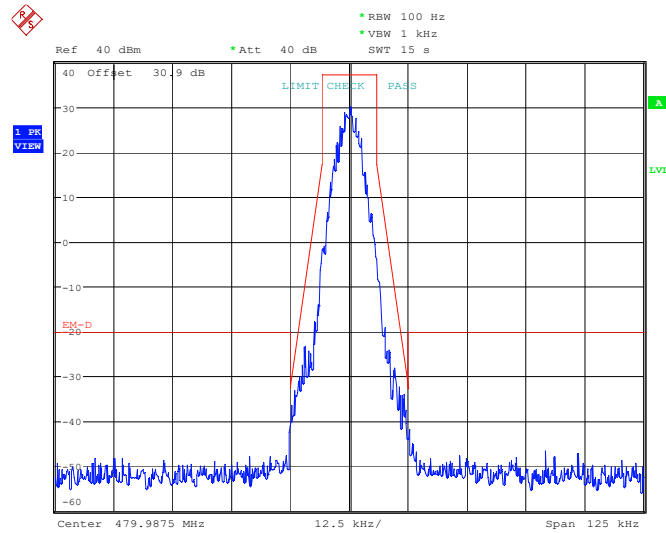
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 18:23:47

High Power, Occupied Bandwidth - 479.9875MHz (4FSK 12.5kHz (NXDN))



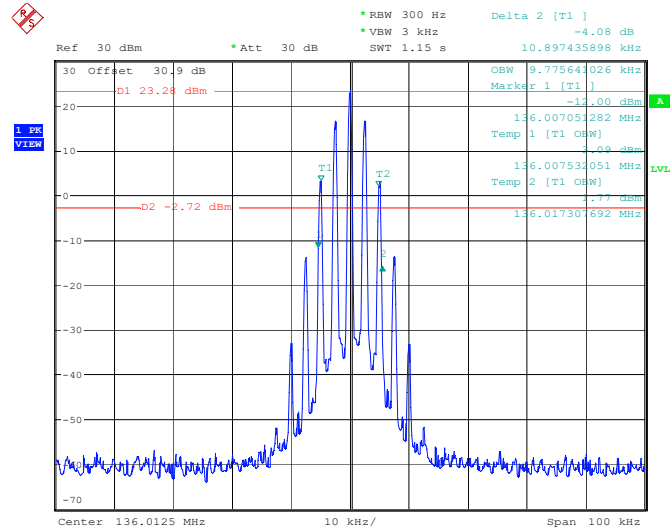
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 16:14:11

Emission Mask D



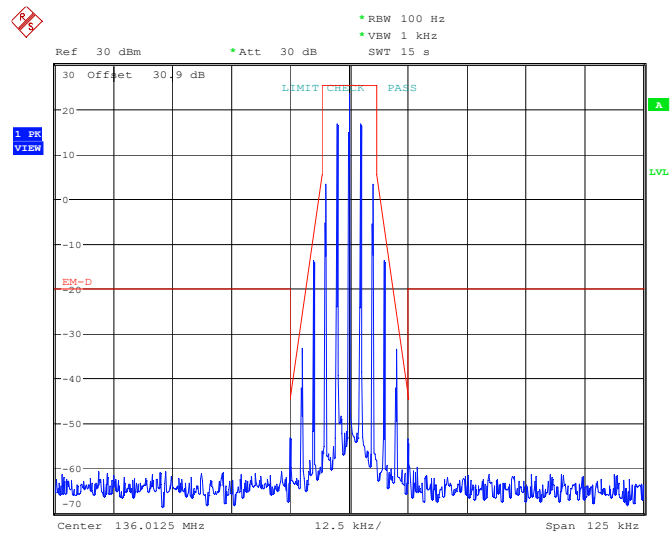
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 18:25:31

Low Power, Occupied Bandwidth - 136.0125MHz (FM 12.5kHz)

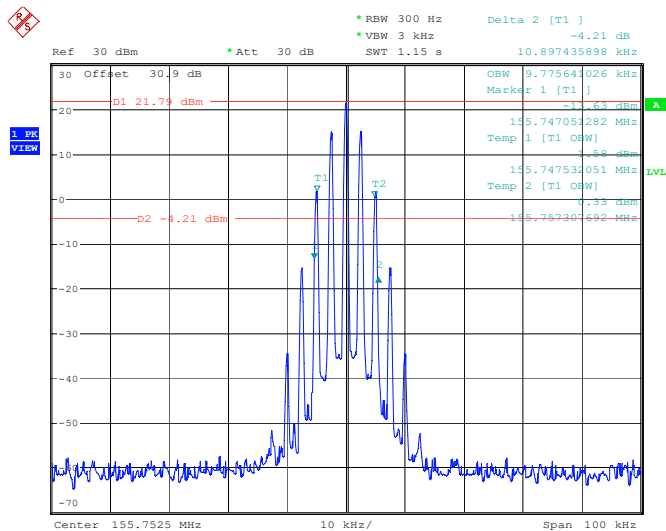


ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 15:06:14

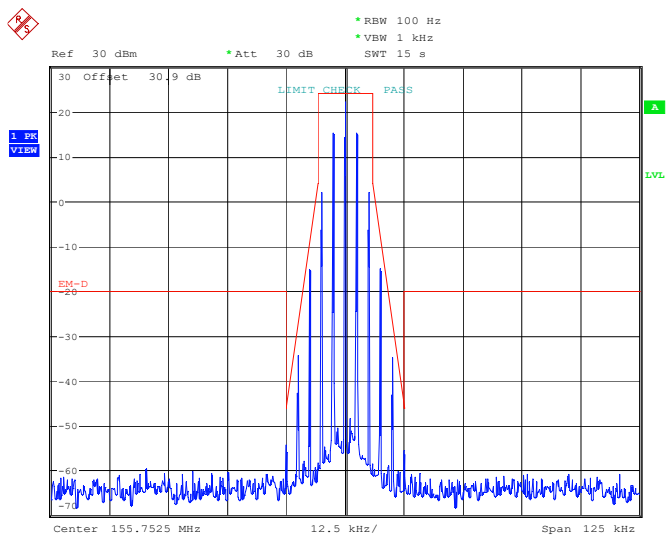
Emission Mask D



Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 15:11:52

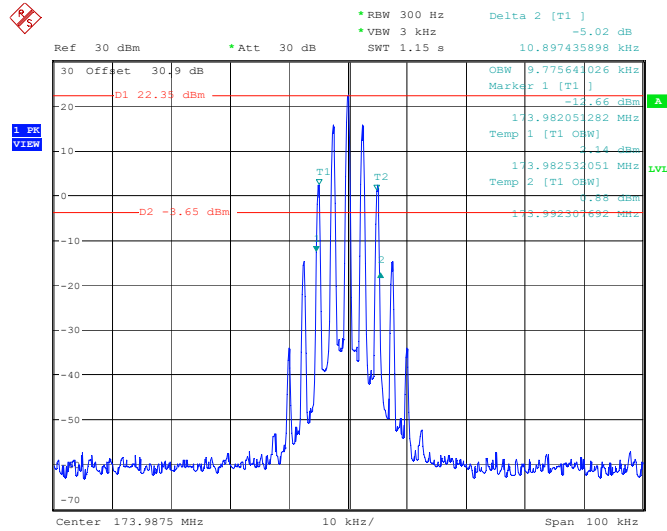
Low Power, Occupied Bandwidth - 155.7525MHz (FM 12.5kHz)

ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 15:04:52

Emission Mask D

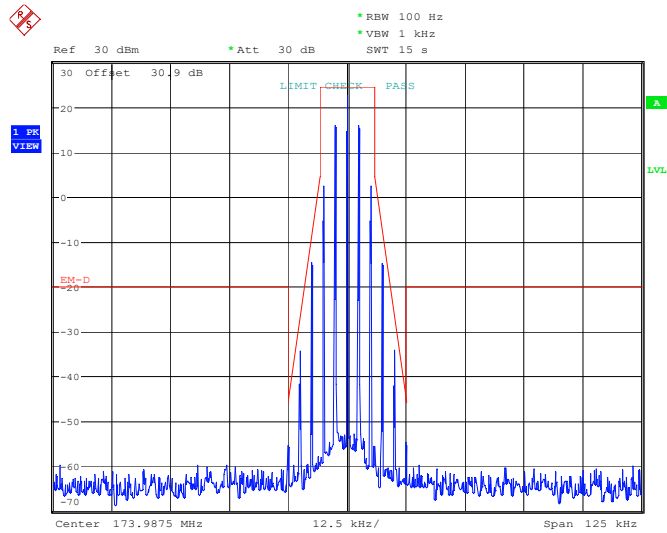
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 15:14:47

Low Power, Occupied Bandwidth - 173.9875MHz (FM 12.5kHz)



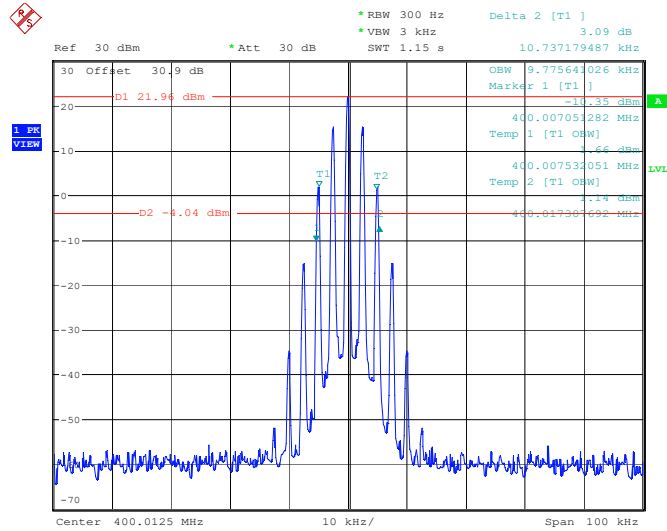
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 15:03:38

Emission Mask D



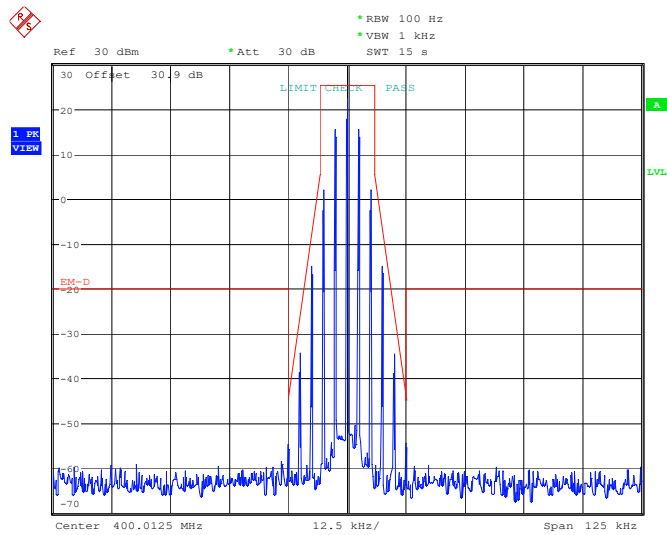
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 15:15:32

Low Power, Occupied Bandwidth - 400.0125MHz (FM 12.5kHz)



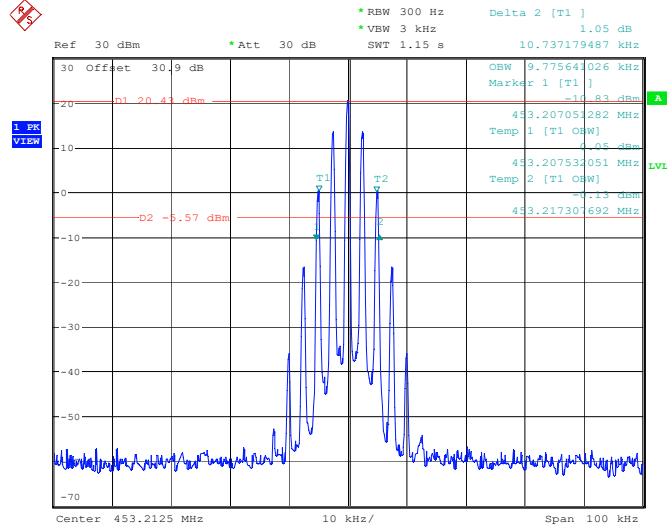
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 15:02:13

Emission Mask D



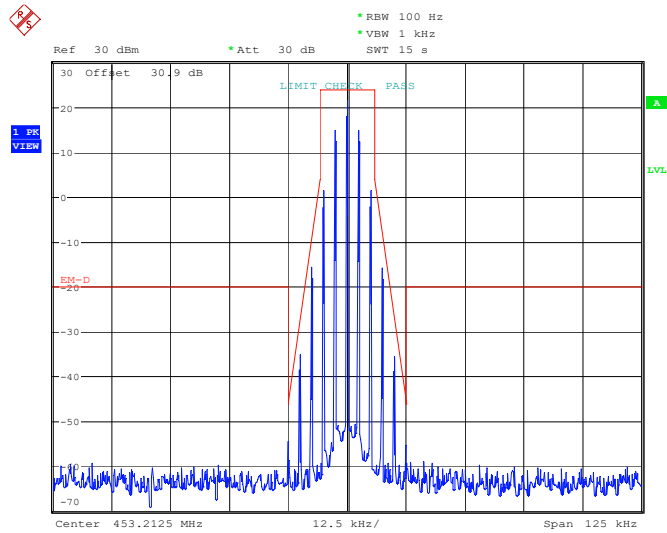
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 15:18:19

Low Power, Occupied Bandwidth - 453.2125MHz (FM 12.5kHz)



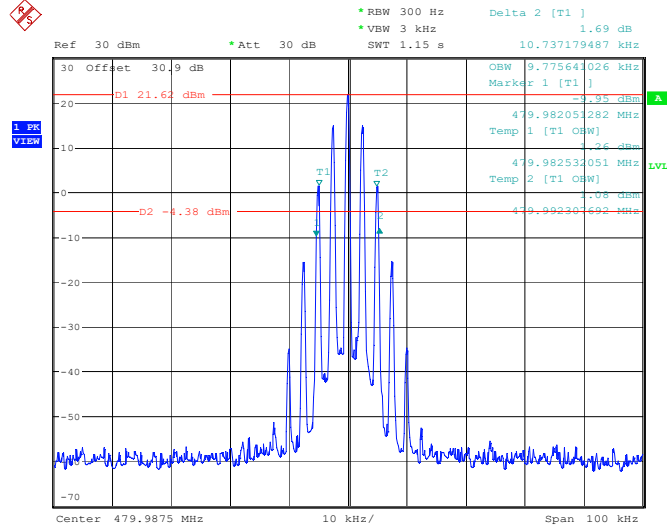
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 15:01:00

Emission Mask D



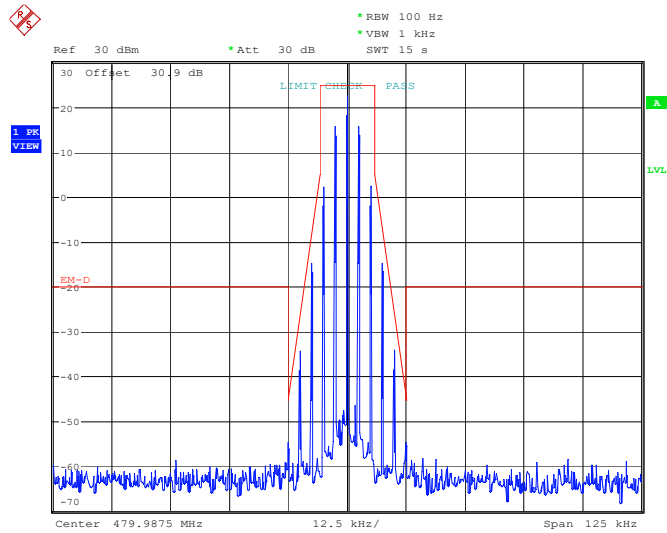
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 15:20:10

Low Power, Occupied Bandwidth - 479.9875MHz (FM 12.5kHz)



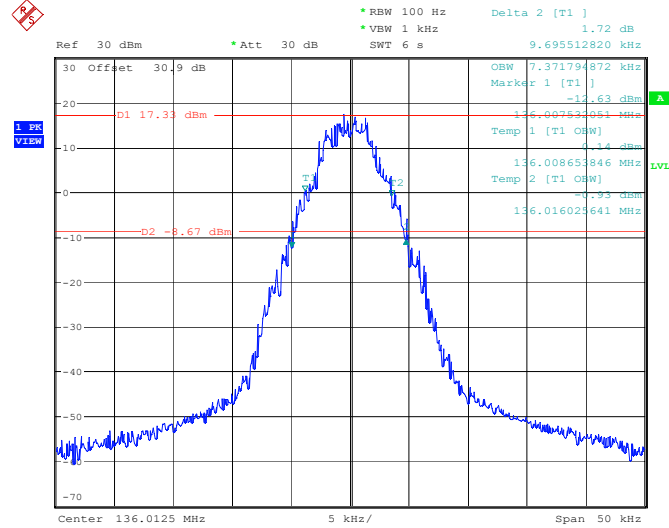
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 14:59:45

Emission Mask D



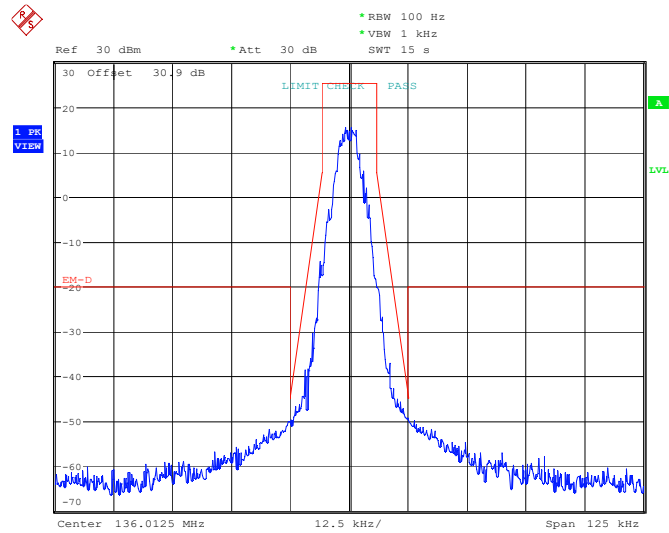
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 15:22:03

Low Power, Occupied Bandwidth - 136.0125MHz (4FSK 12.5kHz (DMR))



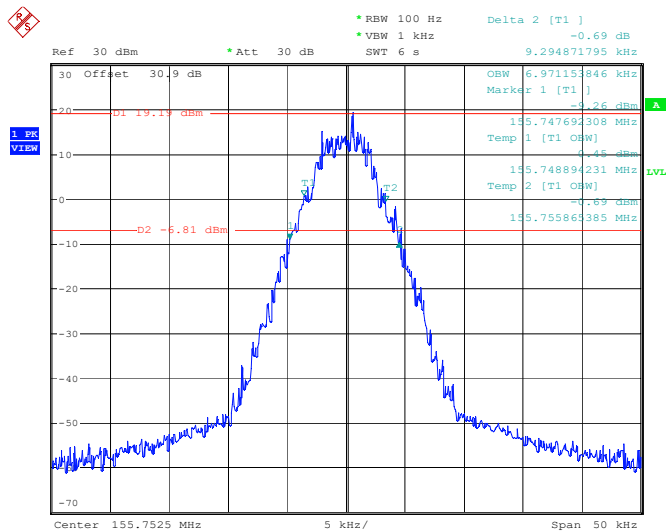
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 17:33:42

Emission Mask D



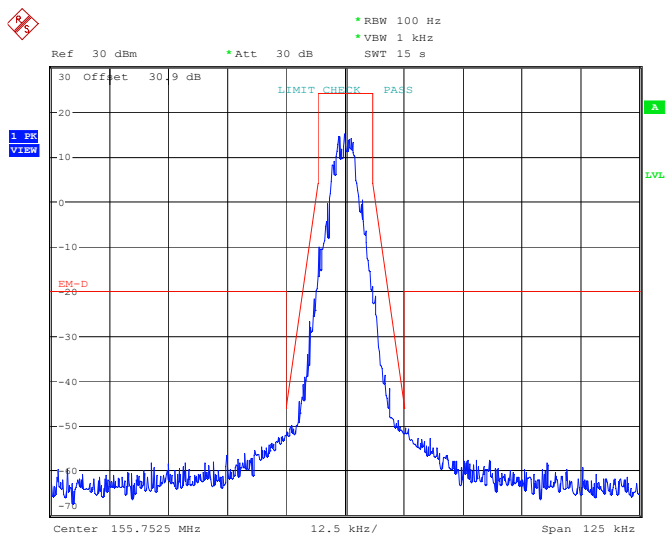
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 17:42:44

Low Power, Occupied Bandwidth - 155.7525MHz (4FSK 12.5kHz (DMR))



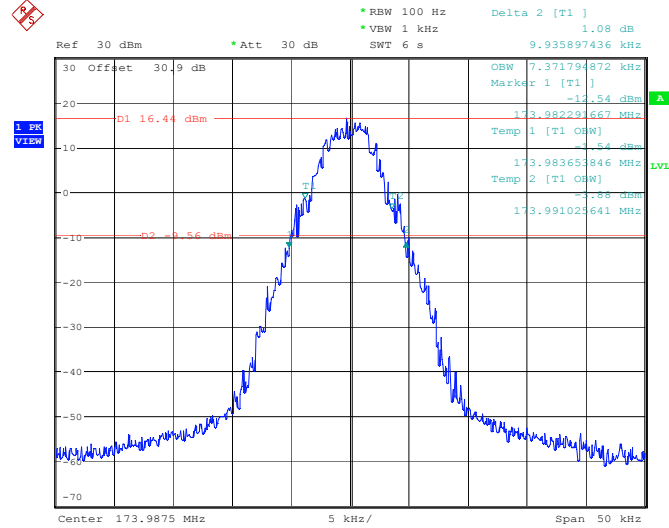
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 17:31:34

Emission Mask D



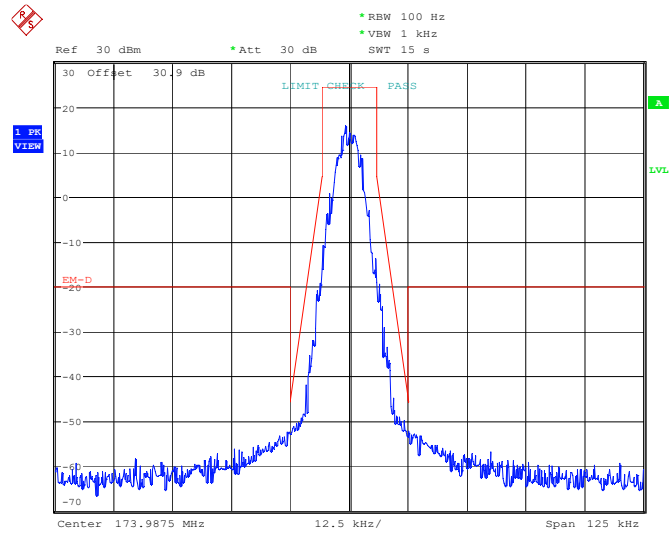
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 17:44:50

Low Power, Occupied Bandwidth - 173.9875MHz (4FSK 12.5kHz (DMR))



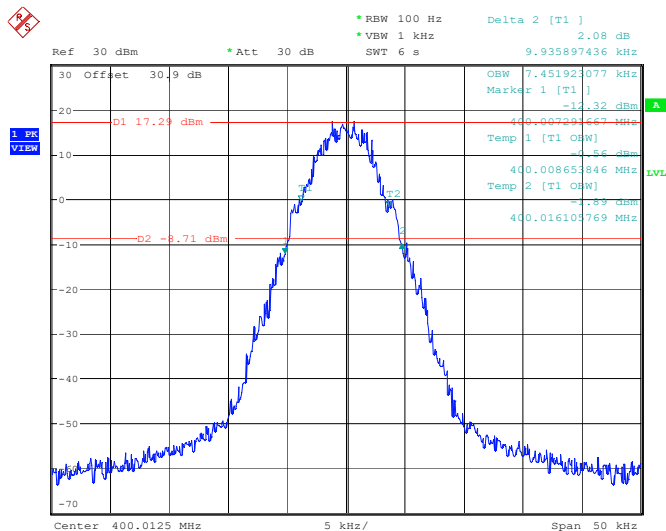
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 17:29:14

Emission Mask D



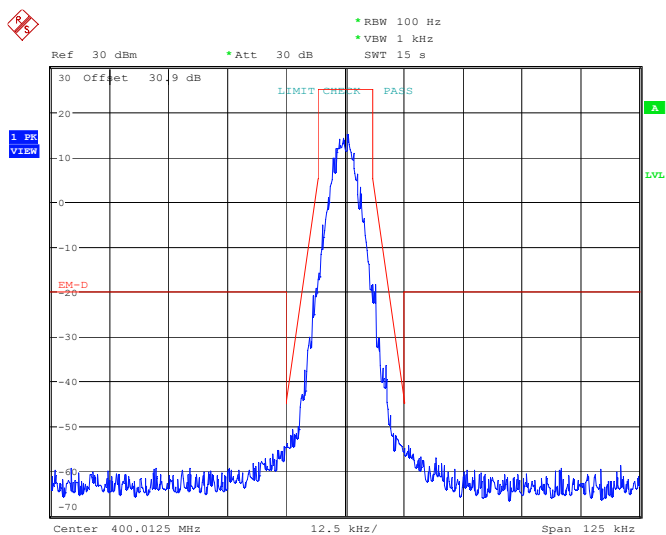
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 17:47:17

Low Power, Occupied Bandwidth - 400.0125MHz (4FSK 12.5kHz (DMR))



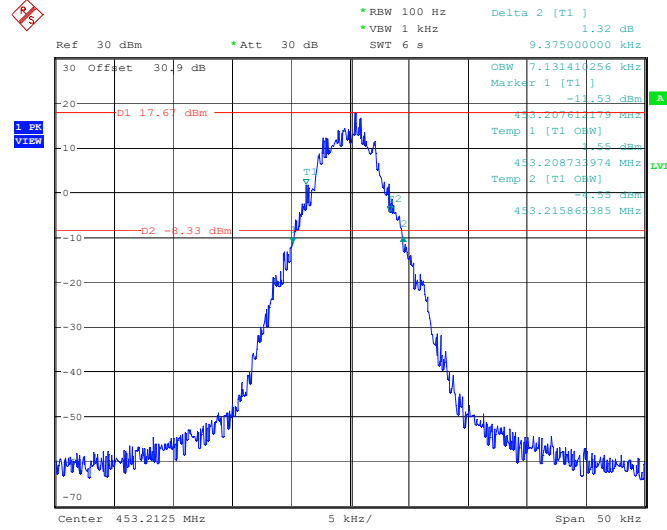
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 17:26:46

Emission Mask D



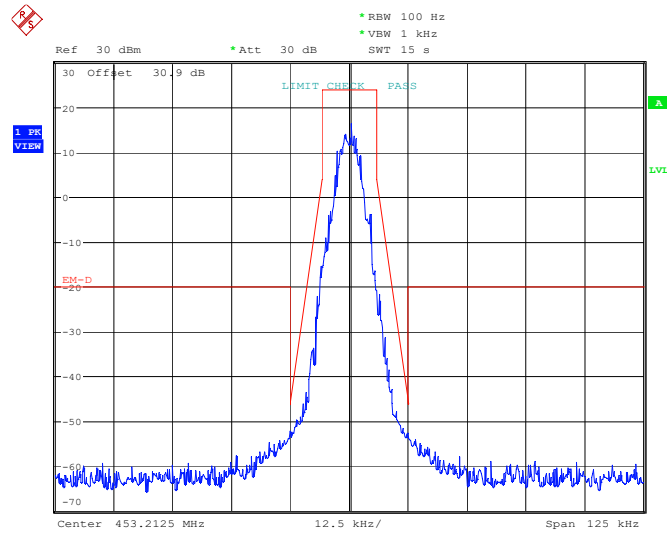
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 17:49:14

Low Power, Occupied Bandwidth - 453.2125MHz (4FSK 12.5kHz (DMR))



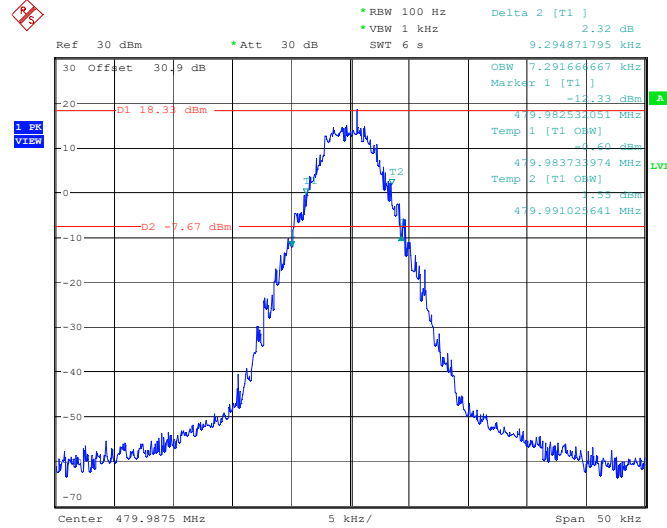
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 17:23:09

Emission Mask D



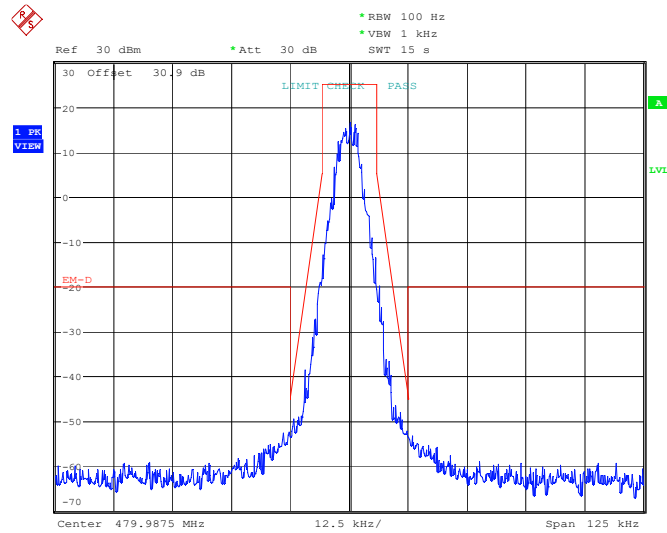
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 17:52:48

Low Power, Occupied Bandwidth - 479.9875MHz (4FSK 12.5kHz (DMR))



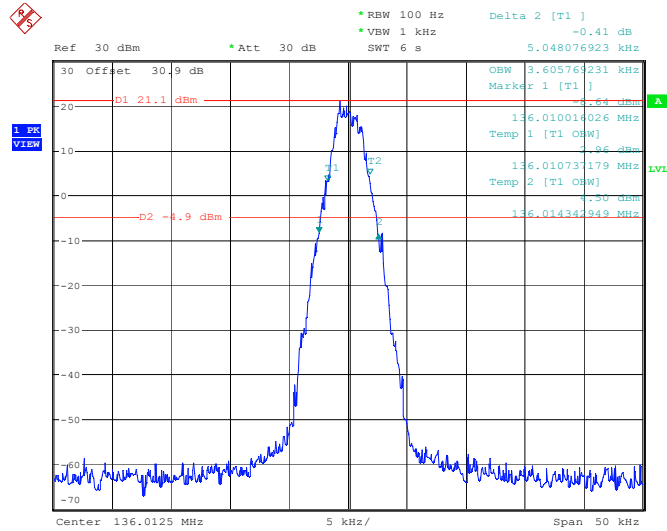
ProjectNo.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 17:20:03

Emission Mask D



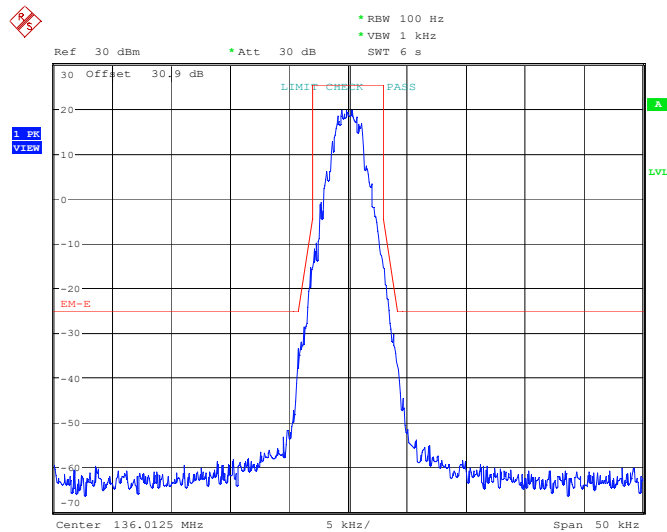
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 17:54:26

Low Power, Occupied Bandwidth - 136.0125MHz (4FSK 6.25kHz (NXDN))



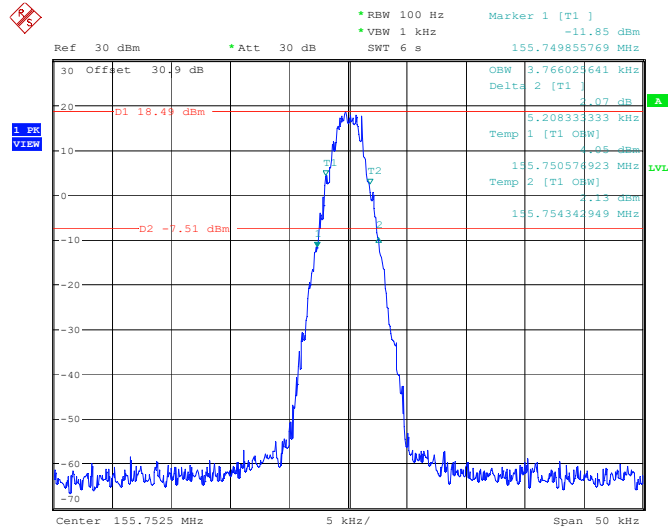
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 25.SEP.2025 19:30:49

Emission Mask E



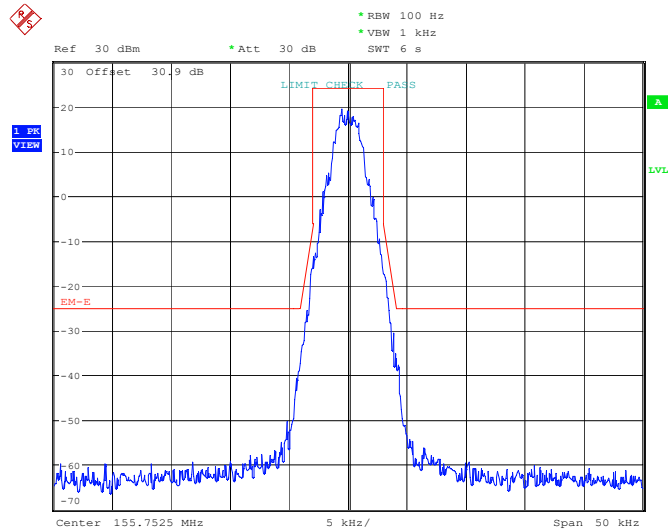
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 25.SEP.2025 19:41:20

Low Power, Occupied Bandwidth - 155.7525MHz (4FSK 6.25kHz (NXDN))



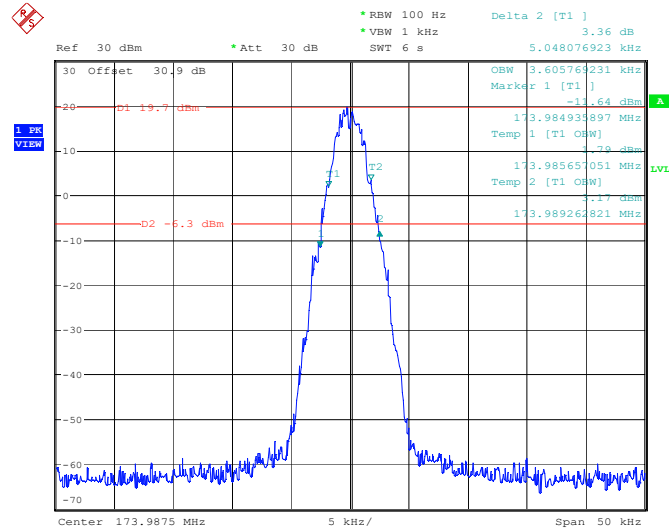
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:28:46

Emission Mask E



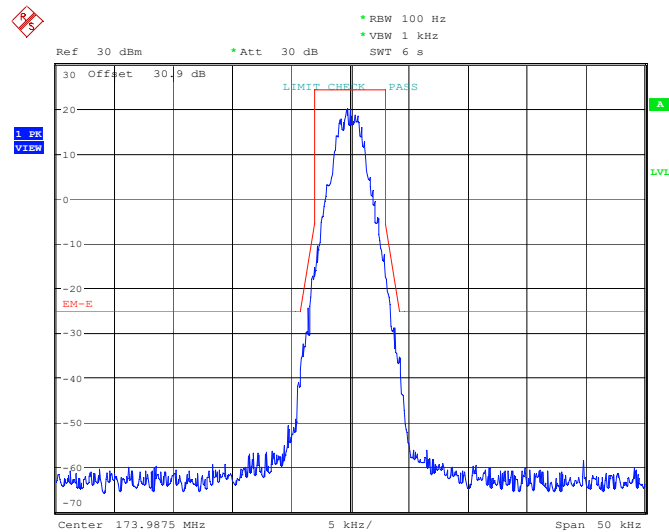
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:44:45

Low Power, Occupied Bandwidth - 173.9875MHz (4FSK 6.25kHz (NXDN))



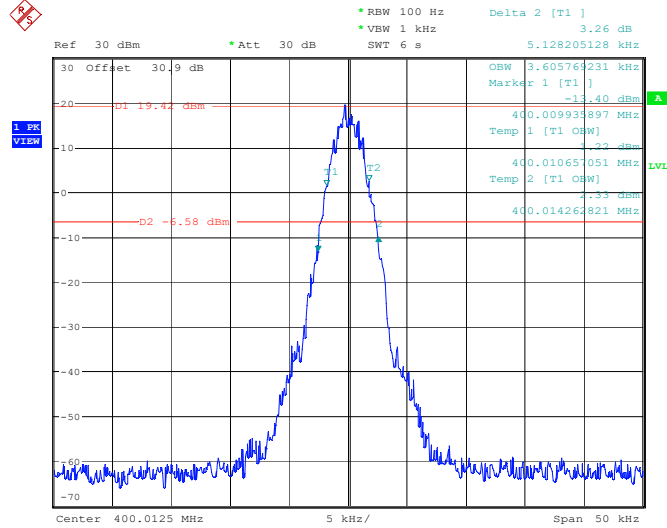
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:26:37

Emission Mask E



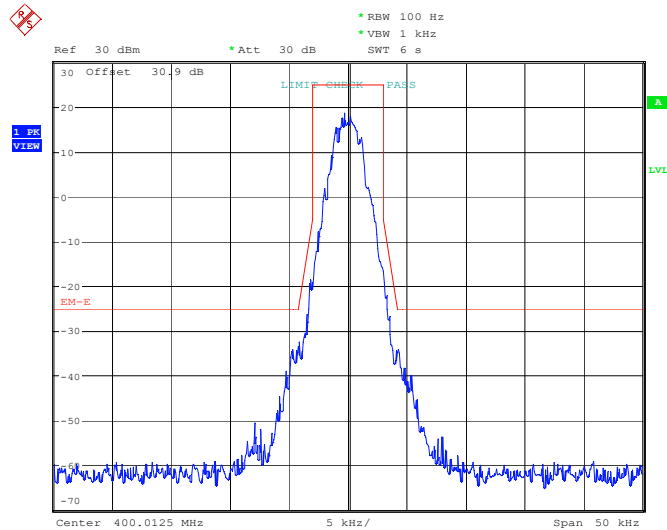
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:47:41

Low Power, Occupied Bandwidth - 400.0125MHz (4FSK 6.25kHz (NXDN))



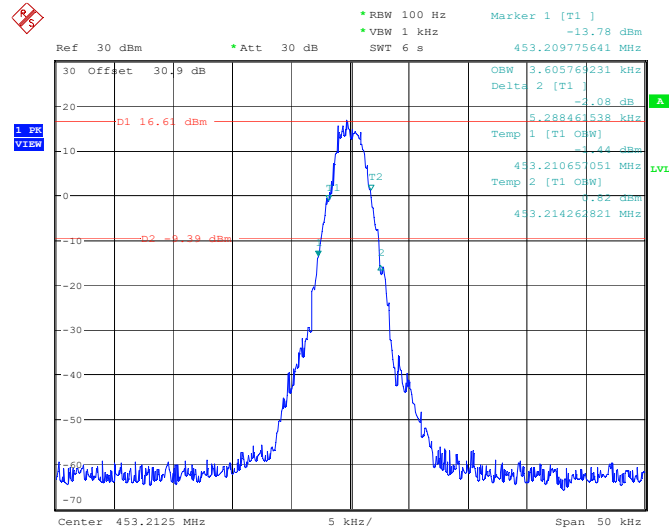
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:24:41

Emission Mask E



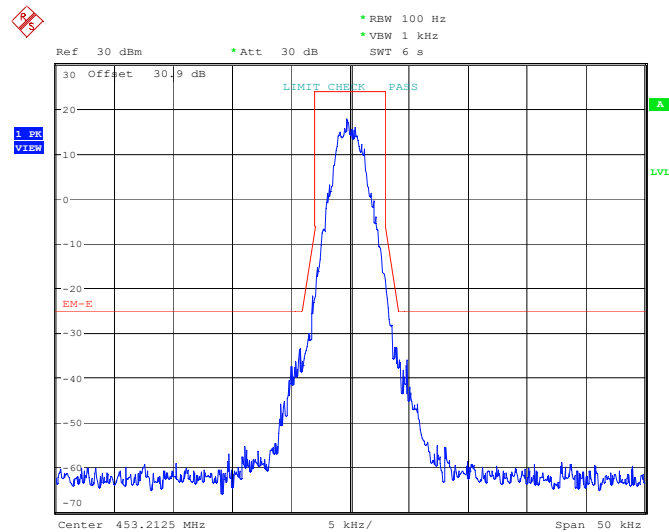
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:51:00

Low Power, Occupied Bandwidth - 453.2125MHz (4FSK 6.25kHz (NXDN))



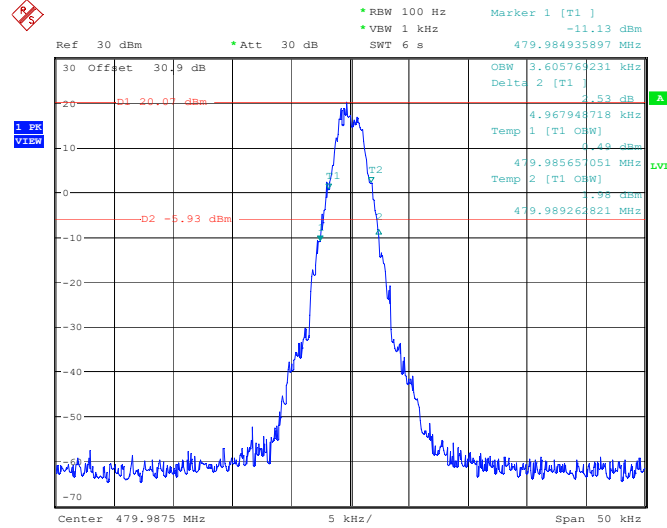
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:22:54

Emission Mask E



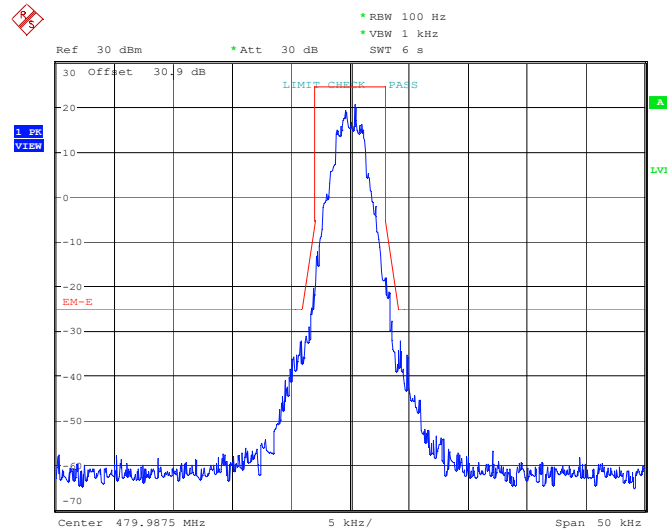
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:53:56

Low Power, Occupied Bandwidth - 479.9875MHz (4FSK 6.25kHz (NXDN))



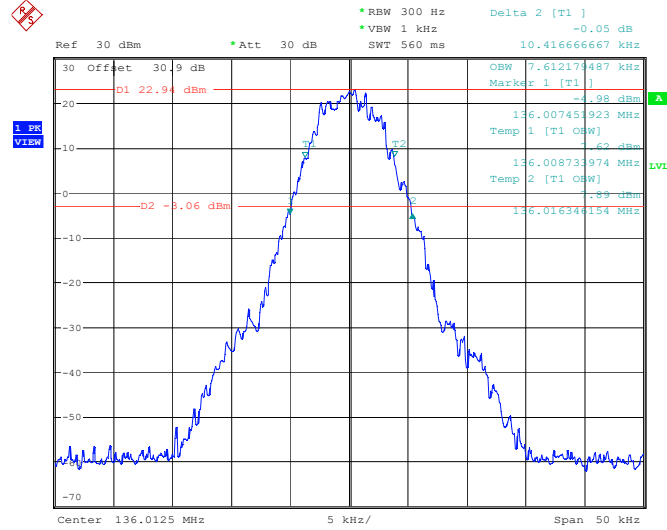
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:20:14

Emission Mask E



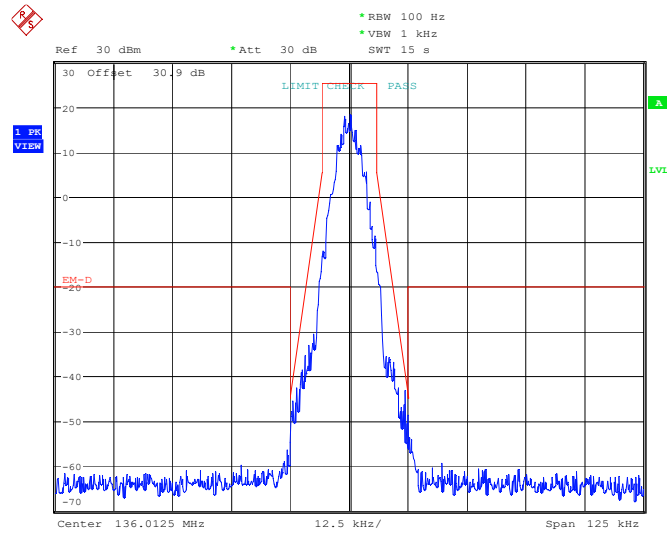
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 25.SEP.2025 19:56:09

Low Power, Occupied Bandwidth - 136.0125MHz (4FSK 12.5kHz (NXDN))



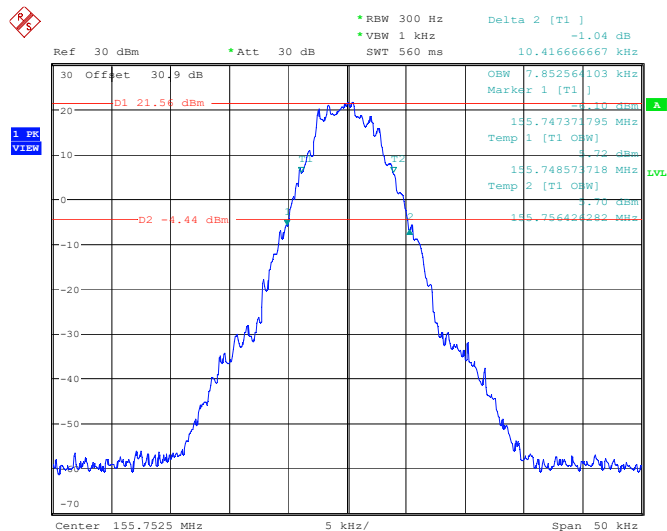
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 16:30:29

Emission Mask D



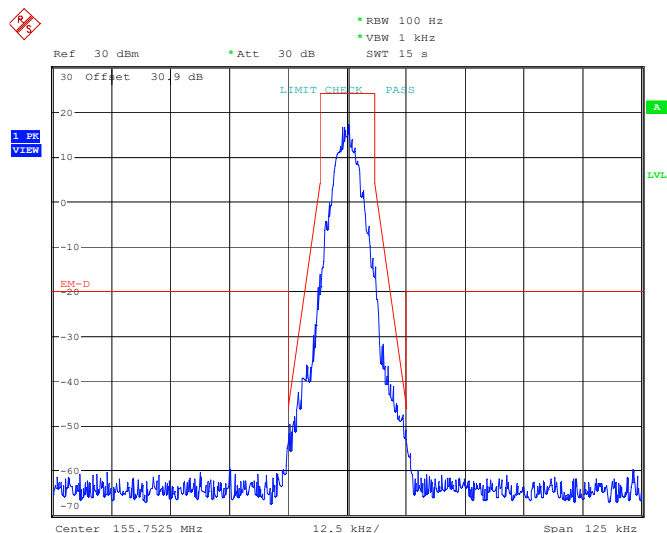
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 18:12:57

Low Power, Occupied Bandwidth - 155.7525MHz (4FSK 12.5kHz (NXDN))



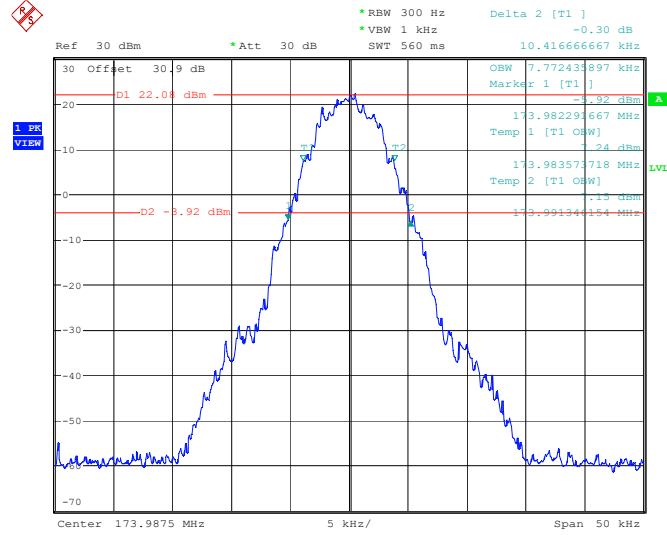
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 16:33:39

Emission Mask D



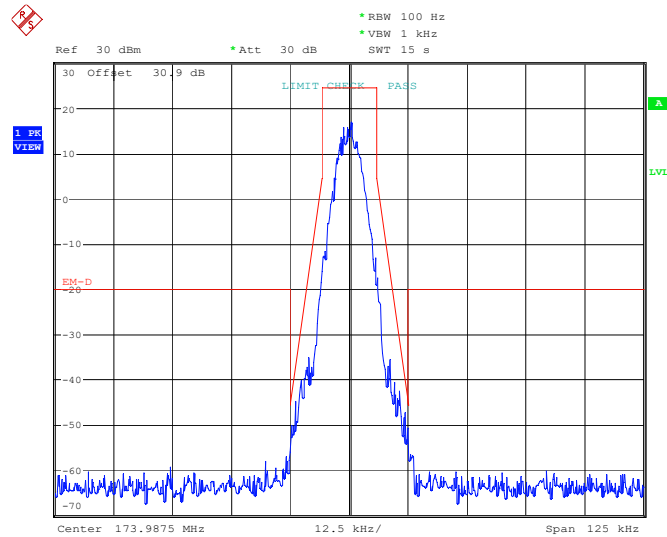
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 18:10:39

Low Power, Occupied Bandwidth - 173.9875MHz (4FSK 12.5kHz (NXDN))



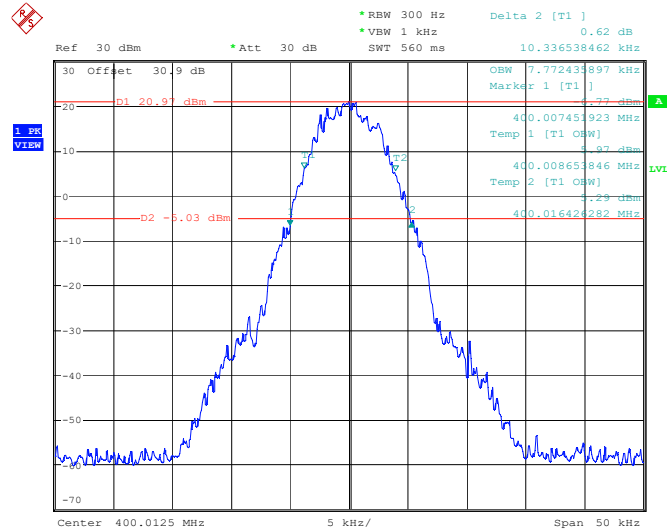
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 16:36:32

Emission Mask D



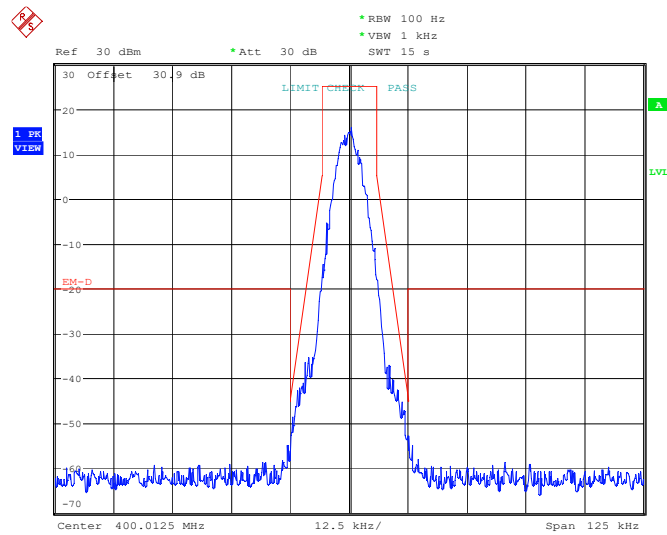
Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 18:07:27

Low Power, Occupied Bandwidth - 400.0125MHz (4FSK 12.5kHz (NXDN))



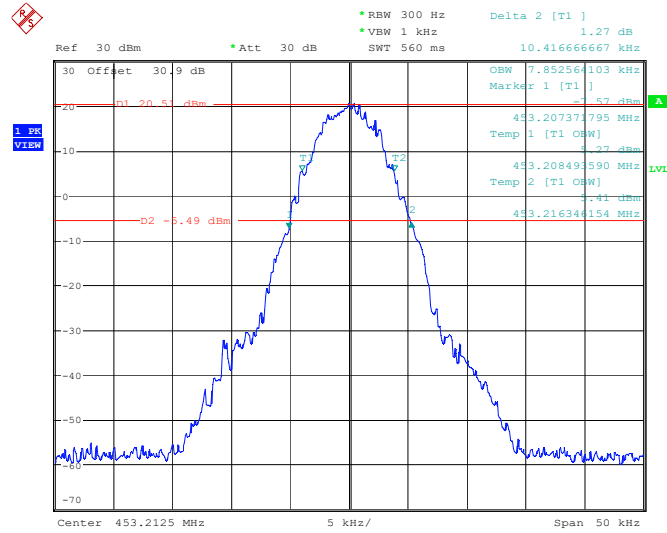
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 16:41:19

Emission Mask D



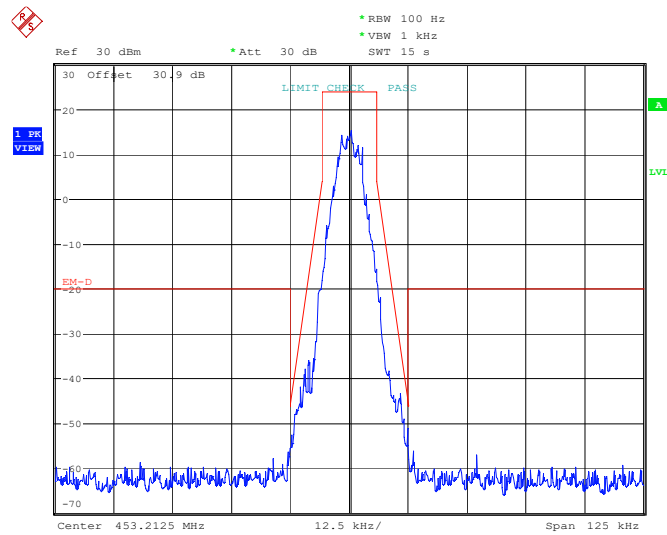
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 18:05:10

Low Power, Occupied Bandwidth - 453.2125MHz (4FSK 12.5kHz (NXDN))



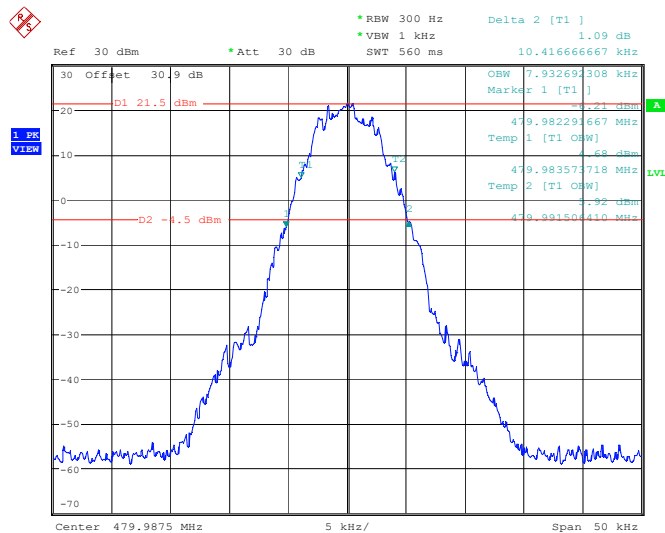
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 16:46:19

Emission Mask D



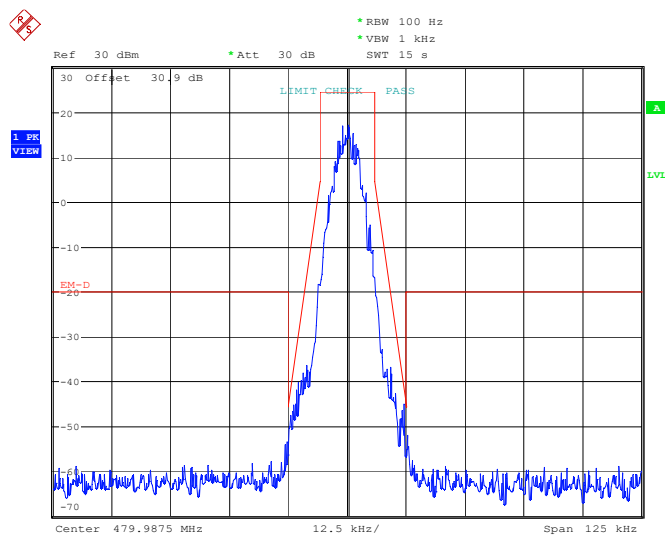
Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 23.SEP.2025 18:03:17

Low Power, Occupied Bandwidth - 479.9875MHz (4FSK 12.5kHz (NXDN))



Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 16:49:22

Emission Mask D



Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 23.SEP.2025 18:01:12

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

Applicable Standard

FCC §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) On any frequency from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625 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 $50 + 10 \log (P)$ dB or 70 dB, whichever is the lesser attenuation.
- (4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

Emission Mask E—6.25 kHz or less channel bandwidth equipment. For transmitters designed to operate with a 6.25 kHz or less bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

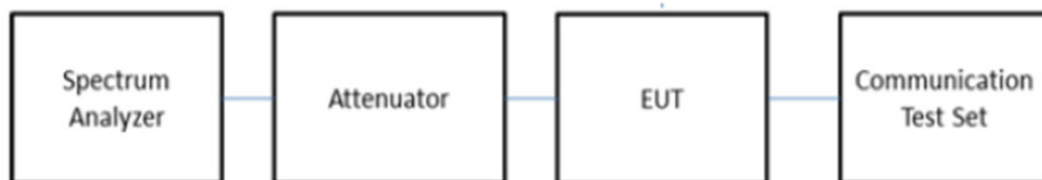
- (1) On any frequency from the center of the authorized bandwidth f_0 to 3.0 kHz removed from f_0 : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 3.0 kHz but no more than 4.6 kHz: At least $30 + 16.67(f_d - 3 \text{ kHz})$ or $55 + 10 \log (P)$ or 65 dB, whichever is the lesser attenuation.
- (3) On any frequency removed from the center of the authorized bandwidth by more than 4.6 kHz: At least $55 + 10 \log (P)$ or 65 dB, whichever is the lesser attenuation.
- (4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

Test Procedure

According to ANSI C63.26-2015 Section 5.7.4:

- a) Set the spectrum analyzer start frequency to the lowest frequency generated by the EUT, without going below 9 kHz, and the stop frequency to the lower frequency covered by the measurements previously performed in 5.7.3. As an alternative, the stop frequency can be set to the value specified in 5.1.1, depending on the EUT operating range, if the resulting plot can clearly demonstrate compliance for all frequencies not addressed by the out-of-band emissions measurements performed as per 5.7.3. b) When using an average power (rms) detector, ensure that the number of points in the sweep $\geq 2 \times (\text{span} / \text{RBW})$. This may require that the measurement range defined by the start and stop frequencies be subdivided, depending on the spectrum analyzer capabilities. This requirement does not apply to peakdetected power measurements. When average power is specified by the applicable regulation, a peakdetector can be utilized for preliminary measurements to accommodate wider frequency spans. Any emissions found in the preliminary measurement to exceed the applicable limit(s) shall be further examined using a power averaging (rms) detector with the minimum number of measurement points as defined above.
- c) The sweep time should be set to auto-couple for performing peak-detector measurements. For measurements that use a power averaging (rms) detector, the sweep time shall be set as described for outof-band emissions measurements in item d) of 5.7.3.
- d) Identify and measure the highest spurious emission levels in each frequency range. It is not necessary to re-measure the out-of-band emissions as a part of this test. Record the frequencies and amplitudes corresponding to the measured emissions and capture the data plots.
- e) Repeat step b) through step d) for the upper spurious emission frequency range if not already captured by a wide span measurement performed as per the alternative provided in step a). The upper frequency for this measurement is defined in 5.1.1 as a function of the EUT operating range.
- f) Compare the results with the corresponding limit in the applicable regulation.
- g) The test report shall include the data plots of the measuring instrument display and the measured data.

EUT Setup Block Diagram



Test Data

Test Mode:	Transmitting	Test Engineer:	Lucas Lin
Test Date:	2025-09-22	Test Result:	Compliant

Enviroment Conditions:					
Temperature: (°C)	22.9	Relative Humidity: (%)	52	ATM Pressure: (kPa)	100.1

Please refer to following test plots.

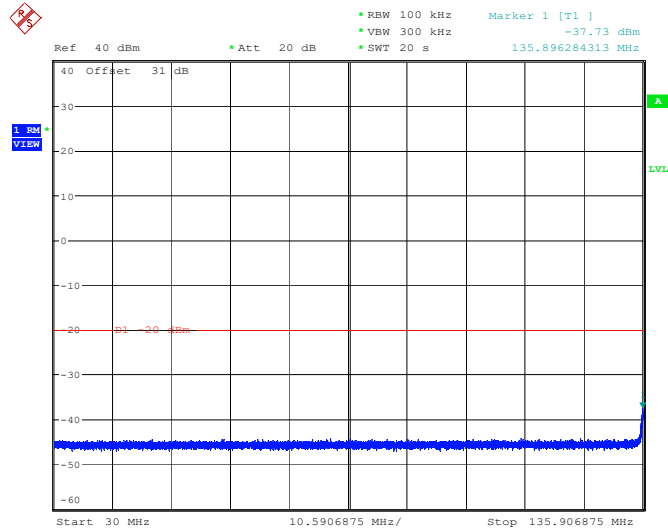
Note:

Test only was performed at high power level.

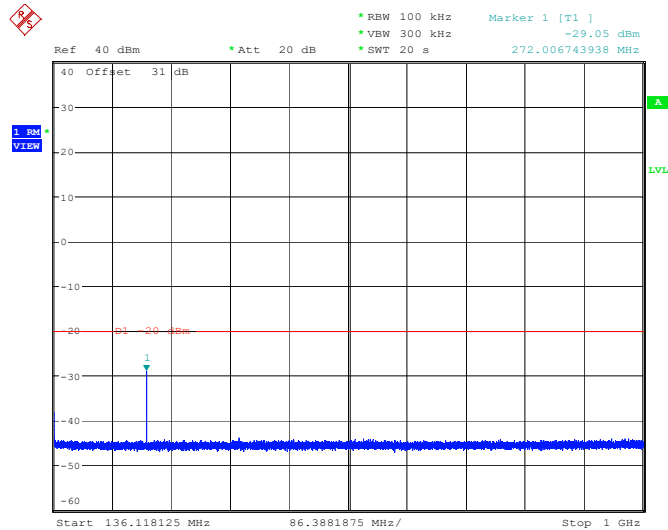
The 31 dB is the Insertion loss of the RF cable, Attenuators, which was offset into the Spectrum Analyzer.

Conducted Spurious Emissions at Antenna Port

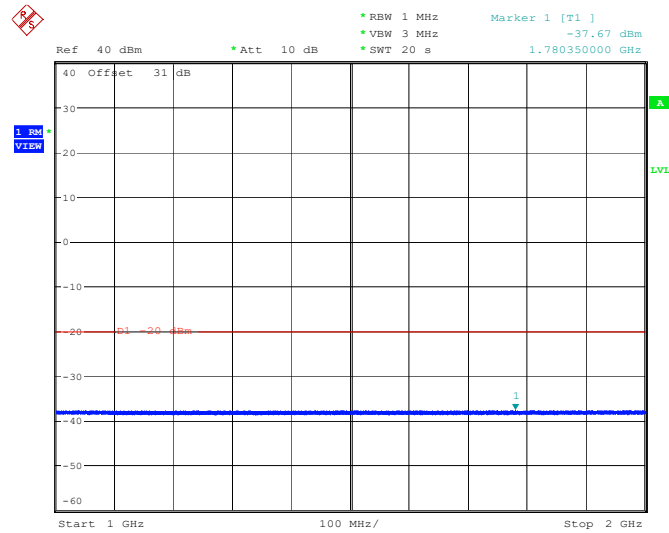
High Power, 136.0125MHz, (FM 12.5kHz)



Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 15:00:12

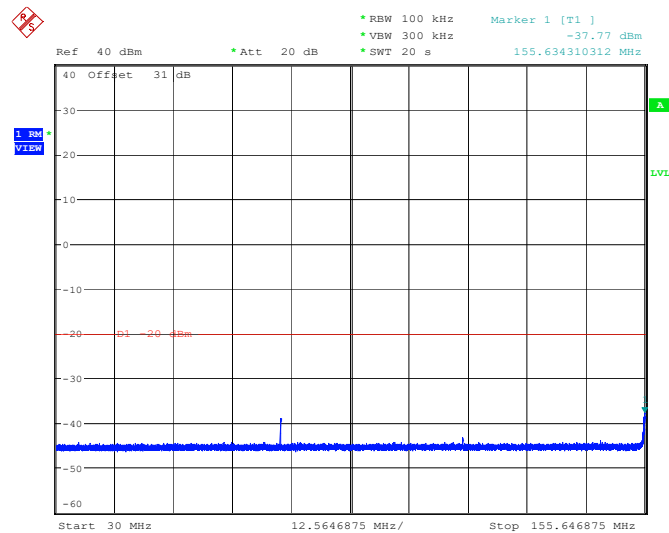


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 15:01:39

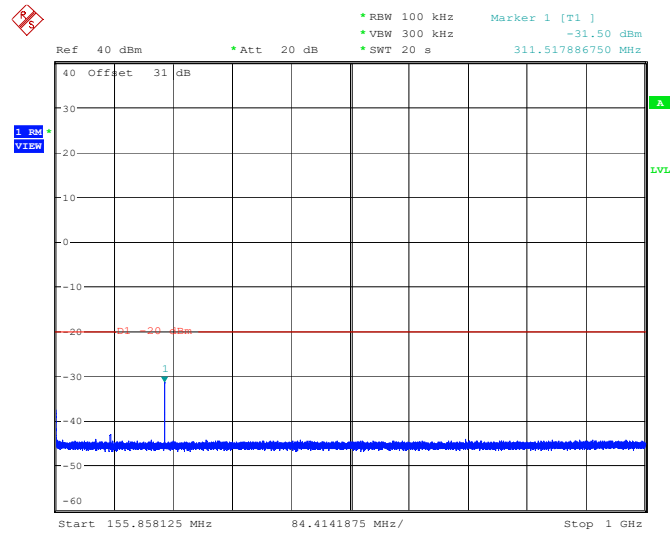


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 17:46:08

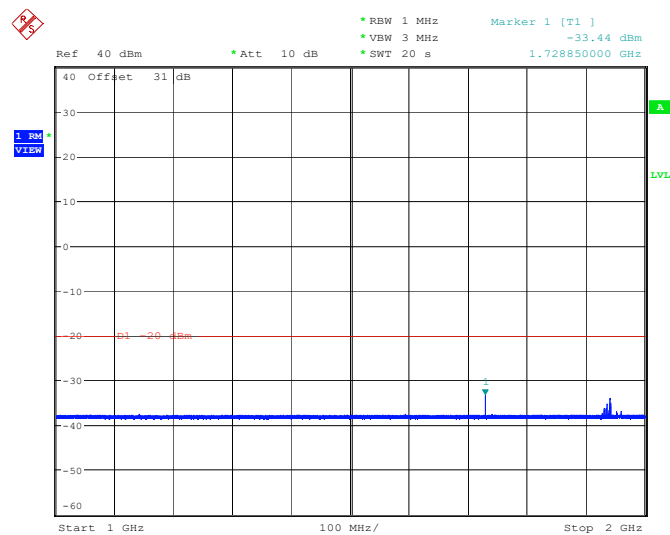
High Power, 155.7525MHz, (FM 12.5kHz)



Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 15:05:37

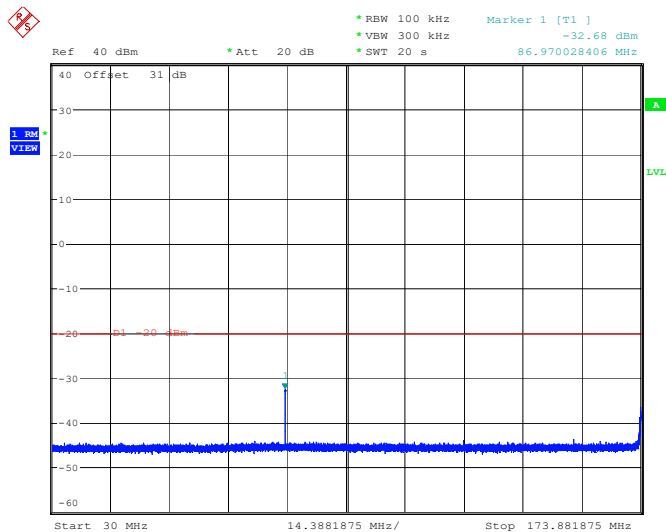


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 15:03:12

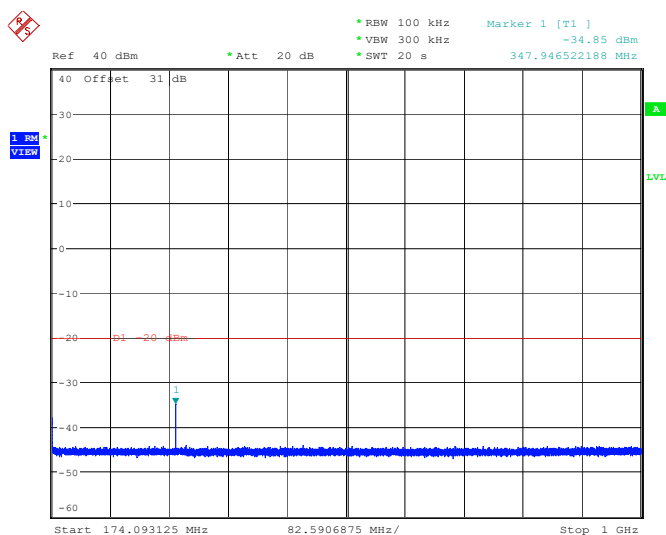


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 17:44:59

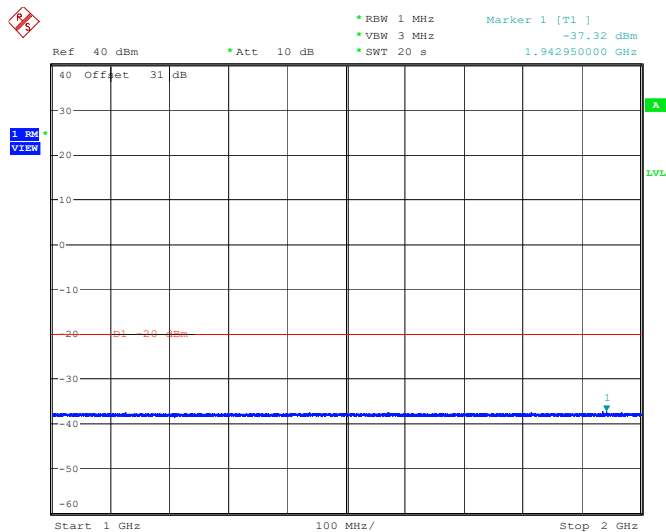
High Power, 173.9875MHz, (FM 12.5kHz)



Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 22.SEP.2025 15:25:33

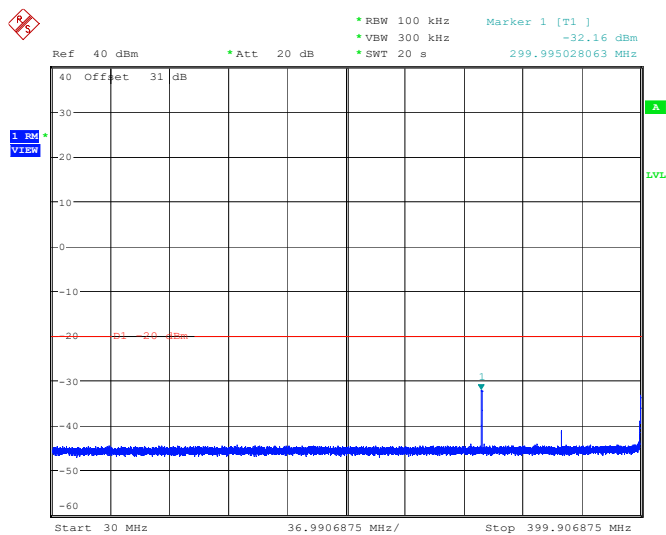


Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 22.SEP.2025 15:26:50

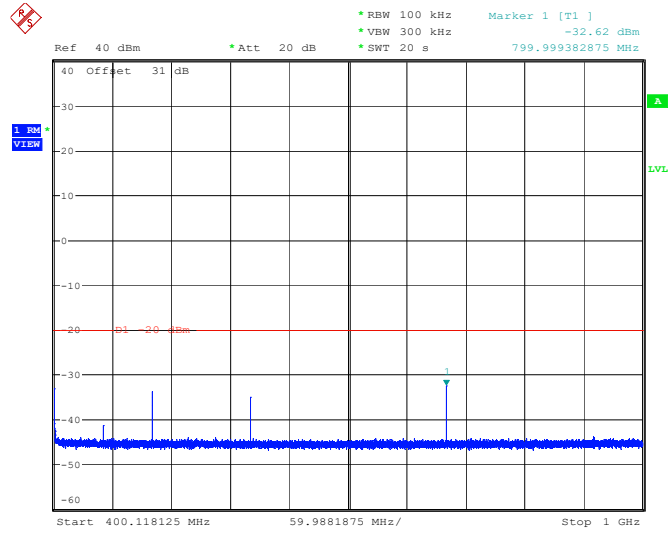


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 17:43:53

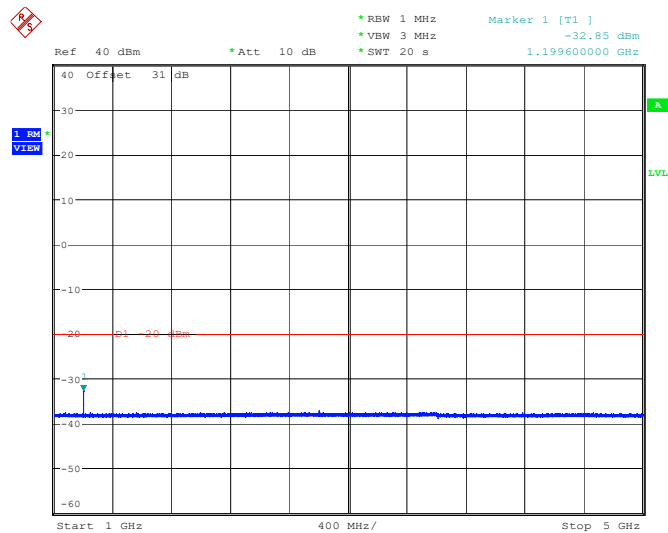
High Power, 400.0125MHz, (FM 12.5kHz)



Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 15:53:32

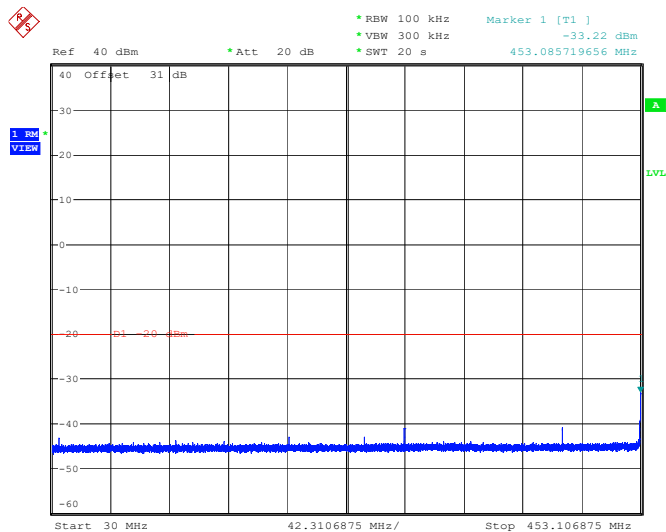


Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 22.SEP.2025 15:54:37

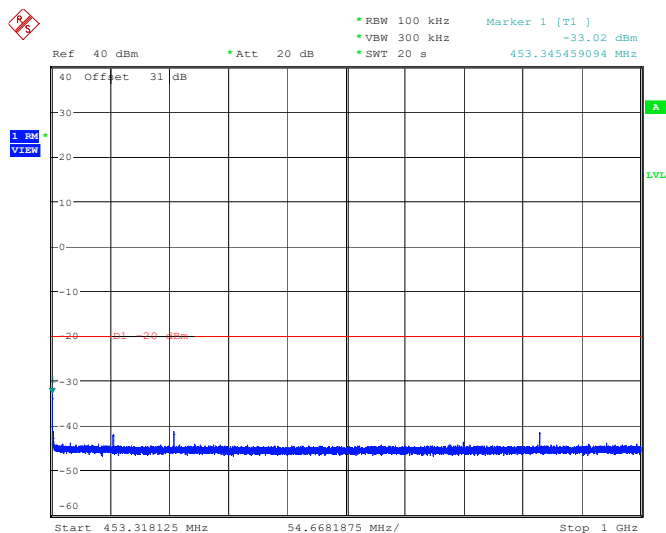


Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 22.SEP.2025 17:42:16

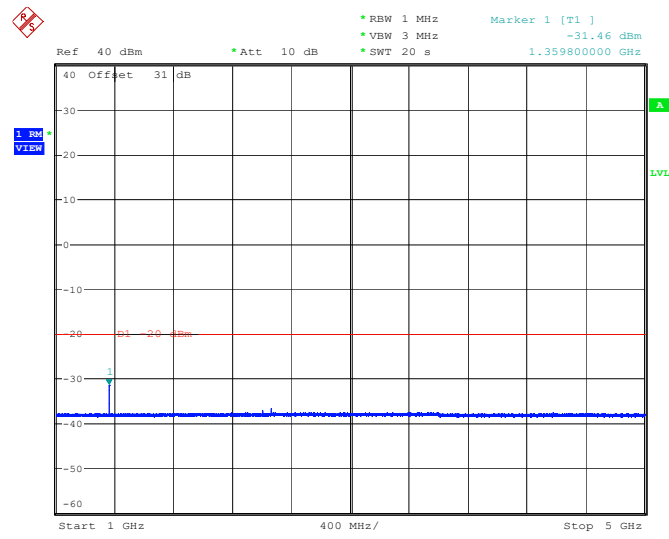
High Power, 453.2125MHz, (FM 12.5kHz)



Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 22.SEP.2025 15:57:24

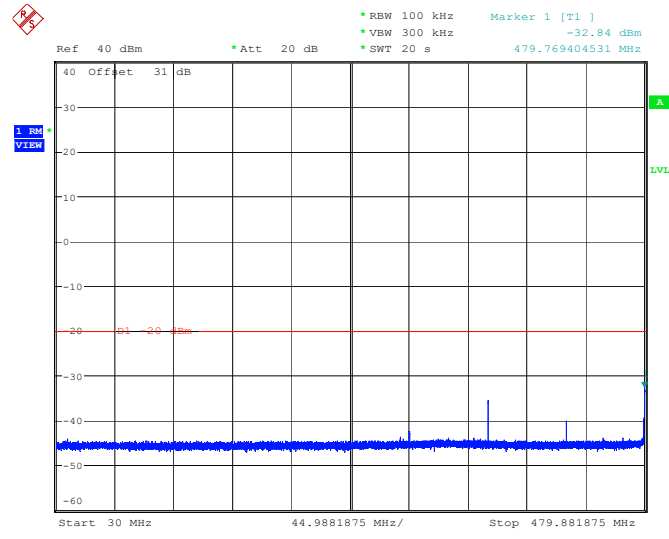


Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 22.SEP.2025 15:55:56

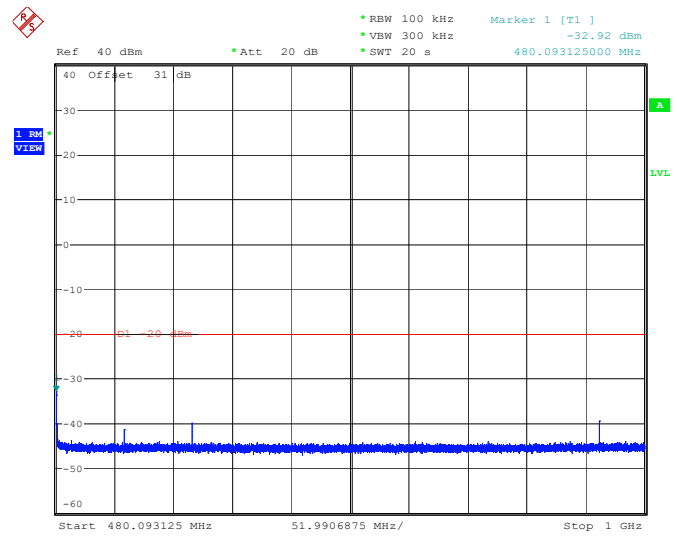


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 17:41:12

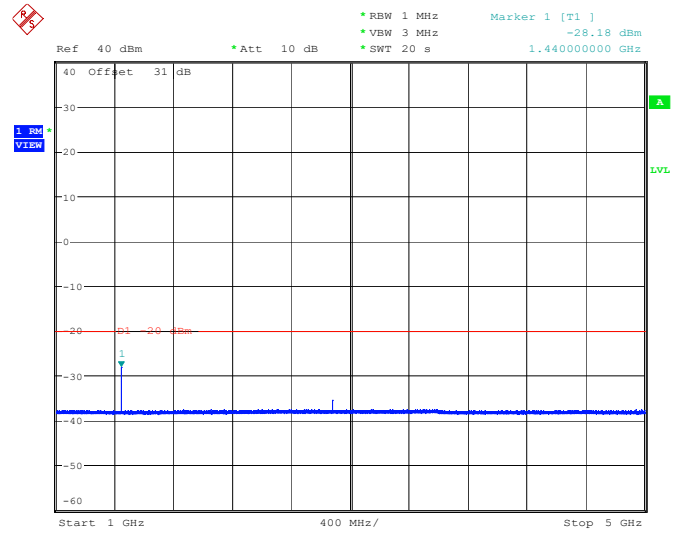
High Power, 479.9875MHz, (FM 12.5kHz)



Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 16:00:26

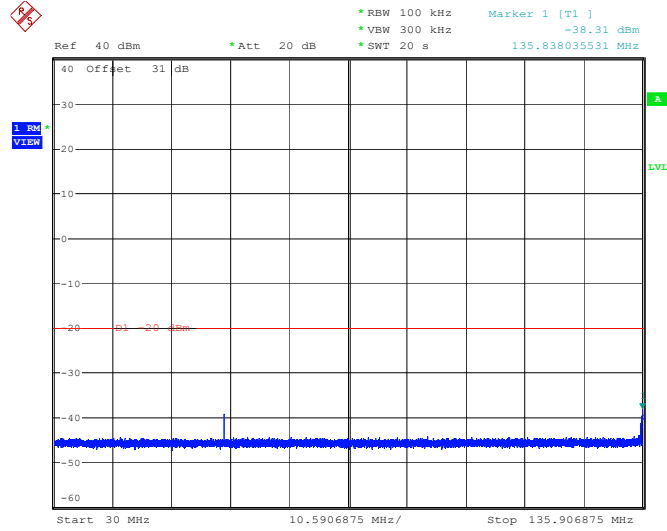


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 16:01:34

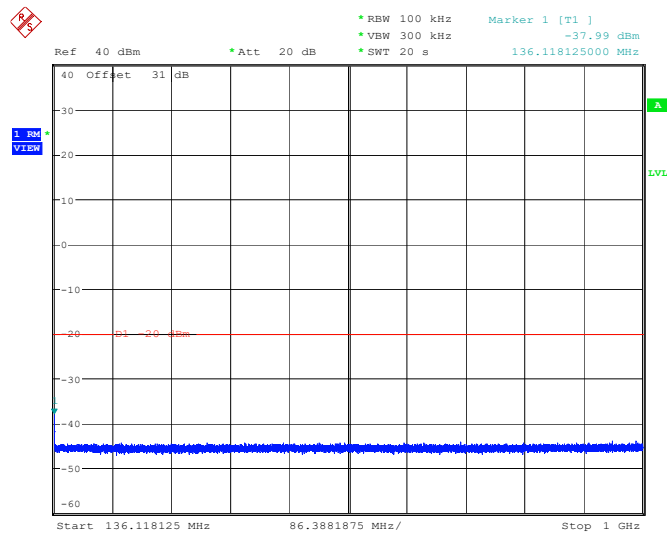


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 17:39:53

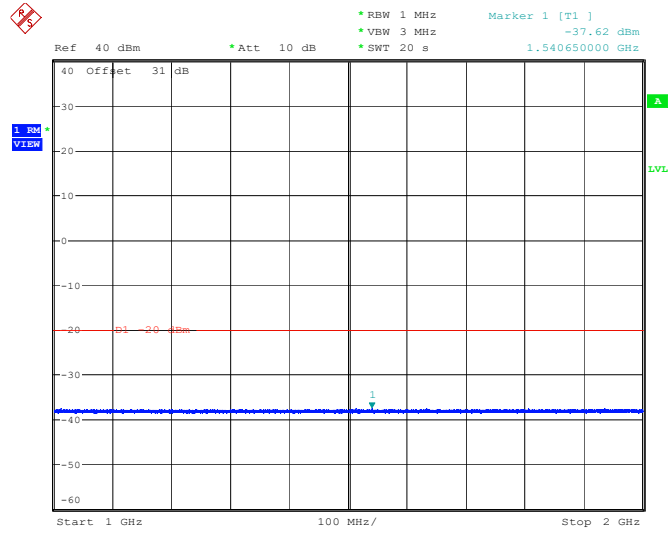
High Power, 136.0125MHz, (4FSK 12.5kHz (DMR))



Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 22.SEP.2025 16:22:38

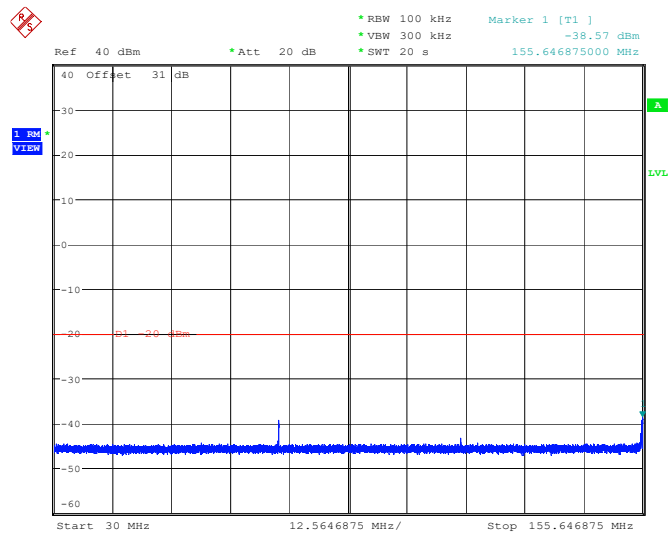


Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 22.SEP.2025 16:23:44

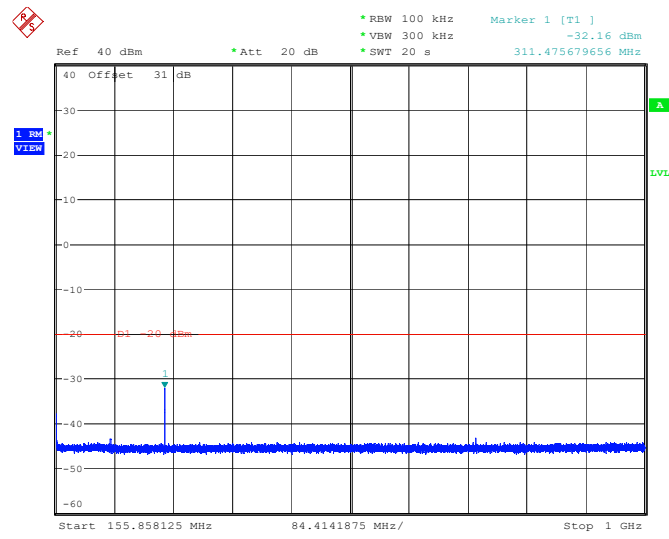


Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 22.SEP.2025 17:32:39

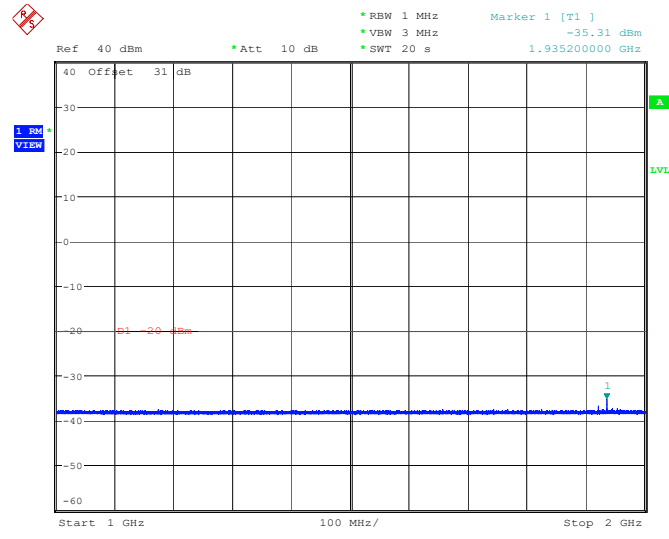
High Power, 155.7525MHz, (4FSK 12.5kHz (DMR))



Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 22.SEP.2025 16:20:57

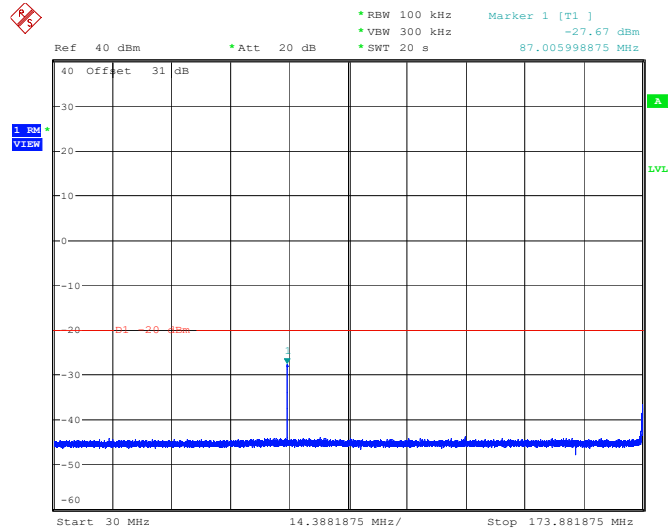


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 16:19:53

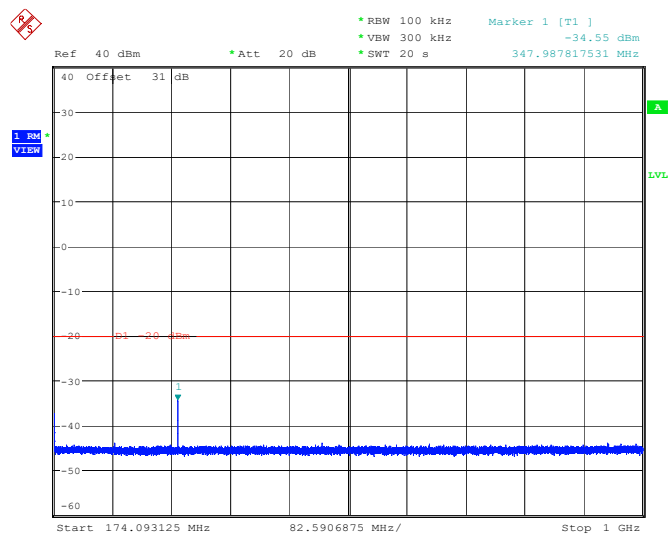


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 17:33:46

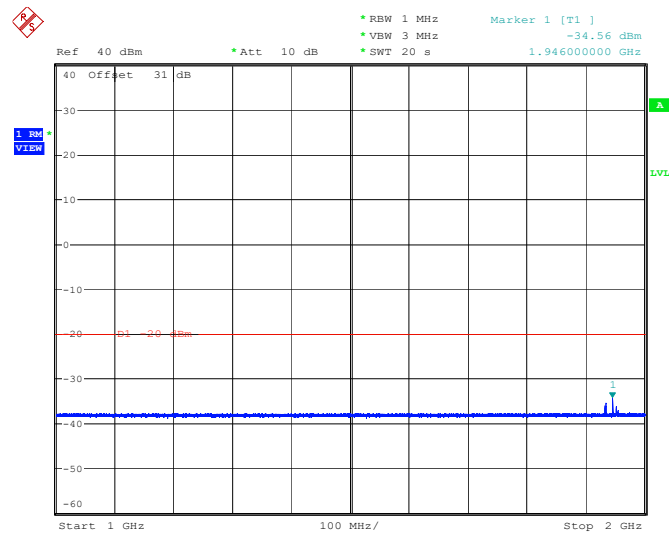
High Power, 173.9875MHz, (4FSK 12.5kHz (DMR))



Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 16:11:40

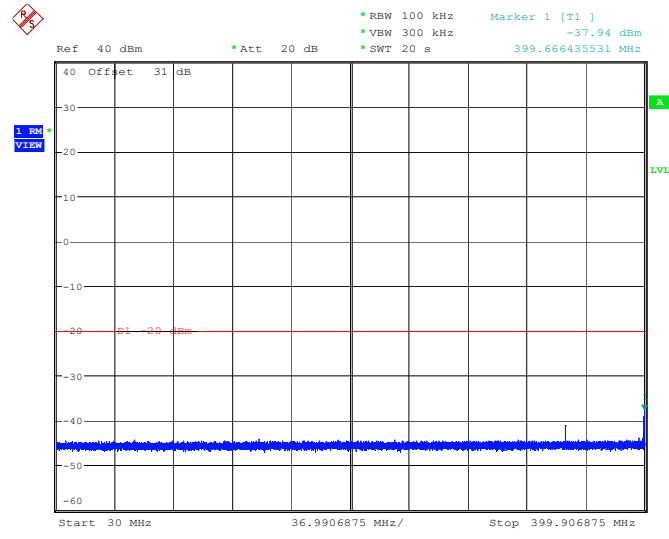


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 16:13:05

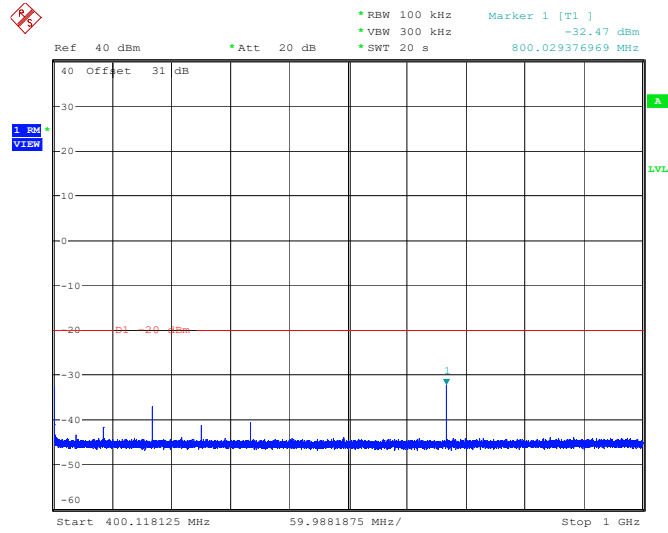


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 17:35:19

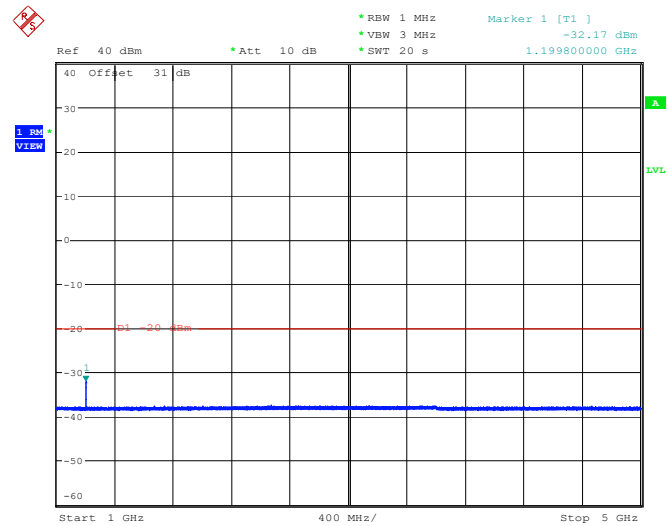
High Power, 400.0125MHz, (4FSK 12.5kHz (DMR))



Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 16:09:24

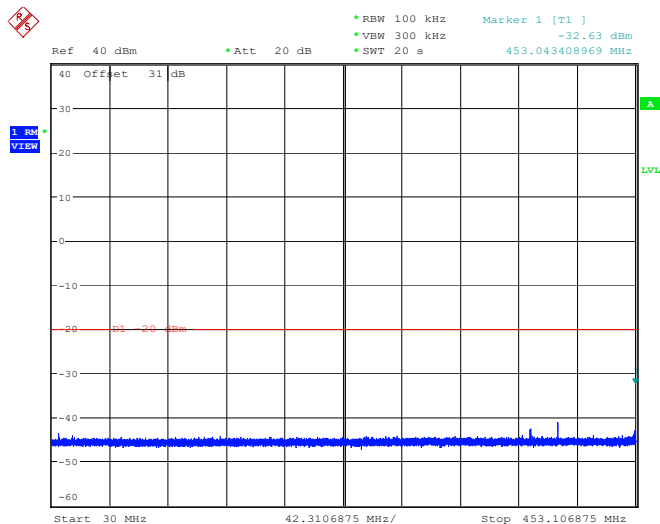


Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 22.SEP.2025 16:08:21

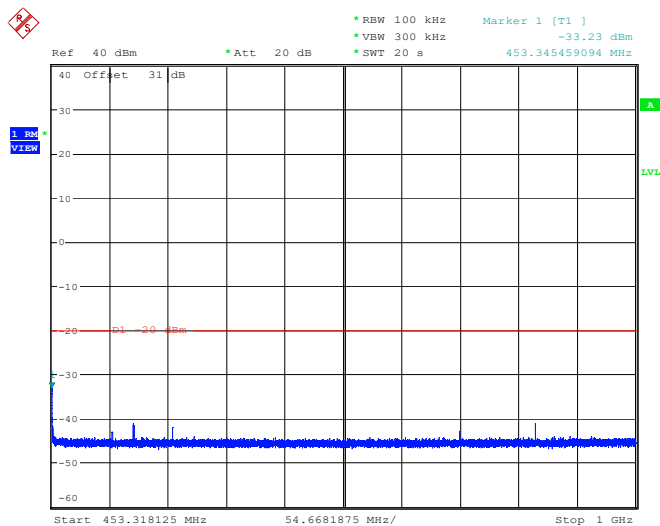


Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 22.SEP.2025 17:36:25

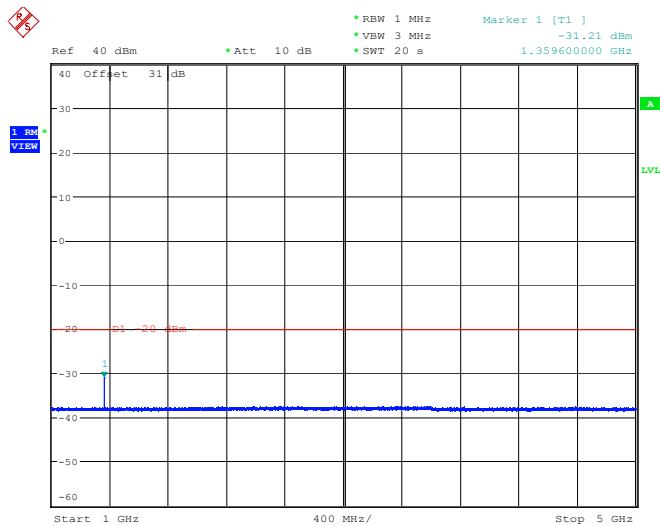
High Power, 453.2125MHz, (4FSK 12.5kHz (DMR))



Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 16:05:55

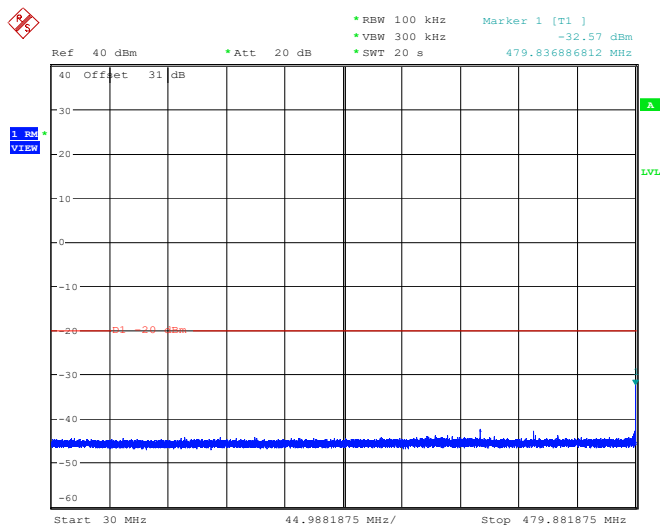


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 16:06:58

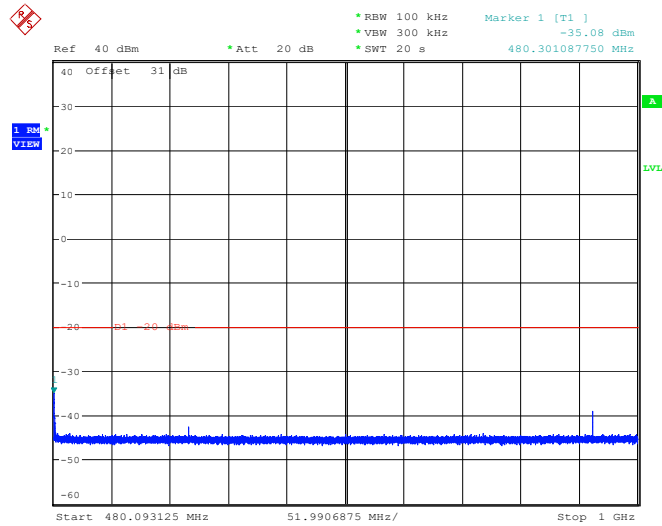


Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 22.SEP.2025 17:37:32

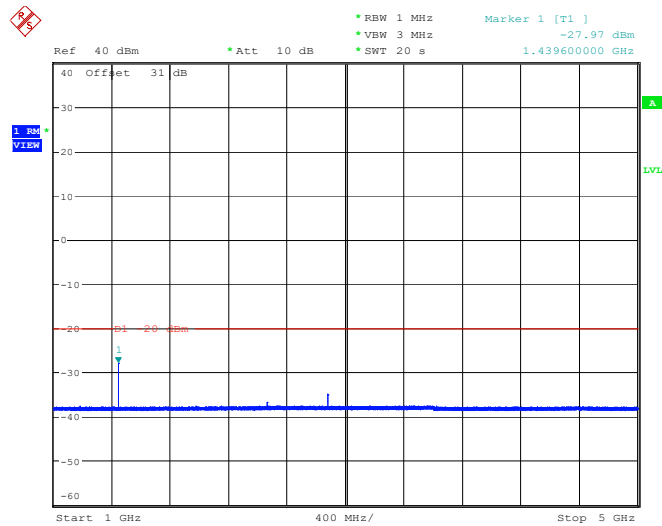
High Power, 479.9875MHz, (4FSK 12.5kHz (DMR))



Project No.:2507X13489E-RF Tester:Lucas Lin
 Date: 22.SEP.2025 16:04:38

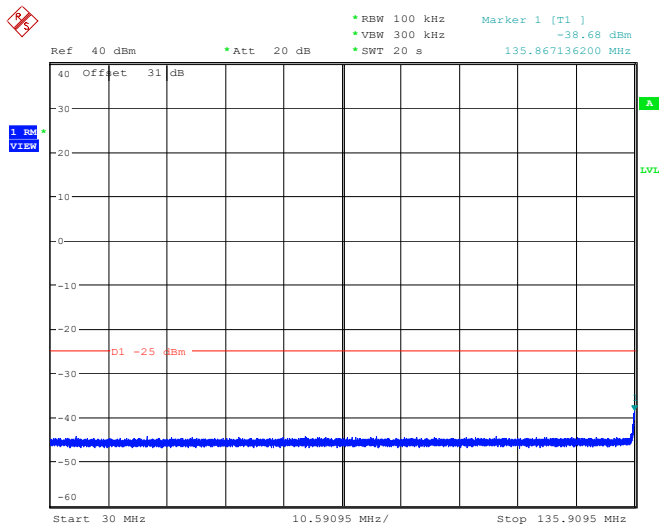


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 16:03:29

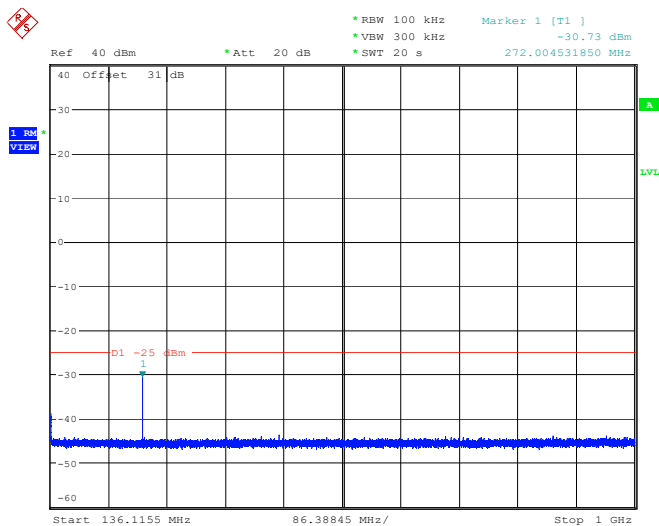


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 17:38:38

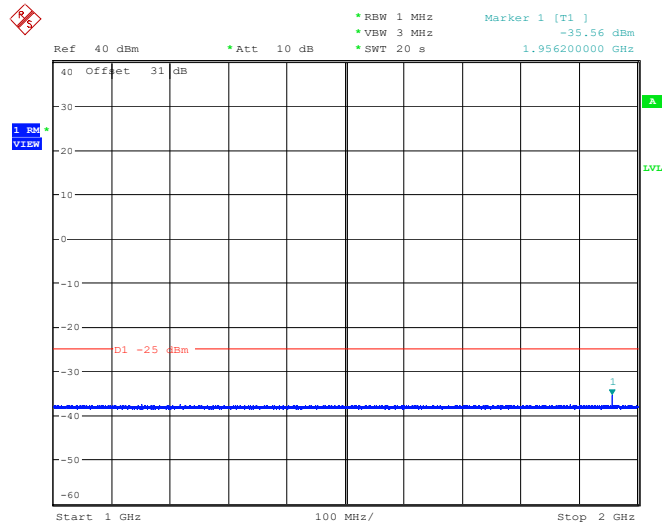
High Power, 136.0125MHz, (4FSK 6.25kHz (NXDN))



Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 16:57:12

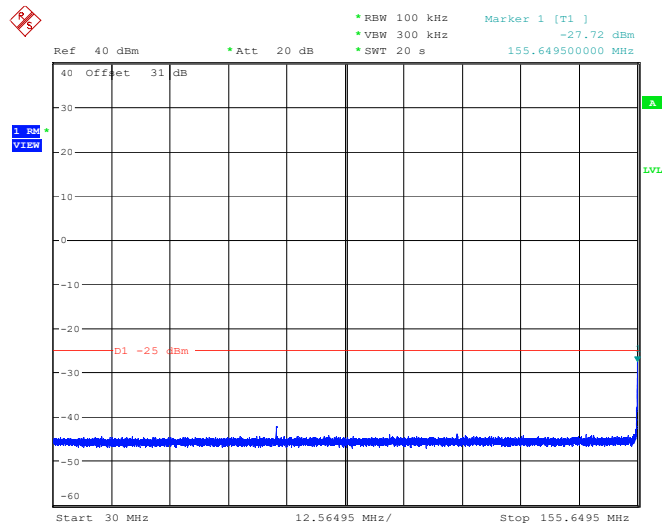


Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 16:58:18



Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 17:00:13

High Power, 155.7525MHz, (4FSK 6.25kHz (NXDN))



Project No.:2507X13489E-RF Tester:Lucas Lin
Date: 22.SEP.2025 16:56:02