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# CLASS B INDUSTRIAL BOOSTER

# FCC PART 90 TEST REPORT

| | |
|---|---|
| Applicant | FIPLEX COMMUNICATIONS INC. |
| Address | 7331 N.W. 54TH STREET<br>MIAMI FL 33166 USA |
| FCC ID | P3TDHS37-R |
| IC | 8986A-DHS37R |
| Model Number | DHS37-R |
| Product Description | PS800 DIGITAL REMOTE UNIT |
| Date Sample Received | 10/6/2017 |
| Date Tested | 11/11/2017 |
| Tested By | Franklin Rose |
| Approved By | Sid Sanders |
| Test Results | ☒ PASS ☐ FAIL |

| Report Number | Version Number | Description | Issue Date |
|---|---|---|---|
| 1782AUT17TestReport | Rev1 | Initial Issue | 11/13/2017 |
| 1782AUT17TestReport | Rev2 | Clerical Revisions | 11/16/2017 |

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## GENERAL REMARKS

The attached report shall not be reproduced except in full without the written permission of Timco Engineering Inc.

### Summary

The device under test does:

☒ Fulfill the general approval requirements as identified in this test report and was selected by the customer.

☐ Not fulfill the general approval requirements as identified in this test report

### Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.

I attest that the necessary measurements were made at:

**Timco Engineering Inc.**
**849 NW State Road 45**
**Newberry, FL 32669**

**Tested by:**
Name and Title: Franklin Rose, Testing Technician/Project Manager

**Date: 11/12/2017**

**Reviewed and approved by:** _____
Name and Title: Sid Sanders Engineer

**Date: 11/13/2017**

## EUT DESCRIPTION

| | |
|---|---|
| **EUT Description** | PS800 DIGITAL REMOTE UNIT |
| **FCC ID** | P3TDHS37-R |
| **Model Number** | DHS37-R |
| **Operating Frequency** | 851 MHz, 860 MHz, 869 MHz |
| **Type of Emission** | 16K0F3E, 11K3F3E, 8K10F1E, 8K10F1W, 8K30F1E, 4K00F1E, 5K76G1E, 9K80D7W, 20K0D1E, 7K60FXE |
| **EUT Power Source** | ☒ 110–120Vac/50– 60Hz |
| | ☐ DC Power 27V |
| | ☐ Battery Operated Exclusively |
| **Test Item** | ☐ Prototype |
| | ☒ Pre-Production |
| | ☐ Production |
| **Type of Equipment** | ☒ Fixed |
| | ☐ Mobile |
| | ☐ Portable |
| **Test Conditions** | The temperature was 26ºC with a relative humidity of 50%. |
| **Revision History to the EUT** | None |
| **Test Exercise** | The EUT was operated in a normal mode. |
| **Applicable Standards** | FCC CFR 47 Part 90.219, KDB 935210 D05 v01r01, 971168 D01 v02r02 |
| **Test Facility** | Timco Engineering Inc. at 849 NW State Road 45 Newberry, FL 32669 USA. |

## TEST RESULTS SUMMARY

| FCC RULE PART | Limit | TEST DESCRIPTION | RESULT PASS/FAIL |
|---|---|---|---|
| **47CFR90.219(e)(1) AND KDB 935210-D05 v01r01 §4.5** | Reporting Only | Input/output power | **PASS** |
| **KDB 935210-D05 v01r01 §4.2** | Reporting Only | AGC Threshold | **PASS** |
| **KDB 935210-D05 v01r01 §4.3** | Reporting Only | Out-Of-band rejection | **PASS** |
| **47CFR90.219(e)(4) AND KDB 935210-D05 v01r01 §4.4** | Reporting Only | Input-versus-output signal comparison | **PASS** |
| **47CFR90.219(e)(2) AND KDB 935210-D05 v01r01 §4.6** | 9 dB | Noise Figure | **PASS** |
| **47CFR90.210 AND KDB 935210-D05 v01r01 §4.7.2** | -13 dBm | Out-of-band/out-of-block Intermodulation | **PASS** |
| **47CFR90.219(e)(3) AND KDB 935210-D05 v01r01 §4.7.3** | -13 dBm | Spurious Emissions Conducted | **PASS** |
| **47CFR90.213 AND KDB 935210-D05 v01r01 §4.8** | Refer to Table | Frequency Stability | **NOT REQUIRED** |
| **47CFR90.210 AND KDB 935210-D05 v01r01 §4.9** | -13 dBm | Spurious emissions radiated | **PASS** |

## RF POWER OUTPUT and AMPLIFIER GAIN. §4.5

**Rule Part No.:** Part 2.1046(a), Part 90.219 (e) (1)

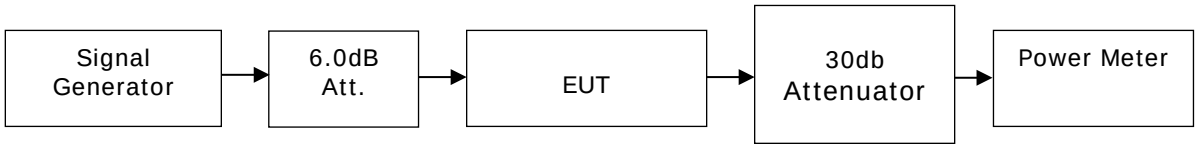
**Requirements:** 5.0Watts ERP

**Procedure:** KDB935210 Measurement Guidance for Industrial Boosters
§ 4.5.1 General
§ 4.5.2 Determining Amplifier/Booster Gain
§ 4.5.4 Power Measurement Method 2: Using a power meter

The Input and Output power levels were recorded and the gain calculated using the following formula:

$Gain_{dB} = Output\ Power_{dBm} - Input\ Power_{dBm}$

**Setup Diagram:**




**Test Data: Downlink Measurement Table**

| Mode | AGC | Input Freq (MHz) | Input Power (dBm) | Output Power (dBm) | Limit (dBm) | Margin (dB) | Gain (dB) |
|---|---|---|---|---|---|---|---|
| CW | Below | 851.00 | -22.40 | 35.53 | 36.99 | 1.46 | 57.93 |
| CW | +3 dB | 851.00 | -19.43 | 35.62 | 36.99 | 1.37 | 55.05 |
| CW | Below | 860.00 | -22.49 | 36.79 | 36.99 | 0.2 | 59.28 |
| CW | +3 dB | 860.00 | -19.53 | 36.61 | 36.99 | 0.38 | 56.14 |
| CW | Below | 869.00 | -22.52 | 36.46 | 36.99 | 0.53 | 58.98 |
| CW | +3 dB | 869.00 | -19.55 | 36.54 | 36.99 | 0.45 | 56.09 |

## Part 2.1033 (C) (8) DC Input into the final amplifier

INPUT POWER: (110 VAC) (1.27 A) = **140 Watts Maximum**

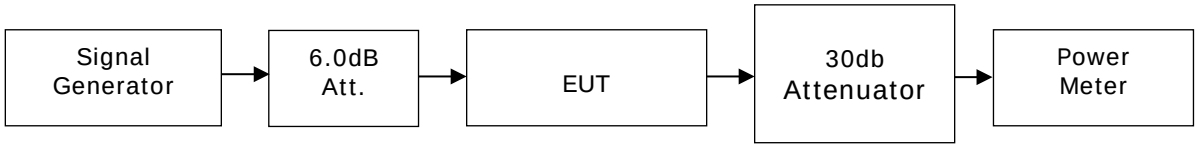
## AGC THRESHOLD §4.2

**Rule Part No.:** KDB935210 § 4.2

**Requirements:** Reporting only, used to determine test input levels

**Procedure:** KDB935210 Measurement Guidance for Industrial Boosters
§ 4.2 Measuring AGC threshold

**Setup Diagram:**




**Test Data: Downlink Measurement Table**

| Gen Freq (MHz) | Gen Output (dBm) | Insertion Loss (dB) | Booster Input (dBm) | Booster Output (dBm) |
|---|---|---|---|---|
| 860 | -24.0 | 20.9 | -3.1 | 35.38 |
| 860 | -23.0 | 20.9 | -2.1 | 36.38 |
| 860 | -22.0 | 20.9 | -1.1 | 37.01 |
| 860 | -21.0 | 20.9 | -0.1 | 36.93 |

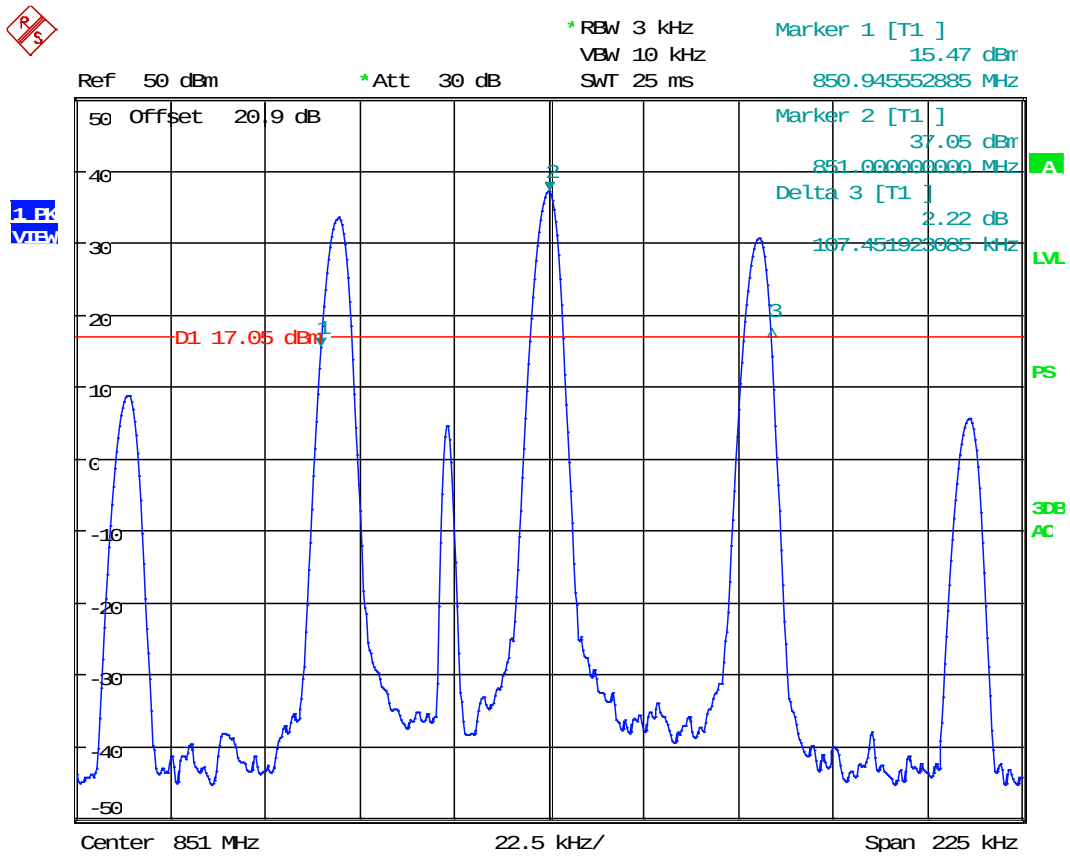
## OUT-OF-BAND REJECTION § 4.3

**Rule Part No.:** KDB 935210 §4.3 Out of band rejection

**Requirements:** Reporting Only

**Procedure:** KDB 935210 §4.3 Out of band rejection

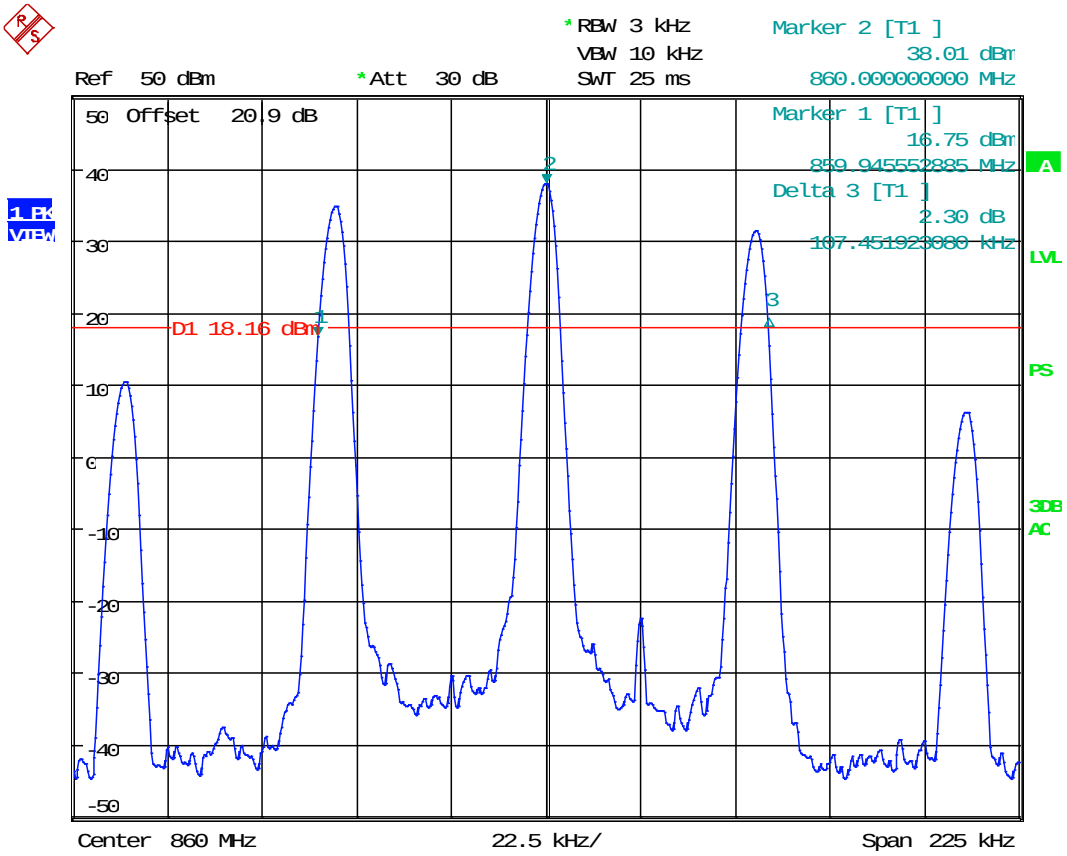
**Test Data:** **Low End of Band Plot – 851.000 MHz**




Date: 16.NOV.2017 09:34:41

## Out-of-Band Rejection §4.3

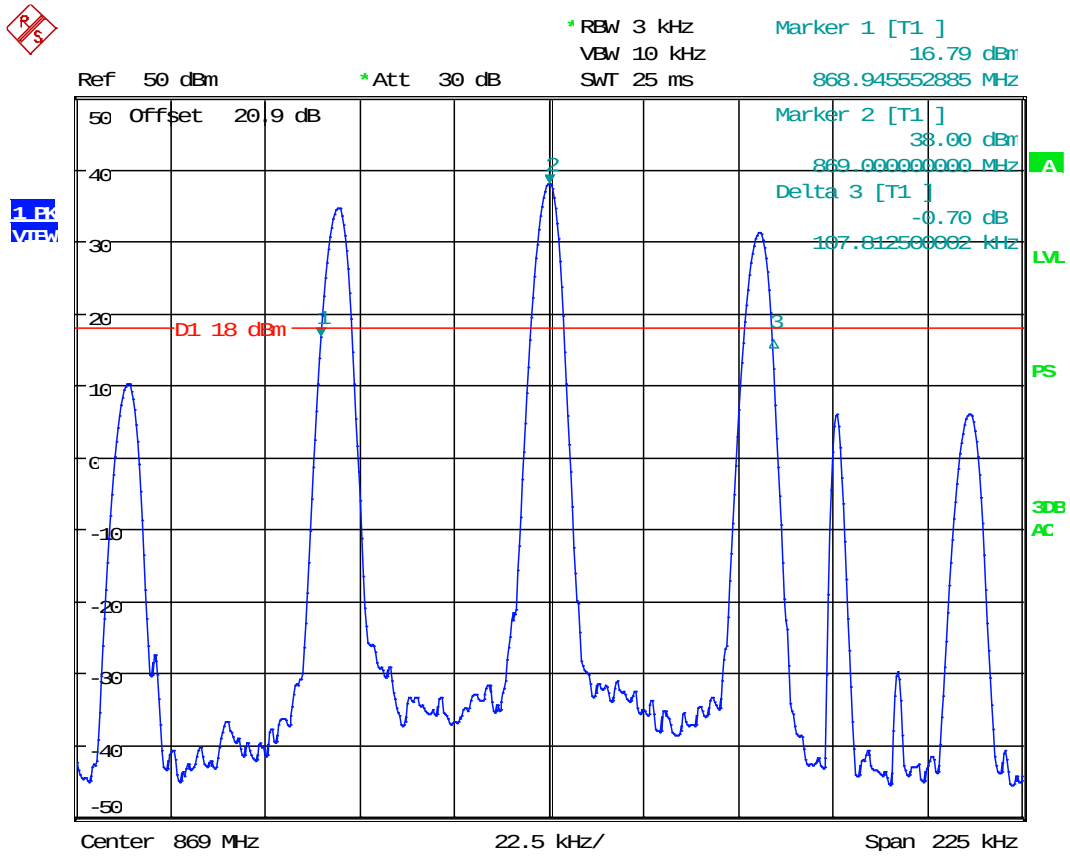
**Test Data: Middle of Band Plot – 860.000 MHz**




Date: 16.NOV.2017 09:47:35

## Out-of-Band Rejection §4.3

**Test Data: High End of Band Plot – 869.000 MHz**




Date: 16.NOV.2017 09:58:27

## INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

**Rule Part No.:** 47CFR90.219(e)(4)
KDB 935210-D05 v01r01 §4.4

**Requirements:** A signal booster must be designed such that all signals that it retransmits meet the following requirements:

The signals are retransmitted on the same channels as received. Minor departures from the exact provider or reference frequencies of the input signals are allowed, provided that the retransmitted signals meet the requirements of §90.213.

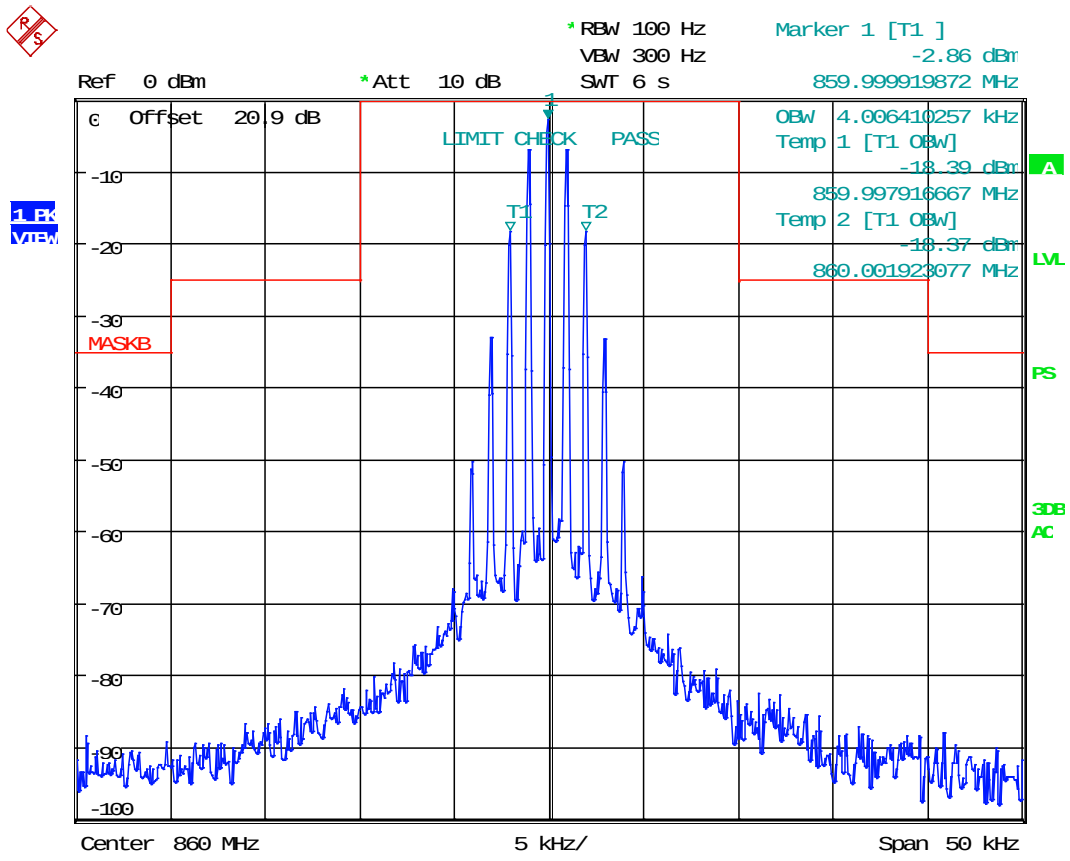
There is no change in the occupied bandwidth of the retransmitted signals.

The retransmitted signals continue to meet the unwanted emissions limits of §90.210 applicable to the corresponding received signals (assuming that these received signals meet the applicable unwanted emissions limits by a reasonable margin).

**Procedure:** KDB935210 § 4.4 Input versus output signal comparison

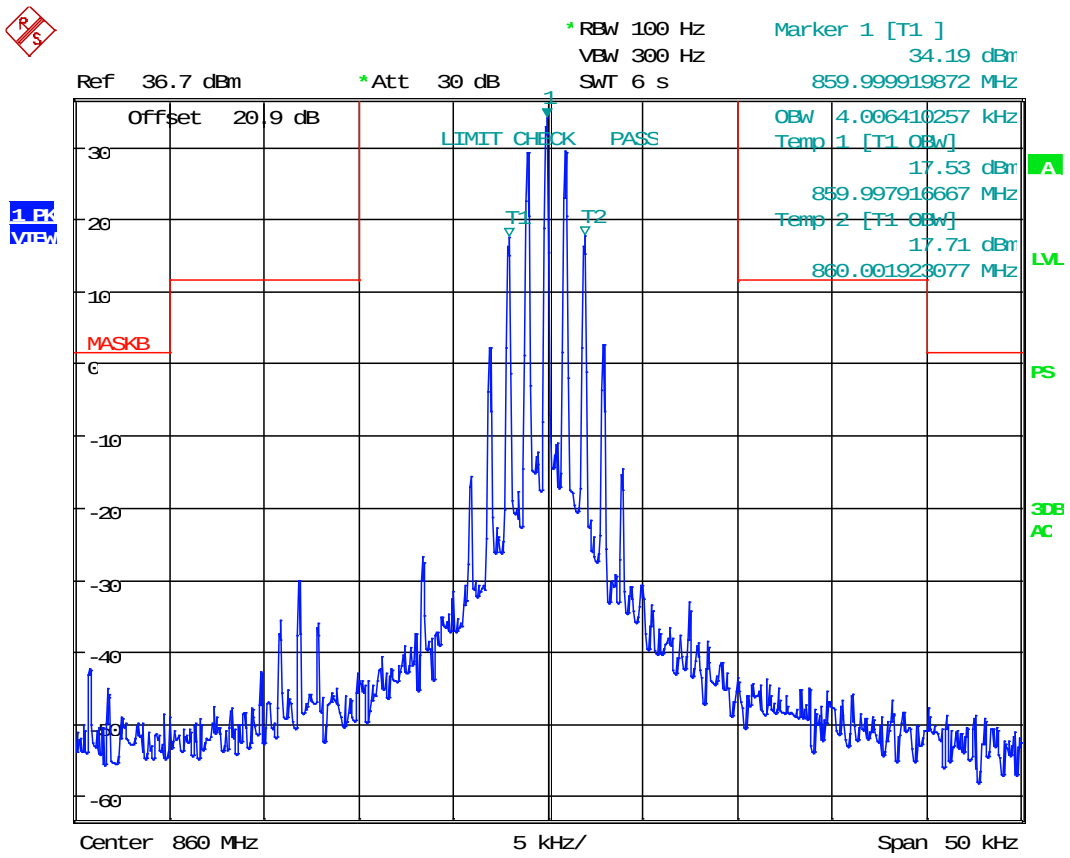
The EUT was test for this requirement at 3 places in the band and the data below represents the worst case.

## Test Data: Middle of Band Input vs Output – 6.25 kHz Test Signal




Date: 16.NOV.2017 11:32:21

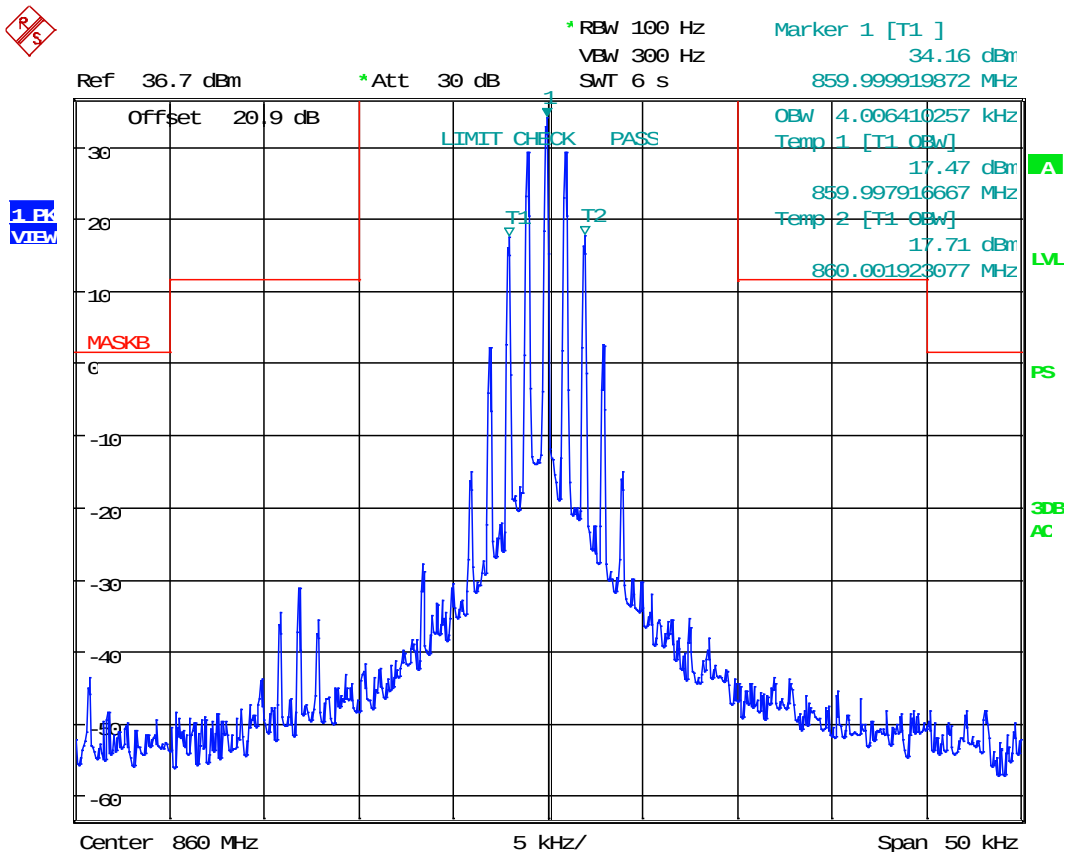
## Test Data: Middle of Band Input vs Output – 6.25 kHz Below AGC Threshold




Date: 11.NOV.2017 14:43:23

## INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

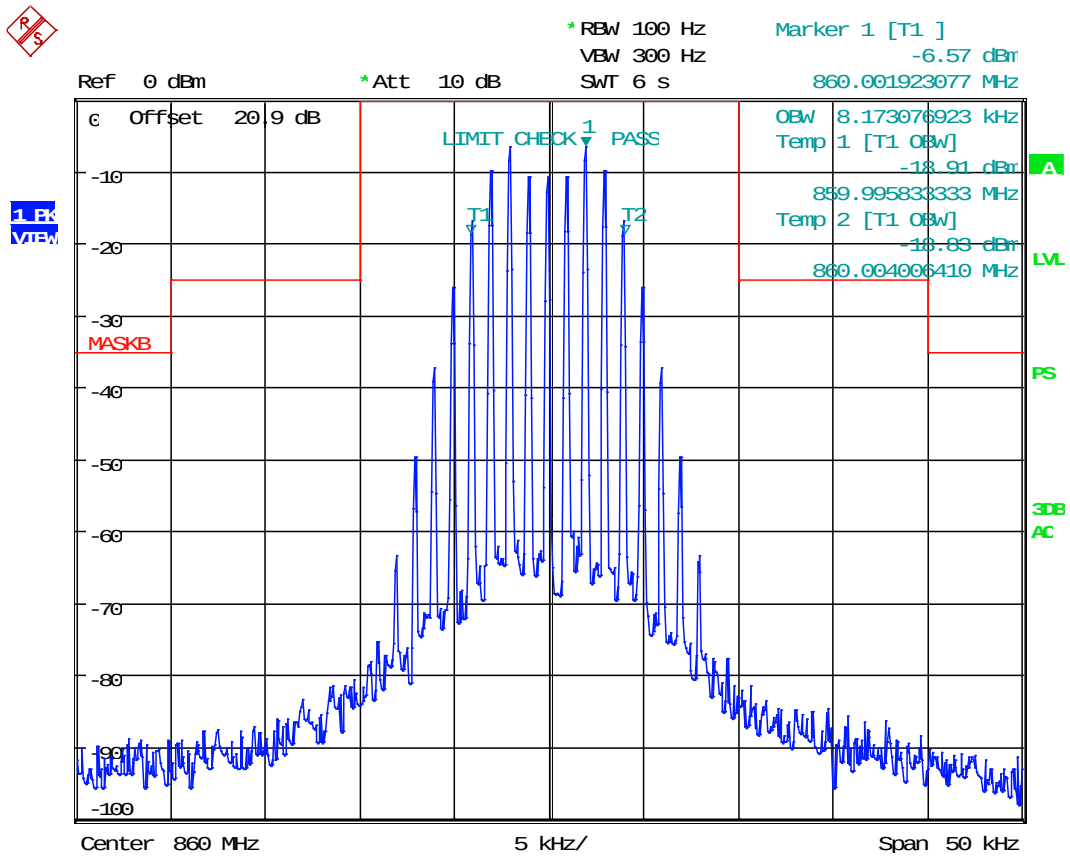
### Test Data: Middle of Band Input vs Output – 6.25 kHz +3 dBm Above AGC Threshold




Date: 11.NOV.2017 14:44:48

## INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

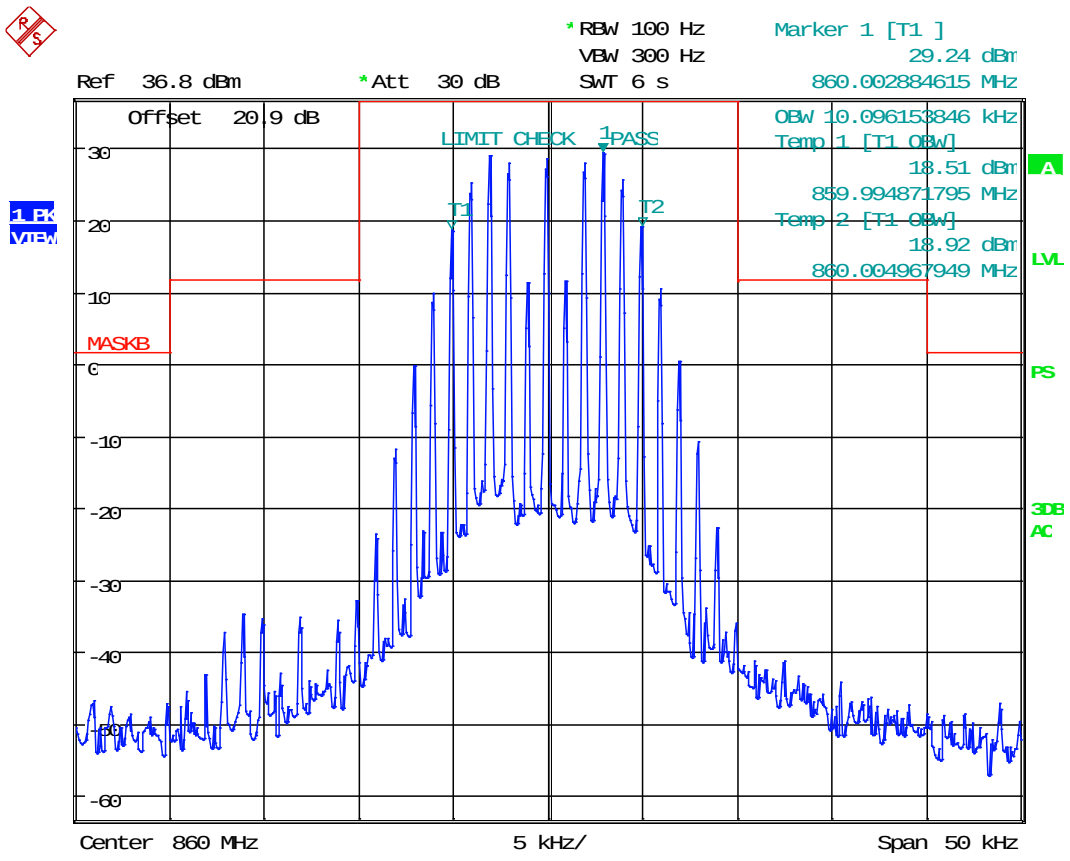
### Test Data: Middle of Band Input vs Output – 12.5 kHz Test Signal




Date: 16.NOV.2017 11:30:33

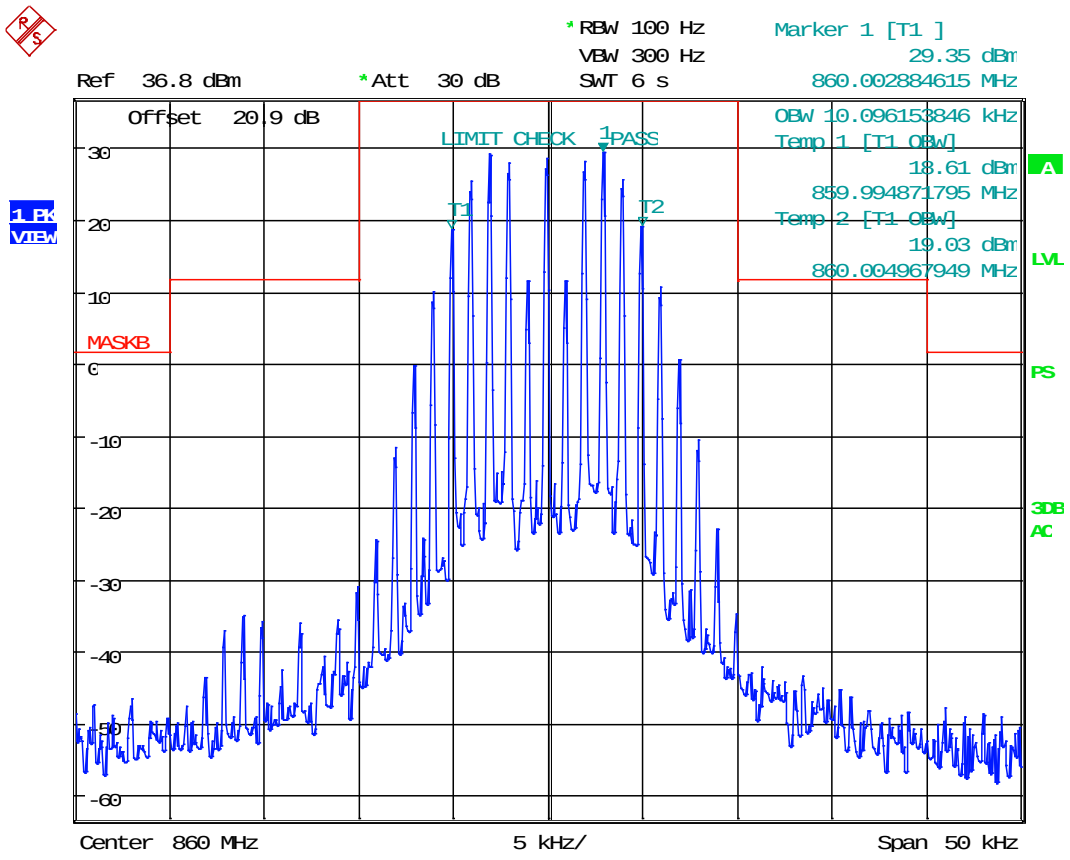
## INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

### Test Data: Middle of Band Input vs Output – 12.5 kHz Below AGC Threshold



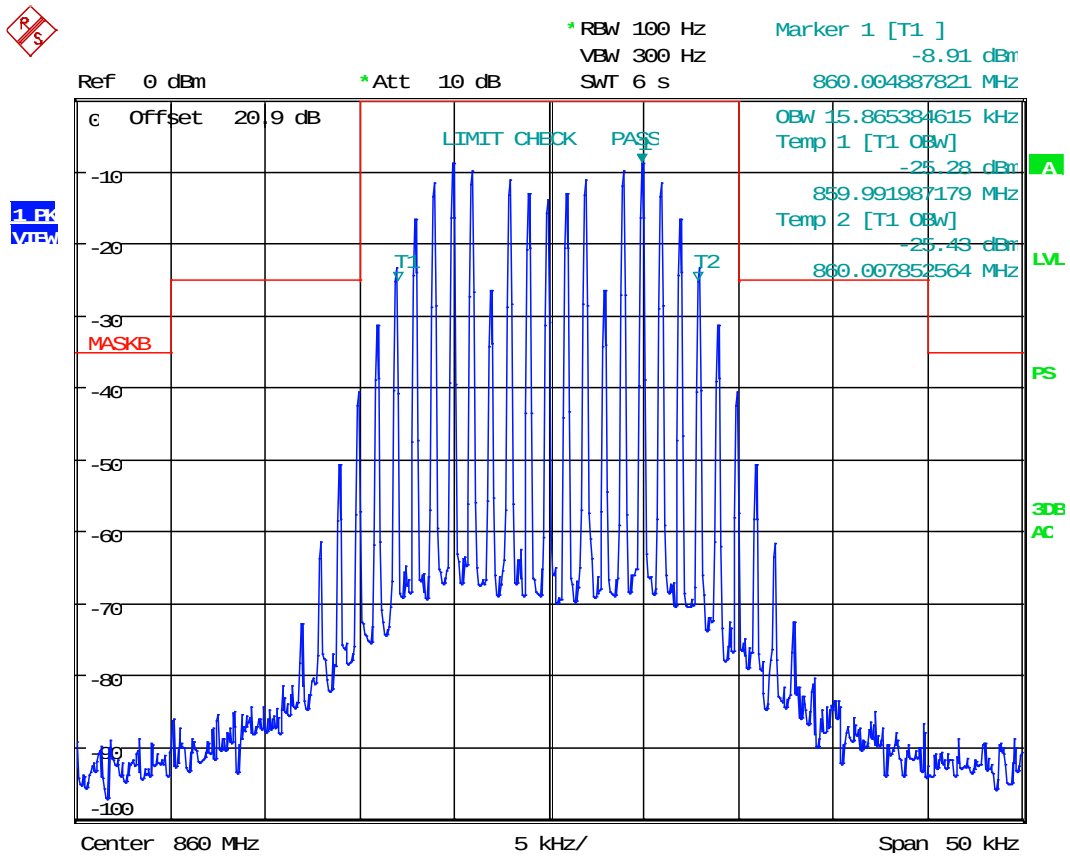

Date: 11.NOV.2017 14:27:19

## Test Data: Middle of Band Input vs Output – 12.5 kHz +3 dBm Above AGC Threshold



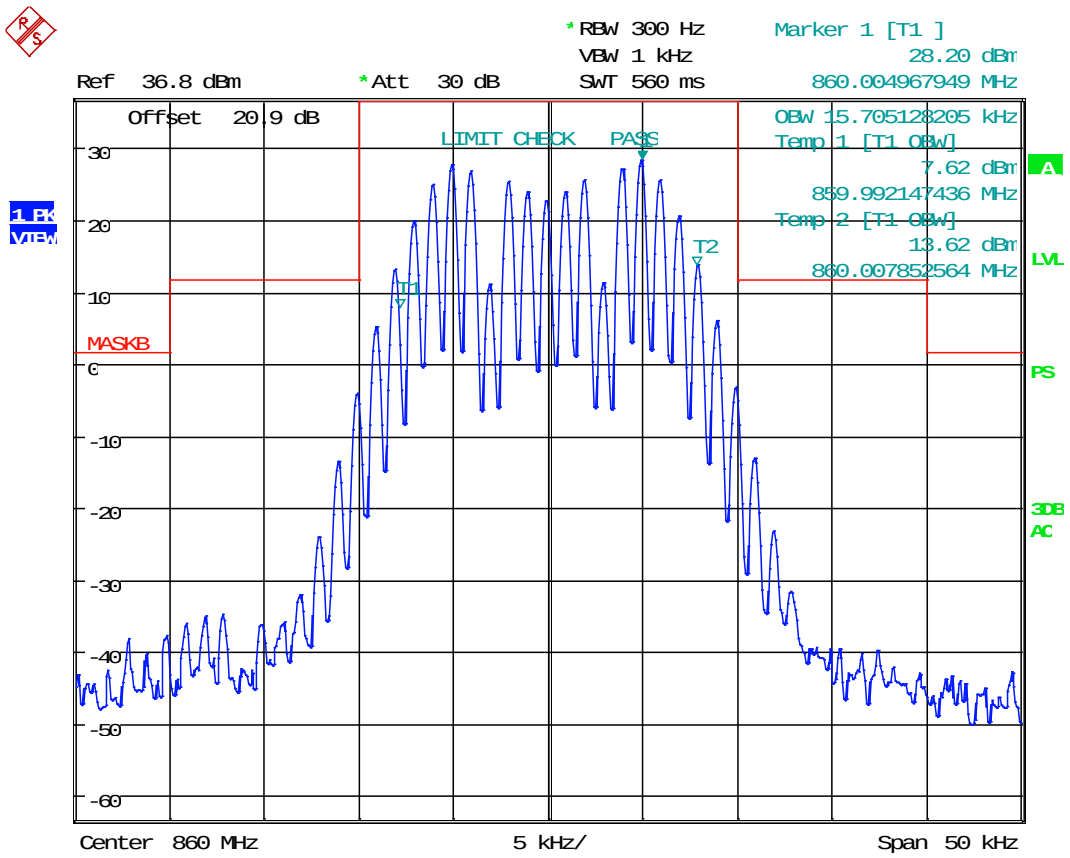

Date: 11.NOV.2017 14:30:20

## Test Data: Middle of Band Input vs Output – 25 kHz Test Signal



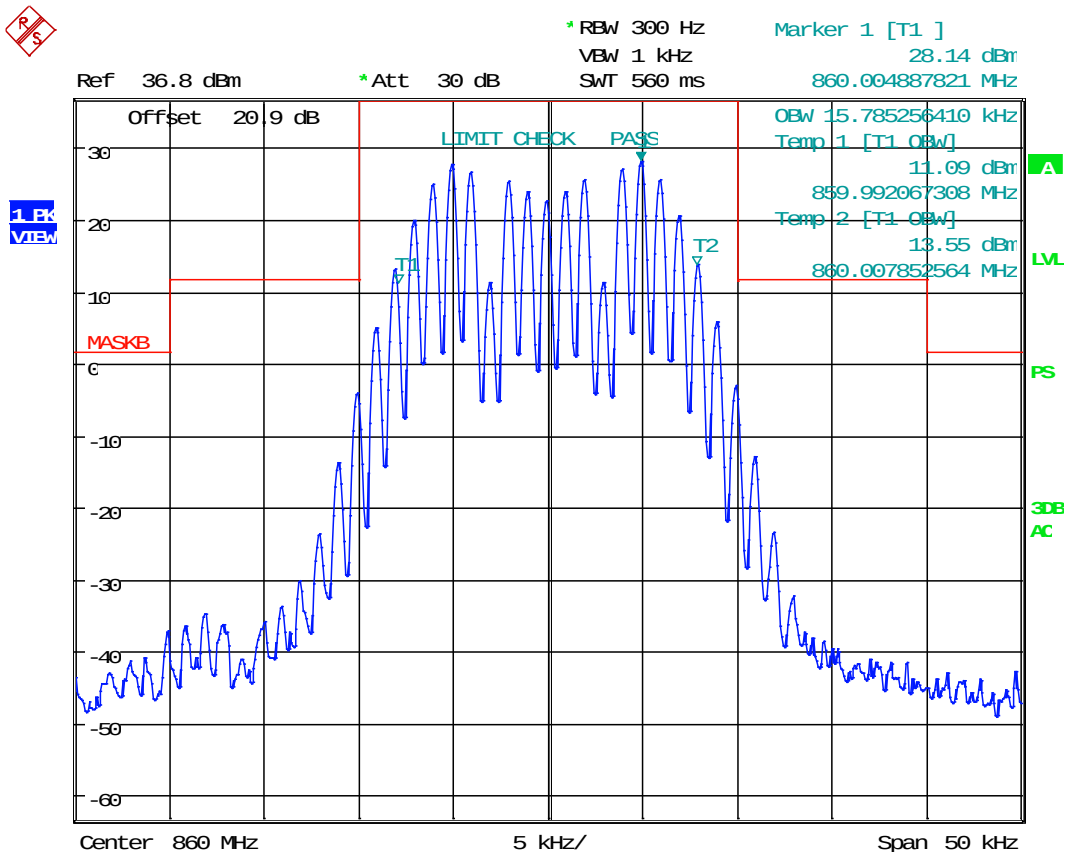

Date: 16.NOV.2017 11:27:58

## Test Data: Middle of Band Input vs Output – 25 kHz Below AGC Threshold



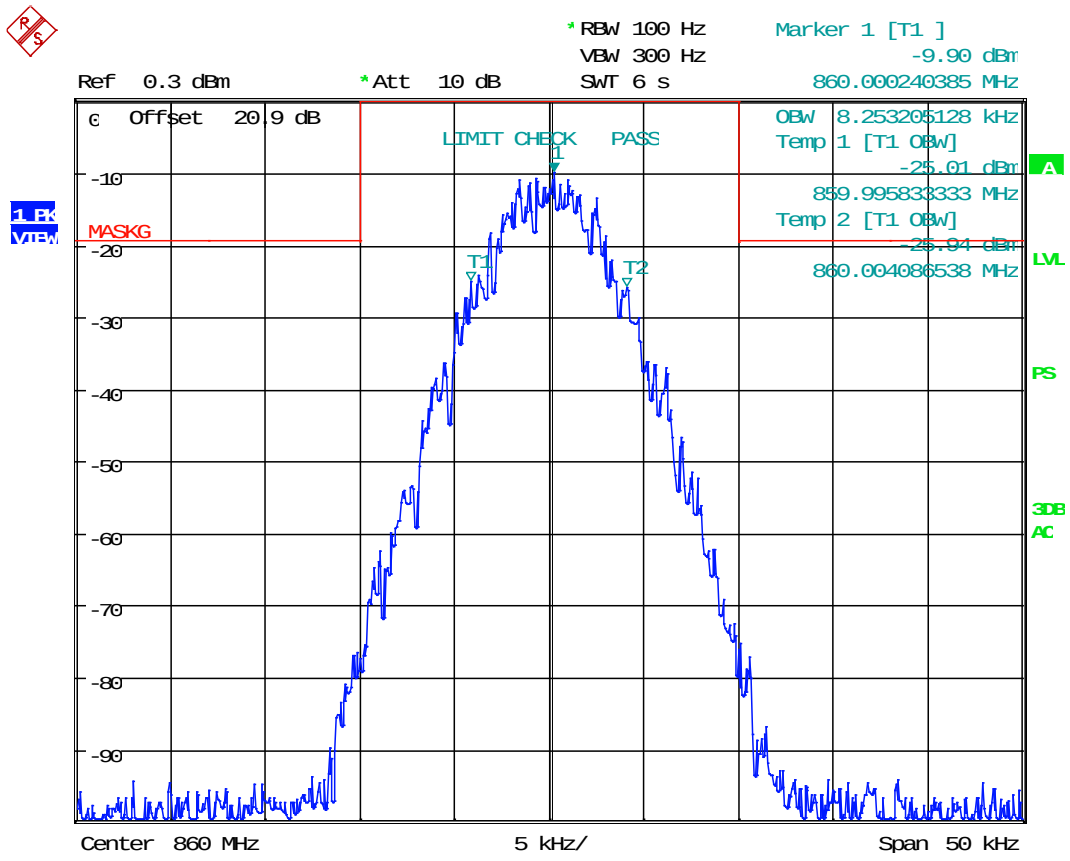

Date: 11.NOV.2017 14:33:50

## Test Data: Middle of Band Input vs Output – 25 kHz +3 dBm Above AGC Threshold



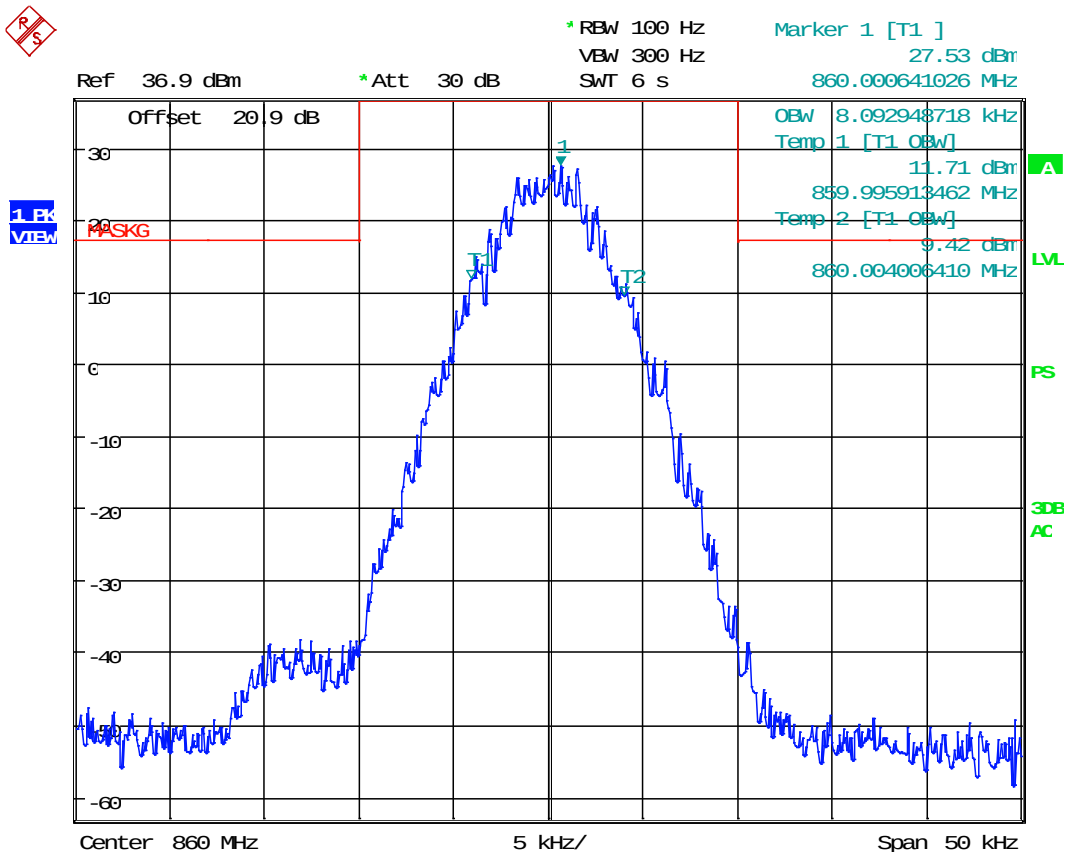

Date: 11.NOV.2017 14:33:11

## Test Data: Middle of Band Input vs Output – P25 Phase 1 C4FM Test Signal

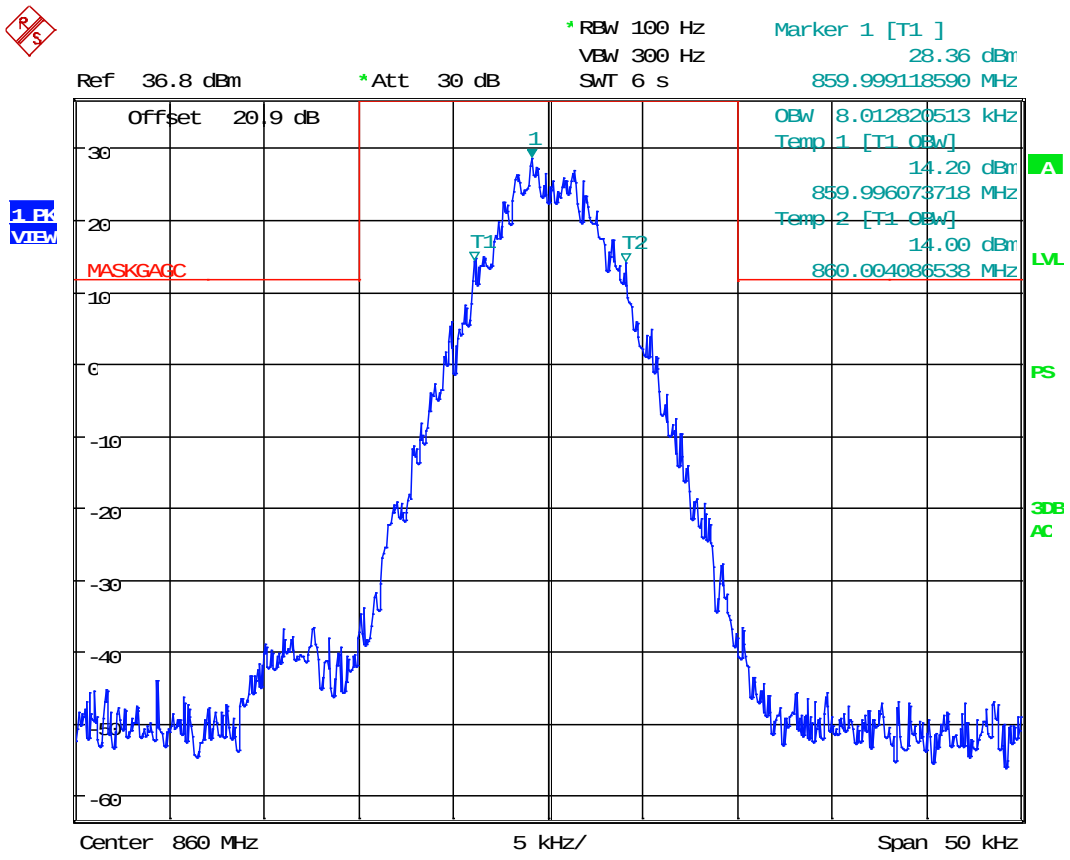



Date: 16.NOV.2017 10:41:28

## Test Data: Middle of Band Input vs Output – P25 Phase 1 C4FM Below AGC Threshold

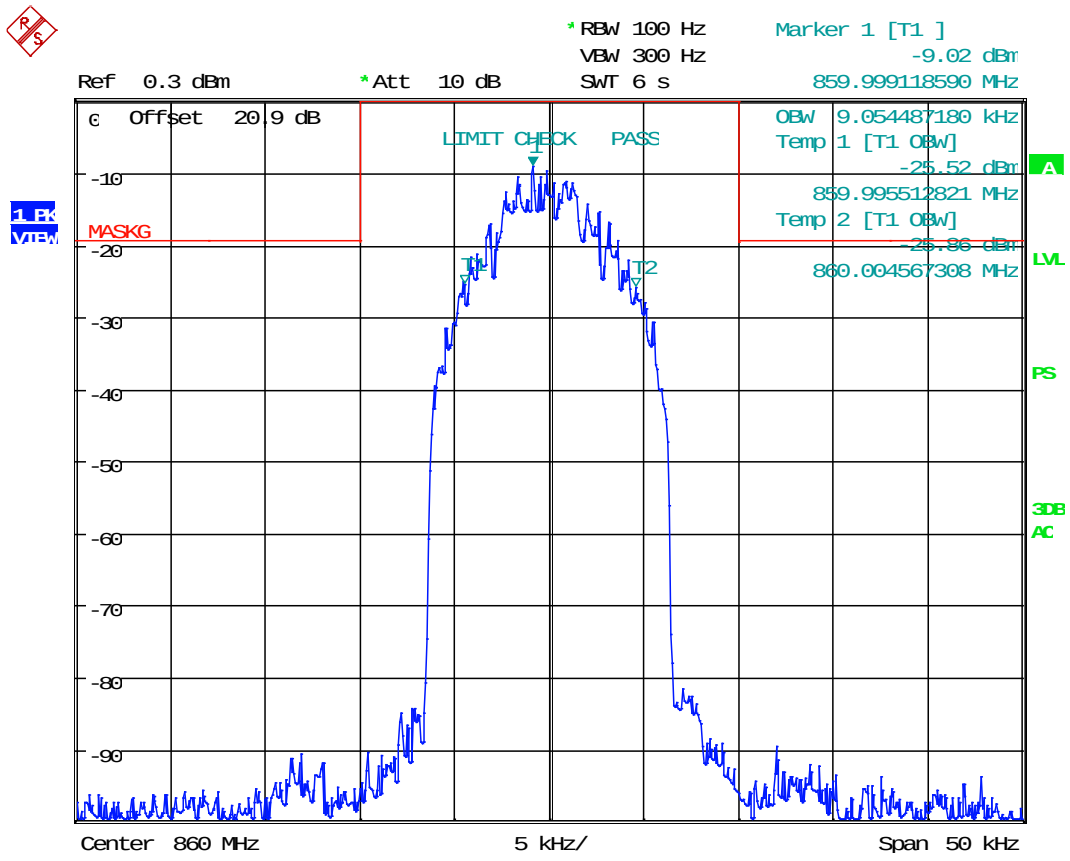


## Test Data: Middle of Band Input vs Output – P25 Phase 1 C4FM +3 dBm Above AGC Threshold



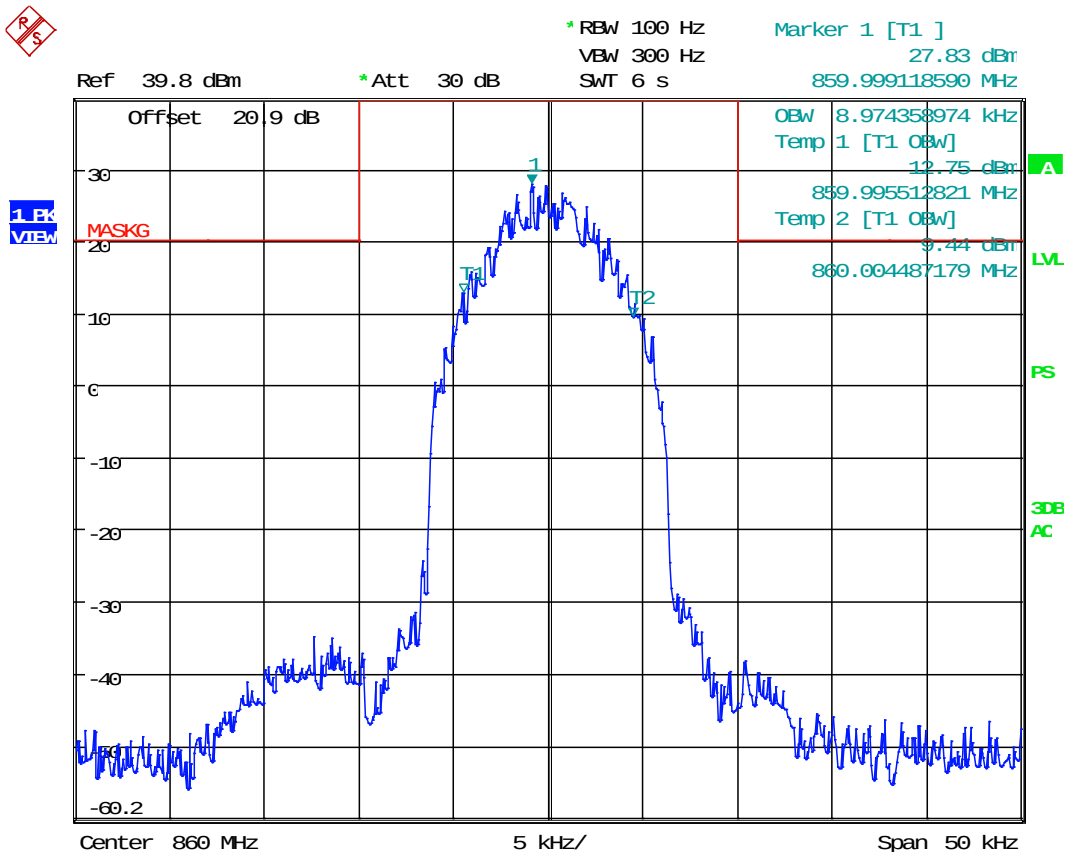

Date: 11.NOV.2017 14:53:51

## Test Data: Middle of Band Input vs Output – P25 Phase 1 LSM Test Signal

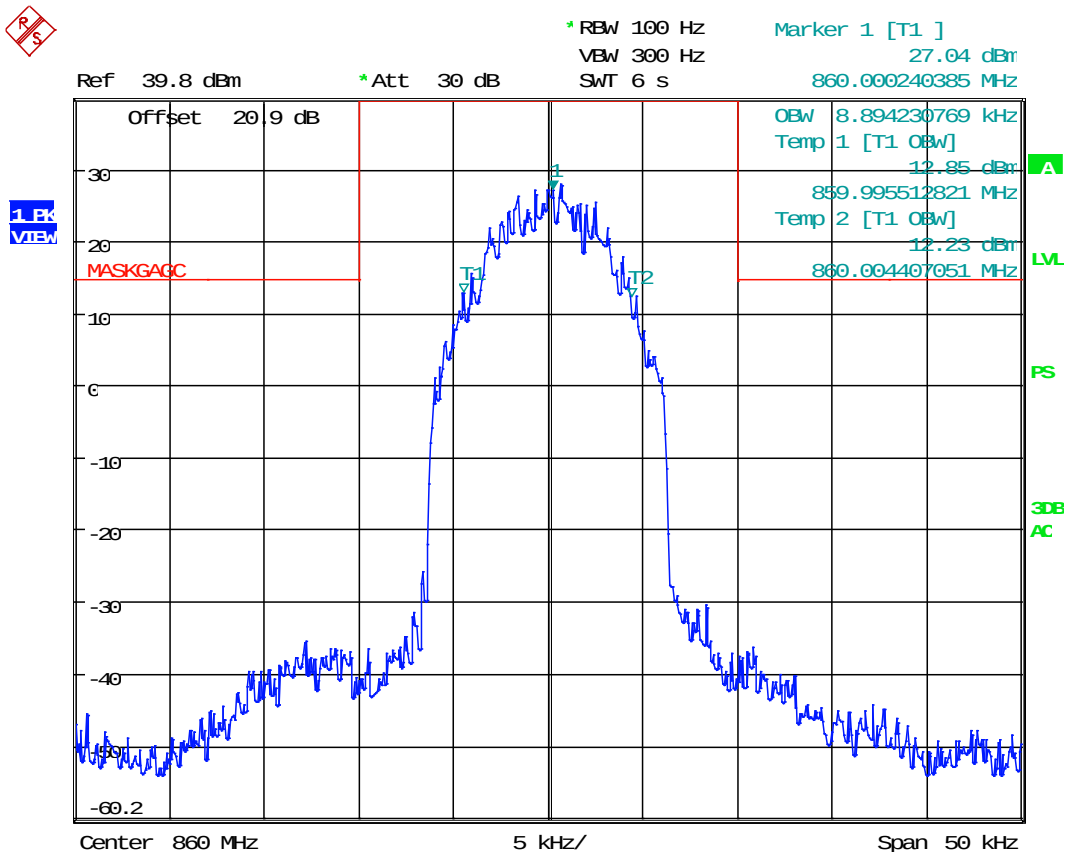



Date: 16.NOV.2017 10:43:02

## Test Data: Middle of Band Input vs Output – P25 Phase 1 LSM Below AGC Threshold



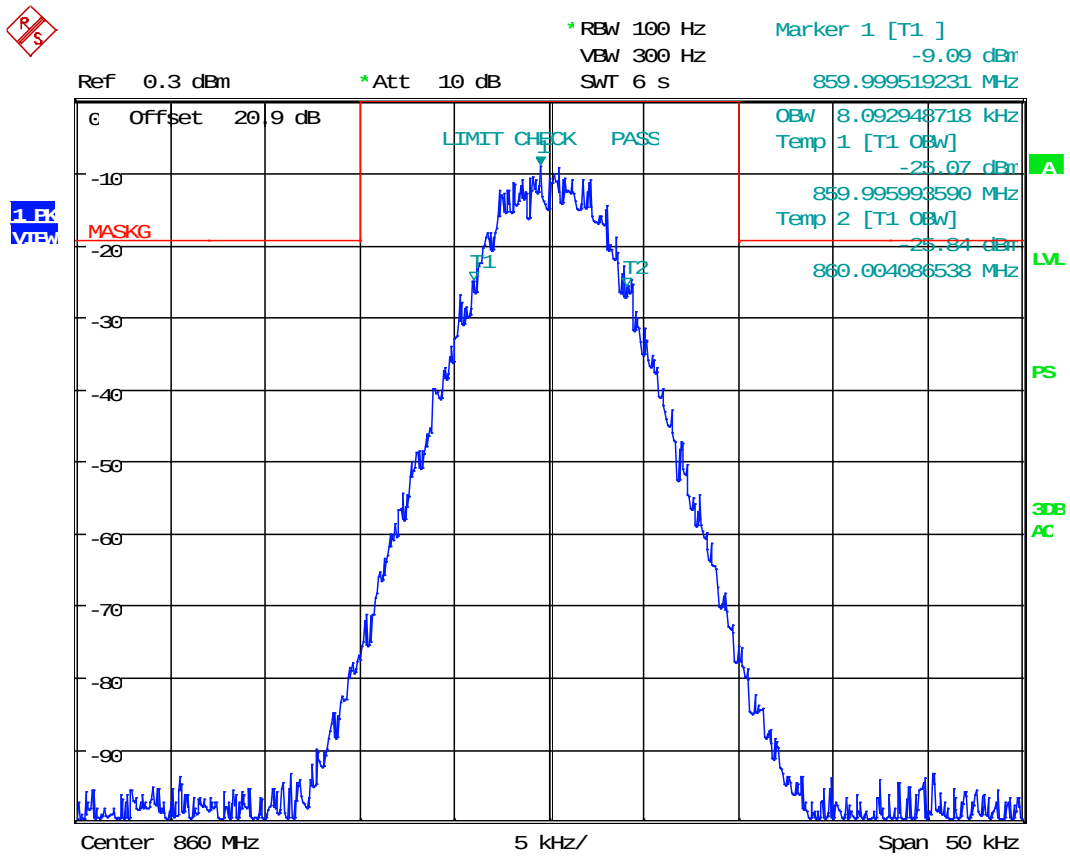
## Test Data: Middle of Band Input vs Output – P25 Phase 1 LSM +3 dBm Above AGC Threshold




Date: 11.NOV.2017 14:55:21

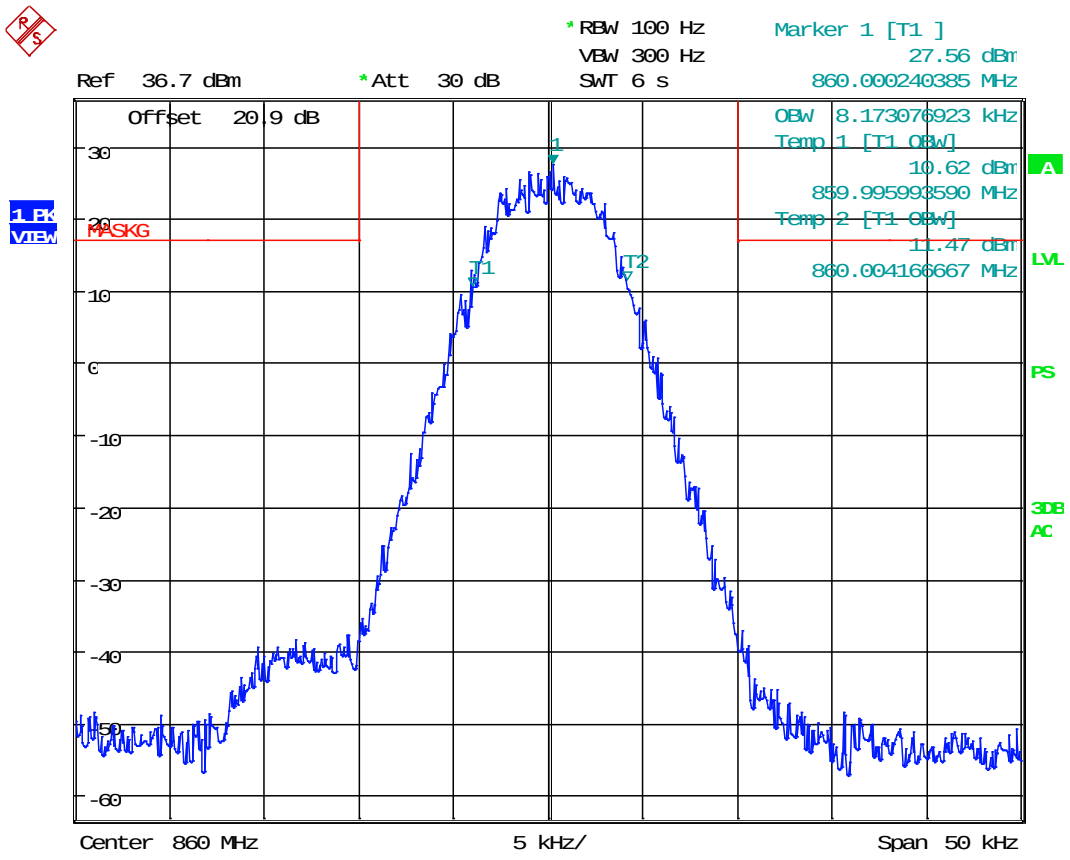
## INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

### Test Data: Middle of Band Input vs Output – P25 Phase 2 H-CPM Test Signal



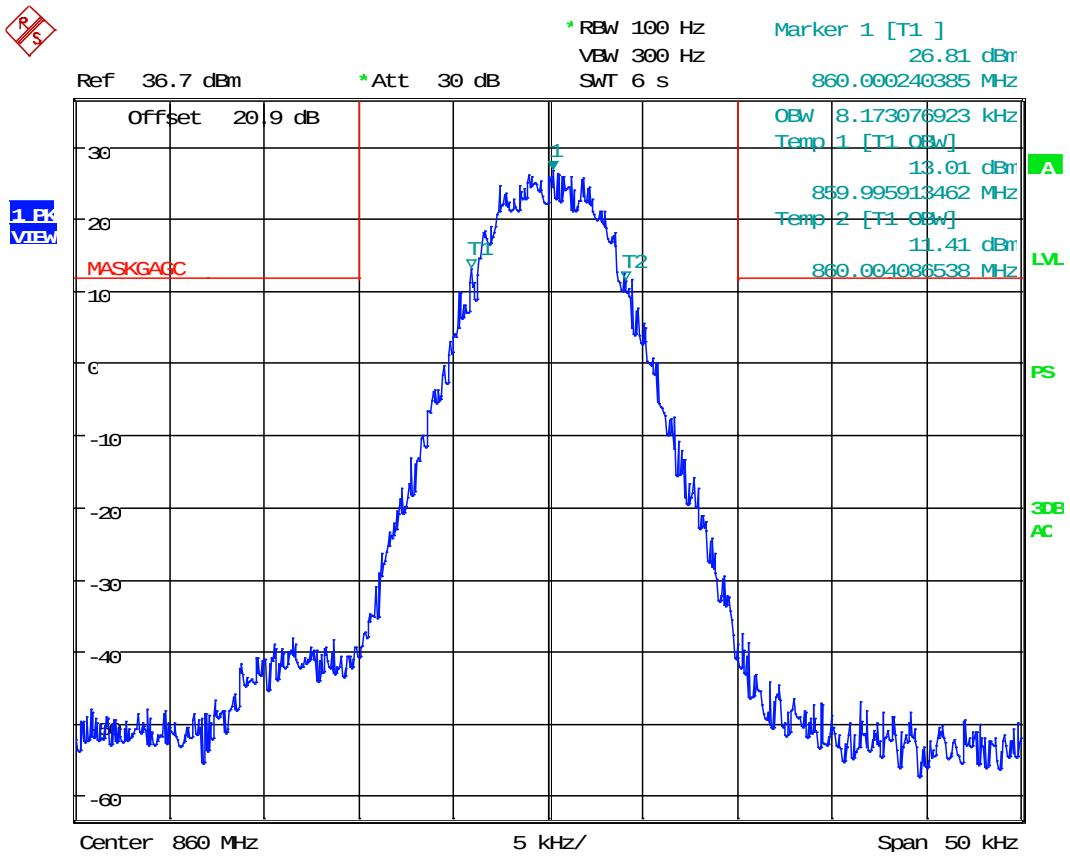

Date: 16.NOV.2017 10:44:13

## Test Data: Middle of Band Input vs Output – P25 Phase 2 H-CPM Below AGC Threshold



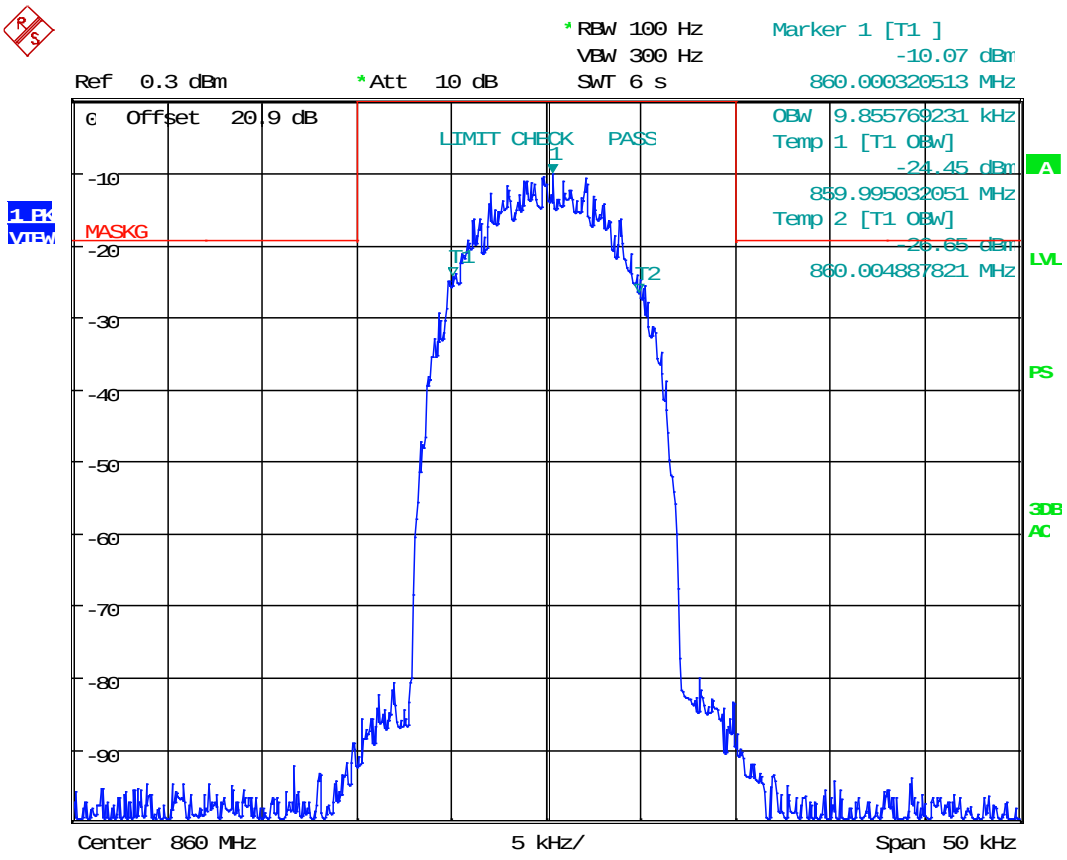

Date: 11.NOV.2017 14:58:58

## Test Data: Middle of Band Input vs Output – P25 Phase 2 H-CPM +3 dBm Above AGC Threshold



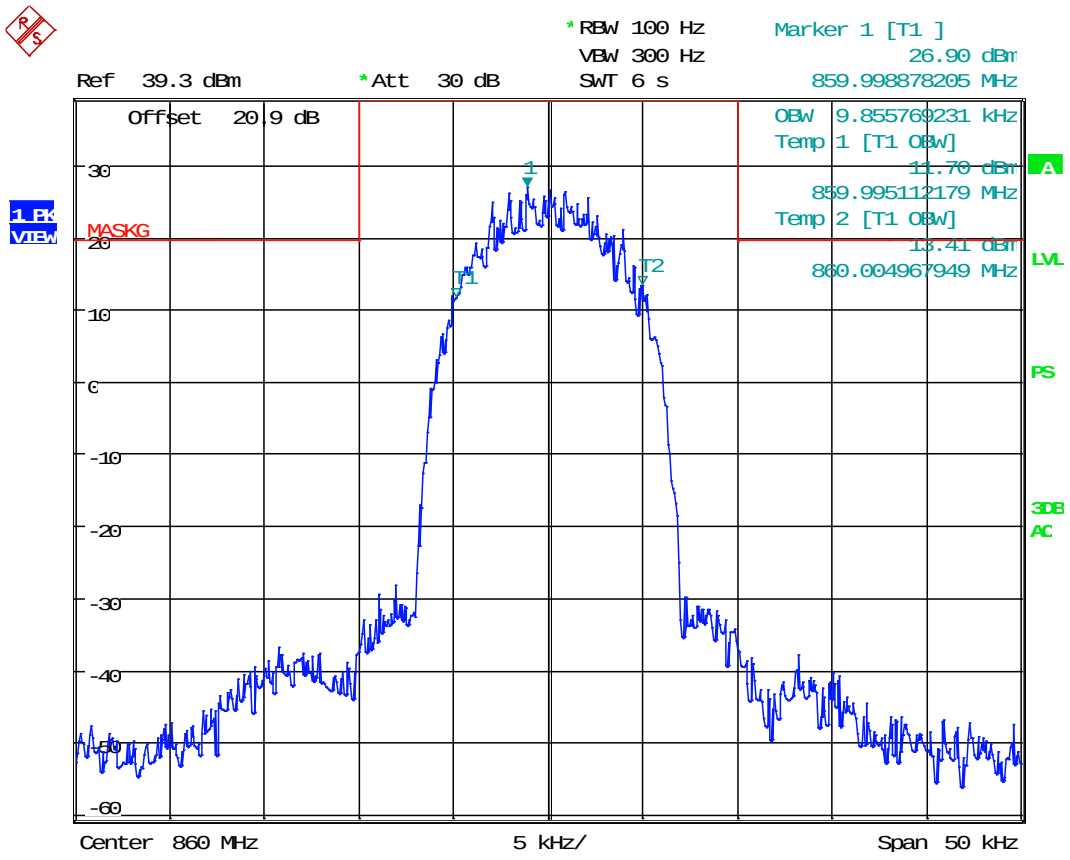

Date: 11.NOV.2017 15:00:21

## Test Data: Middle of Band Input vs Output – P25 Phase 2 H-DQPSK Test Signal



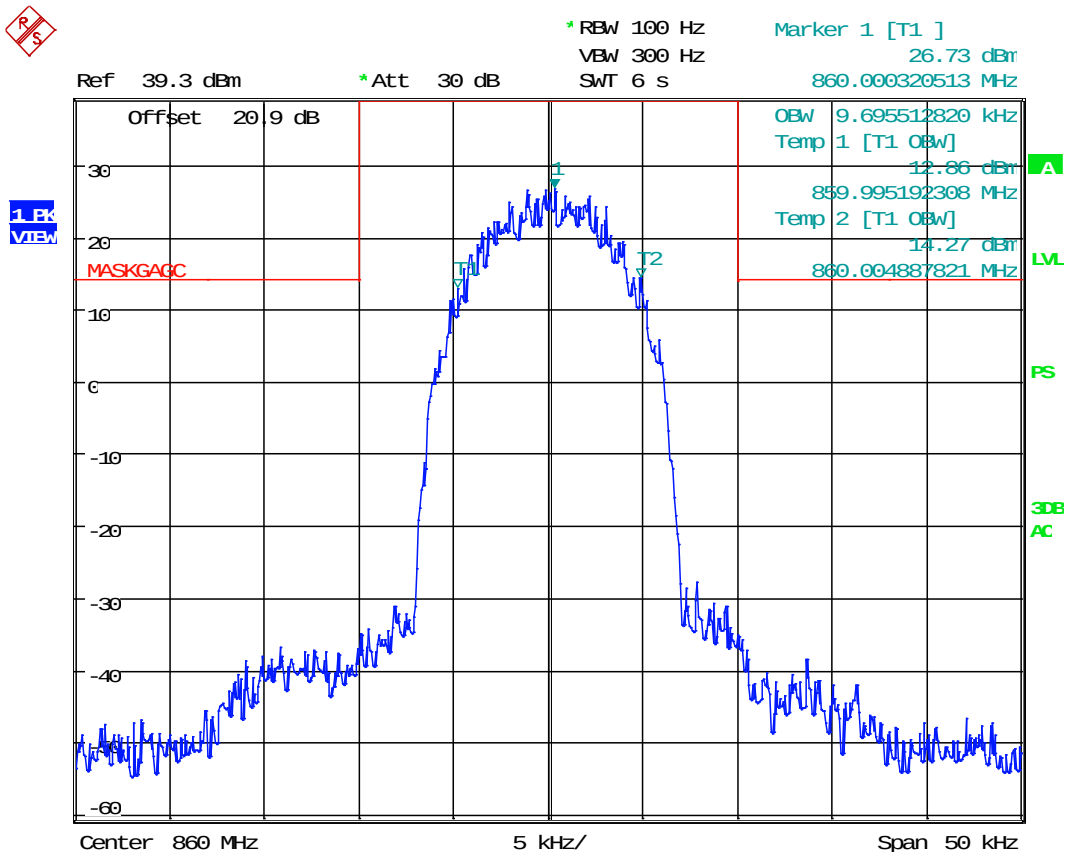

Date: 16.NOV.2017 10:45:32

## Test Data: Middle of Band Input vs Output – P25 Phase 2 H-DQPSK Below AGC Threshold

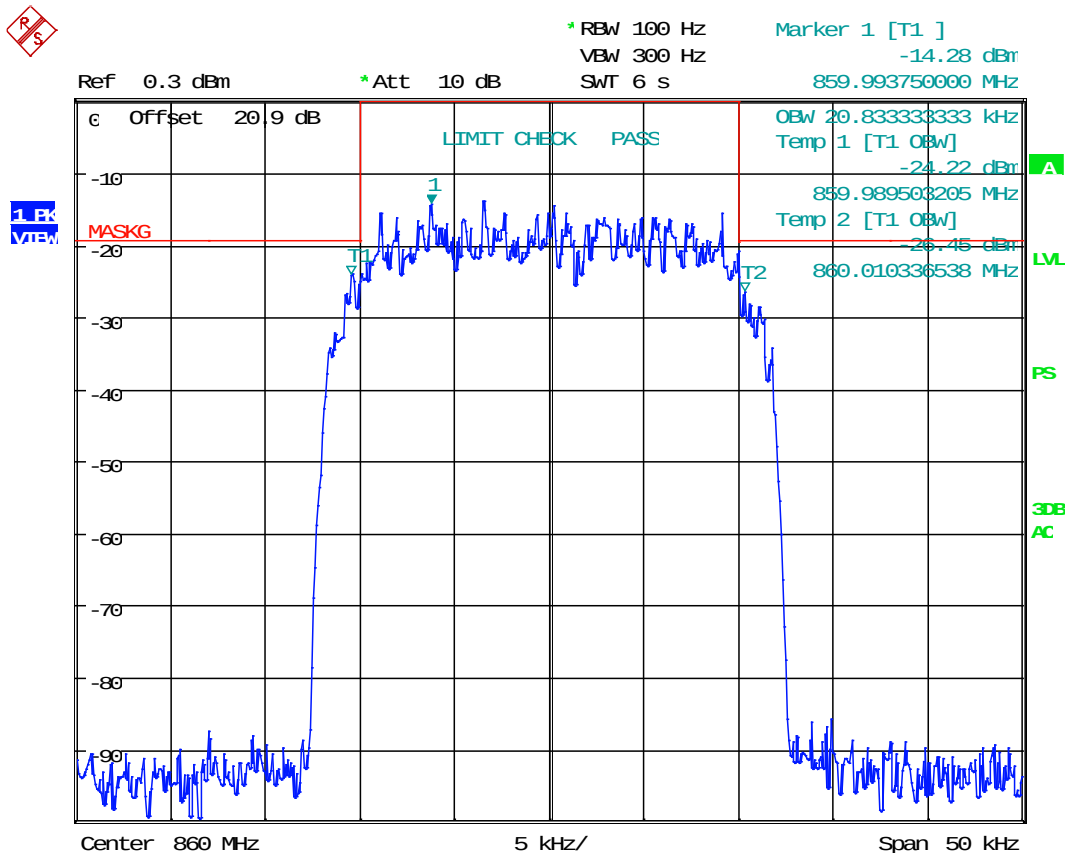



Date: 11.NOV.2017 15:04:31

## Test Data: Middle of Band Input vs Output – P25 Phase 2 H-DQPSK +3 dBm Above AGC Threshold



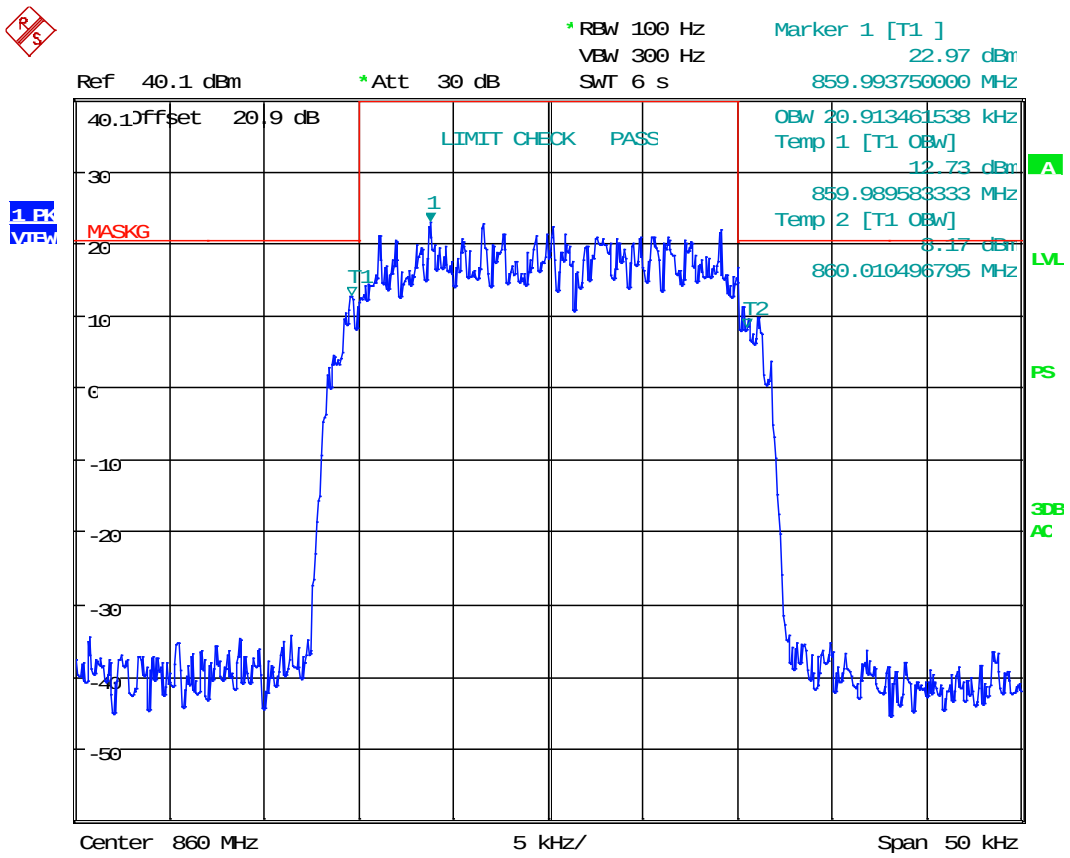
## Test Data: Middle of Band Input vs Output – TETRA Test Signal




Date: 16.NOV.2017 10:40:04

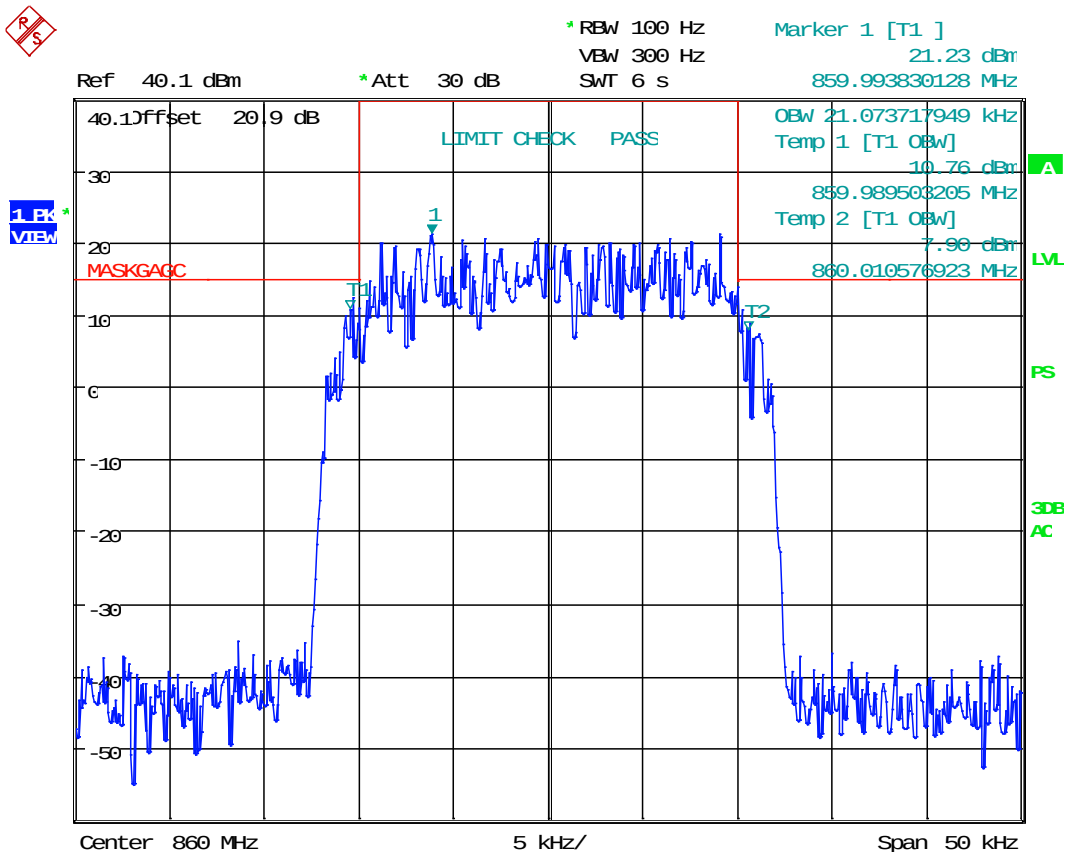
## INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

### Test Data: Middle of Band Input vs Output – TETRA Below AGC Threshold




Date: 11.NOV.2017 15:06:33

## Test Data: Middle of Band Input vs Output – TETRA +3 dBm Above AGC Threshold




Date: 11.NOV.2017 15:08:34

## NOISE FIGURE §4.6

**Rule Part No.:** 47CFR90.219(e)(2)
KDB 935210-D05 v01r01 §4.6

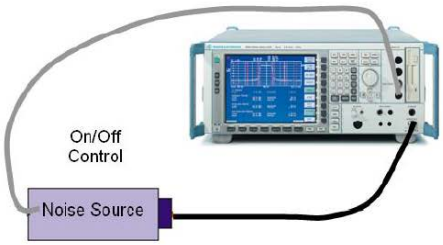
**Requirements:** 9 dB

**Procedure:** KDB935210 Measurement Guidance for Industrial Boosters
§ 4.6 Noise Figure Measurements

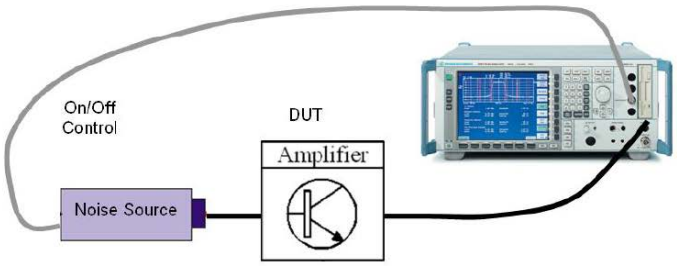
1MA178_2e R&S Application Note the Y Factor Technique Noise Figure
§ 2 Background Theory and Equations
§ 3 Detailed Measurement Steps

**Setup Diagram:**

**Calibration**




**Measurement**




**Test Data: Downlink Measurement Table**

| $T^{ON\ source}$ (K) | $T^{OFF\ source}$ (K) | Source ENR (dB) |
|---|---|---|
| 9545.45978 | 290 | 15.04 |

| Step 1 Calibration of Noise Source with ESU 40 | | | | | | | |
|---|---|---|---|---|---|---|---|
| $F_c$ | $N^{SA\ off}$ | | $N^{SA\ on}$ | | $Y^{SA}$ | $T^{SA}$ | $NF^{SA}$ |
| MHz | dBm | fW | dBm | fW | Linear | Analyzer | dB |
| 860 | -114.41 | 3.62 | -107.01 | 19.91 | 5.50 | 1768.87 | 8.51 |

| Step 2 Noise Measurement with EUT | | | | | | | |
|---|---|---|---|---|---|---|---|
| $F_c$ | $N^{EUT\ \&\ SA\ off}$ | | $N^{EUT\ \&\ SA\ on}$ | | $Y^{EUT\ \&\ SA}$ | $T^{EUT\ \&\ SA}$ | NF |
| MHz | dBm | fW | dBm | fW | Linear | Cascade | dB |
| 860 | -21.69 | 6776415076.11 | -14.17 | 38282474331.68 | 5.65 | 1700.69 | 8.37 |

| Step 3 Noise Figure Calcualtion for EUT | | | | | | |
|---|---|---|---|---|---|---|
| $F_c$ | Gain | Gain | $T^{EUT}$ | NF | Limit | Margin |
| MHz | Num | dB | EUT | dB | ≤dB | dB |
| 860 | 1934750199 | 92.87 | 1700.69 | 8.37 | 9.00 | 0.63 |

**Results Meet Requirements**

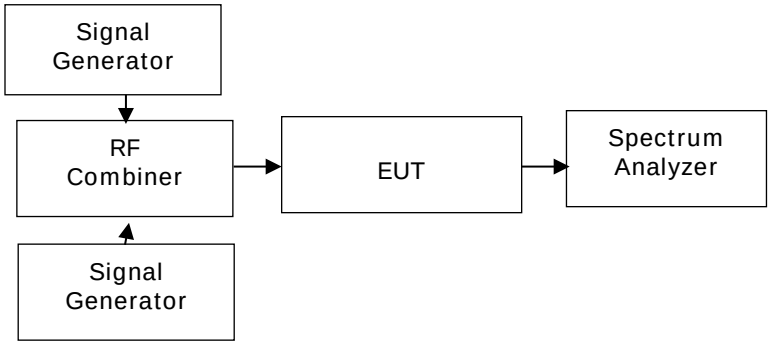
## OUT OF BAND / OUT OF BLOCK EMISSIONS (intermodulation) §4.7

**Rule Part No.:** 47CFR90.210
KDB 935210-D05 v01r01 §4.7.2

**Requirements:** -13 dBm

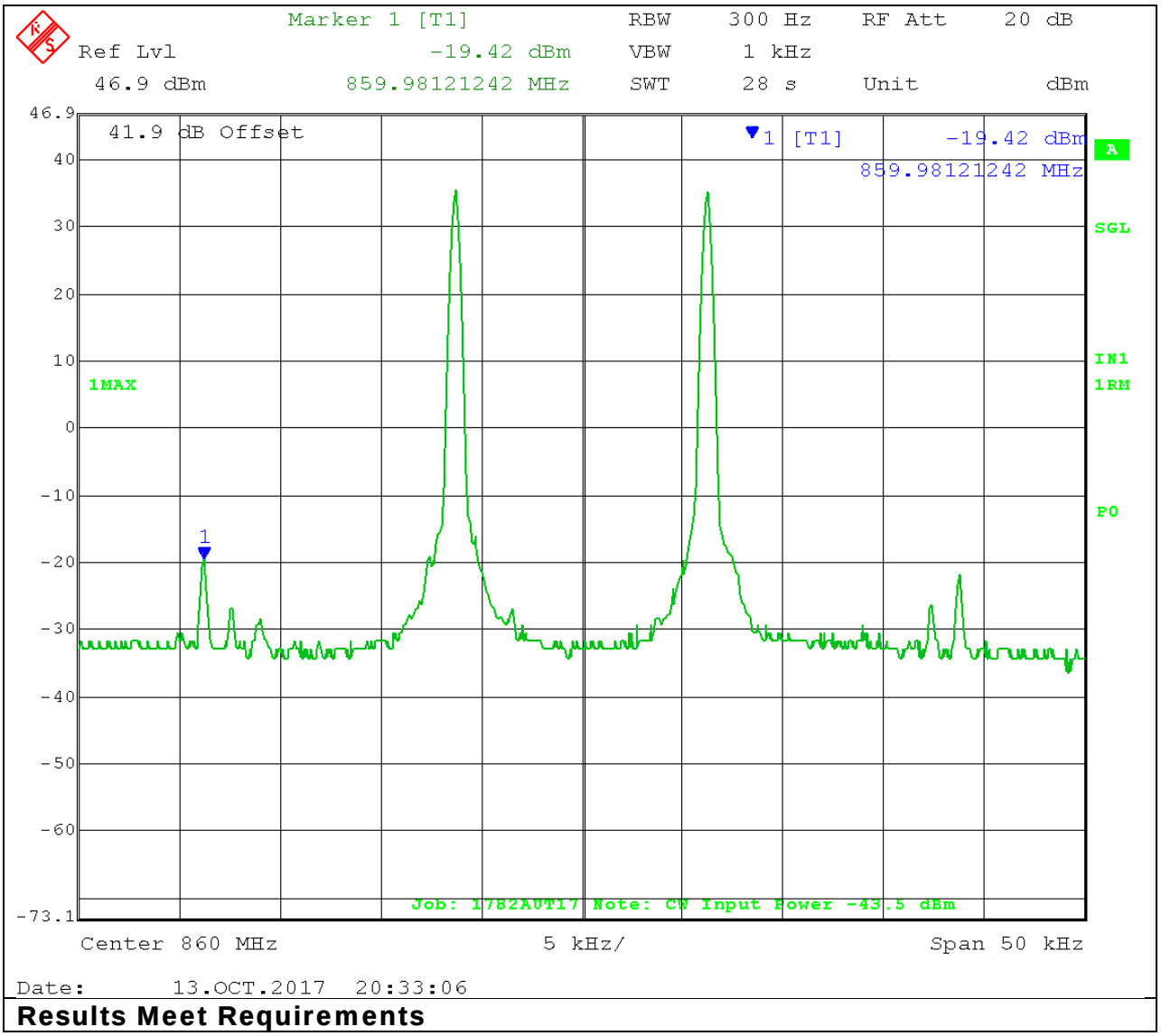
**Procedure:** KDB935210 Measurement Guidance for Industrial Boosters
§ 4.7.1 General
§ 4.7.2 Out of Band/ Out of block emissions conducted measurements

**Setup Diagram:**



## Out-of-band / out-of-block Emissions (including intermodulation) §4.7.2

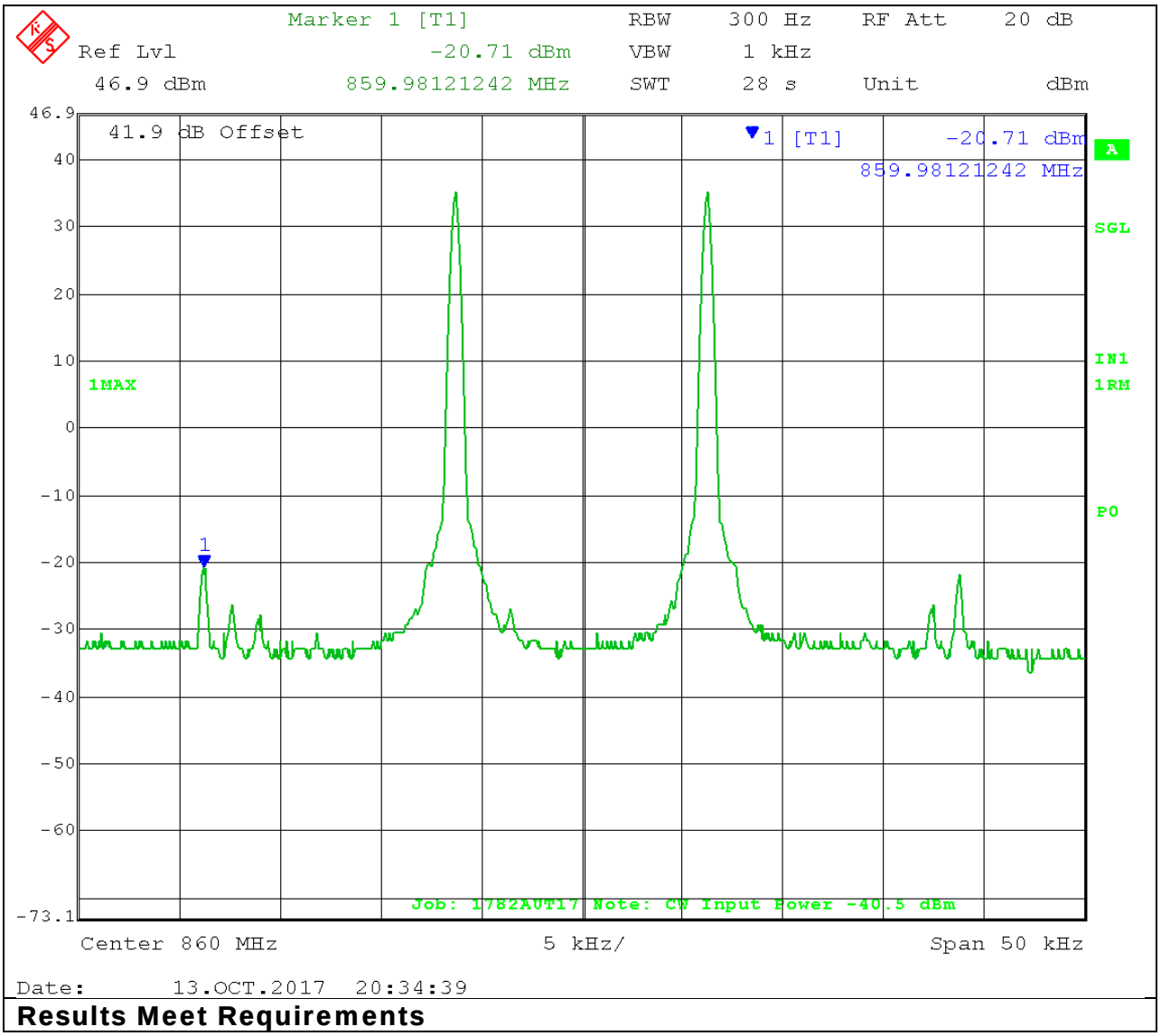
### Test Data: 6.25 kHz Intermodulation without AGC




**Results Meet Requirements**

## Out-of-band / out-of-block Emissions (including intermodulation) §4.7.2

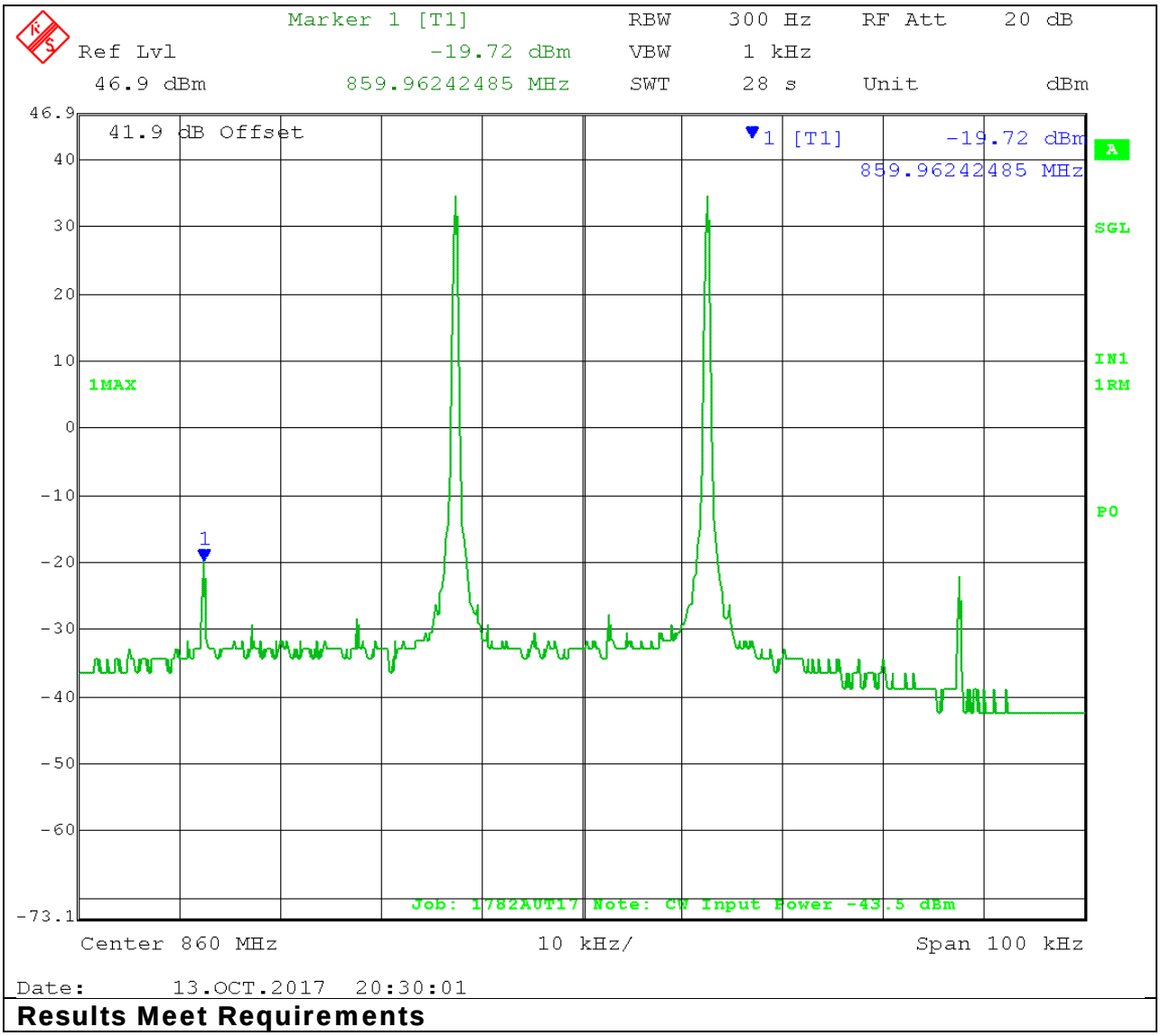
### Test Data: 6.25 kHz Intermodulation with AGC




**Results Meet Requirements**

## Out-of-band / out-of-block Emissions (including intermodulation) §4.7.2

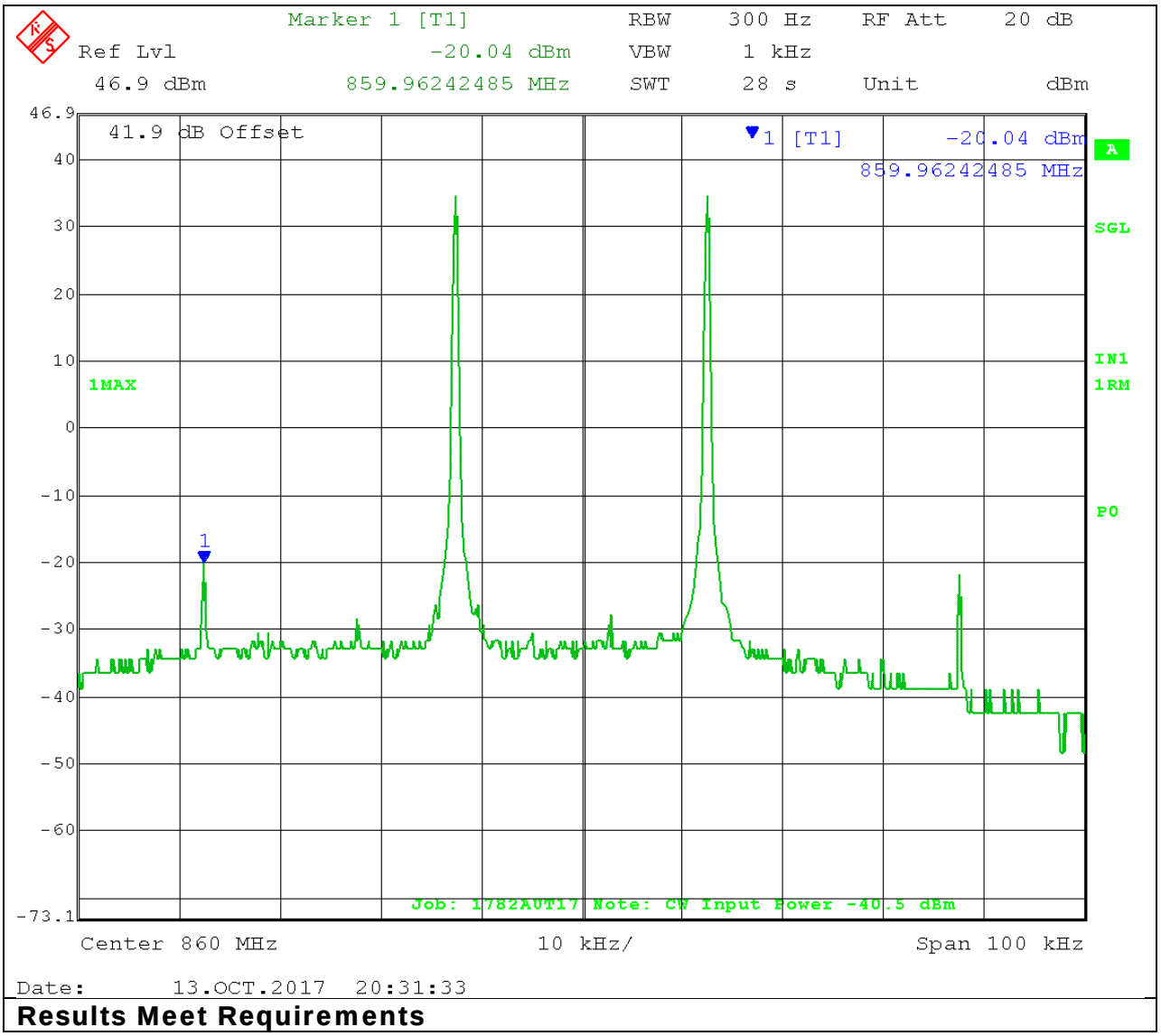
### Test Data: 12.5 kHz Intermodulation without AGC




**Results Meet Requirements**

## Out-of-band / out-of-block Emissions (including intermodulation) §4.7.2

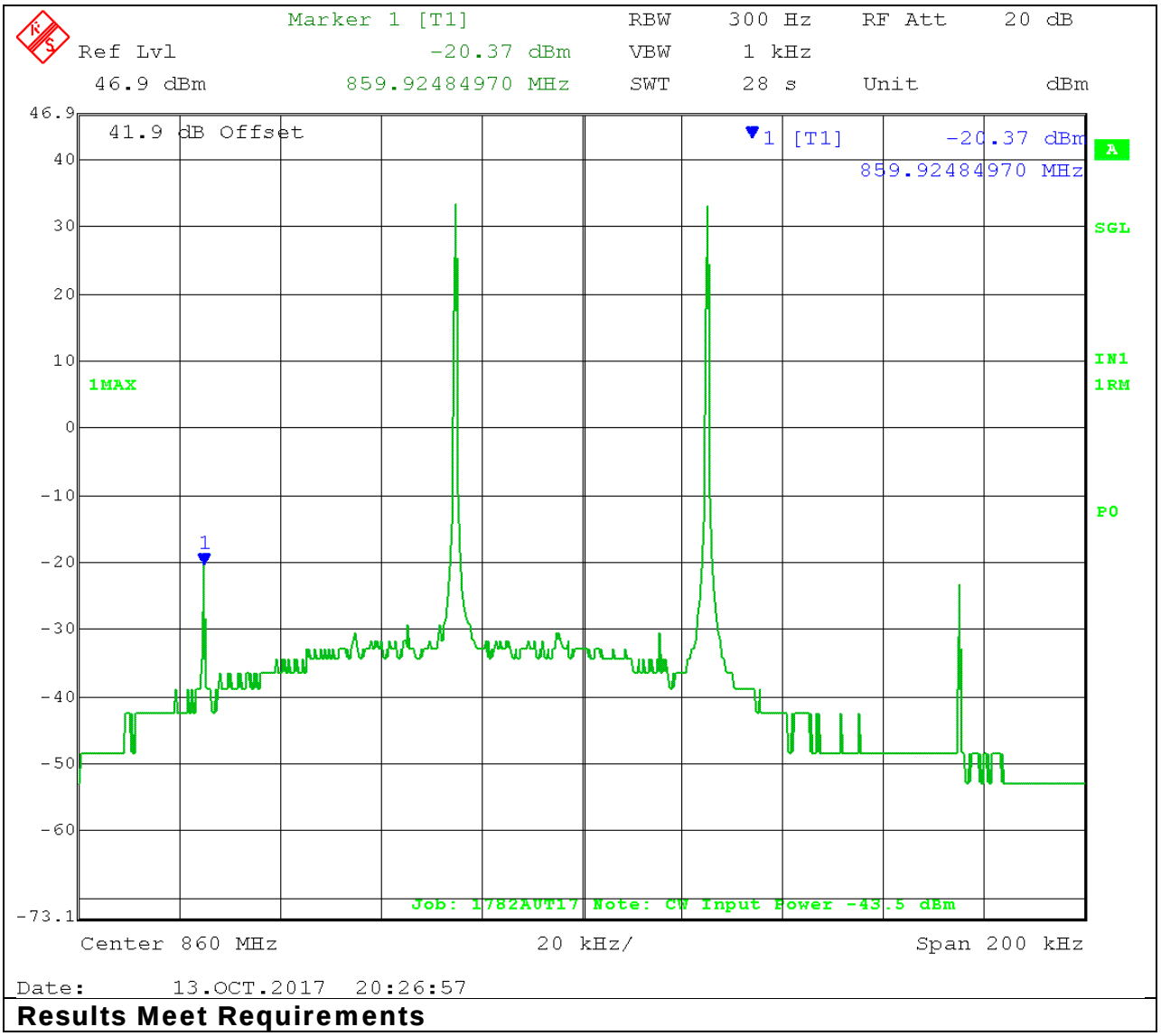
### Test Data: 12.5 kHz Intermodulation with AGC




**Results Meet Requirements**

## Out-of-band / out-of-block Emissions (including intermodulation) §4.7.2

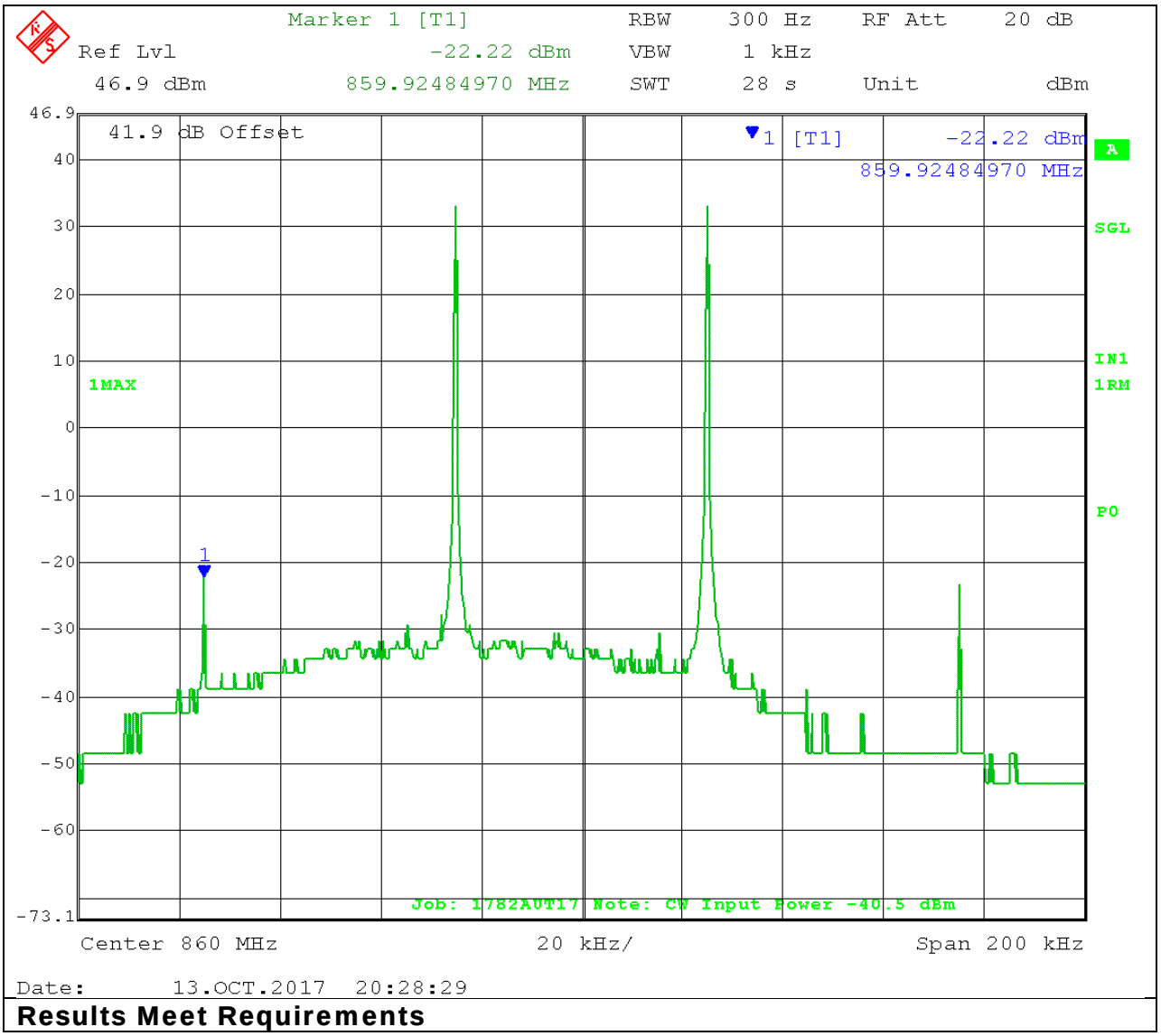
### Test Data: 25 kHz Intermodulation without AGC




**Results Meet Requirements**

## Out-of-band / out-of-block Emissions (including intermodulation) §4.7.2

### Test Data: 25 kHz Intermodulation with AGC




**Results Meet Requirements**

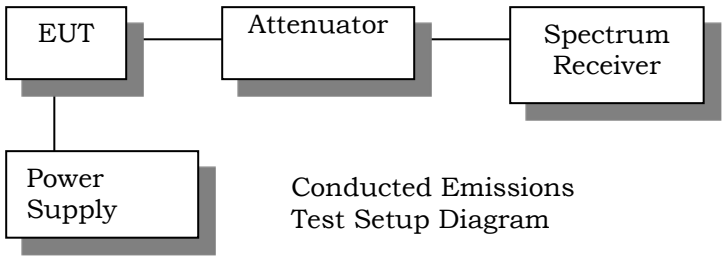
## ANTENNA CONDUCTED EMISSIONS §4.7

**Rule Part No.:** 47CFR90.219(e)(3)
KDB 935210-D05 v01r01 §4.7.3

**Requirements:** -13 dBm in any 100 kHz bandwidth

**Procedure:** KDB935210 Measurement Guidance for Industrial Boosters
§ 4.7.1 General
§ 4.7.3 EUT Spurious emissions conducted measurements

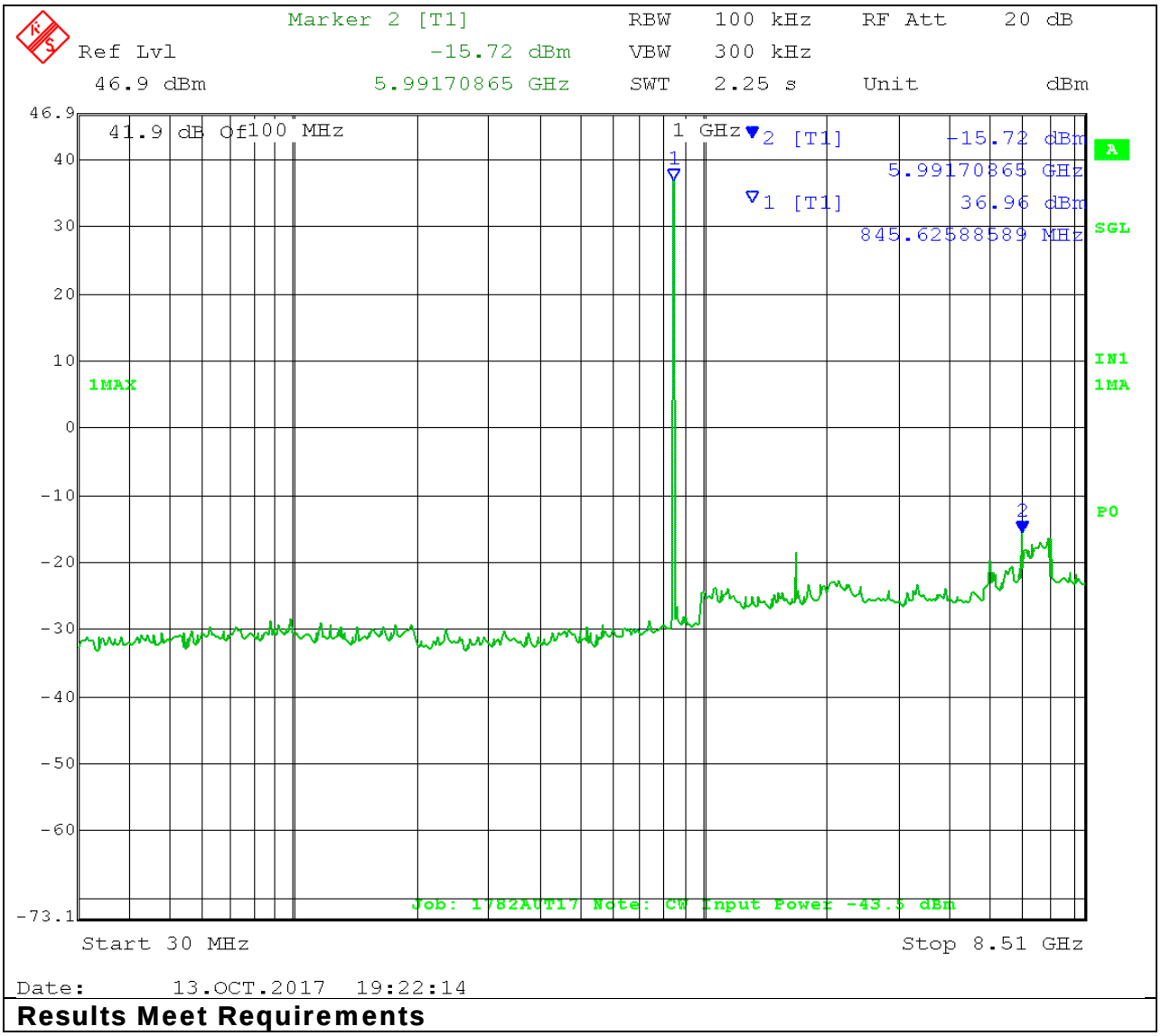
**Test Setup Diagram:**




Conducted Emissions
Test Setup Diagram

## ANTENNA CONDUCTED EMISSIONS §4.7

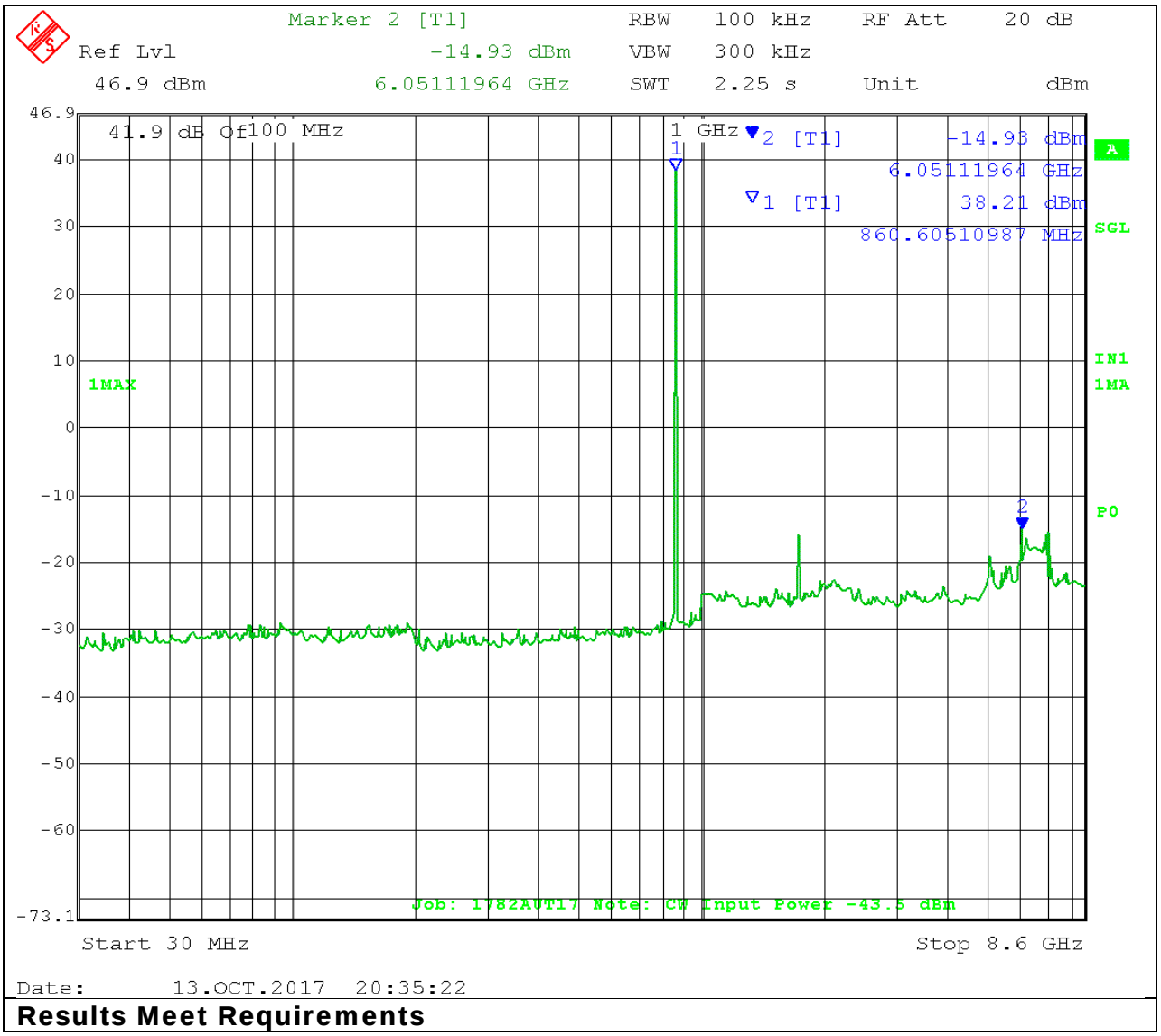
### Test Data: Low End of Band




**Results Meet Requirements**

## ANTENNA CONDUCTED EMISSIONS §4.7

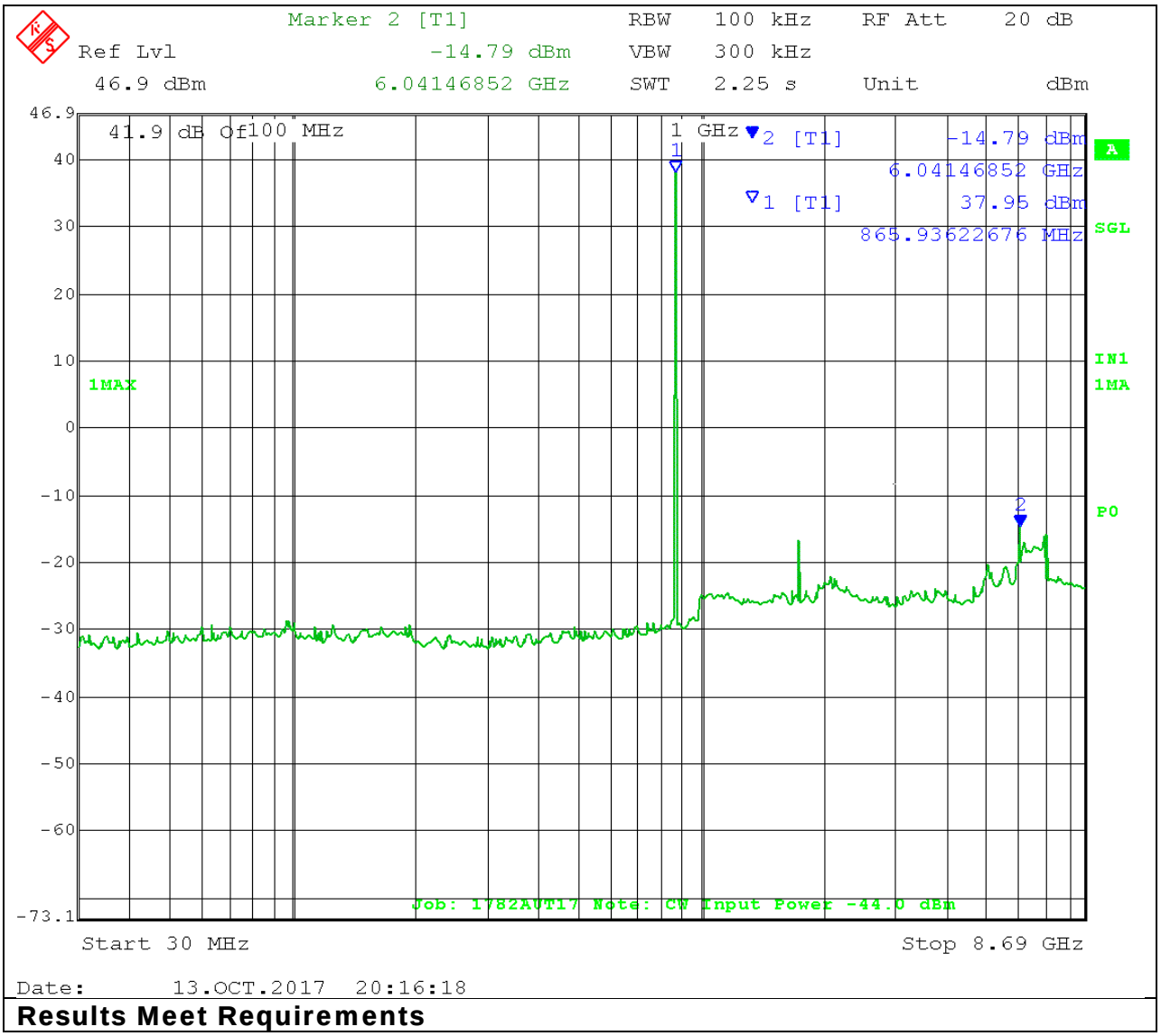
### Test Data: Middle of Band




**Results Meet Requirements**

## ANTENNA CONDUCTED EMISSIONS §4.7

### Test Data: High End of Band




**Results Meet Requirements**

## FREQUENCY STABILITY MEASUREMENTS §4.8

**Rule Part No.:** FCC 90.219(e)(4)(i), FCC 90.213
KDB 935210-D05 v01r01 §4.9

**Requirements:** Reporting Only

**Procedure:** KDB935210 Measurement Guidance for Industrial Boosters
§ 4.8 Frequency Stability Measurements

Section 90.219(e)(4)(i) requires that a signal being retransmitted by an amplifier, repeater, or industrial booster meets the frequency stability requirements of Section 90.213. However, this requirement presumes that the EUT processes an input signal in ways that can influence the output signal frequency/frequencies; however, most signal boosters do not incorporate an oscillator). If the amplifier, booster, or repeater does not alter the input signal in any way, then a frequency stability test may not be required.

**Result: Not required.**

## FIELD STRENGTH OF SPURIOUS RADIATION EMISSIONS §4.9

**Rule Part No.:** 47CFR90.210
KDB 935210-D05 v01r01 §4.9

**Requirements:** -13 dBm in any 100 kHz bandwidth

**Procedure:** KDB935210 Measurement Guidance for Industrial Boosters
§ 4.7.1 General
§ 4.9 Spurious emissions radiated measurements

The tabulated data shows the results of the radiated field strength emissions test. The spectrum was scanned from 9 KHz to at least the tenth harmonic of the fundamental. The EUT was oriented in the worst-case polarity, and was scanned in the worst-case emission range as determined in prior testing. Measurements were made at the test site of **TIMCO ENGINEERING, INC. located at 849 NW State Road 45, Newberry, FL 32669.**

### Test Data: Radiated Emission Table

| Emission Frequency (MHz) | Antenna Polarity | ERP (dBm) | Limit (dBm) | Margin (dBm) |
|---|---|---|---|---|
| 479.490 | V | -49.07 | -13.00 | 36.07 |
| 7740.000 | V | -49.40 | -13.00 | 36.40 |
| 8600.000 | V | -49.68 | -13.00 | 36.68 |
| 7740.000 | H | -49.92 | -13.00 | 36.92 |
| 8600.000 | H | -49.97 | -13.00 | 36.97 |
| 6880.000 | H | -50.08 | -13.00 | 37.08 |

NOTE: The highest six (6) emissions are tabulated above. Emissions under 20 dB within the applicable limit(s) are not required to be shown.

**Results meet requirements**

## EQUIPMENT LIST

| Device | Manufacturer | Model | Serial Number | Cal/Char Date | Due Date |
|---|---|---|---|---|---|
| Coaxial Cable - BMBM-0065-01 Black DC-2G | Belden | | BMBM-0065-01 | 07/18/16 | 07/18/18 |
| Antenna: Biconical 1096 | Eaton | 94455-1 | 1096 | 08/01/17 | 08/01/19 |
| Antenna: Log-Periodic 1243 | Eaton | 96005 | 1243 | 02/09/16 | 02/09/18 |
| Coaxial Cable - Chamber 3 cable set (backup) | Micro-Coax | Chamber 3 cable set (backup) | KMKM-0244-02 ; KMKM-0670-01; KFKF-0197-00 | N/A | N/A |
| CHAMBER | Panashield | 3M | N/A | 04/25/16 | 12/31/17 |
| HP Signal Generator | HP | 8648C | 3847A04696 | 04/05/2017 | 04/05/2019 |
| Antenna: Double-Ridged Horn/ETS Horn 2 | ETS-Lindgren | 3117 | 00041534 | 03/01/17 | 03/01/19 |
| EMI Test Receiver R & S ESIB 40 Screen Room | Rohde & Schwarz | ESIB 40 | 100274 | 08/16/16 | 08/16/18 |
| Software: Field Strength Program | Timco | N/A | Version 4.10.7.0 | N/A | N/A |
| Antenna: Active Loop | ETS-Lindgren | 6502 | 00062529 | 11/18/15 | 11/18/17 |
| Type K J Thermometer | Martel | 303 | 080504494 | 10/26/15 | 11/26/17 |
| EMI Test Receiver R & S ESU 40 Chamber | Rohde & Schwarz | ESU 40 | 100320 | 04/01/16 | 04/01/18 |
| Coaxial Cable - BMBM-0130-00 Black | Alpha Wire | | BMBM-0130-00 | 05/24/16 | 05/24/18 |
| Coaxial Cable - BMBM-0155-01 Black | BELDEN | | BMBM-0155-01 | 06/01/16 | 06/01/18 |
| Coaxial Cable - BMBM-0065-00 Black | Belden | | BMBM-0065-00 | 06/08/16 | 06/08/18 |
| Coaxial Cable - BMBM-0155-00 Black | MIYAZAKI | | BMBM-0155-00 | 05/24/16 | 05/24/18 |
| Splitter 1-1000MHz | Mini-Circuits | ZFSC-4-1-BNC+ | U115700825 | N/A | N/A |
| Signal Generator R & S SMU 200A | Rohde & Schwarz | SMU200A | 103195 | 02/29/16 | 02/28/18 |
| Non Radiating 50 OHM Load | Sierra Elec | 160B-600X | 1038 | 09/13/16 | 09/13/18 |
| Attenuator N 20dB 2W DC-13G | Narda | 757C | 30201 | 05/24/17 | 05/24/19 |
| Attenuator N 20dB 2W DC-13G | Narda | 777C | 36124 | 05/24/17 | 05/23/19 |
| Bore-sight Antenna Positioning Tower | Sunol Sciences | TLT2 | N/A | N/A | N/A |
| Noise Source 10MHz - 18GHz | Agilent | 346B | MY44421884 | N/A | N/A |

***EMI RECEIVER SOFTWARE VERSION**

The receiver firmware used was version 4.43 Service Pack 3

## STATE OF THE MEASUREMENT UC –

The data and results referenced in this document are true and accurate. The measurement uncertainty was calculated for all measurements listed in this test report according To CISPR 16–4 or ENTR 100-028 Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: "Uncertainty in EMC Measurements" and is documented in the Timco Engineering, Inc. quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.
Hereafter the best measurement capability for Timco Engineering, Inc. is reported:

| Test Items | Measurement Uncertainty | Notes |
|---|---|---|
| RF Frequency Accuracy | ± 49.5 Hz | (1) |
| RF Conducted Power | ±0.93dB | (1) |
| Conducted spurious emission of transmitter valid up to 40GHz | ±1.86dB | |
| Occupied Bandwidth | ±2.65% | |
| Audio Frequency Response | ±1.86dB | |
| Modulation limiting | ±1.88% | |
| Radiated RF Power | ±1.4dB | |
| Maximum frequency deviation:<br>Within 300 Hz and 6kHz of audio freq.<br>Within 6kHz and 25kHz of audio Freq. | <br>±1.88%<br>±2.04% | |
| Rad Emissions Sub Meth up to 26.5GHz | ±2.14dB | |
| Rad Emissions Sub Meth up to 18-40 GHz | ±2.04% | |
| Adjacent channel power | ±1.47dB | (1) |
| Transient Frequency Response | ±1.88% | |
| Temperature | ±1.0°C | (1) |
| Humidity | ±5.0% | |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

## END OF REPORT