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CLASS B INDUSTRIAL BOOSTER FCC PART 90 TEST REPORT

Applicant	FIPLEX COMMUNICATIONS INC.
Address	7331 N.W. 54TH STREET MIAMI FL 33166 USA
FCC ID	P3TDHS00-M
Model Number	DHS00-M
Product Description	PS800 DIGITAL MASTER UNIT
Date Sample Received	10/6/2017
Date Tested	11/11/2017
Tested By	Tim Royer
Approved By	Sid Sanders
Test Results	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL

Report Number	Version Number	Description	Issue Date
1783AUT17TestReport	Rev1	Initial Issue	11/13/2017
1783AUT17TestReport	Rev2	Clerical Revisions	11/16/2017

**THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.**

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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: Tim Royer, Testing Technician/Project Manager

Date: 11/13/2017



Reviewed and approved by:

Name and Title: Sid Sanders Engineer

Date: 11/13/2017

EUT DESCRIPTION

EUT Description	PS800 DIGITAL MASTER UNIT
FCC ID	P3TDHS00-M
Model Number	DHS00-M
Operating Frequency	806 MHz, 815 MHz, 824 MHz
Type of Emission	16K0F3E, 11K3F3E, 8K10F1E, 8K10F1W, 8K30F1E, 4K00F1E, 5K76G1E, 9K80D7W, 20K0D1E, 7K60FXE
EUT Power Source	<input checked="" type="checkbox"/> 110–120Vac/50– 60Hz
	<input type="checkbox"/> DC Power 27V
	<input type="checkbox"/> Battery Operated Exclusively
Test Item	<input type="checkbox"/> Prototype
	<input checked="" type="checkbox"/> Pre-Production
	<input type="checkbox"/> Production
Type of Equipment	<input checked="" type="checkbox"/> Fixed
	<input type="checkbox"/> Mobile
	<input type="checkbox"/> Portable
Test Conditions	The temperature was 26°C 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)

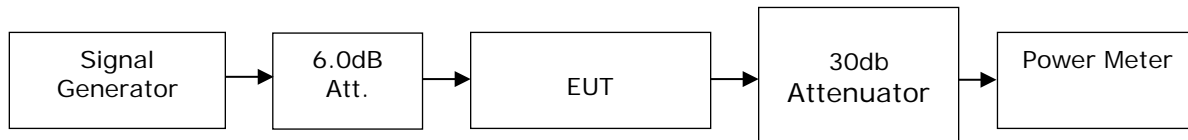
Requirements: 5.0Watts ERP

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:

$$\text{Gain}_{\text{dB}} = \text{Output Power}_{\text{dBm}} - \text{Input Power}_{\text{dBm}}$$

Setup Diagram:



Test Data: Uplink Measurement Table

Mode	AGC	Input Freq (MHz)	Input Power (dBm)	Output Power (dBm)	Limit (dBm)	Margin (dB)	Gain (dB)
CW	Below	806.00	-57.73	23.41	36.99	13.58	81.14
CW	+3 dB	806.00	-54.73	23.72	36.99	13.27	78.45
CW	Below	815.00	-57.53	23.81	36.99	13.18	81.34
CW	+3 dB	815.00	-54.53	24.11	36.99	12.88	78.64
CW	Below	824.00	-57.63	23.85	36.99	13.14	81.48
CW	+3 dB	824.00	-54.63	24.05	36.99	12.94	78.68

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

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

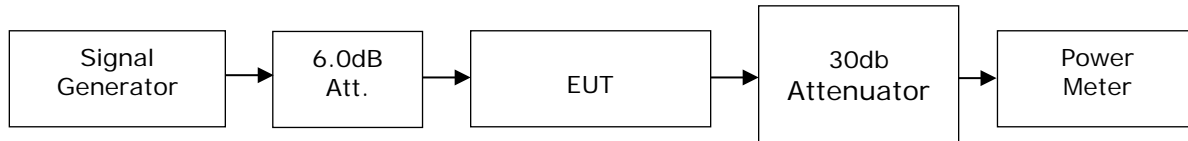
AGC THRESHOLD §4.2

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: Uplink Measurement Table

Gen Freq (MHz)	Gen Output (dBm)	Insertion Loss (dB)	Booster Input (dBm)	Booster Output (dBm)
815	-37.0	20.9	-16.1	22.00
815	-36.0	20.9	-15.1	23.00
815	-35.0	20.9	-14.1	23.88
815	-34.0	20.9	-13.1	24.32

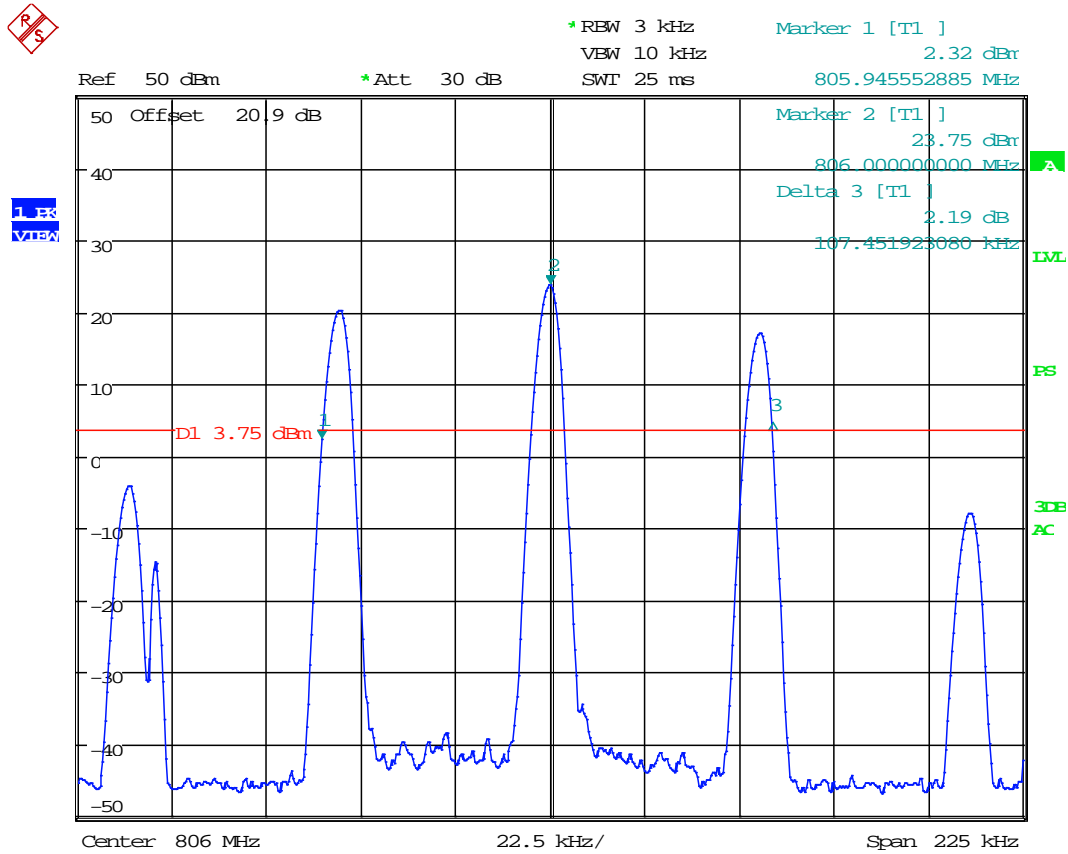
OUT-OF-BAND REJECTION § 4.3

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

Requirements: Reporting Only

Procedure: KDB 935210 §4.3 Out of band rejection

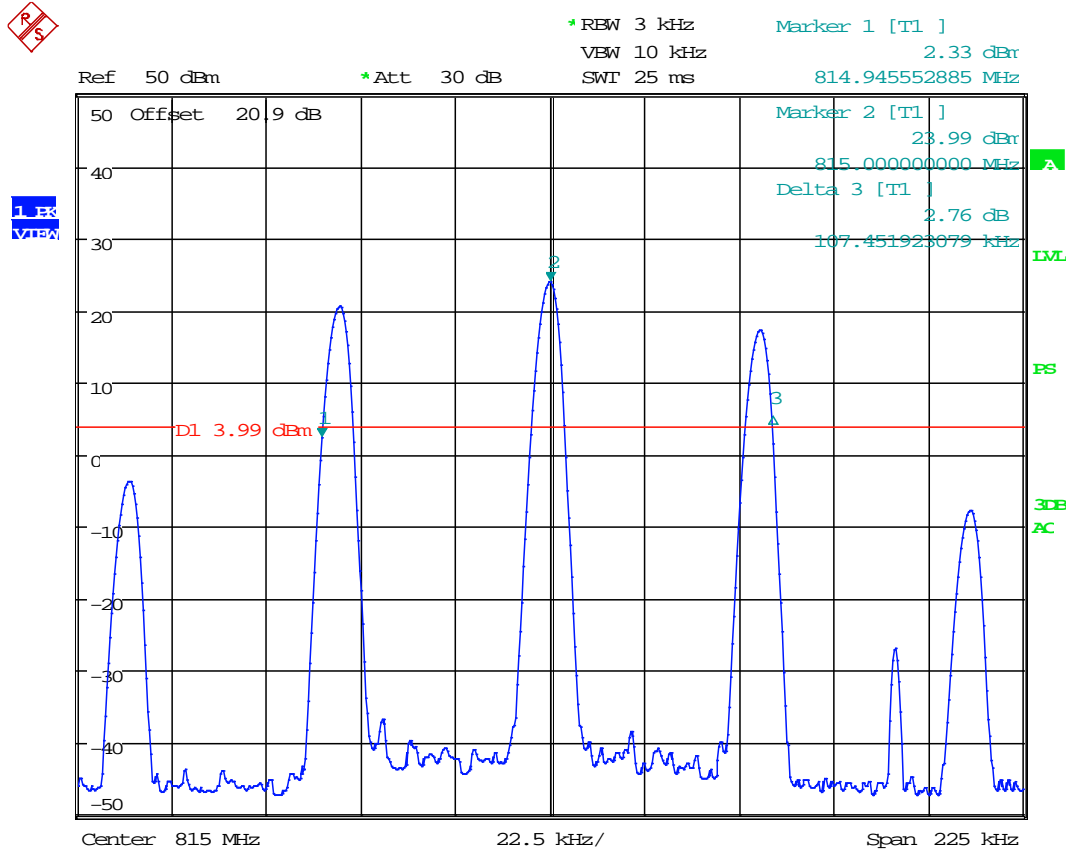
Test Data: Low End of Band Plot – 806.000 MHz



Date: 16.NOV.2017 10:06:35

Out-of-Band Rejection §4.3

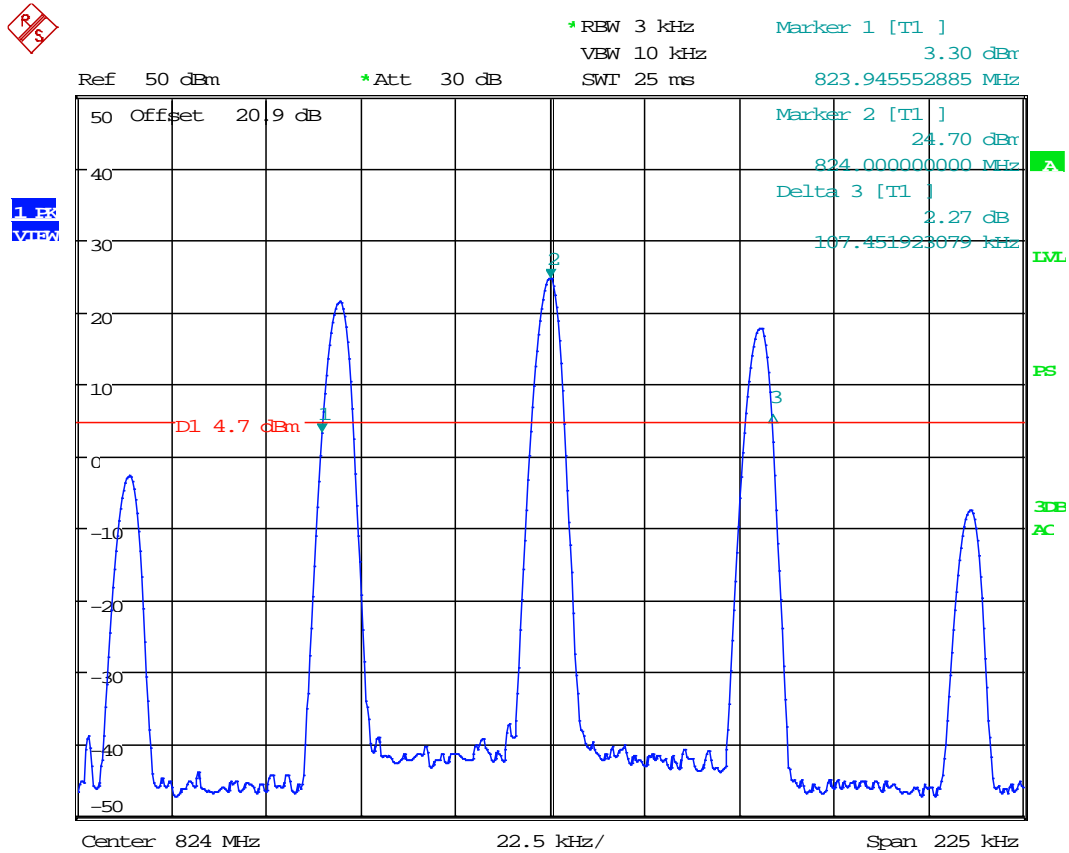
Test Data: Middle of Band Plot – 815.000 MHz



Date: 16.NOV.2017 10:04:14

Out-of-Band Rejection §4.3

Test Data: High End of Band Plot – 824.000 MHz



Date: 16.NOV.2017 10:00:40

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.

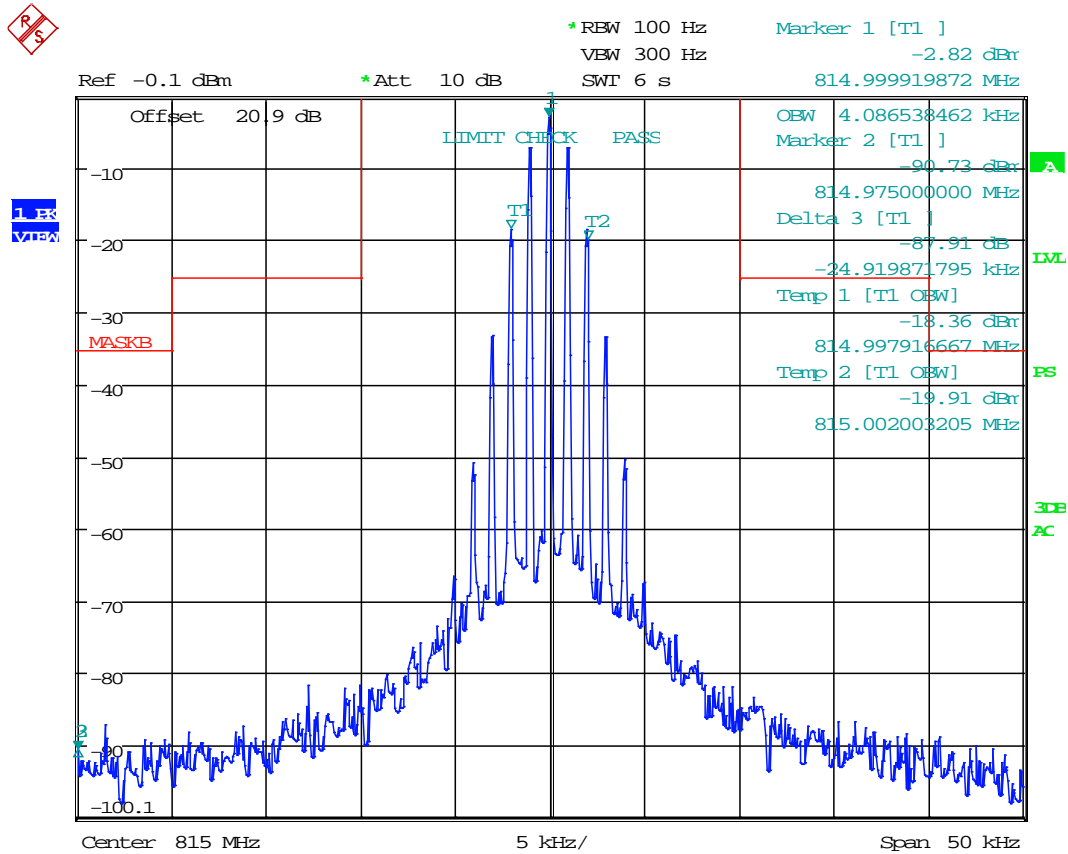
The retransmitted signals continue to meet the unwanted emissions limits of §90.210 applicable to the corresponding received signals (assuming that these received signals meet the applicable unwanted emissions limits by a reasonable margin).

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.

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

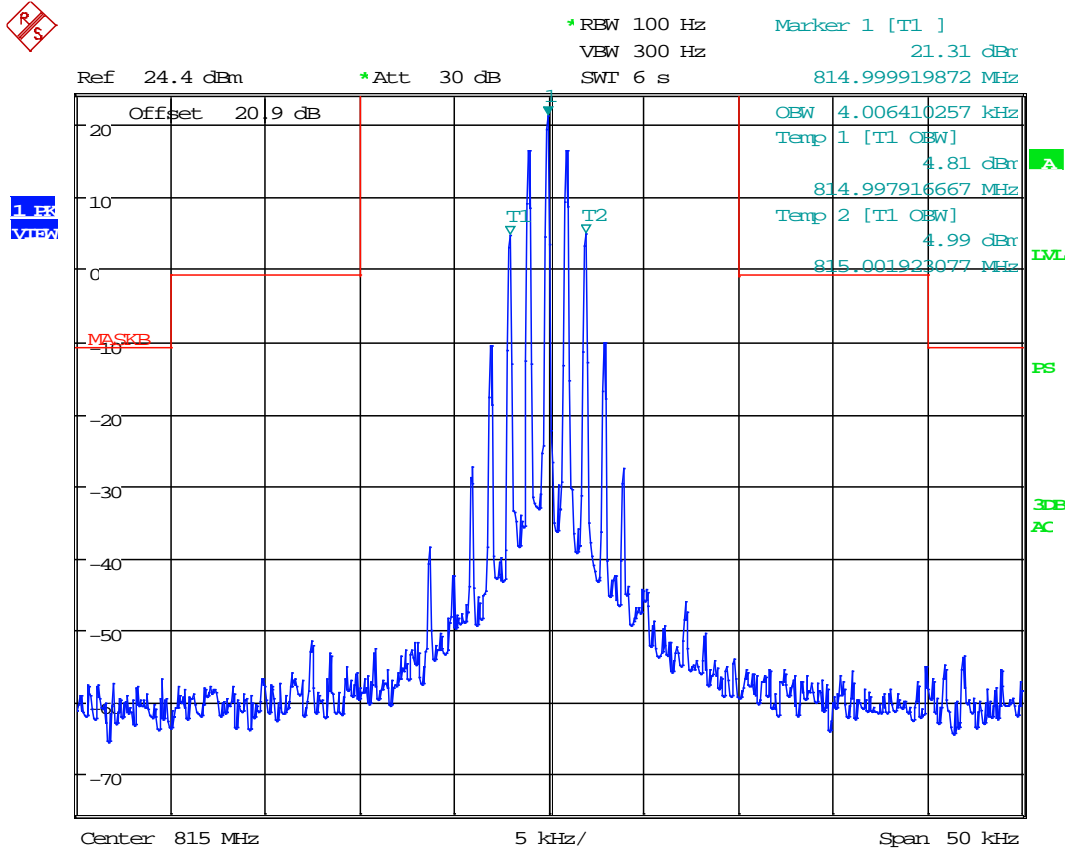
Test Data: Middle of Band Input vs Output – 6.25 kHz Test Signal



Date: 16.NOV.2017 10:24:44

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

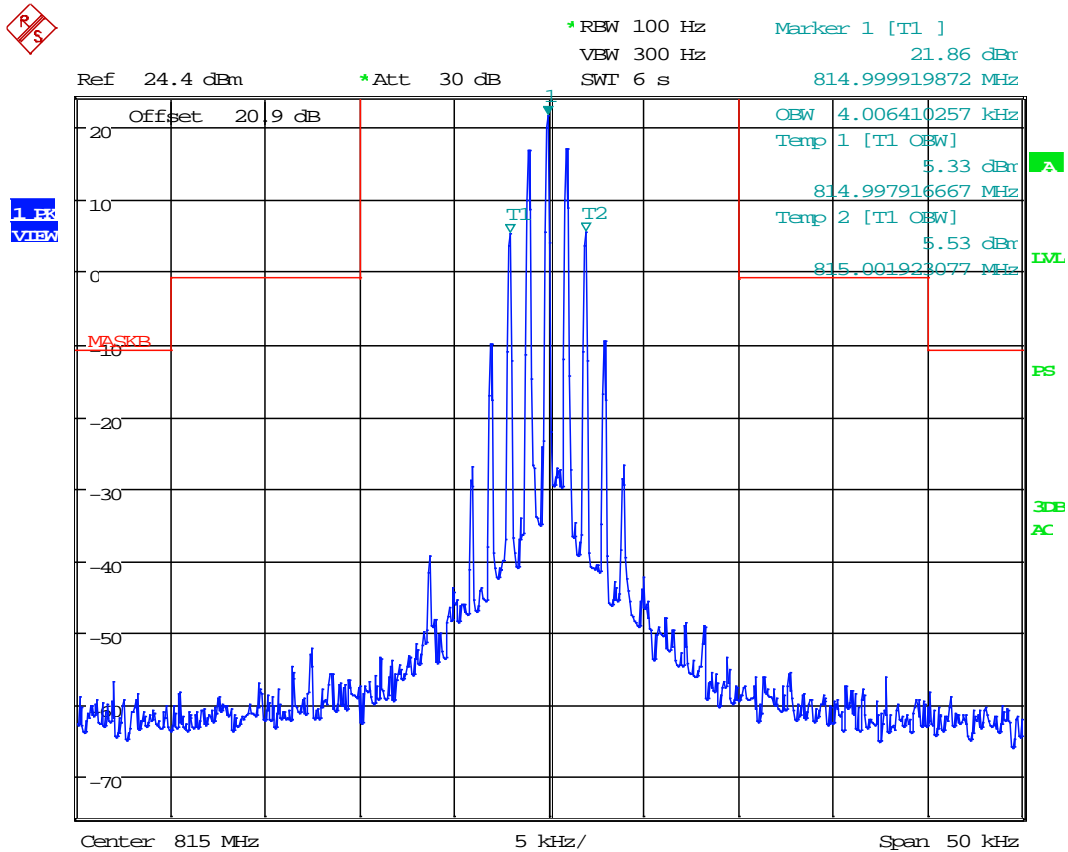
Test Data: Middle of Band Input vs Output – 6.25 kHz Below AGC Threshold



Date: 11.NOV.2017 15:14:07

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

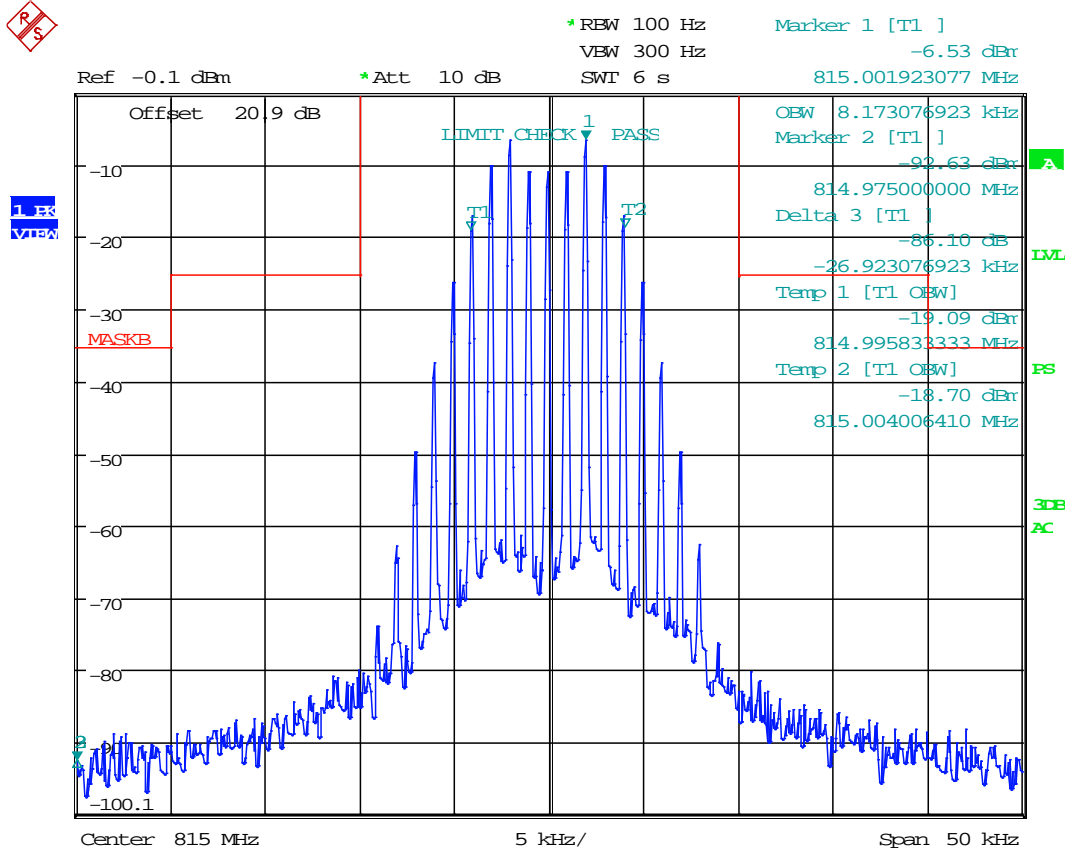
Test Data: Middle of Band Input vs Output – 6.25 kHz + 3 dBm Above AGC Threshold



Date: 11.NOV.2017 15:15:46

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

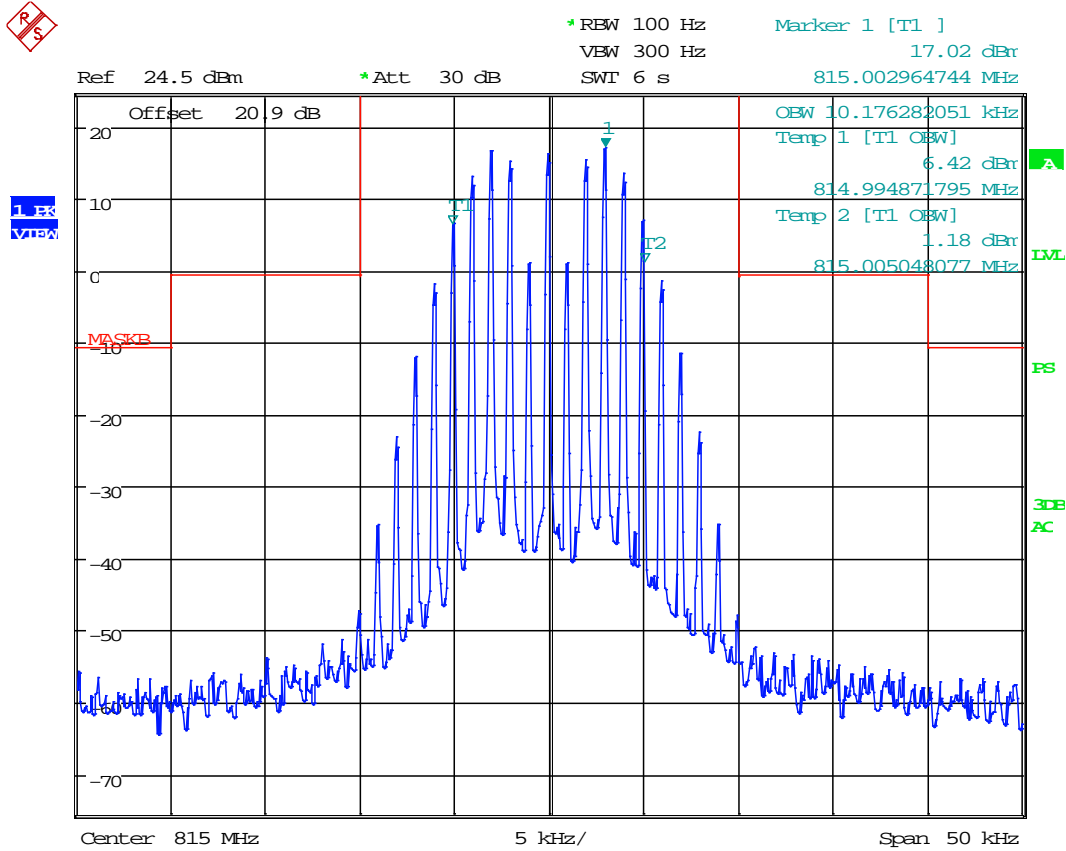
Test Data: Middle of Band Input vs Output – 12.5 kHz Test Signal



Date: 16.NOV.2017 10:26:31

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

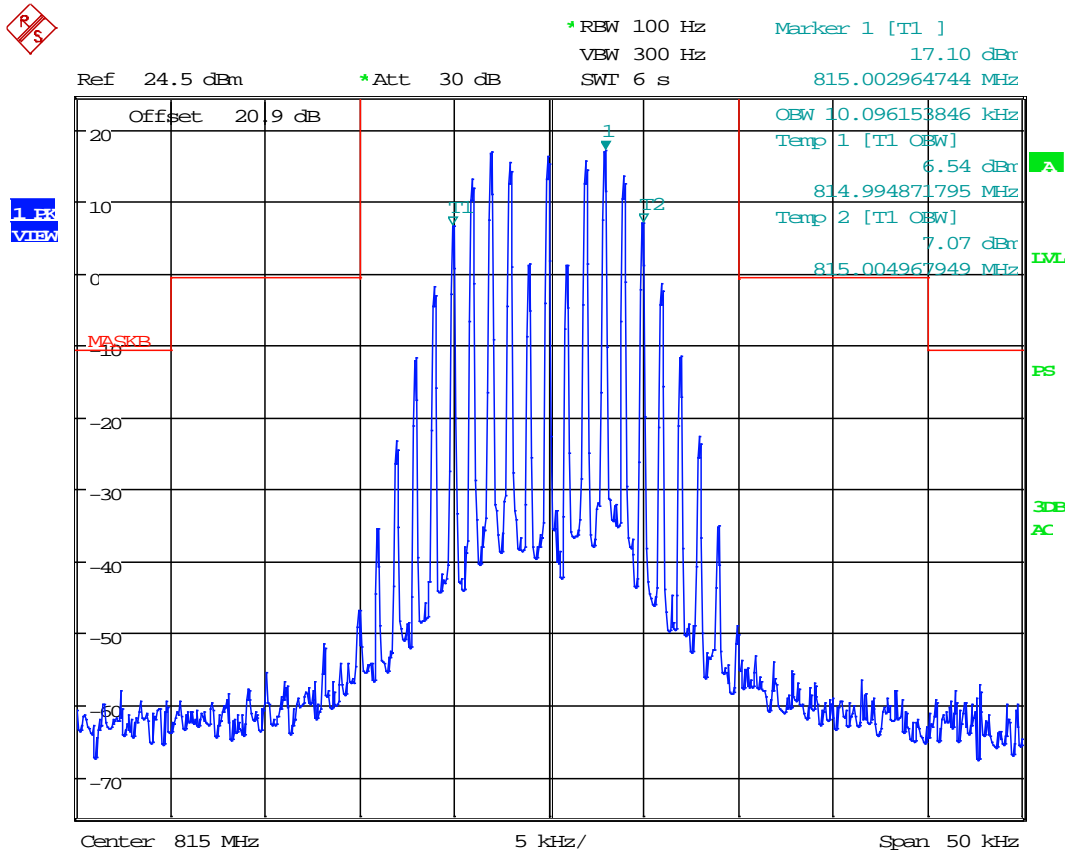
Test Data: Middle of Band Input vs Output – 12.5 kHz Below AGC Threshold



Date: 11.NOV.2017 12:39:45

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

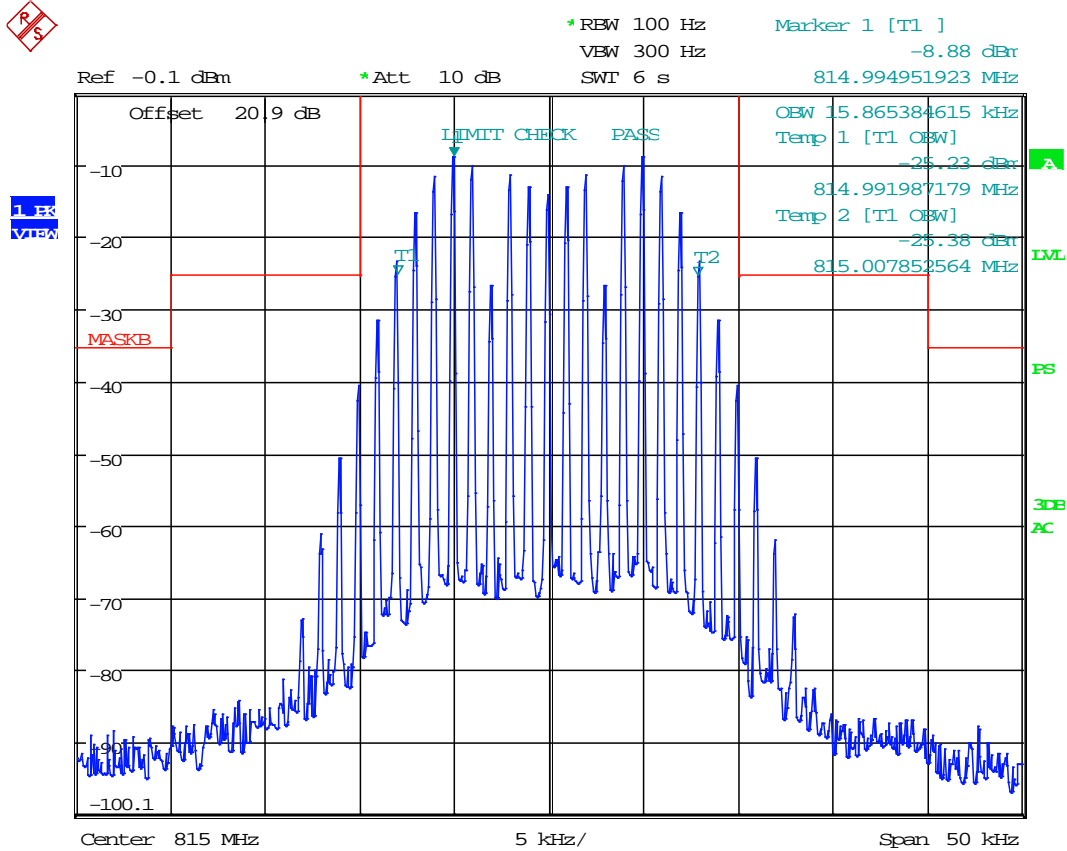
Test Data: Middle of Band Input vs Output – 12.5 kHz + 3 dBm Above AGC Threshold



Date: 11.NOV.2017 12:41:11

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

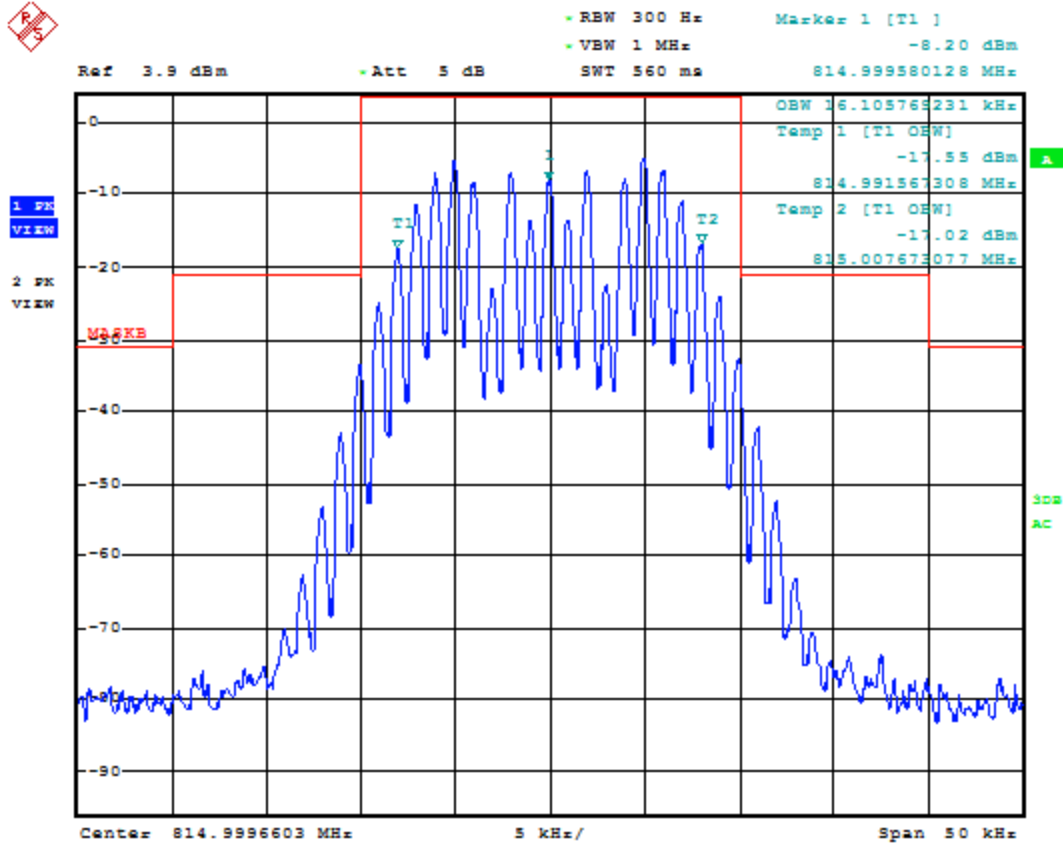
Test Data: Middle of Band Input vs Output – 25 kHz Test Signal



Date: 16.NOV.2017 10:27:38

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

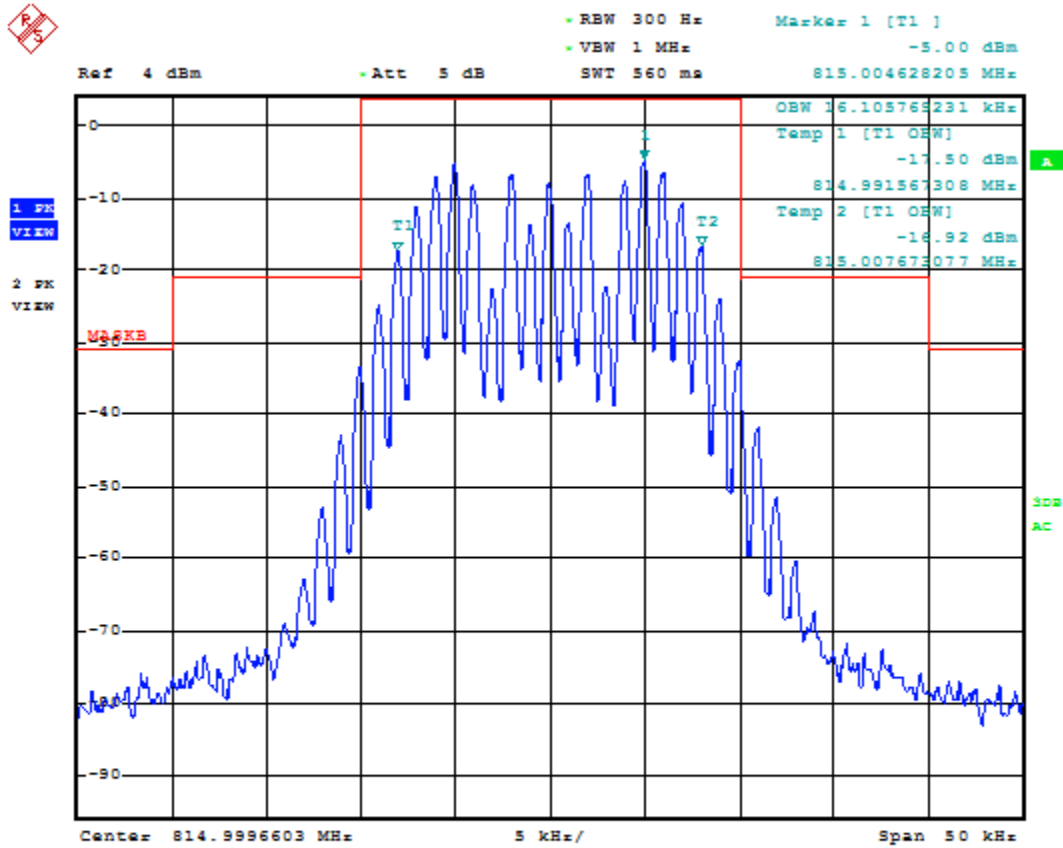
Test Data: Middle of Band Input vs Output – 25 kHz Below AGC Threshold



Date: 10.NOV.2017 07:07:24

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

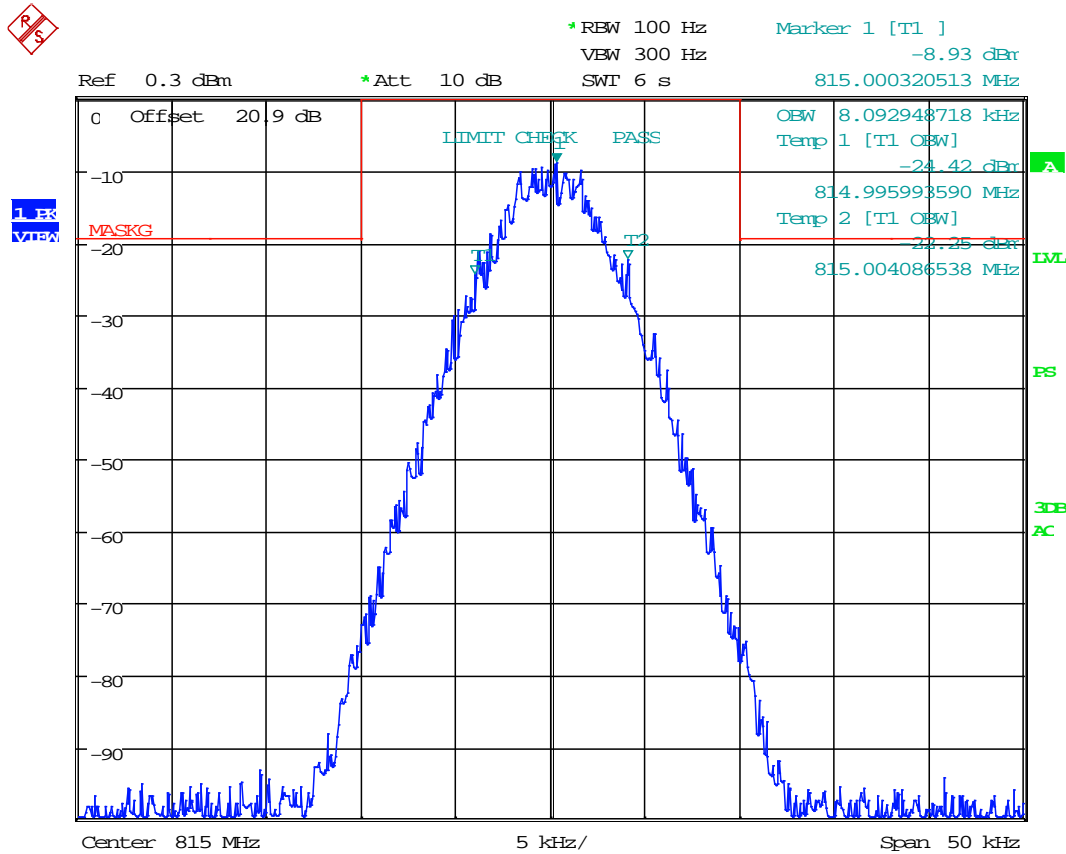
Test Data: Middle of Band Input vs Output – 25 kHz +3 dBm Above AGC Threshold



Date: 10.NOV.2017 07:09:12

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

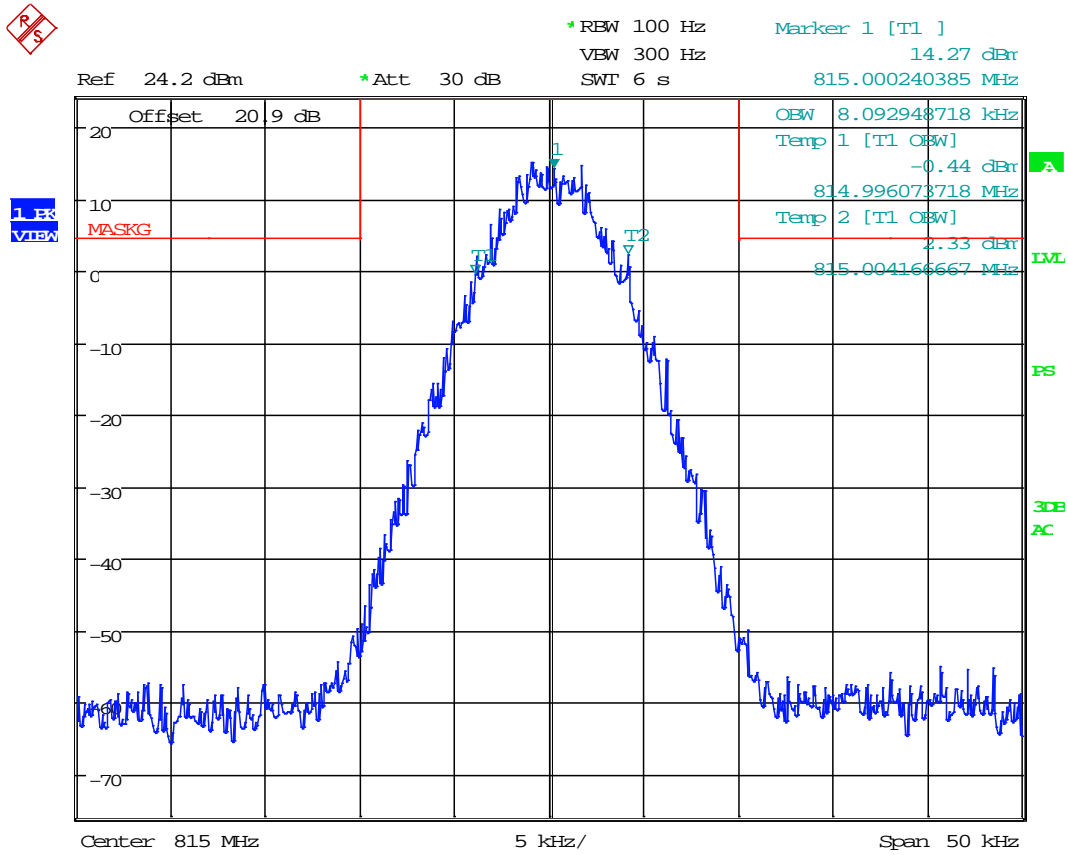
Test Data: Middle of Band Input vs Output – P25 Phase 1 C4FM Test Signal



Date: 16.NOV.2017 10:32:29

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

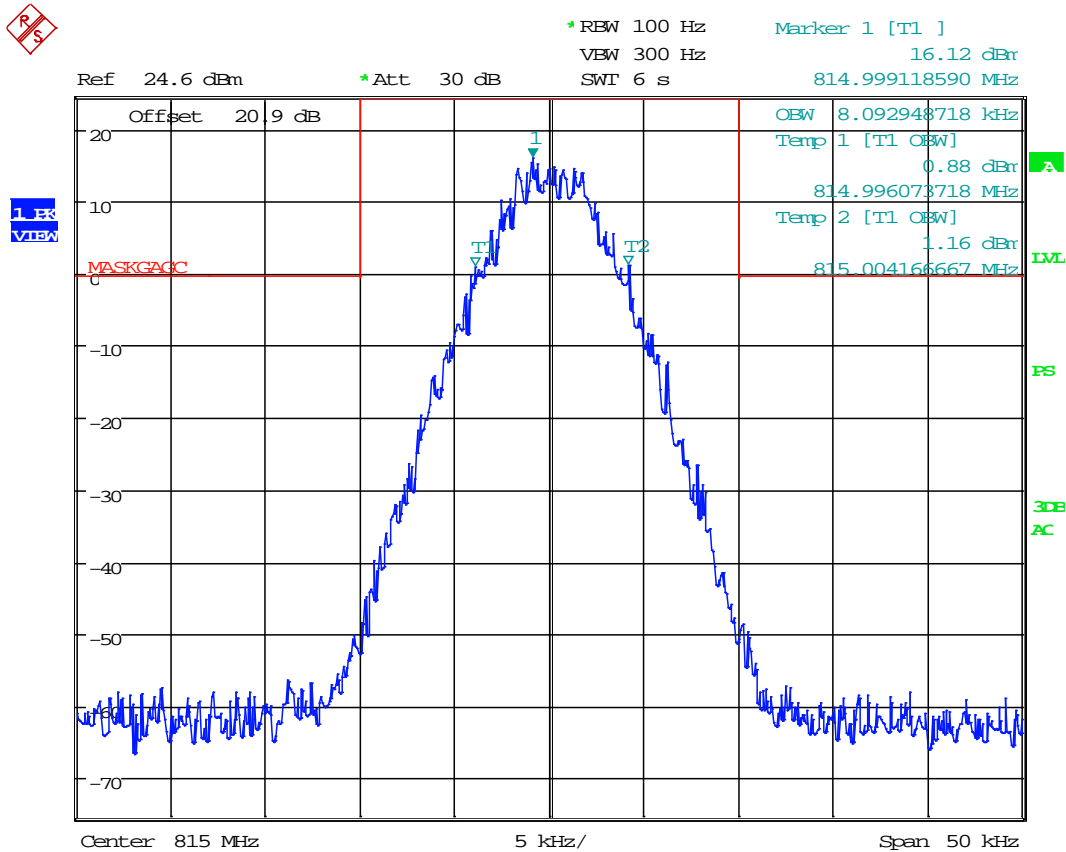
Test Data: Middle of Band Input vs Output – P25 Phase 1 C4FM Below AGC Threshold



Date: 11.NOV.2017 12:58:52

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

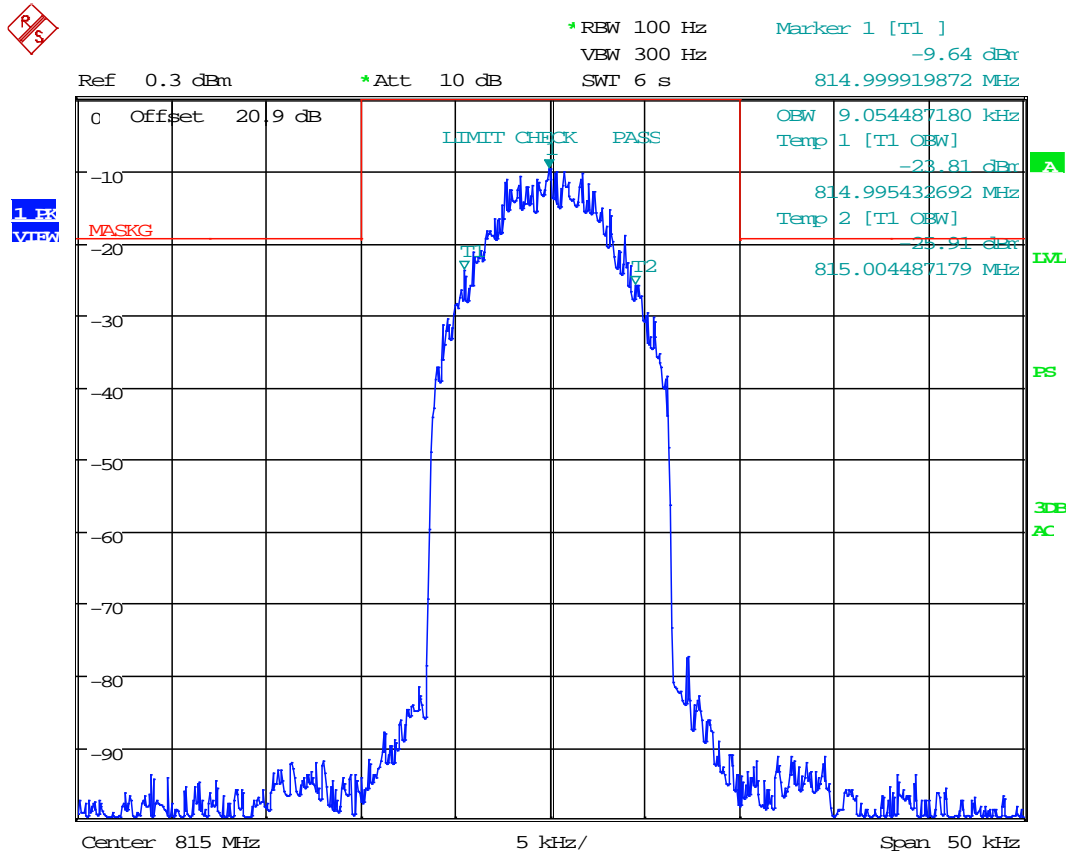
Test Data: Middle of Band Input vs Output – P25 Phase 1 C4FM +3 dBm Above AGC Threshold



Date: 11.NOV.2017 13:38:14

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

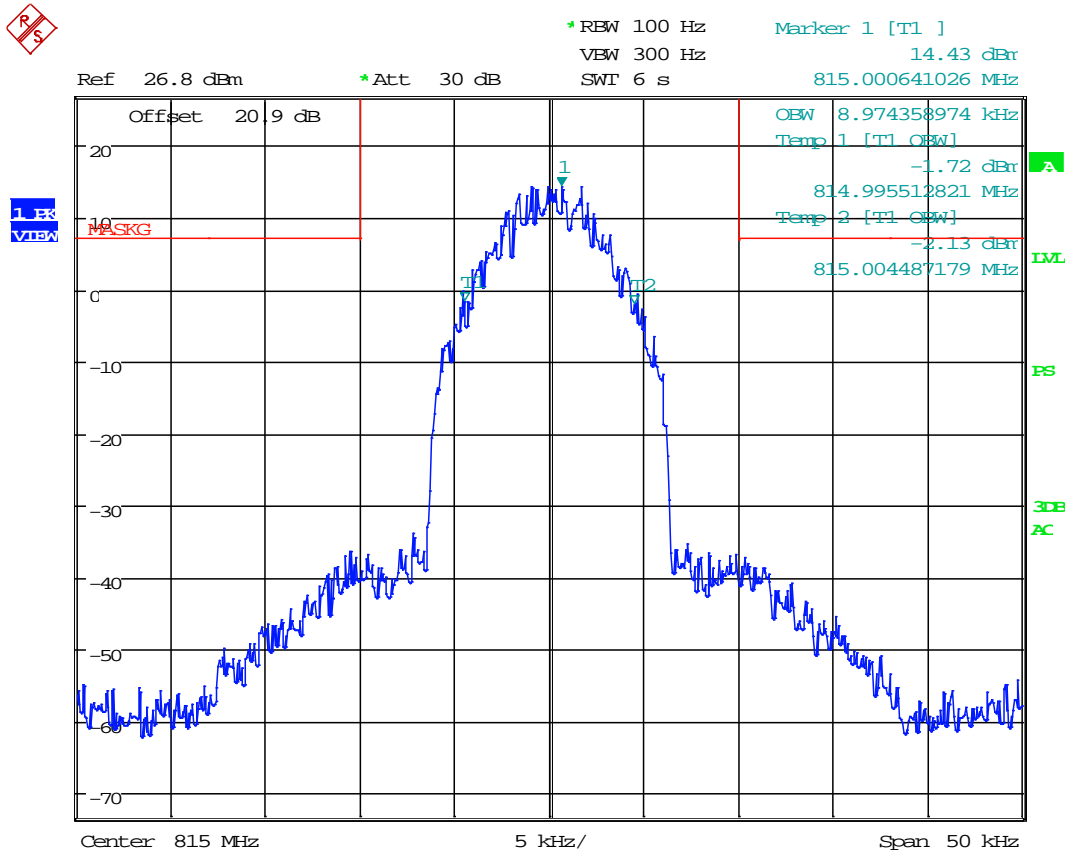
Test Data: Middle of Band Input vs Output – P25 Phase 1 LSM Test Signal



Date: 16.NOV.2017 10:34:04

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

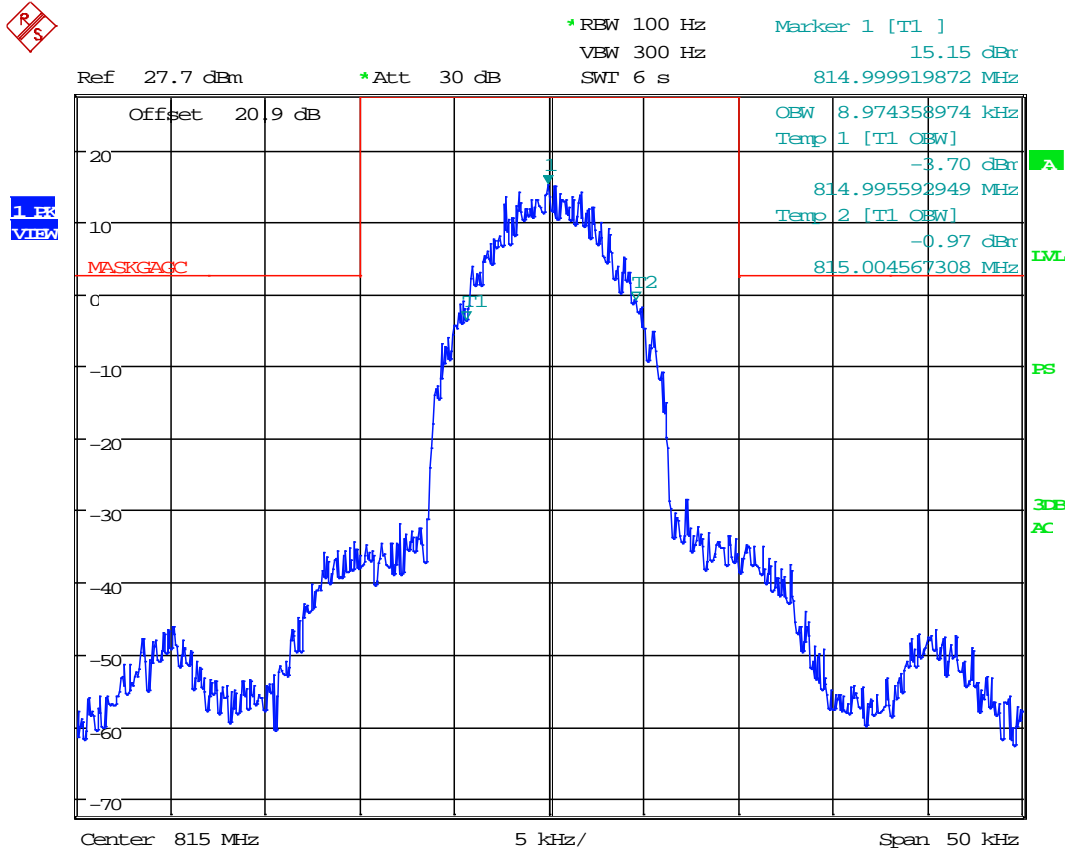
Test Data: Middle of Band Input vs Output – P25 Phase 1 LSM Below AGC Threshold



Date: 11.NOV.2017 13:17:52

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

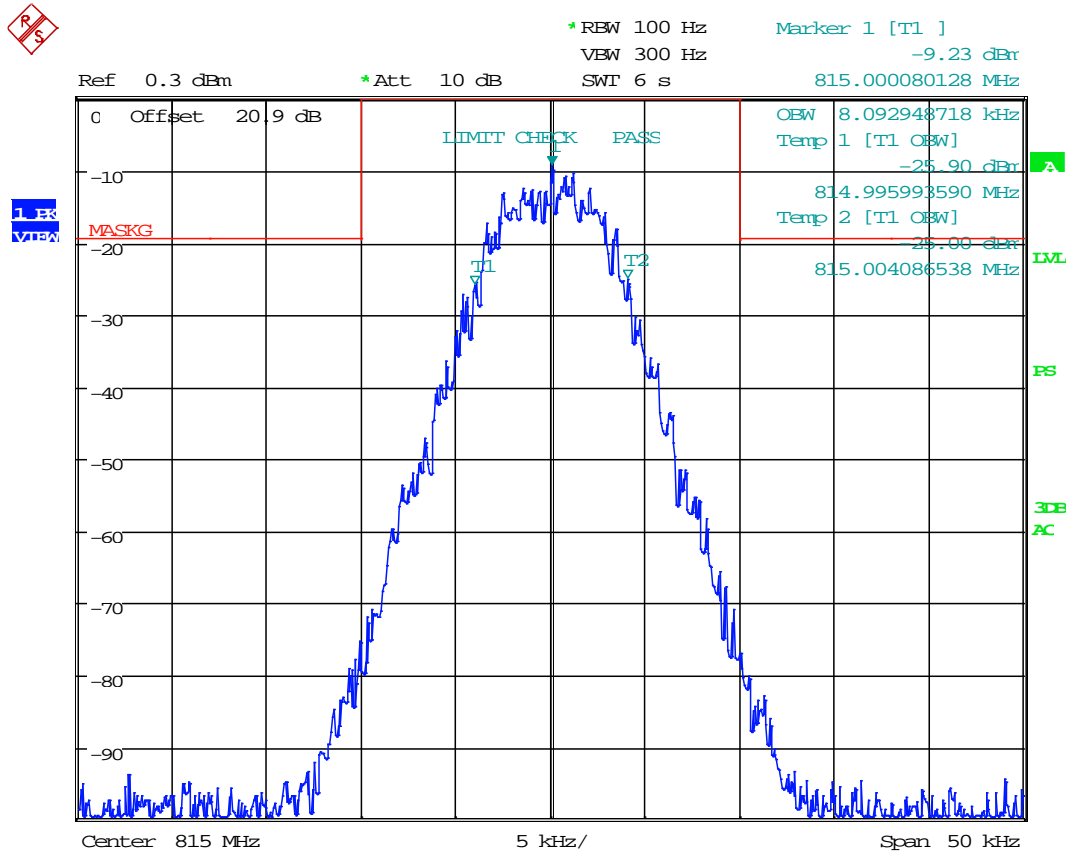
Test Data: Middle of Band Input vs Output – P25 Phase 1 LSM +3 dBm Above AGC Threshold



Date: 11.NOV.2017 13:41:35

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

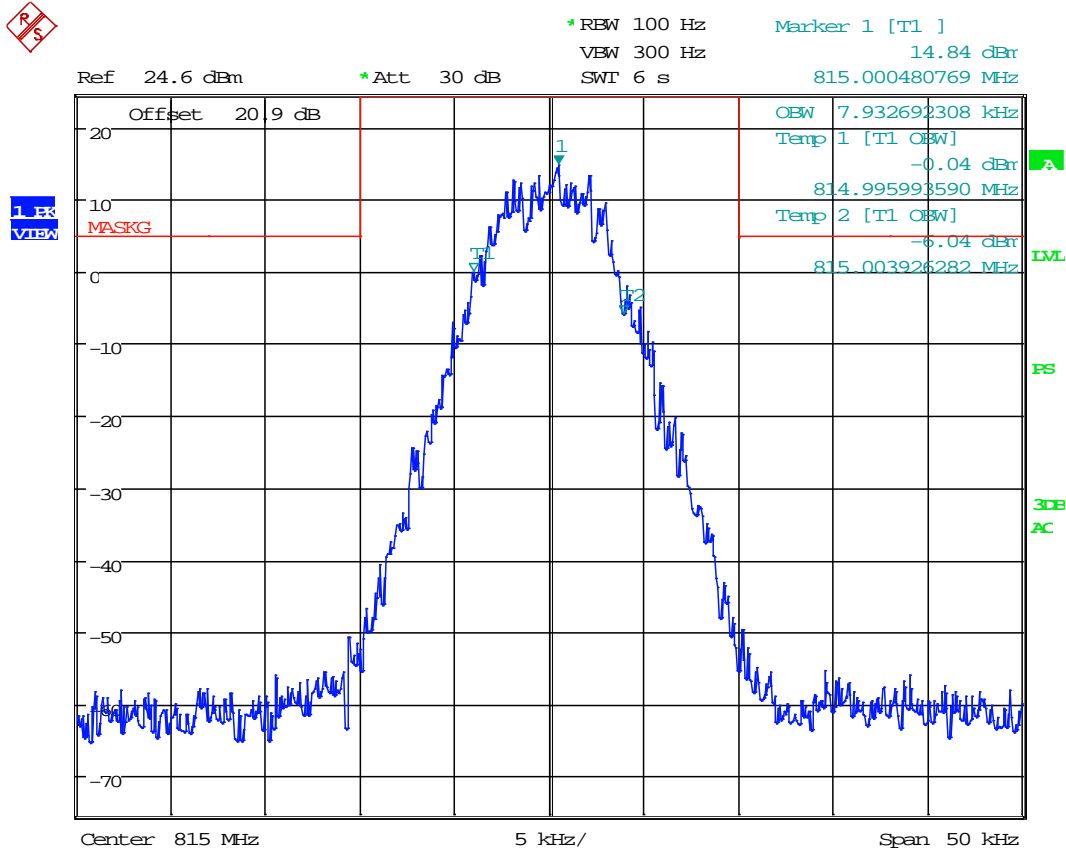
Test Data: Middle of Band Input vs Output – P25 Phase 2 H-CPM Test Signal



Date: 16.NOV.2017 10:35:11

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

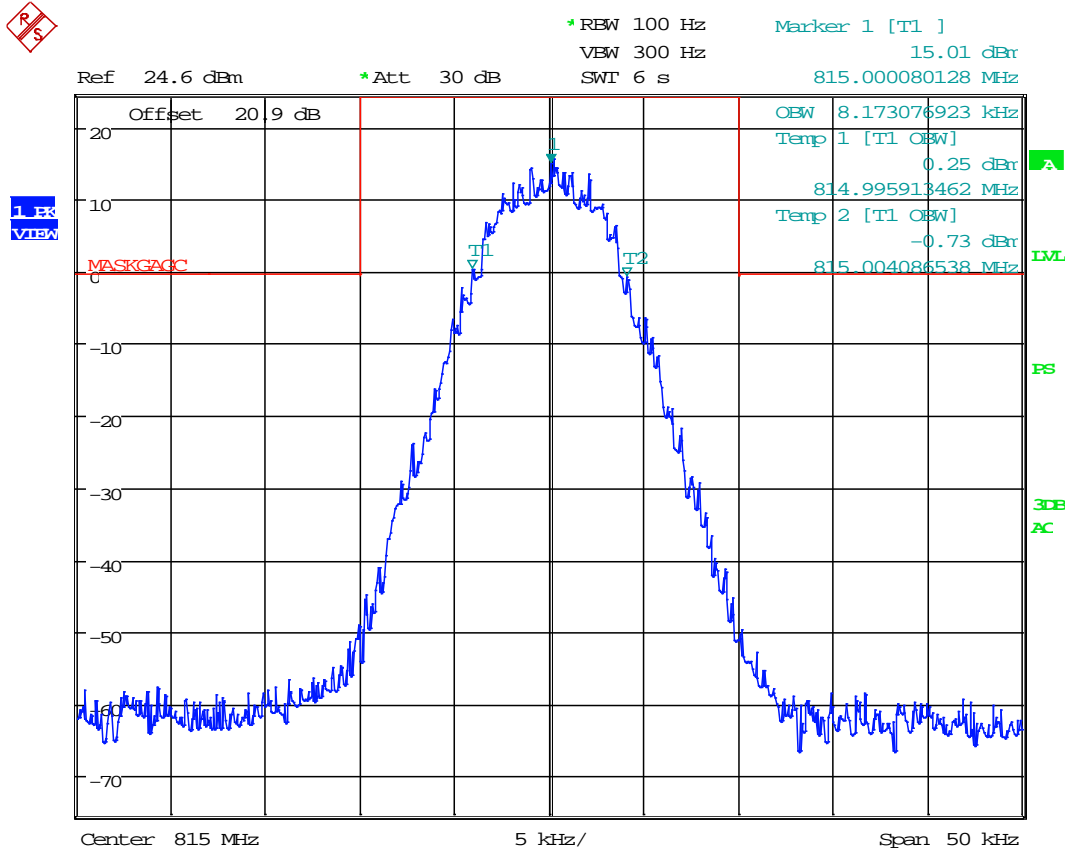
Test Data: Middle of Band Input vs Output – P25 Phase 2 H-CPM Below AGC Threshold



Date: 11.NOV.2017 13:45:38

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

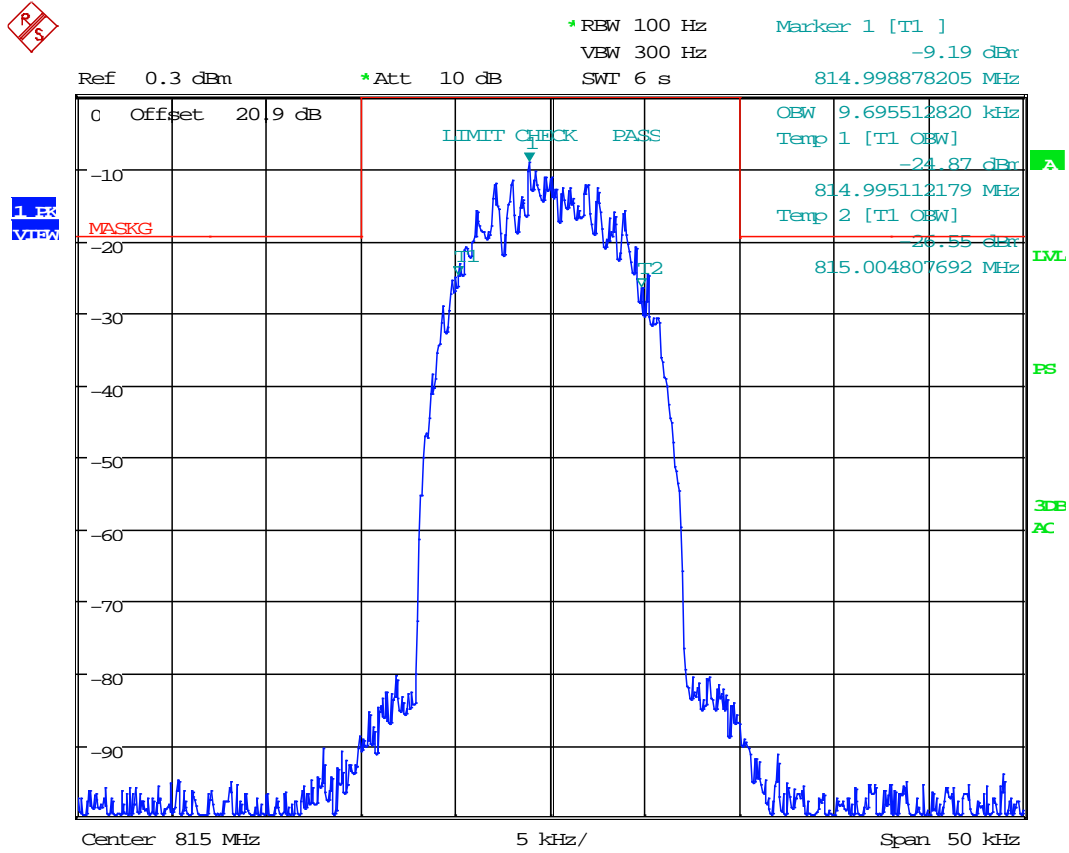
Test Data: Middle of Band Input vs Output – P25 Phase 2 H-CPM +3 dBm Above AGC Threshold



Date: 11.NOV.2017 13:43:39

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

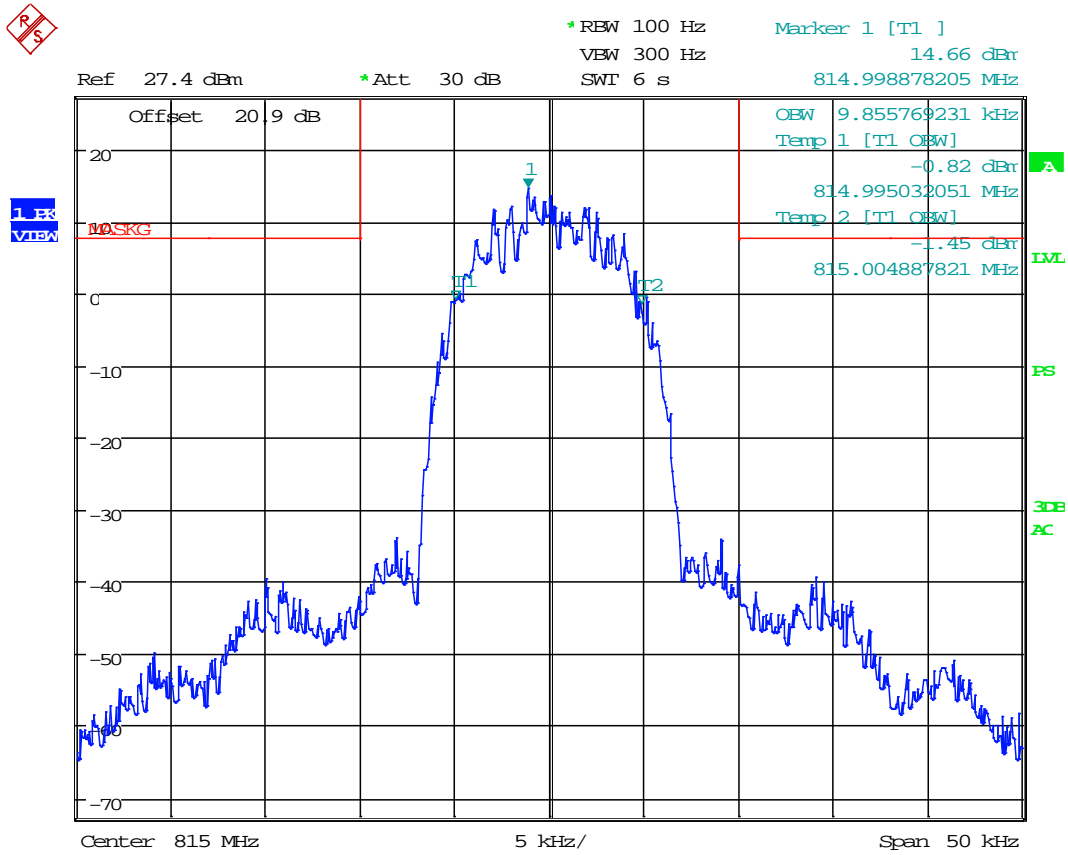
Test Data: Middle of Band Input vs Output – P25 Phase 2 H-DQPSK Test Signal



Date: 16.NOV.2017 10:36:35

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

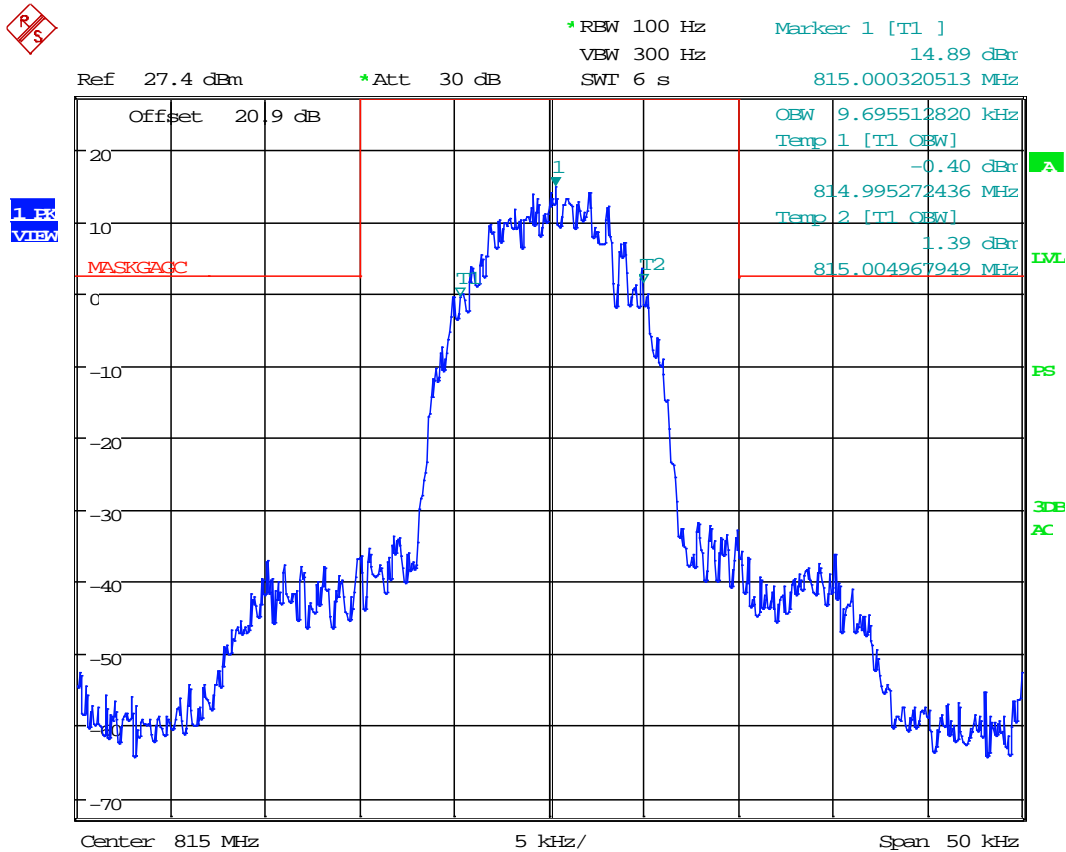
Test Data: Middle of Band Input vs Output – P25 Phase 2 H-DQPSK Below AGC Threshold



Date: 11.NOV.2017 13:55:06

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

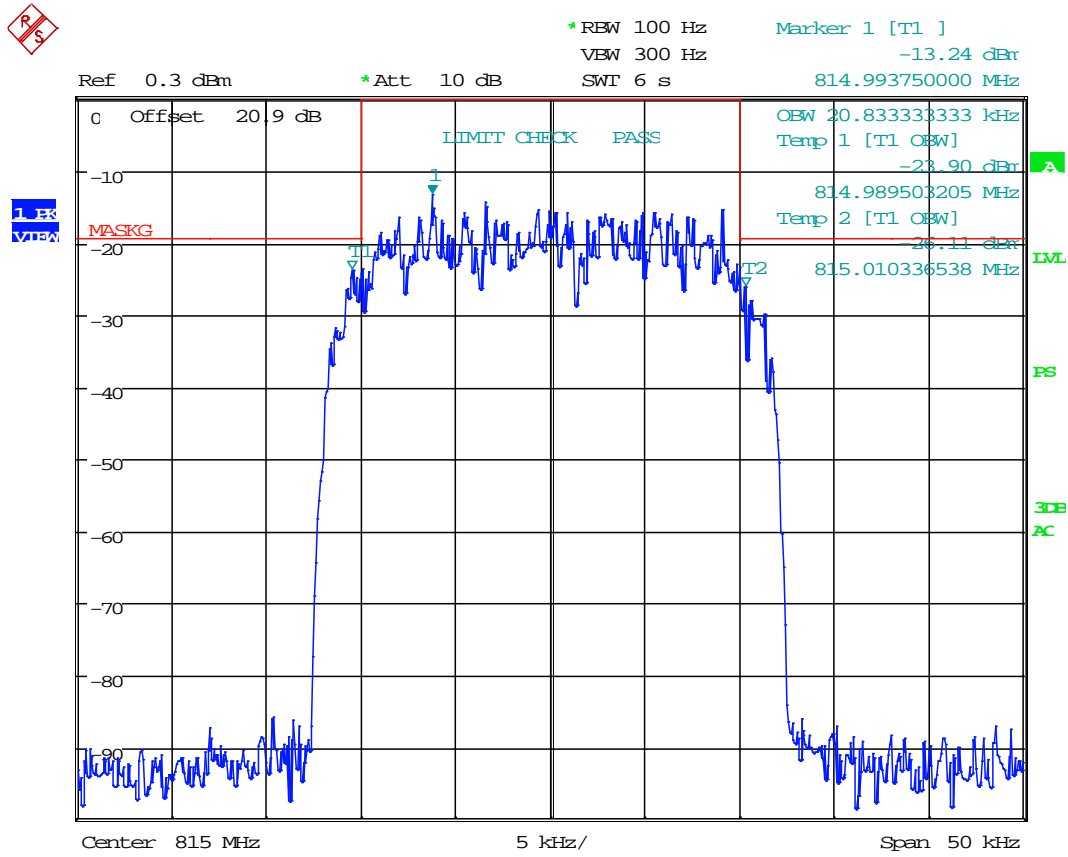
Test Data: Middle of Band Input vs Output – P25 Phase 2 H-DQPSK +3 dBm Above AGC Threshold



Date: 11.NOV.2017 13:57:57

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

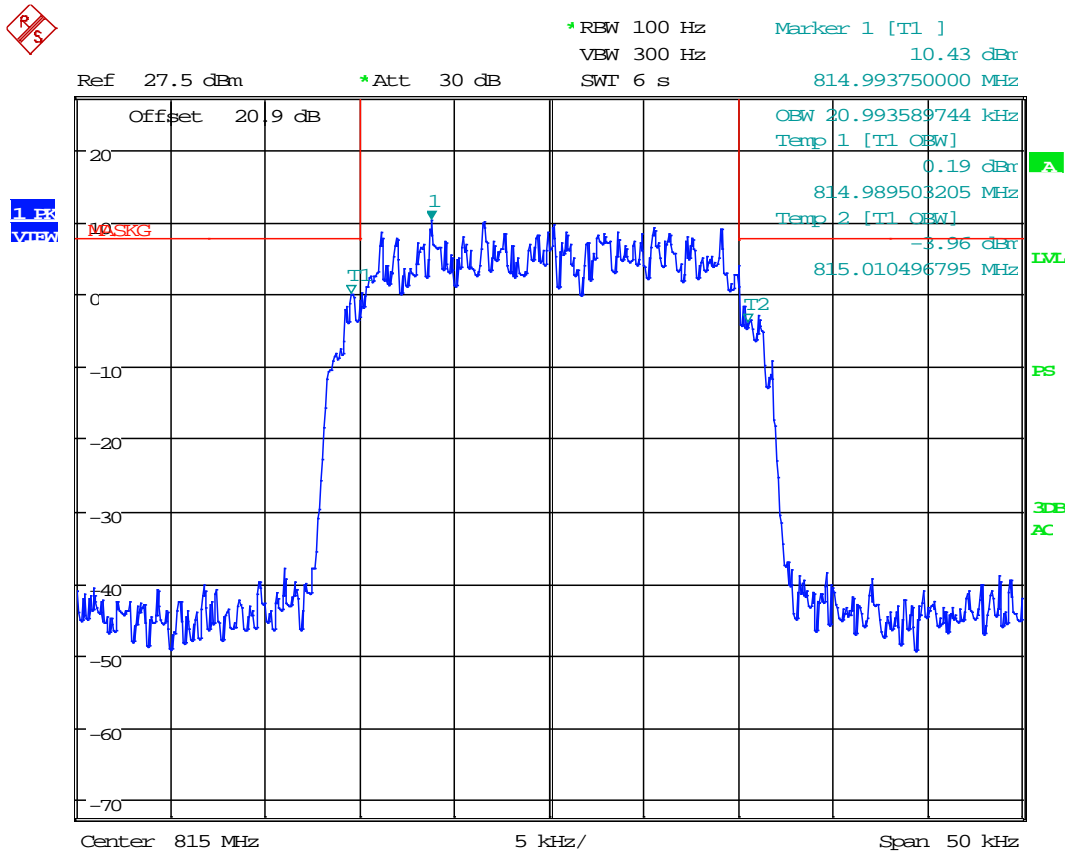
Test Data: Middle of Band Input vs Output – TETRA Test Signal



Date: 16.NOV.2017 10:37:48

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

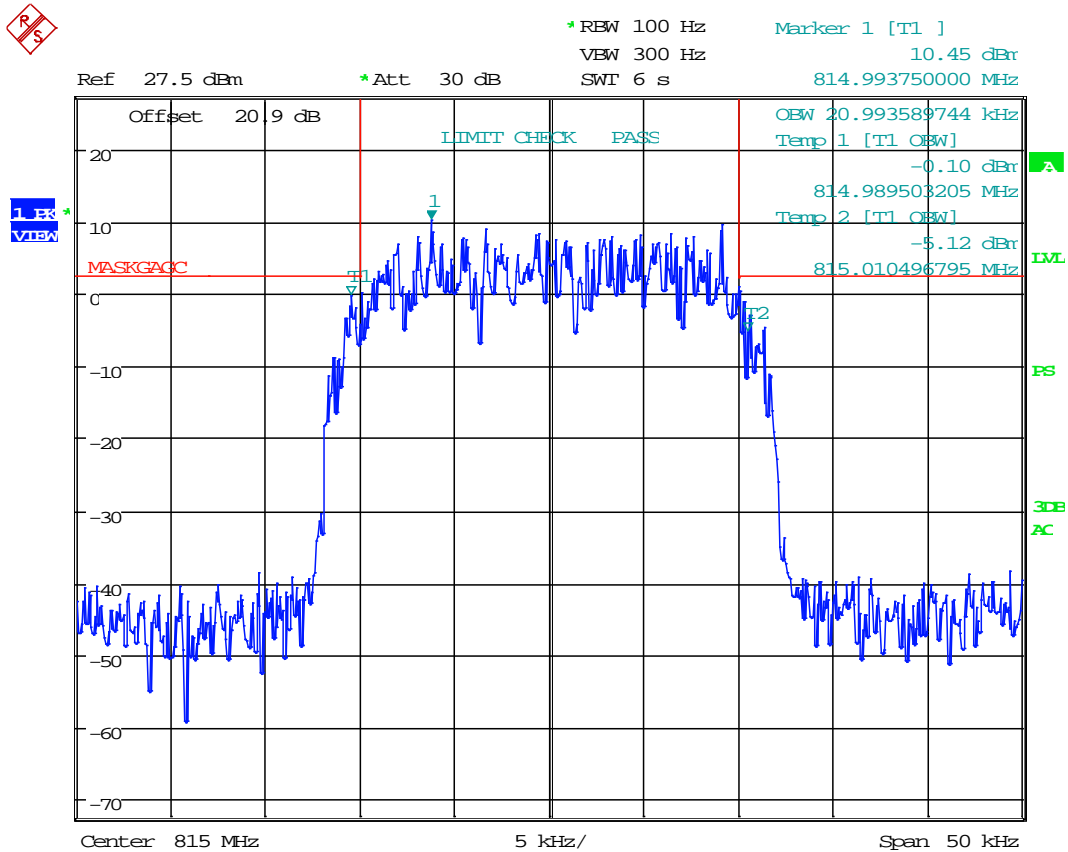
Test Data: Middle of Band Input vs Output – TETRA Below AGC Threshold



Date: 11.NOV.2017 14:09:54

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

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



Date: 11.NOV.2017 14:12:51

NOISE FIGURE §4.6

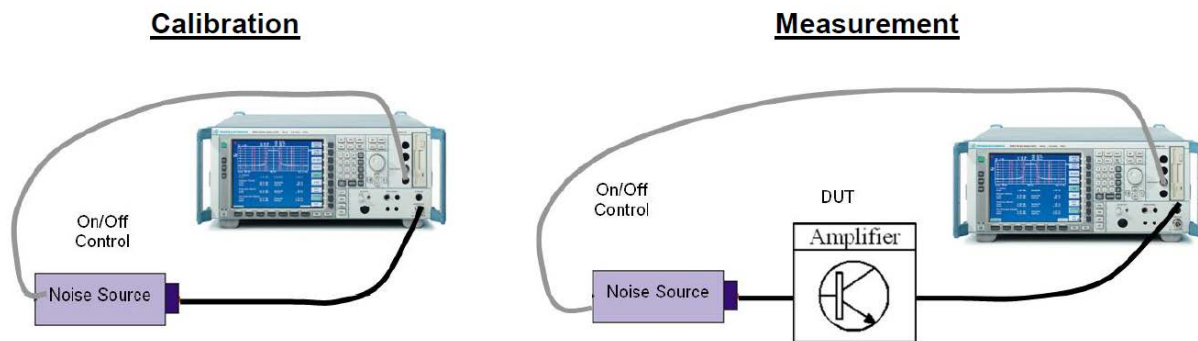
Rule Part No.: 47CFR90.219(e)(2)
KDB 935210-D05 v01r01 §4.6

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:



Test Data: Uplink 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	-61.81	659173.90	-60.88	816582.37	1.24	38468.76	21.26

Step 3 Noise Figure Calculation for EUT						
F_c	Gain	Gain	T_{EUT}	NF	Limit	Margin
MHz	Num	dB	EUT	dB	≤dB	dB
860	9666.270162	39.85	38468.58	21.26	9.00	-12.26

Results Meet Requirements

APPLICANT: FIPLEX COMMUNICATIONS INC.
FCC ID: P3TDHS00-M
REPORT #: 1783AUT17TestReportRev2

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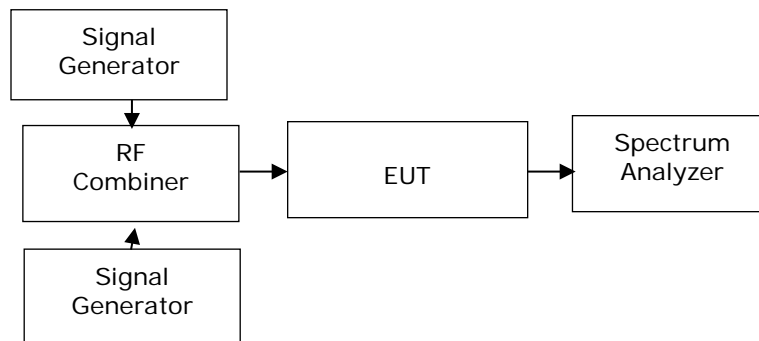
OUT OF BAND / OUT OF BLOCK EMISSIONS (intermodulation) §4.7

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

Requirements: -13 dBm

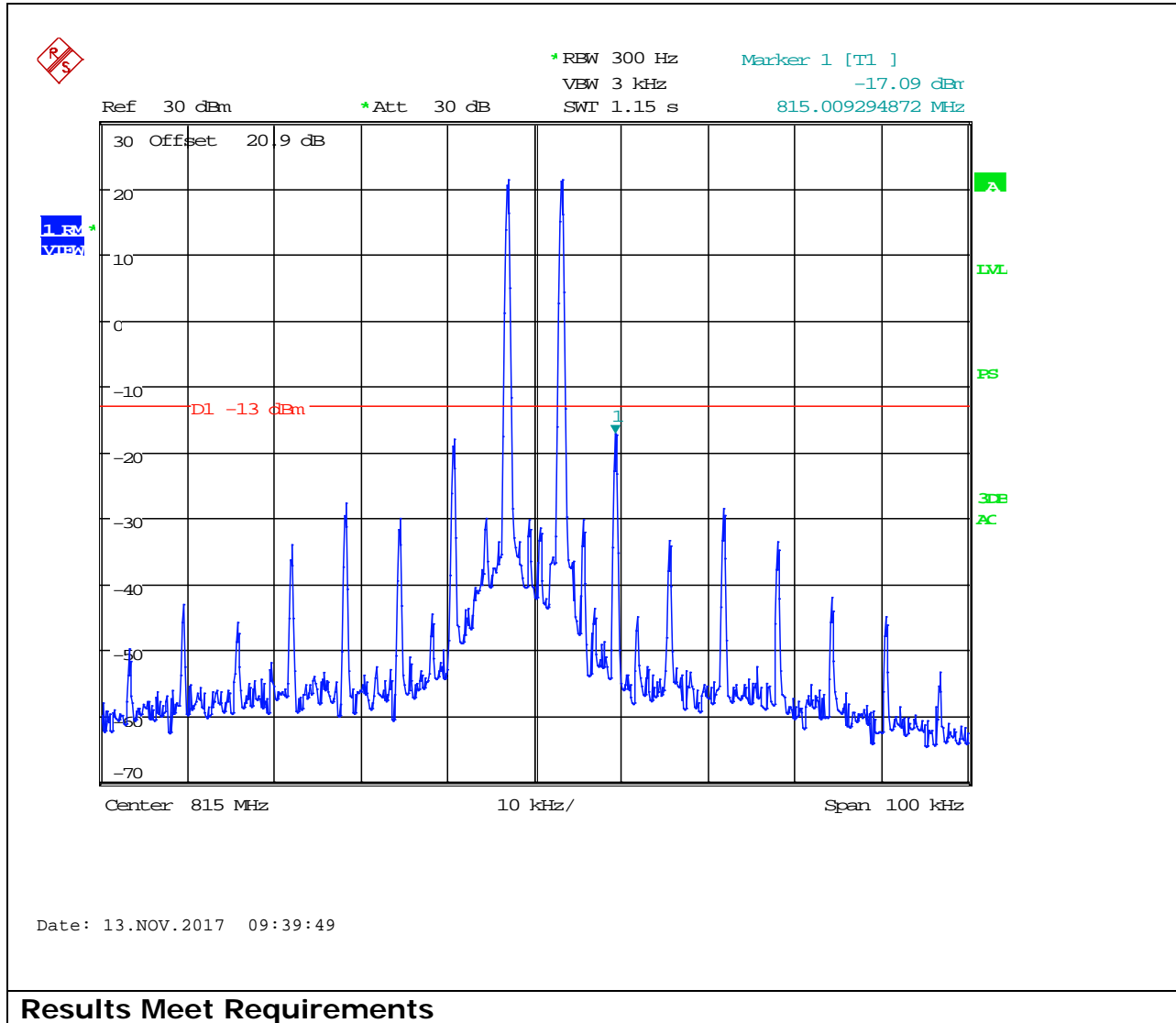
Procedure: KDB935210 Measurement Guidance for Industrial Boosters
§ 4.7.1 General
§ 4.7.2 Out of Band/ Out of block emissions conducted measurements

Setup Diagram:



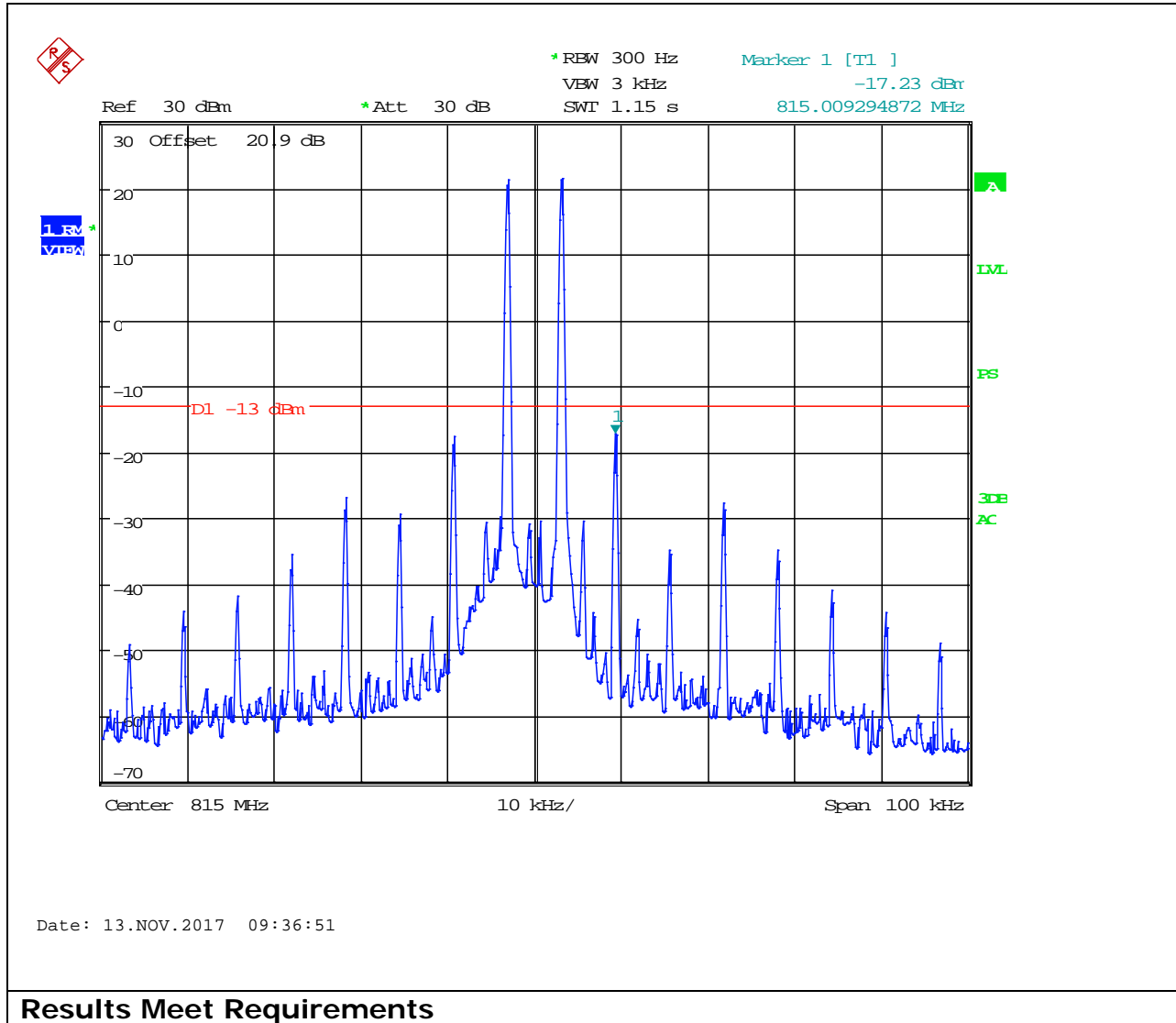
Out-of-band/out-of-block Emissions(including intermodulation) §4.7.2

Test Data: 6.25 kHz Intermodulation without AGC



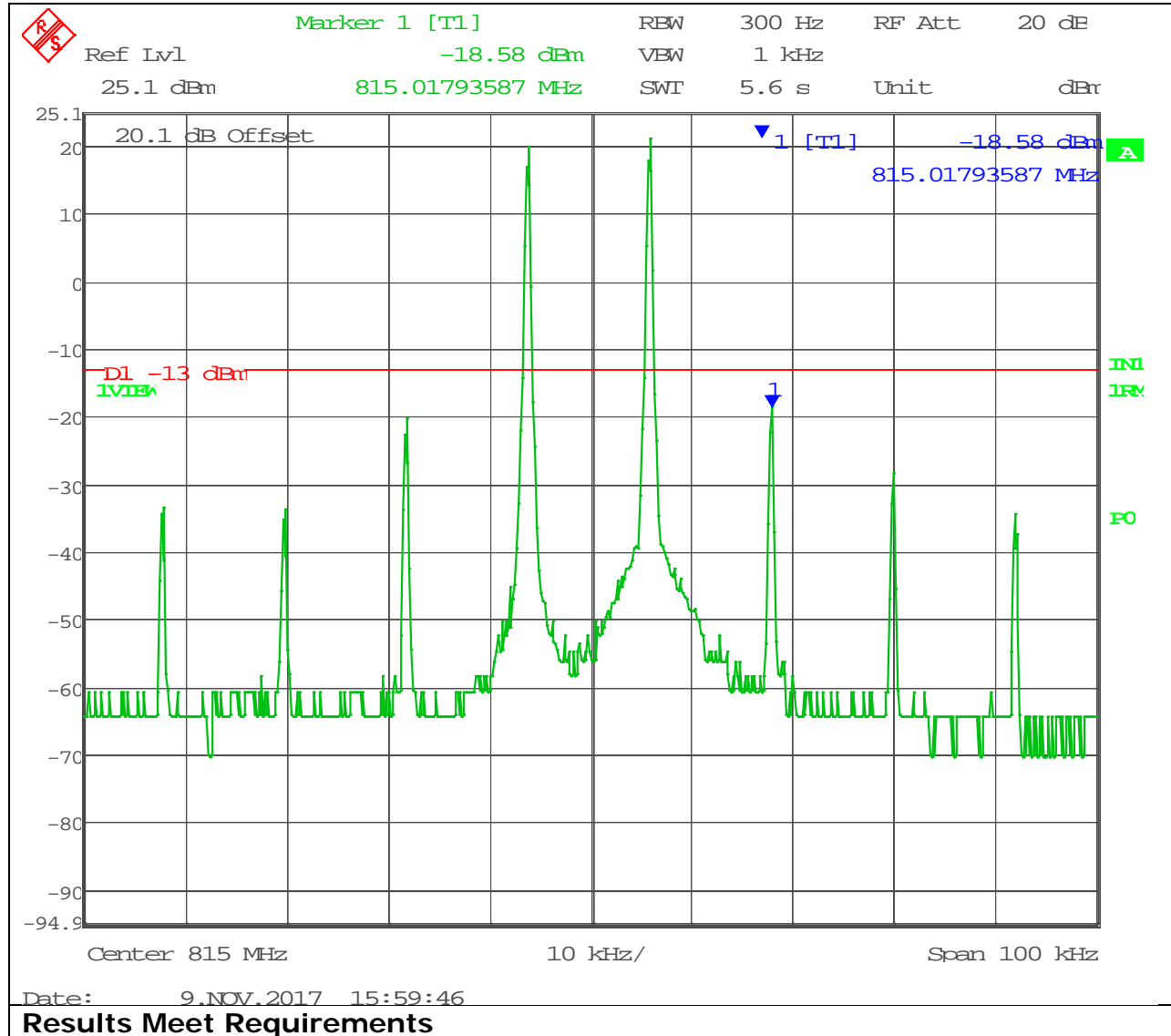
Out-of-band/out-of-block Emissions(including intermodulation) §4.7.2

Test Data: 6.25 kHz Intermodulation with AGC



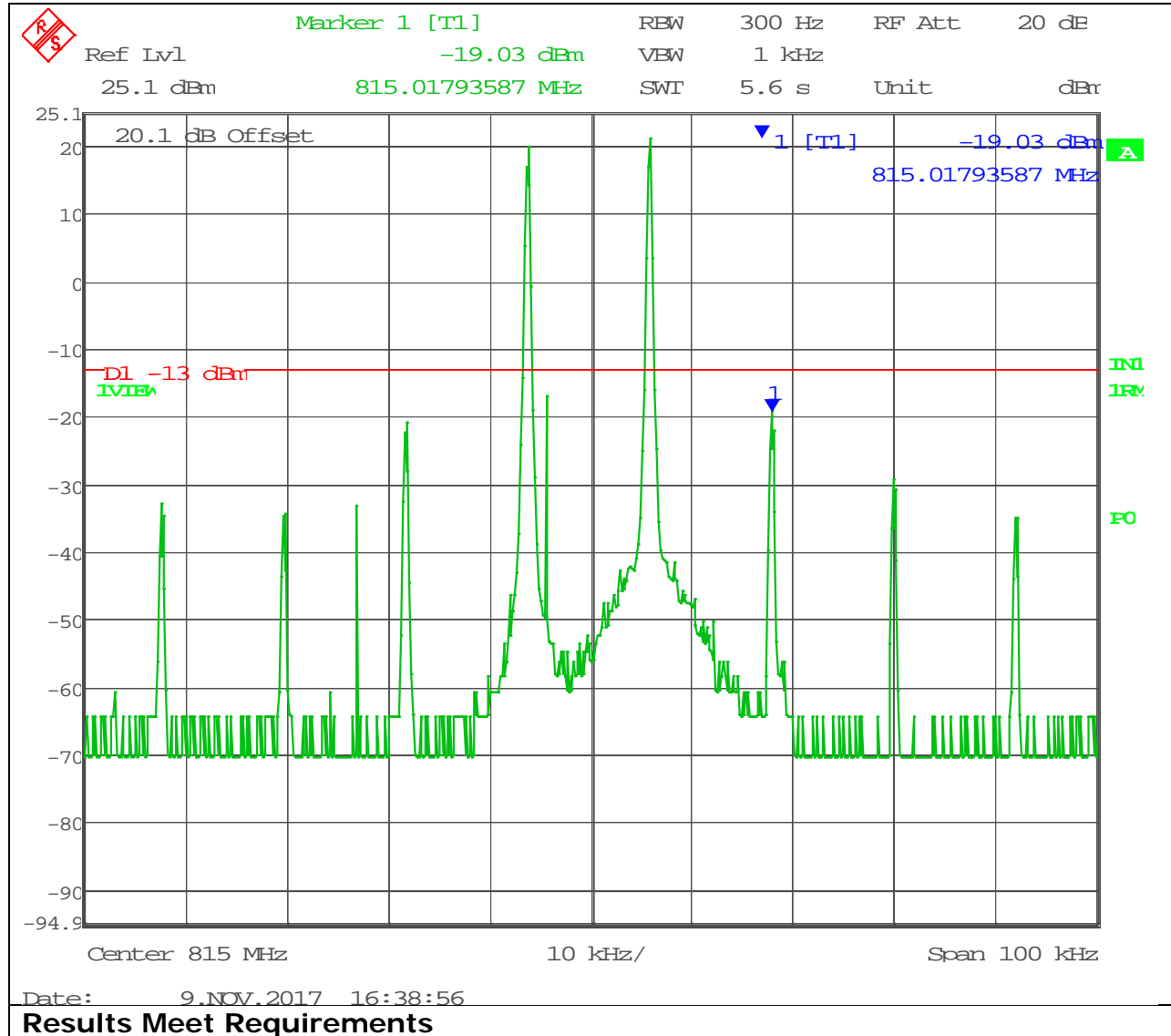
Out-of-band/out-of-block Emissions(including intermodulation) §4.7.2

Test Data: 12.5 kHz Intermodulation without AGC



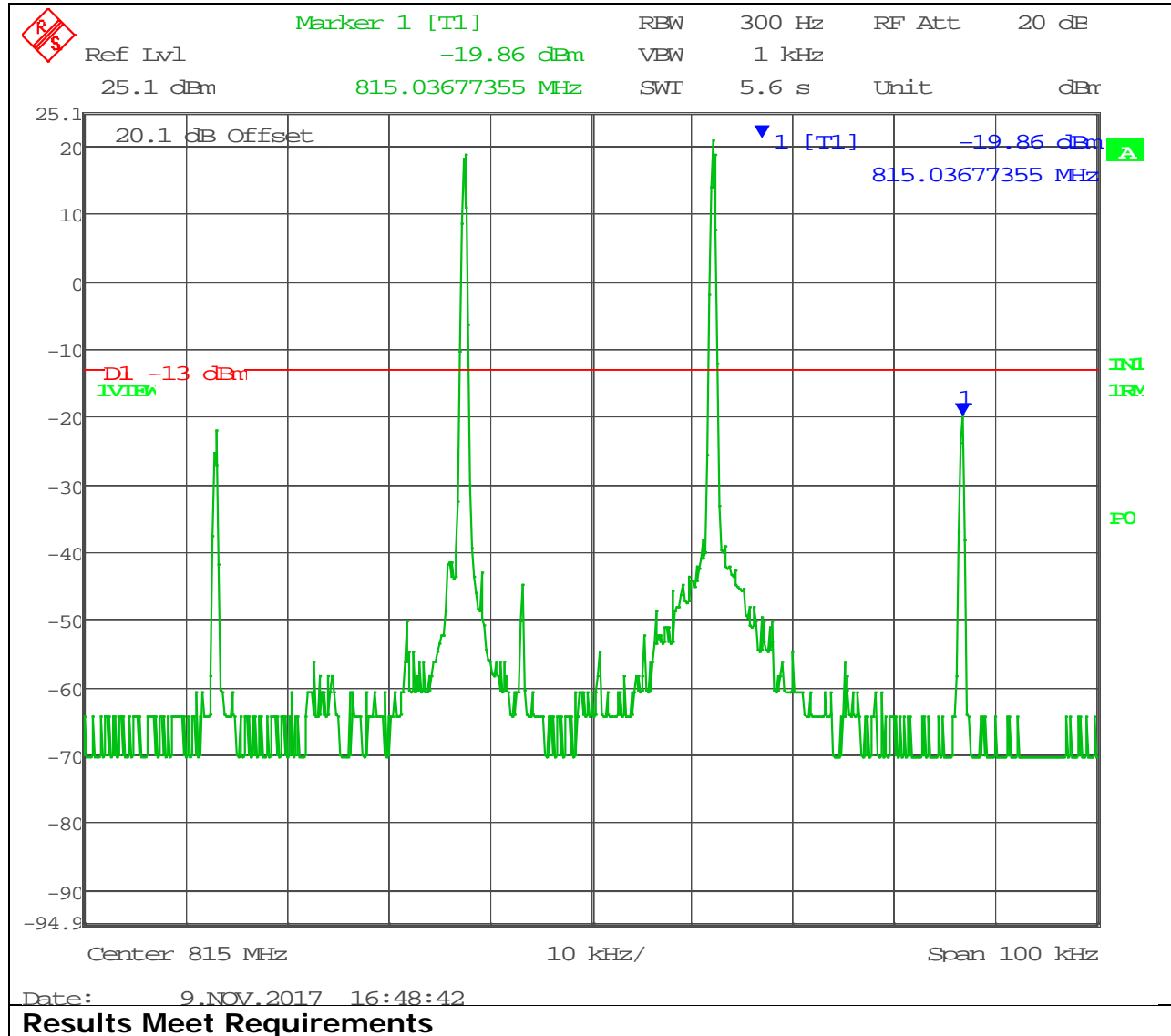
Out-of-band/out-of-block Emissions(including intermodulation) §4.7.2

Test Data: 12.5 kHz Intermodulation with AGC



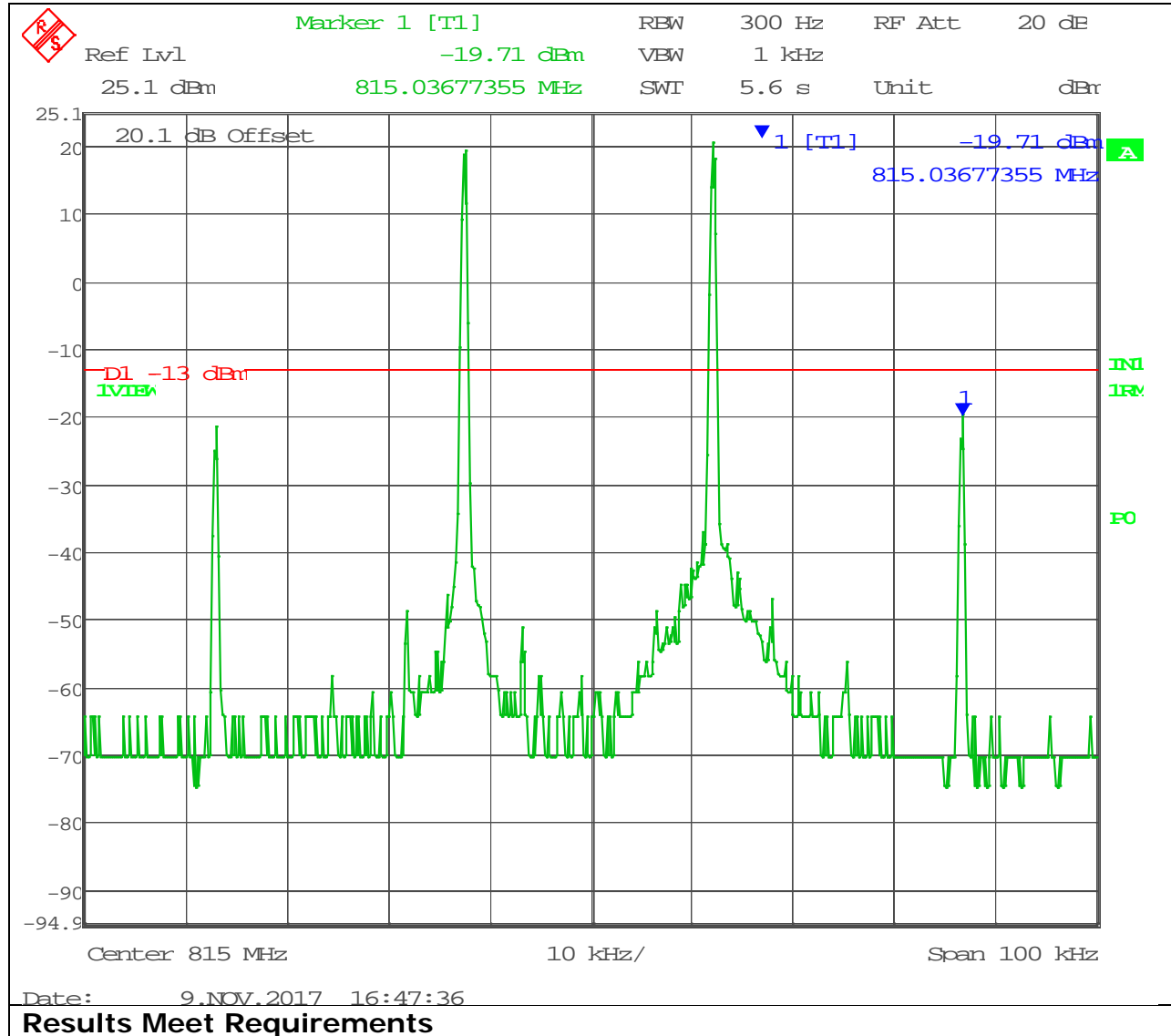
Out-of-band/out-of-block Emissions(including intermodulation) §4.7.2

Test Data: 25 kHz Intermodulation without AGC



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

Test Data: 25 kHz Intermodulation with AGC



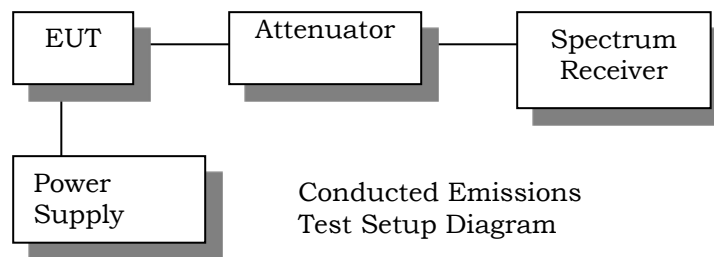
ANTENNA CONDUCTED EMISSIONS §4.7

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

Requirements: -13 dBm in any 100 kHz bandwidth

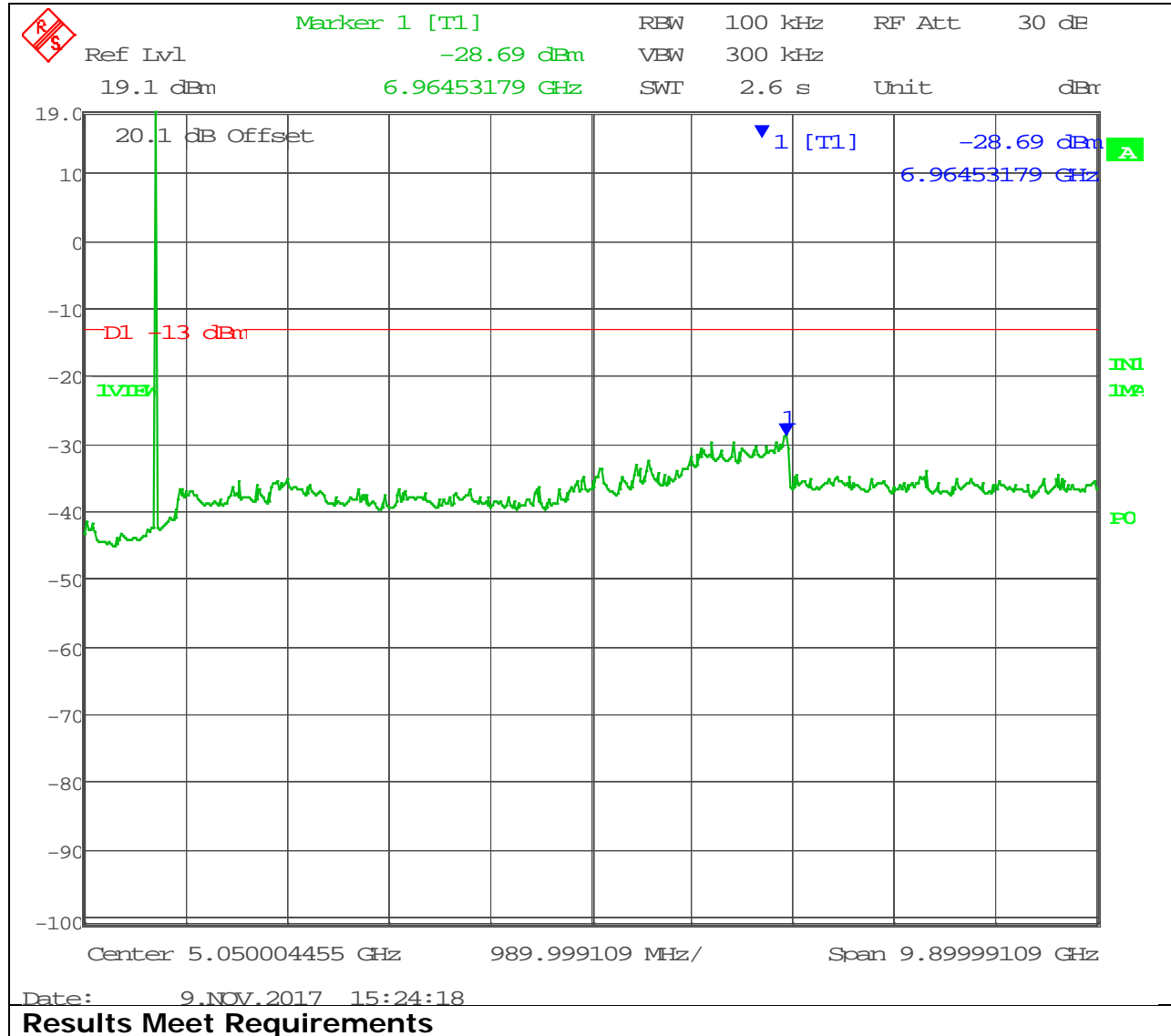
Procedure: KDB935210 Measurement Guidance for Industrial Boosters
§ 4.7.1 General
§ 4.7.3 EUT Spurious emissions conducted measurements

Test Setup Diagram:



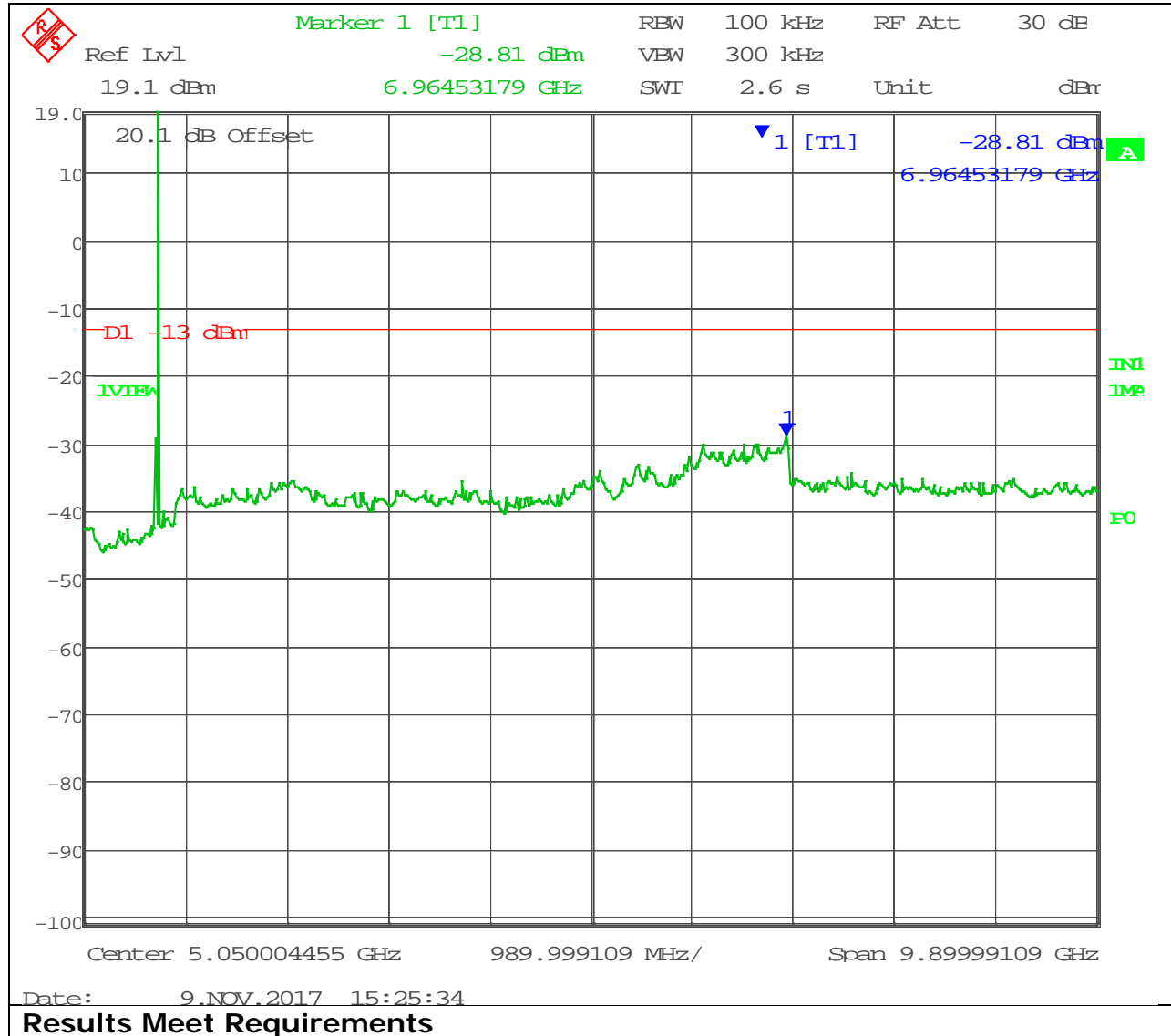
ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: Low End of Band



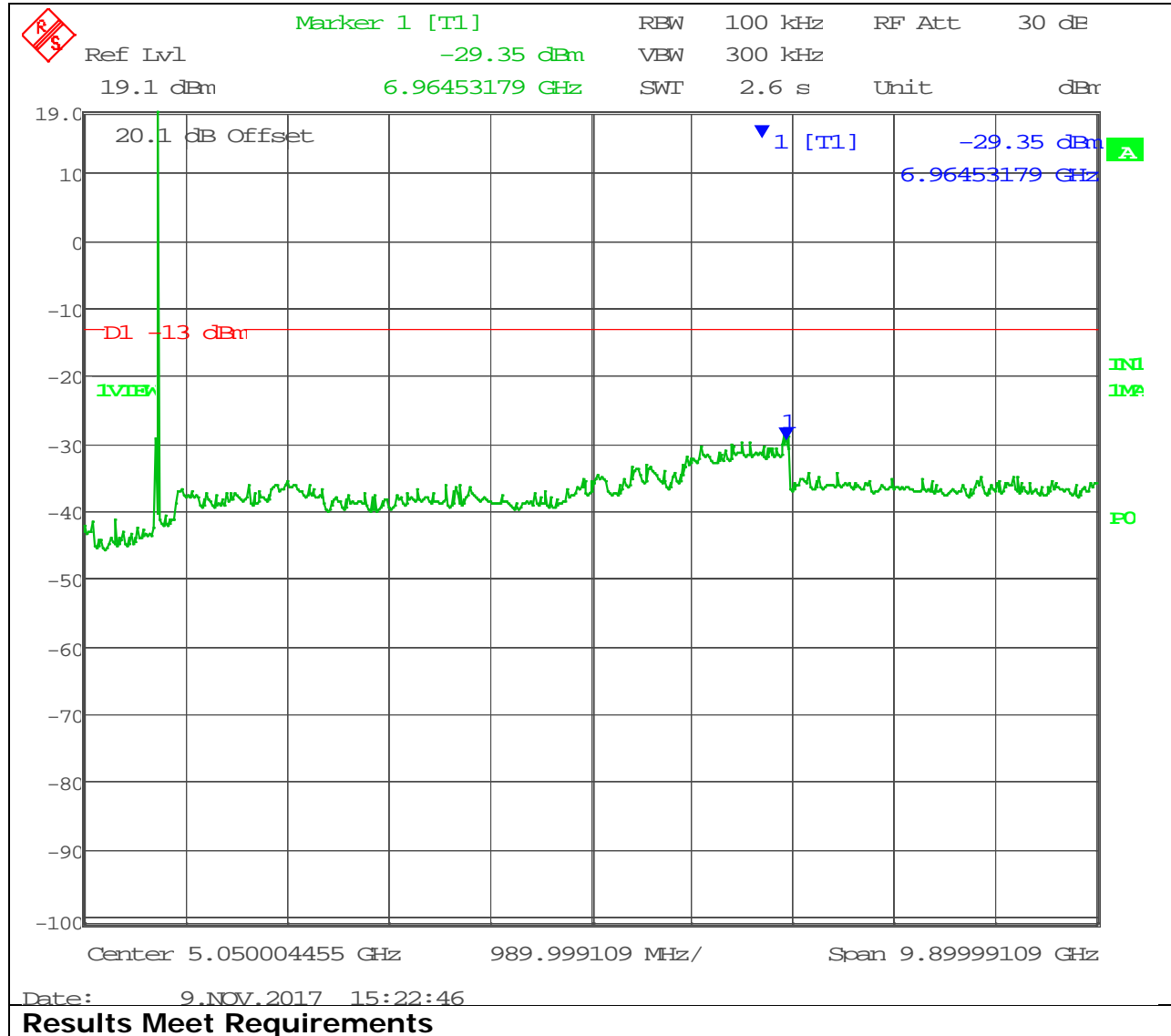
ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: Middle of Band



ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: High End of Band





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)
8150.000	H	-49.79	-13.00	36.79
7335.000	V	-49.87	-13.00	36.87
479.300	V	-49.91	-13.00	36.91
7335.000	H	-50.03	-13.00	37.03
8150.000	V	-50.28	-13.00	37.28
6520.000	H	-51.26	-13.00	38.26

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: Within 300 Hz and 6kHz of audio freq.	±1.88%	
Within 6kHz and 25kHz of audio Freq.	±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