



Appendix A1: Transmitter Output Power

1 Result Table

1.1 Channel Power, Total

NOTE 1: If applicable, the EIRP [W] = $10^{((\text{Channel Power [dBm]} + \text{Antenna Gain [dBi]})/10 - 3)}$, and the ERP [W] = EIRP [W] / 1.64.

NOTE 2: When the EUT is put into service, the practical maximum antenna gain may exceed the value as described below, and if exceed, the combination of the practical output power and the practical antenna gain should NOT exceed the required ERP/EIRP limit.

EUT Conf.	Channel Power [dBm]@Ant1	Channel Power [dBm] @Ant2	Total Channel Power [W]	Antenna Gain [dBi]	EIRP [W]	ERP [W]	Verdict
5M_B	17.25	17.25	0.11	0	0.11	0.06	Pass
5M_M	17.28	17.28	0.11	0	0.11	0.07	Pass
5M_T	17.35	17.35	0.11	0	0.11	0.07	Pass
10M_B	17.29	17.29	0.11	0	0.11	0.07	Pass
10M_M	17.25	17.25	0.11	0	0.11	0.06	Pass
10M_T	17.14	17.14	0.10	0	0.10	0.06	Pass
1U_B	17.34	---	0.05	0	0.05	0.03	Pass
1U_M	17.10	---	0.05	0	0.05	0.03	Pass
1U_T	17.48	---	0.06	0	0.06	0.03	Pass
2U_B	14.20, 13.81	---	0.05	0	0.05	0.03	Pass
2U_M	13.96, 13.94	---	0.05	0	0.05	0.03	Pass
2U_T	14.46, 13.77	---	0.05	0	0.05	0.03	Pass

1.2 Power Spectral Density

NOTE 1: If applicable, the EIRP [W/MHz] = $10^{((\text{Power Spectral Density [dBm/MHz]} + \text{Antenna Gain [dBi]})/10 - 3)}$, and the ERP [W/MHz] = EIRP [W/MHz] / 1.64.

NOTE 2: When the EUT is put into service, the practical maximum antenna gain may exceed the value as described below, and if exceed, the combination of the practical output power and the practical antenna gain should NOT exceed the required EIRP limit.

(Not applicable)

1.3 Peak-to-Average Ratio

EUT Conf.	Peak-to-Average Ratio [dB]	Verdict
5M_B	7.60	Pass
5M_M	7.60	Pass
5M_T	7.63	Pass
10M_B	7.60	Pass



EUT Conf.	Peak-to-Average Ratio [dB]	Verdict
10M_M	7.60	Pass
10M_T	7.60	Pass
1U_B	7.63	Pass
1U_M	7.63	Pass
1U_T	7.66	Pass



2 Test Plot

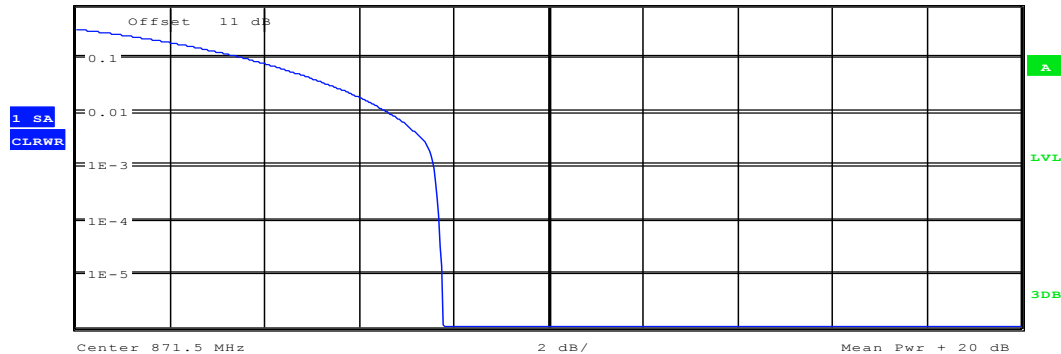
NOTE: Only the test plots for the measurements of Spectral Density and Peak-to-Average Ratio are supplied.

2.1 Power Spectral Density

(Not applicable)

2.2 Peak-to-Average Ratio

2.2.1 5M_B



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

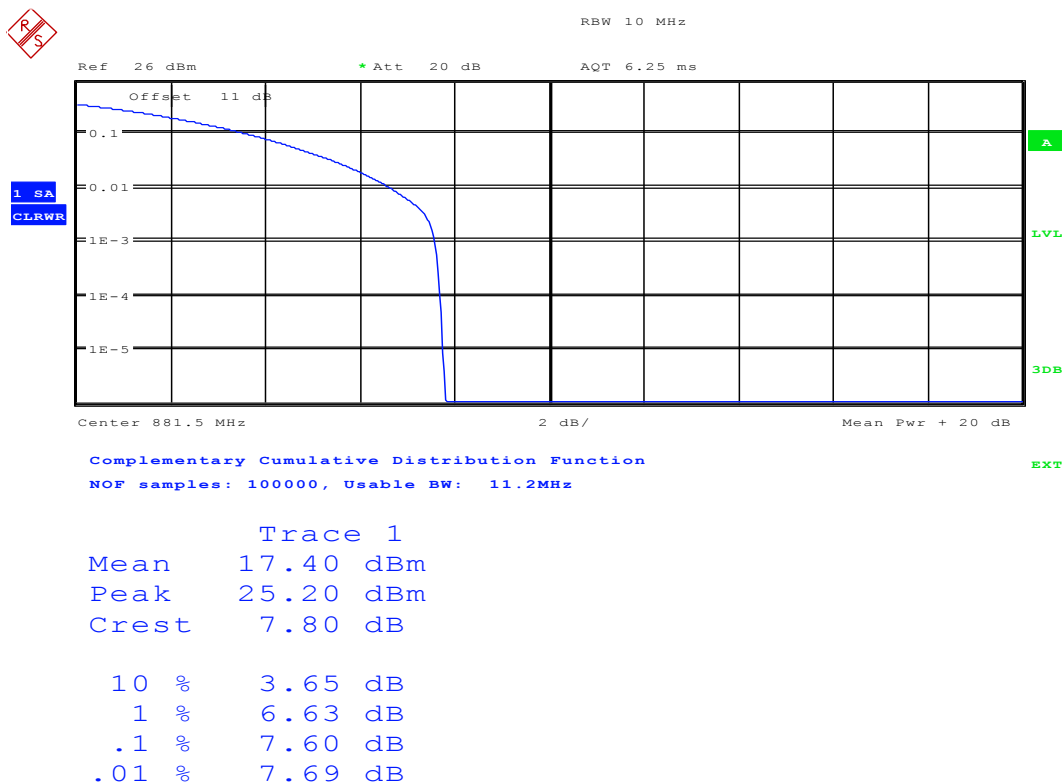
EXT

Trace 1
Mean 17.38 dBm
Peak 25.14 dBm
Crest 7.77 dB

10 % 3.69 dB
1 % 6.63 dB
.1 % 7.60 dB
.01 % 7.69 dB

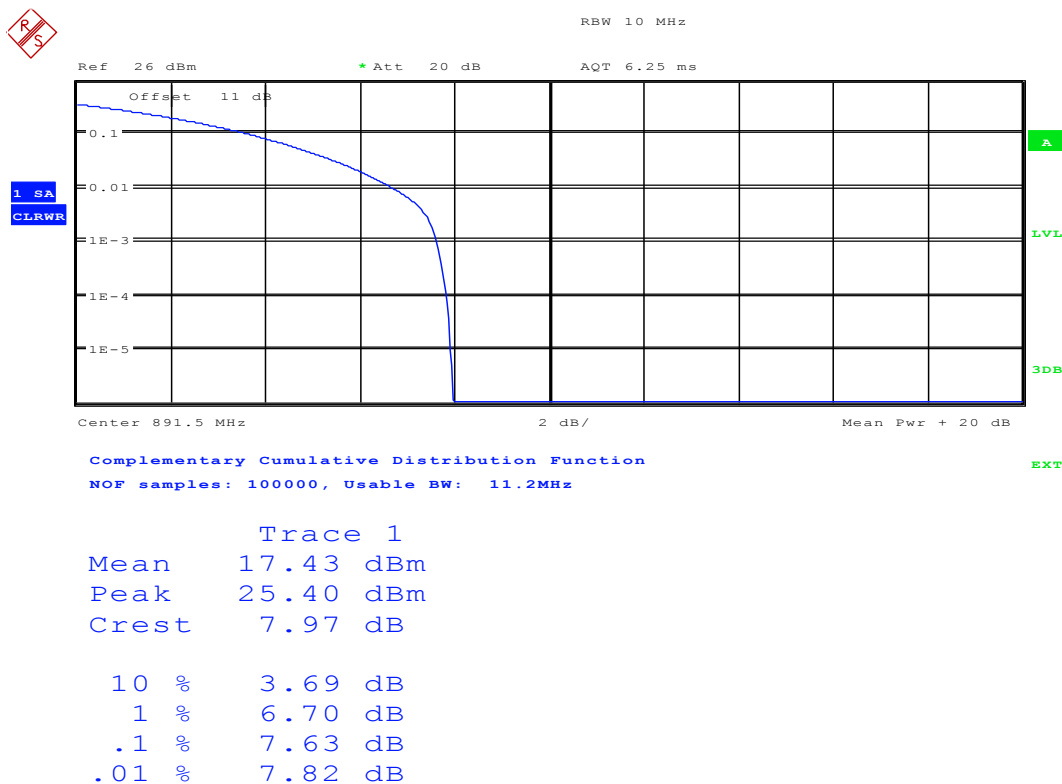
Date: 20.NOV.2015 08:52:56

2.2.2 5M_M



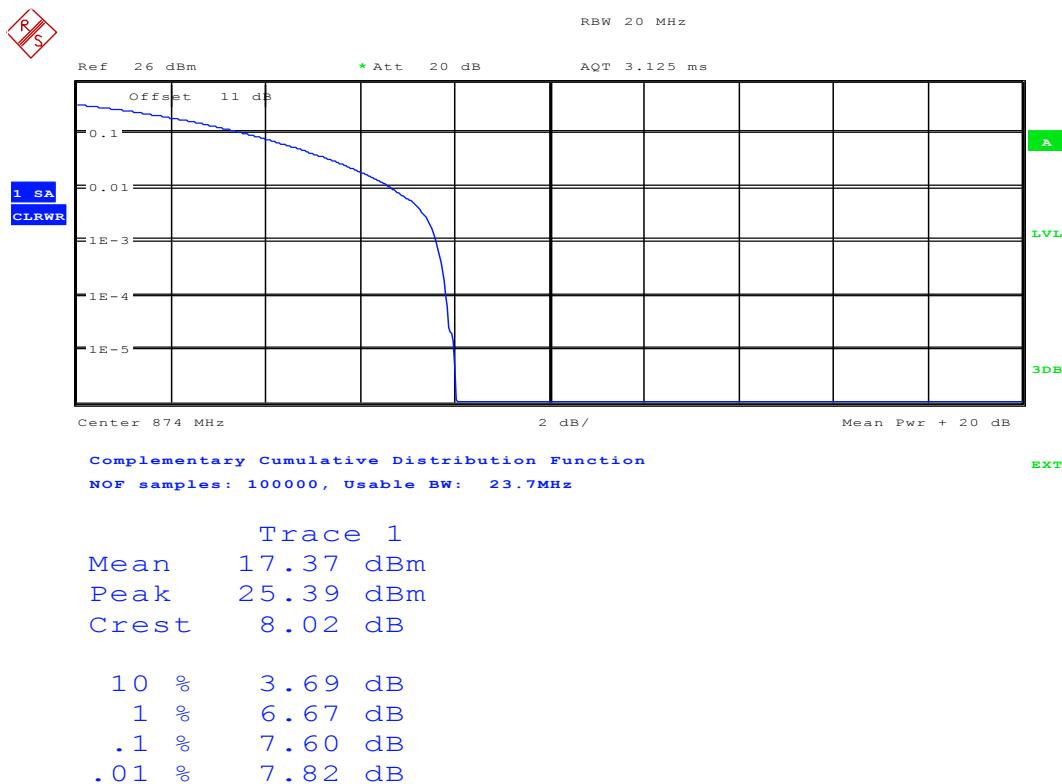
Date: 20.NOV.2015 08:54:17

2.2.3 5M_T



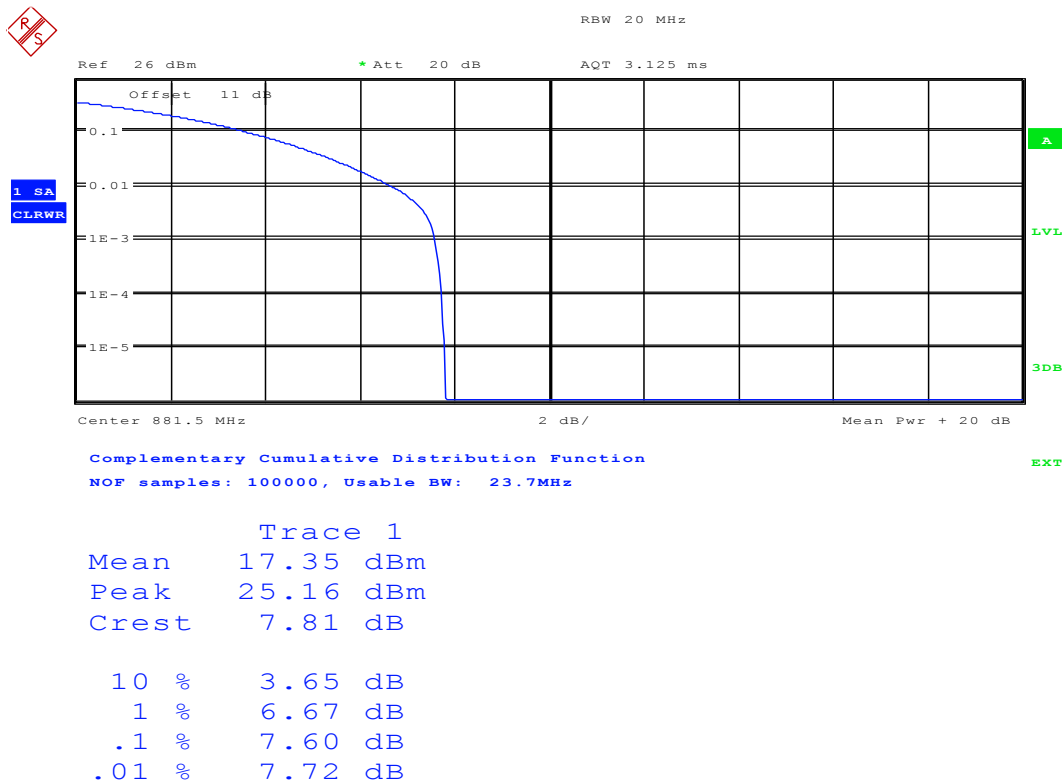
Date: 20.NOV.2015 08:56:17

2.2.4 10M_B



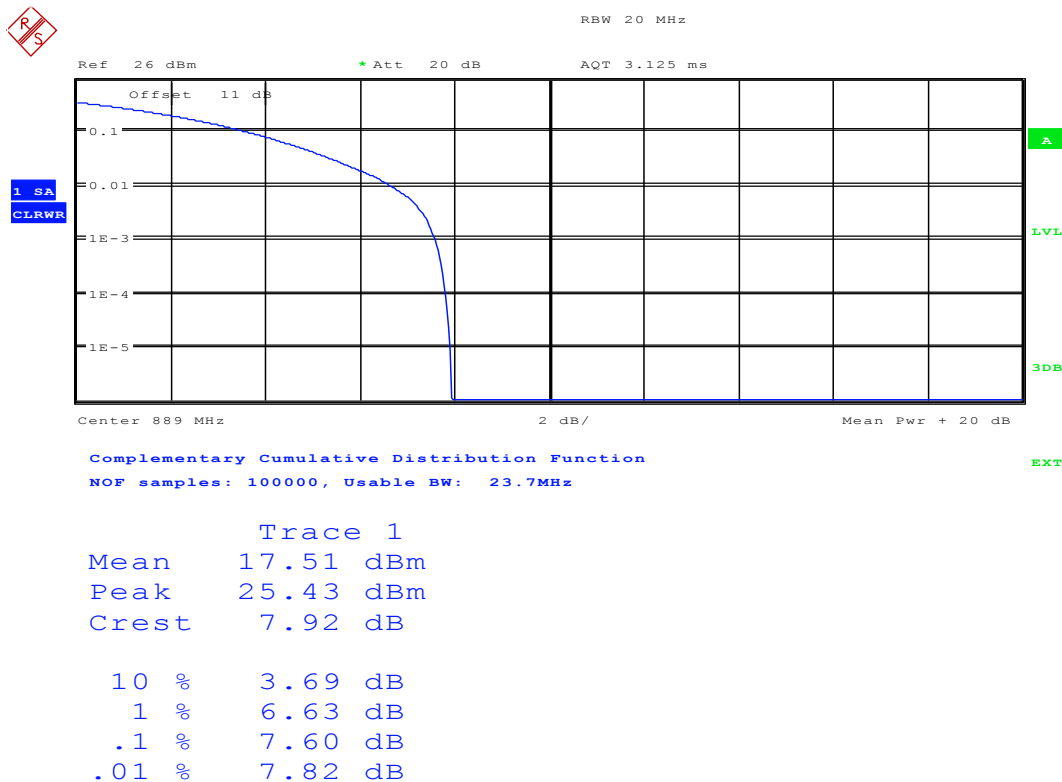
Date: 20.NOV.2015 09:00:09

2.2.5 10M_M



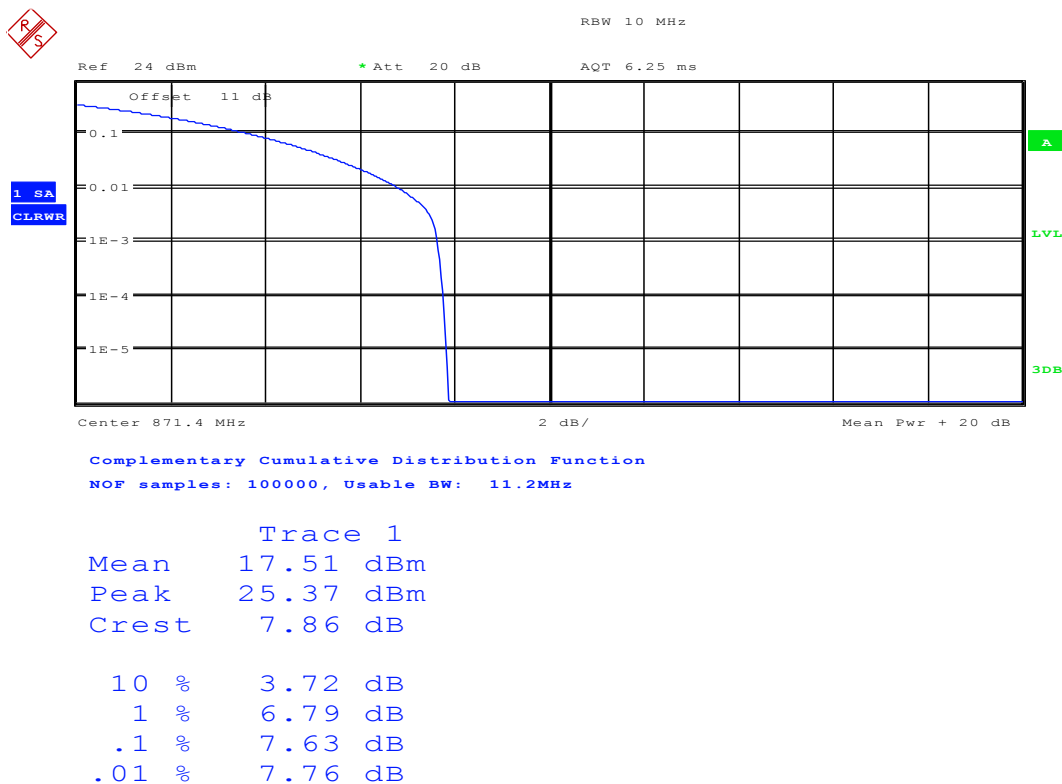
Date: 20.NOV.2015 09:01:04

2.2.6 10M_T



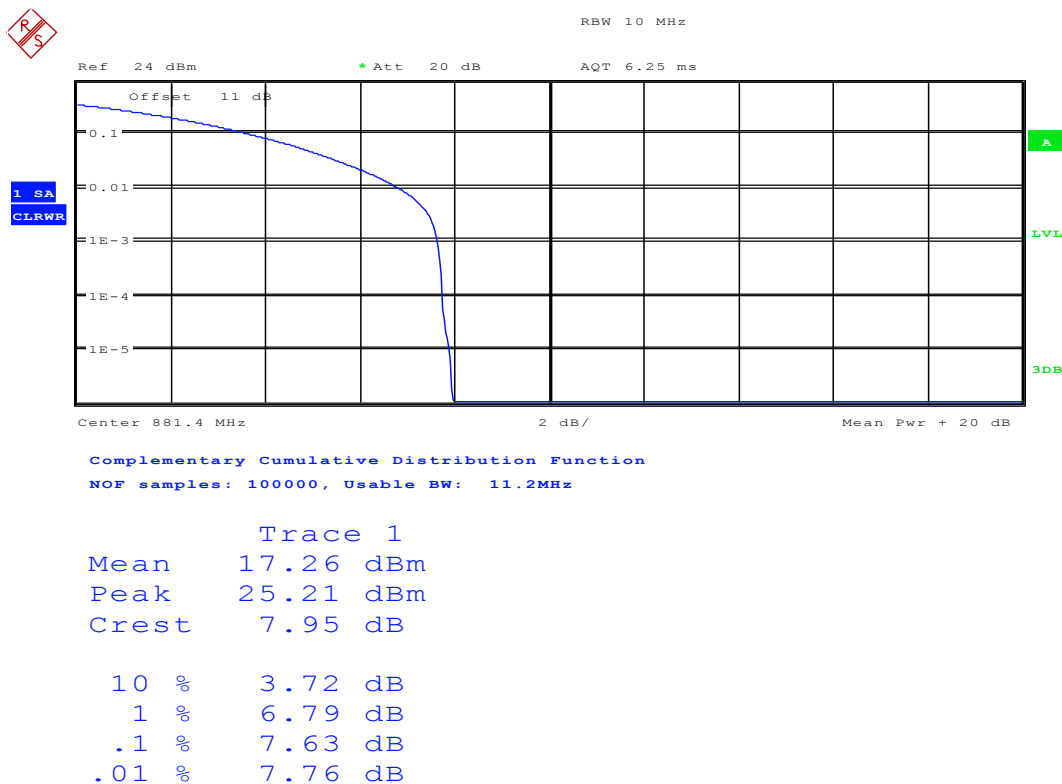
Date: 20.NOV.2015 09:01:50

2.2.7 1U_B



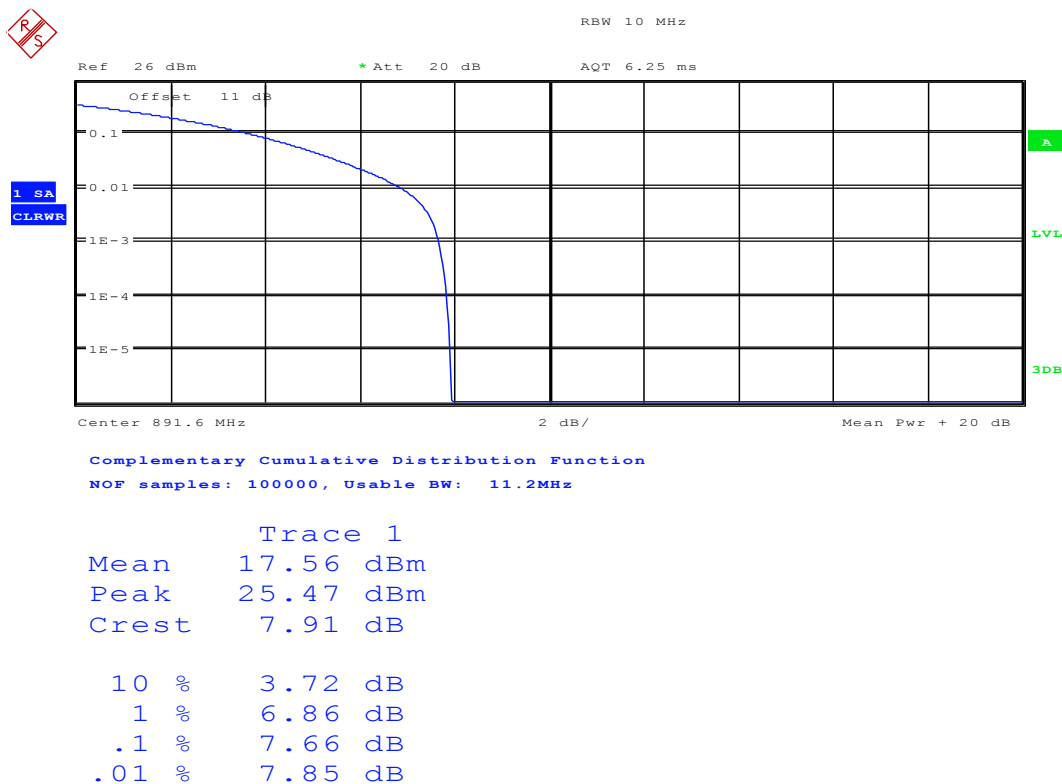
Date: 20.NOV.2015 08:13:58

2.2.8 1U_M



Date: 20.NOV.2015 08:15:06

2.2.9 1U_T



Date: 20.NOV.2015 08:16:15



Appendix B1: Bandwidth

1 Result Table

1.1 Occupied Bandwidth

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
5M_B	4.500	---
5M_M	4.490	---
5M_T	4.490	---
10M_B	8.925	---
10M_M	8.940	---
10M_T	8.925	---
1U_B	4.151	---
1U_M	4.151	---
1U_T	4.151	---

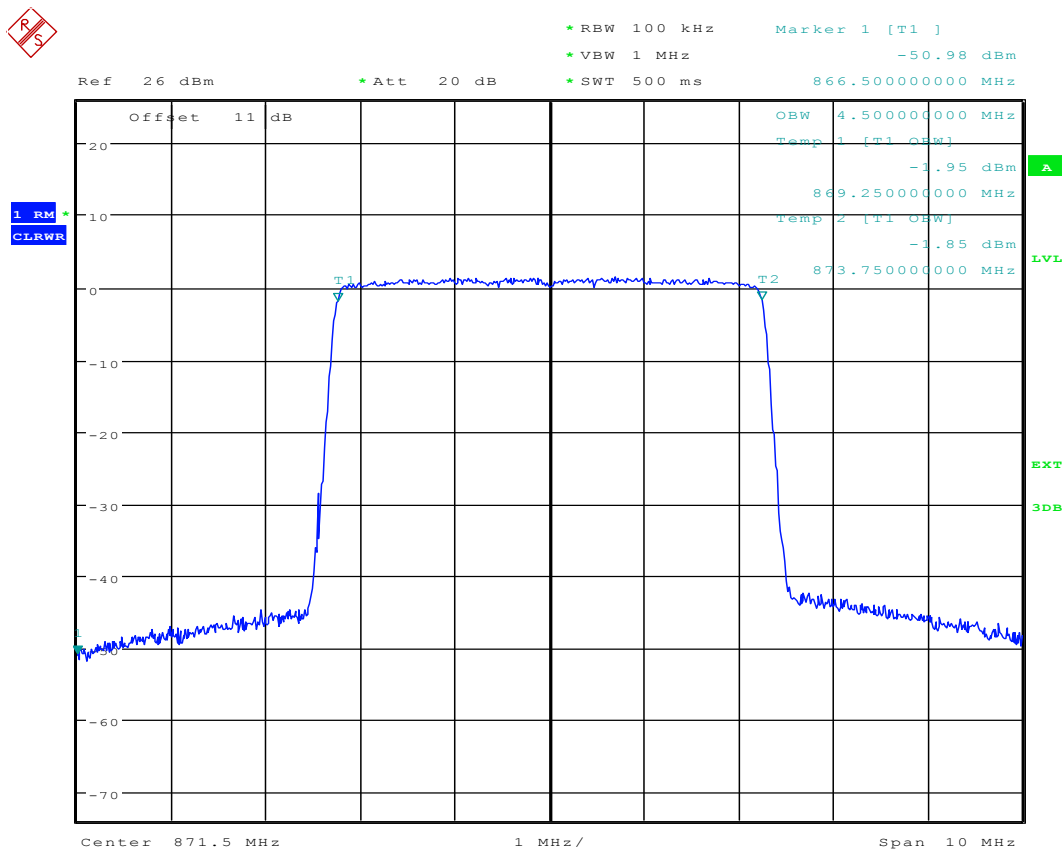
1.2 Emission Bandwidth

EUT Conf.	Emission Bandwidth, -26 dBc [MHz]	Emission Bandwidth, -20 dBc [MHz]	Verdict
5M_B	4.784	---	---
5M_M	4.809	---	---
5M_T	4.787	---	---
10M_B	9.355	---	---
10M_M	9.334	---	---
10M_T	9.339	---	---
1U_B	4.712	---	---
1U_M	4.712	---	---
1U_T	4.712	---	---

2 Test Plot

2.1 Occupied Bandwidth

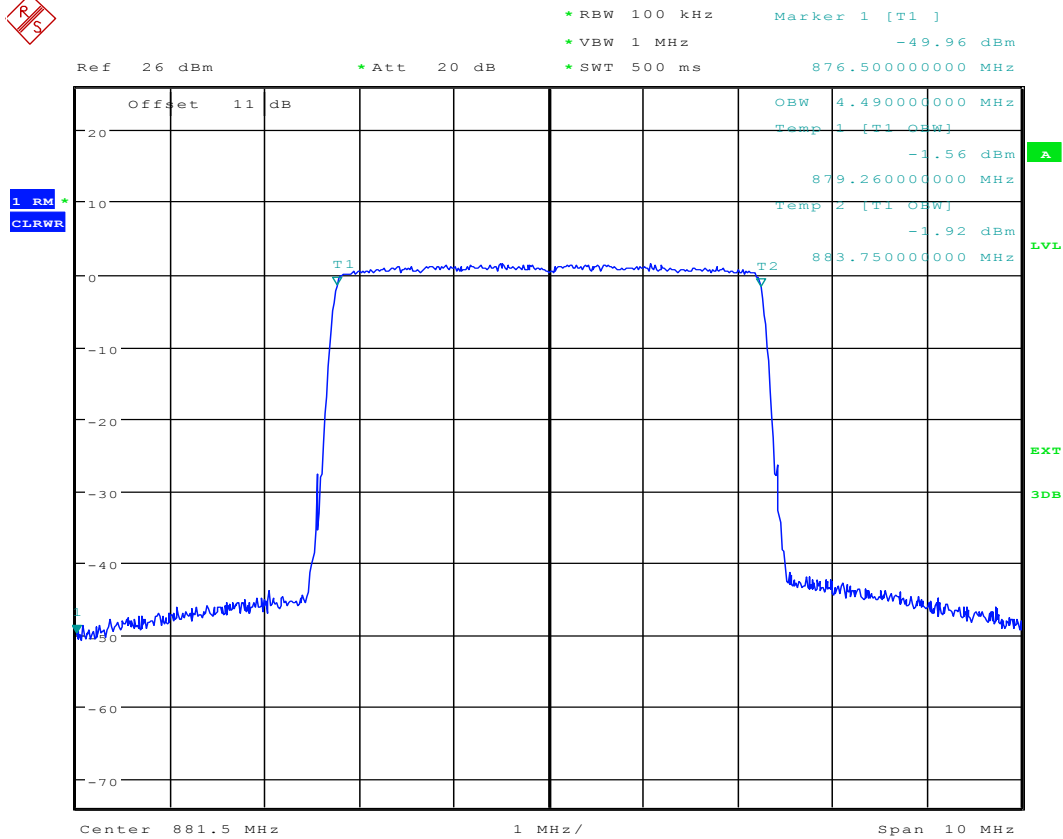
2.1.1 5M_B



Date: 18.NOV.2015 15:36:22

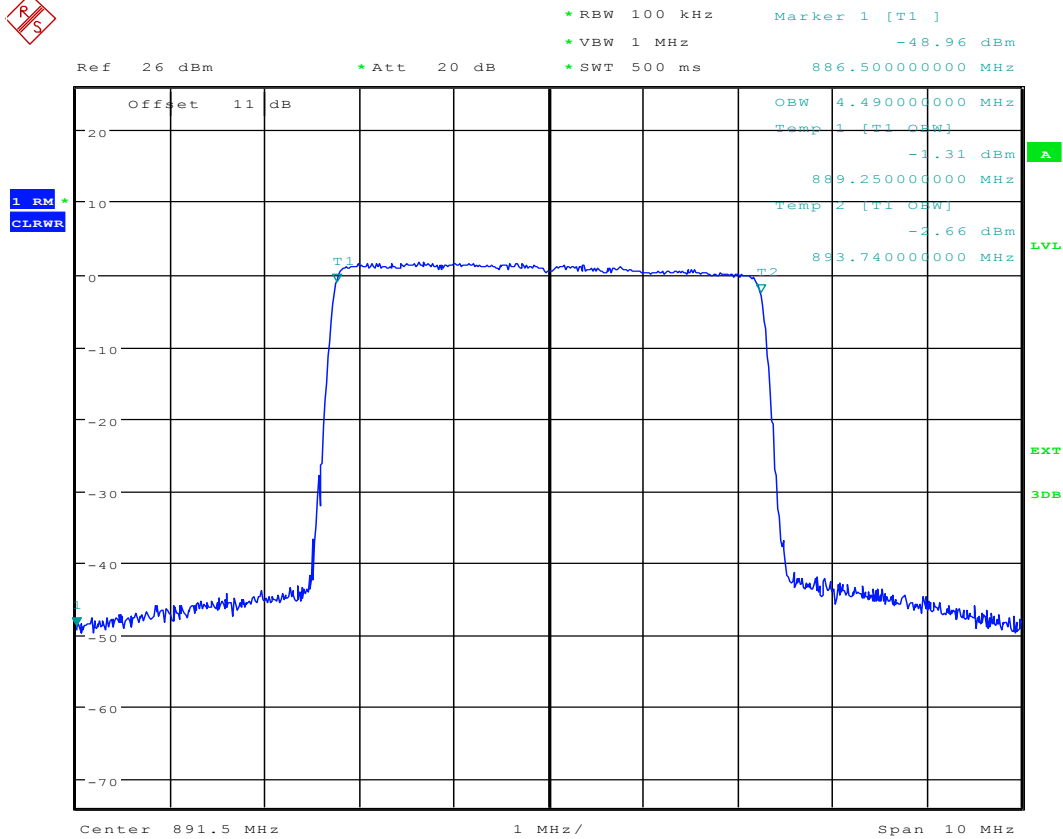


2.1.2 5M_M



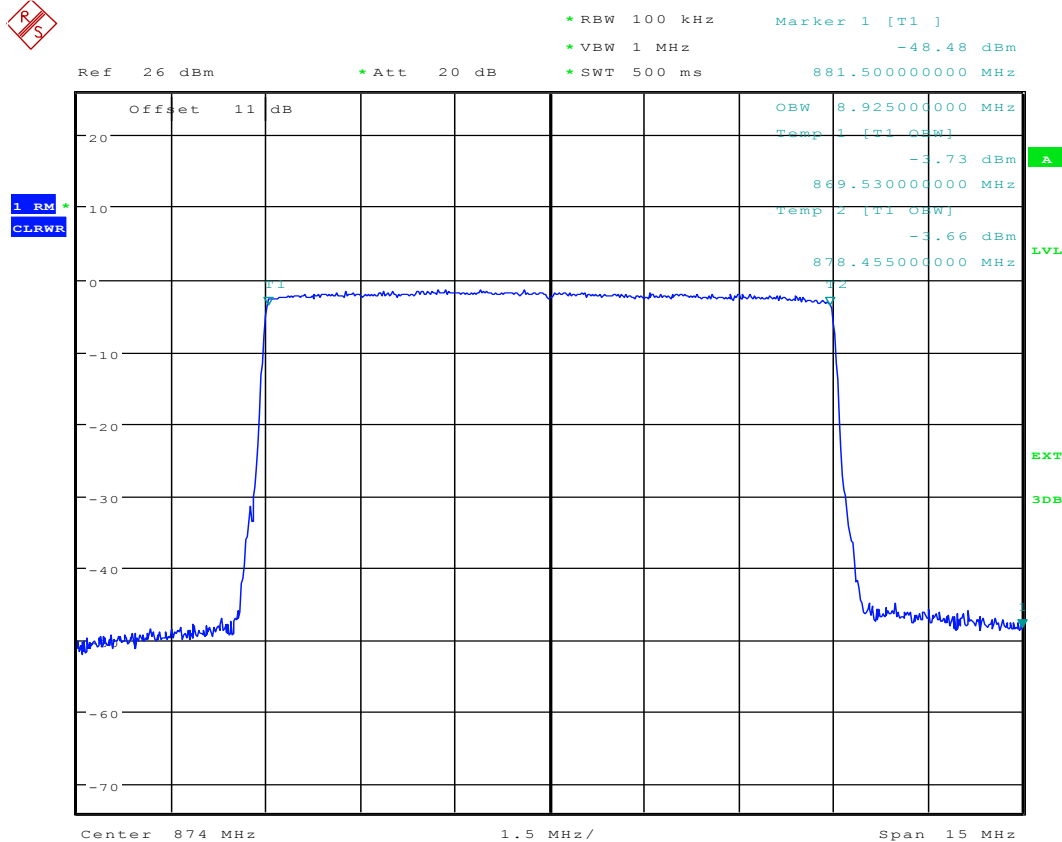
Date: 18.NOV.2015 15:37:09

2.1.3 5M_T



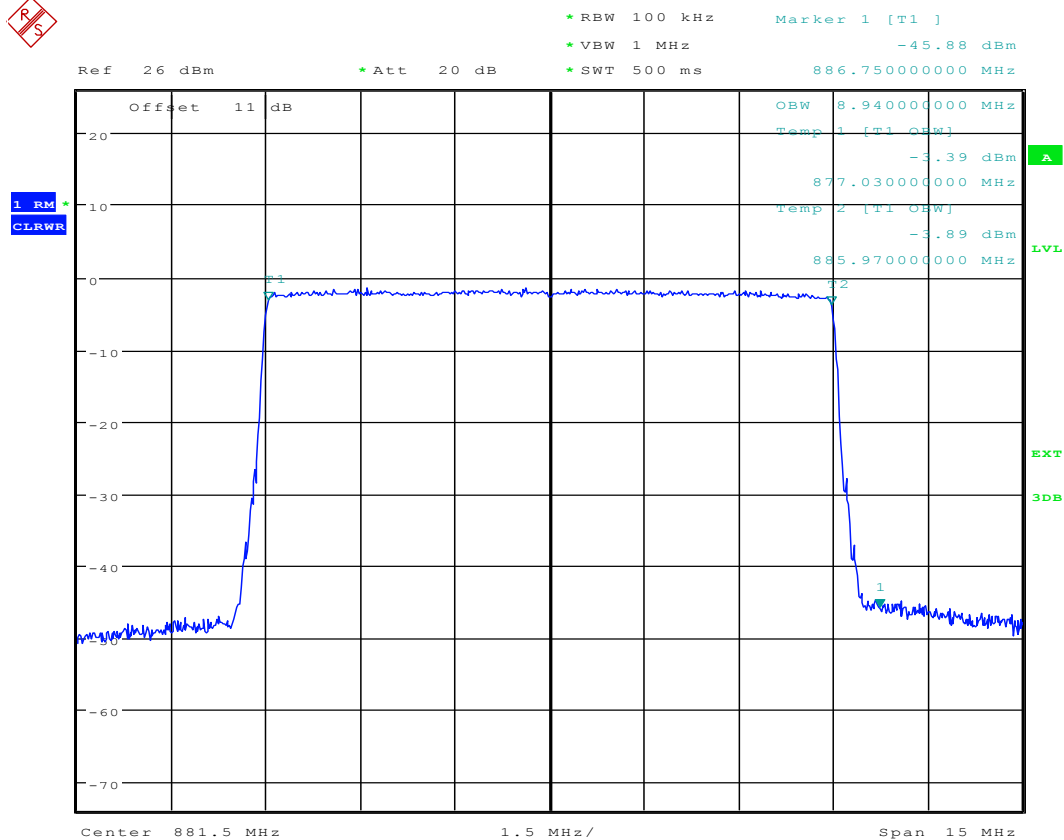
Date: 18.NOV.2015 15:37:52

2.1.4 10M_B



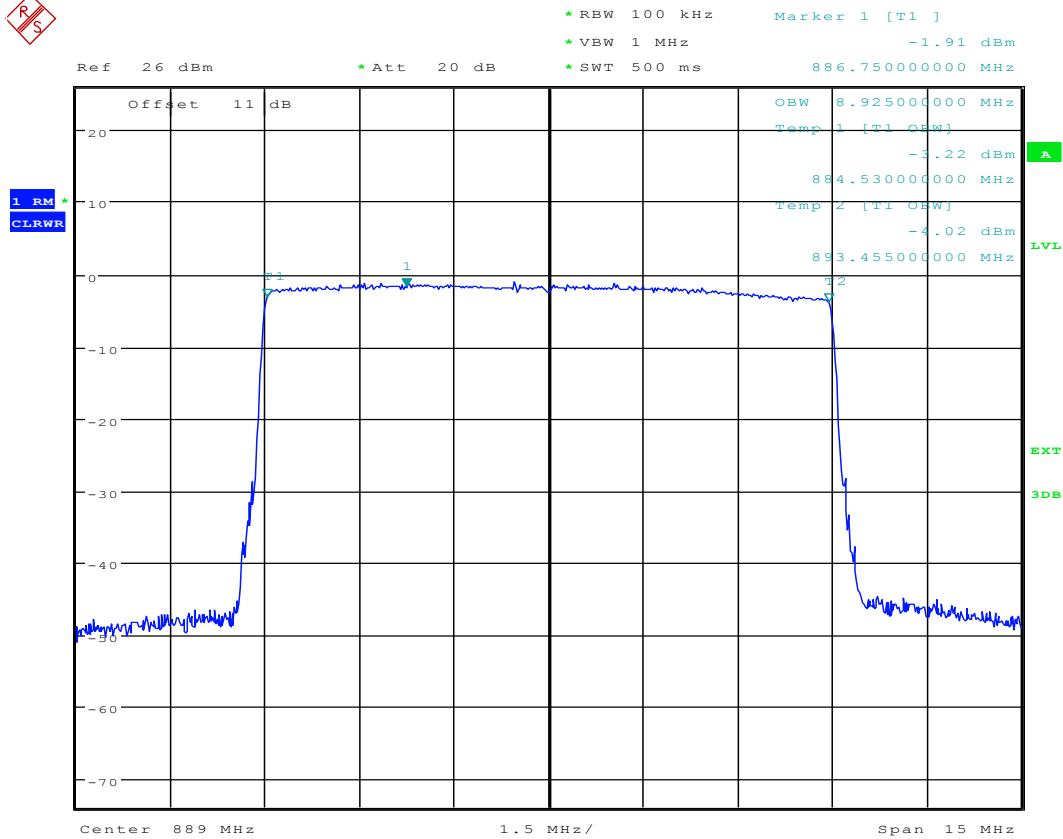
Date: 18.NOV.2015 15:40:32

2.1.5 10M_M



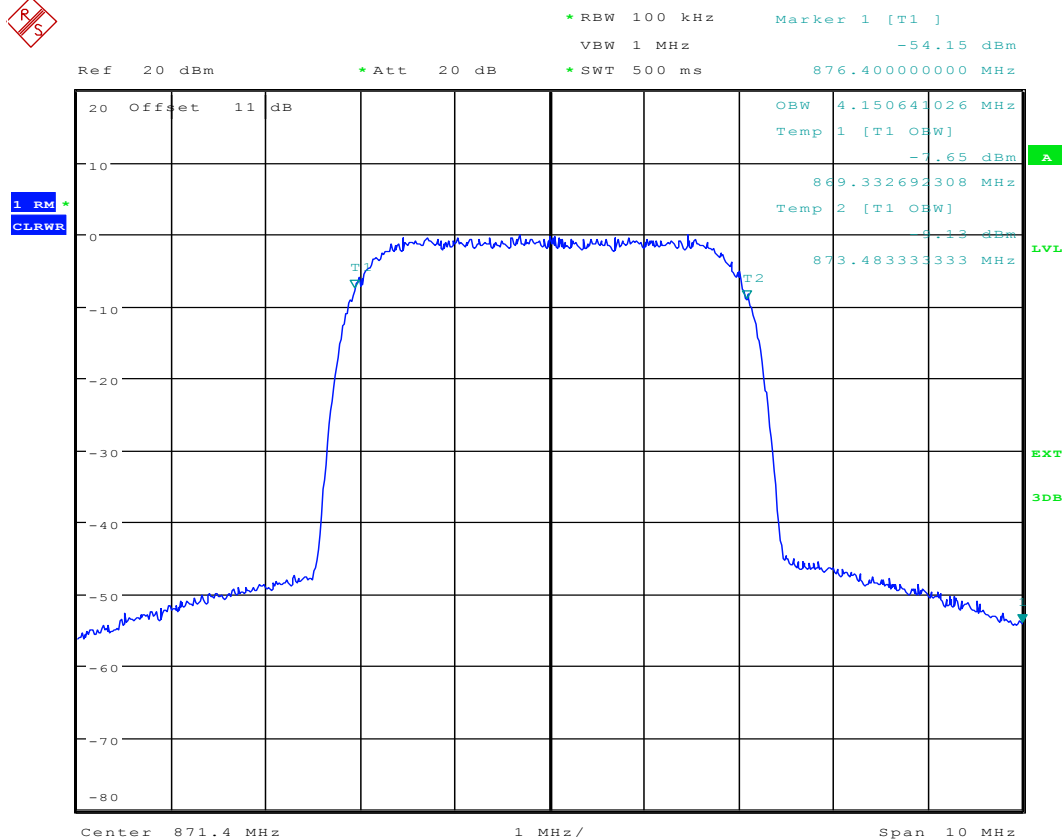
Date: 18.NOV.2015 15:39:50

2.1.6 10M_T



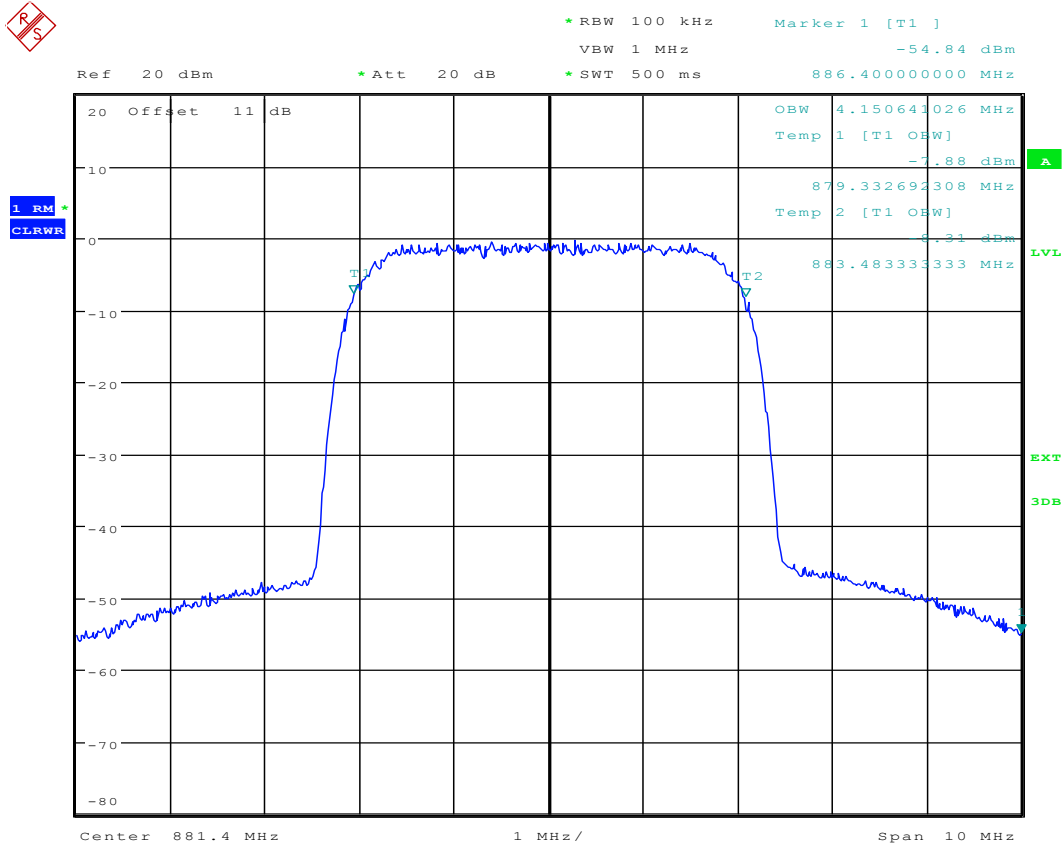
Date: 18.NOV.2015 15:39:02

2.1.7 1U_B



Date: 19.NOV.2015 08:52:17

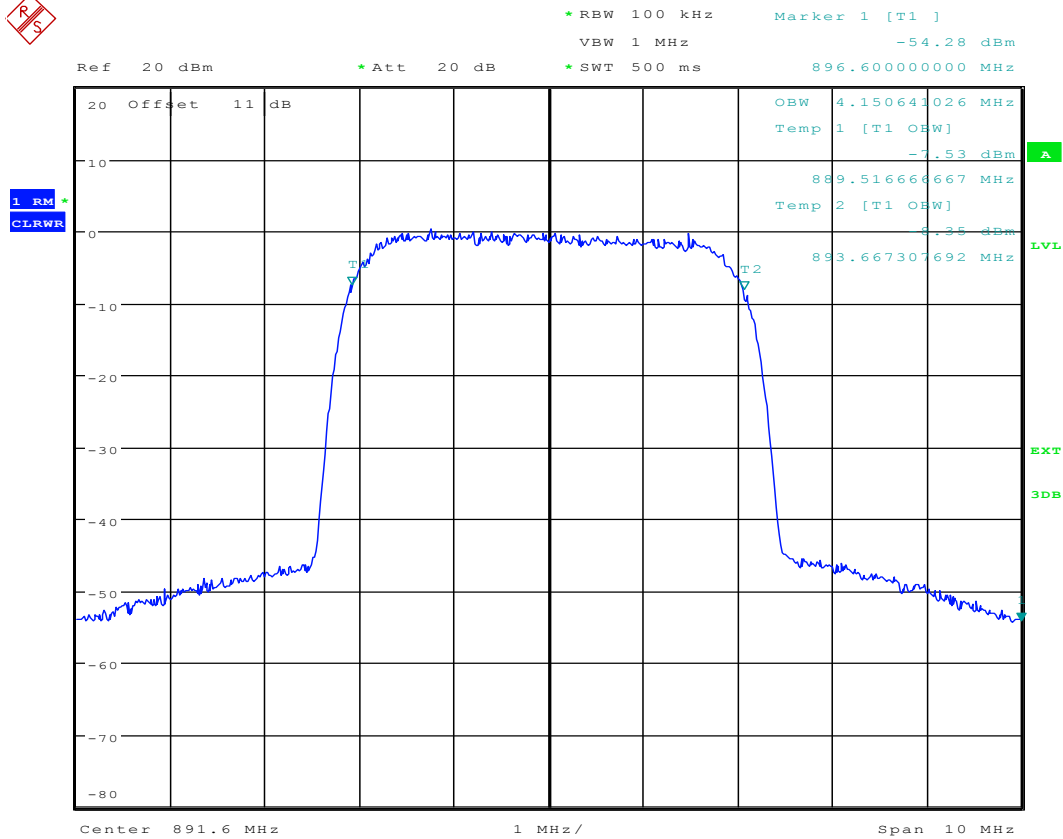
2.1.8 1U_M



Date: 19.NOV.2015 08:50:58



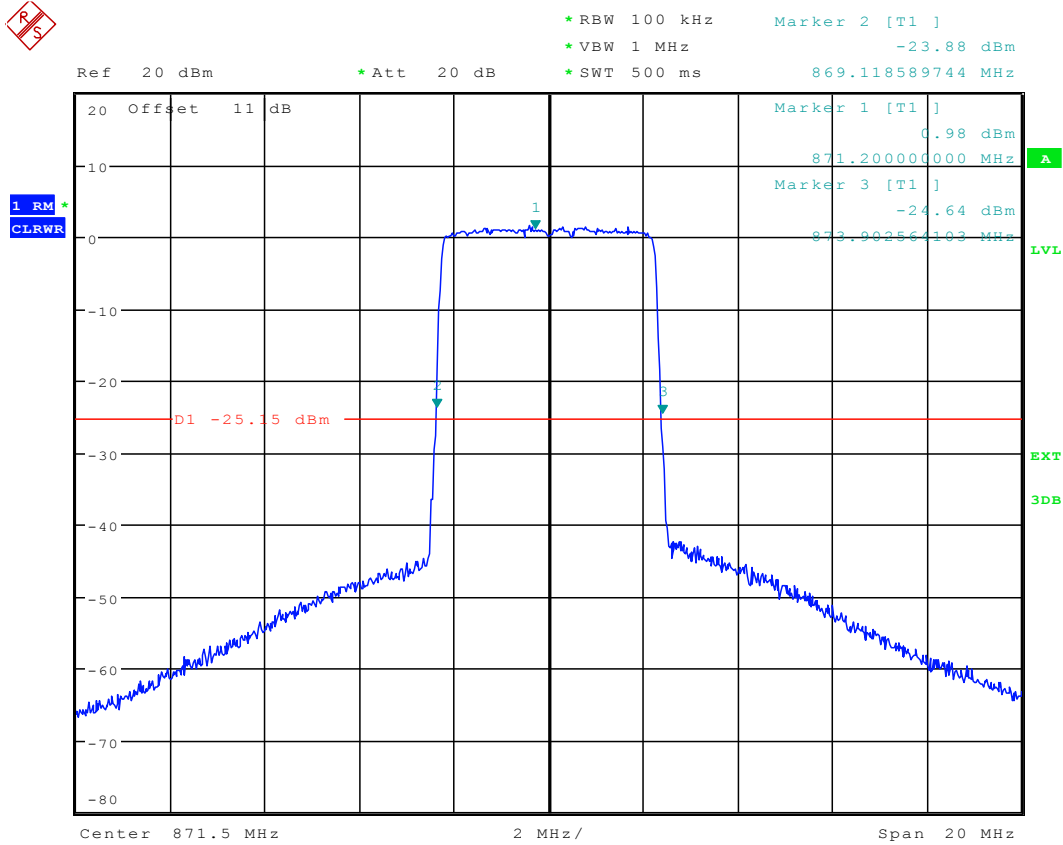
2.1.9 1U_T



Date: 19.NOV.2015 08:48:27

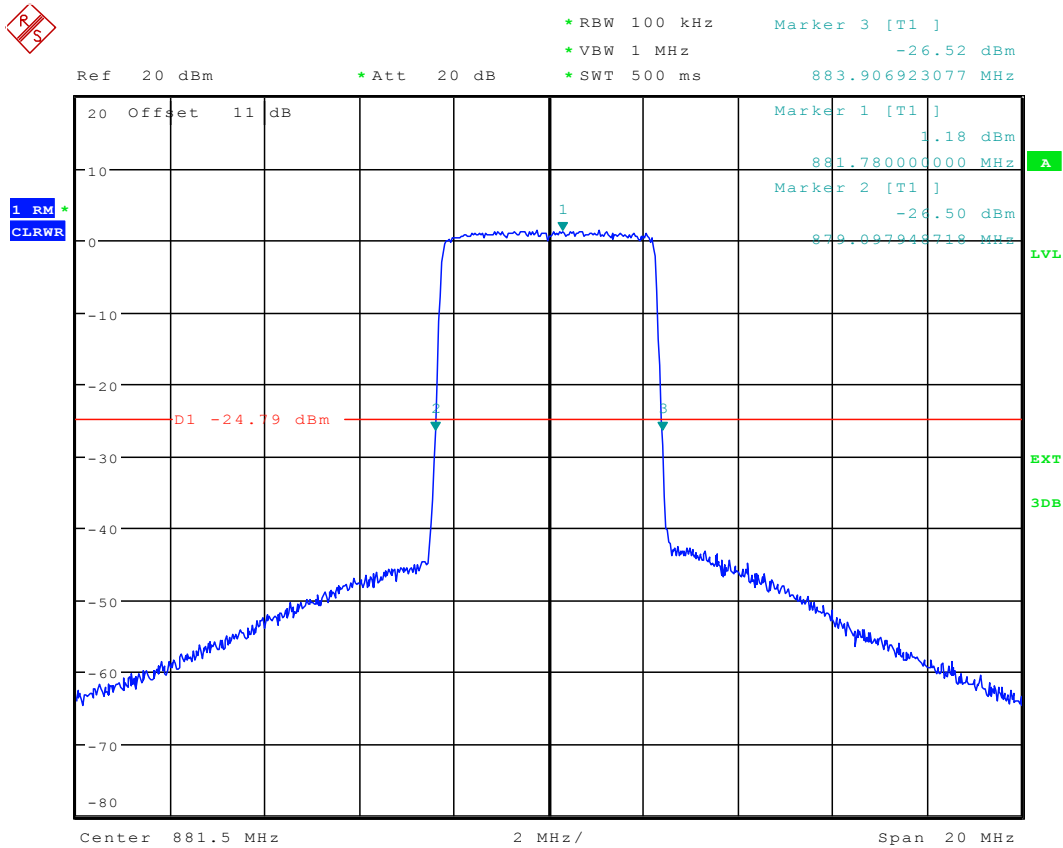
2.2 Emission Bandwidth

2.2.1 5M_B



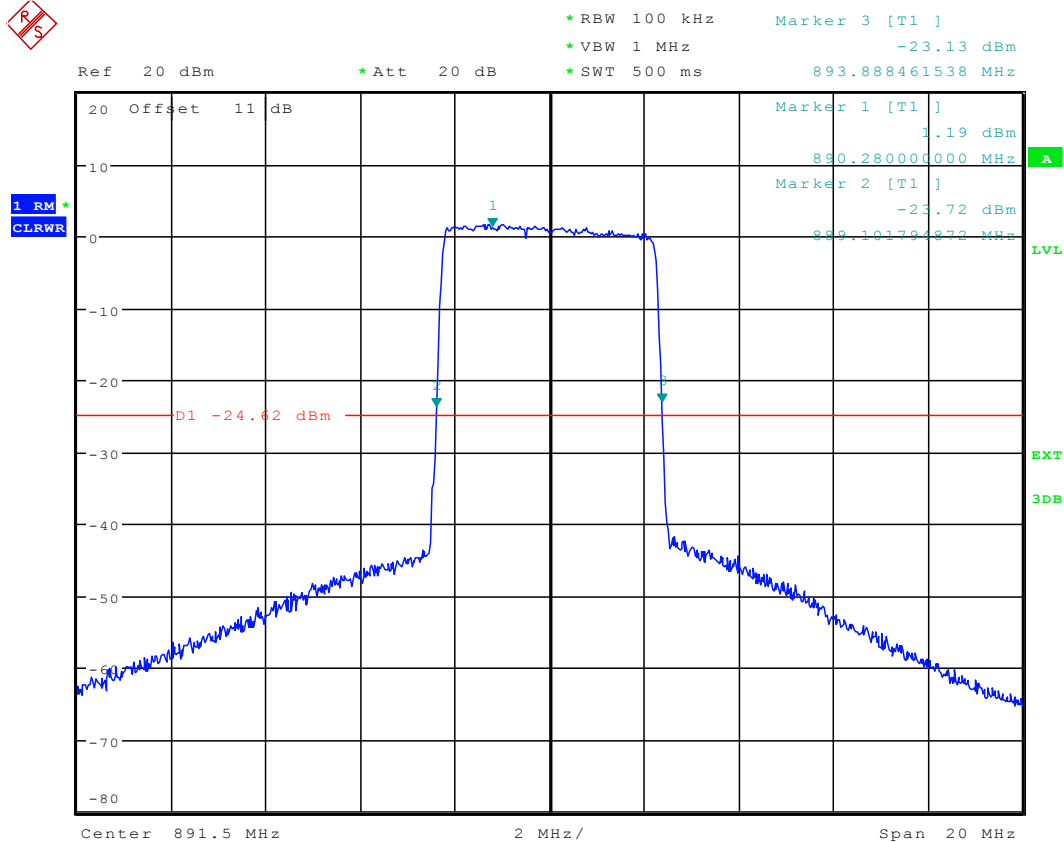
Date: 18.NOV.2015 15:53:16

2.2.2 5M_M



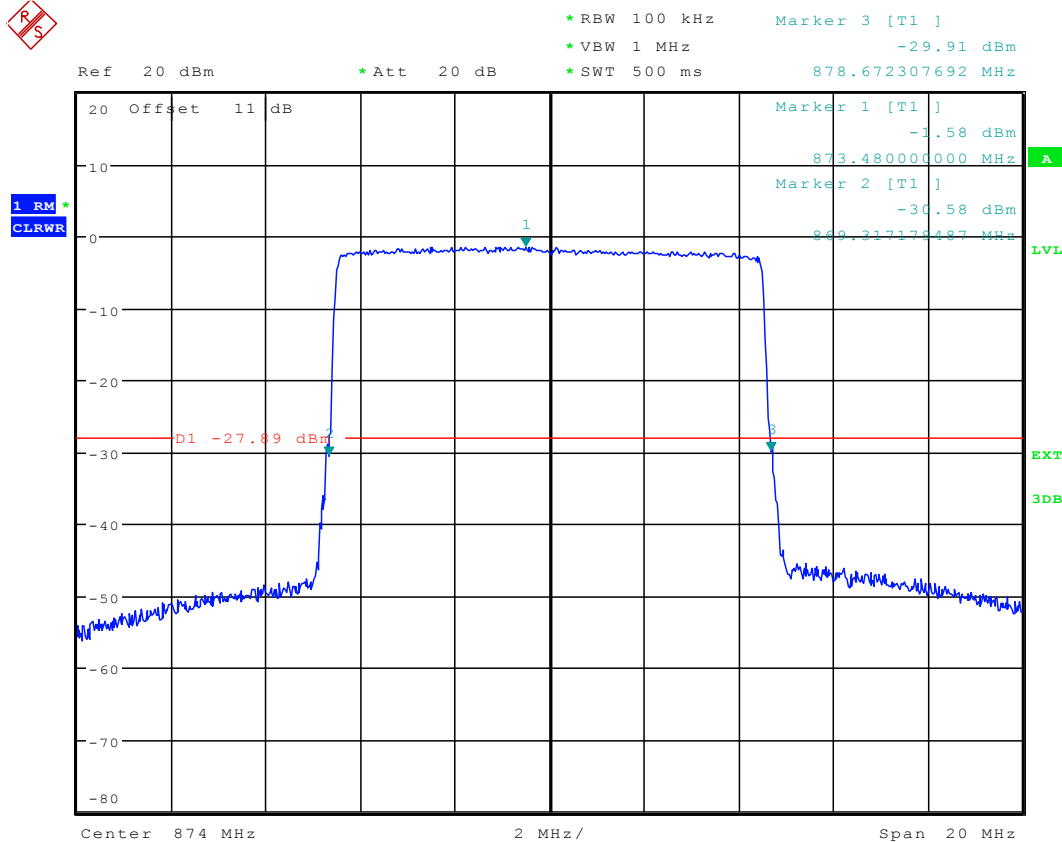
Date: 18.NOV.2015 15:54:35

2.2.3 5M_T



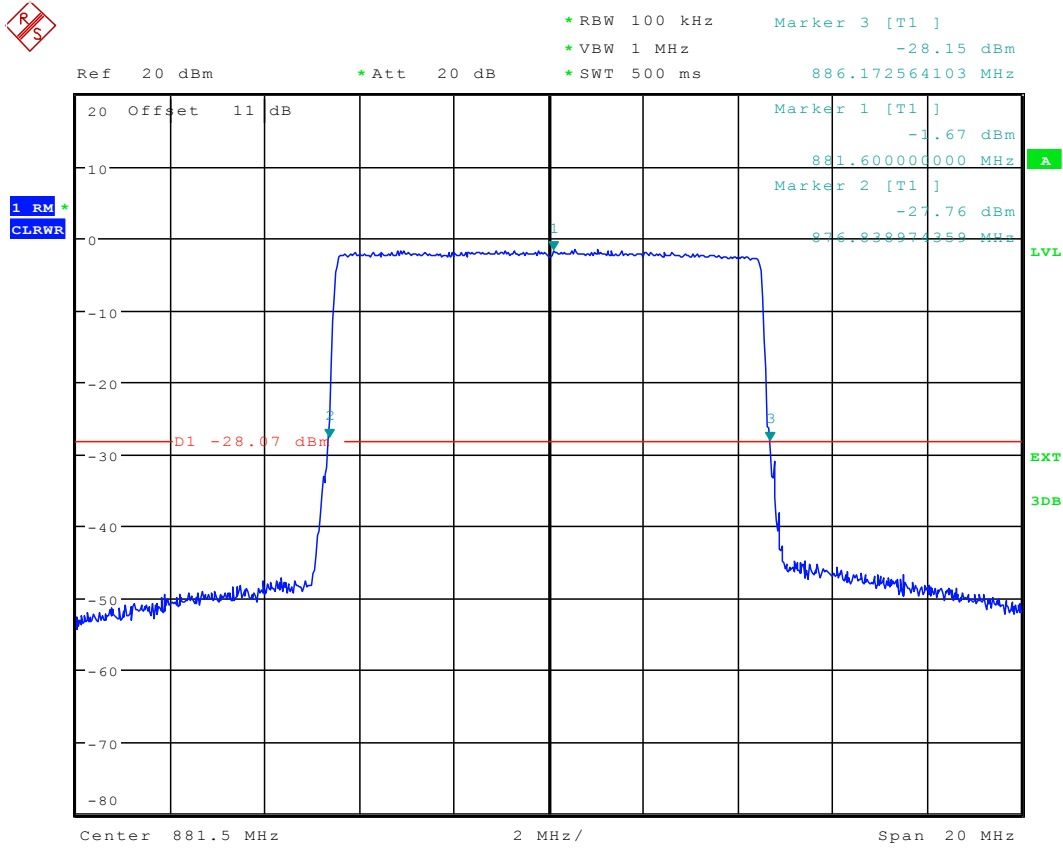
Date: 18.NOV.2015 15:55:51

2.2.4 10M_B



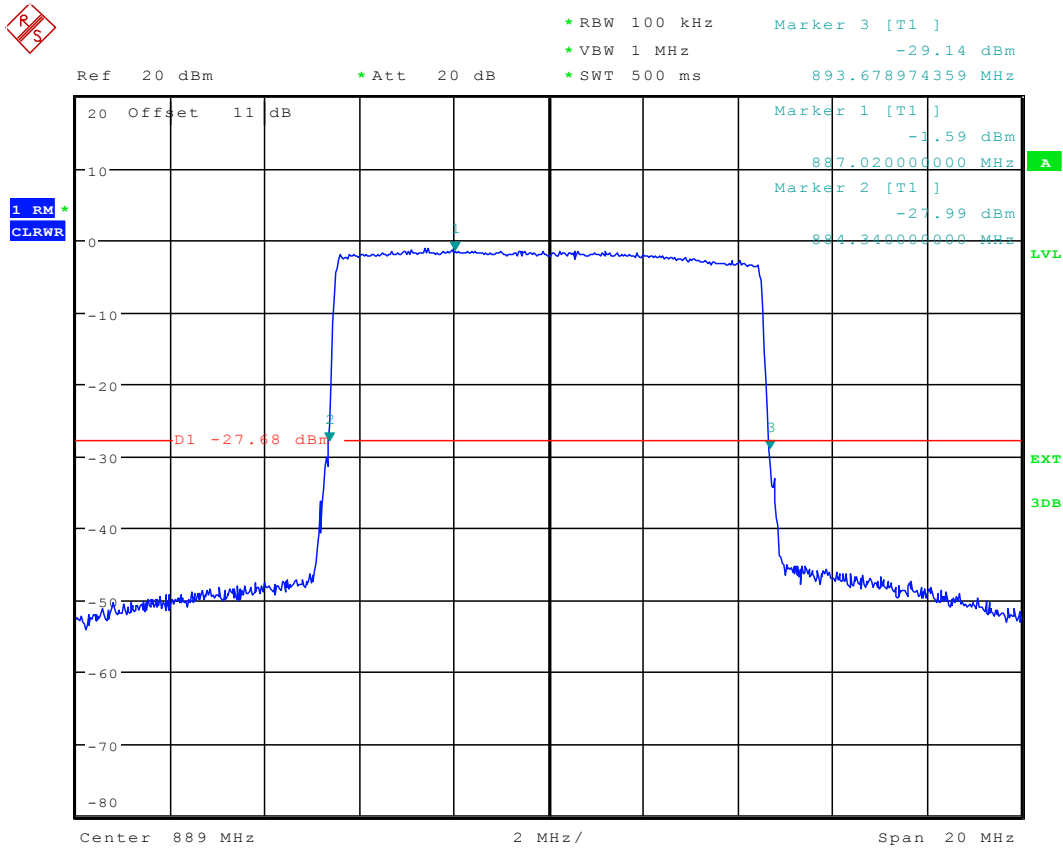
Date: 18.NOV.2015 15:57:24

2.2.5 10M_M



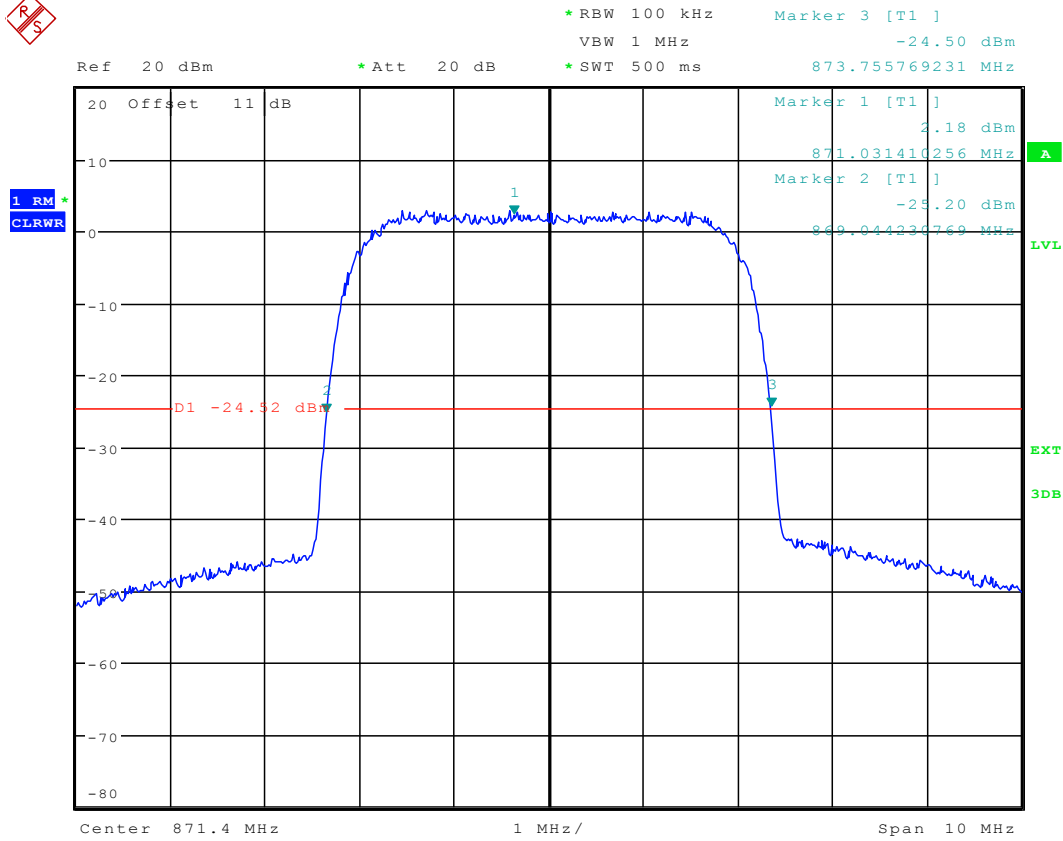
Date: 18.NOV.2015 15:58:30

2.2.6 10M_T



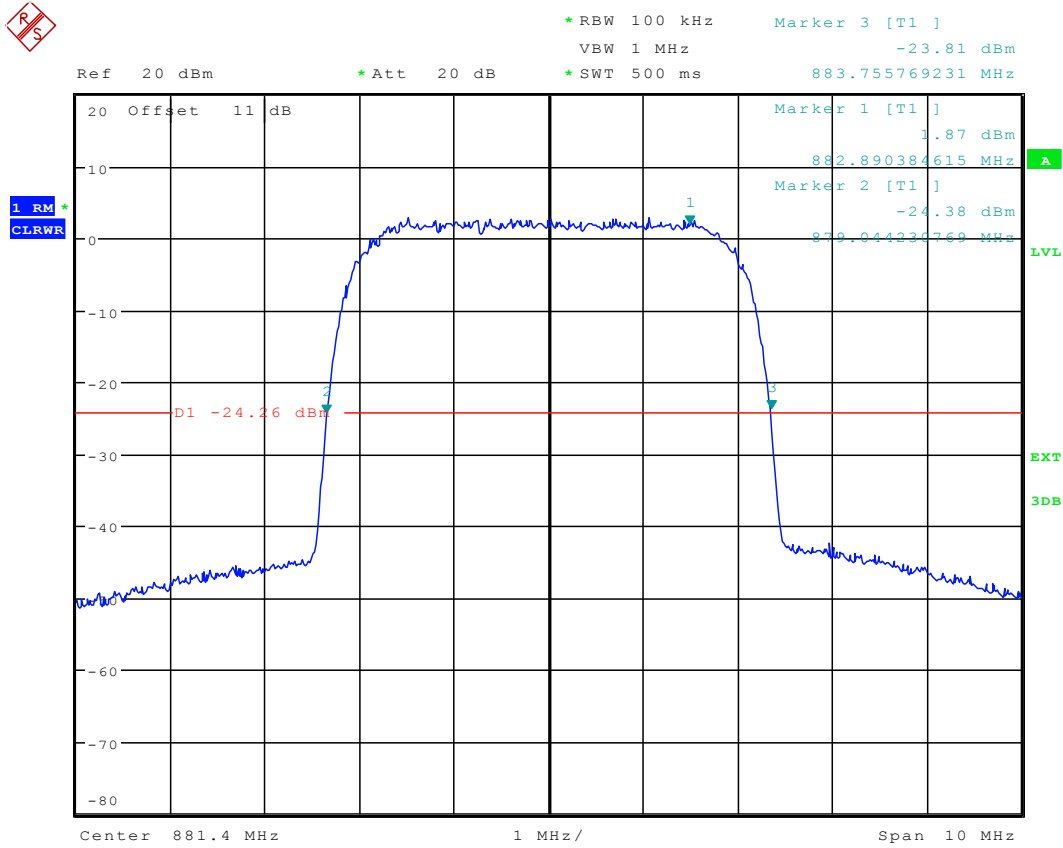
Date: 18.NOV.2015 15:59:38

2.2.7 1U_B



Date: 20.NOV.2015 08:43:32

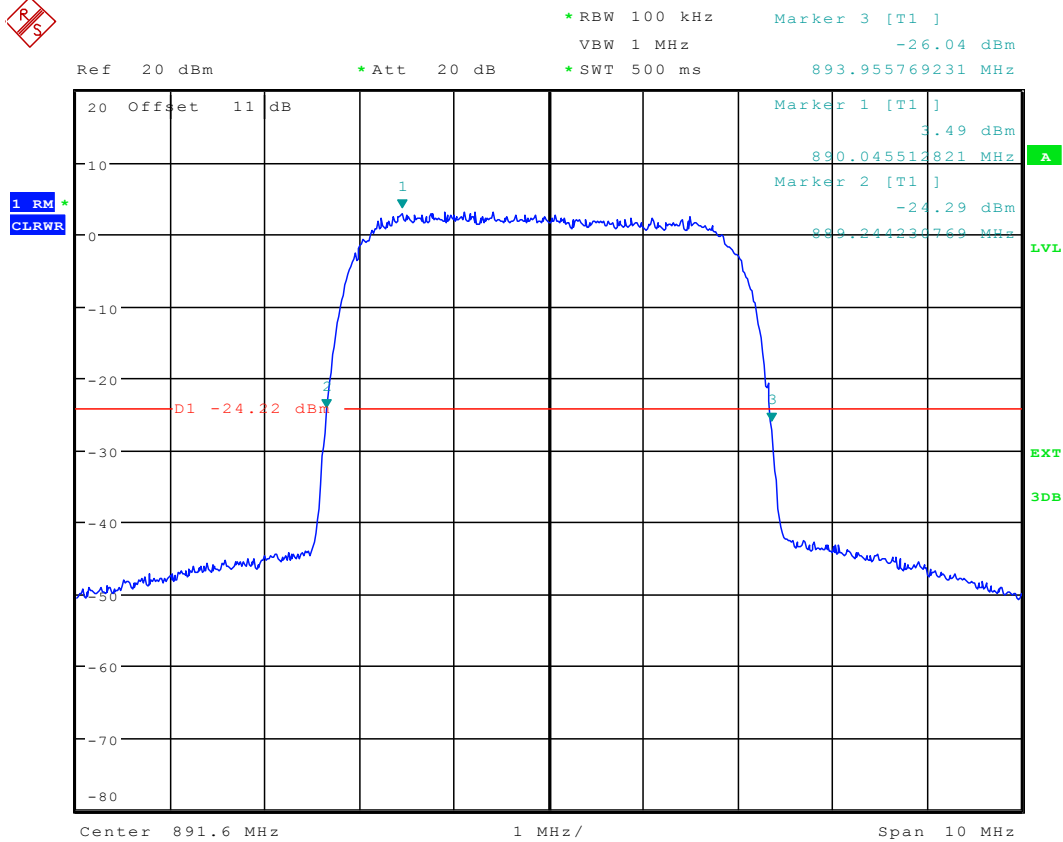
2.2.8 1U_M



Date: 20.NOV.2015 08:45:17



2.2.9 1U_T



Date: 20.NOV.2015 08:46:53



Appendix C1: Band Edges Compliance



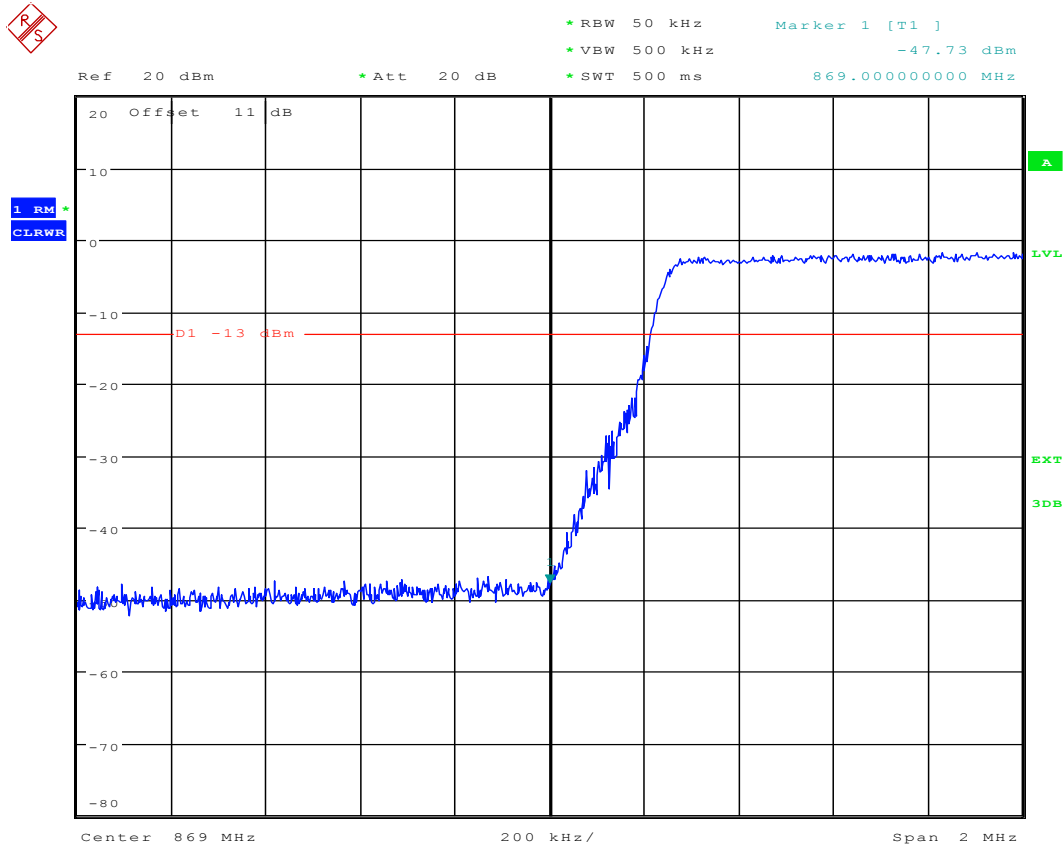
1 Result Table

NOTE: The offset of measurement filter -3dB point may be considered when identifying the maximum emission for e.g. the CDMA, WCDMA, WiMAX, LTE systems.

EUT Conf.	Maximum Emission [dBm]	Verdict
5M_B	<-13	Pass
5M_T	<-13	Pass
10M_B	<-13	Pass
10M_T	<-13	Pass
1U_B	<-13	Pass
1U_T	<-13	Pass

2 Test Plot

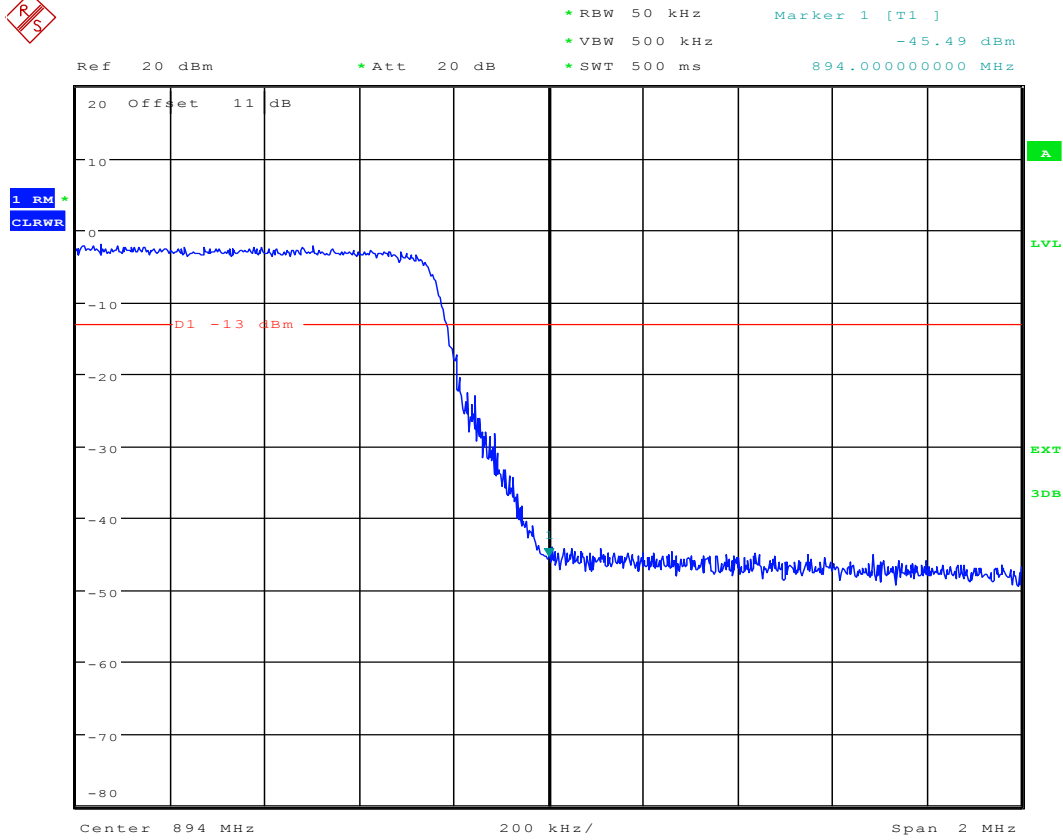
2.1 5M_B



Date: 18.NOV.2015 16:09:38

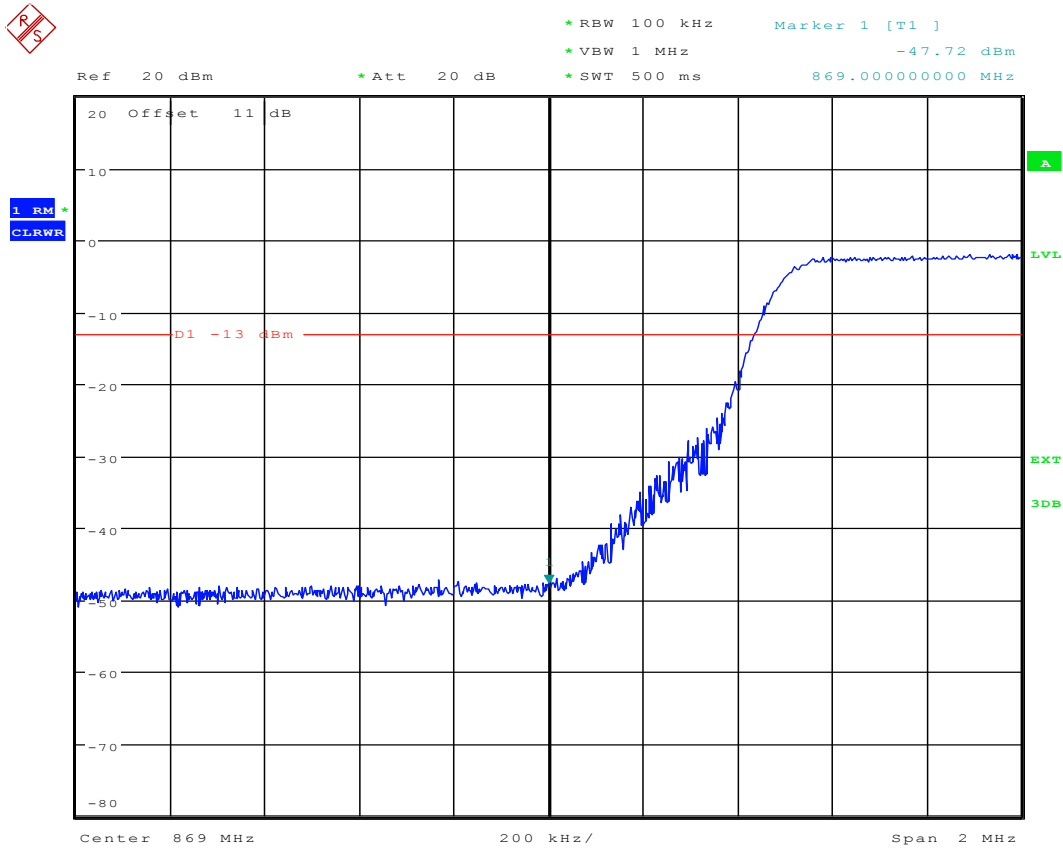


2.2 5M_T



Date: 18.NOV.2015 16:11:57

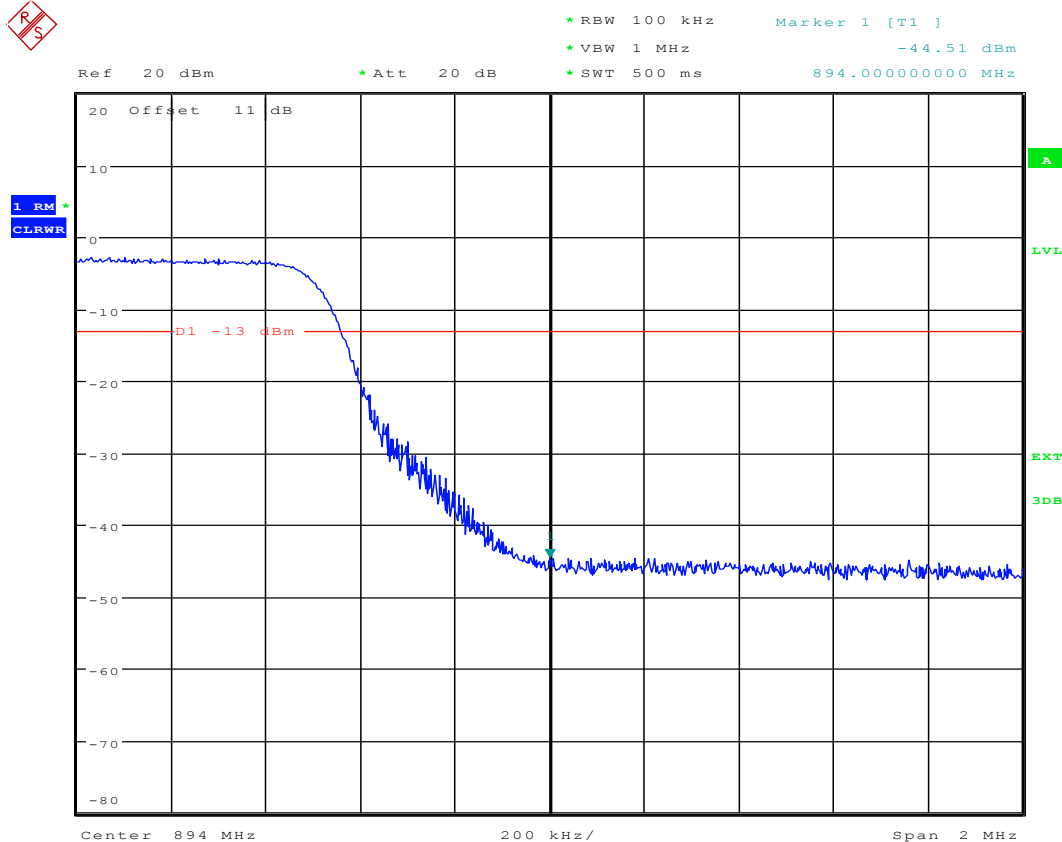
2.3 10M_B



Date: 18.NOV.2015 16:08:40



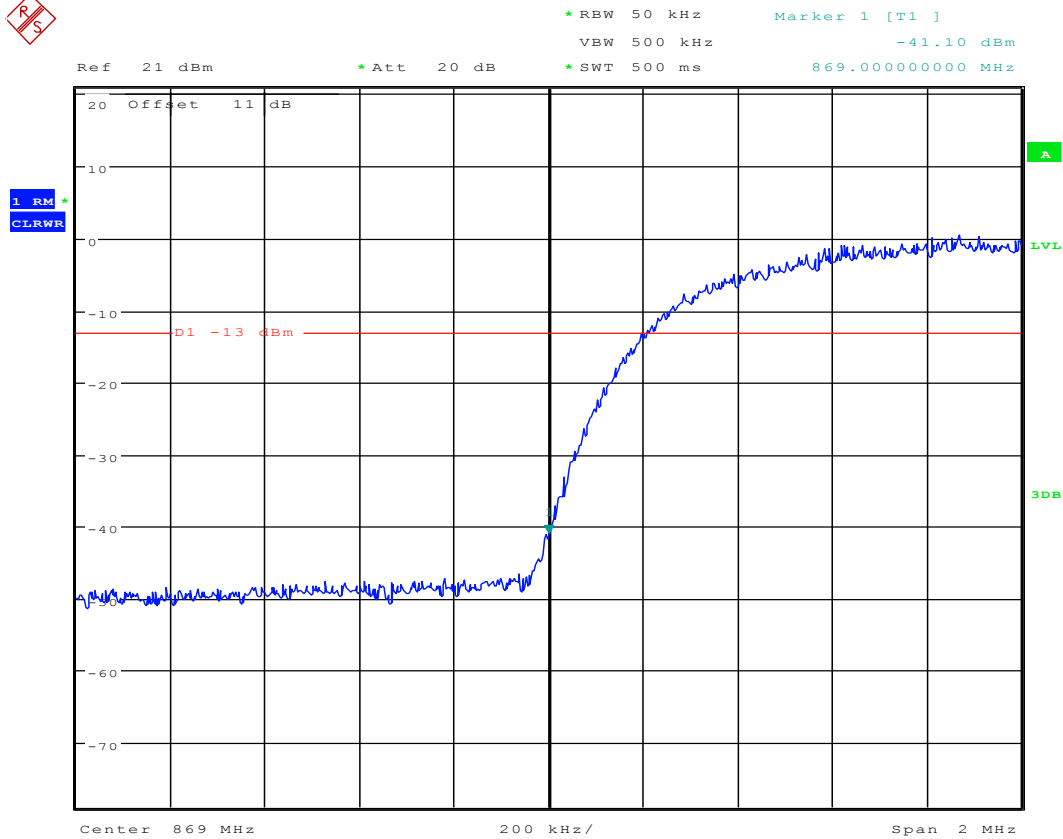
2.4 10M_T



Date: 18.NOV.2015 16:07:24



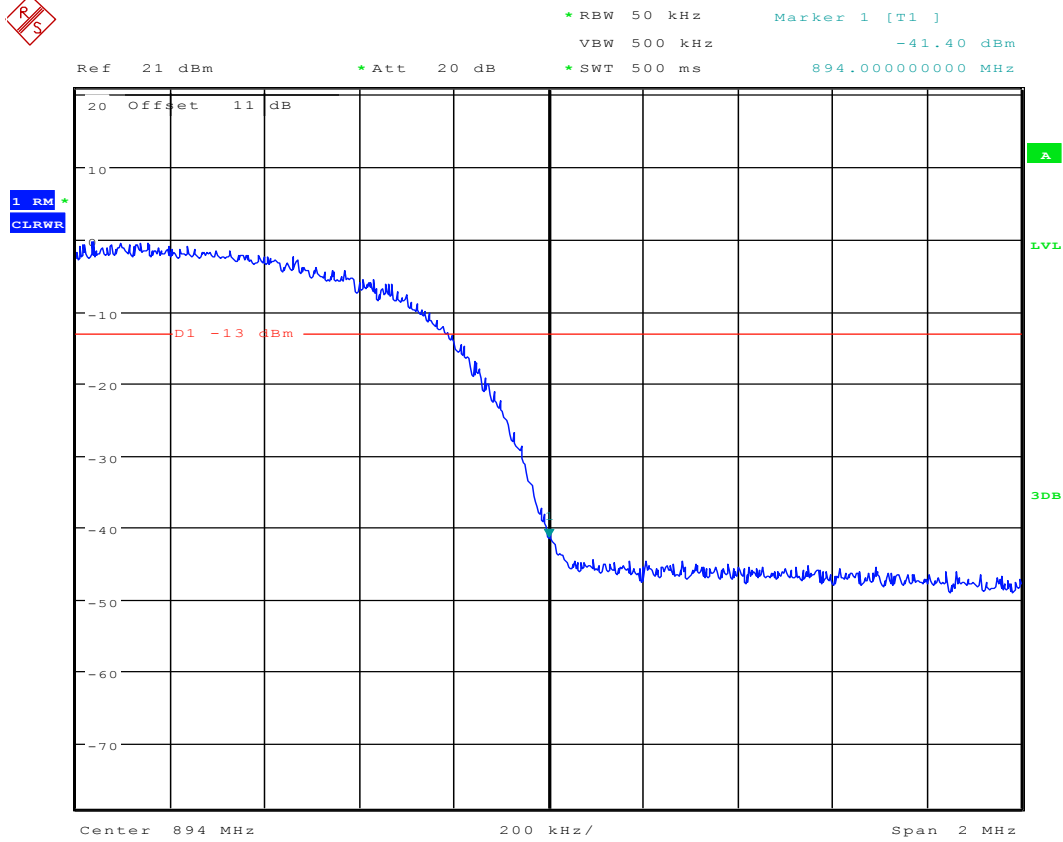
2.5 1U_B



Date: 20.NOV.2015 13:45:18



2.6 1U_T



Date: 20.NOV.2015 13:47:18



Appendix D1: Spurious Emission at Antenna Terminals



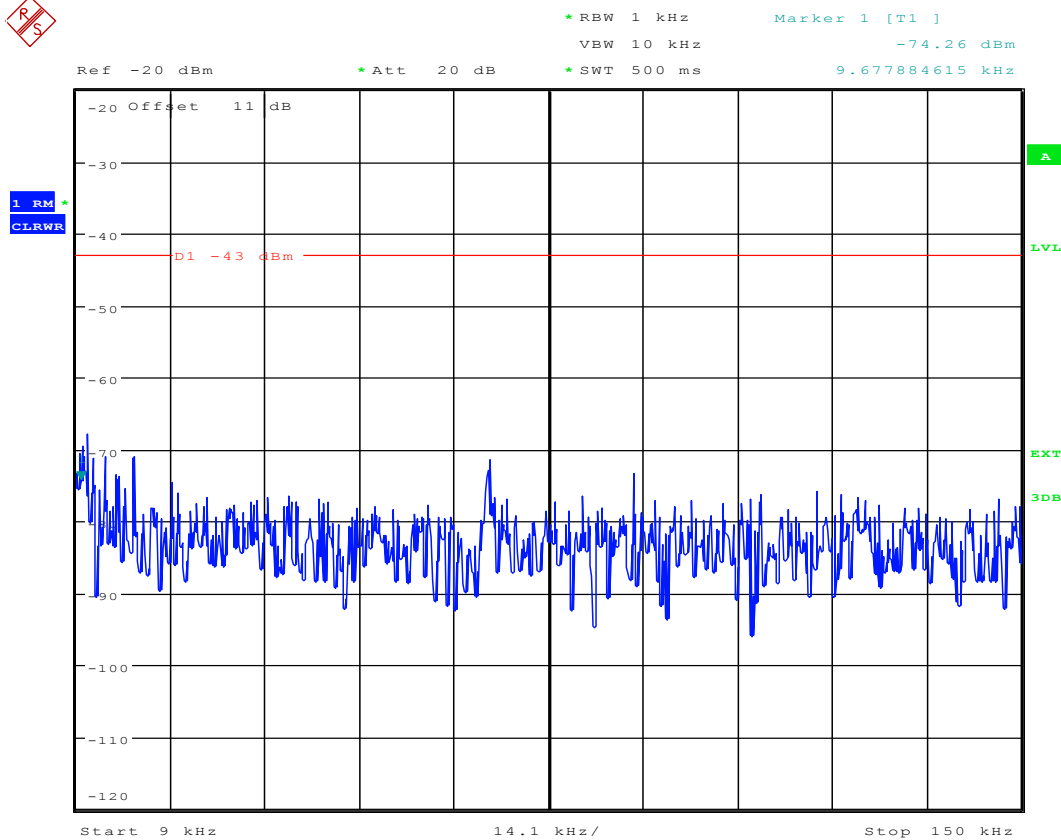
1 Result Table

EUT Conf.	Maximum Emission [dBm]	Verdict
5M_B	<-13	Pass
5M_M	<-13	Pass
5M_T	<-13	Pass
10M_B	<-13	Pass
10M_M	<-13	Pass
10M_T	<-13	Pass
1U_B	<-13	Pass
1U_M	<-13	Pass
1U_T	<-13	Pass

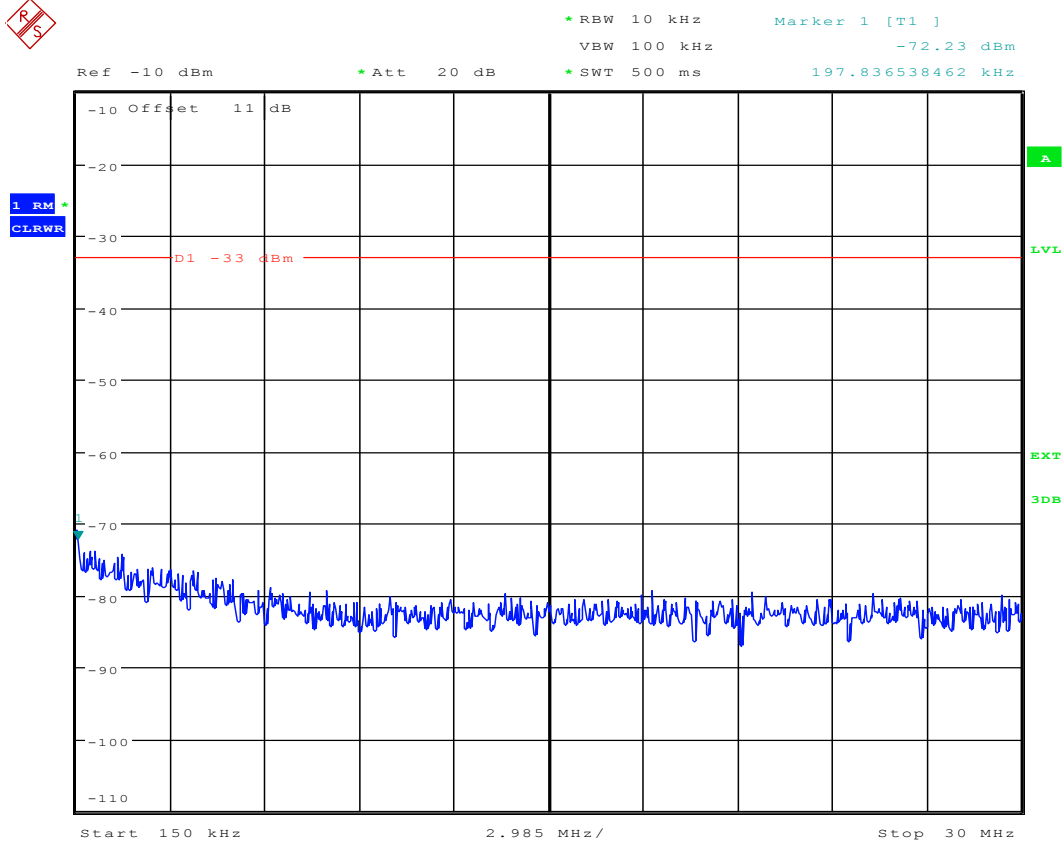


2 Test Plot

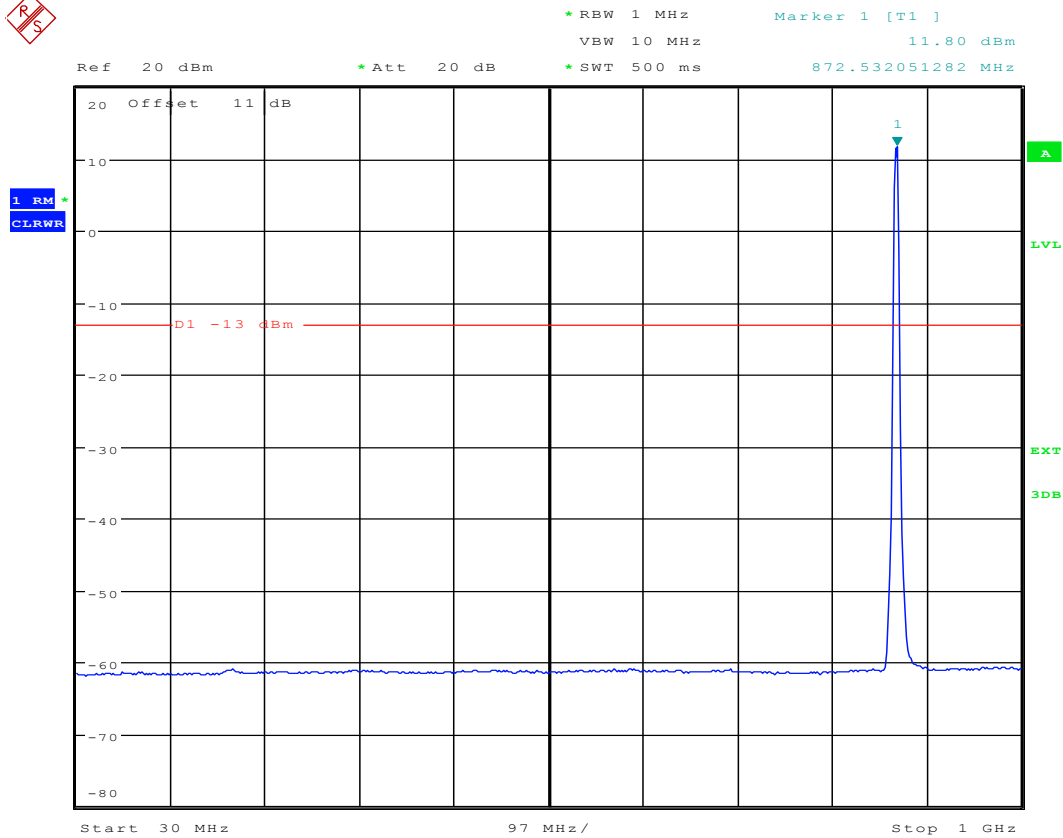
2.1 5M_B



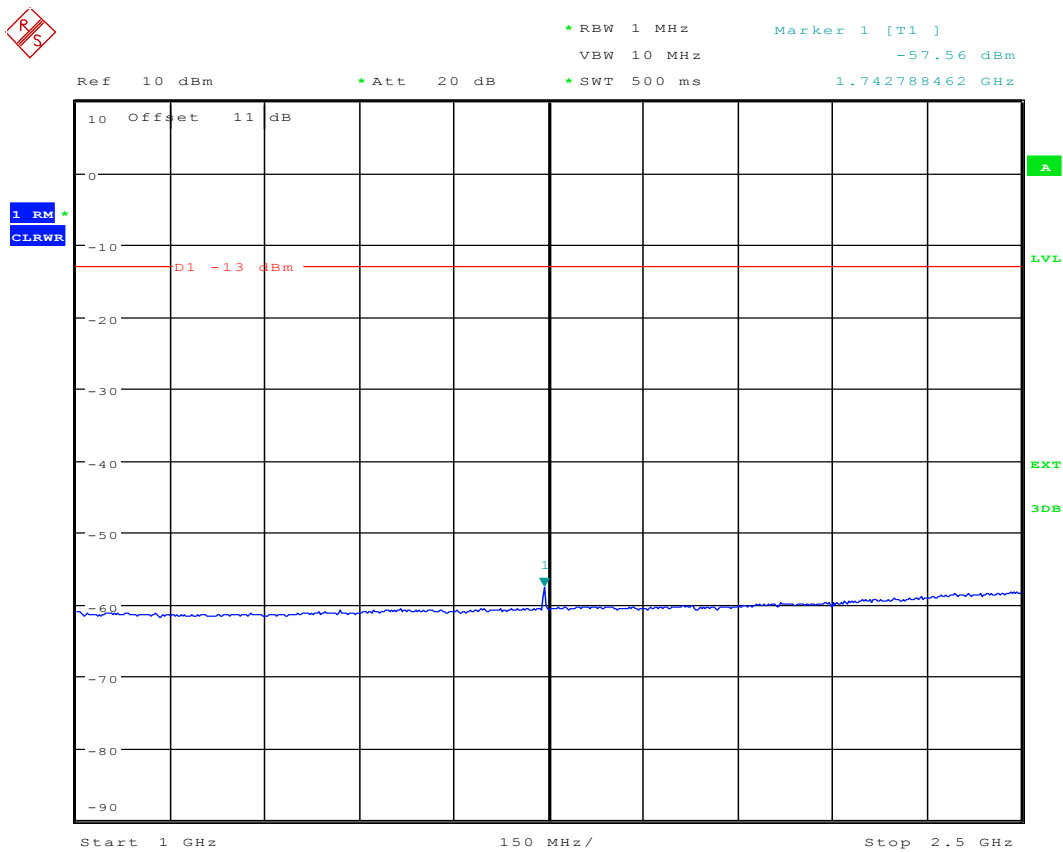
Date: 18.NOV.2015 16:27:36



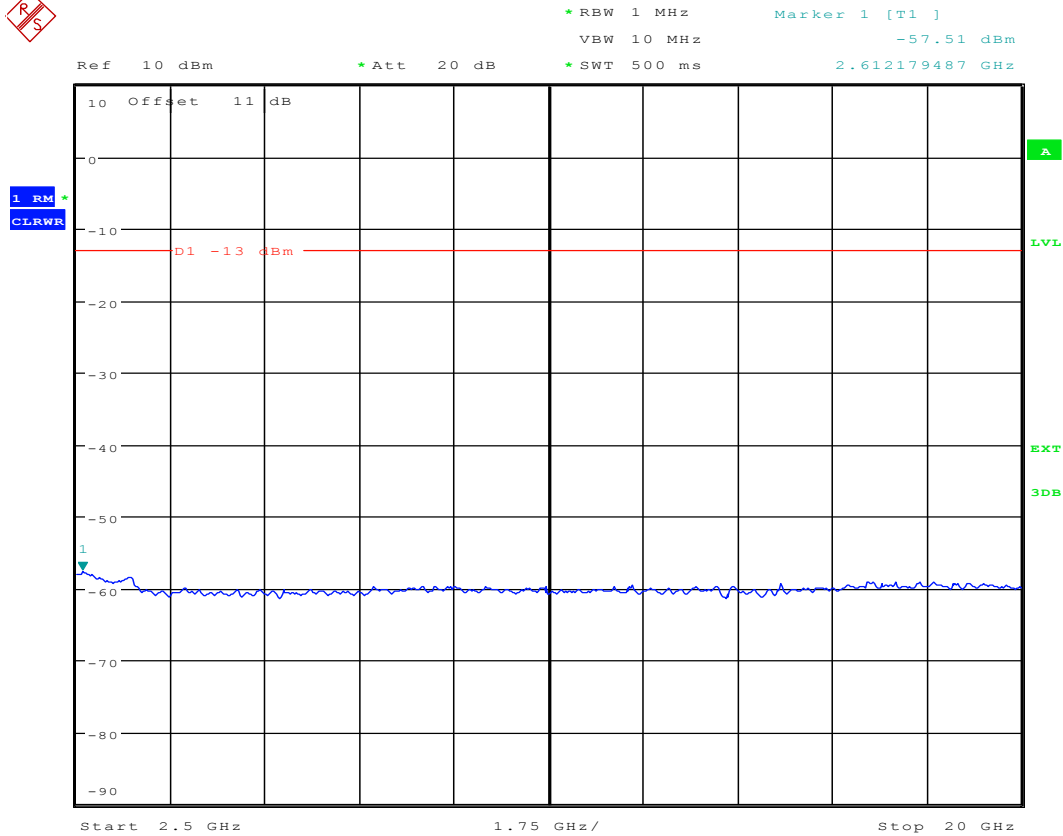
Date: 18.NOV.2015 16:29:50



Date: 18.NOV.2015 16:31:33



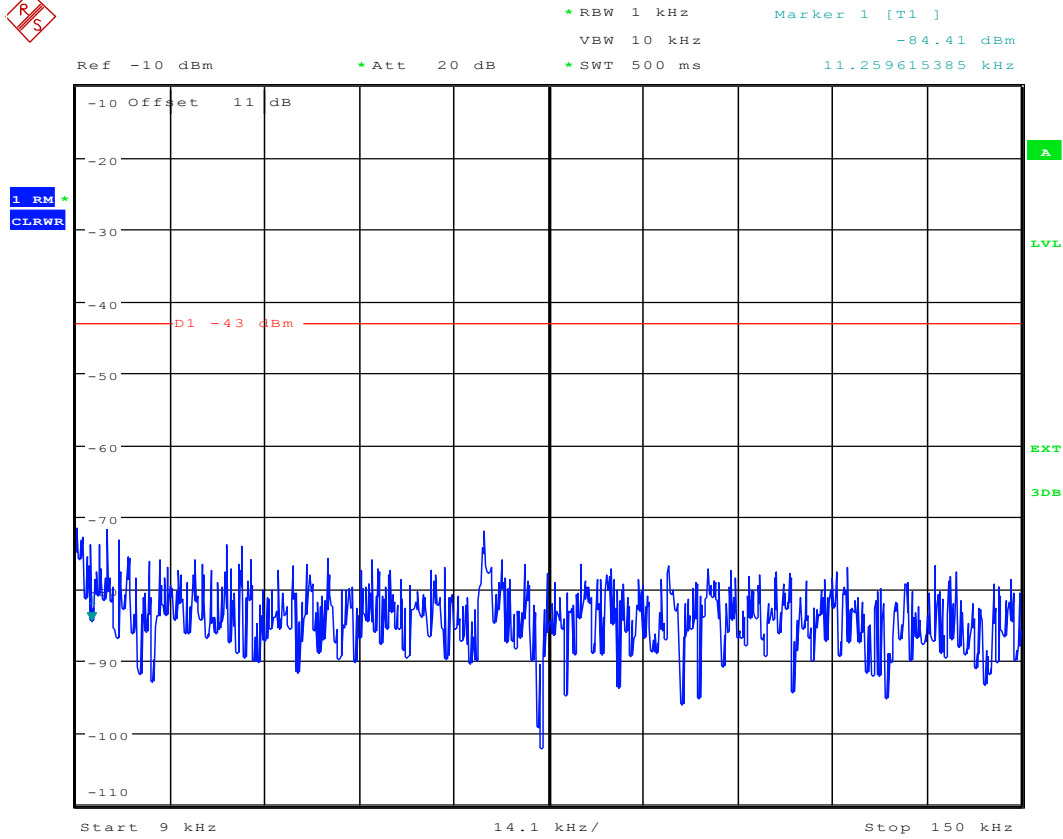
Date: 18.NOV.2015 16:32:02



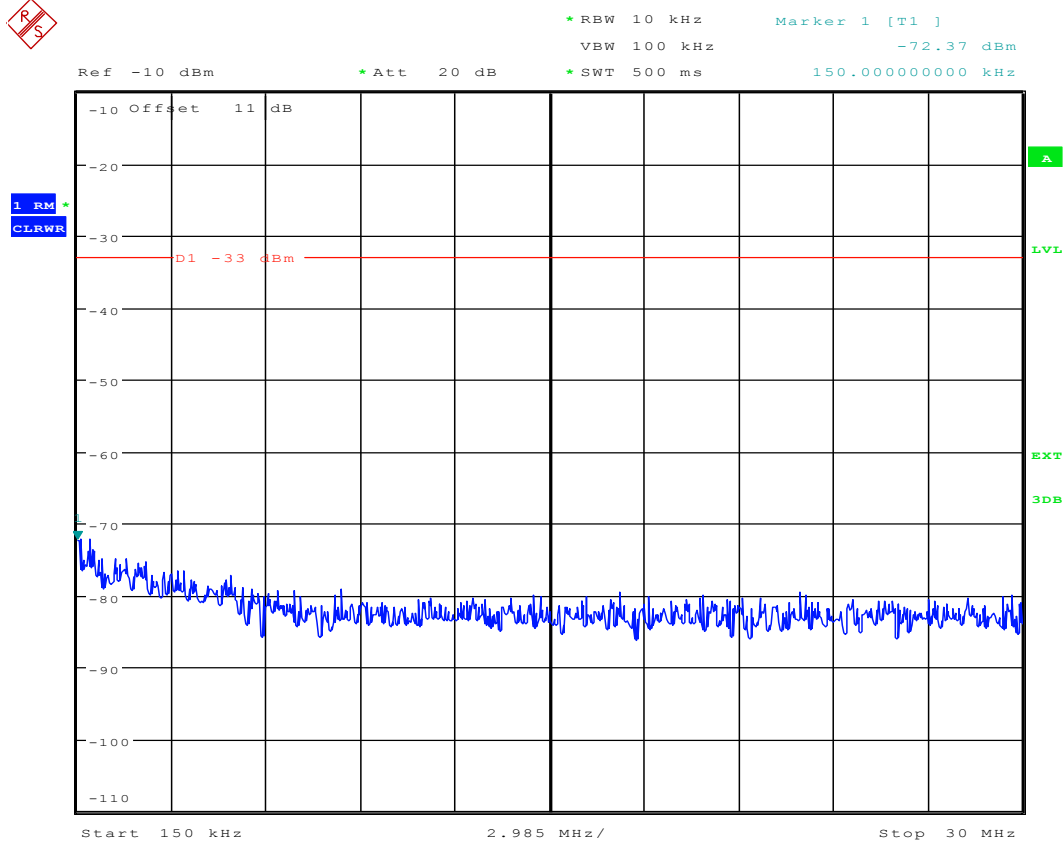
Date: 18.NOV.2015 16:32:25



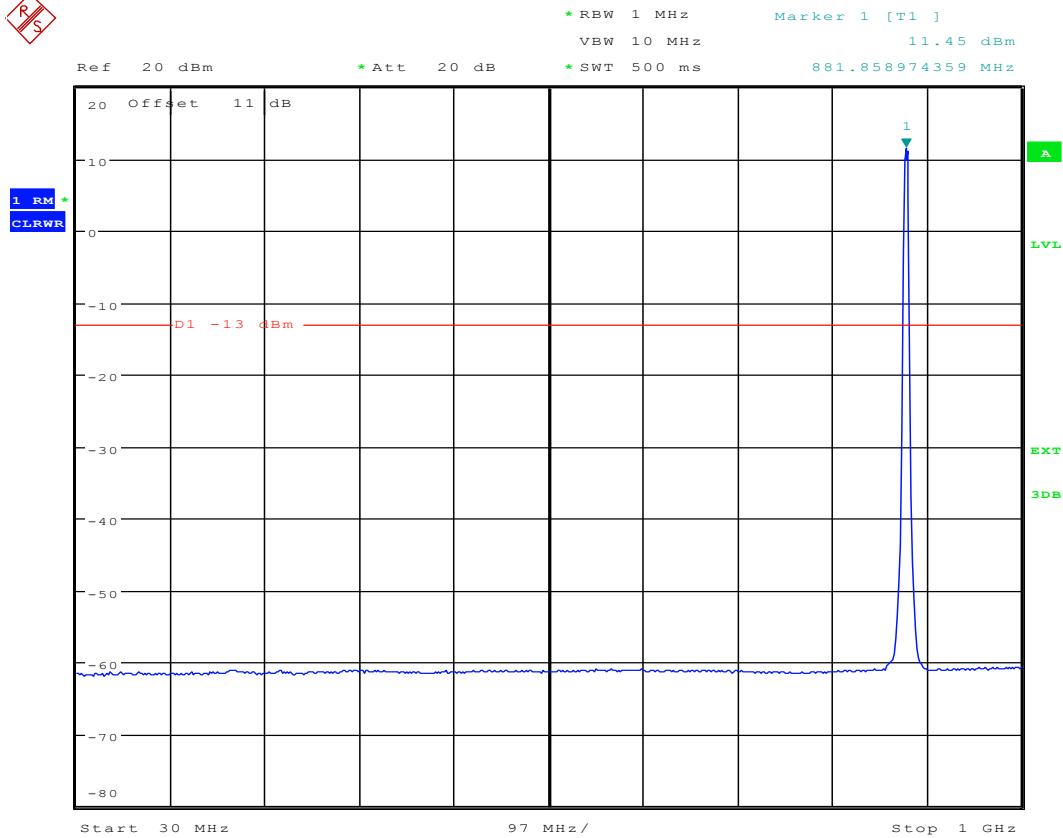
2.2 5M_M



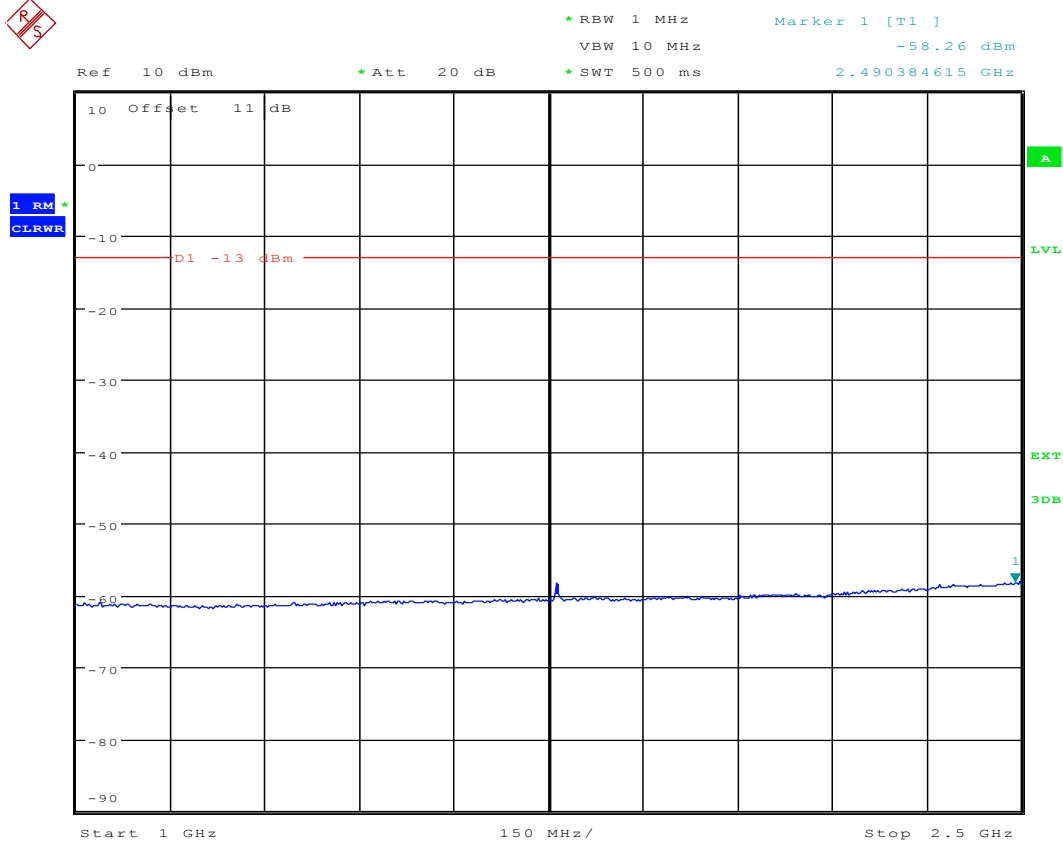
Date: 18.NOV.2015 16:35:53



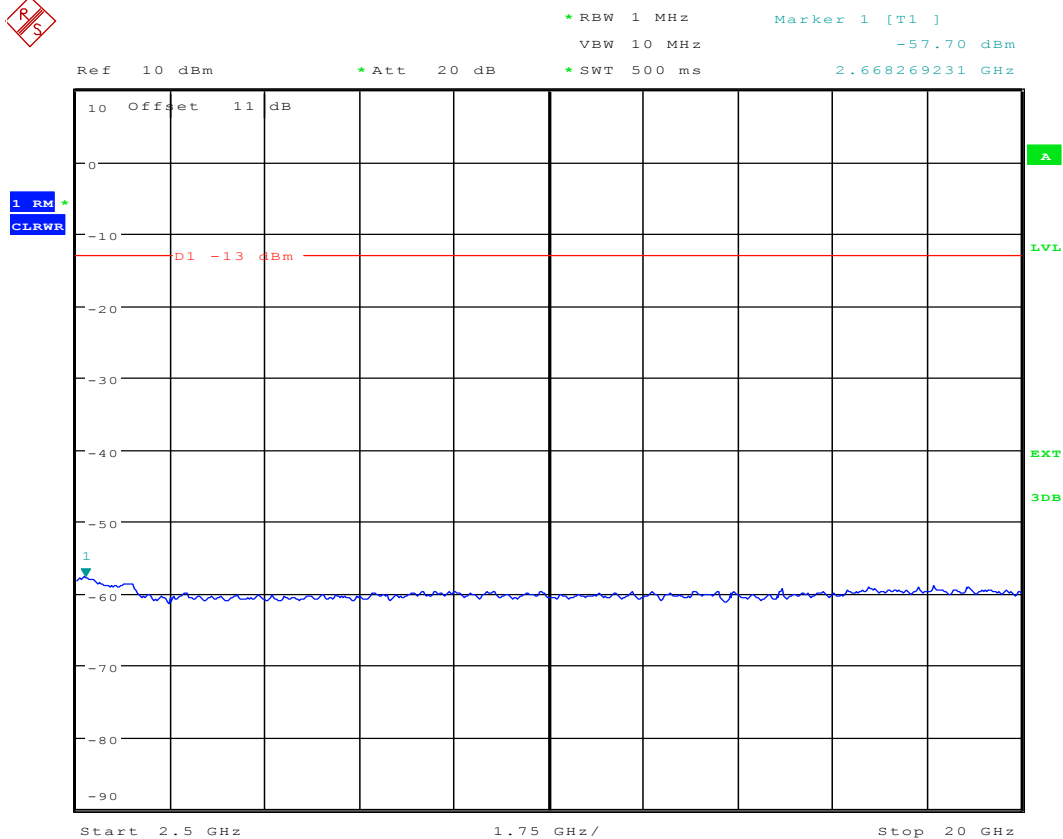
Date: 18.NOV.2015 16:35:17



Date: 18.NOV.2015 16:34:36



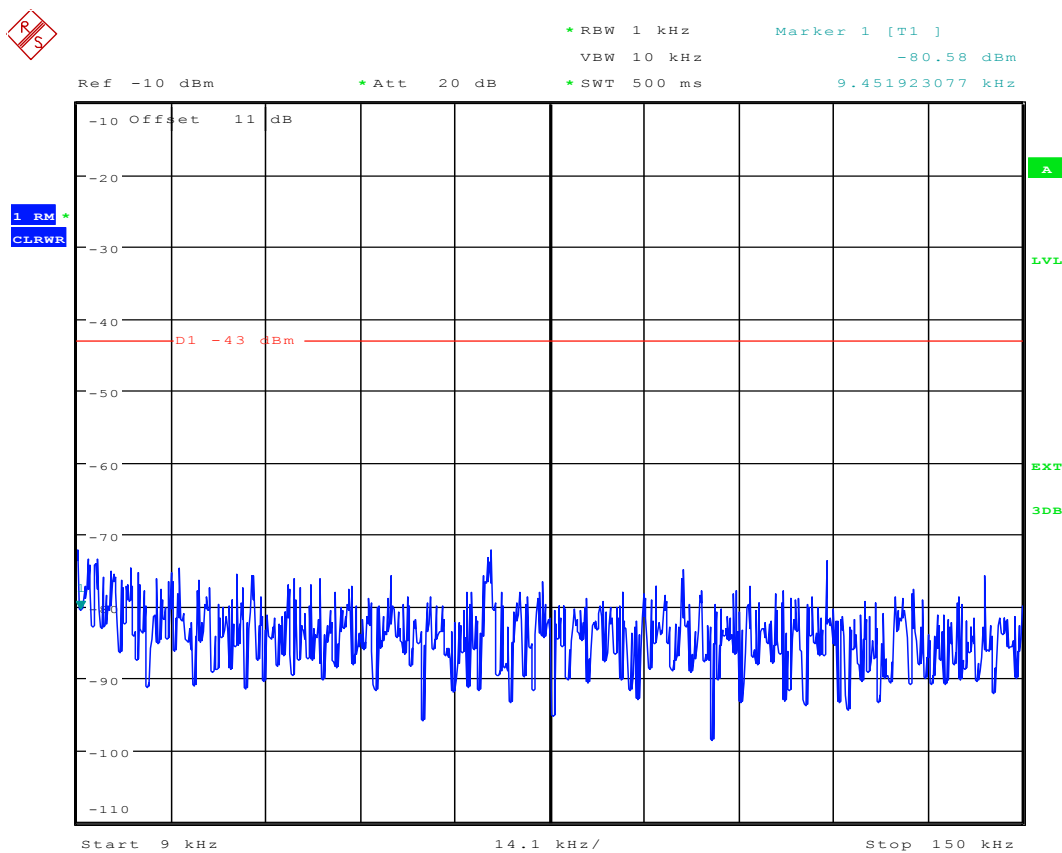
Date: 18.NOV.2015 16:34:14



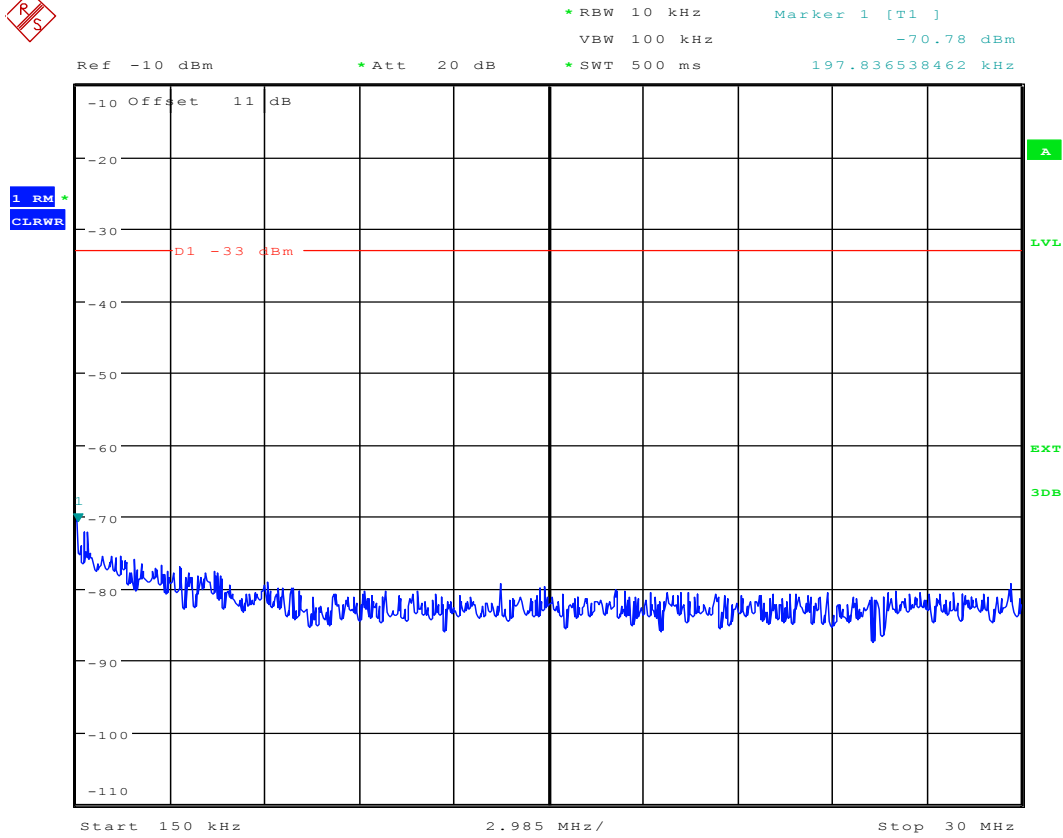
Date: 18.NOV.2015 16:33:15



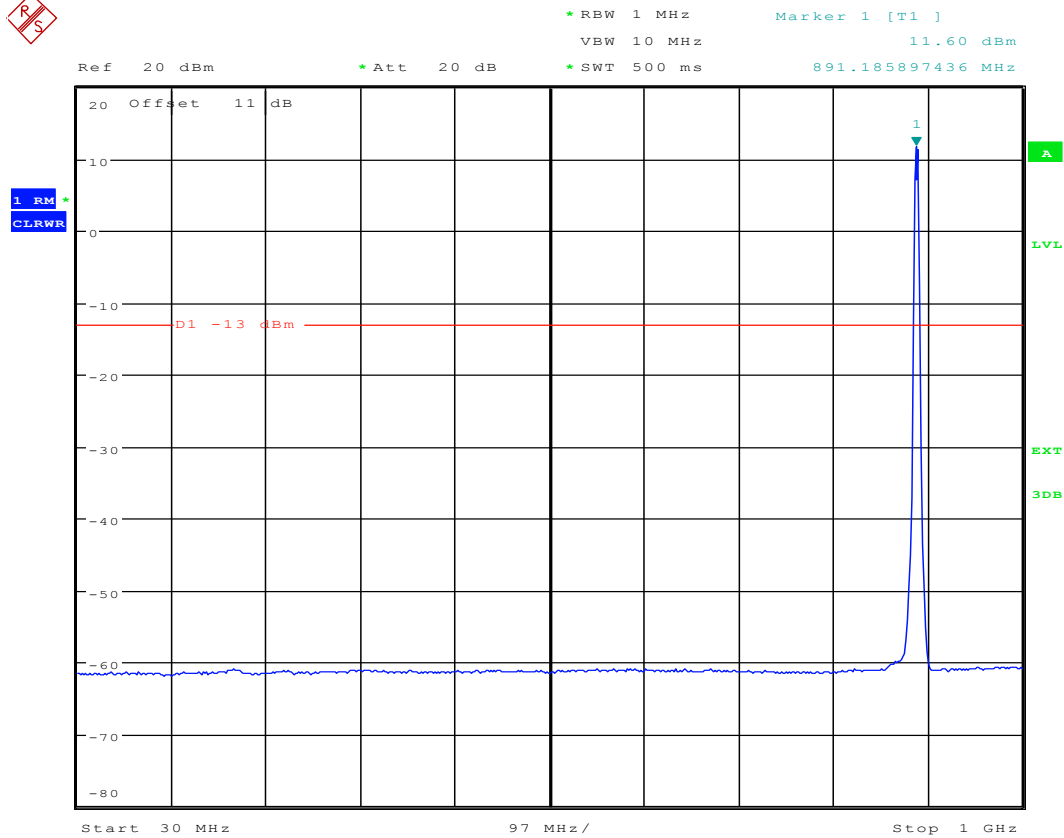
2.3 5M_T



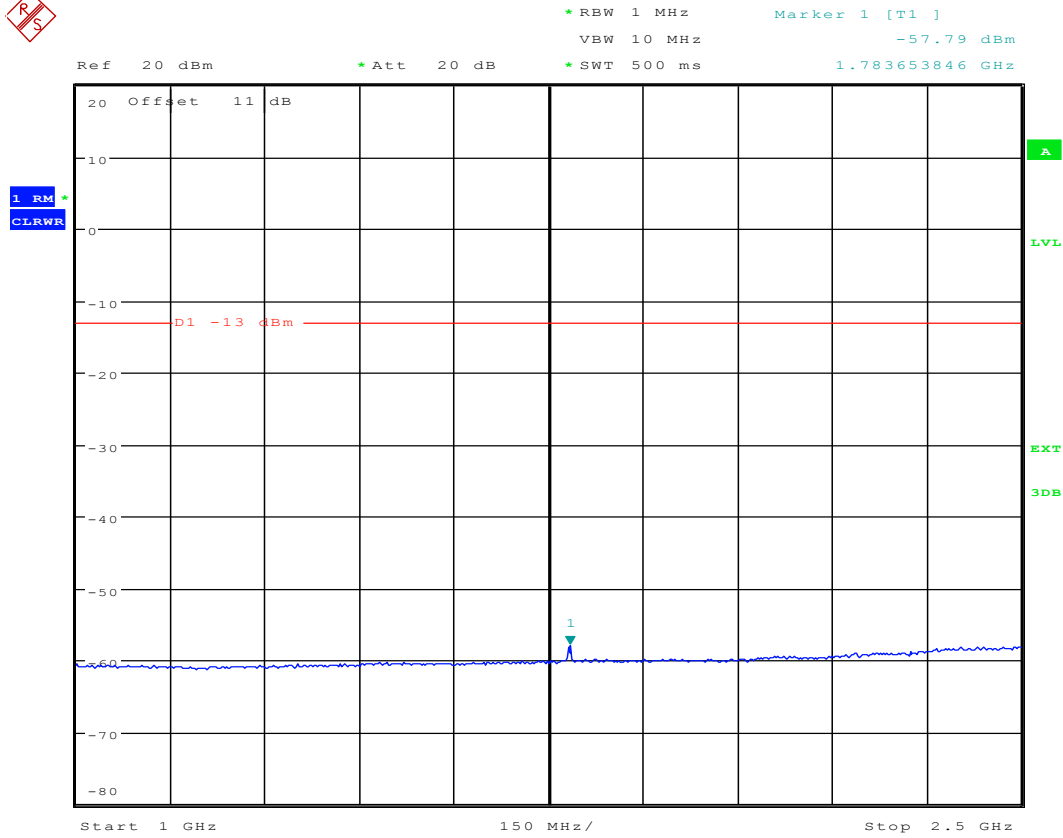
Date: 18.NOV.2015 16:36:26



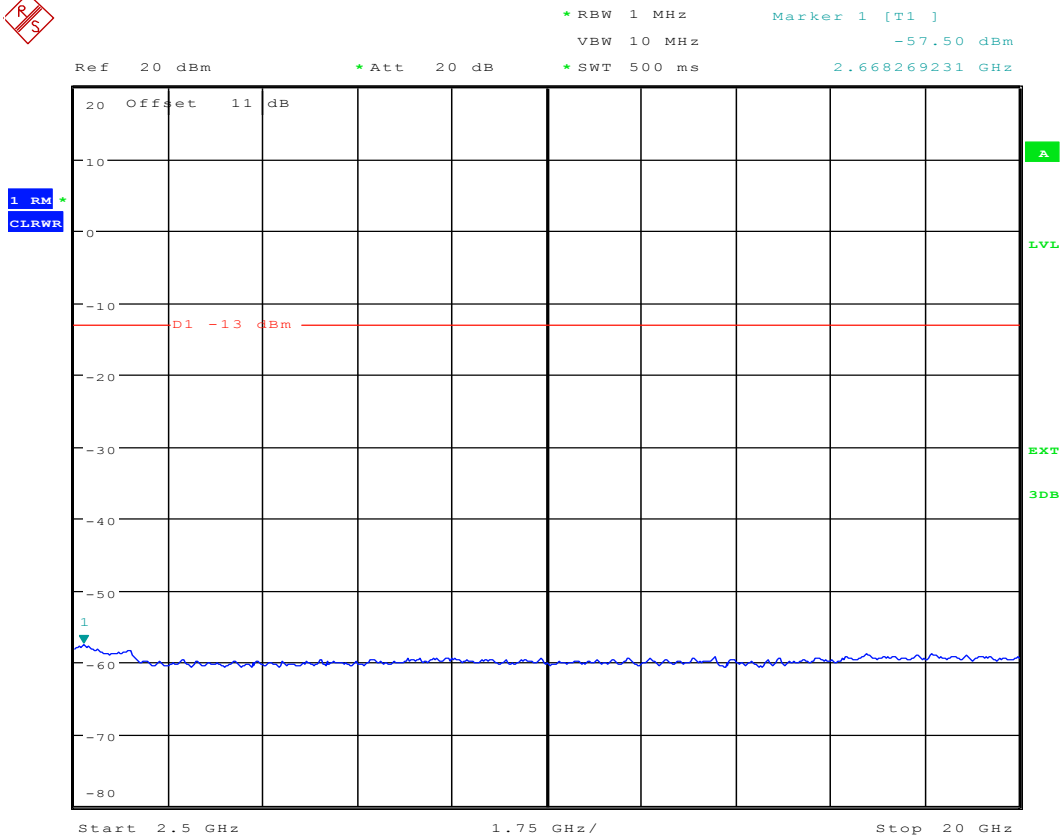
Date: 18.NOV.2015 16:37:09



Date: 18.NOV.2015 16:37:41



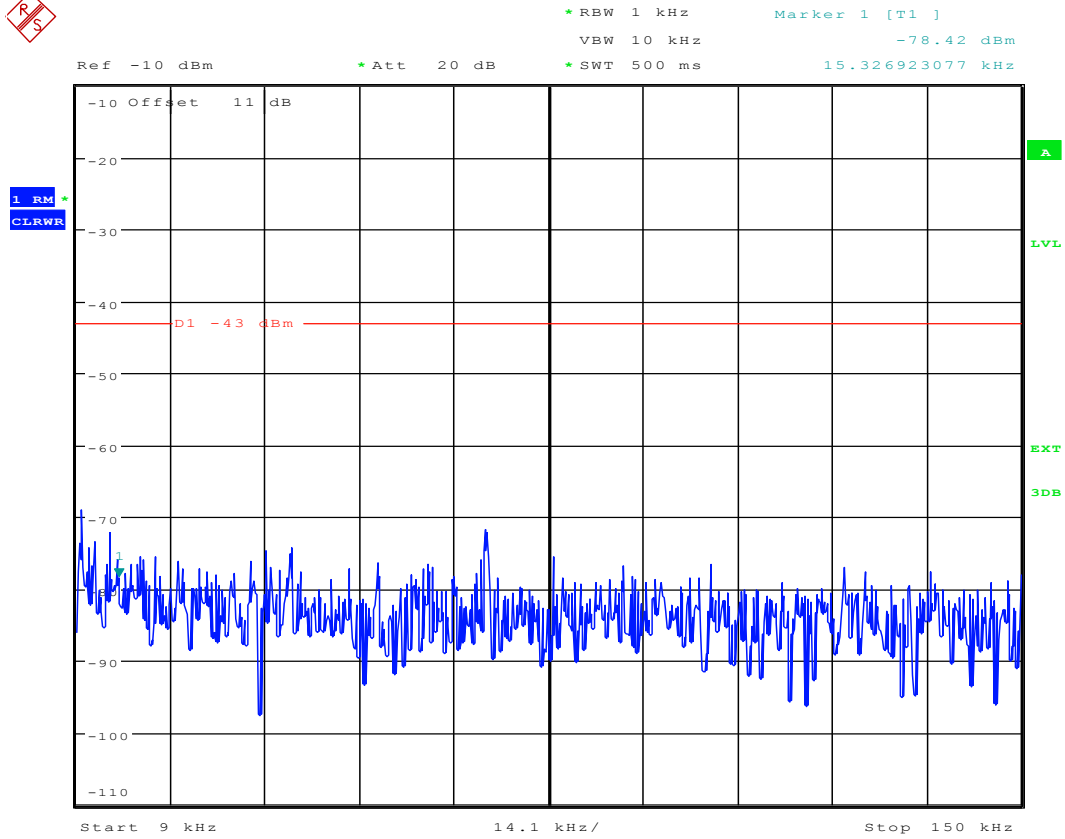
Date: 18.NOV.2015 16:38:02



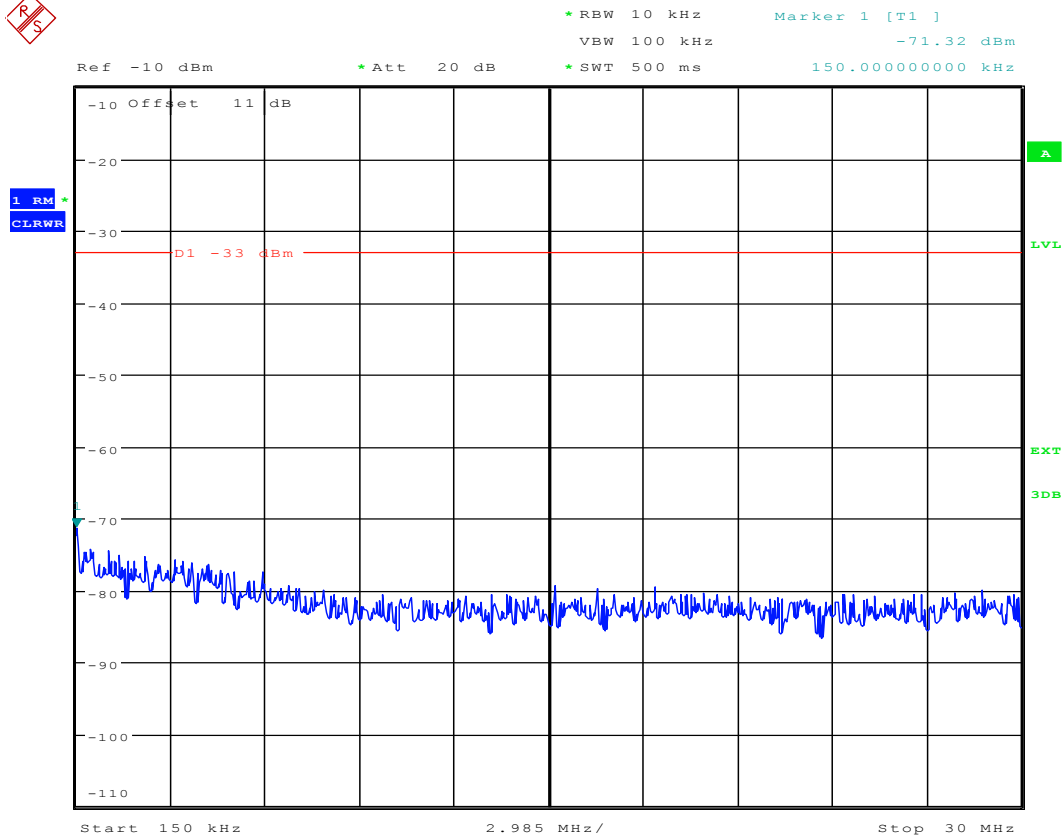
Date: 18.NOV.2015 16:38:20



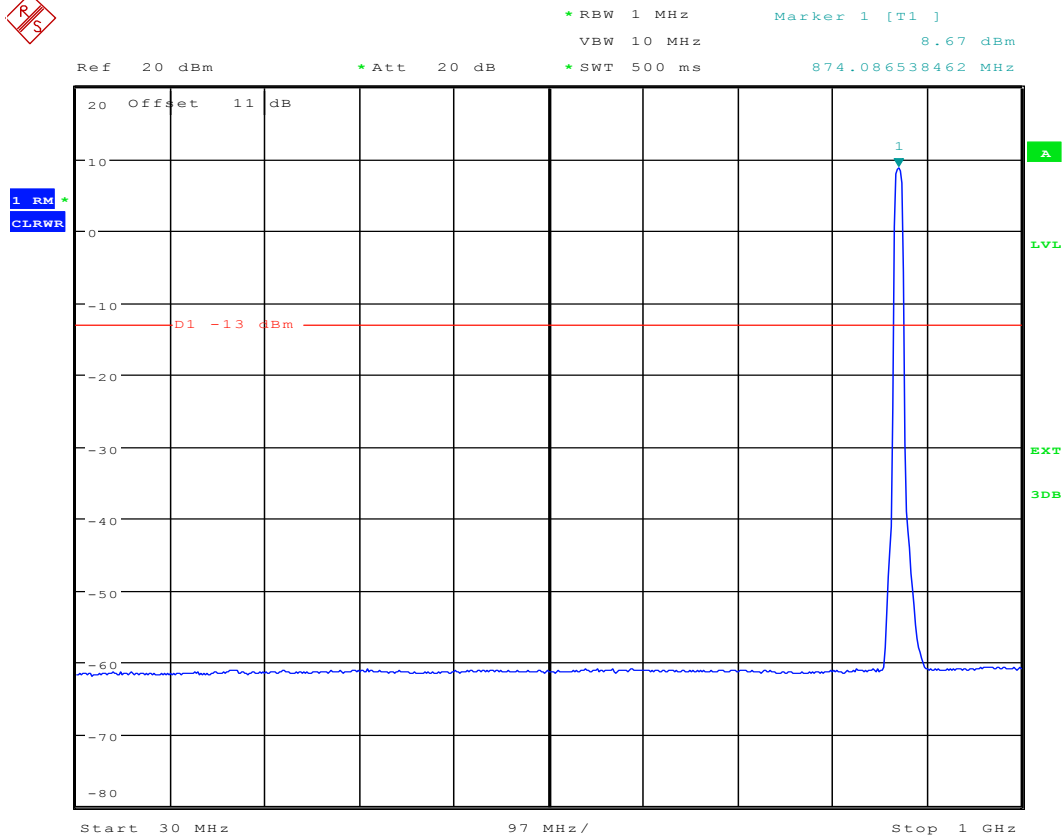
2.4 10M_B



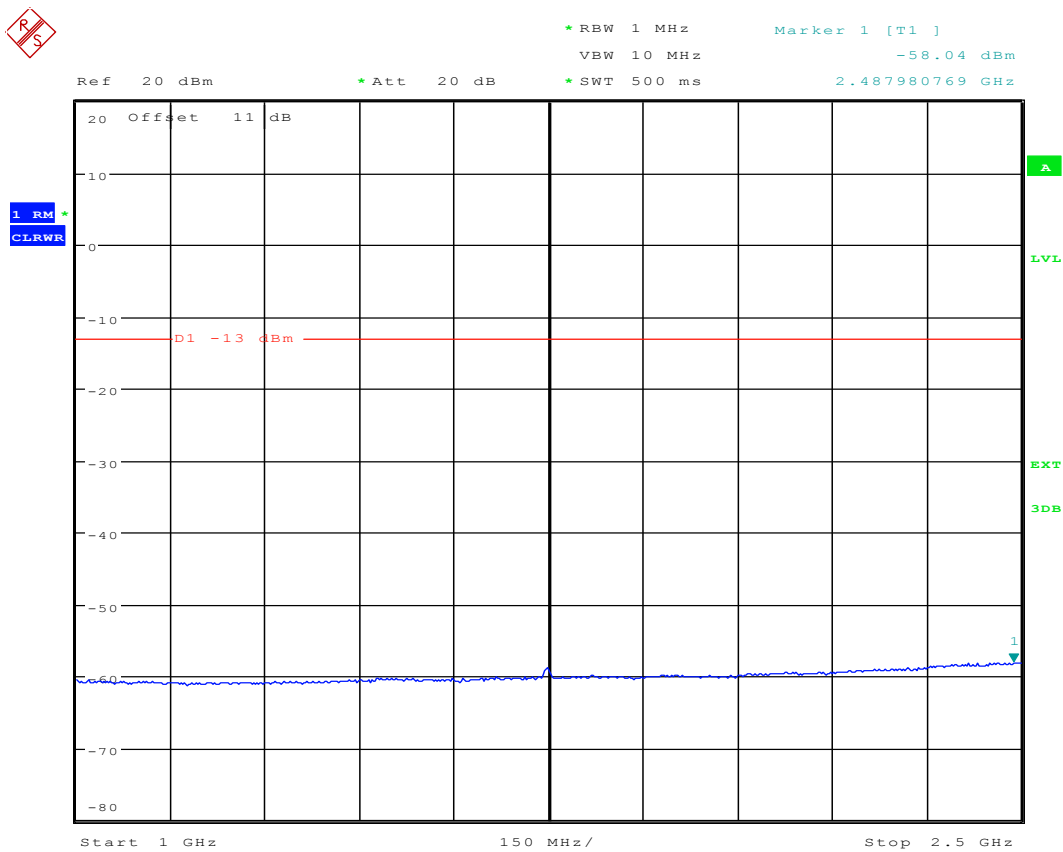
Date: 18.NOV.2015 16:41:00



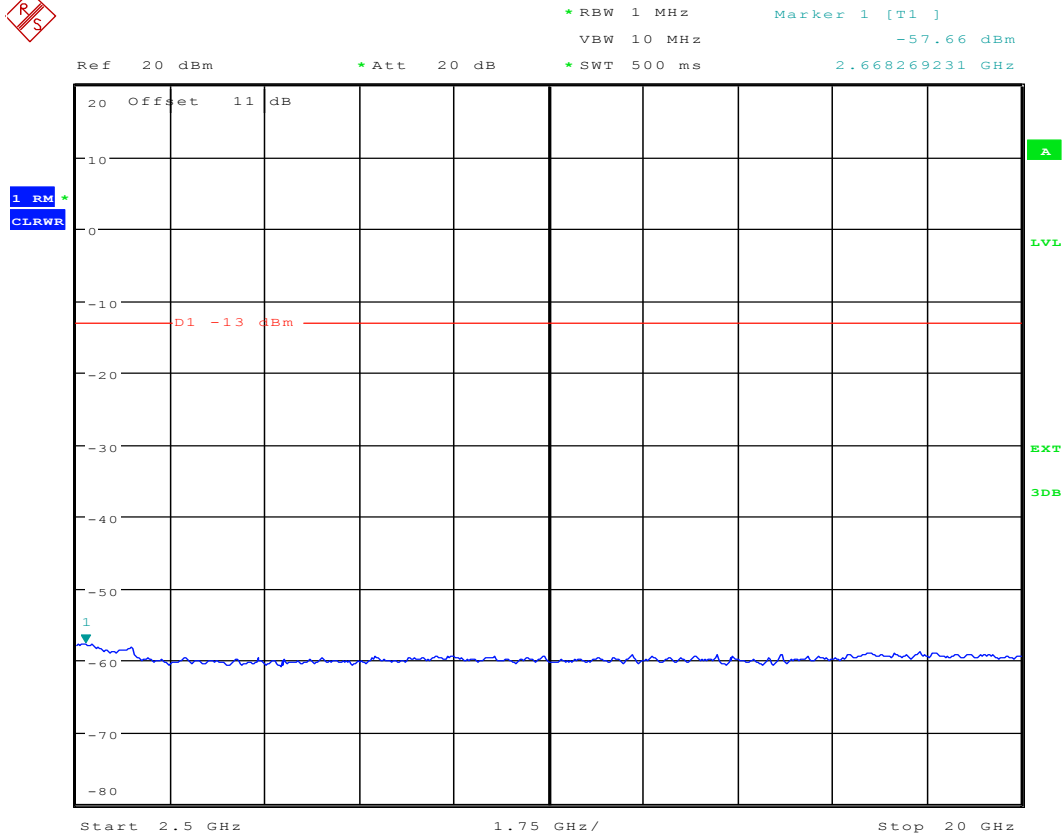
Date: 18.NOV.2015 16:40:29



Date: 18.NOV.2015 16:39:52



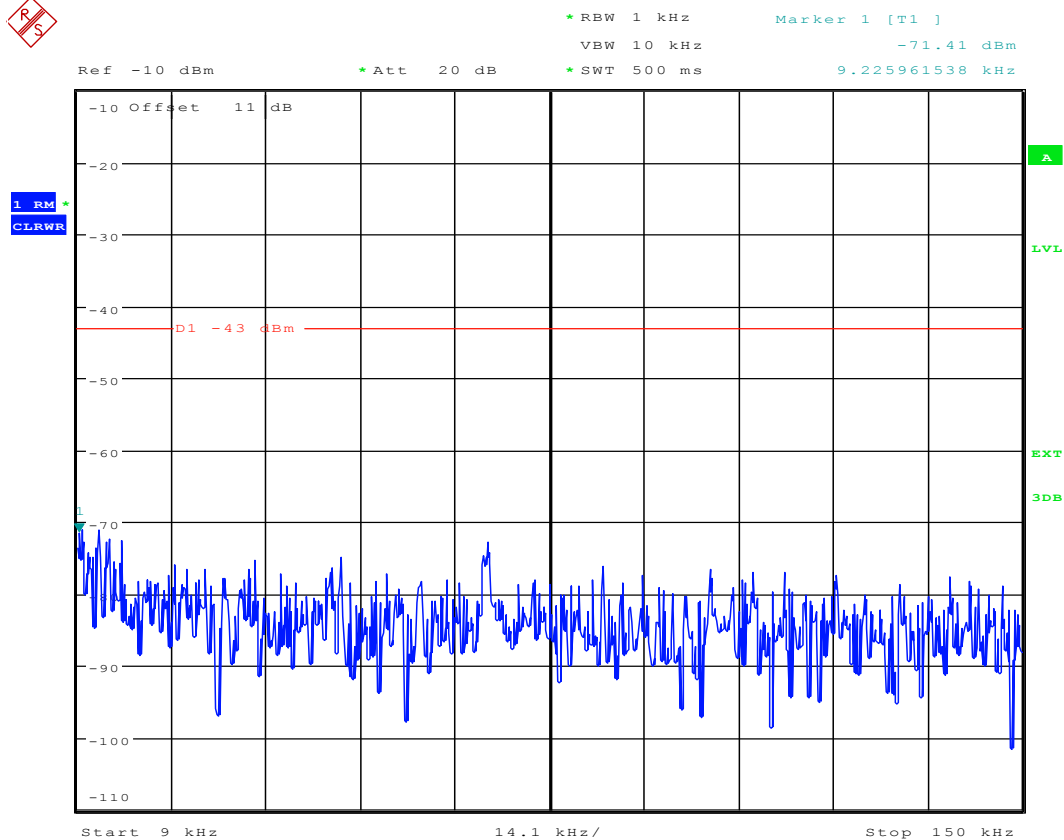
Date: 18.NOV.2015 16:39:29



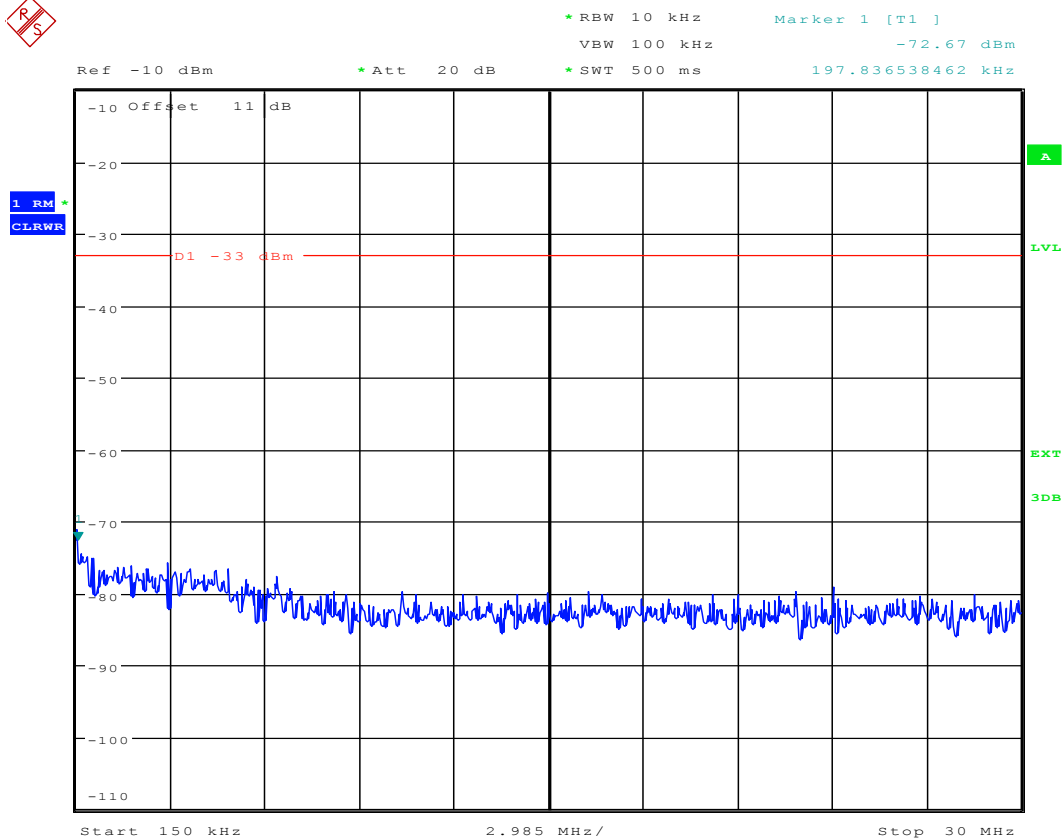
Date: 18.NOV.2015 16:39:08



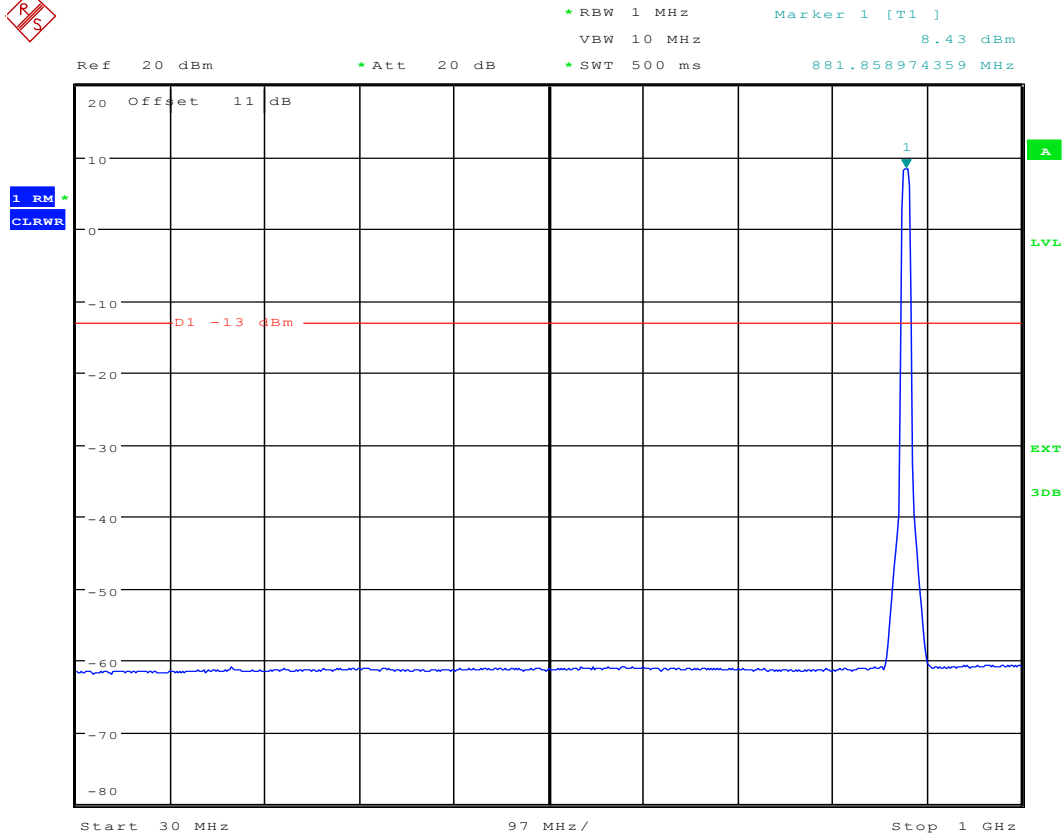
2.5 10M_M



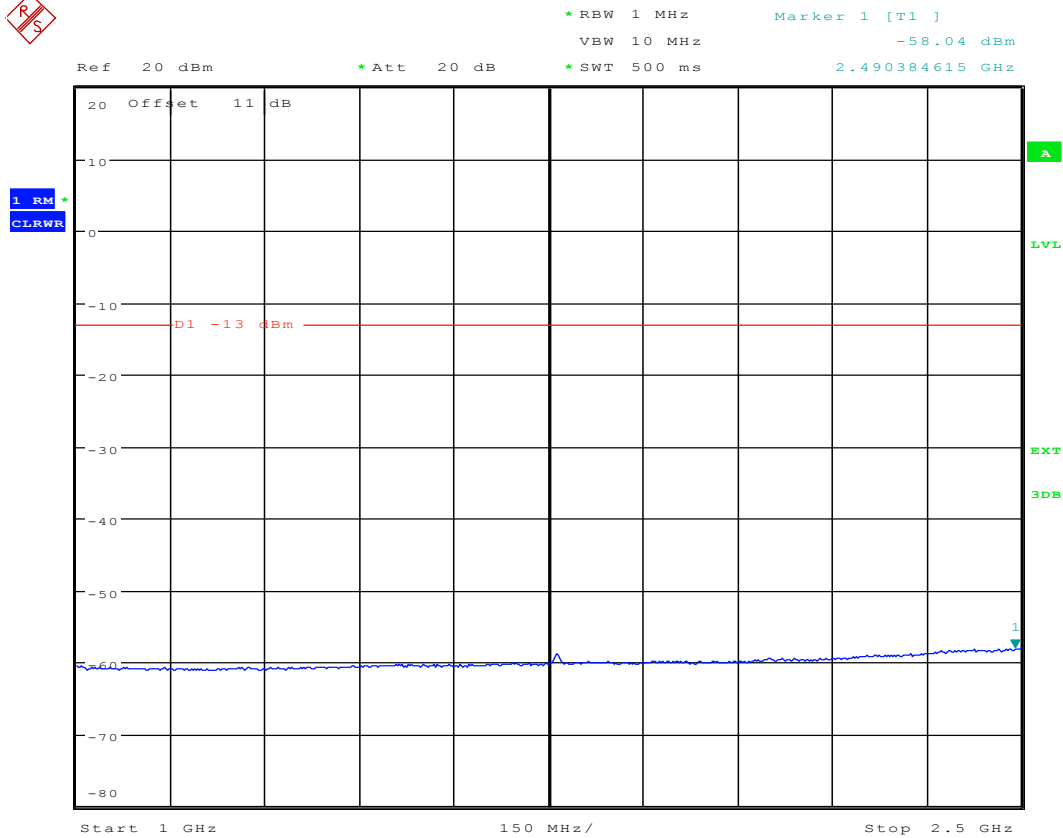
Date: 18.NOV.2015 16:41:39



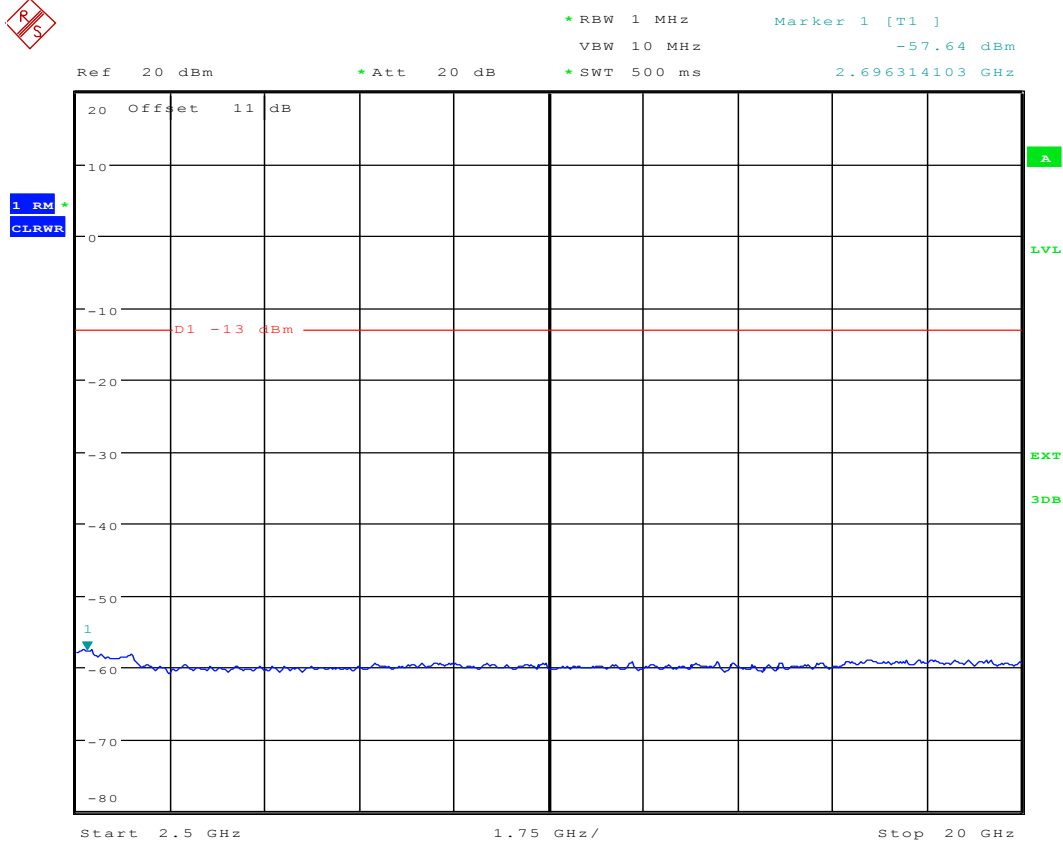
Date: 18.NOV.2015 16:42:41



Date: 18.NOV.2015 16:44:11

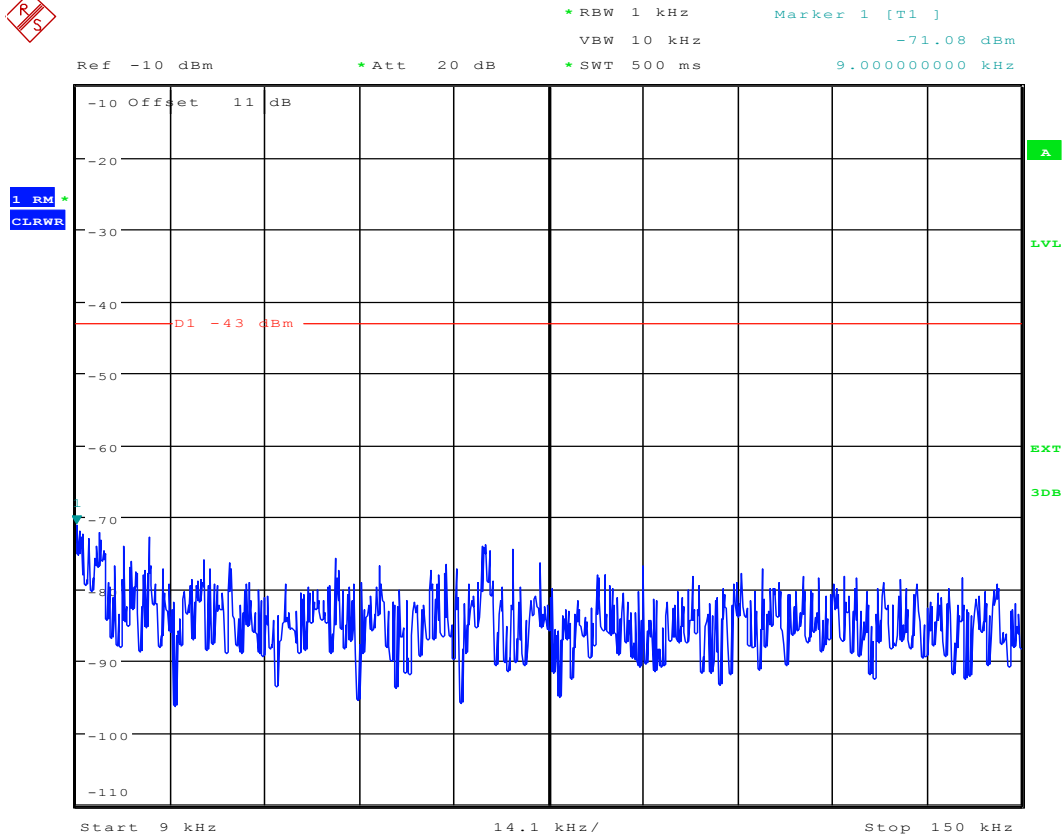


Date: 18.NOV.2015 16:44:51

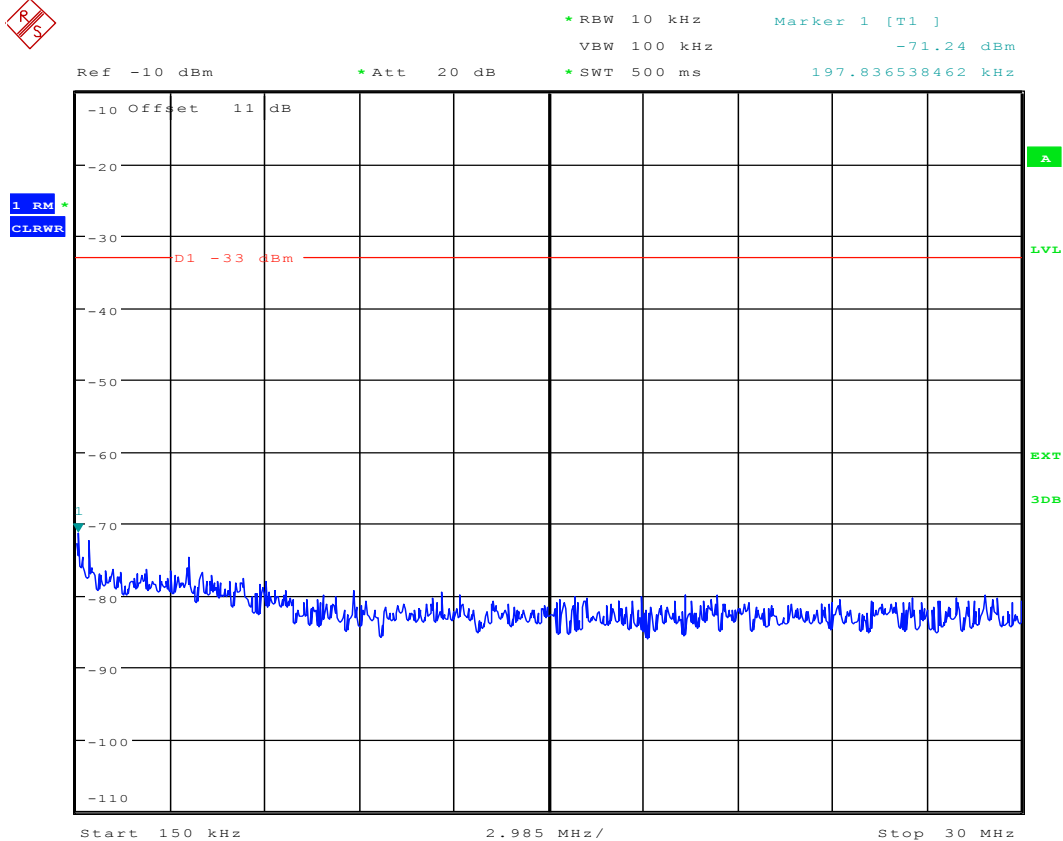


Date: 18.NOV.2015 16:45:18

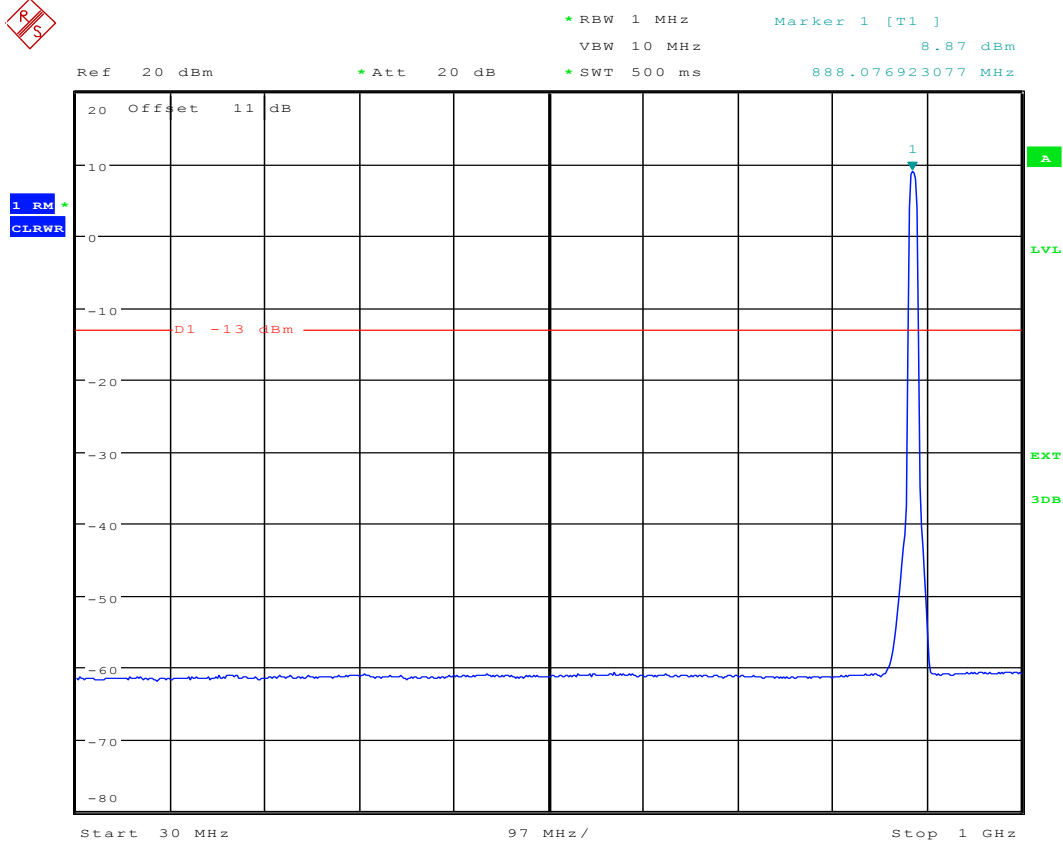
2.6 10M_T



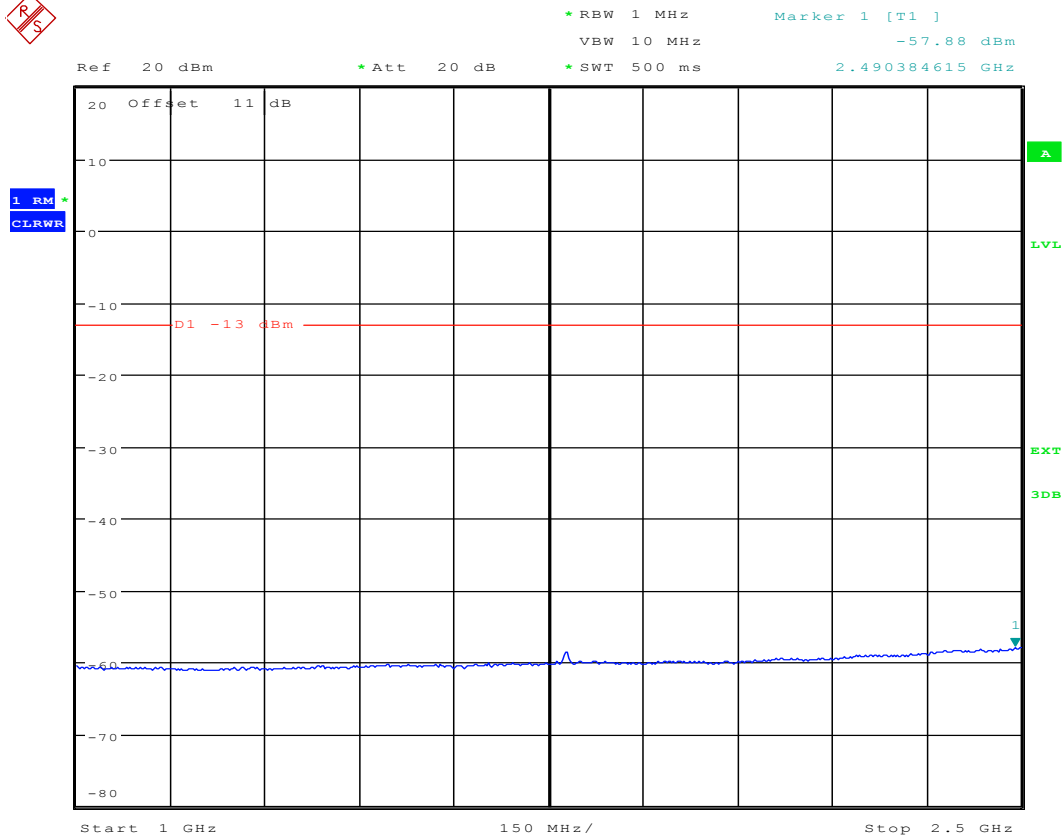
Date: 18.NOV.2015 16:49:33



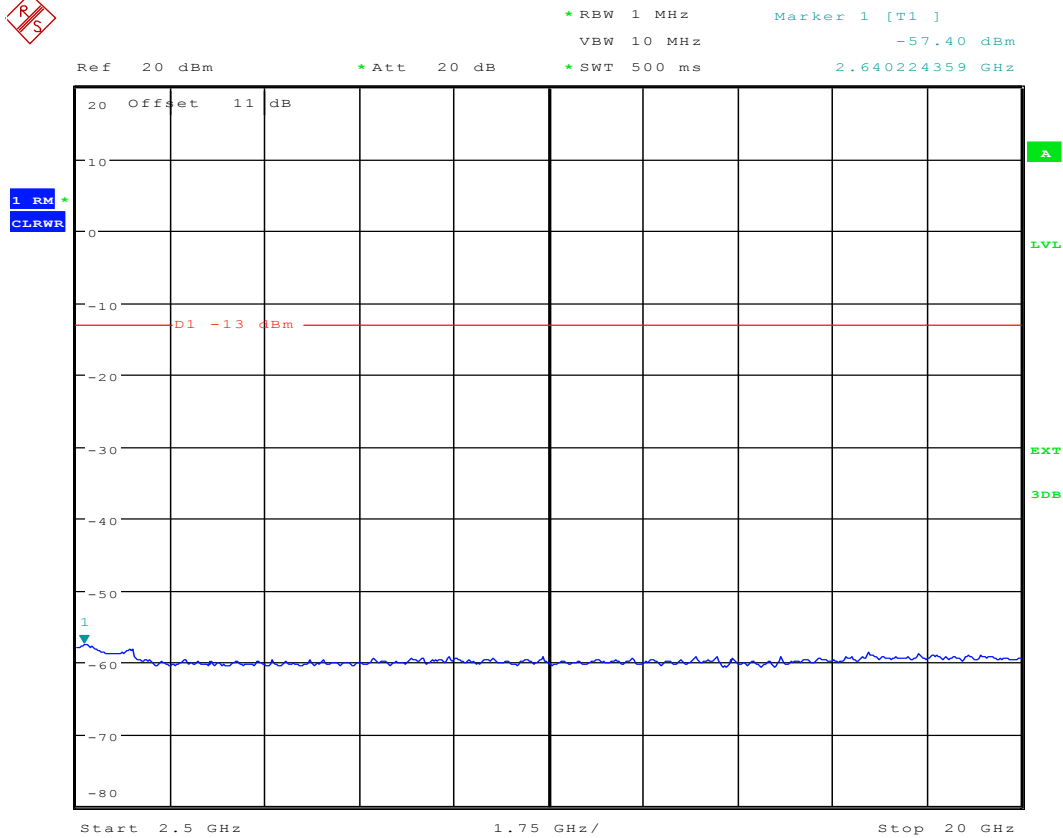
Date: 18.NOV.2015 16:48:52



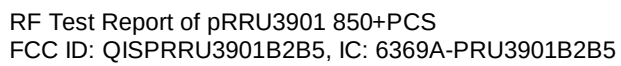
Date: 18.NOV.2015 16:48:10



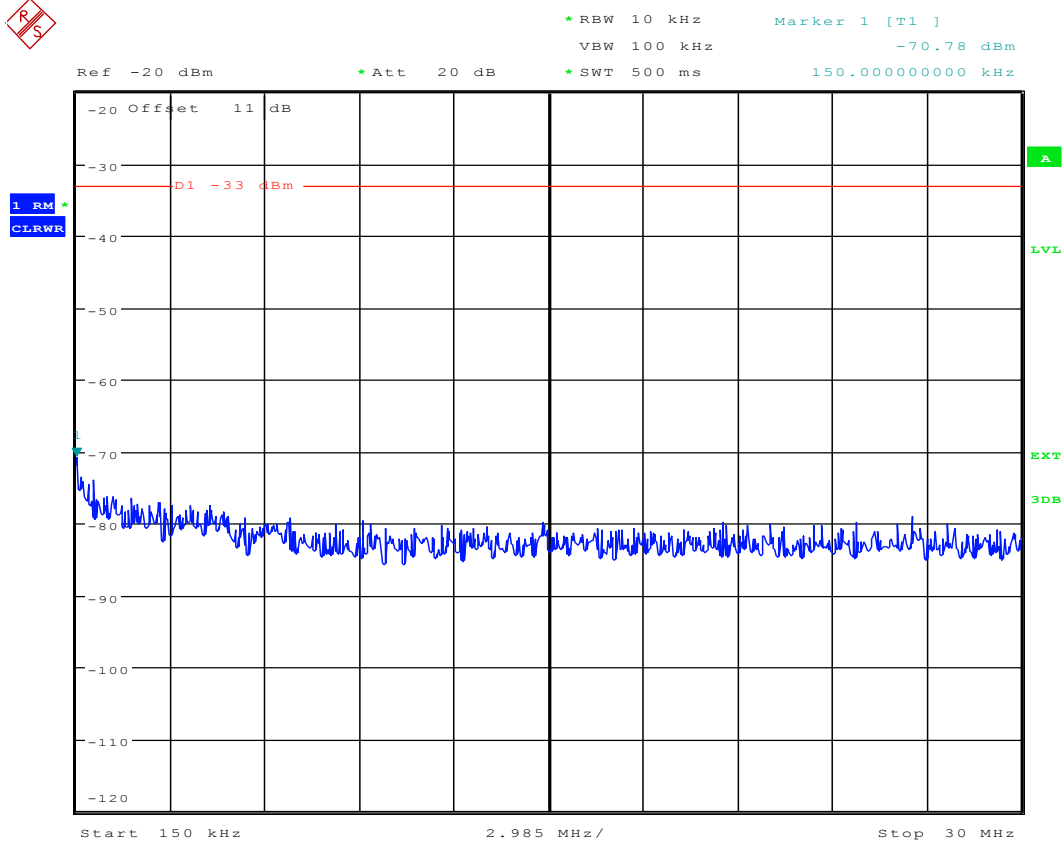
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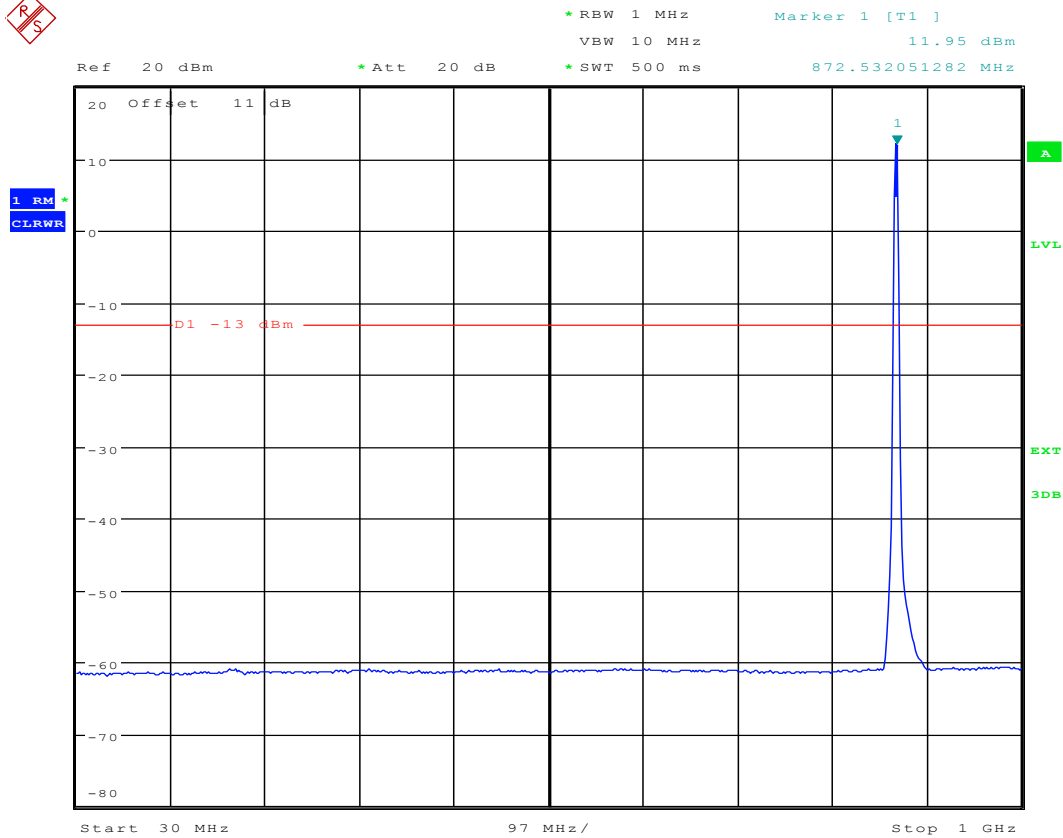
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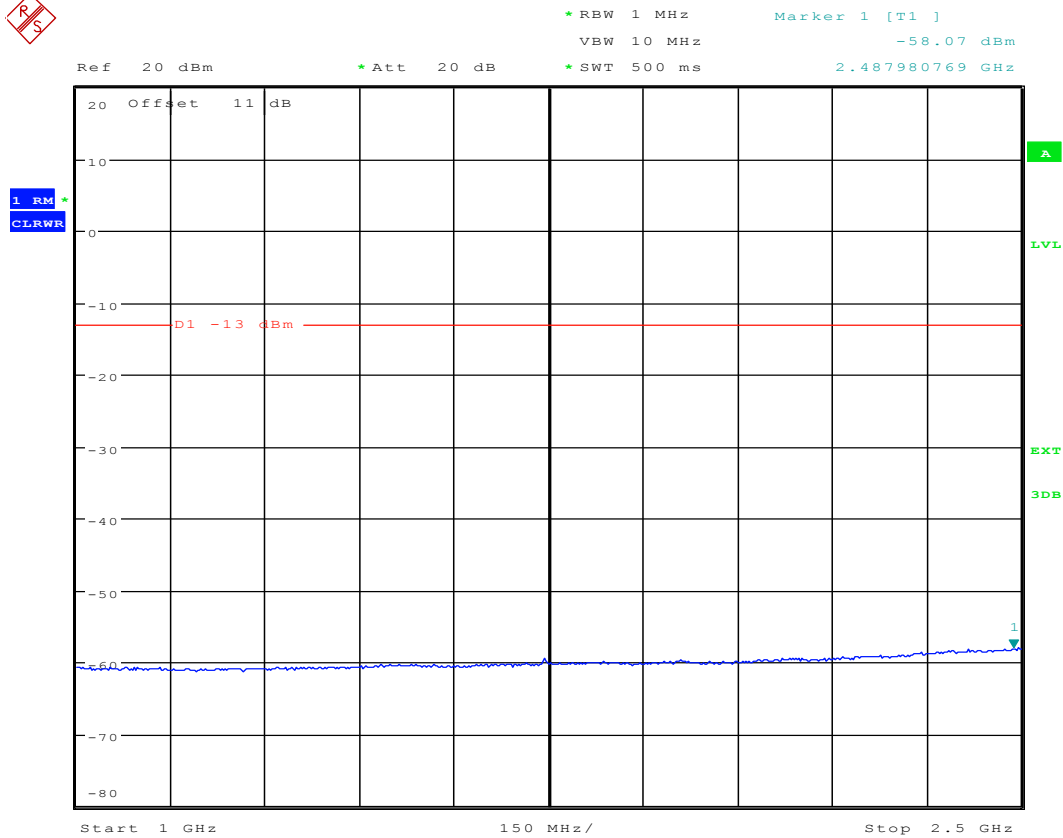
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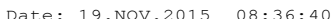
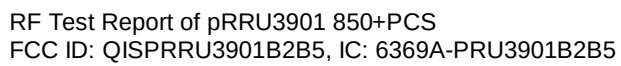
Date: 19.NOV.2015 08:35:15



Date: 20.NOV.2015 08:40:25

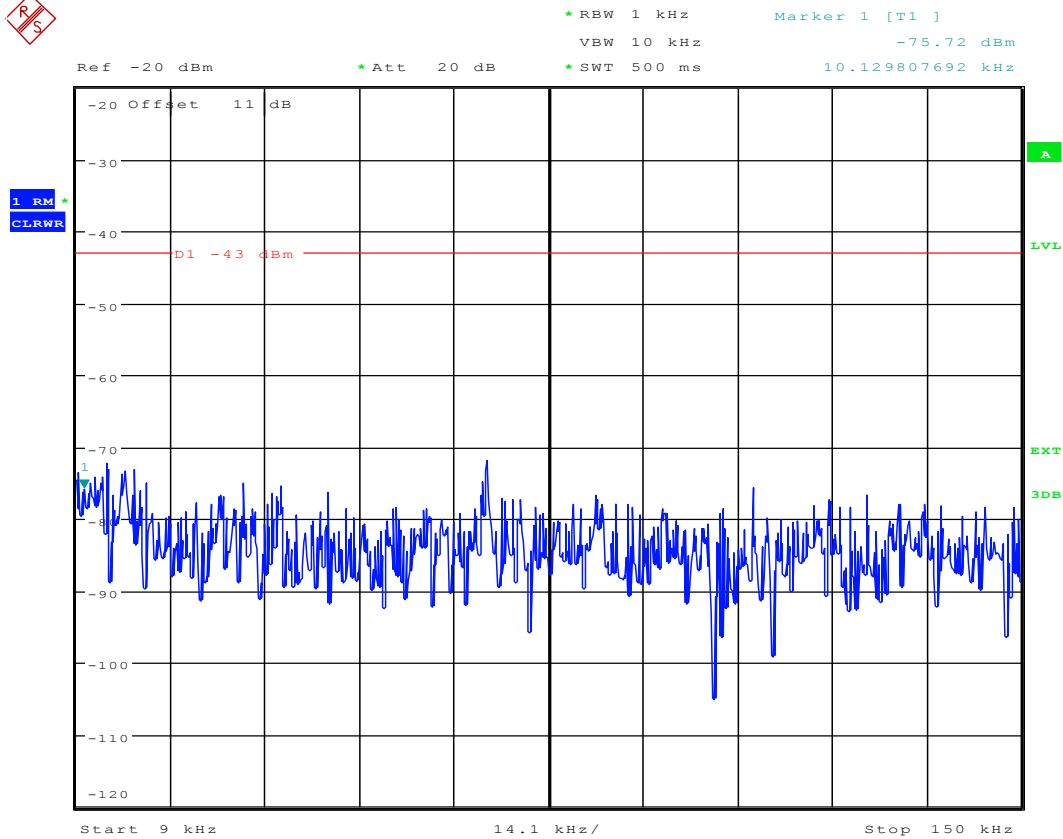


Date: 19.NOV.2015 08:36:24

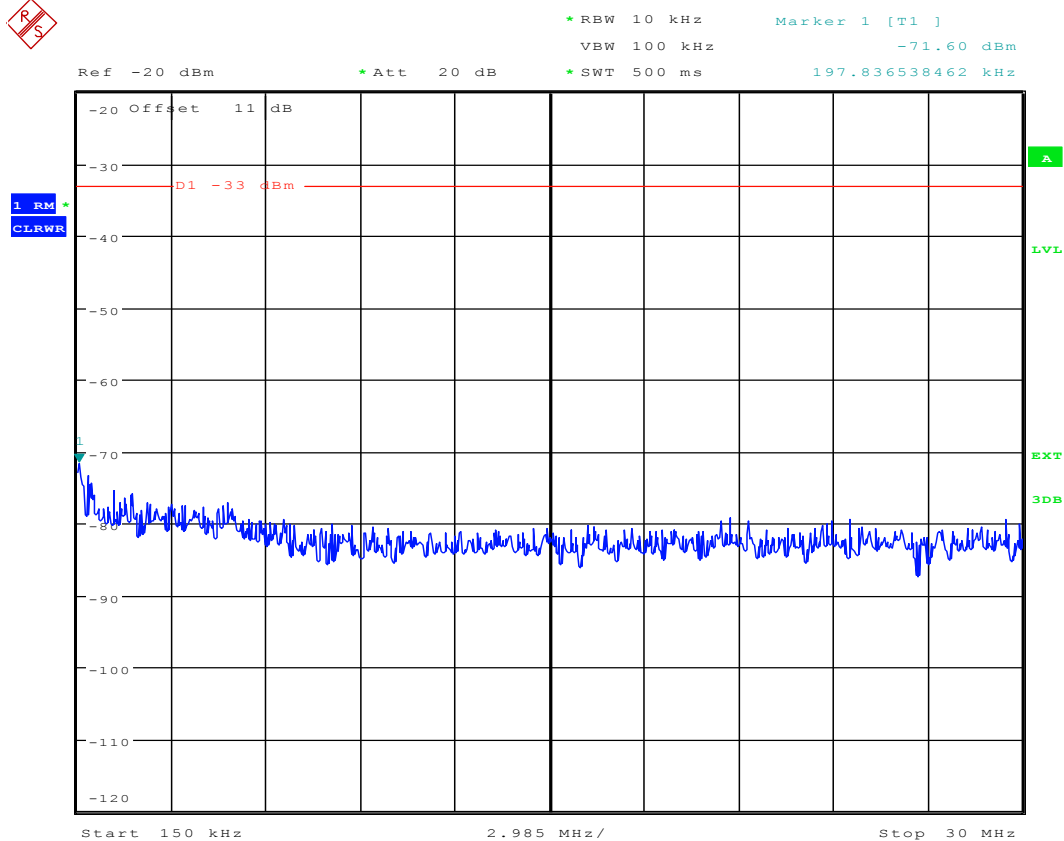




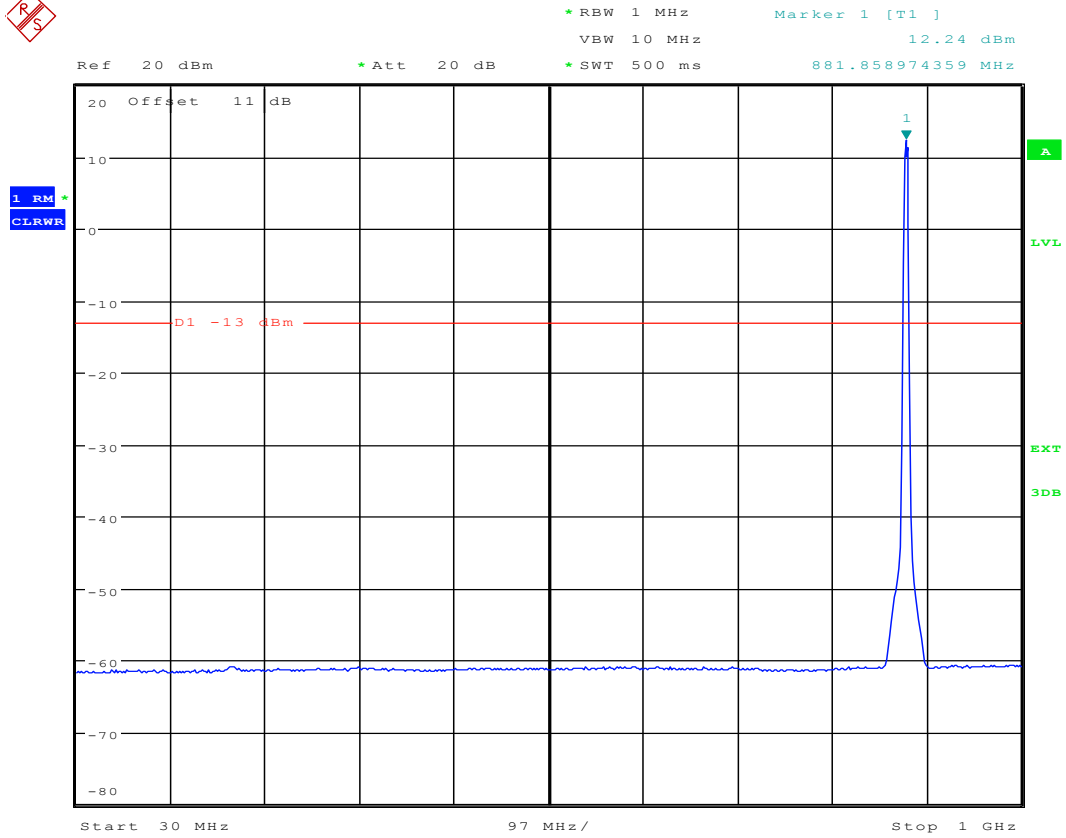
2.8 1U_M



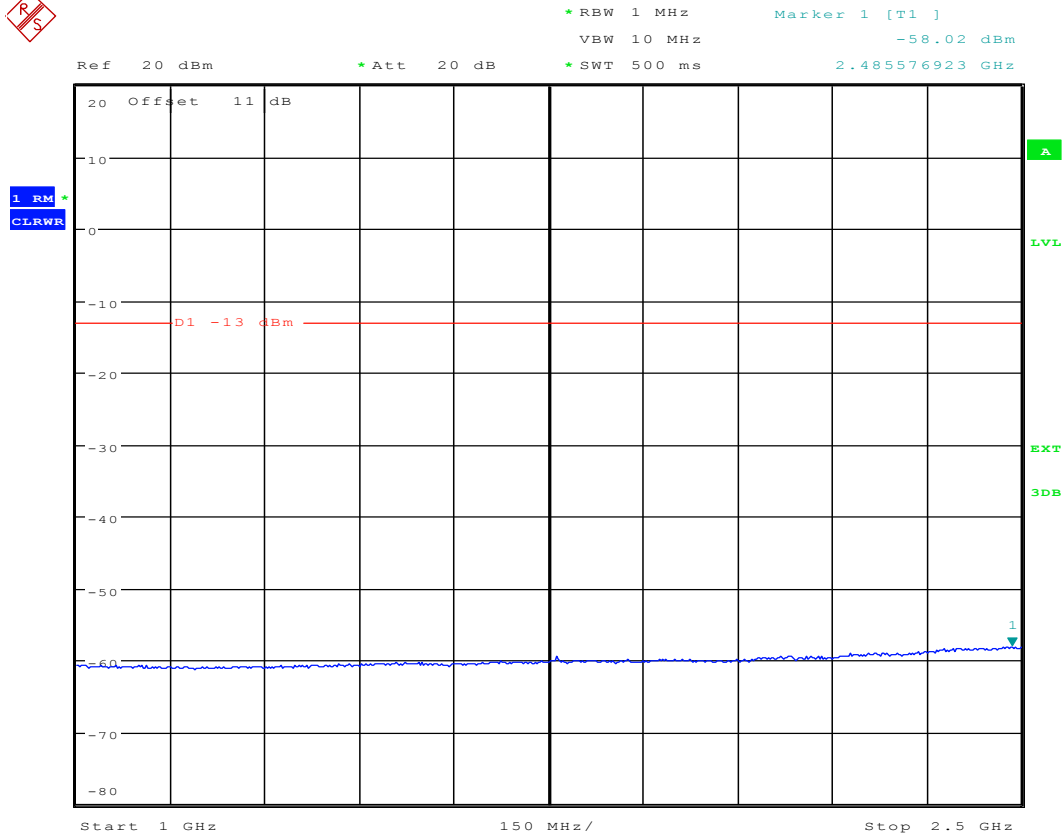
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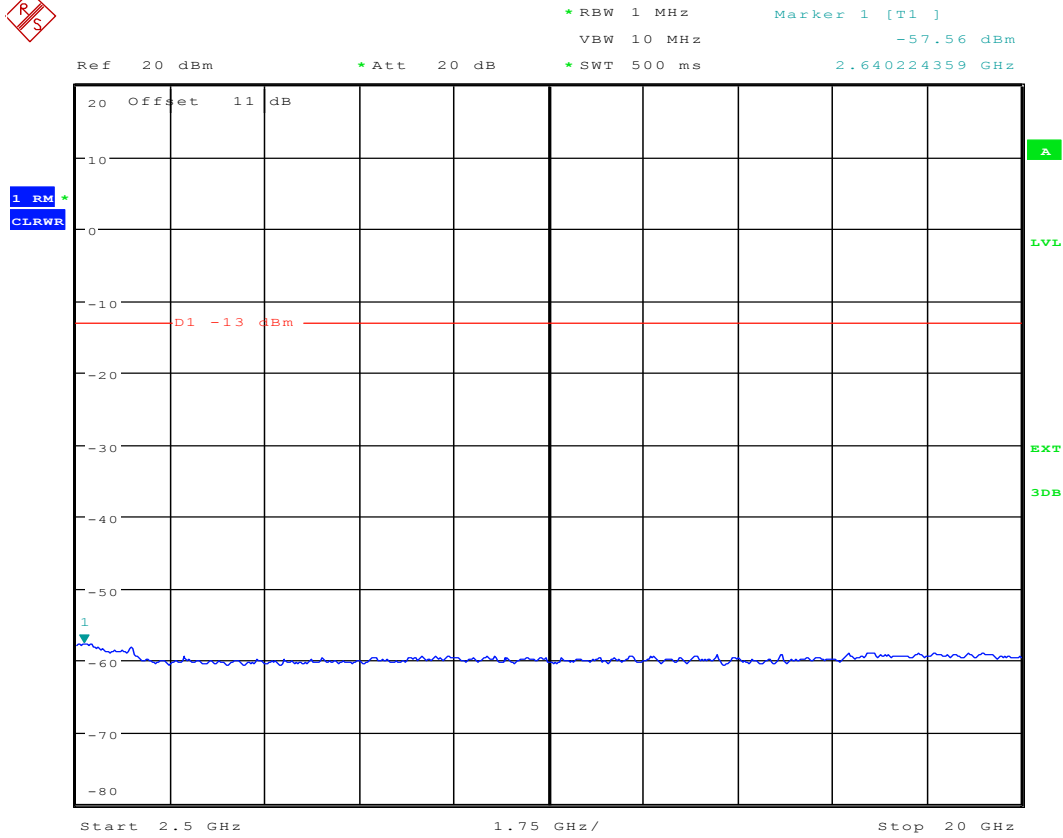
Date: 19.NOV.2015 08:40:29



Date: 20.NOV.2015 08:39:13

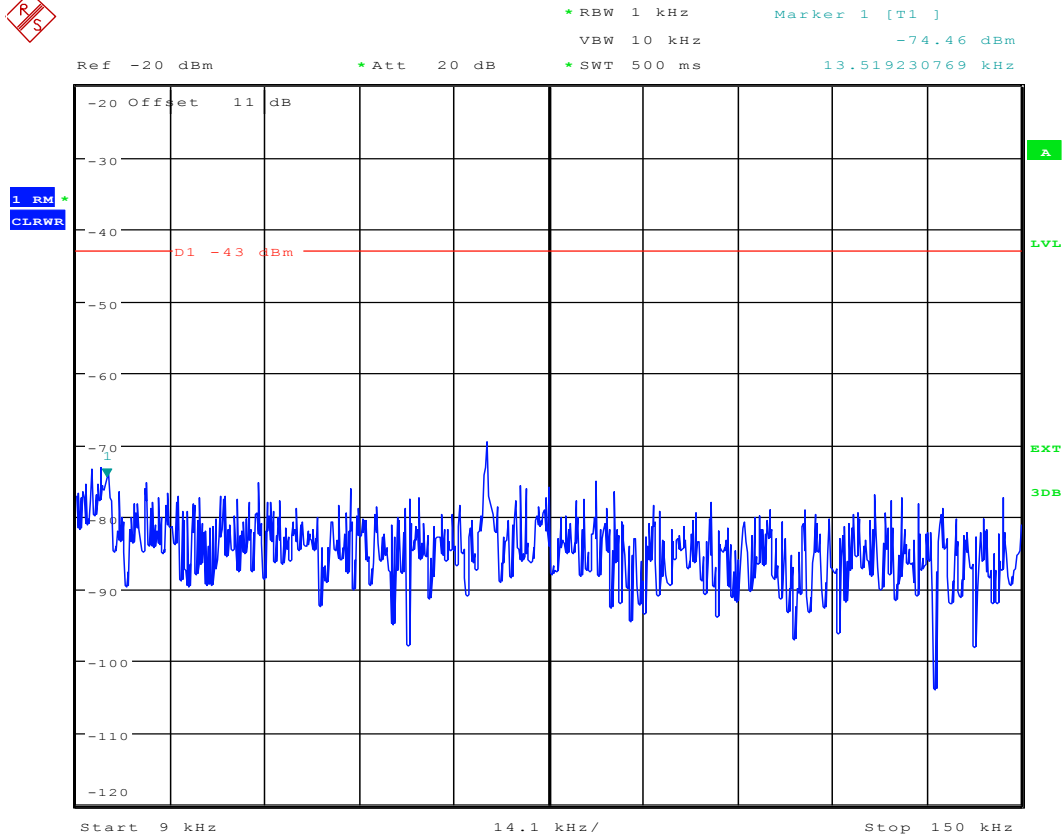


Date: 19.NOV.2015 08:39:38

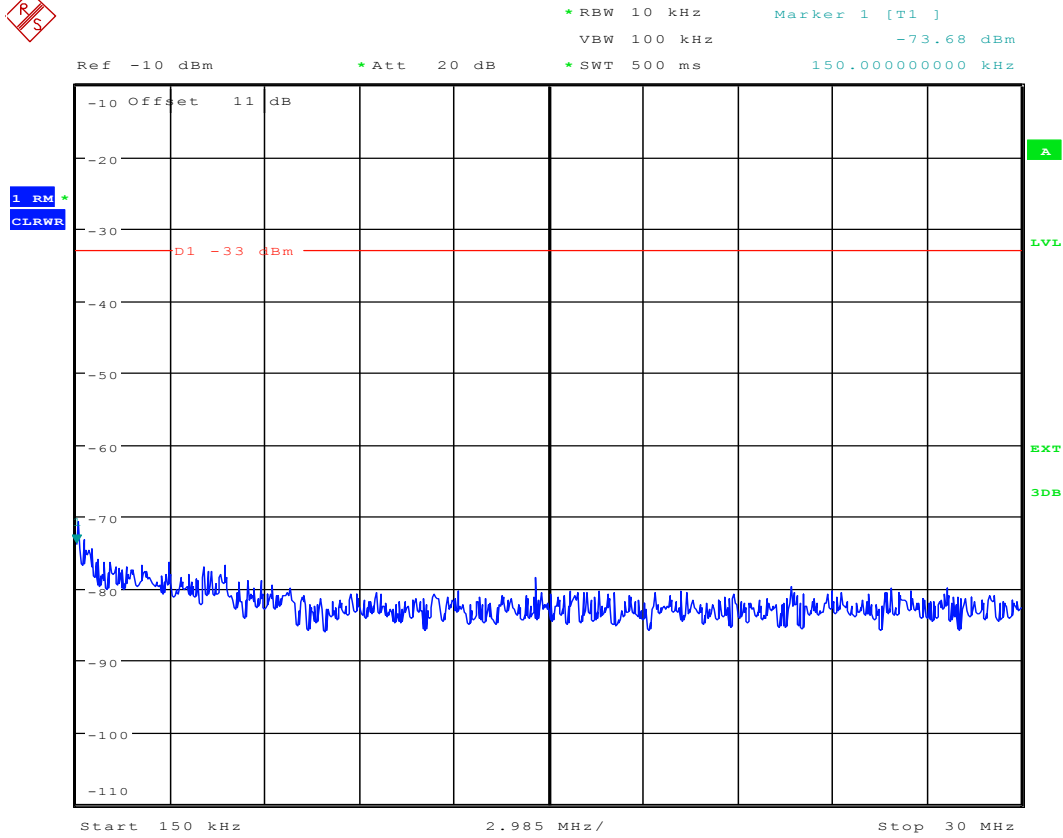


Date: 19.NOV.2015 08:39:17

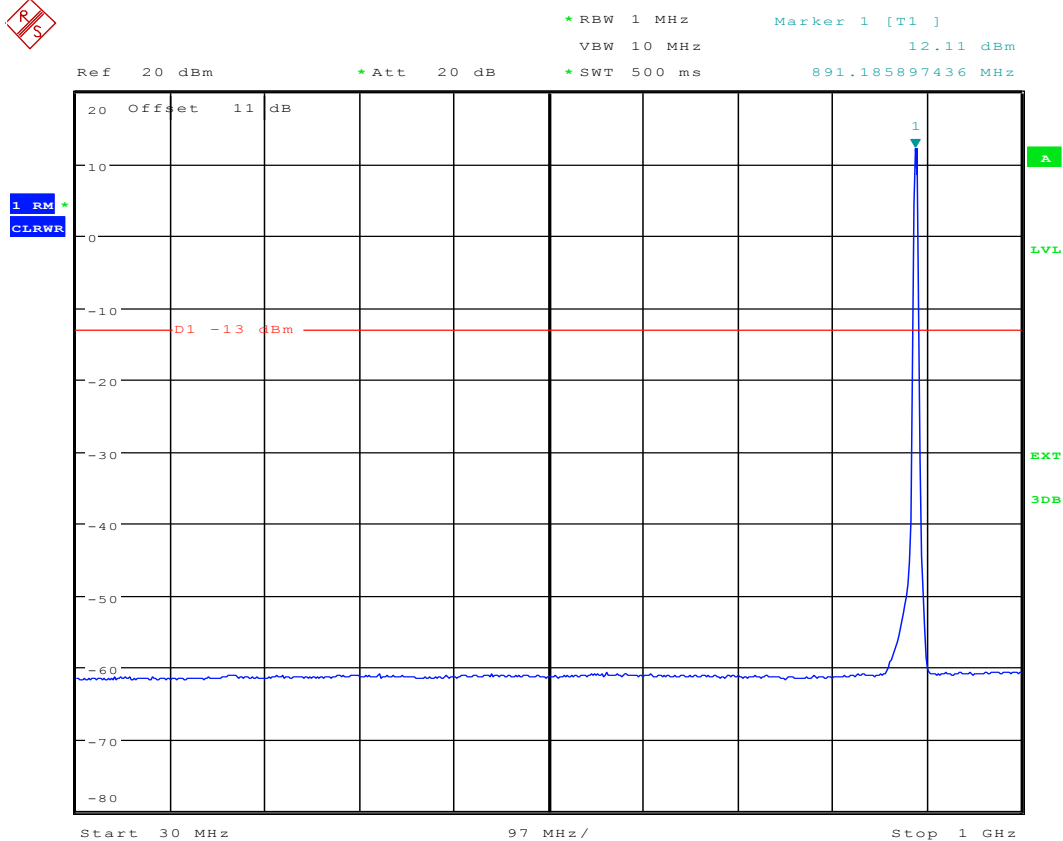
2.9 1U_T



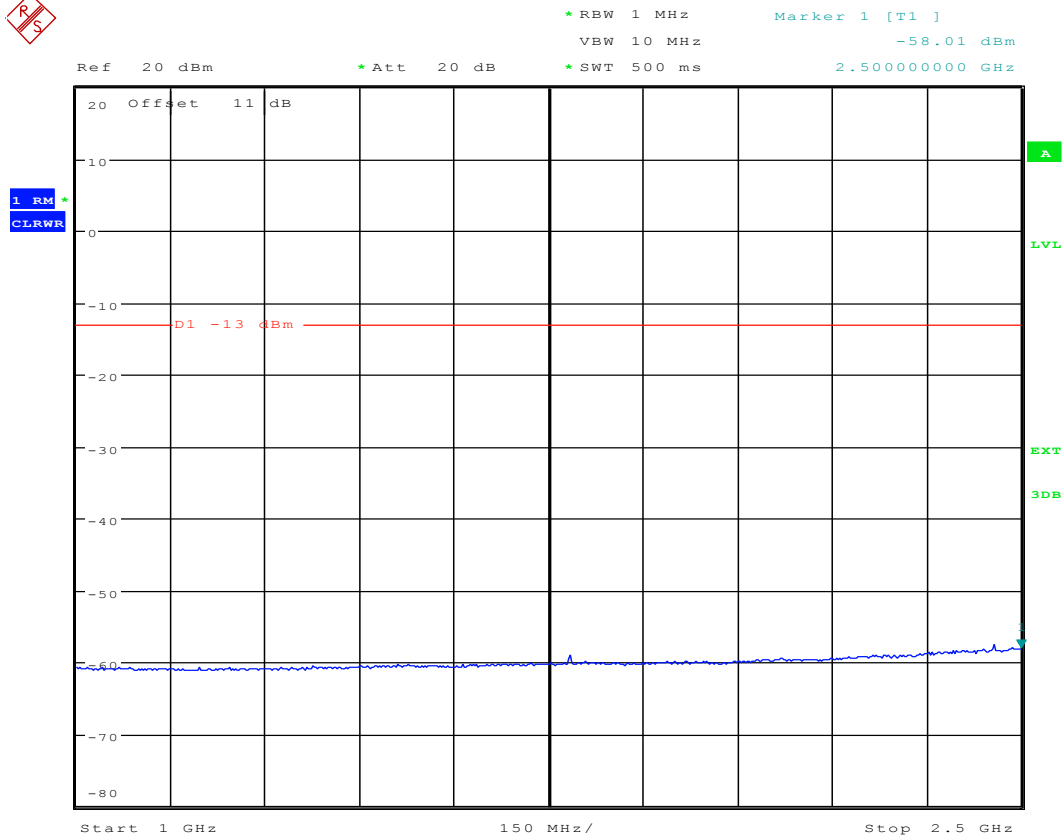
Date: 19.NOV.2015 08:42:17



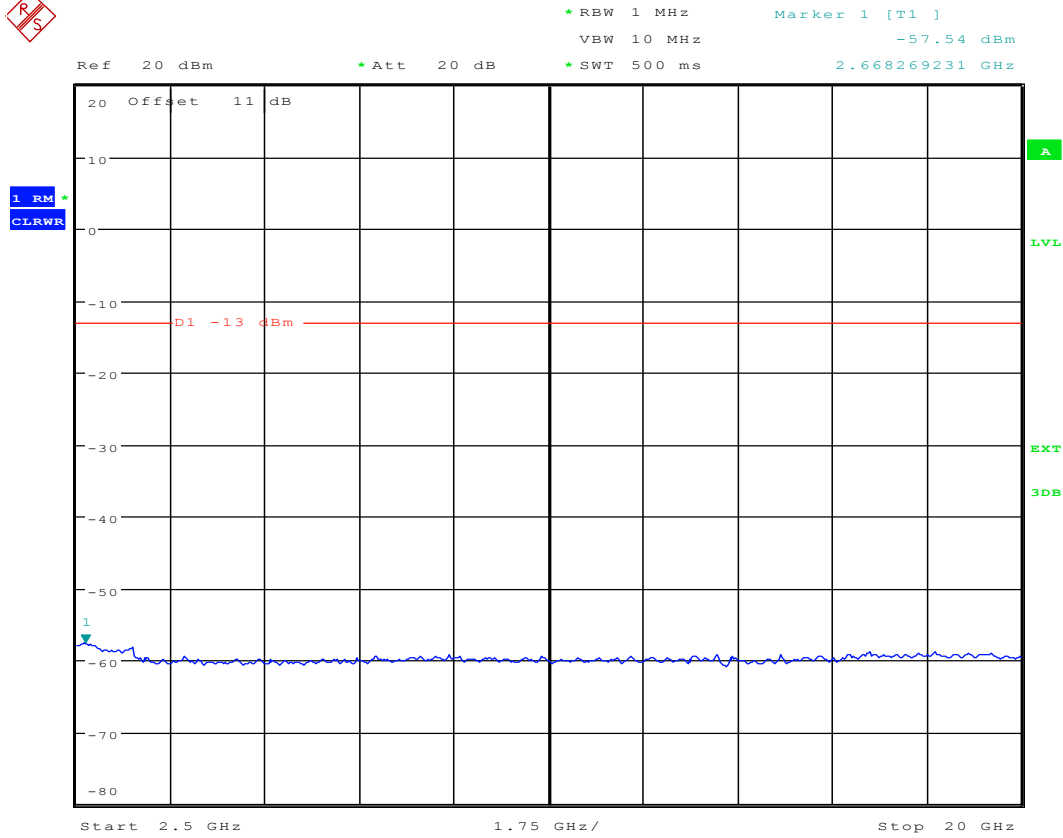
Date: 19.NOV.2015 08:43:46



Date: 20.NOV.2015 08:38:24



Date: 19.NOV.2015 08:44:44



Date: 19.NOV.2015 08:45:16



Appendix E1: Radiated (Spurious) Emissions

1 Result Table

EUT Conf.	Measured Curve Conformed to the Emission Limit?	Verdict
1U_M (Worst case)	Yes	Pass

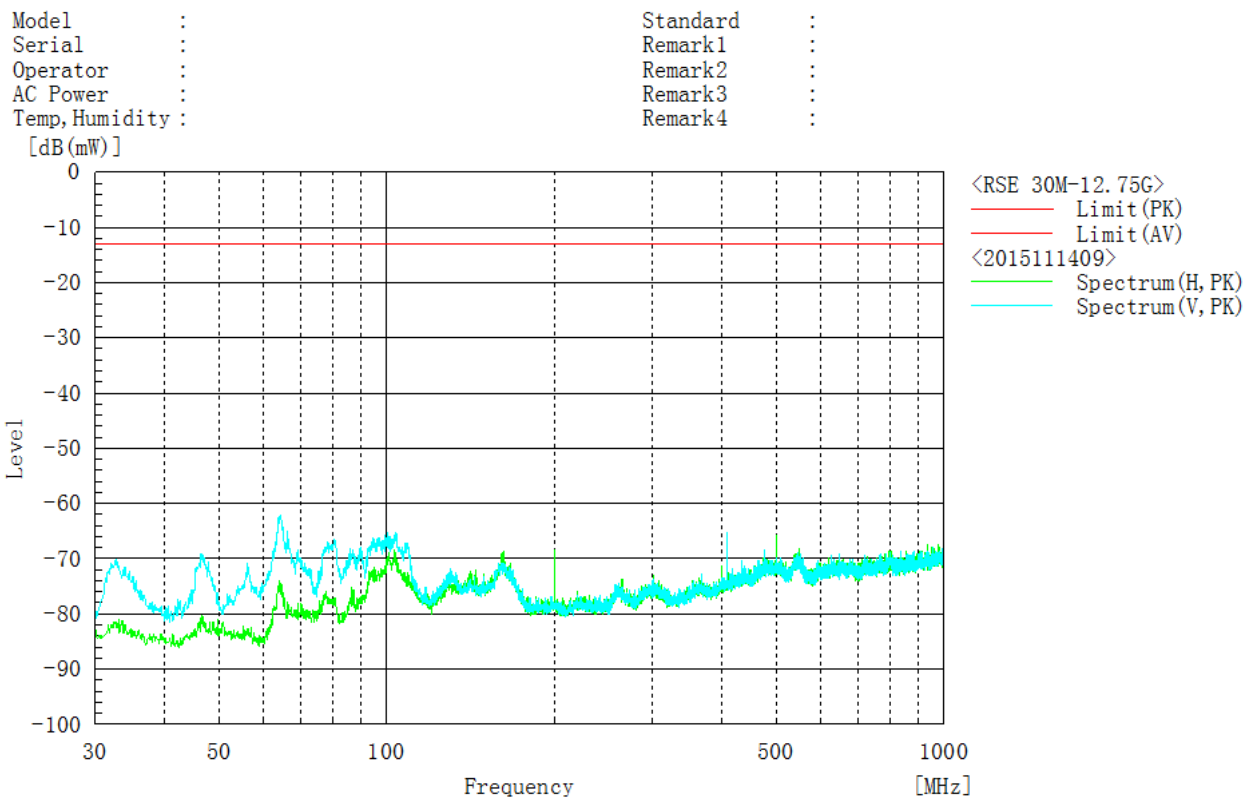
Note: The setting of analyzer is below

Frequency range	RBW	Detector
30MHz to 1GHz	1MHz	Peak
1GHz to 18GHz	1MHz	Peak

Note: the signal exceeding the limit line is the wanted signal.

2 Test Plot

2.1 30MHz-1GHz

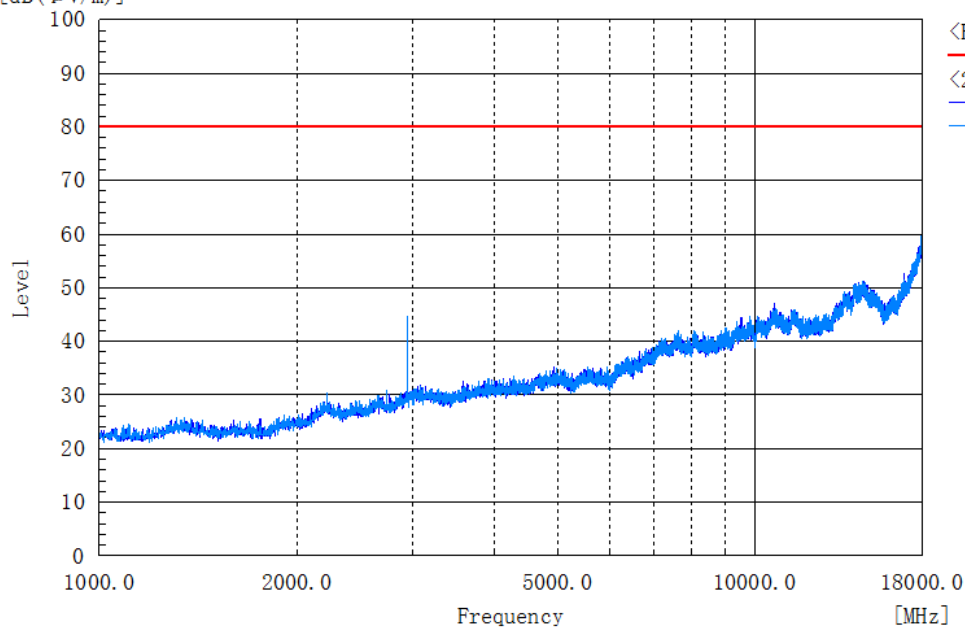




2.2 1GHz-18GHz

Model	:	Standard	:	RSE to RE_80.08dBuV_1G_40G.rli
Serial	:	Remark1	:	
Operator	:	Remark2	:	
AC Power	:	Remark3	:	
Temp, Humidity	:	Remark4	:	

[dB(μV/m)]





Appendix F1: Frequency Stability

1 Result Table

1.1 Frequency Error

(1) Frequency Error vs. Temperature:

EUT Conf.	Voltage	Temperature	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Verdict
5M_M	100%	-30 °C	-3.82	-0.00433	-0.00284	Pass
		-20 °C	-2.10	-0.00238	-0.00088	Pass
		-10 °C	-1.67	-0.00189	-0.00040	Pass
		0 °C	-3.74	-0.00424	-0.00275	Pass
		+10 °C	-1.68	-0.00191	-0.00041	Pass
		+20 °C	-1.32	-0.00150	---	Pass
		+30 °C	-2.16	-0.00245	-0.00095	Pass
		+40 °C	-2.33	-0.00264	-0.00115	Pass
		+50 °C	-1.81	-0.00205	-0.00056	Pass

(2) Frequency Error vs. Voltage:

EUT Conf.	Temperature	Voltage	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Verdict
5M_M	+20 °C	85 %	-2.69	-0.00305	-0.00155	Pass
		100 %	-1.32	-0.00150	---	Pass
		115 %	-1.42	-0.00161	-0.00011	Pass

1.2 Frequency Range

(Not applicable)



2 Test Plot

NOTE: Only the test plots for the measurements of Frequency Range are supplied.

(Not applicable)



Appendix G1: Receiver Spurious Emissions



1 Result Table

(Not applicable)

2 Test Plot

(Not applicable)

END