



Appendix A: 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]	Verdict
1L5M_B	19.75	Pass
1L5M_M	19.78	Pass
1L5M_T	19.86	Pass
1L10M_B	19.73	Pass
1L10M_M	19.58	Pass
1L10M_T	19.70	Pass
1U_B	19.85	Pass
1U_M	19.88	Pass
1U_T	19.92	Pass
2U_B	16.84,16.95	Pass
2U_M	16.78,16.87	Pass
2U_T	16.85,16.88	Pass
1U1L5M_B	16.75,16.73	Pass
1U1L5M_M	16.78,16.82	Pass
1U1L5M_T	16.80,16.83	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
1L5M_B	8.46	Pass
1L5M_M	8.97	Pass
1L5M_T	8.59	Pass



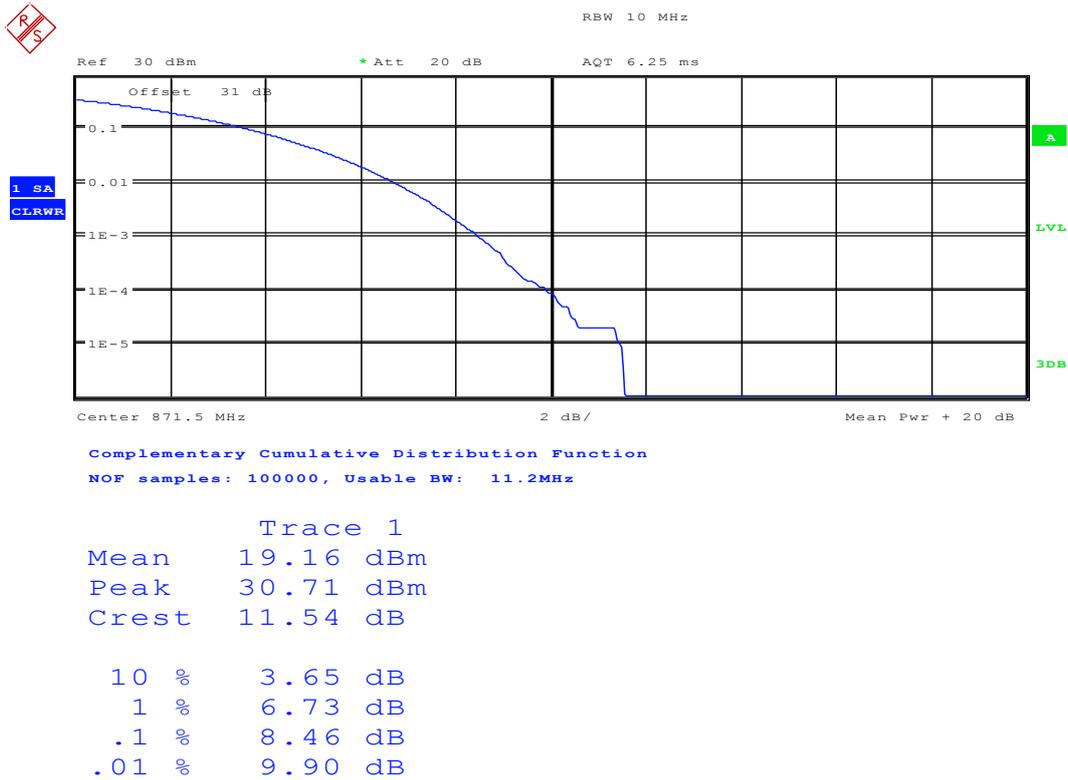
EUT Conf.	Peak-to-Average Ratio [dB]	Verdict
1L10M_B	8.62	Pass
1L10M_M	8.65	Pass
1L10M_T	8.59	Pass
1U_B	7.66	Pass
1U_M	7.72	Pass
1U_T	7.66	Pass

2 Test Plot

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

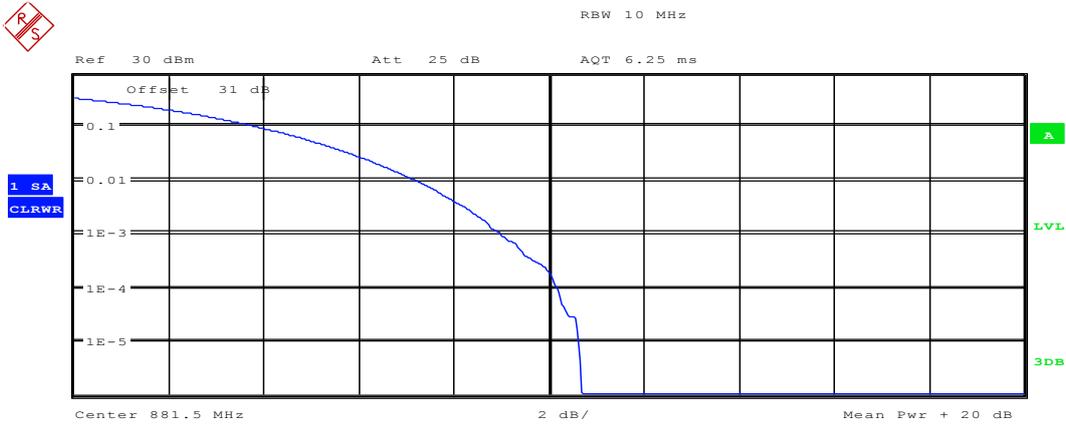
2.1 Peak-to-Average Ratio

2.1.1 1L5M_B



Date: 21.APR.2016 17:39:01

2.1.2 1L5M_M



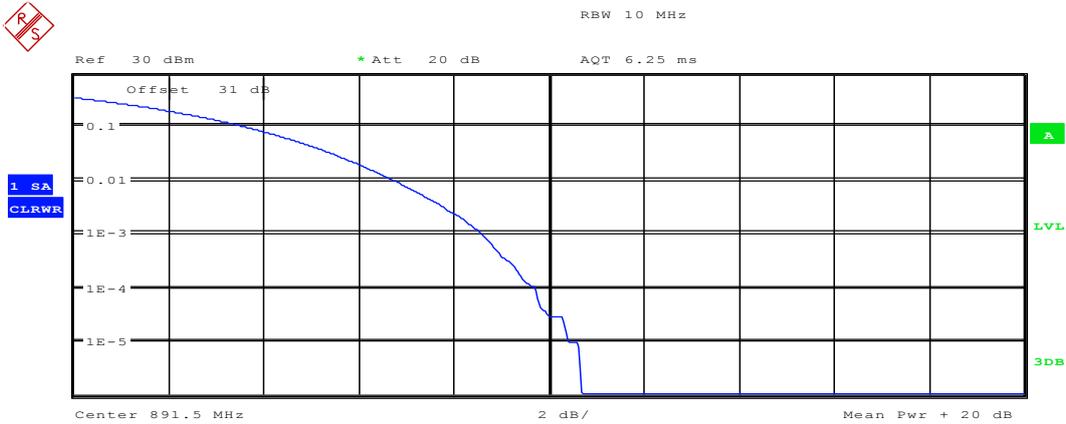
Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1

Mean	18.59 dBm
Peak	29.27 dBm
Crest	10.69 dB
10 %	3.94 dB
1 %	7.21 dB
.1 %	8.97 dB
.01 %	10.16 dB

Date: 12.MAY.2016 11:39:37

2.1.3 1L5M_T

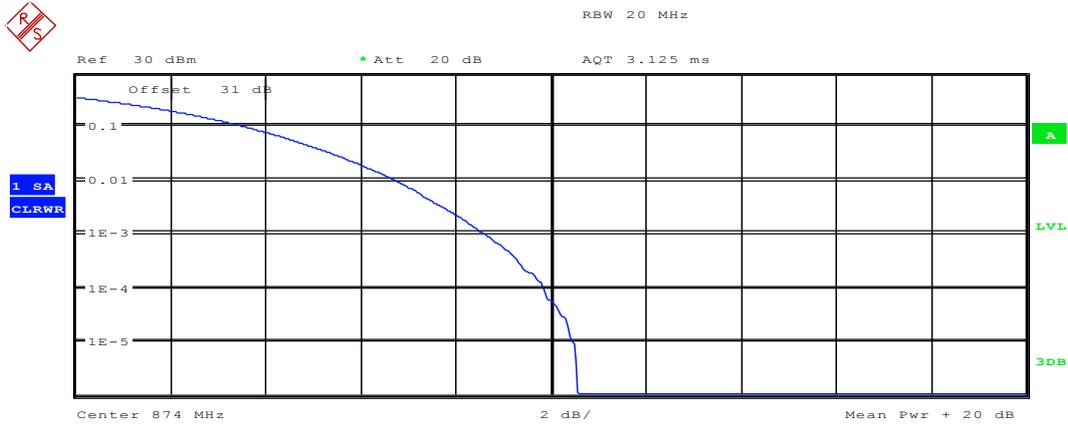


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	19.28 dBm
Peak	29.95 dBm
Crest	10.68 dB
10 %	3.65 dB
1 %	6.76 dB
.1 %	8.59 dB
.01 %	9.71 dB

Date: 21.APR.2016 18:36:36

2.1.4 1L10M_B



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 23.7MHz

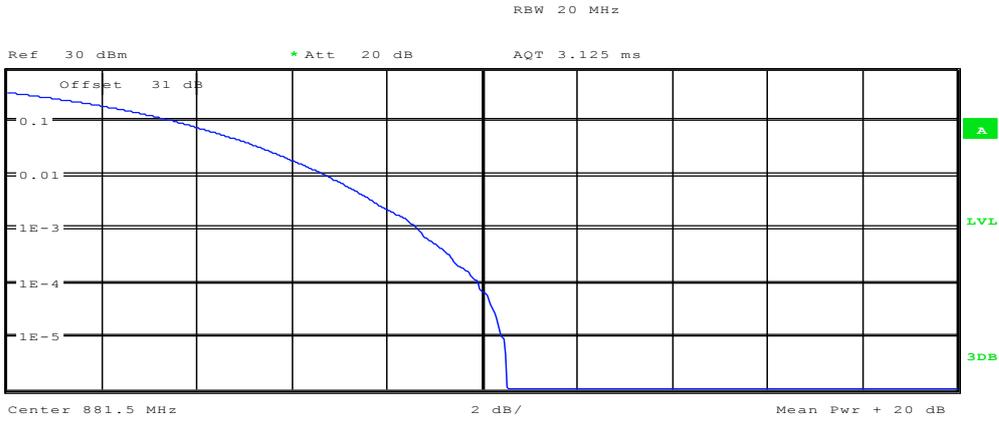
Trace 1	
Mean	19.11 dBm
Peak	29.67 dBm
Crest	10.56 dB
10 %	3.62 dB
1 %	6.73 dB
.1 %	8.62 dB
.01 %	9.84 dB

Date: 21.APR.2016 19:02:04

2.1.5 1L10M_M



1 SA
CLRWR

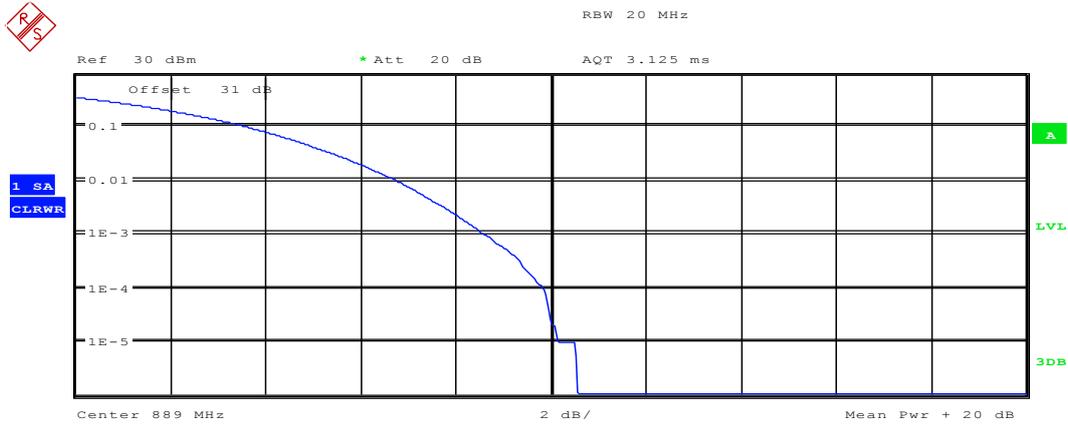


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 23.7MHz

Trace 1	
Mean	18.97 dBm
Peak	29.50 dBm
Crest	10.53 dB
10 %	3.65 dB
1 %	6.73 dB
.1 %	8.65 dB
.01 %	9.94 dB

Date: 21.APR.2016 19:09:00

2.1.6 1L10M_T

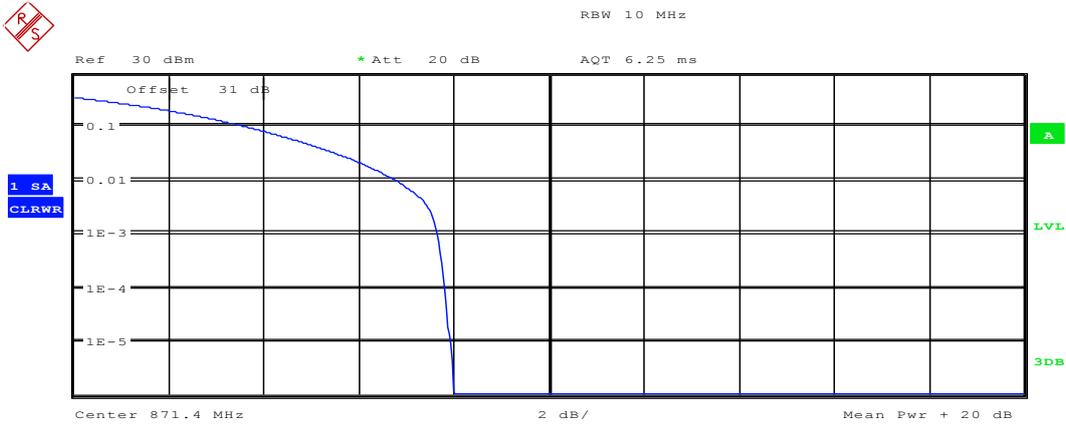


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 23.7MHz

Trace 1	
Mean	19.05 dBm
Peak	29.62 dBm
Crest	10.56 dB
10 %	3.65 dB
1 %	6.76 dB
.1 %	8.59 dB
.01 %	9.84 dB

Date: 21.APR.2016 19:15:02

2.1.7 1U_B

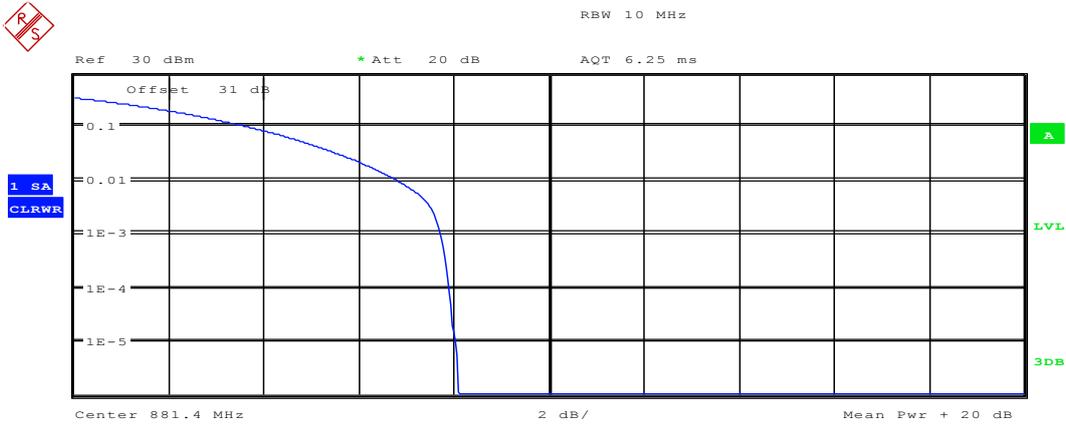


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	19.32 dBm
Peak	27.32 dBm
Crest	8.00 dB
10 %	3.69 dB
1 %	6.79 dB
.1 %	7.66 dB
.01 %	7.82 dB

Date: 21.APR.2016 13:37:36

2.1.8 1U_M

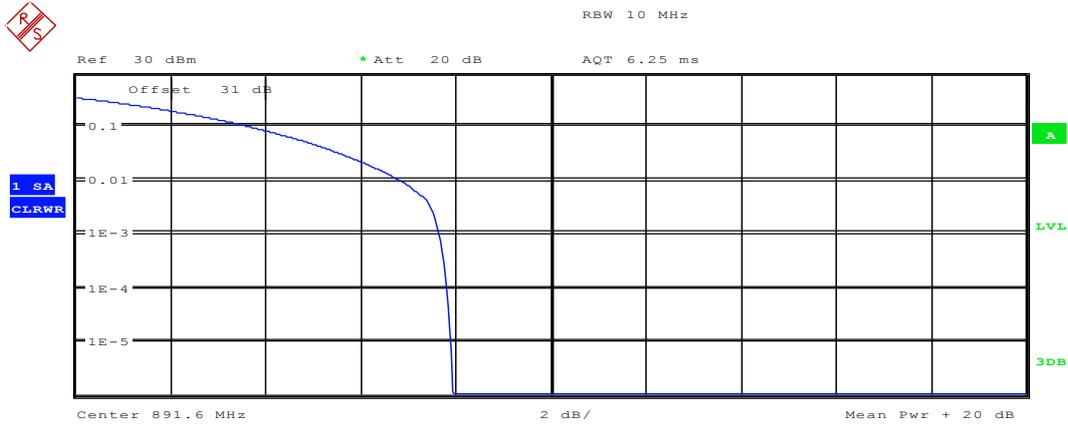


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	19.41 dBm
Peak	27.51 dBm
Crest	8.10 dB
10 %	3.75 dB
1 %	6.83 dB
.1 %	7.72 dB
.01 %	7.92 dB

Date: 21.APR.2016 16:34:48

2.1.9 1U_T



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

Trace 1	
Mean	19.42 dBm
Peak	27.34 dBm
Crest	7.93 dB
10 %	3.75 dB
1 %	6.83 dB
.1 %	7.66 dB
.01 %	7.82 dB

Date: 21.APR.2016 16:51:05



Appendix B: Bandwidth

1 Result Table

1.1 Occupied Bandwidth

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
1L5M_B	4.487179487	---
1L5M_M	4.487179487	---
1L5M_T	4.487179487	---
1L10M_B	8.894230769	---
1L10M_M	8.934294872	---
1L10M_T	8.894230769	---
1U_B	4.166666667	---
1U_M	4.166666667	---
1U_T	4.166666667	---

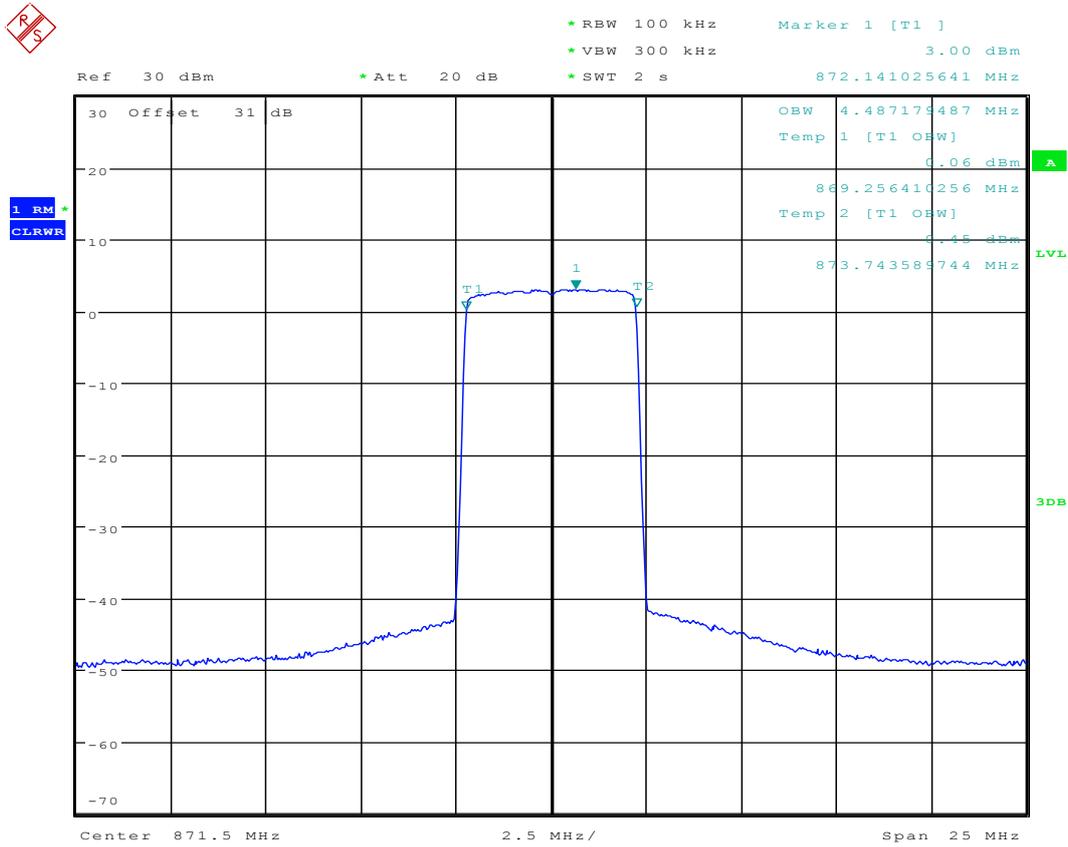
1.2 Emission Bandwidth

EUT Conf.	Emission Bandwidth, -20 dBc [MHz]	Emission Bandwidth, -26 dBc [MHz]	Verdict
1L5M_B	----	4.807692308	---
1L5M_M	----	4.807692308	---
1L5M_T	----	4.807692308	---
1L10M_B	----	9.334935897	---
1L10M_M	----	9.375000000	---
1L10M_T	----	9.334935897	---
1U_B	----	4.687500000	---
1U_M	----	4.687500000	---
1U_T	----	4.687500000	---

2 Test Plot

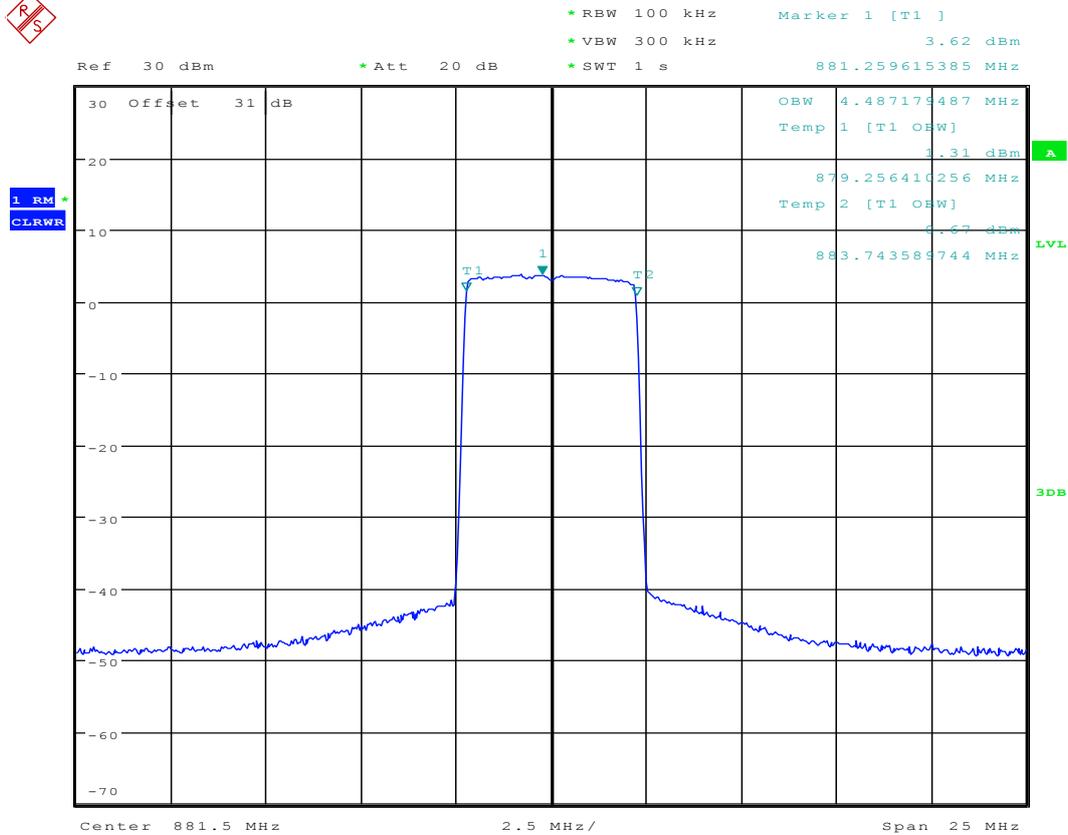
2.1 Occupied Bandwidth

2.1.1 1L5M_B



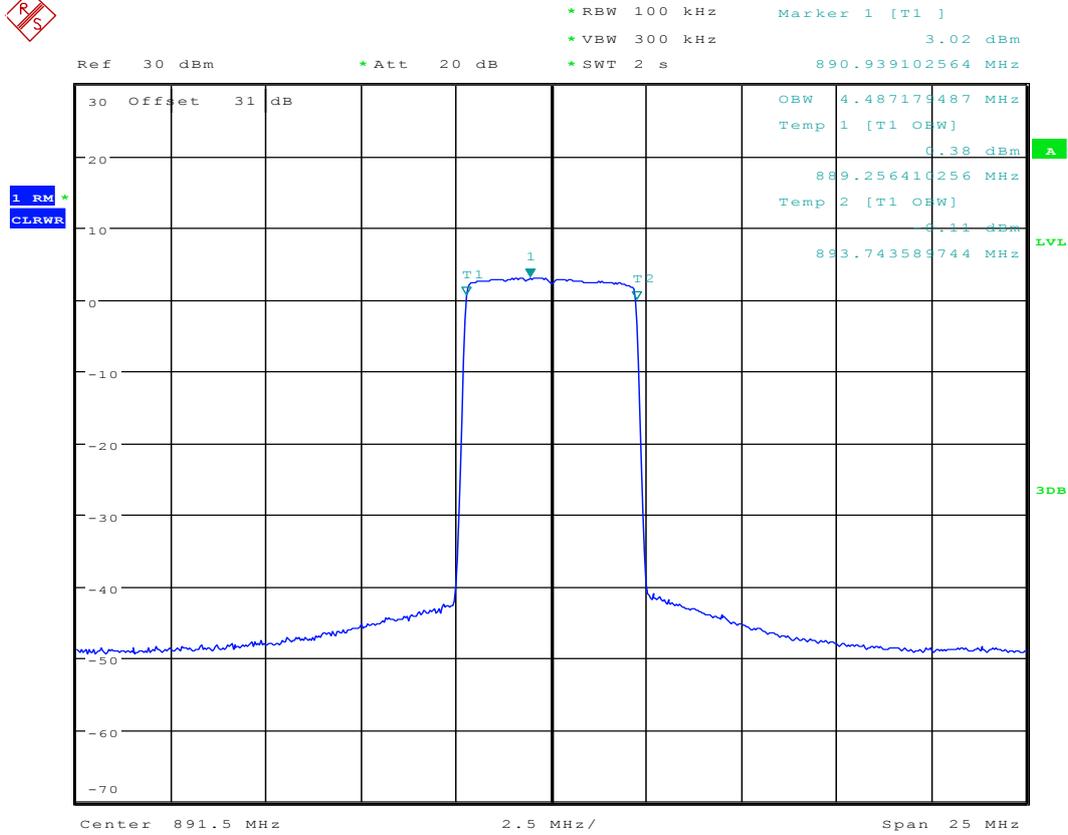
Date: 21.APR.2016 17:43:30

2.1.2 1L5M_M



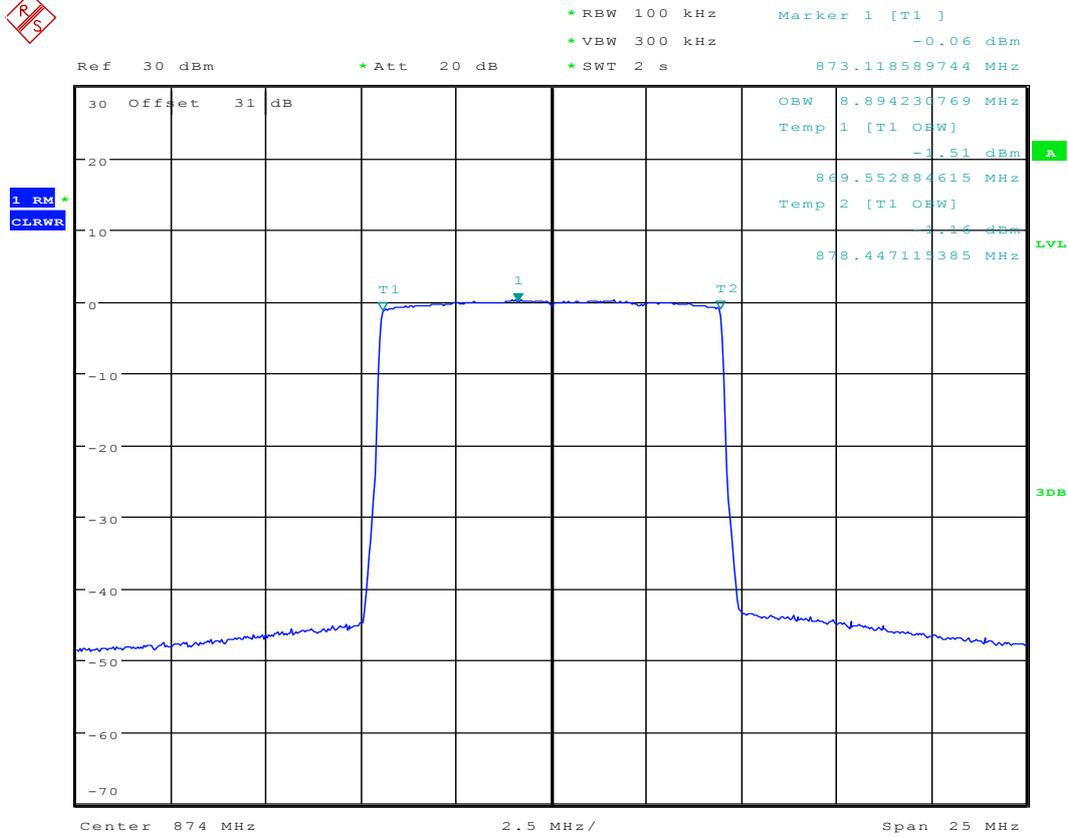
Date: 3.MAY.2016 18:03:12

2.1.3 1L5M_T



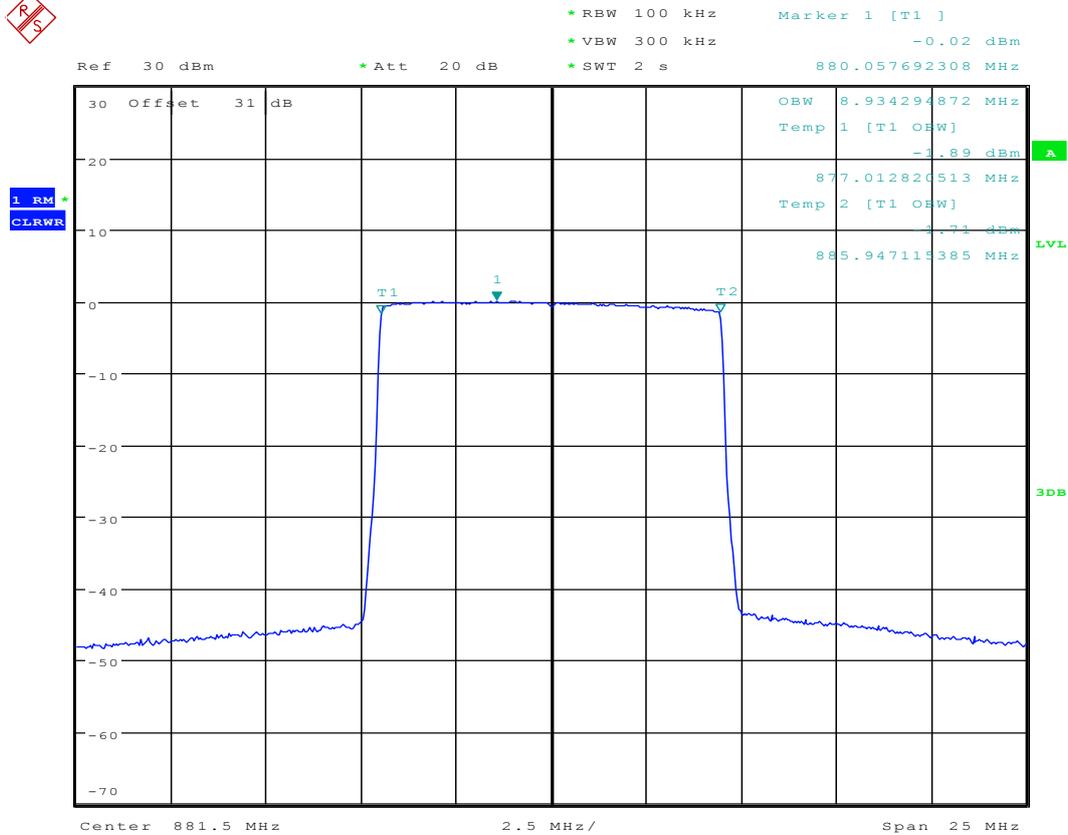
Date: 21.APR.2016 18:43:06

2.1.4 1L10M_B



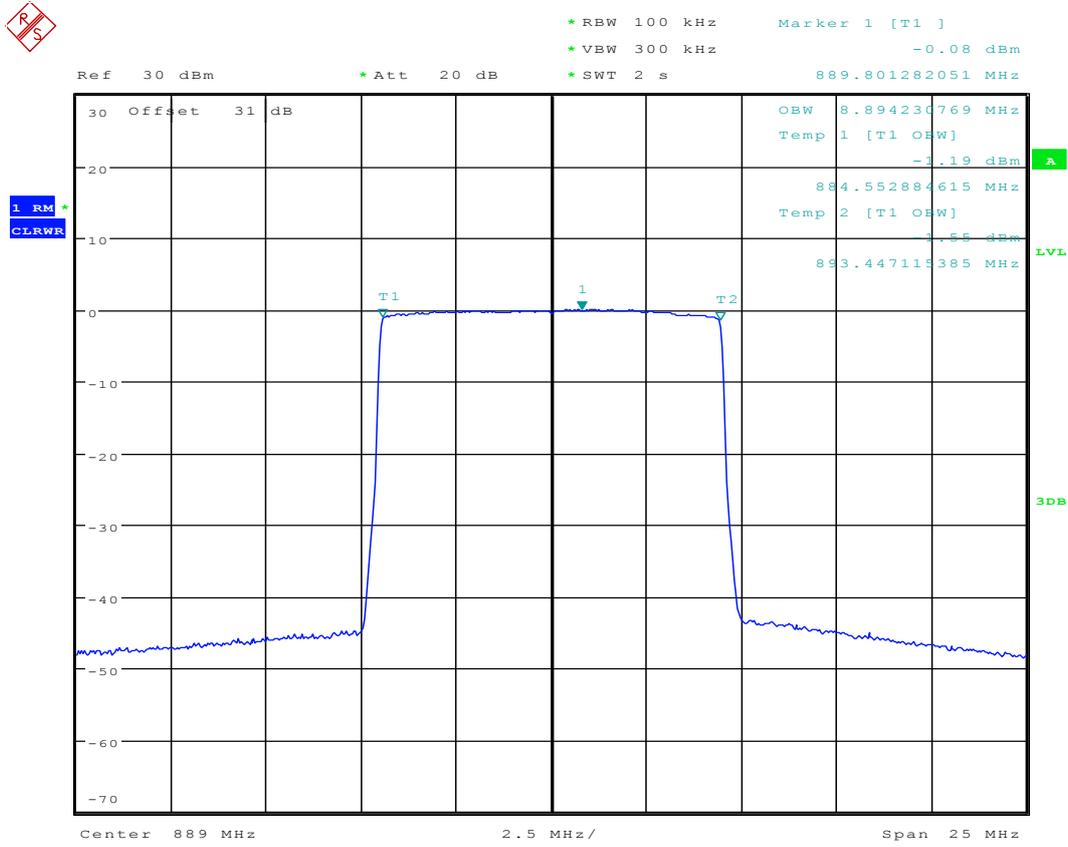
Date: 21.APR.2016 19:00:58

2.1.5 1L10M_M



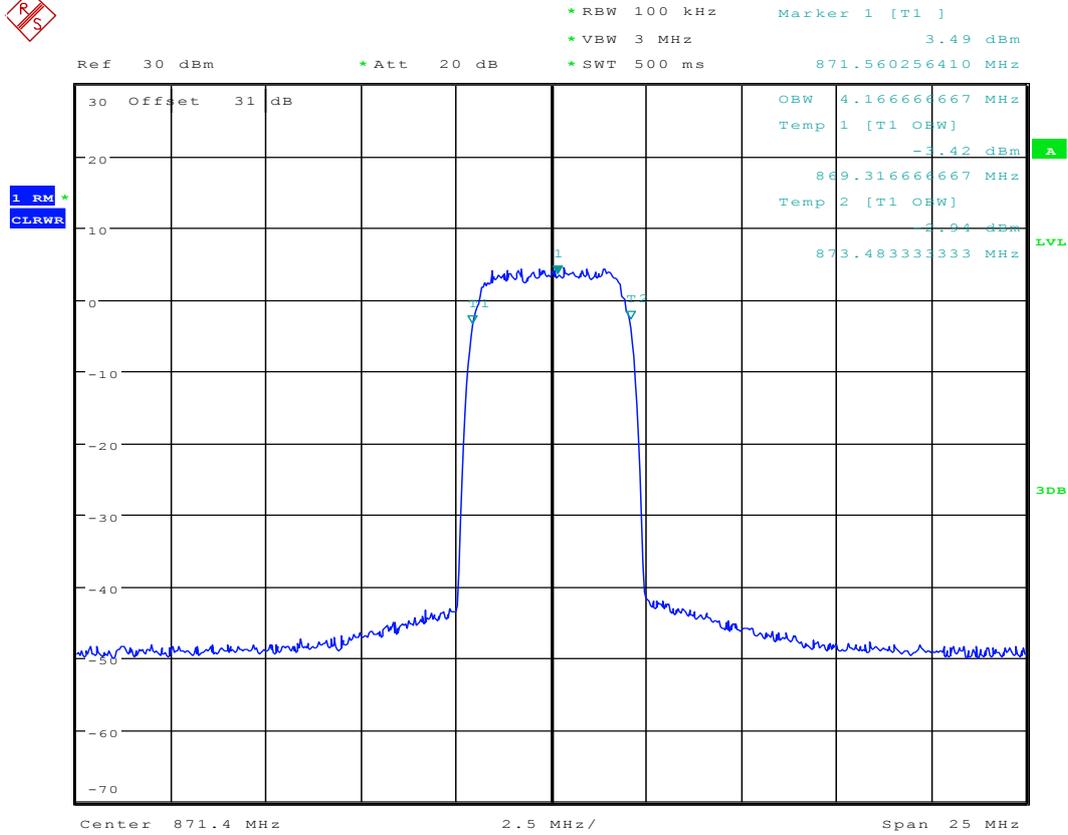
Date: 21.APR.2016 19:09:40

2.1.6 1L10M_T



Date: 21.APR.2016 19:15:30

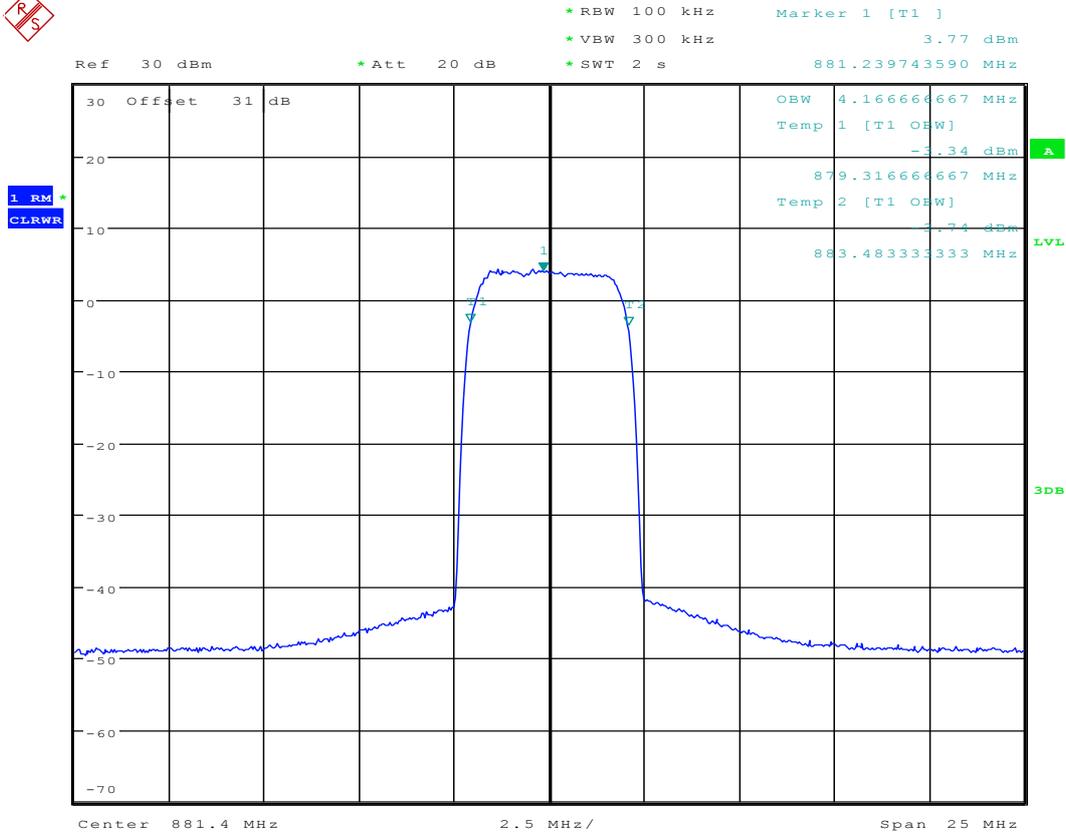
2.1.7 1U_B



Date: 21.APR.2016 13:41:13

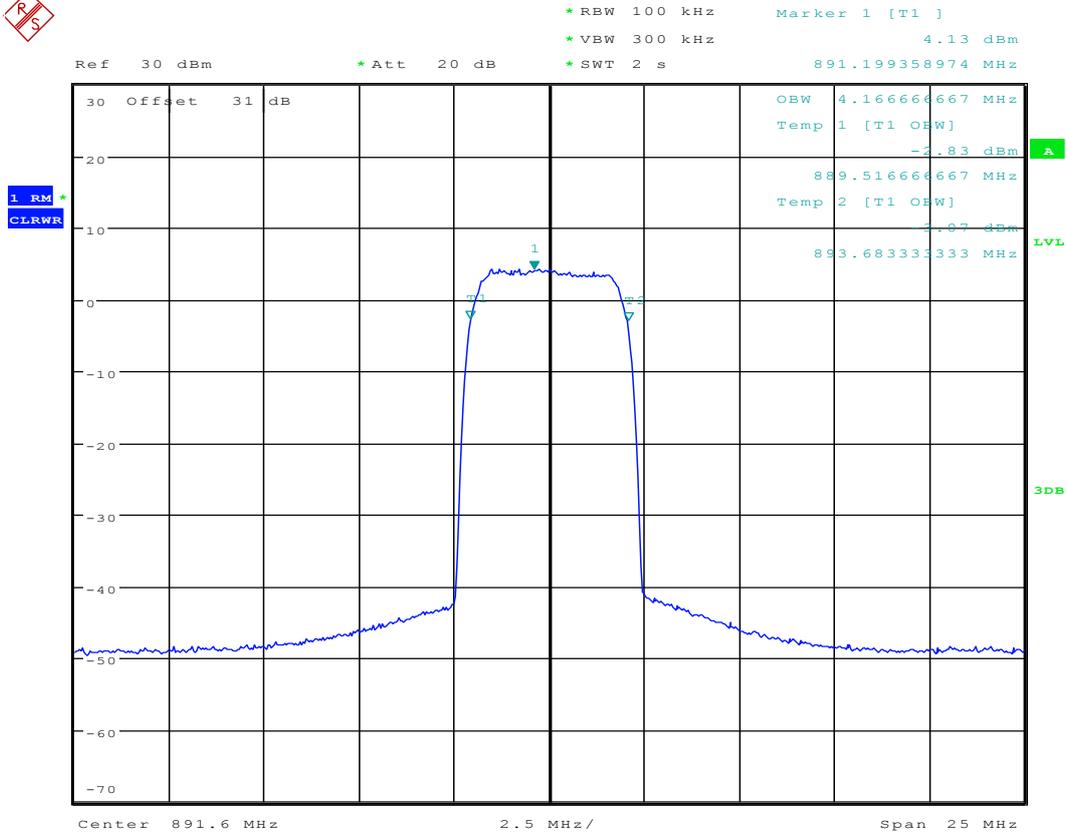


2.1.8 1U_M



Date: 21.APR.2016 16:35:30

2.1.9 1U_T

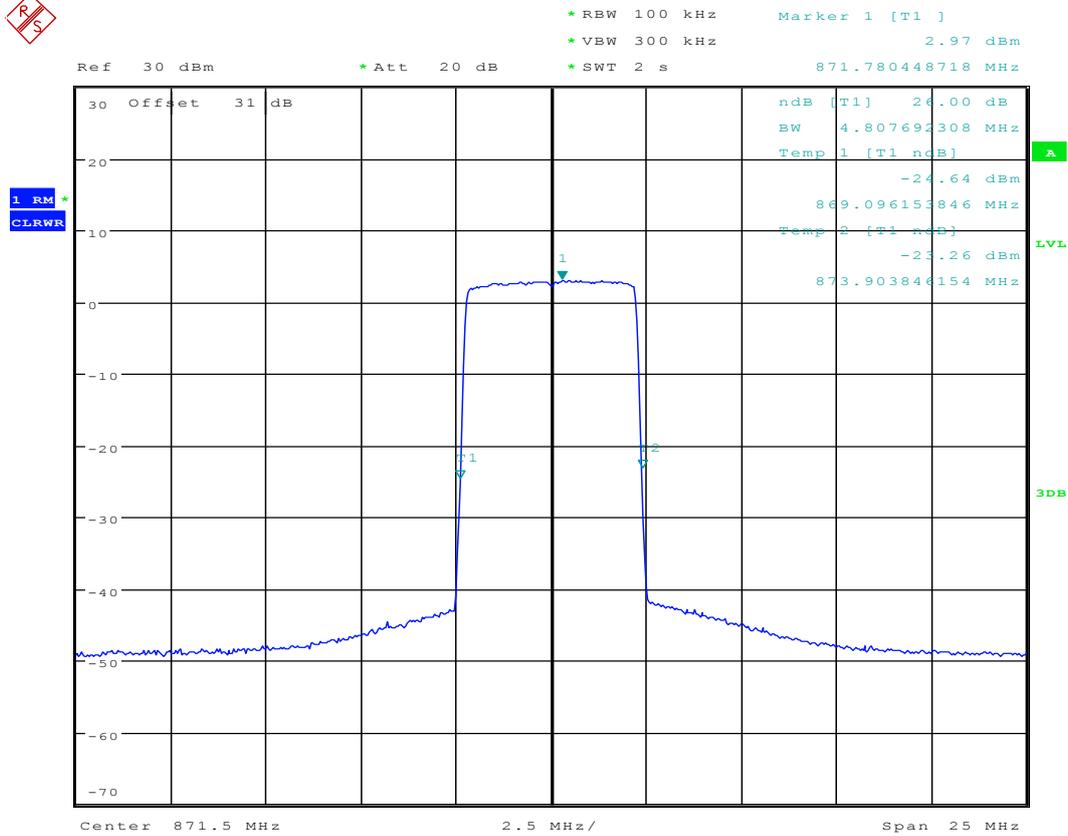


Date: 21.APR.2016 16:51:58



2.2 Emission Bandwidth(-26 dBc)

2.2.1 1L5M_B



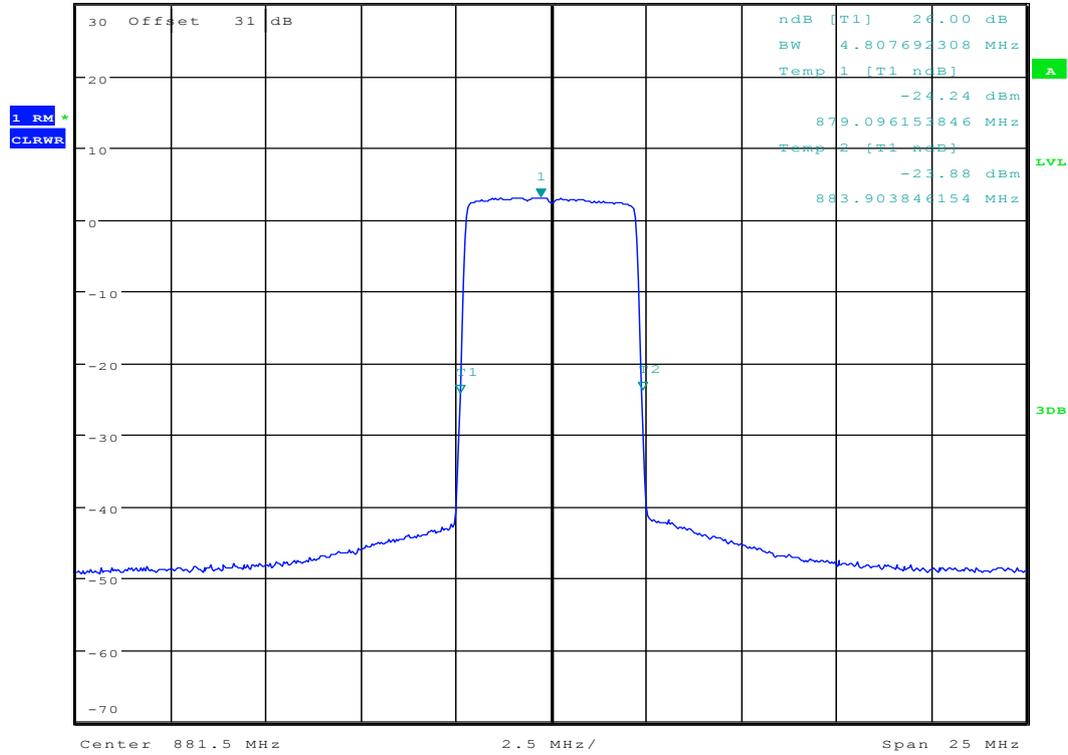
Date: 21.APR.2016 18:50:44



2.2.2 1L5M_M

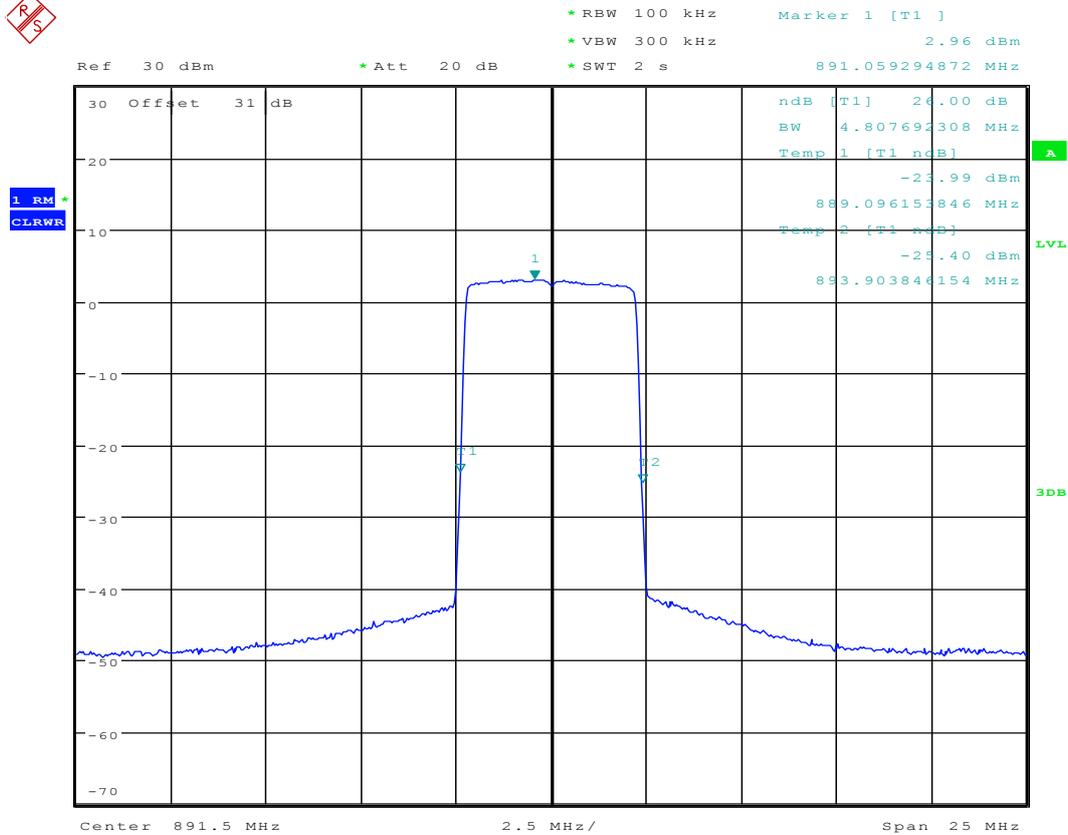


MARKER 1
 881.2195513 MHz
 Ref 30 dBm * Att 20 dB * RBW 100 kHz * VBW 300 kHz * SWT 2 s
 Marker 1 [T1] 3.02 dBm
 881.219551282 MHz



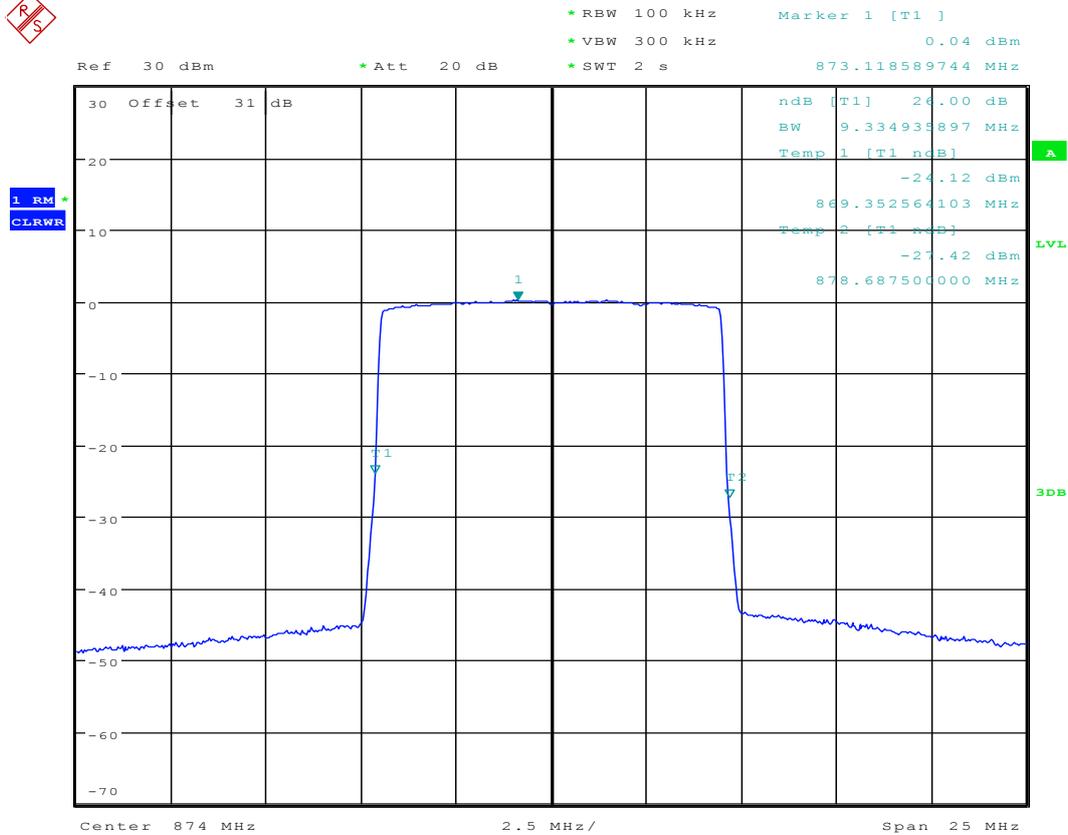
Date: 21.APR.2016 18:22:40

2.2.3 1L5M_T



Date: 21.APR.2016 18:43:47

2.2.4 1L10M_B



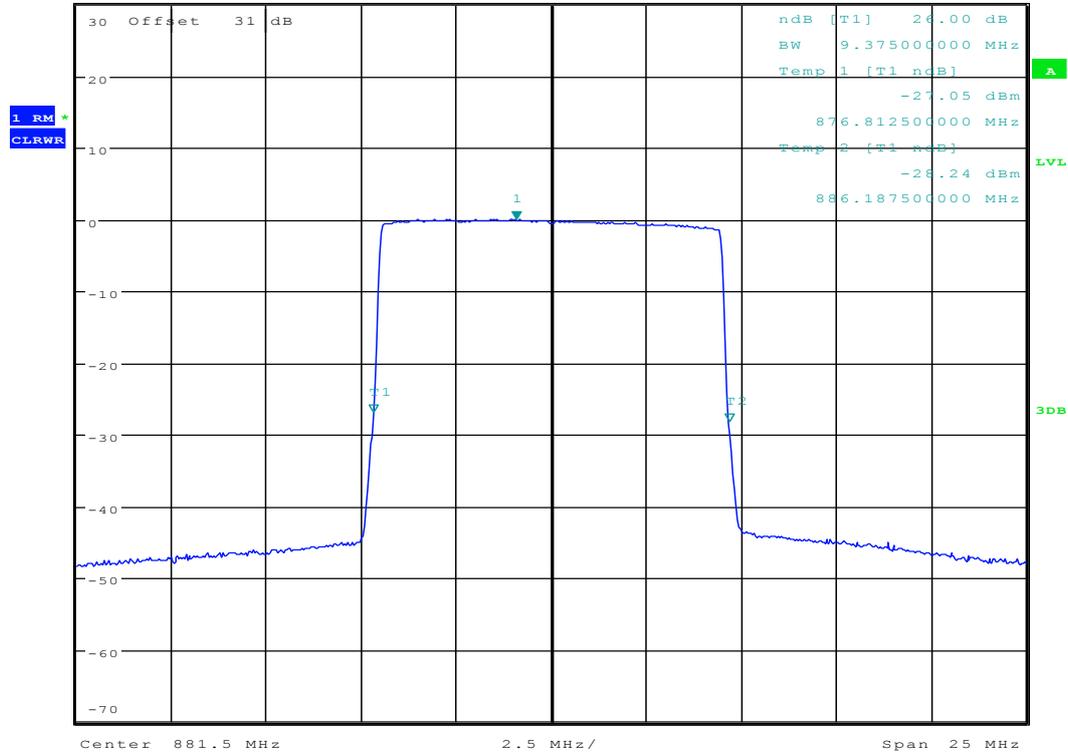
Date: 21.APR.2016 19:00:37



2.2.5 1L10M_M



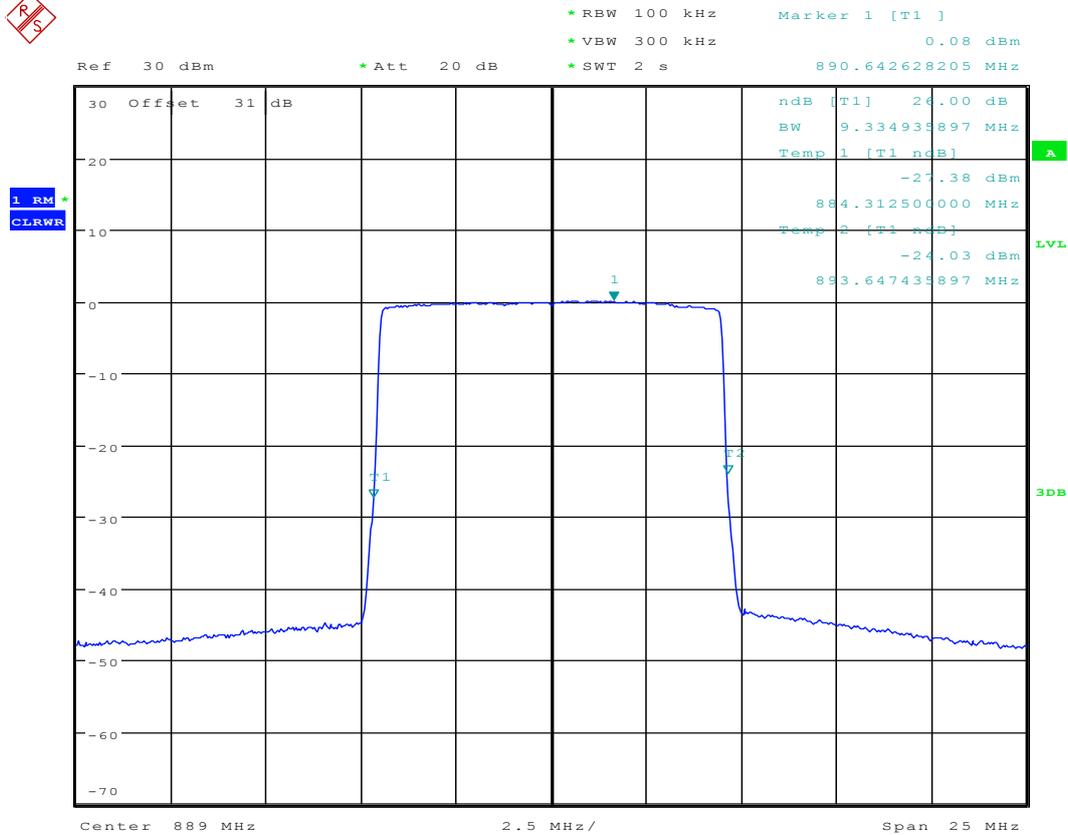
MARKER 1
 880.5785256 MHz
 Ref 30 dBm * Att 20 dB * RBW 100 kHz * VBW 300 kHz * SWT 2 s
 Marker 1 [T1] 880.578525641 MHz
 -0.23 dBm



Date: 21.APR.2016 19:09:54



2.2.6 1L10M_T

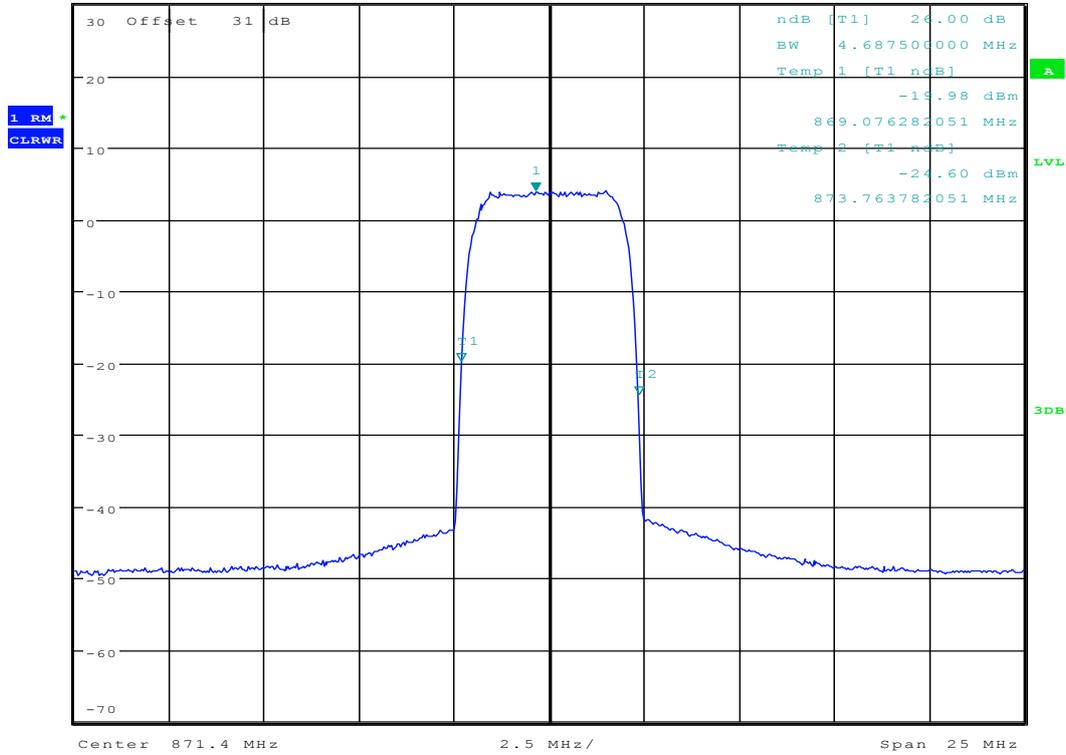


Date: 21.APR.2016 19:15:57

2.2.7 1U_B

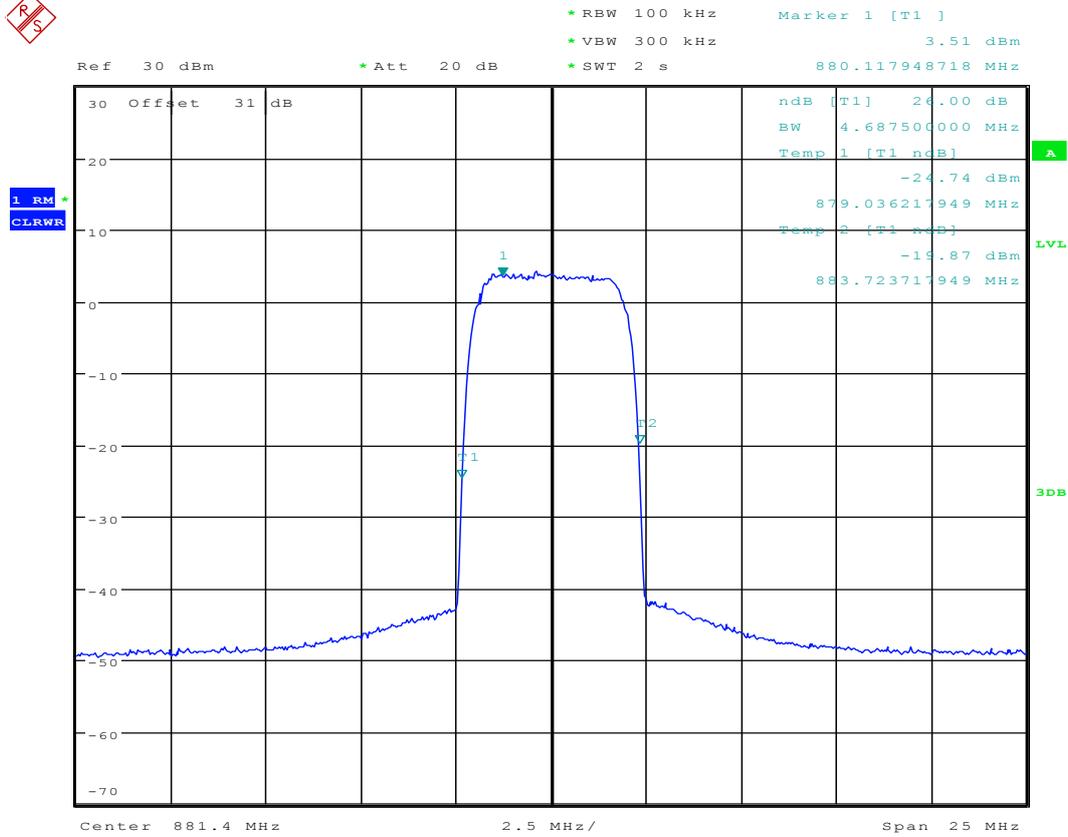


MARKER 1
 871.0394231 MHz
 Ref 30 dBm * Att 20 dB * RBW 100 kHz * VBW 300 kHz * SWT 2 s
 Marker 1 [T1] 3.76 dBm
 871.039423077 MHz



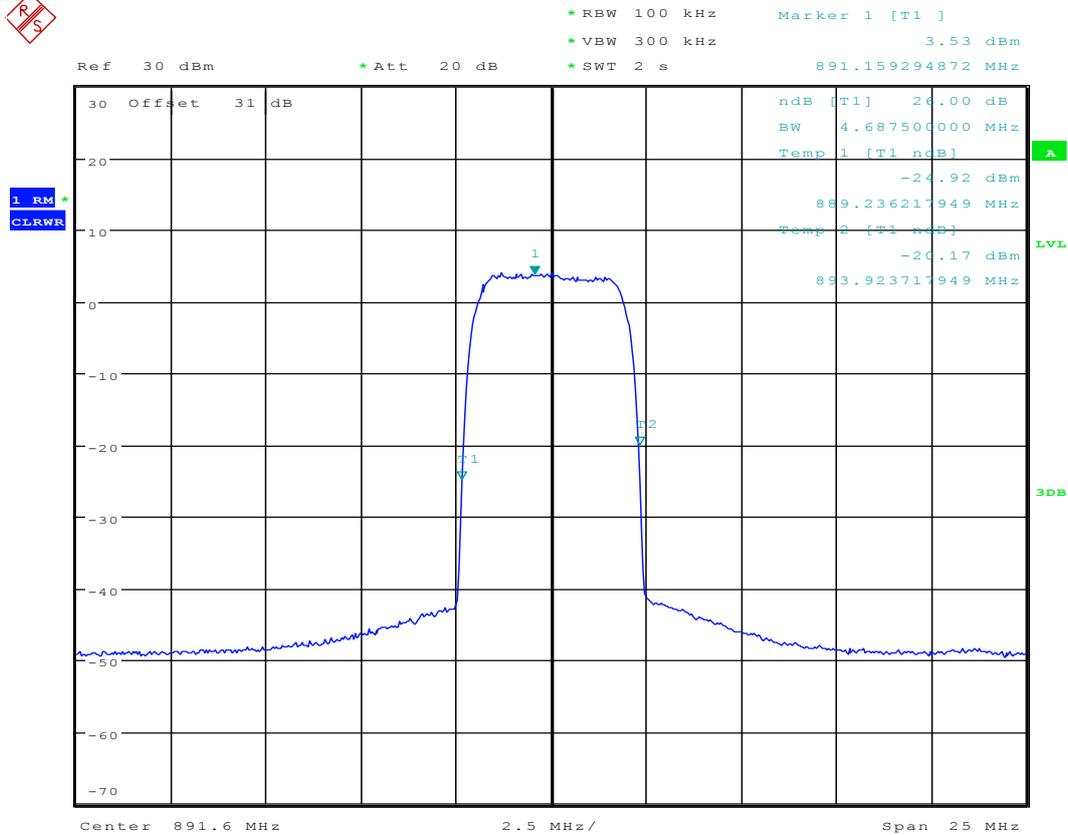
Date: 21.APR.2016 18:56:47

2.2.8 1U_M



Date: 21.APR.2016 18:55:15

2.2.9 1U_T



Date: 21.APR.2016 18:53:03



Appendix C: Band Edges Compliance



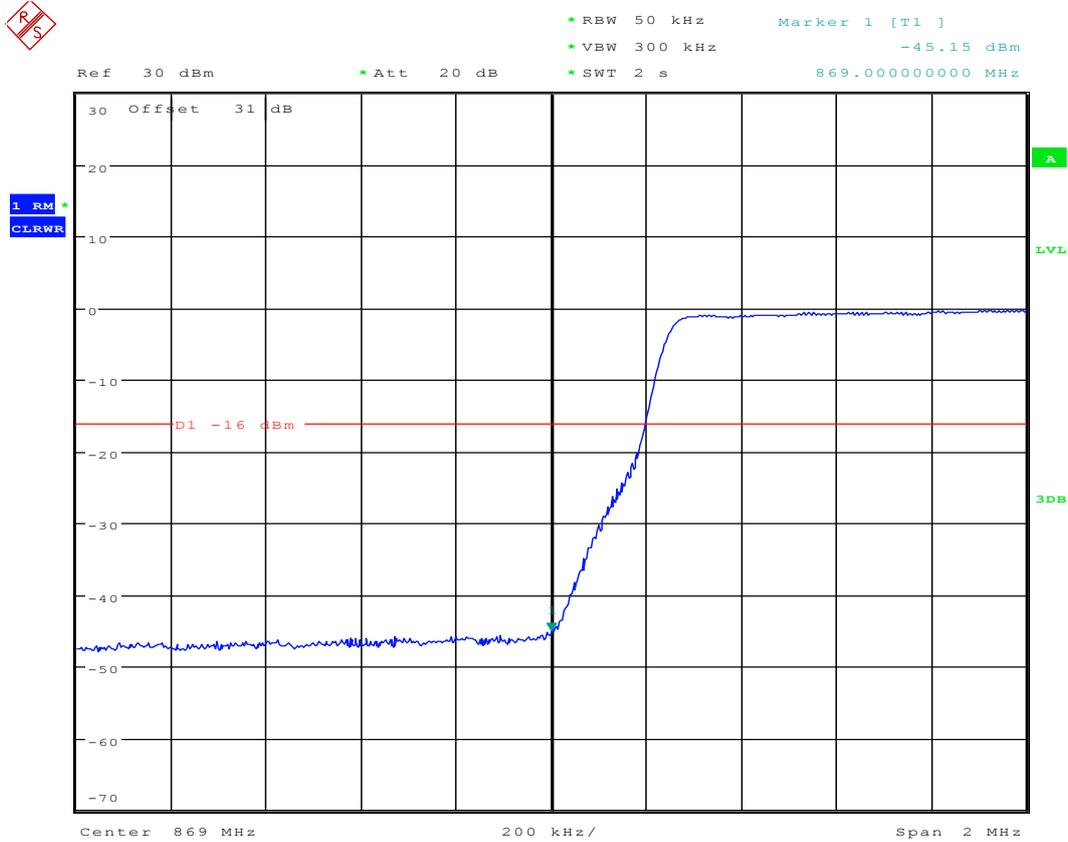
1 Result Table

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
1L5M_B	<-13	Pass
1L5M_T	<-13	Pass
1L10M_B	<-13	Pass
1L10M_T	<-13	Pass
1U_B	<-13	Pass
1U_T	<-13	Pass
1U1L5M_B	<-13	Pass
1U1L5M_T	<-13	Pass

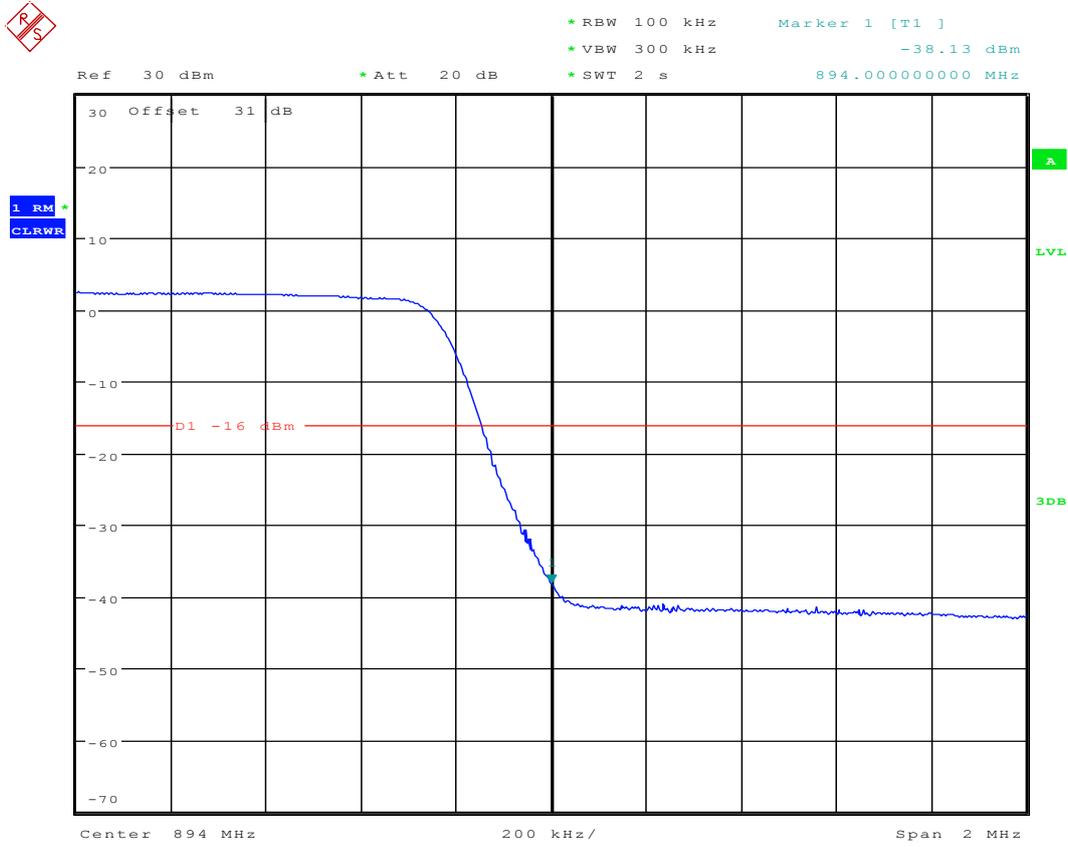
2 Test Plot

2.1 1L5M_B



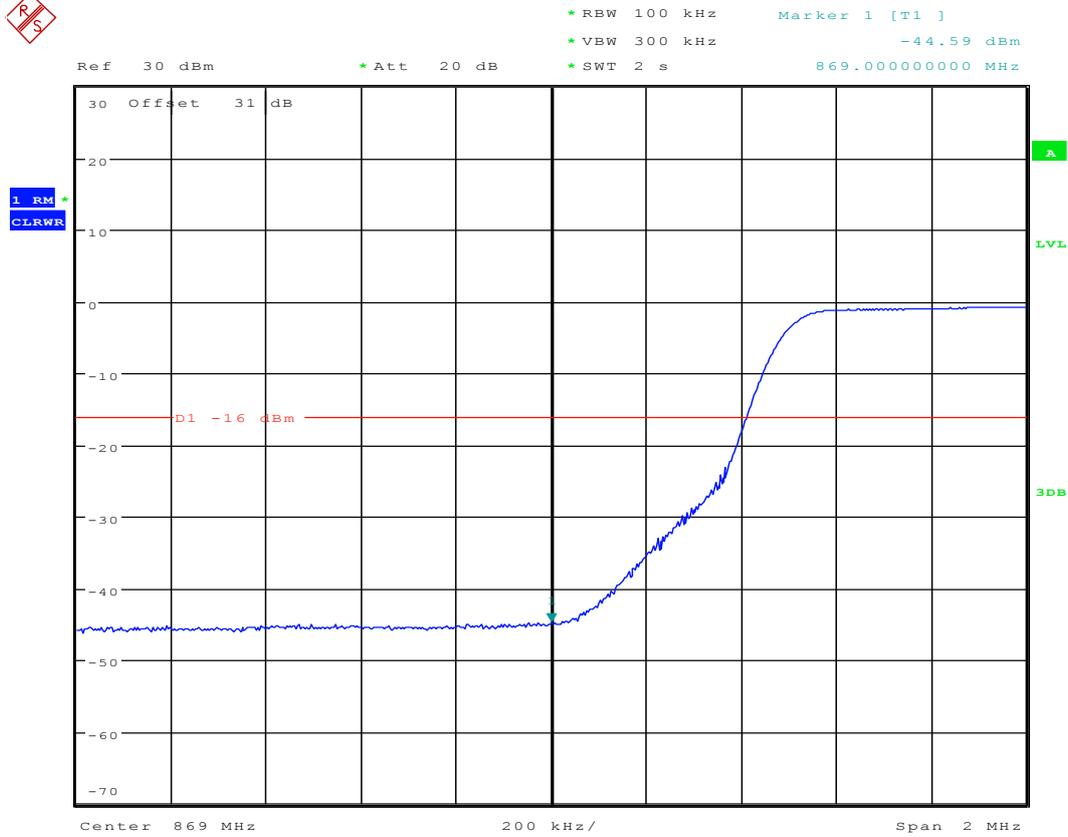
Date: 21.APR.2016 17:56:09

2.2 1L5M_T



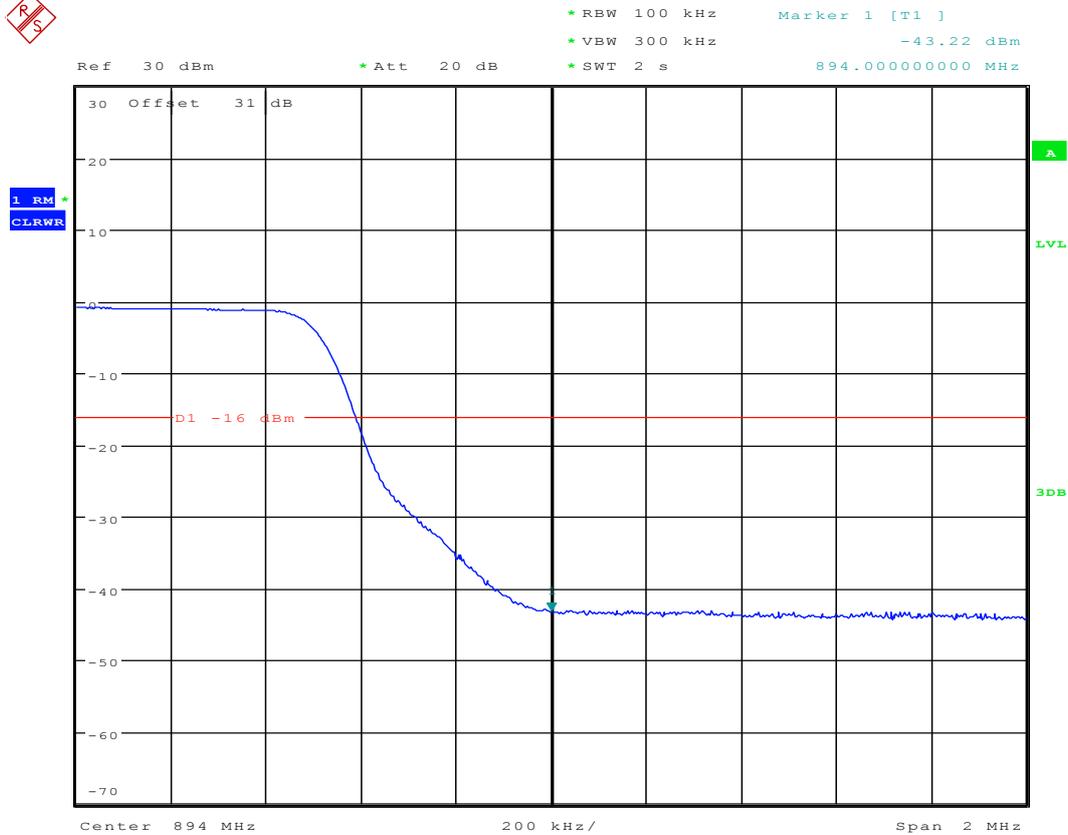
Date: 21.APR.2016 18:45:21

2.3 1L10M_B



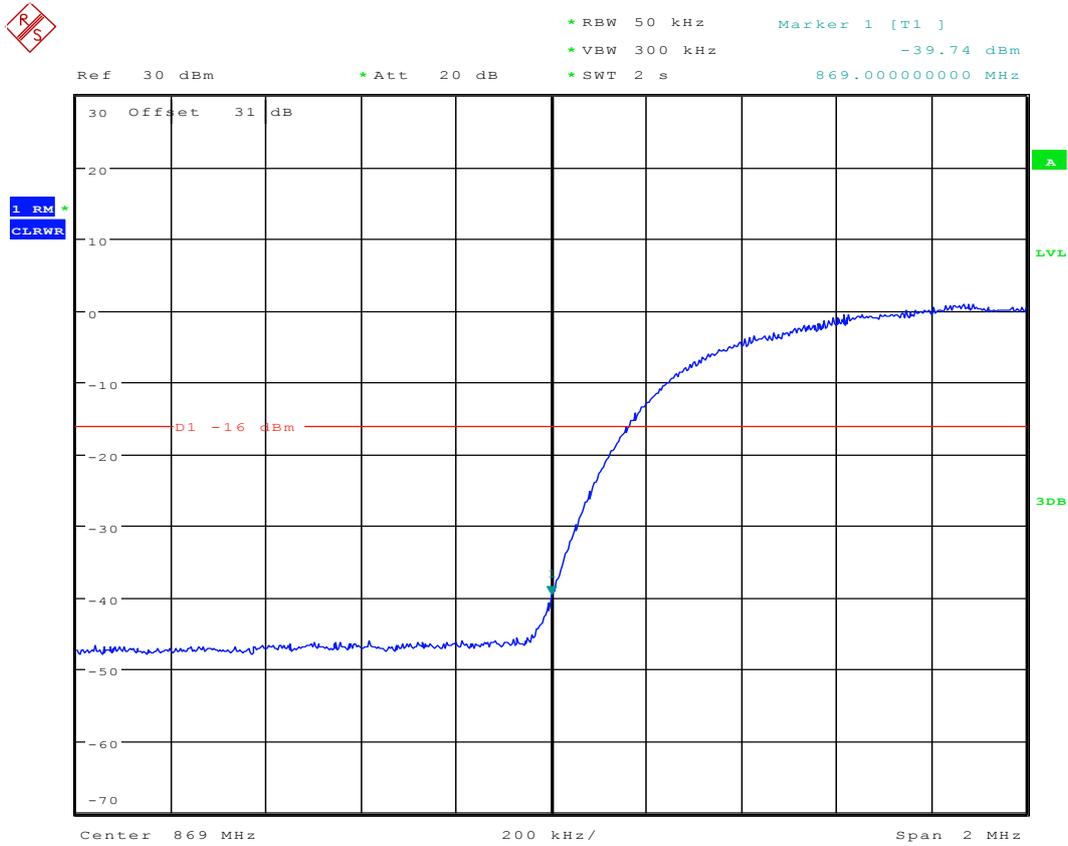
Date: 21.APR.2016 19:04:39

2.4 1L10M_T



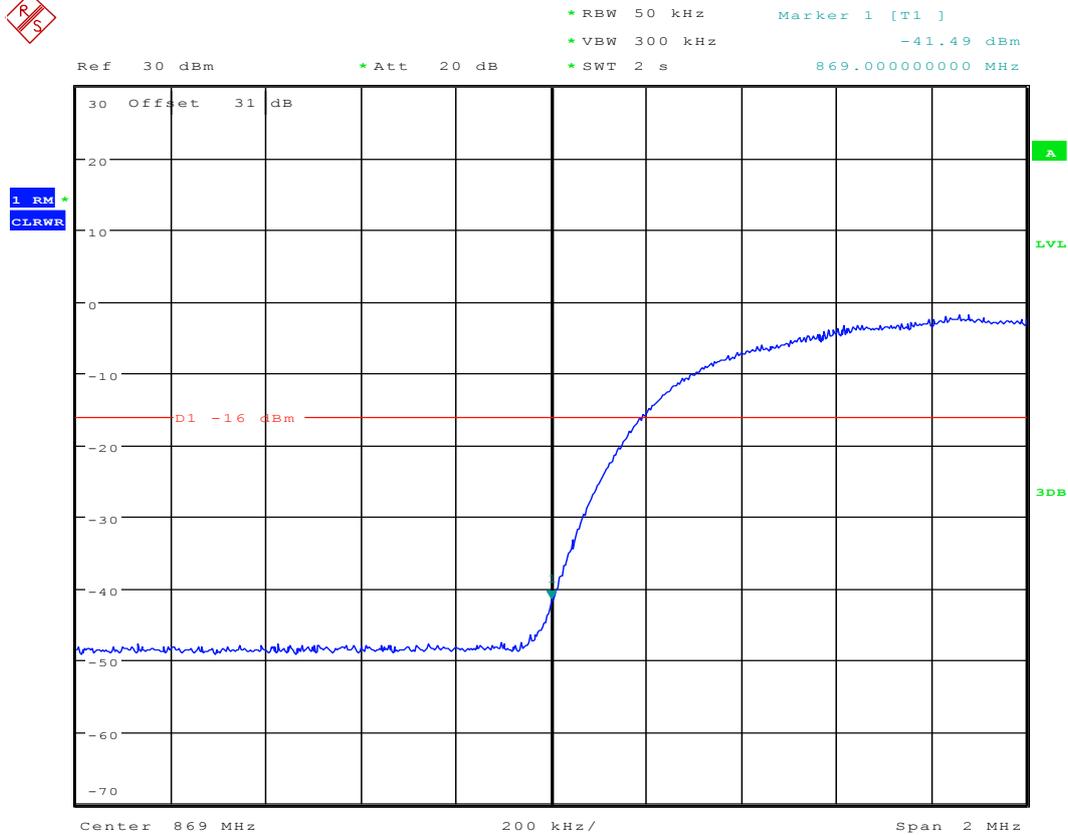
Date: 21.APR.2016 19:16:56

2.5 1U_B



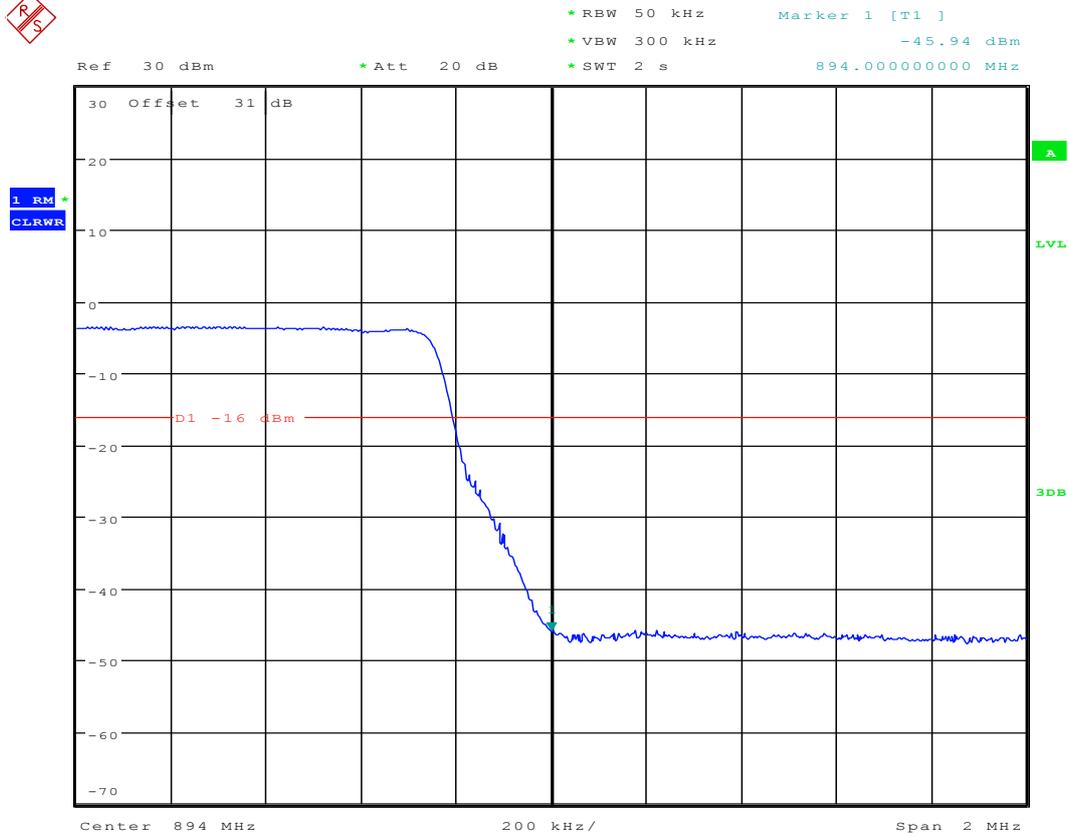
Date: 21.APR.2016 13:59:07

2.7 1U1L5M_B



Date: 22.APR.2016 11:33:46

2.8 1U1L5M_T



Date: 22.APR.2016 12:36:30



Appendix D: Spurious Emission at Antenna Terminals

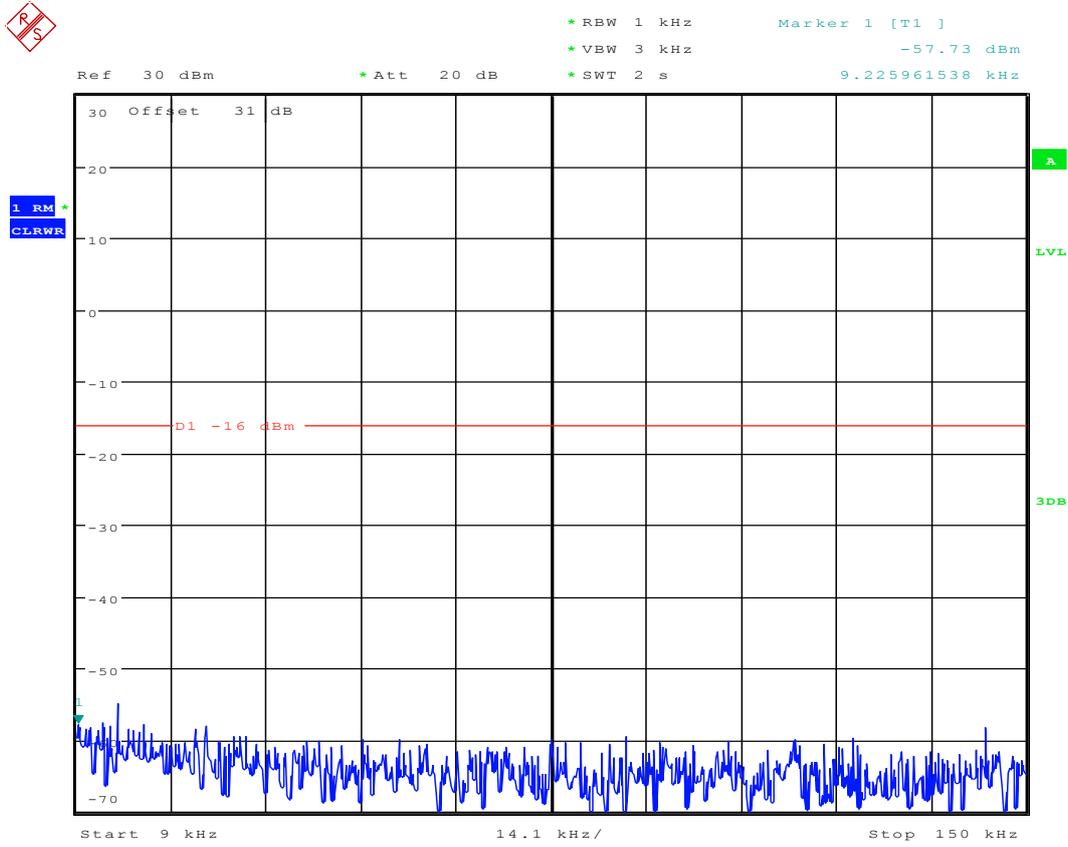


1 Result Table

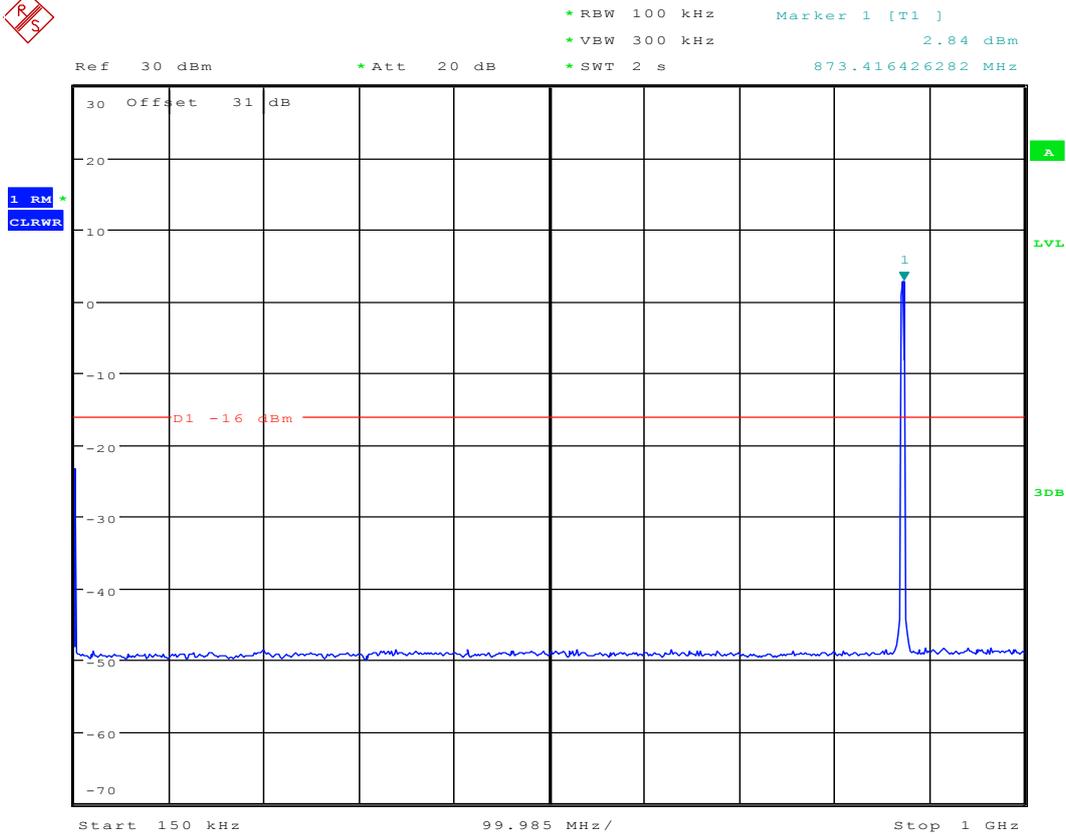
EUT Conf.	Maximum Emission [dBm]	Verdict
1L5M_B	<-13	Pass
1L5M_M	<-13	Pass
1L5M_T	<-13	Pass
1L10M_B	<-13	Pass
1L10M_M	<-13	Pass
1L10M_T	<-13	Pass
1U_B	<-13	Pass
1U_M	<-13	Pass
1U_T	<-13	Pass
1U1L5M_B	<-13	Pass
1U1L5M_M	<-13	Pass
1U1L5M_T	<-13	Pass

2 Test Plot

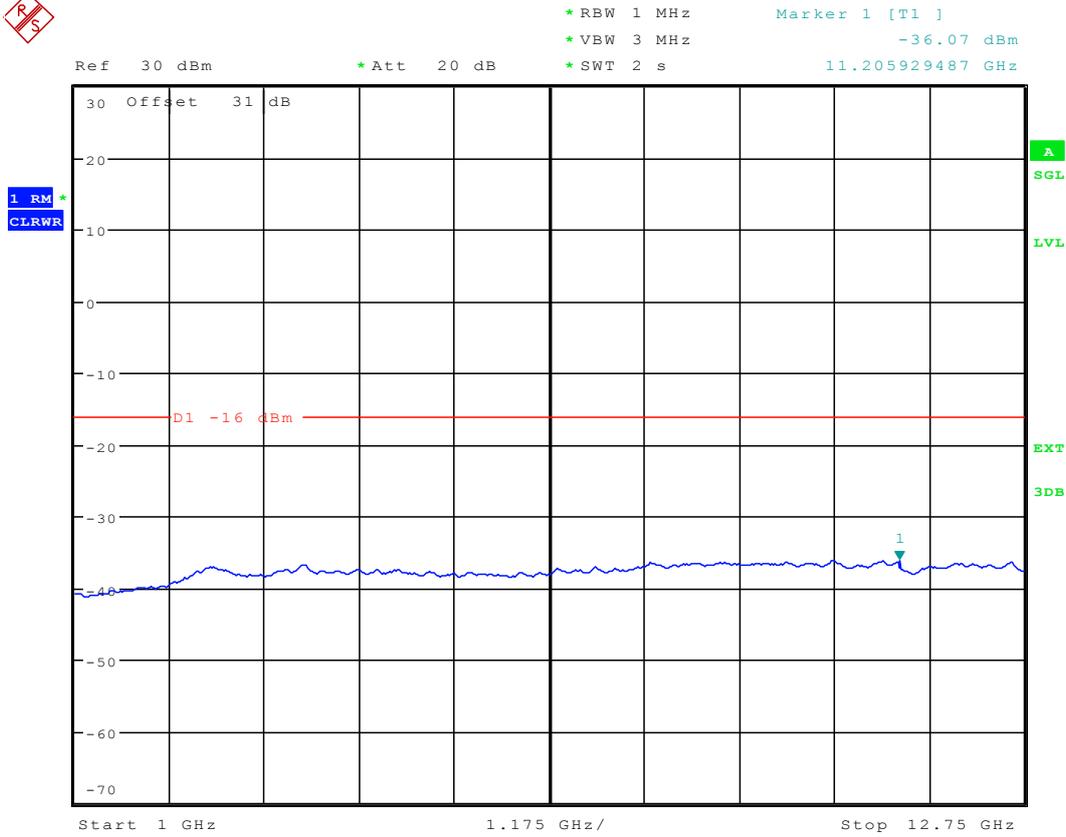
2.1 1L5M_B



Date: 21.APR.2016 17:58:06

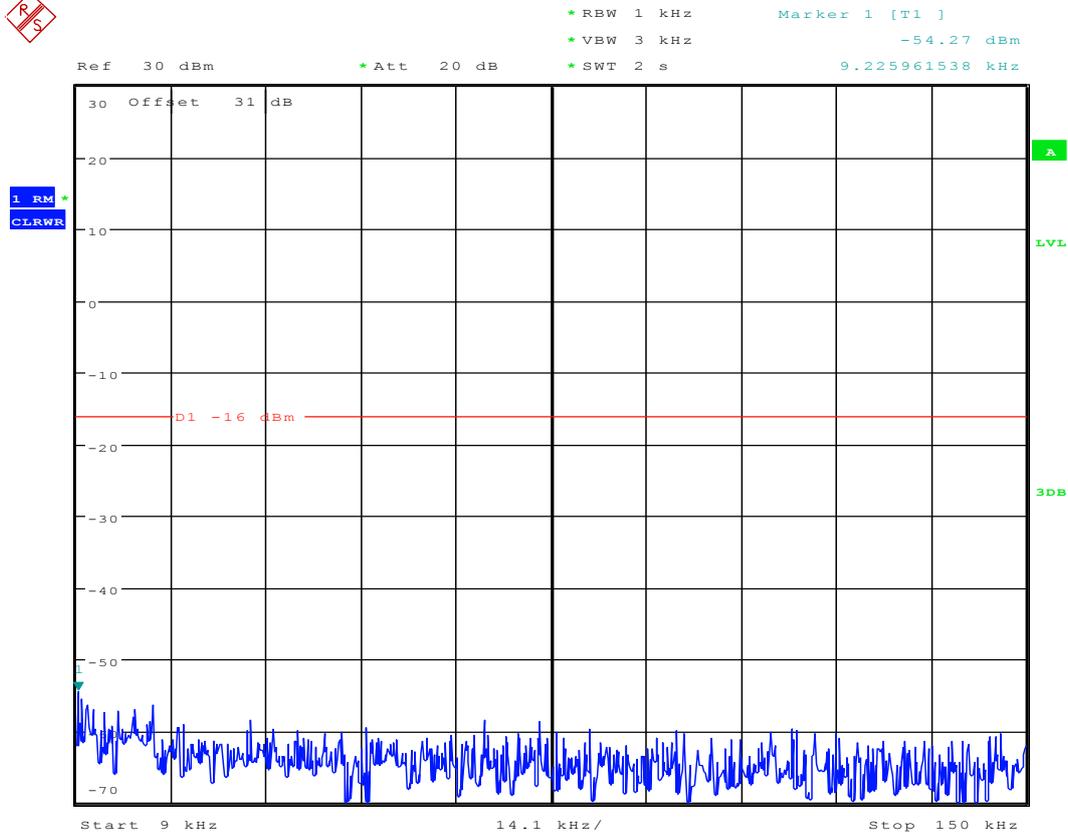


Date: 21.APR.2016 17:59:13

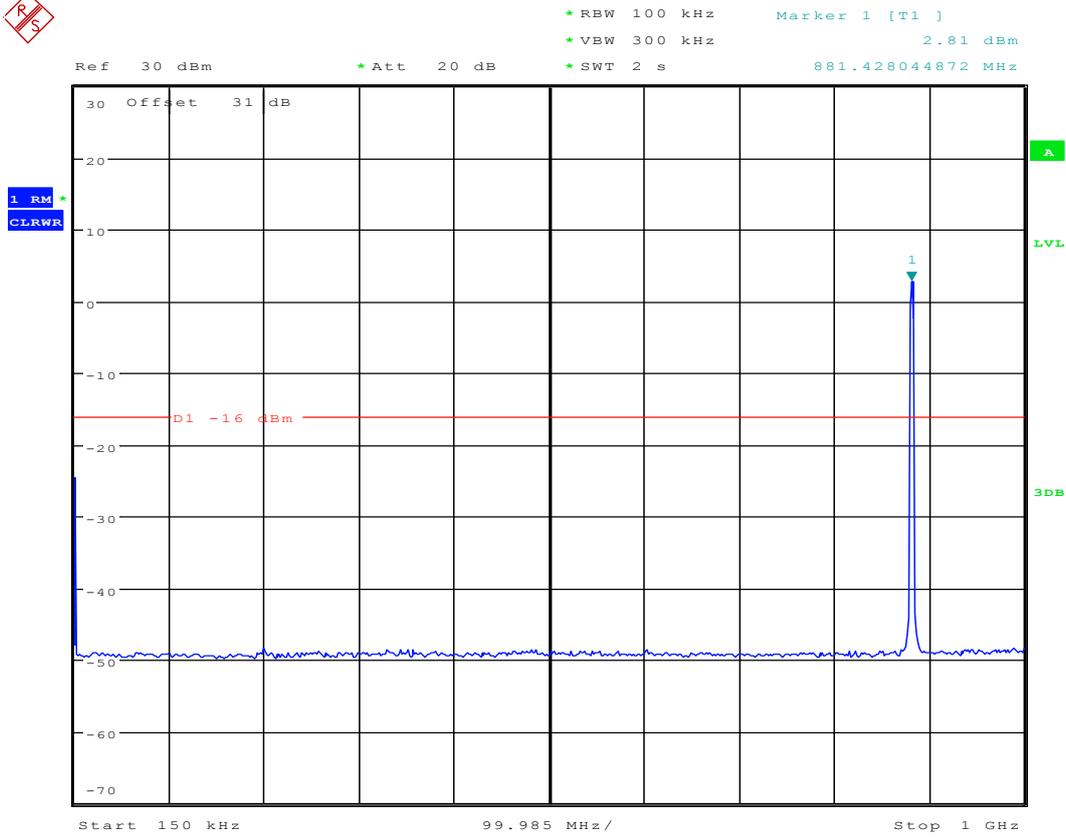


Date: 12.MAY.2016 17:15:44

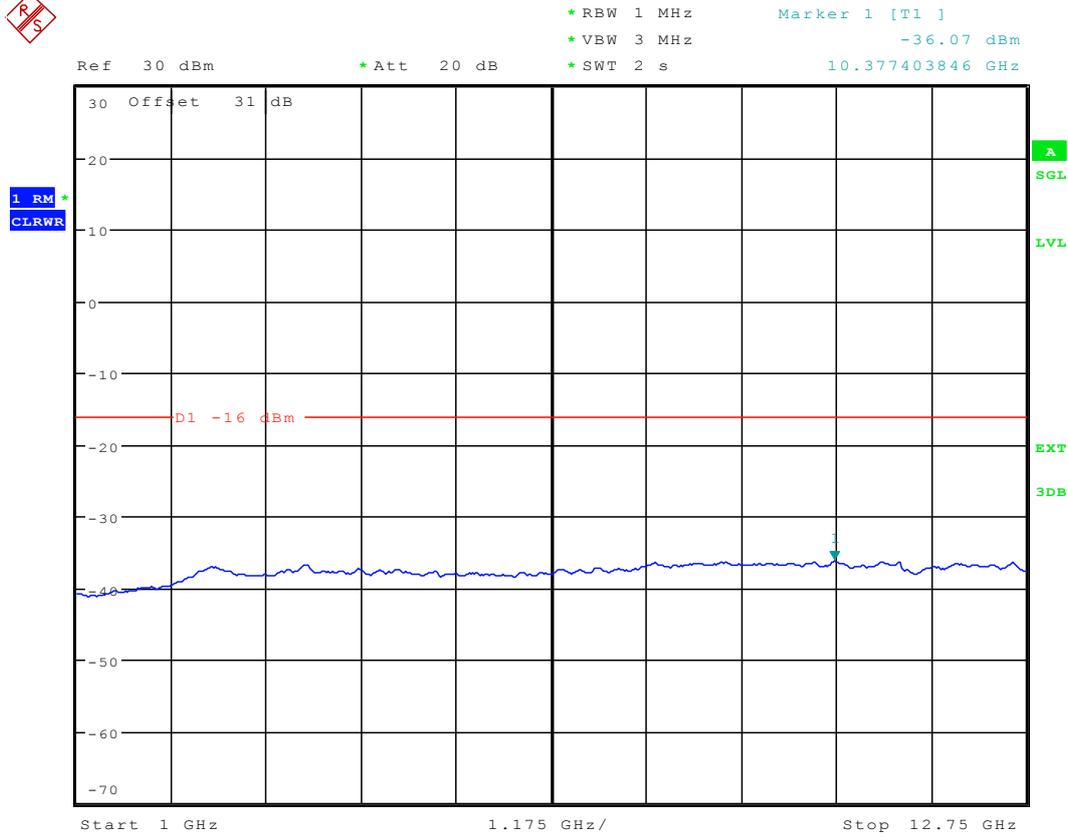
2.2 1L5M_M



Date: 21.APR.2016 18:32:00

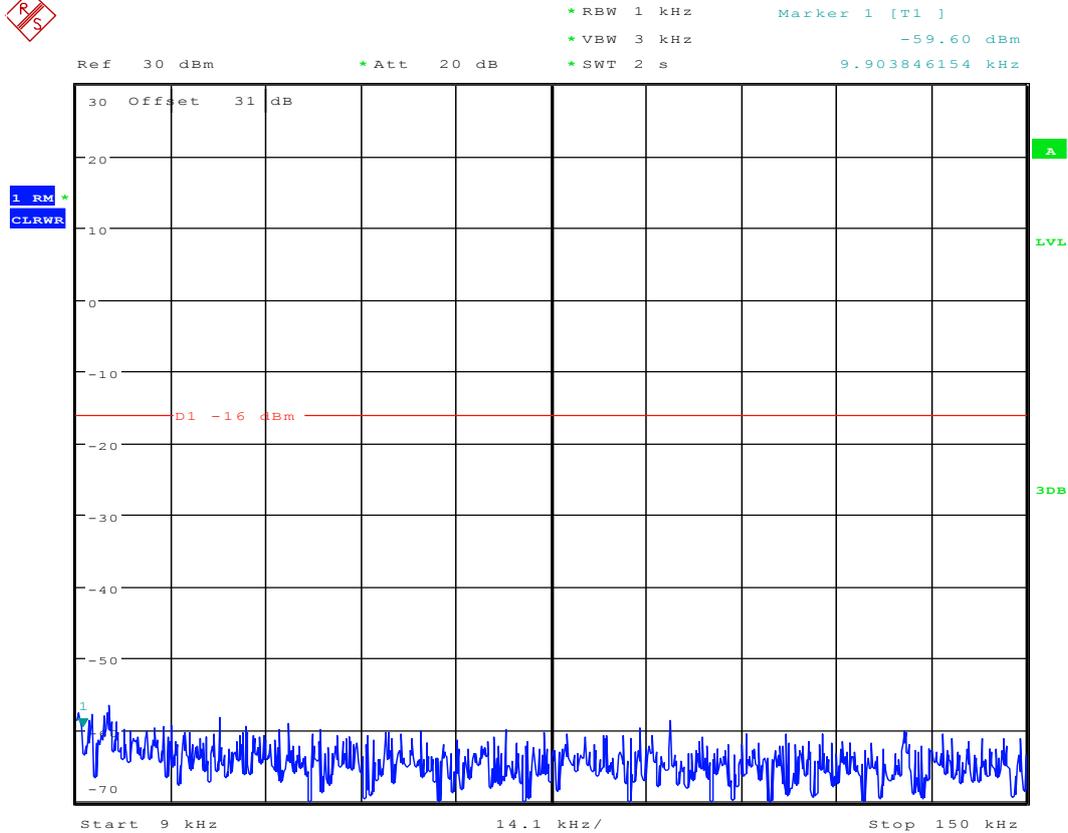


Date: 21.APR.2016 18:32:45

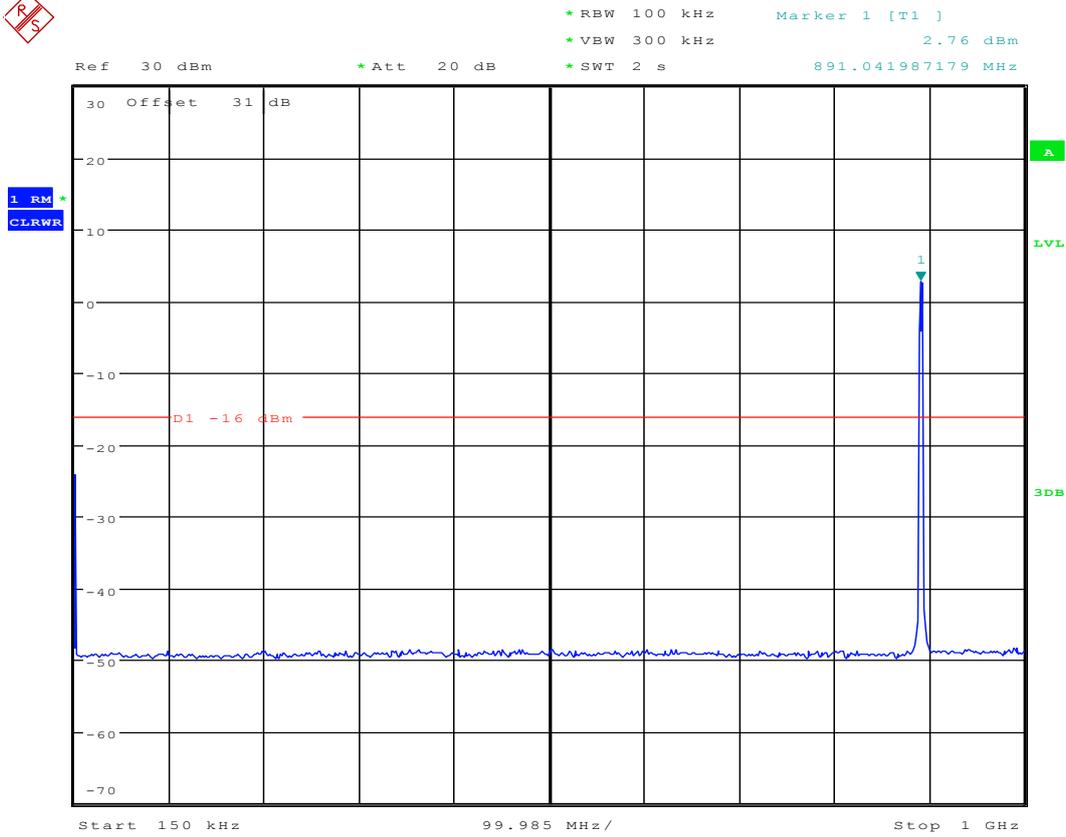


Date: 12.MAY.2016 17:16:13

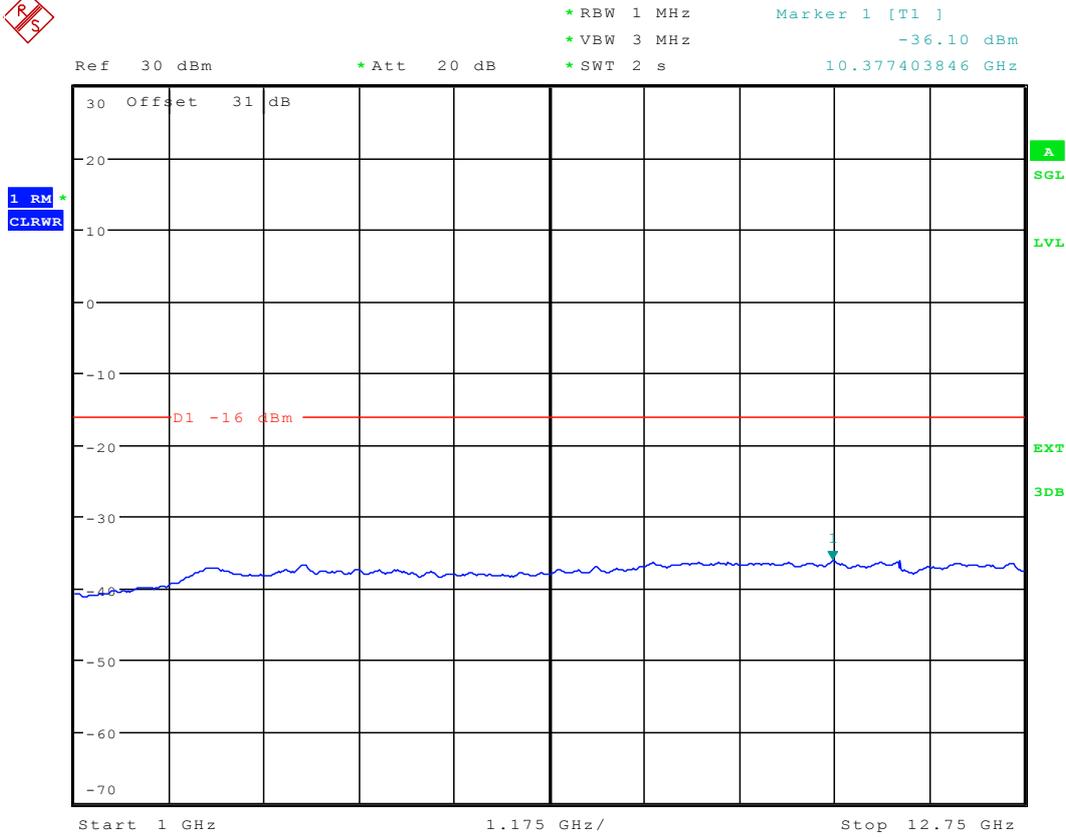
2.3 1L5M_T



Date: 21.APR.2016 18:47:14

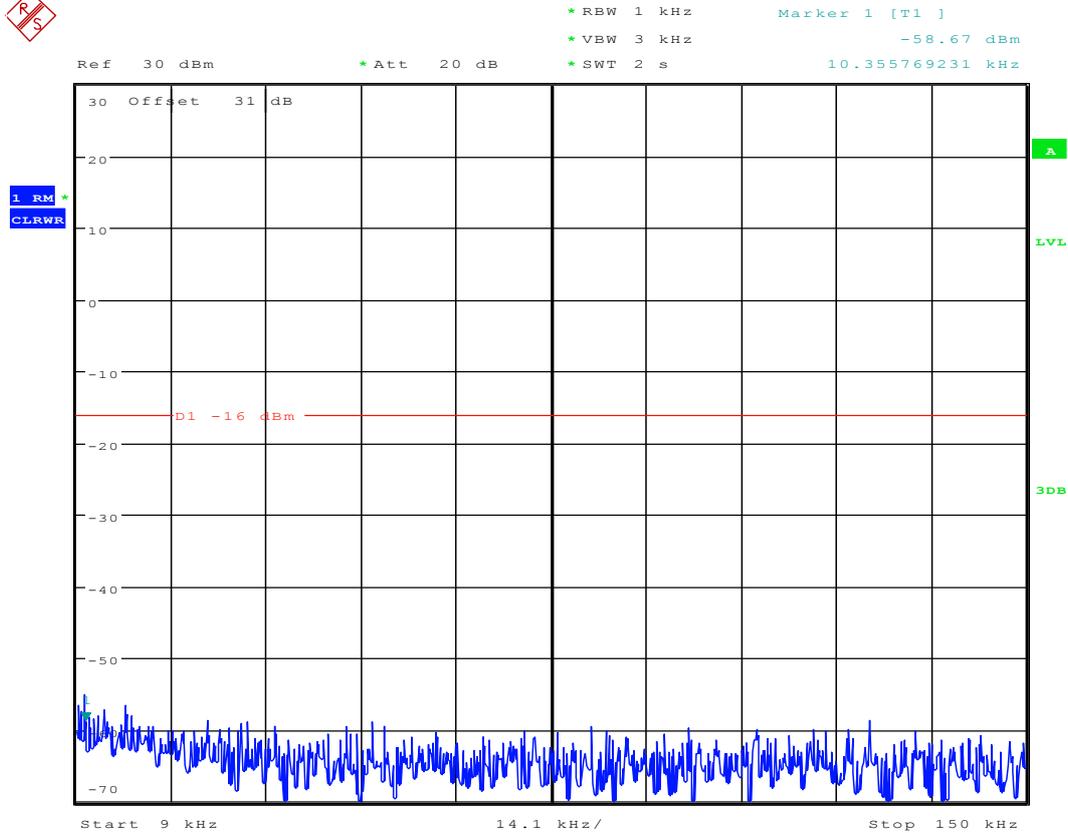


Date: 21.APR.2016 18:47:49

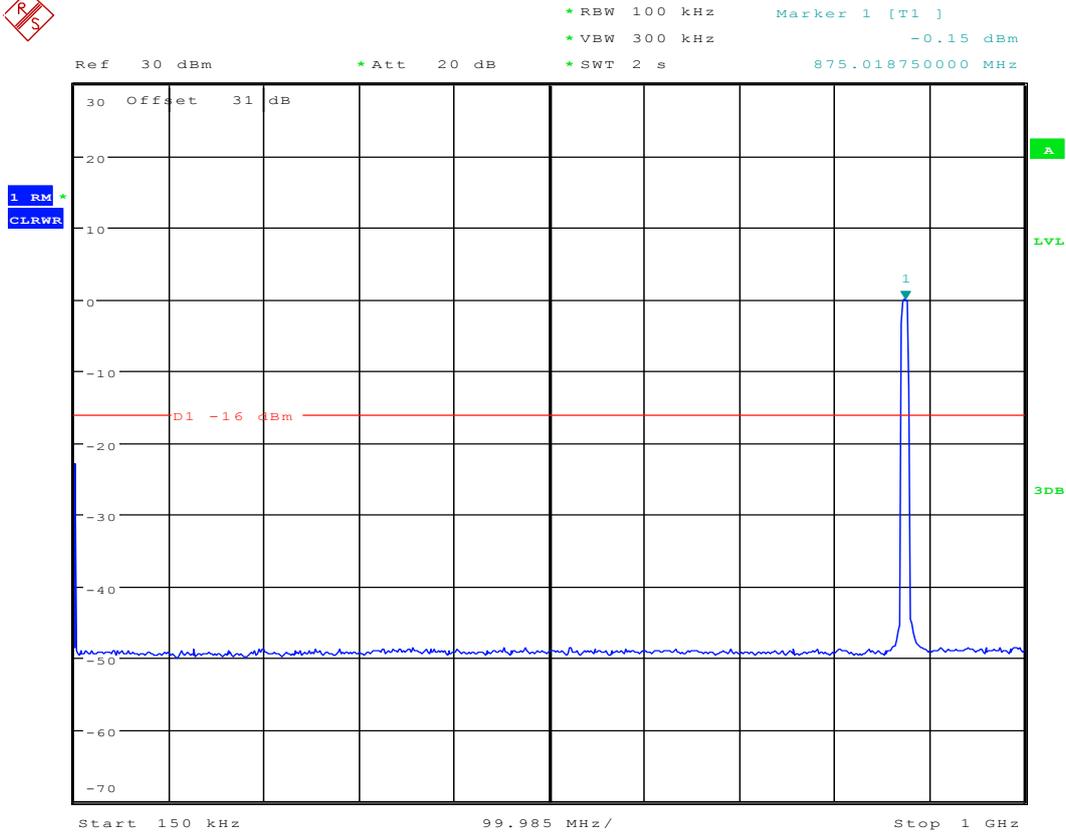


Date: 12.MAY.2016 17:16:41

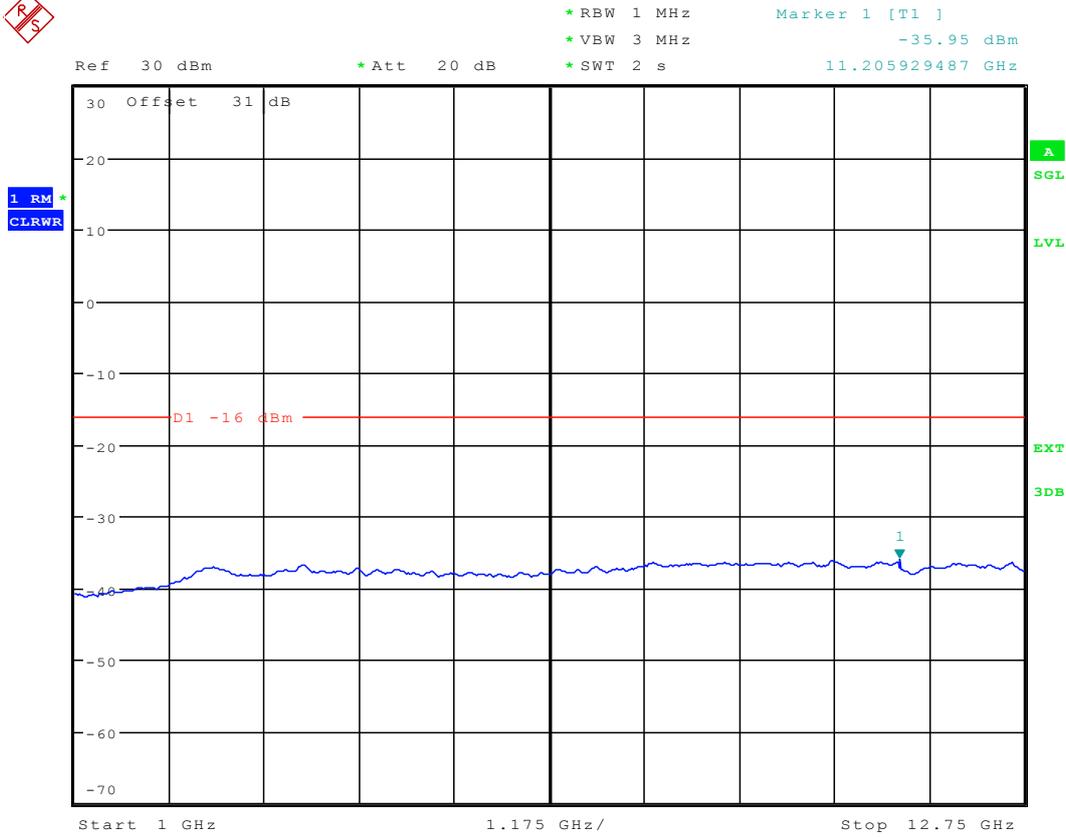
2.4 1L10M_B



Date: 21.APR.2016 19:05:44

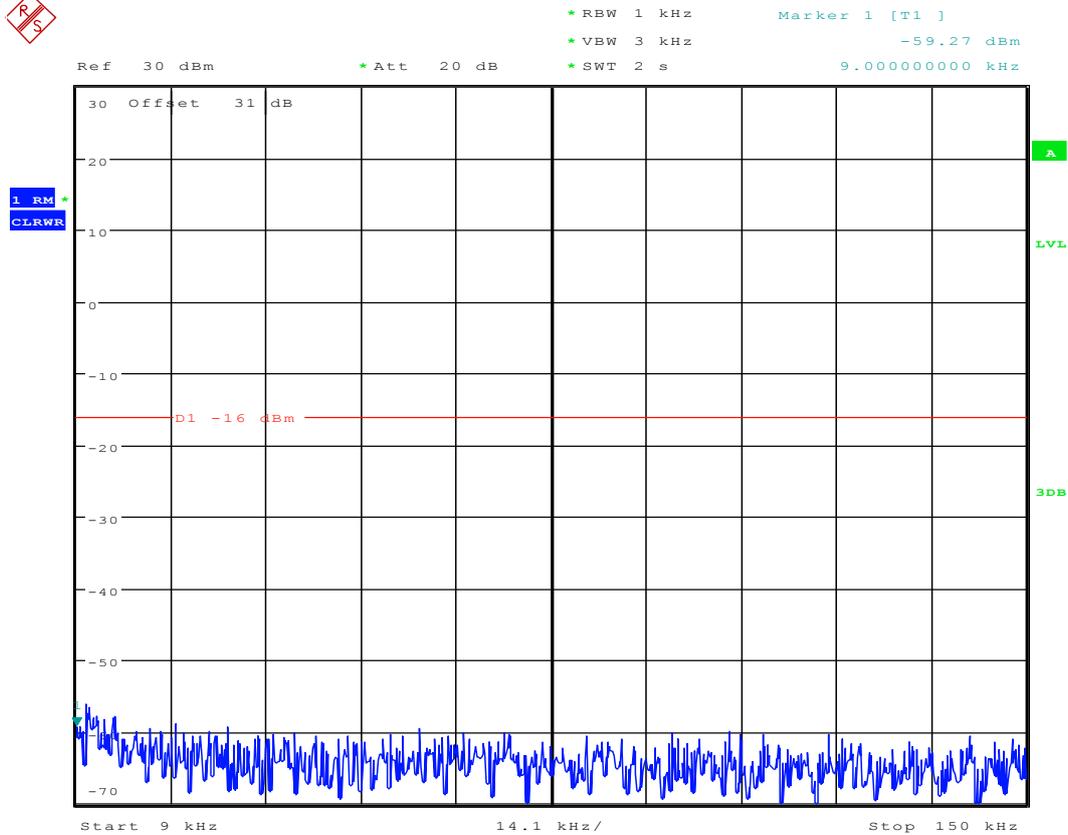


Date: 21.APR.2016 19:06:18

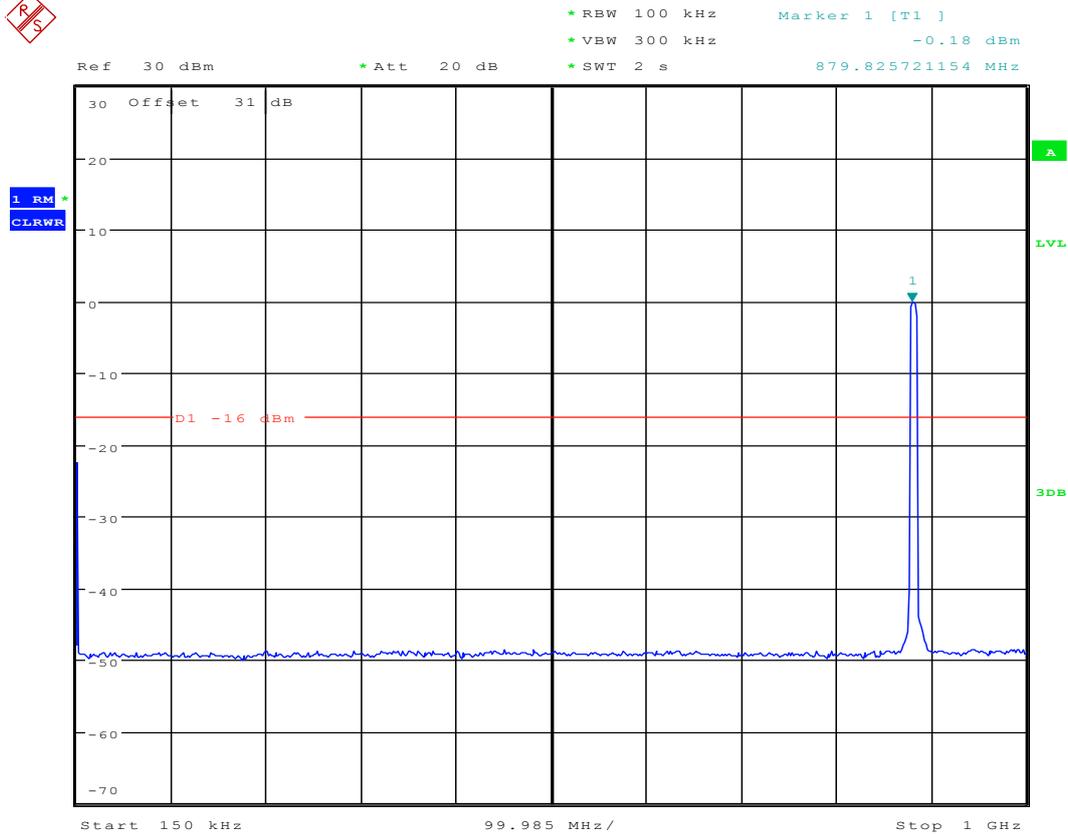


Date: 12.MAY.2016 17:23:11

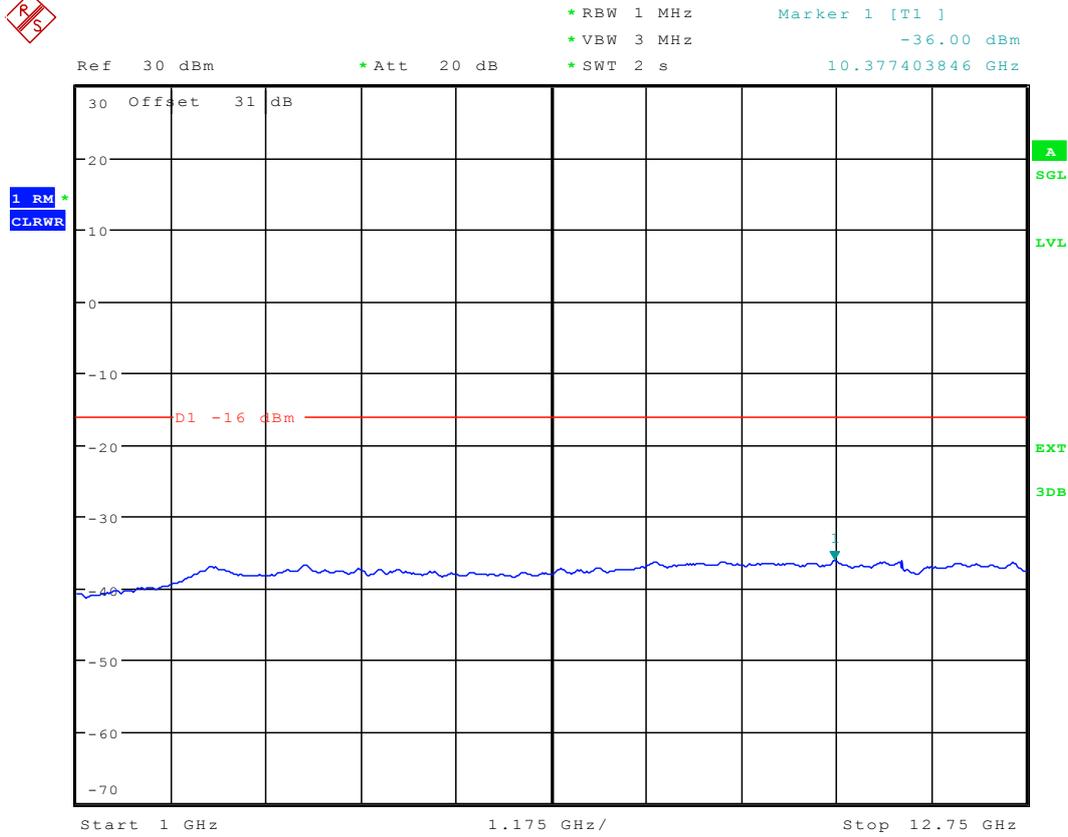
2.5 1L10M_M



Date: 21.APR.2016 19:11:33

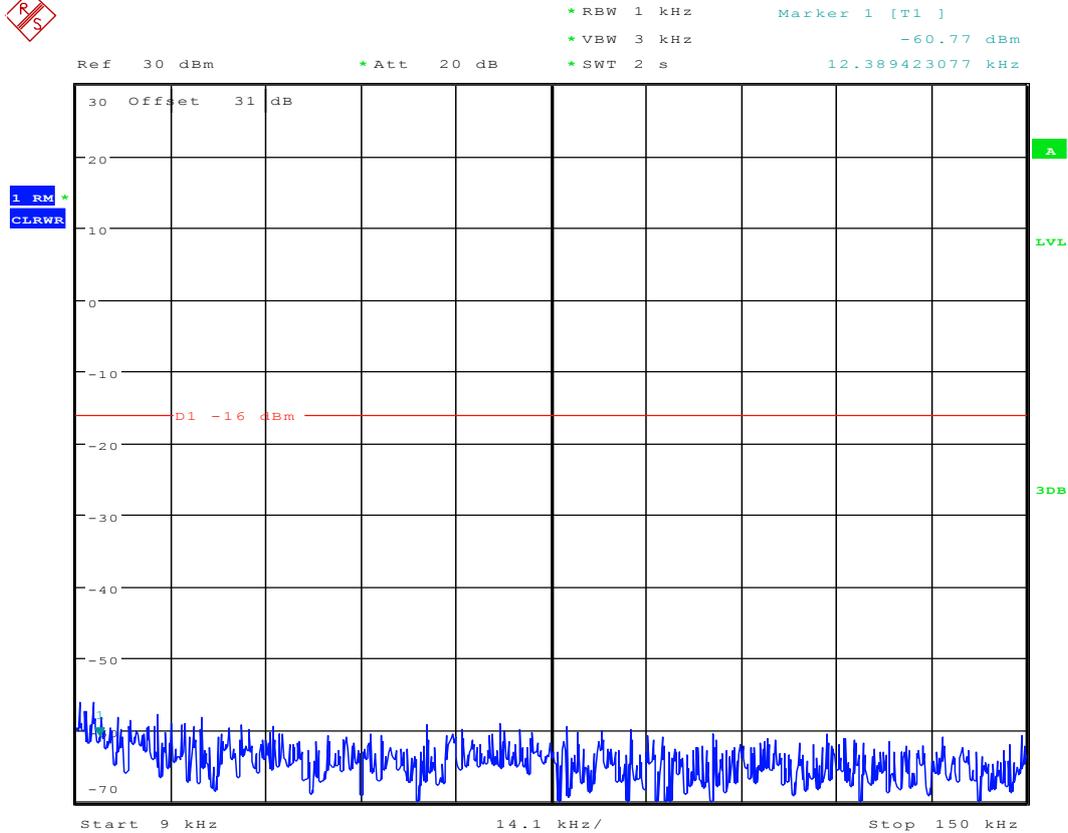


Date: 21.APR.2016 19:12:10

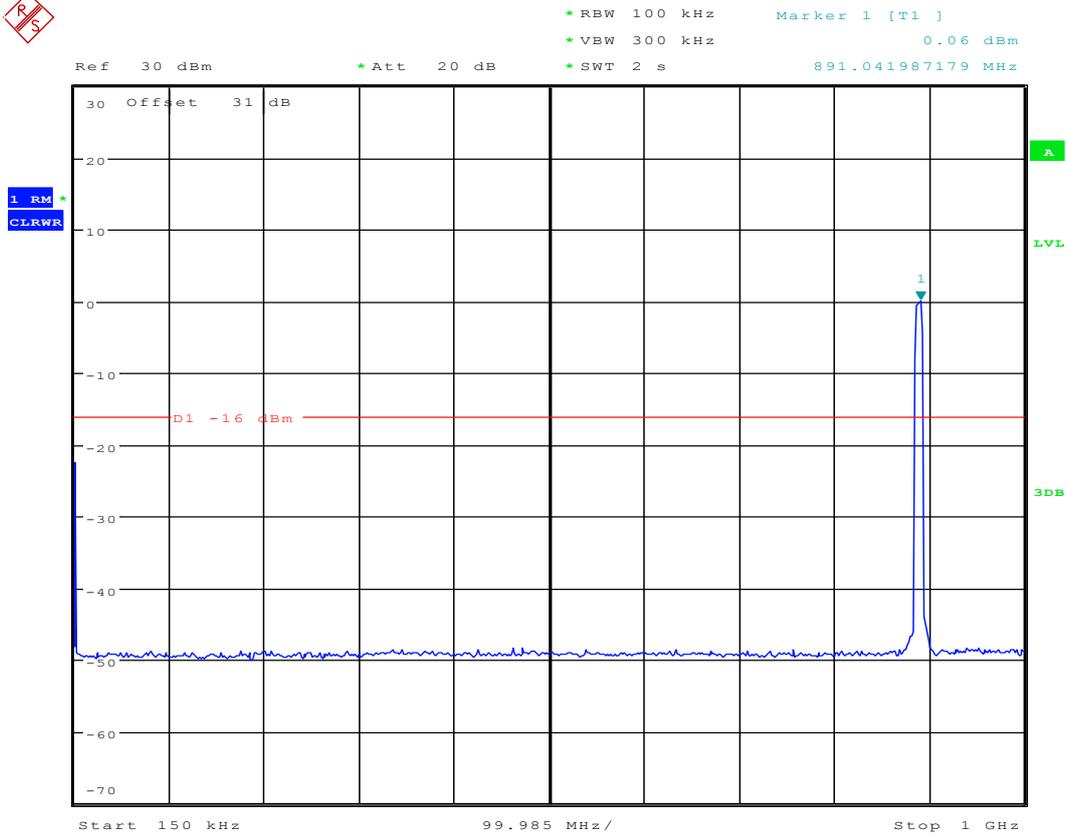


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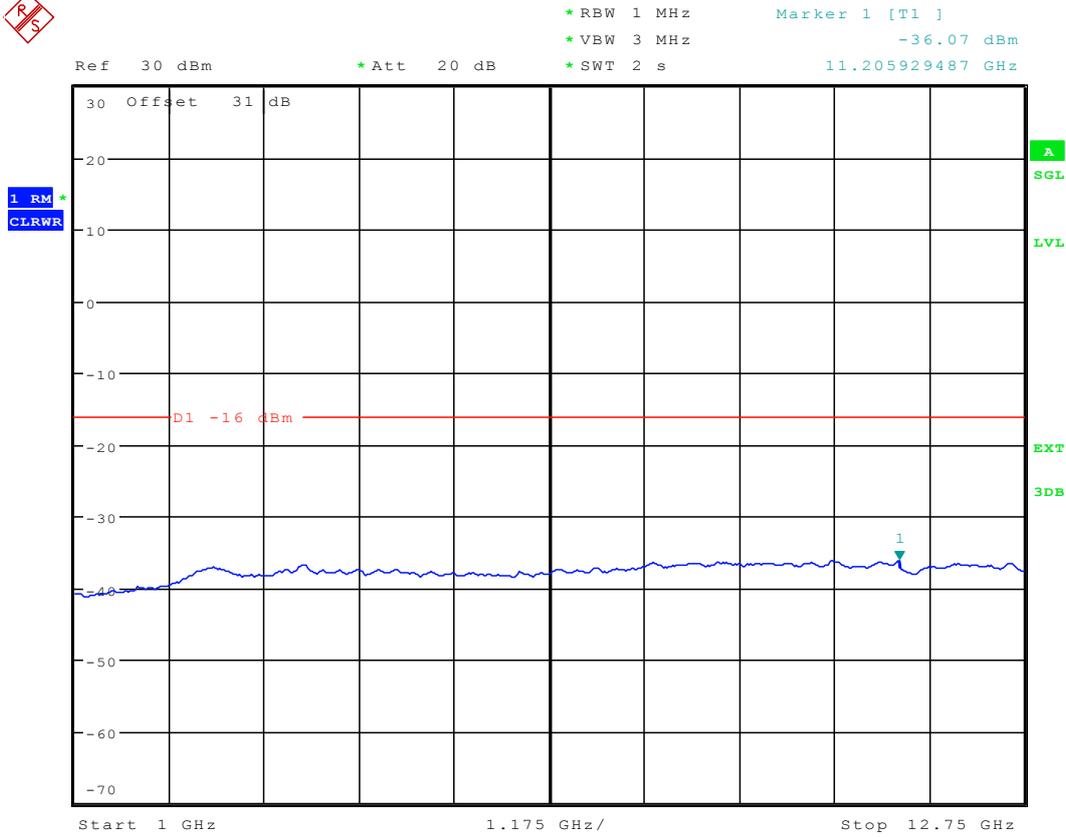
2.6 1L10M_T



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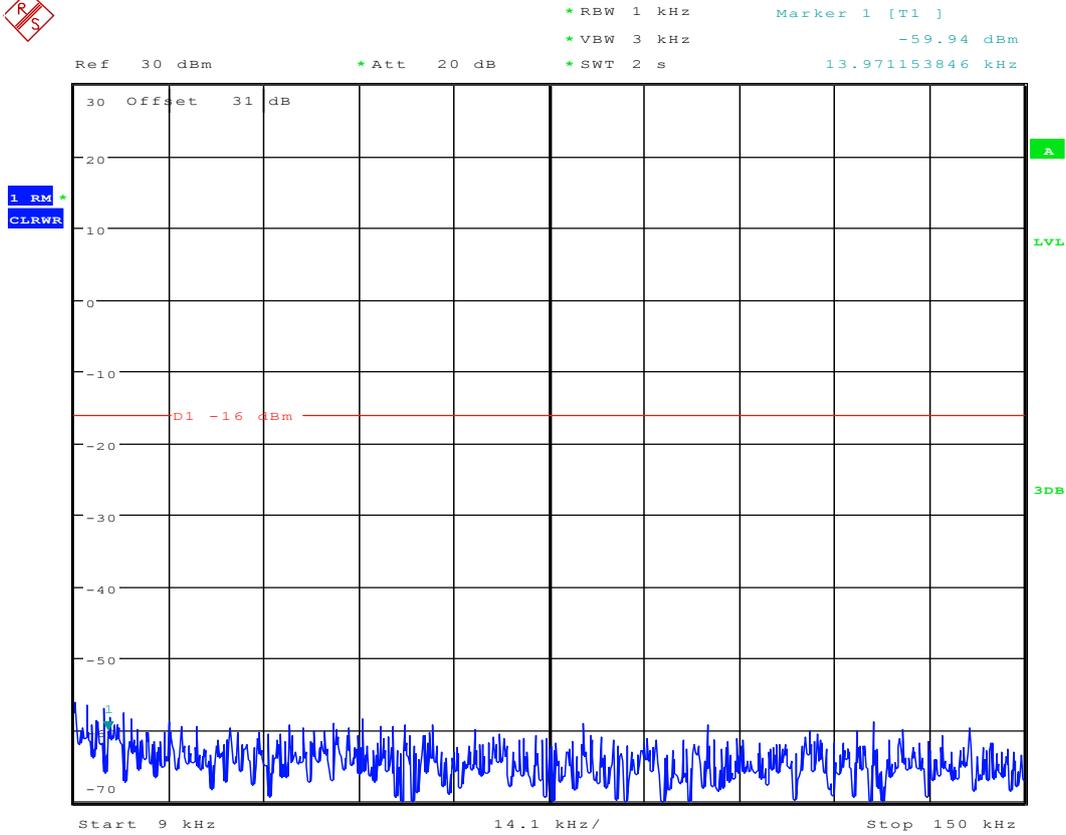


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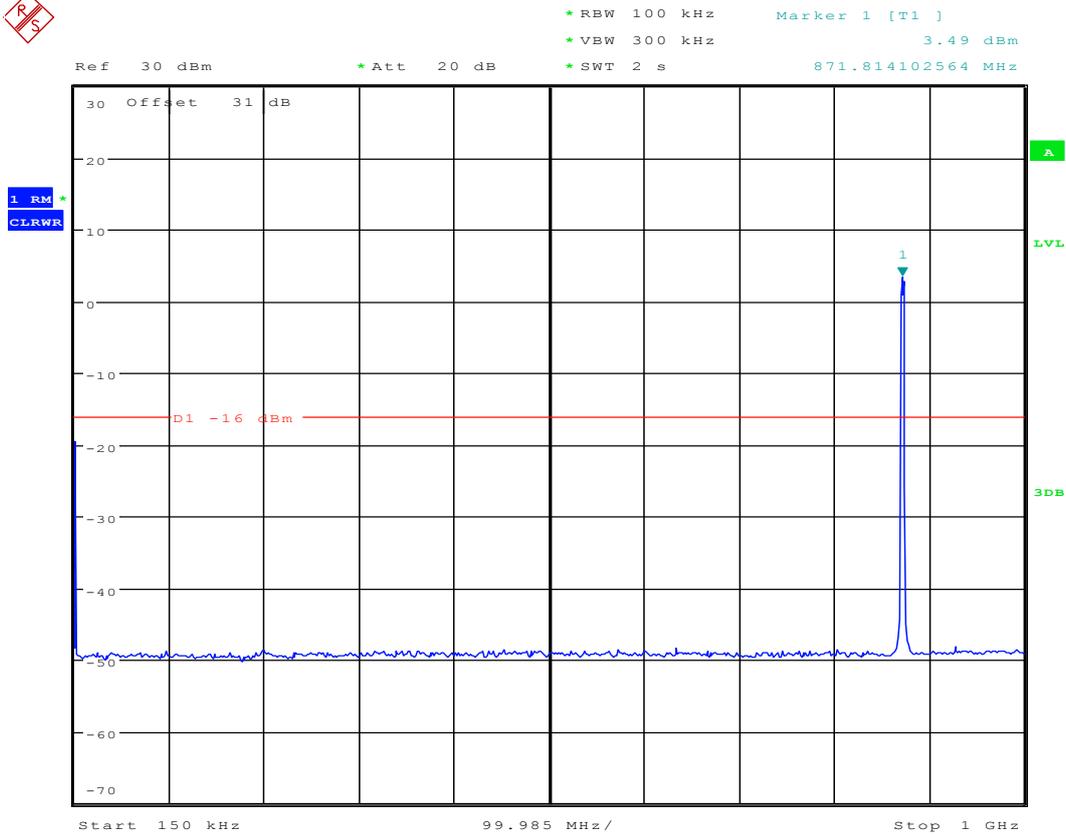


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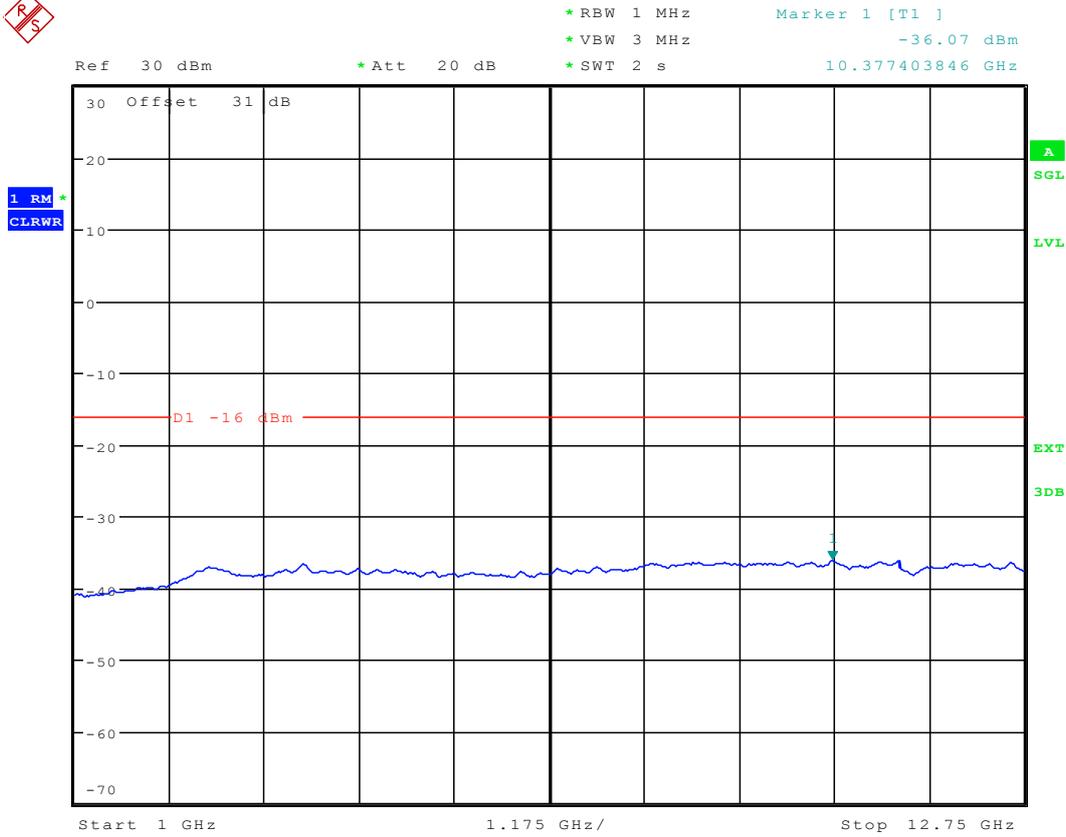
2.7 1U_B



Date: 21.APR.2016 14:04:30

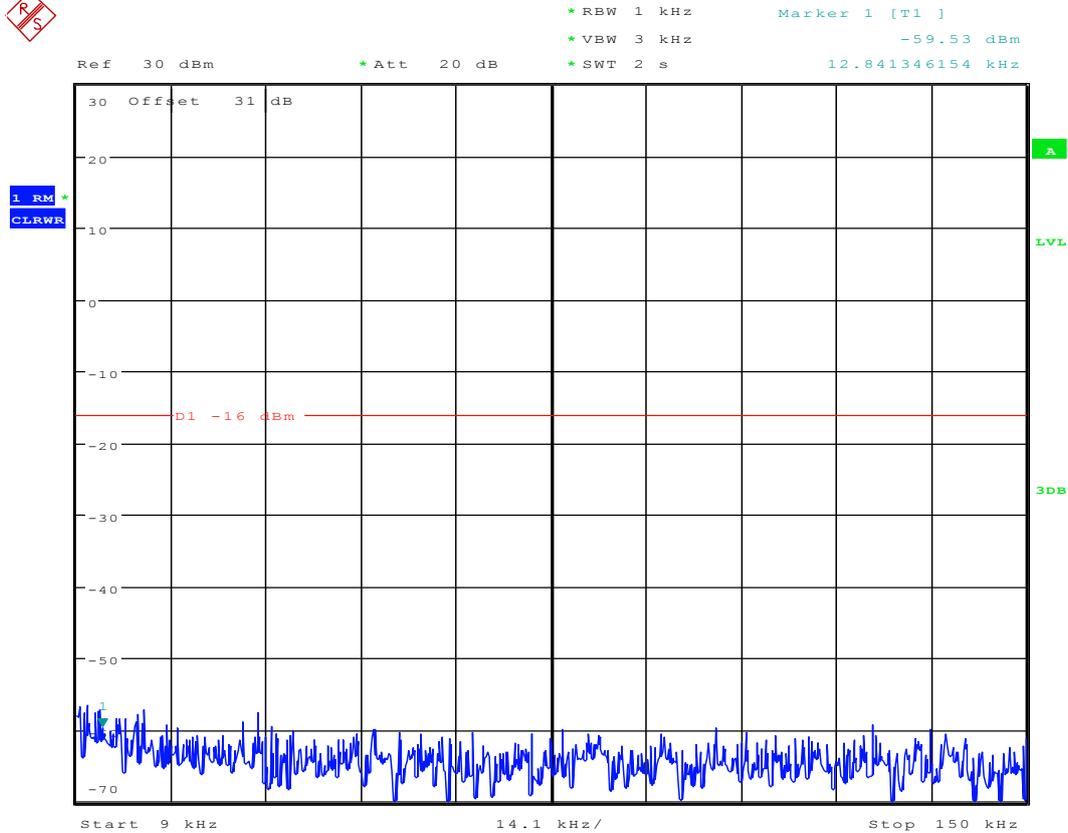


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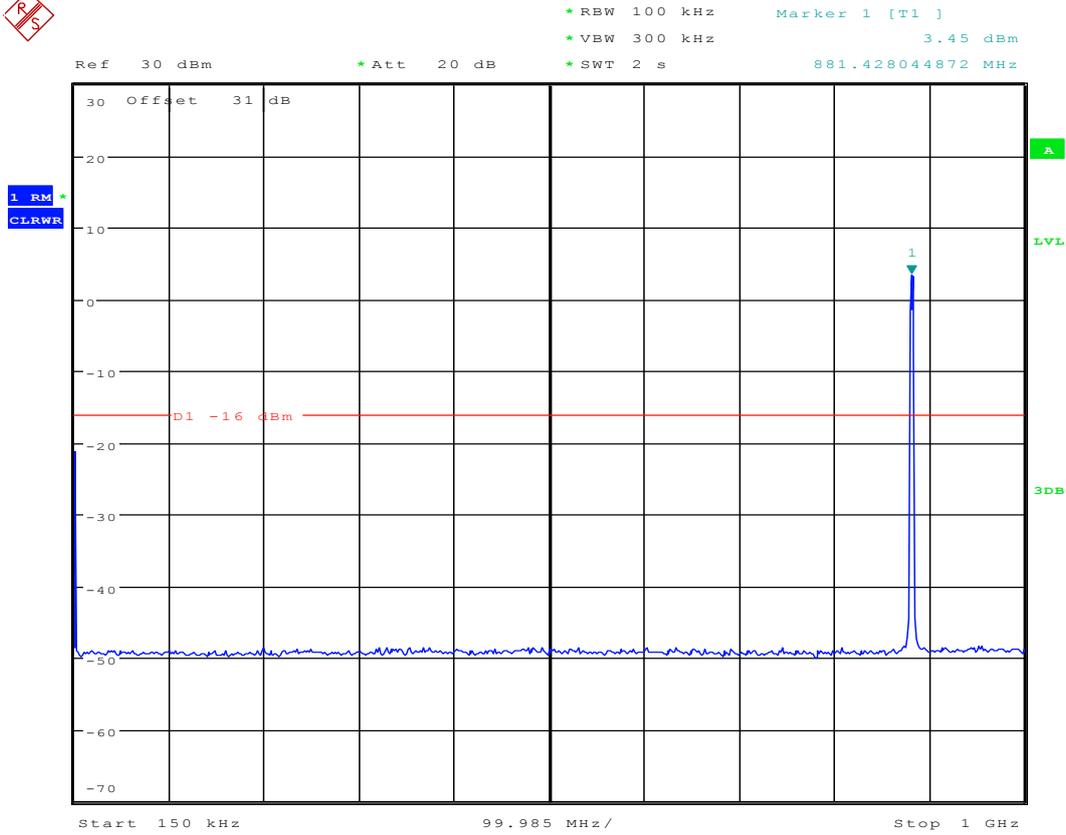


Date: 12.MAY.2016 17:37:49

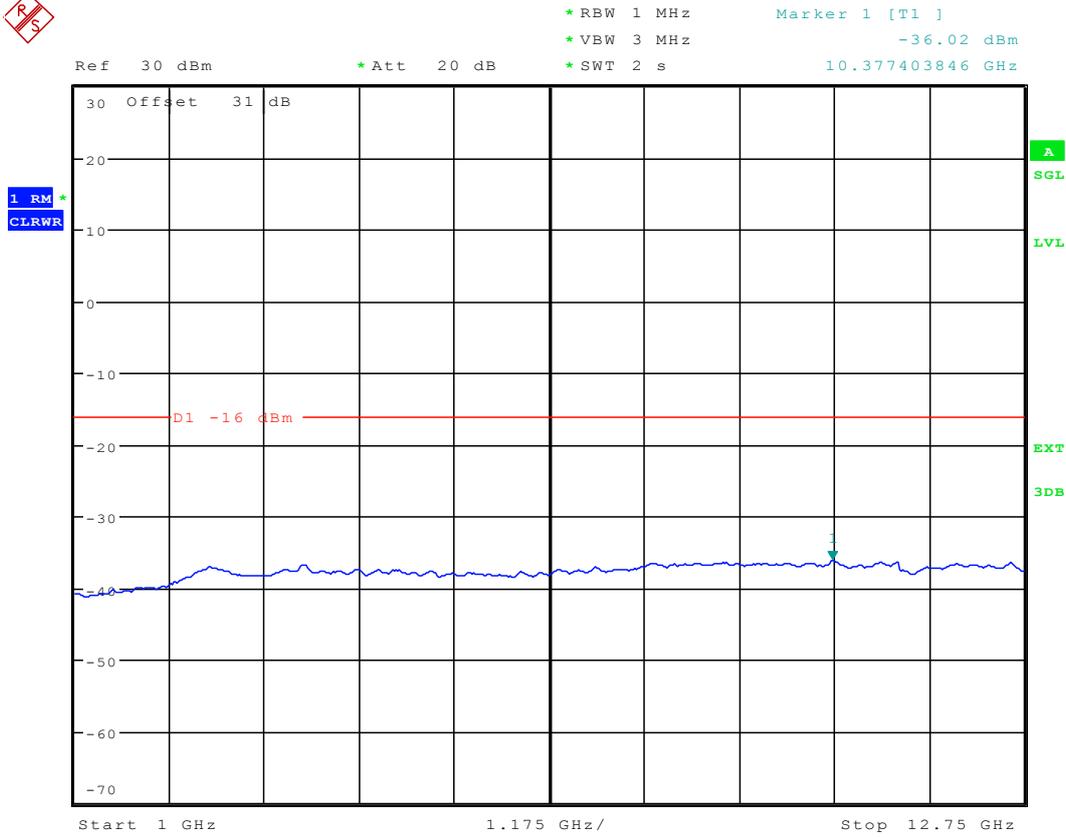
2.8 1U_M



Date: 21.APR.2016 16:40:41



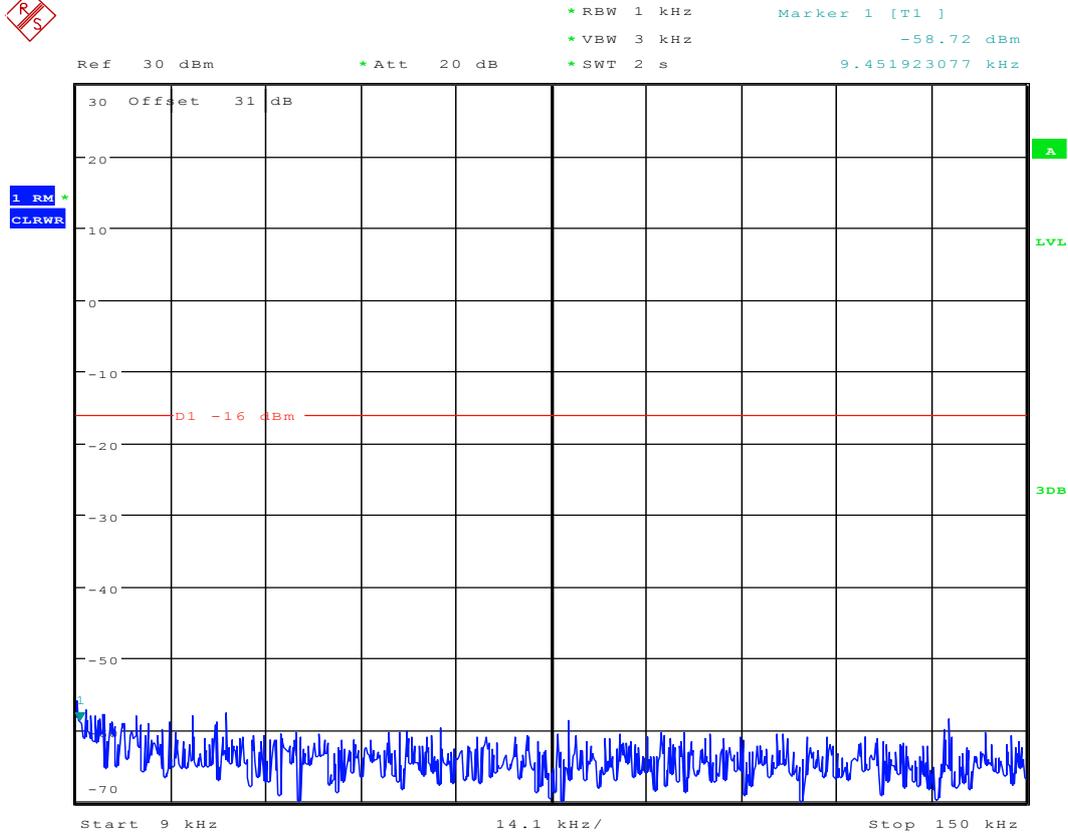
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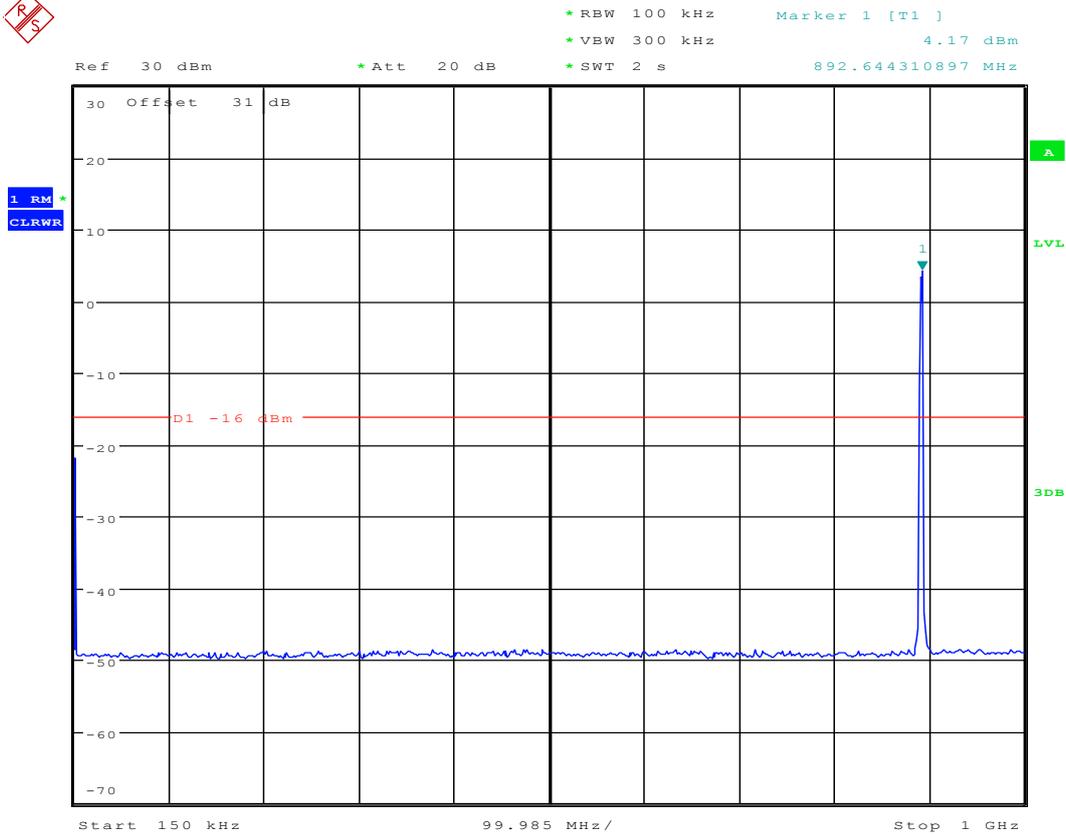
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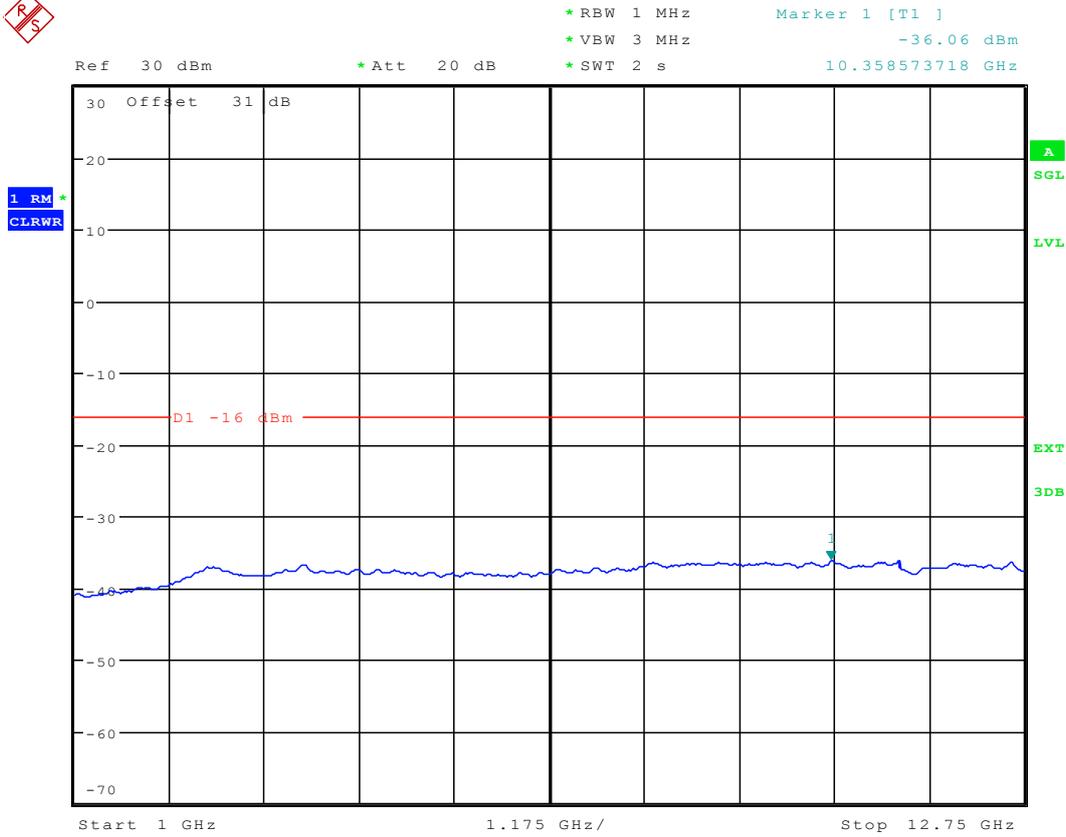
2.9 1U_T



Date: 21.APR.2016 16:59:07

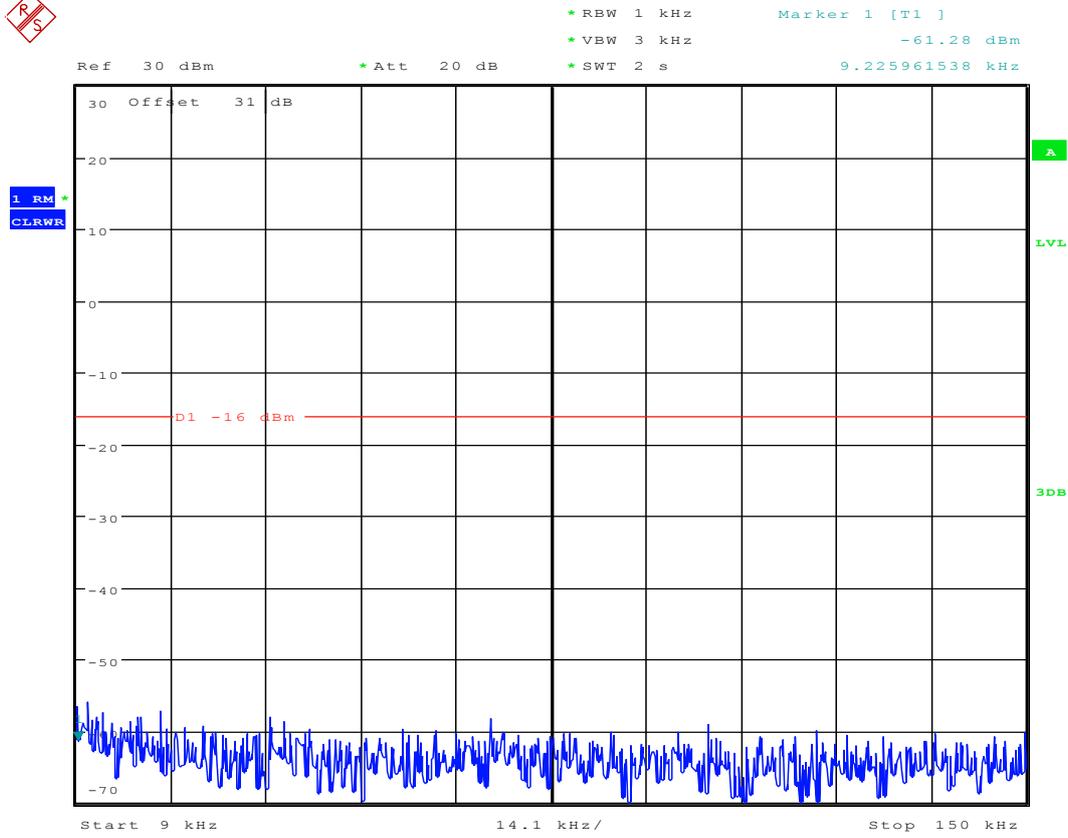


Date: 21.APR.2016 17:01:00

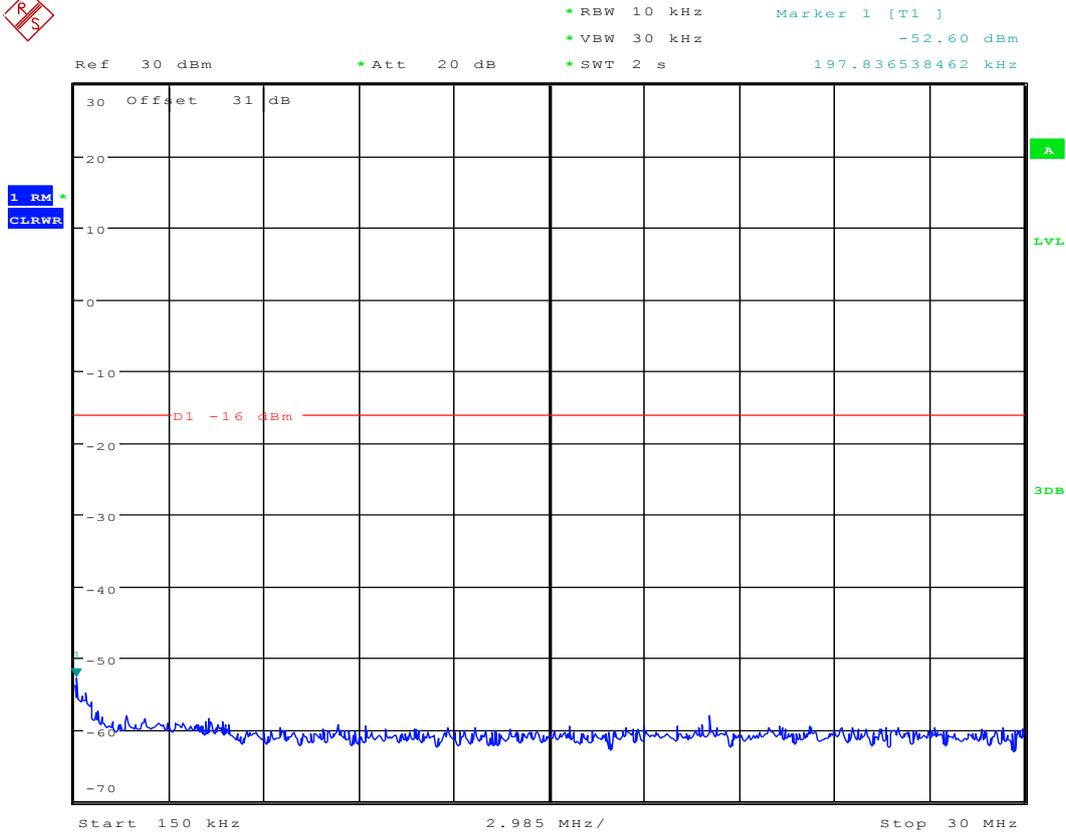


Date: 12.MAY.2016 17:40:49

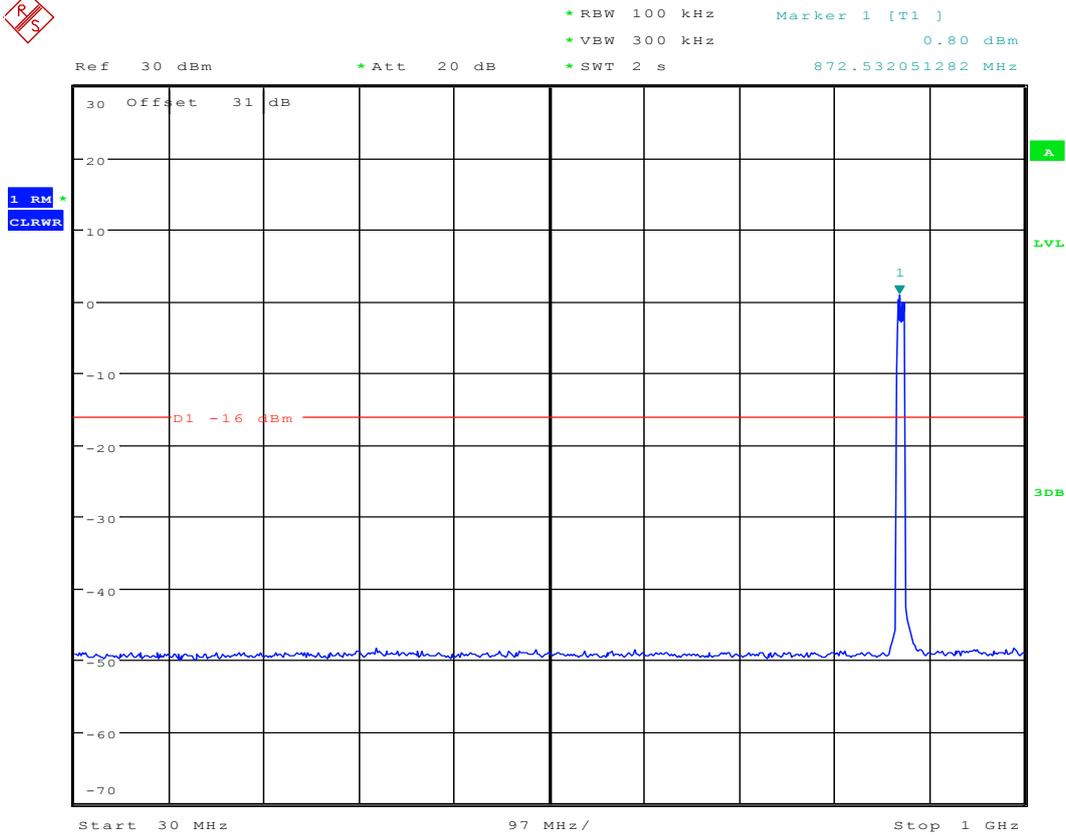
2.10 1U1L5M_B



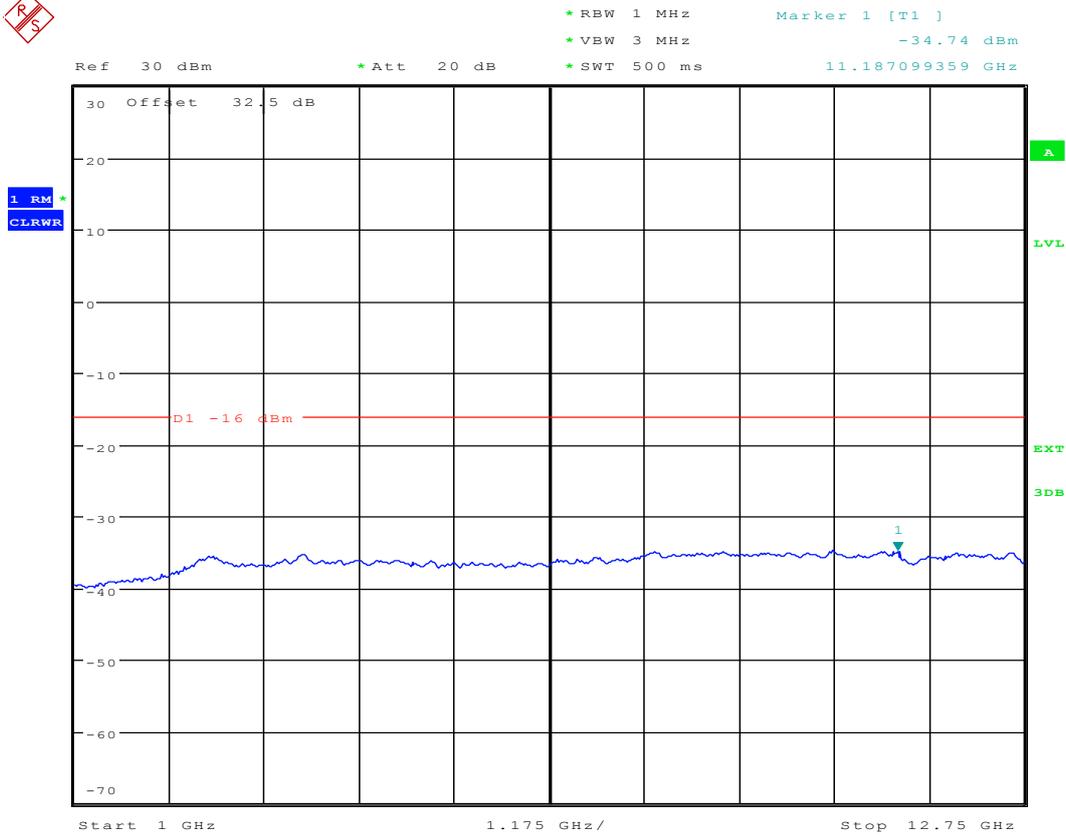
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Date: 22.APR.2016 11:35:30



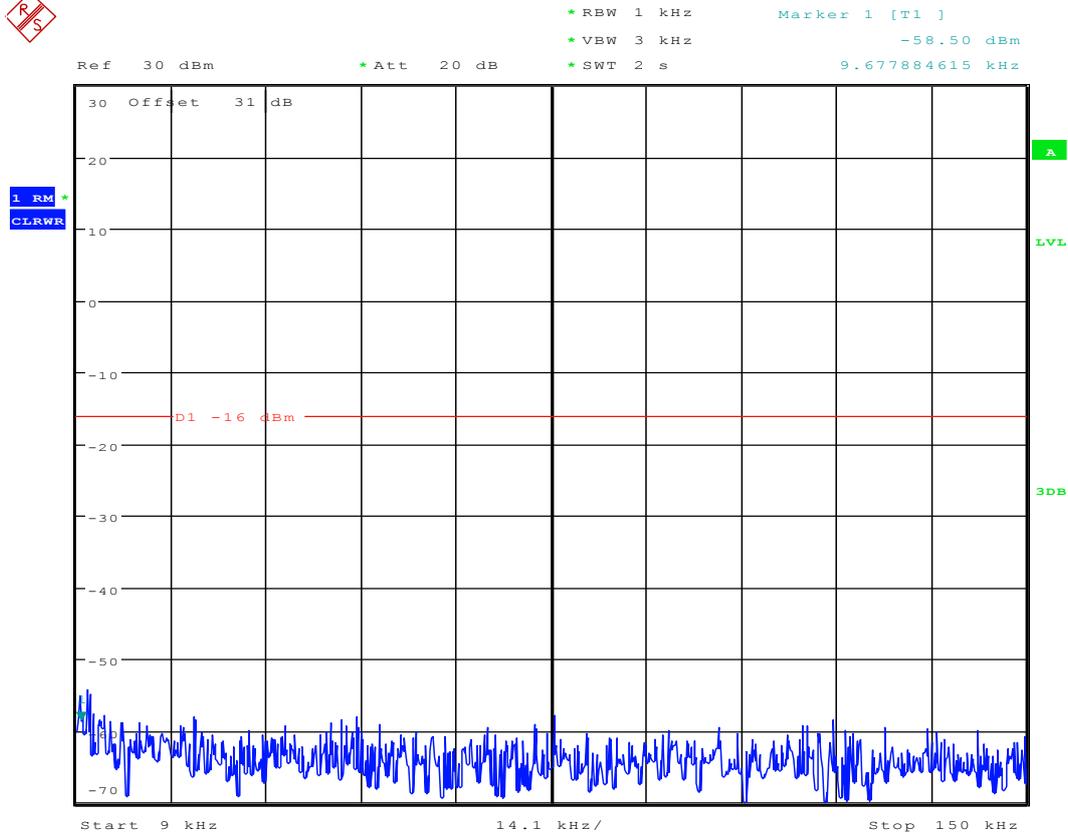
Date: 22.APR.2016 11:35:57



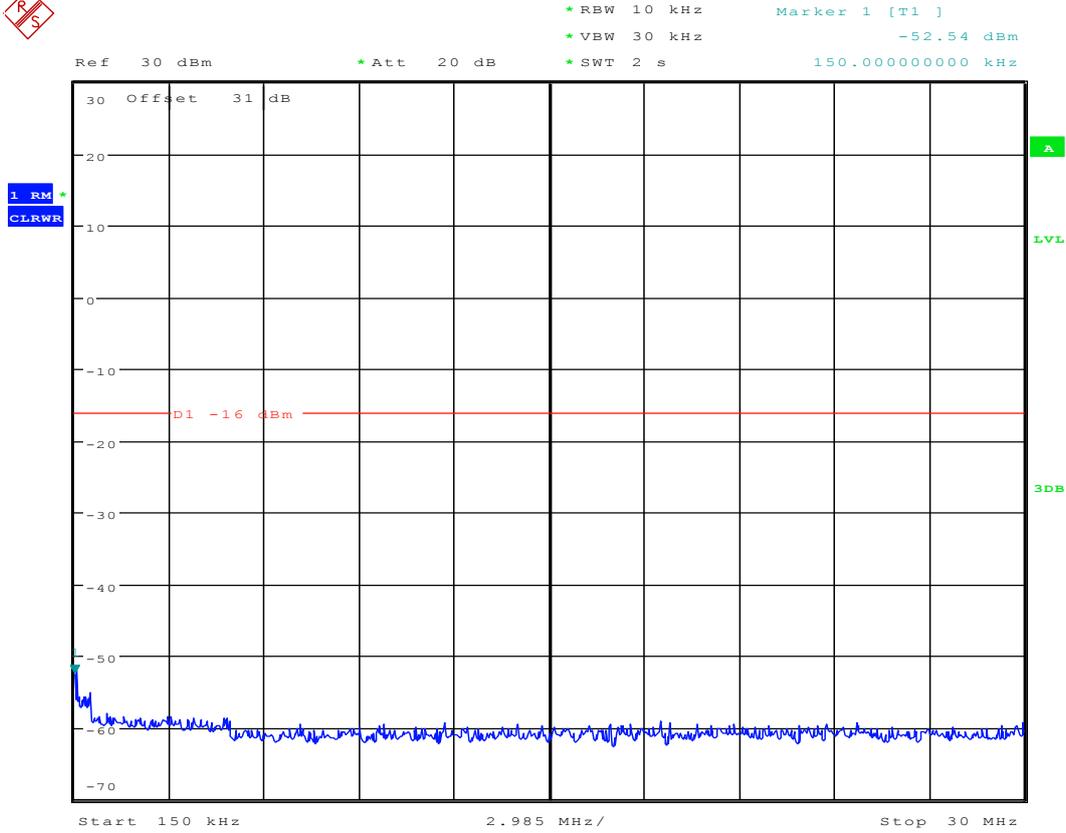
Date: 15.MAY.2016 23:47:25



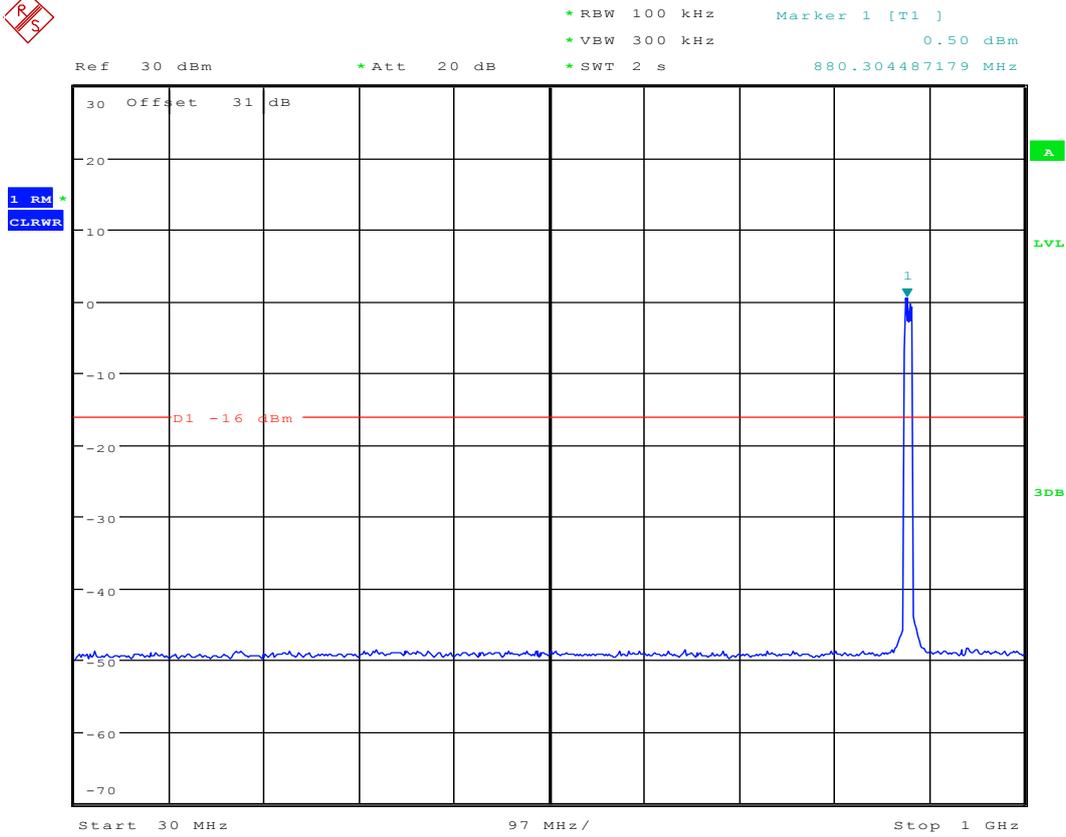
2.11 1U1L5M_M



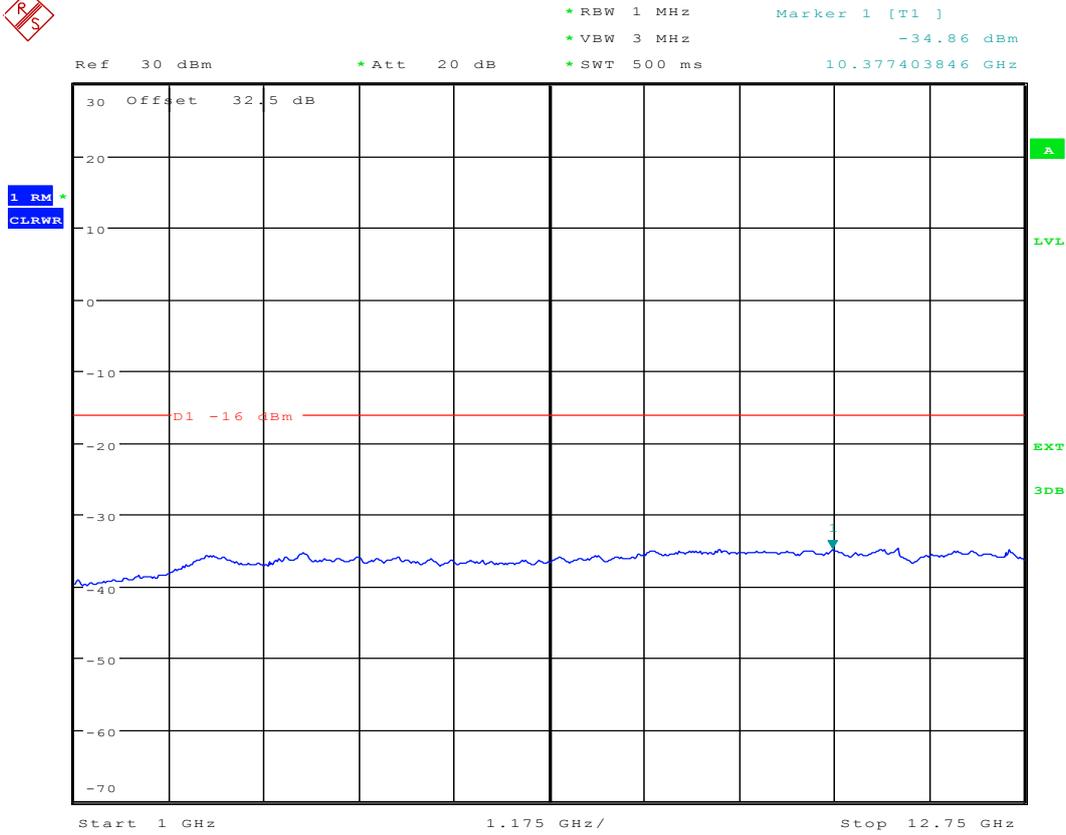
Date: 22.APR.2016 13:00:48



Date: 22.APR.2016 13:01:20

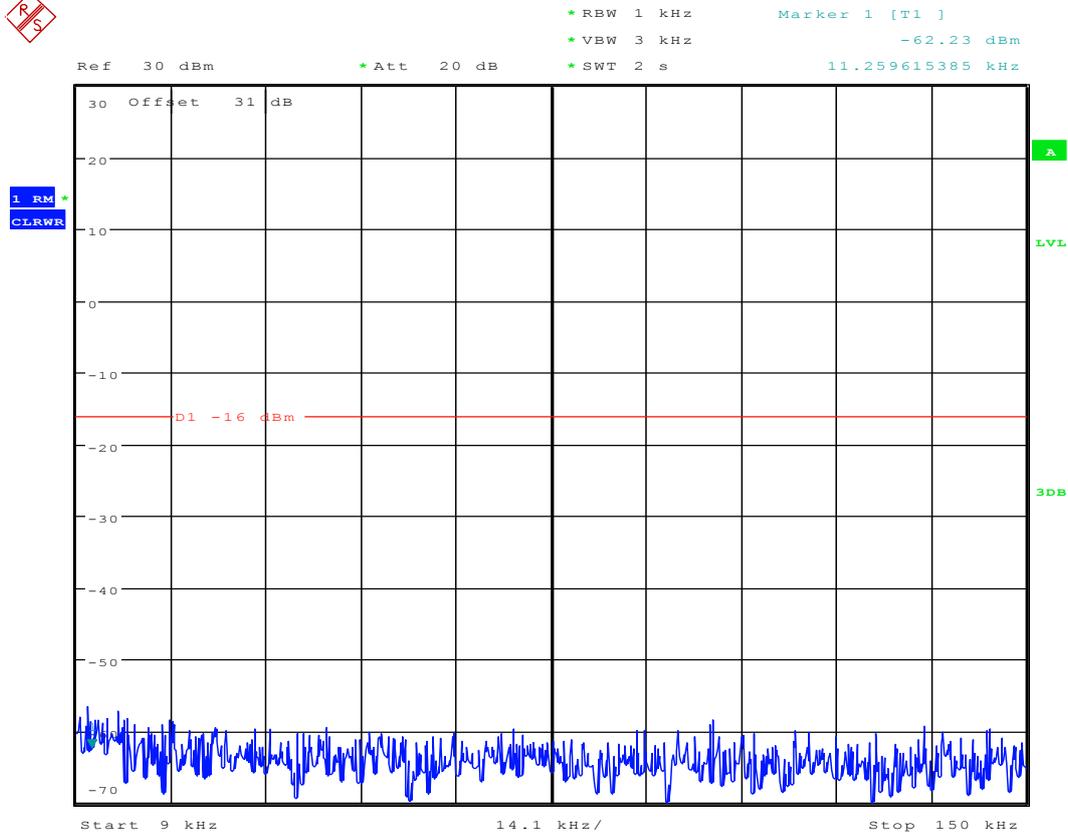


Date: 22.APR.2016 13:02:11

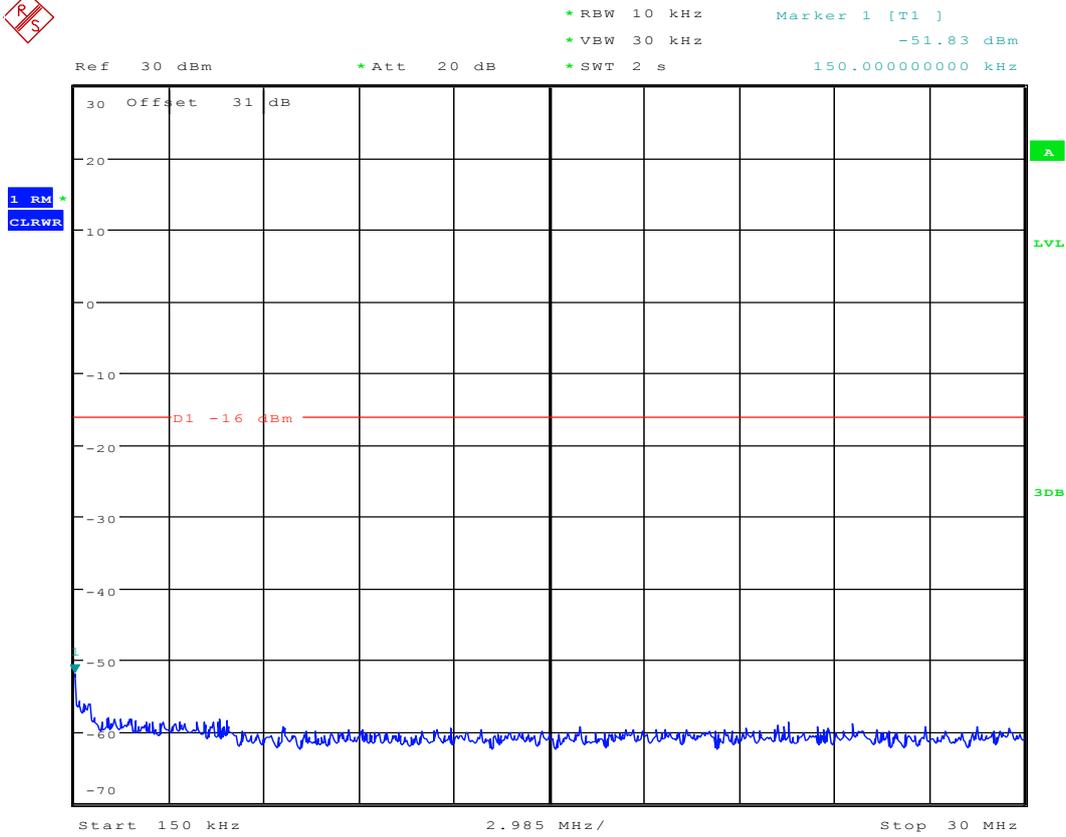


Date: 15.MAY.2016 23:48:17

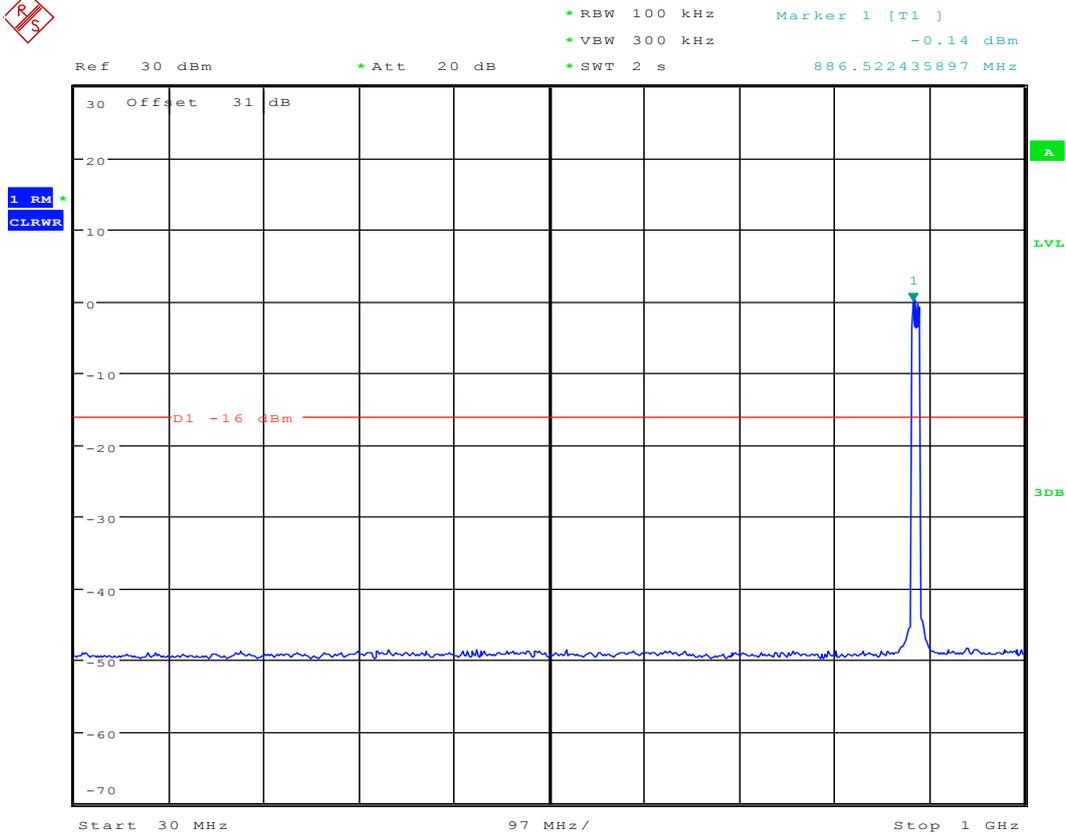
2.12 1U1L5M_T



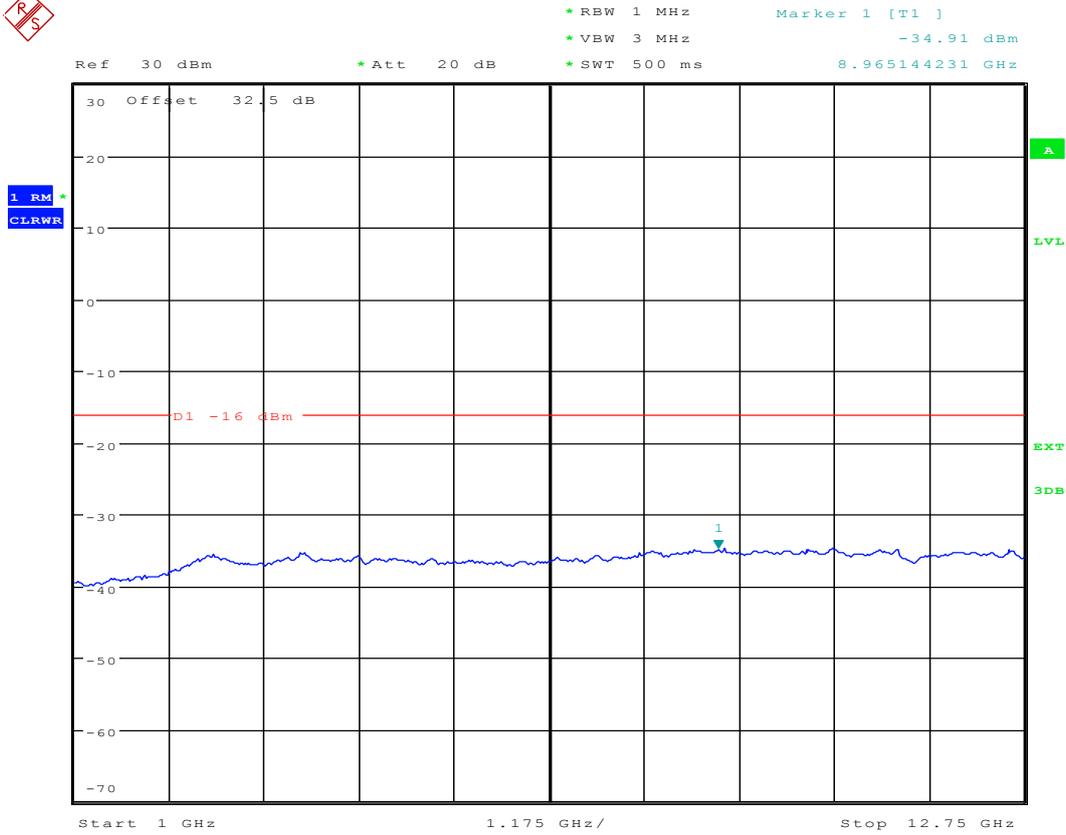
Date: 22.APR.2016 12:39:32



Date: 22.APR.2016 12:40:18



Date: 22.APR.2016 12:41:22



Date: 15.MAY.2016 23:51:18



Appendix E: Radiated (Spurious) Emissions



1 Result Table

EUT Conf.	Measured Curve Conformed to the Emission Limit?	Verdict
1L5M_M (Worst case)	Yes	Pass

Note: The setting of analyzer is below

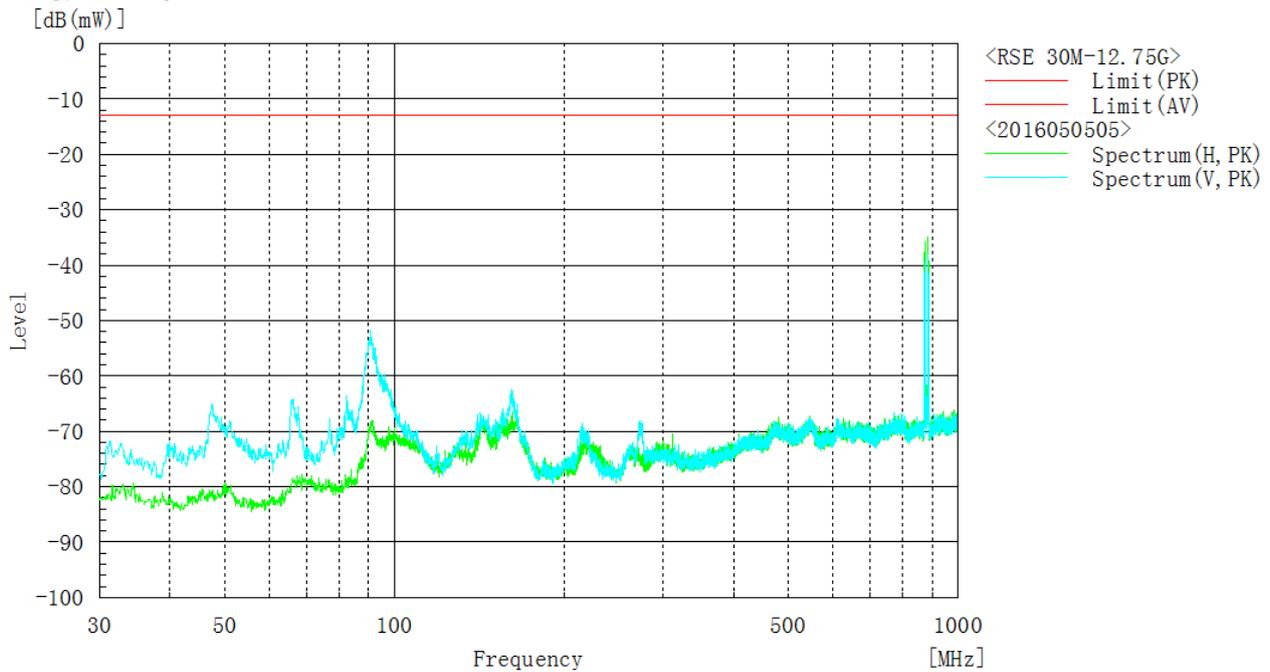
Frequency range	RBW	Detector
30MHz to 1GHz	1MHz	Average
1GHz to 18GHz	1MHz	Average

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

2 Test Plot

2.1 30MHz-1GHz

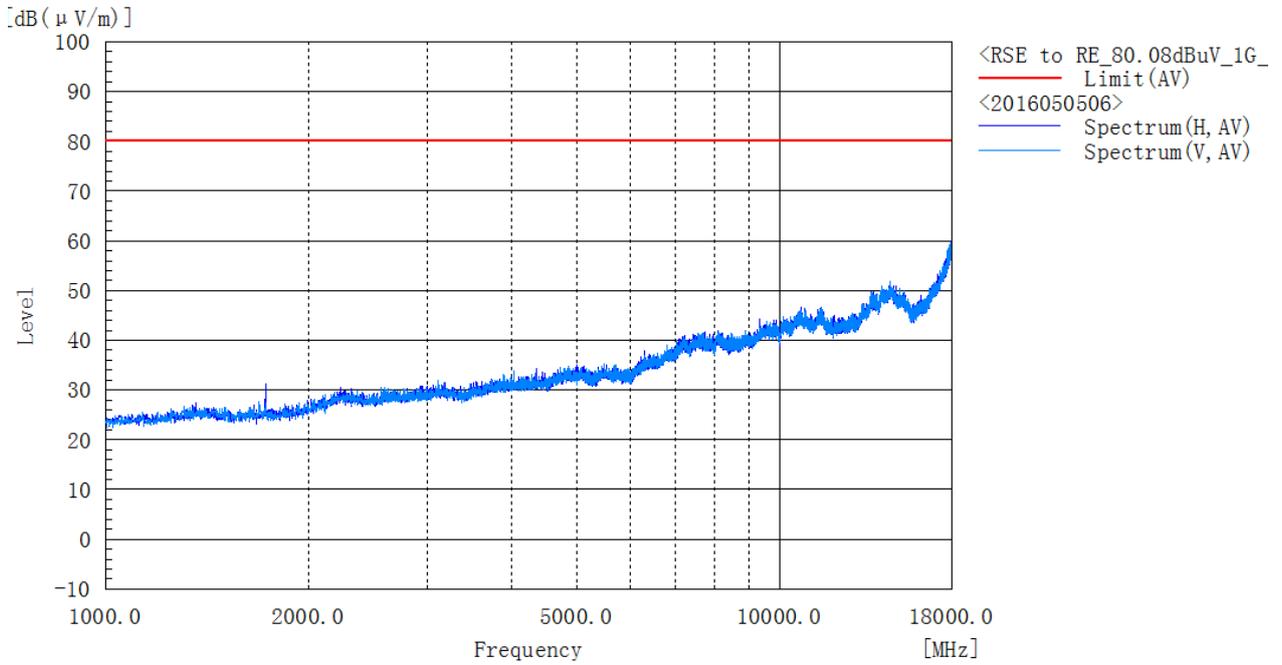
Model	:	Standard	:
Serial	:	Remark1	:
Operator	:	Remark2	:
AC Power	:	Remark3	:
Temp, Humidity	:	Remark4	:





2.2 1GHz-18GHz

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





Appendix F: 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
1L5M_M	100%	-30 °C	-2.75	-0.00312	-0.00192	Pass
		-20 °C	-1.18	-0.00134	-0.00014	Pass
		-10 °C	-1.19	-0.00135	-0.00015	Pass
		0 °C	-1.56	-0.00177	-0.00057	Pass
		+10 °C	-1.78	-0.00202	-0.00082	Pass
		+20 °C	-1.06	-0.00120	---	Pass
		+30 °C	-1.23	-0.00140	-0.00019	Pass
		+40 °C	-1.65	-0.00187	-0.00067	Pass
		+50 °C	-2.15	-0.00244	-0.00124	Pass

(2) Frequency Error vs. Voltage:

EUT Conf.	Temperature	Voltage	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Verdict
1L5M_M	+20 °C	85 %	-1.89	-0.00214	-0.00094	Pass
		100 %	-1.06	-0.00120	---	Pass
		115 %	-1.68	-0.00191	-0.00070	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 G: Receiver Spurious Emissions



1 Result Table

(Not applicable)

2 Test Plot

(Not applicable)

END