



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	18.48	Pass
1L5M_M	18.55	Pass
1L5M_T	18.46	Pass
1L10M_B	18.49	Pass
1L10M_M	18.52	Pass
1L10M_T	18.47	Pass
1U_B	18.54	Pass
1U_M	18.52	Pass
1U_T	18.56	Pass
2U_B	15.54,15.51	Pass
2U_M	15.52,15.53	Pass
2U_T	15.53,15.55	Pass
1U1L5M_B	15.52,15.48	Pass
1U1L5M_M	15.51,15.50	Pass
1U1L5M_T	15.49,15.48	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	8.59	Pass
1L5M_M	8.53	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	8.65	Pass
1U_B	7.76	Pass
1U_M	7.76	Pass
1U_T	7.69	Pass

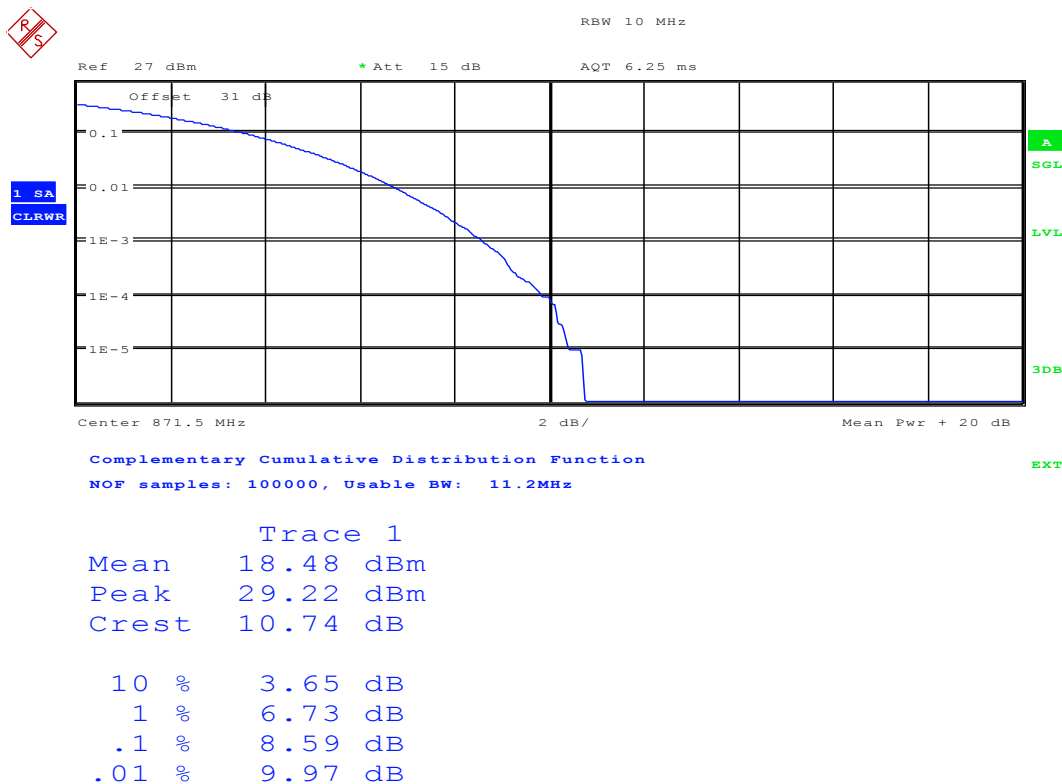


2 Test Plot

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

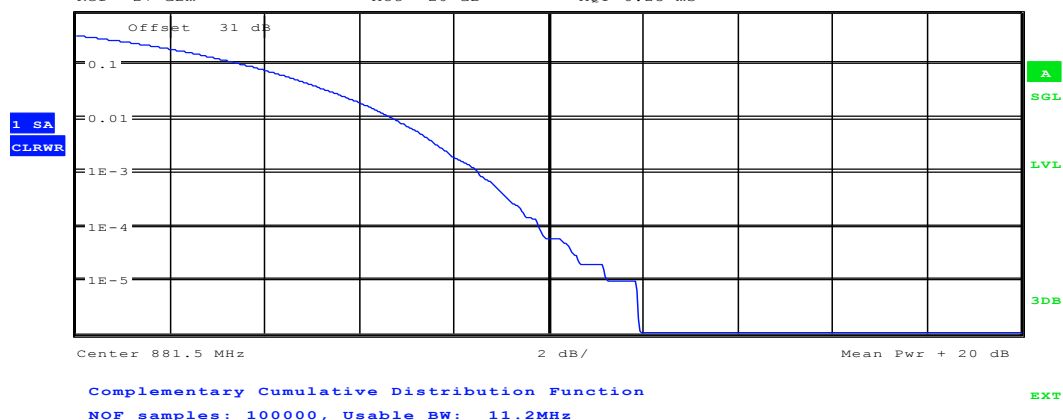
2.1 Peak-to-Average Ratio

2.1.1 1L5M_B



Date: 18.MAY.2016 23:30:48

2.1.2 1L5M_M



Trace 1

Mean 18.63 dBm

Peak 30.55 dBm

Crest 11.92 dB

10 % 3.65 dB

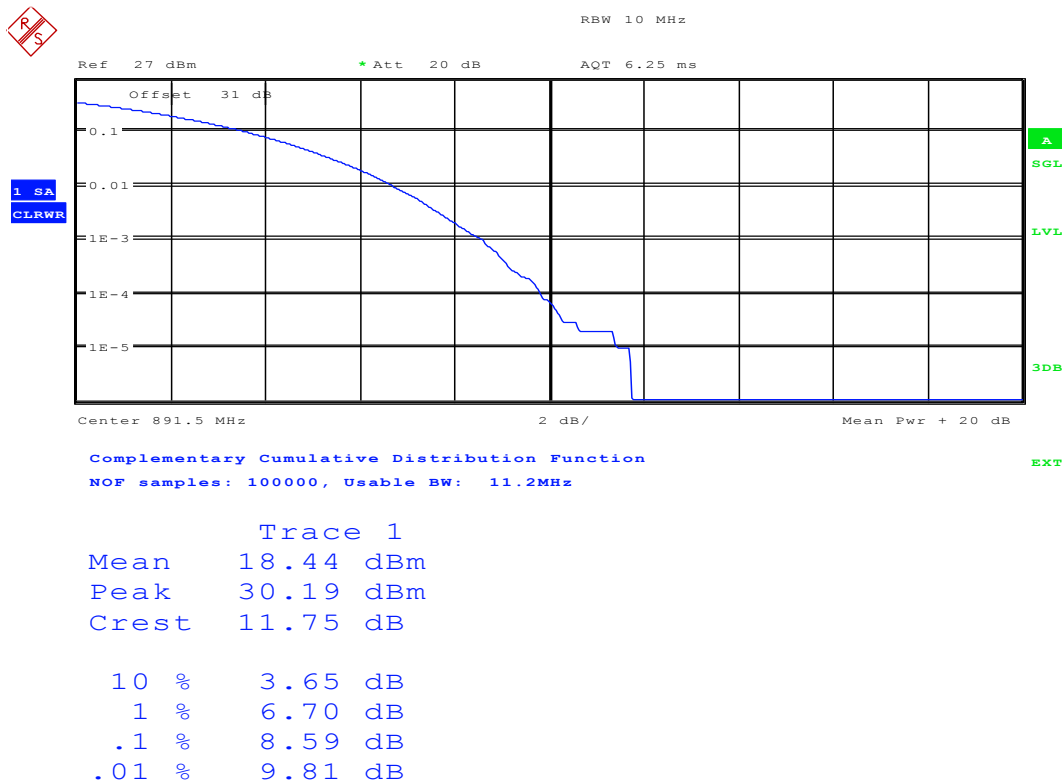
1 % 6.73 dB

.1 % 8.53 dB

.01 % 9.81 dB

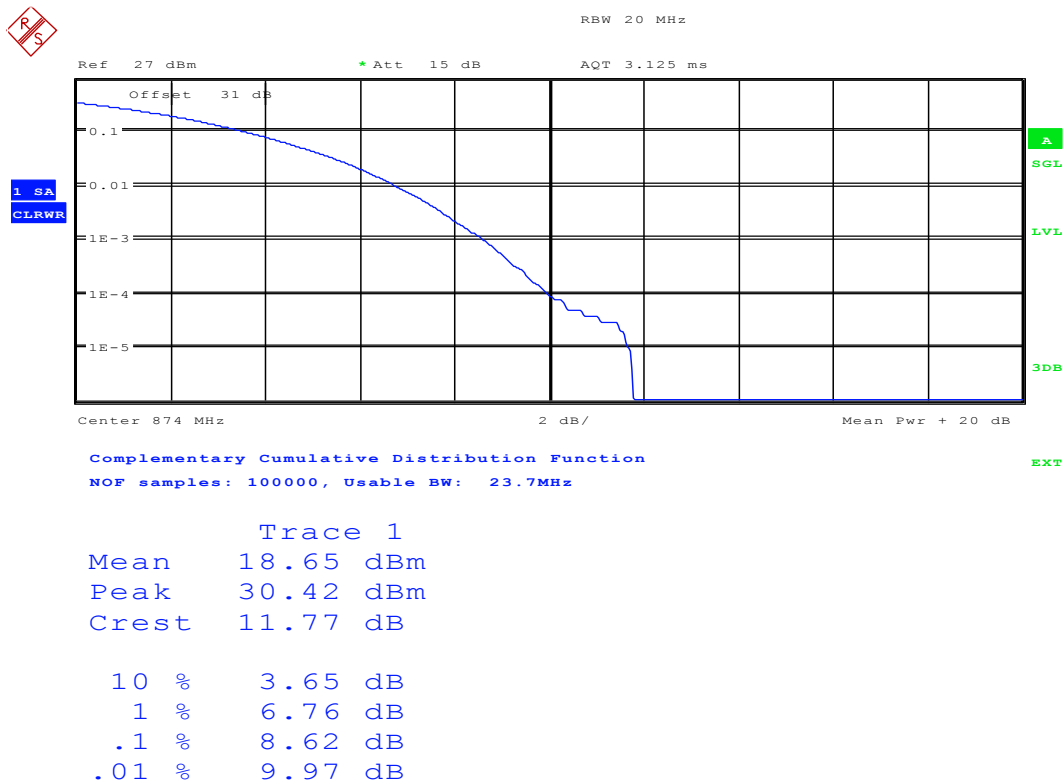
Date: 19.MAY.2016 00:27:11

2.1.3 1L5M_T



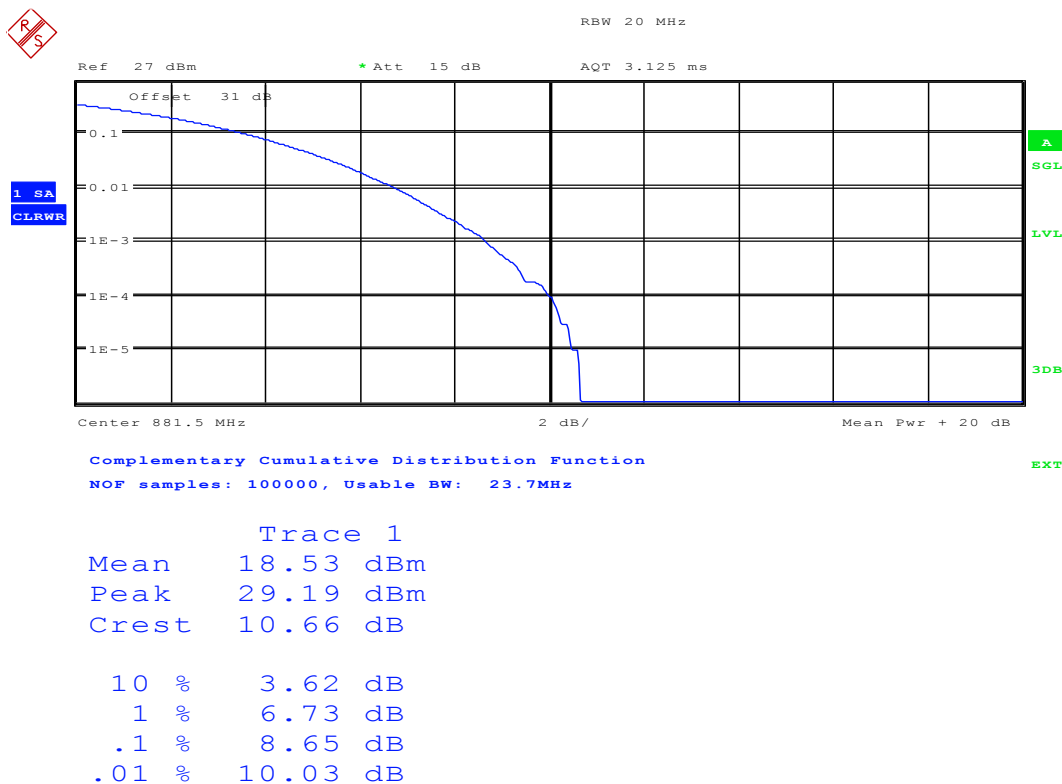
Date: 19.MAY.2016 00:28:07

2.1.4 1L10M_B



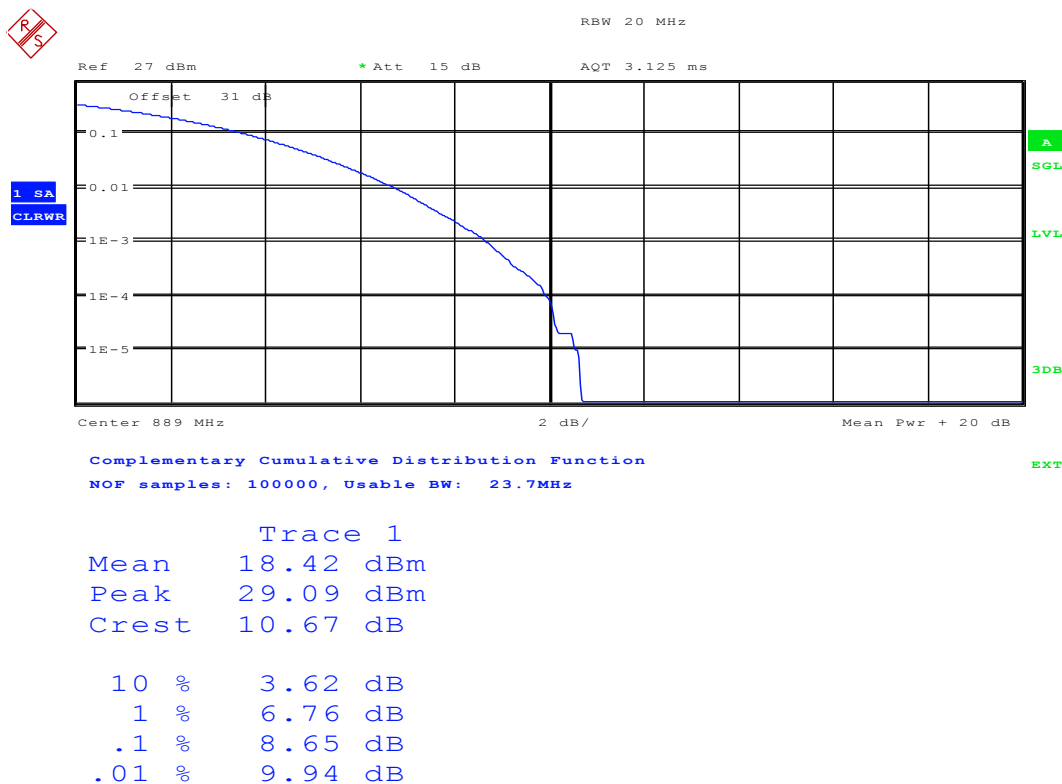
Date: 18.MAY.2016 23:38:36

2.1.5 1L10M_M



Date: 18.MAY.2016 23:41:21

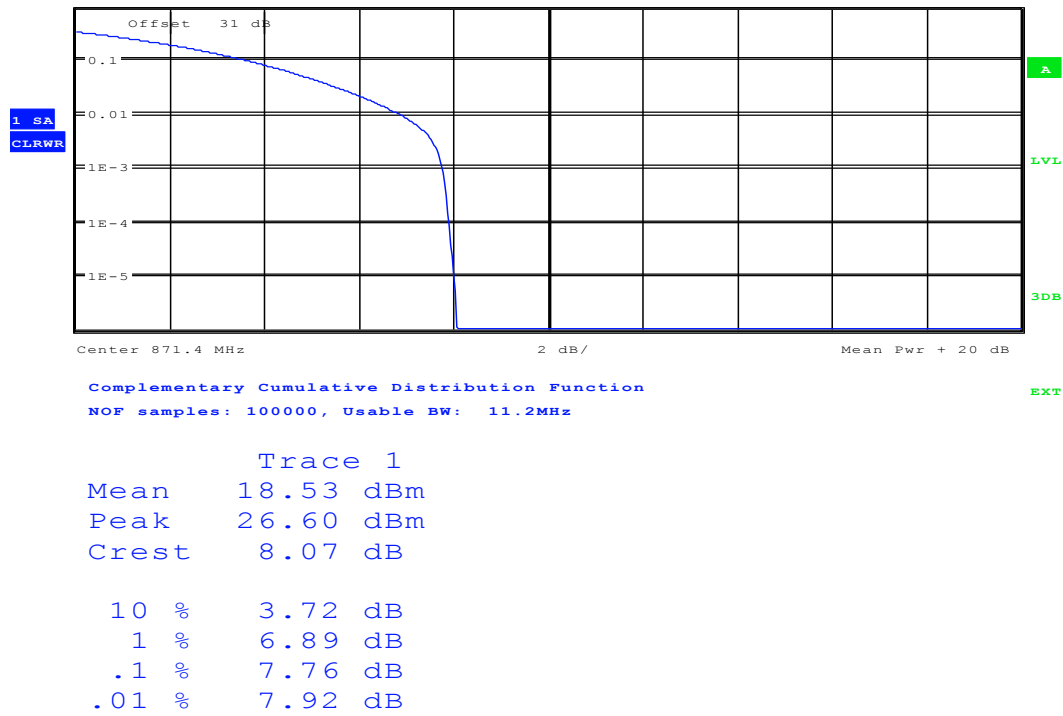
2.1.6 1L10M_T



Date: 18.MAY.2016 23:43:48

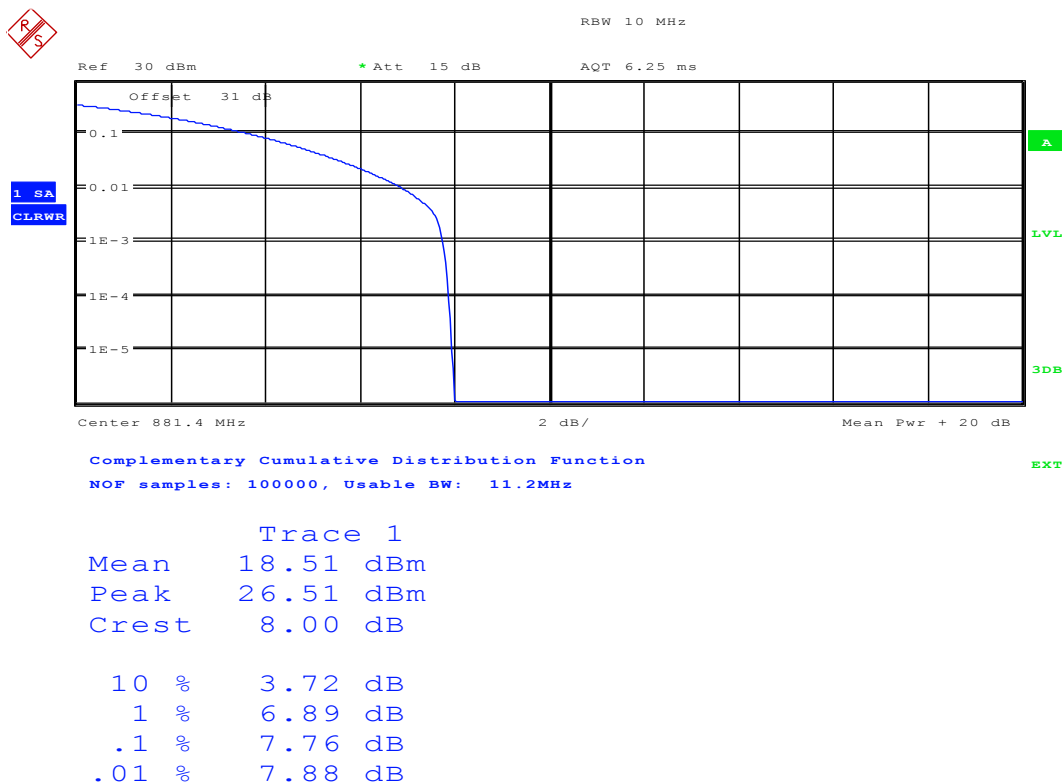


2.1.7 1U_B



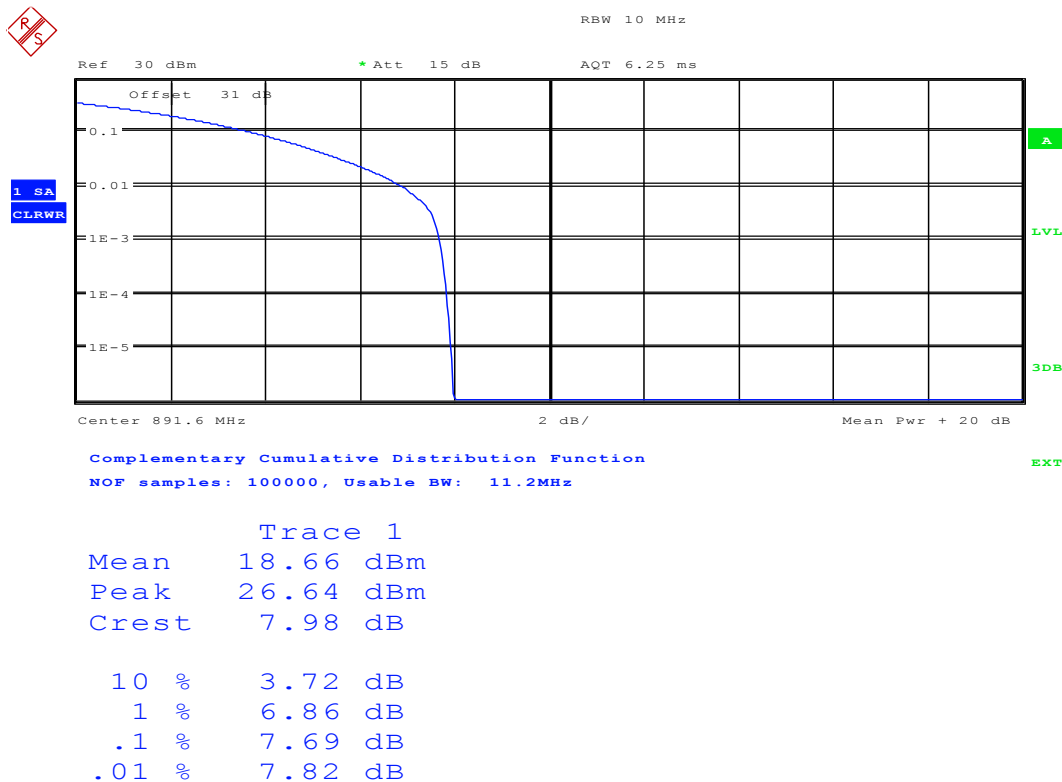
Date: 19.MAY.2016 00:45:59

2.1.8 1U_M



Date: 19.MAY.2016 00:55:25

2.1.9 1U_T



Date: 19.MAY.2016 01:04:46



Appendix B: Bandwidth

1 Result Table

1.1 Occupied Bandwidth

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
1L5M_B	4.50	---
1L5M_M	4.50	---
1L5M_T	4.50	---
1L10M_B	8.94	---
1L10M_M	8.94	---
1L10M_T	8.94	---
1U_B	4.26	---
1U_M	4.17	---
1U_T	4.17	---

1.2 Emission Bandwidth

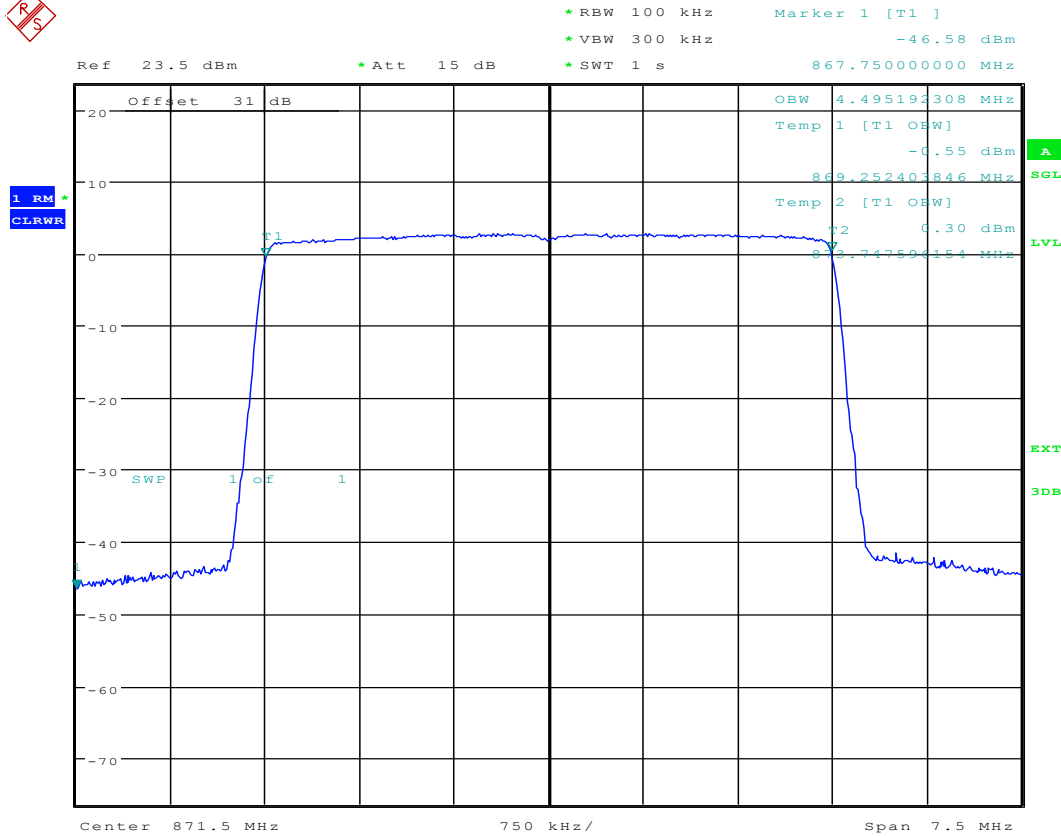
EUT Conf.	Emission Bandwidth, -20 dBc [MHz]	Emission Bandwidth, -26 dBc [MHz]	Verdict
1L5M_B	----	4.75	---
1L5M_M	----	4.72	---
1L5M_T	----	4.72	---
1L10M_B	----	9.33	---
1L10M_M	----	9.35	---
1L10M_T	----	9.35	---
1U_B	----	4.68	---
1U_M	----	4.68	---
1U_T	----	4.68	---



2 Test Plot

2.1 Occupied Bandwidth

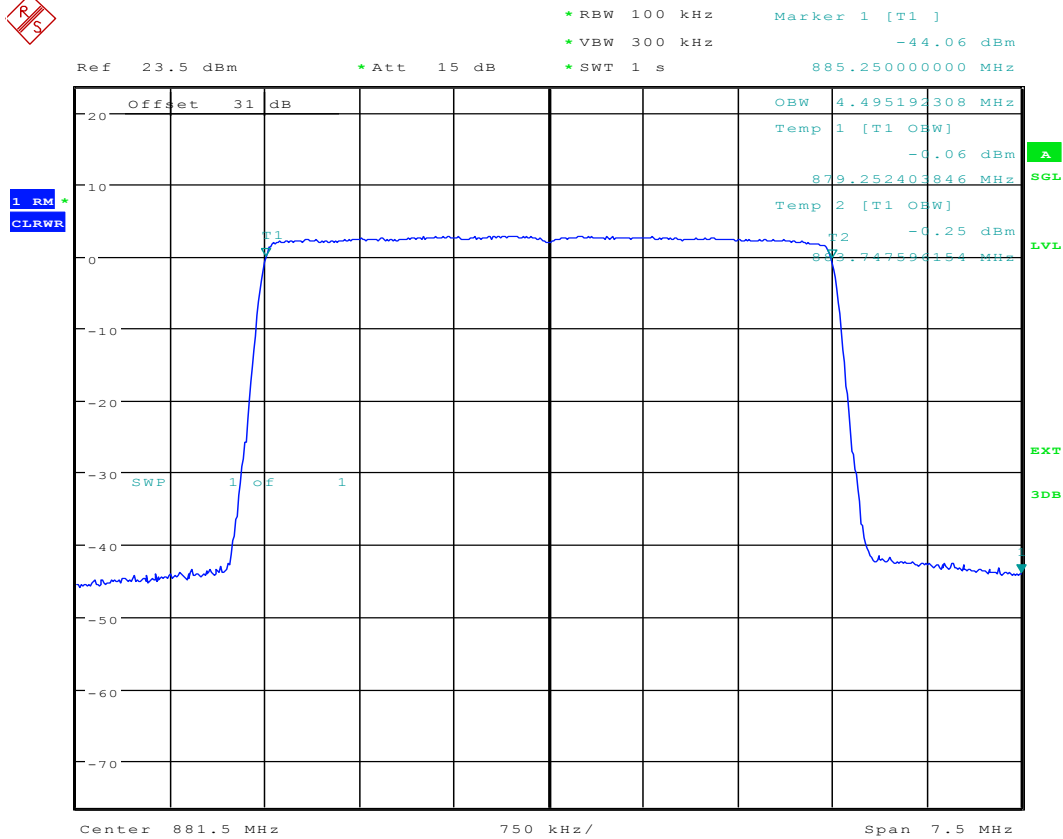
2.1.1 1L5M_B



Date: 18.MAY.2016 23:31:05

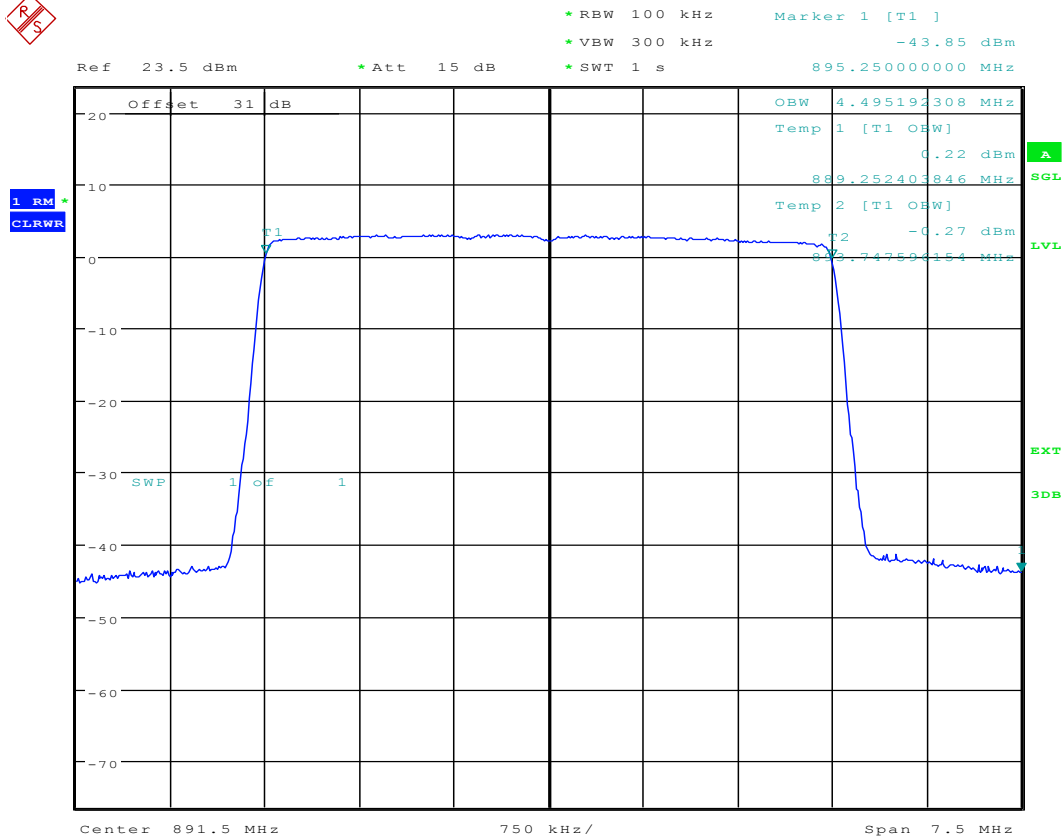


2.1.2 1L5M_M



Date: 18.MAY.2016 23:33:50

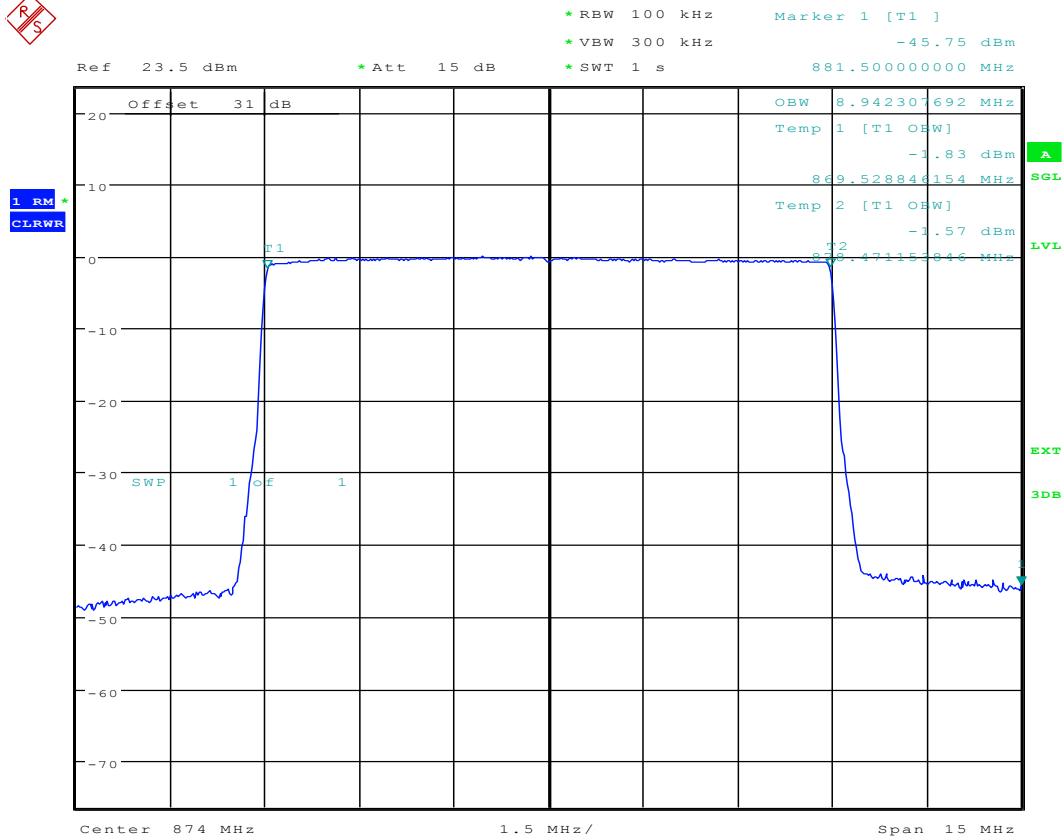
2.1.3 1L5M_T



Date: 18.MAY.2016 22:37:46



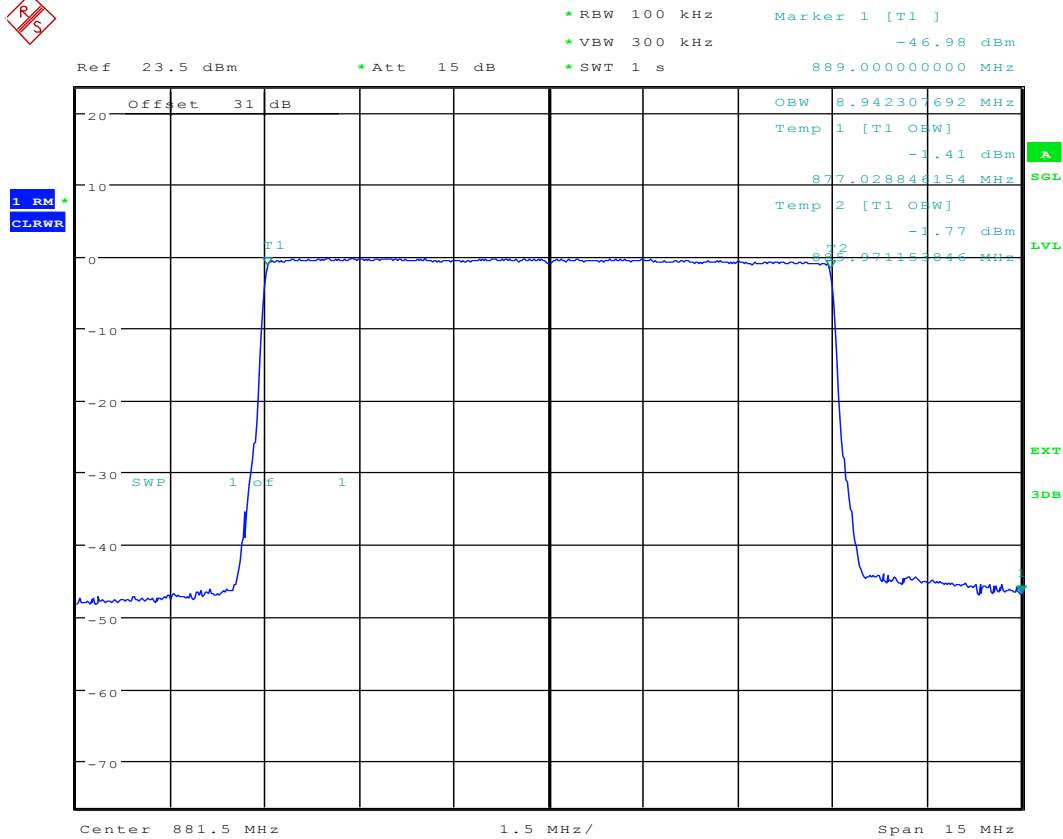
2.1.4 1L10M_B



Date: 18.MAY.2016 23:38:53



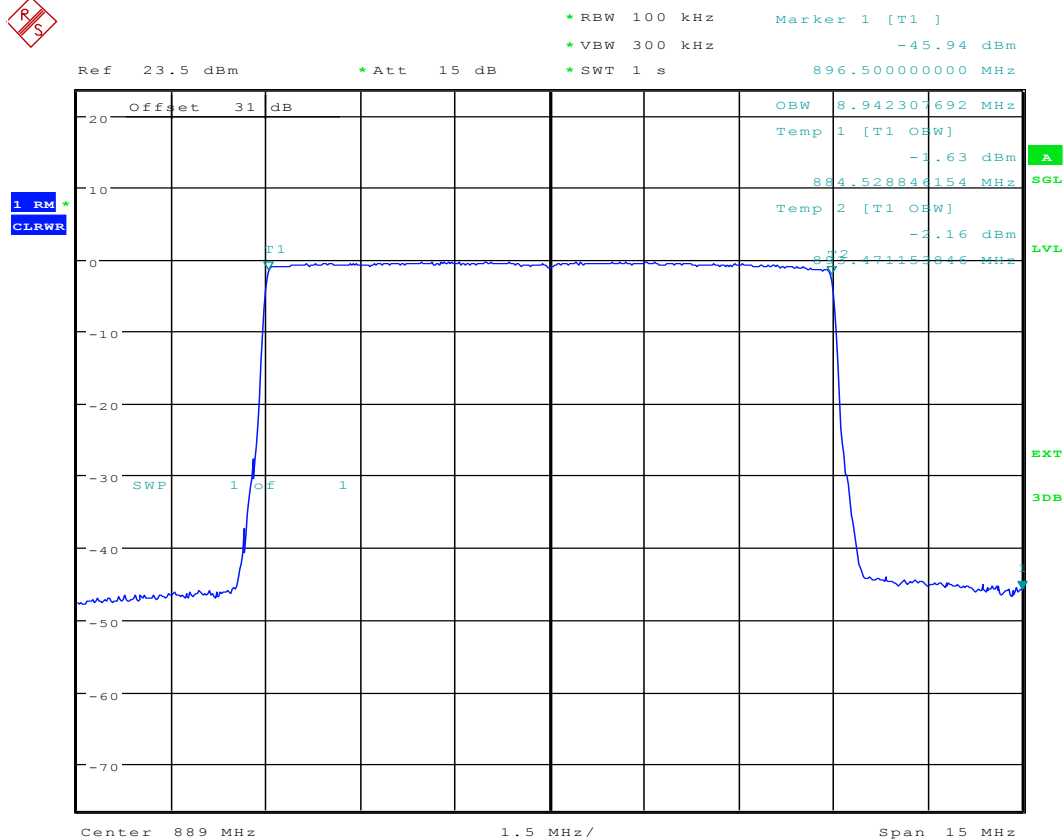
2.1.5 1L10M_M



Date: 18.MAY.2016 23:41:37



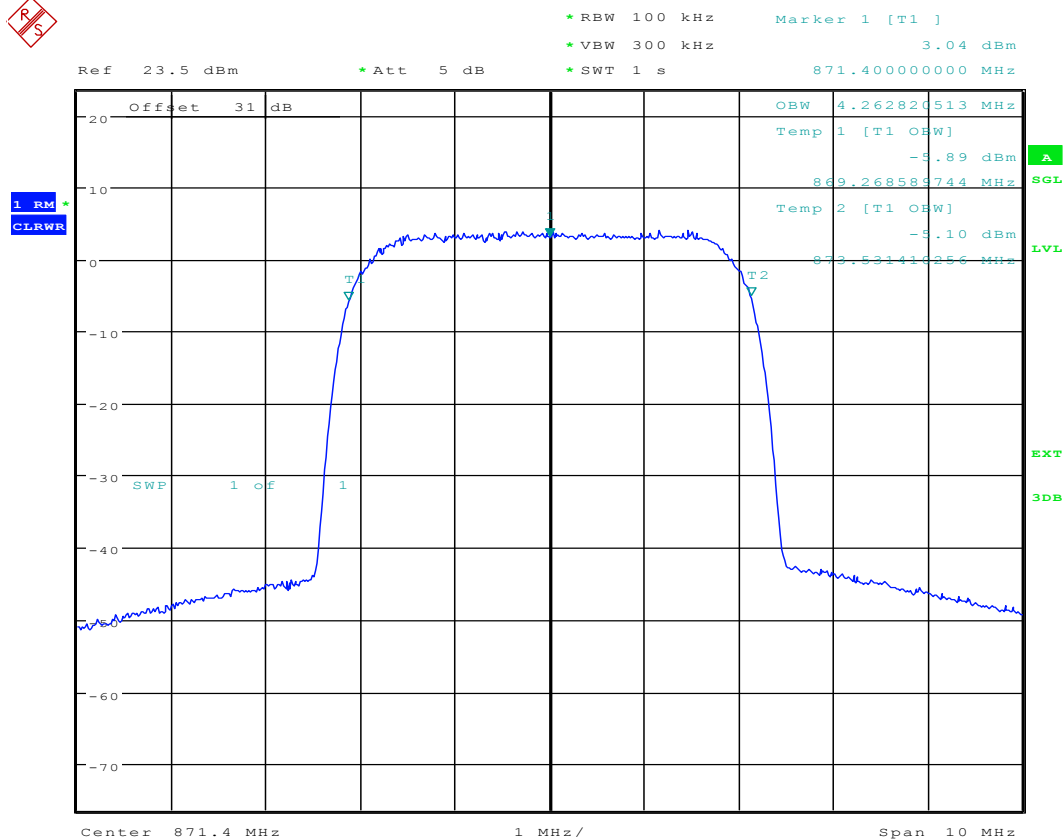
2.1.6 1L10M_T



Date: 18.MAY.2016 23:44:05



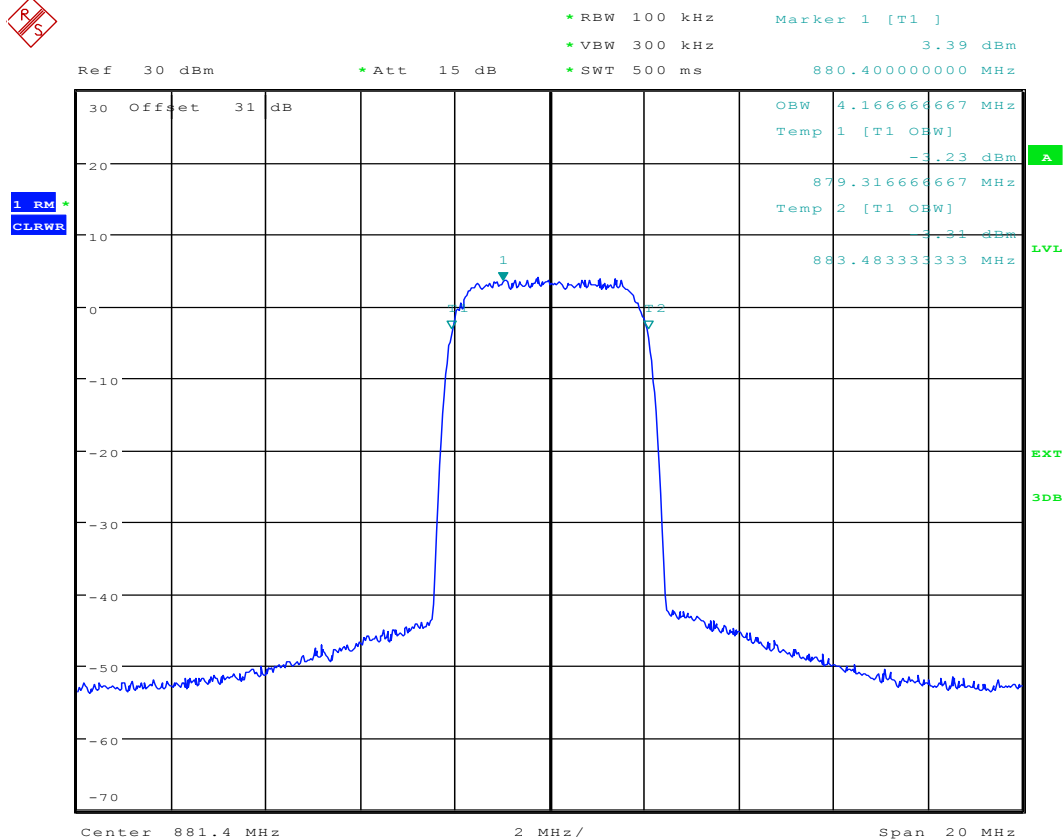
2.1.7 1U_B



Date: 18.MAY.2016 23:25:29



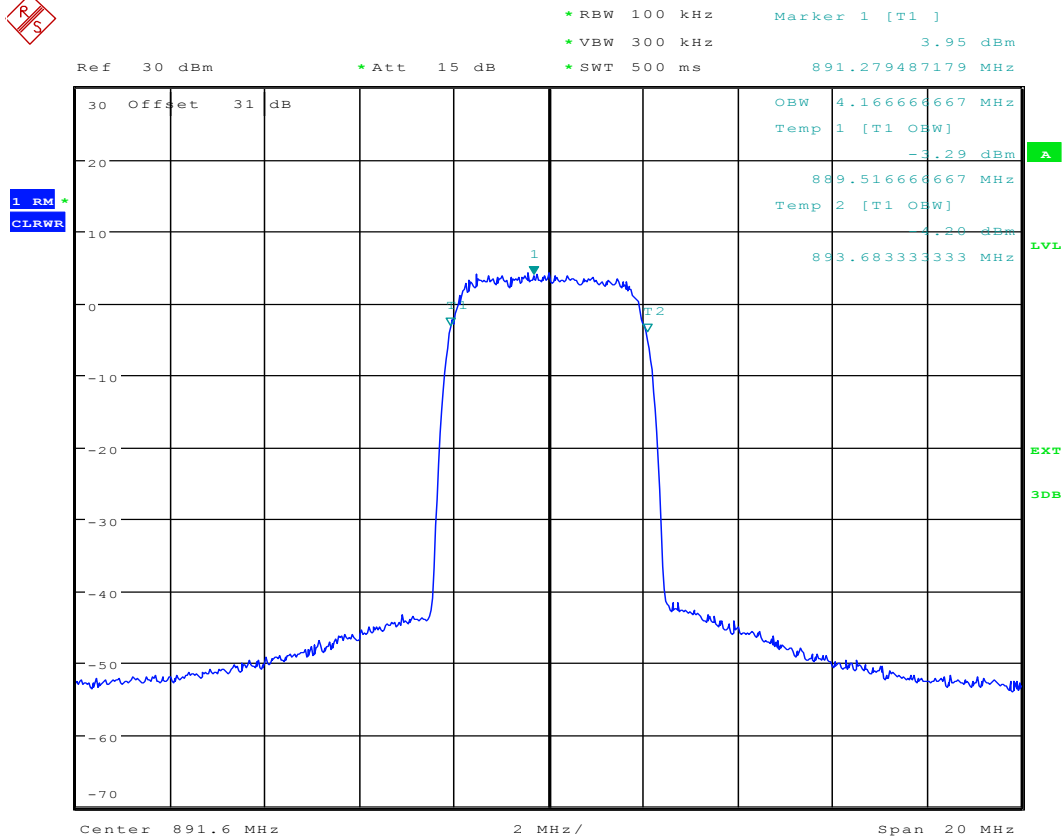
2.1.8 1U_M



Date: 19.MAY.2016 00:52:50



2.1.9 1U_T

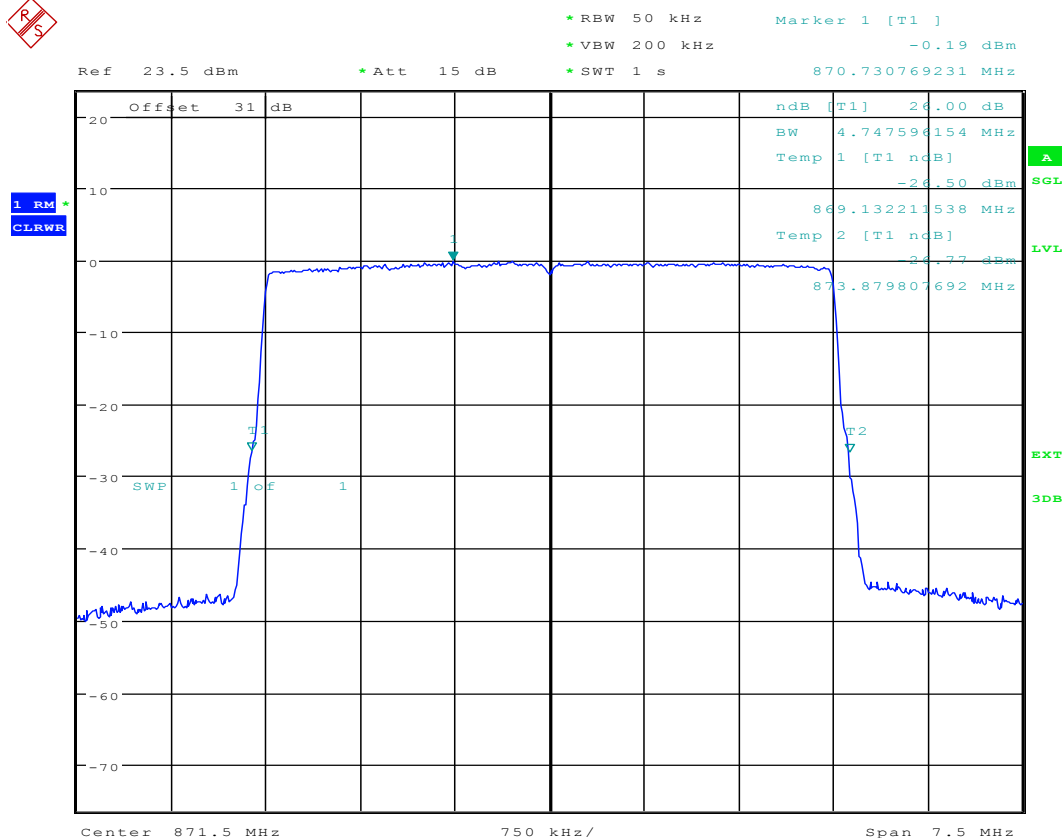


Date: 19.MAY.2016 01:05:32



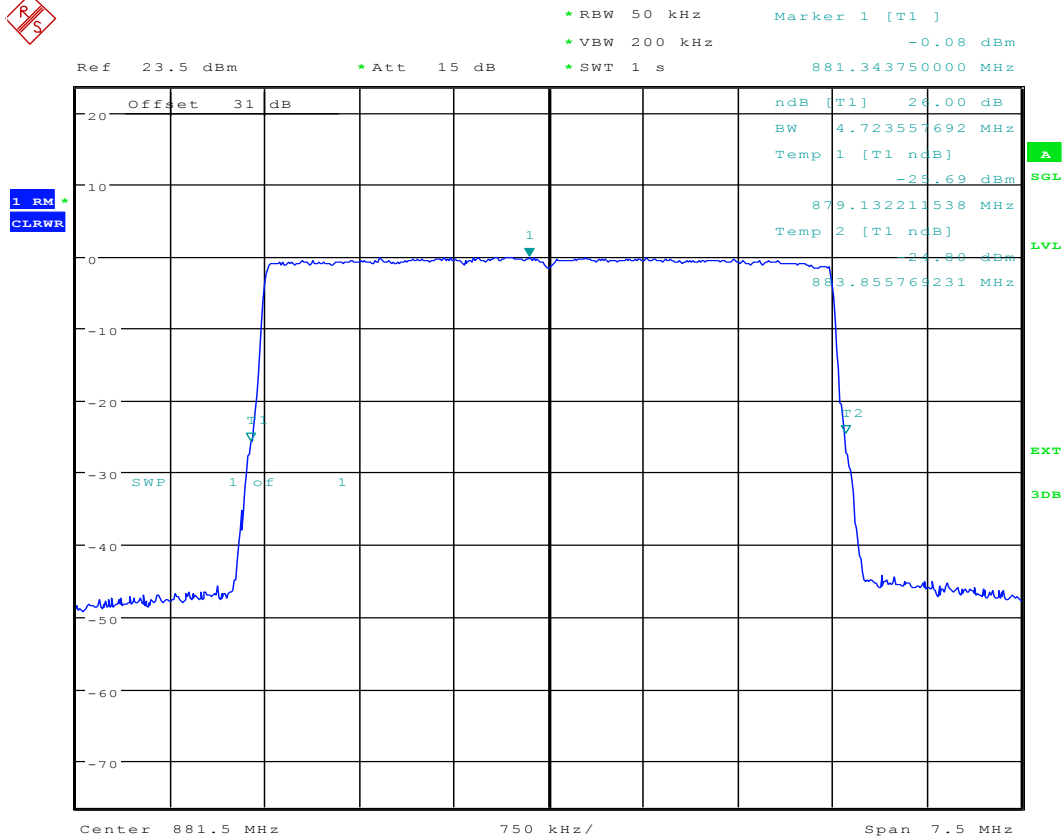
2.2 Emission Bandwidth(-26 dBc)

2.2.1 1L5M_B



Date: 18.MAY.2016 23:31:58

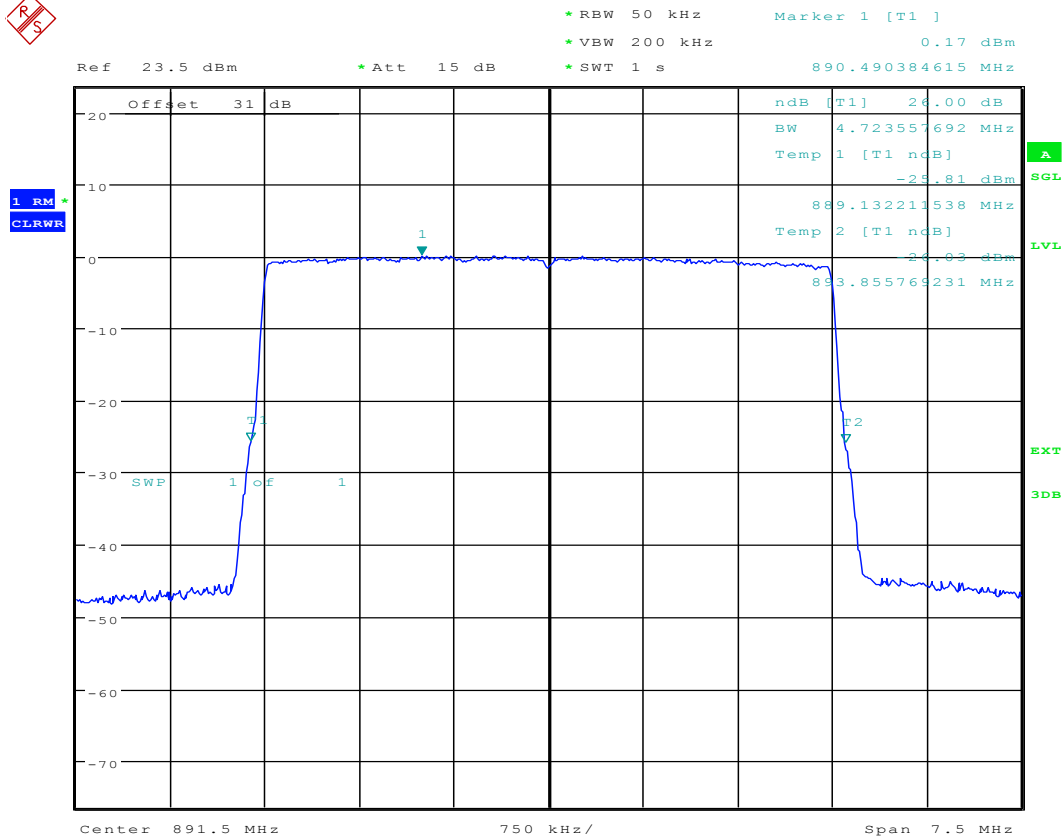
2.2.2 1L5M_M



Date: 18.MAY.2016 23:34:12

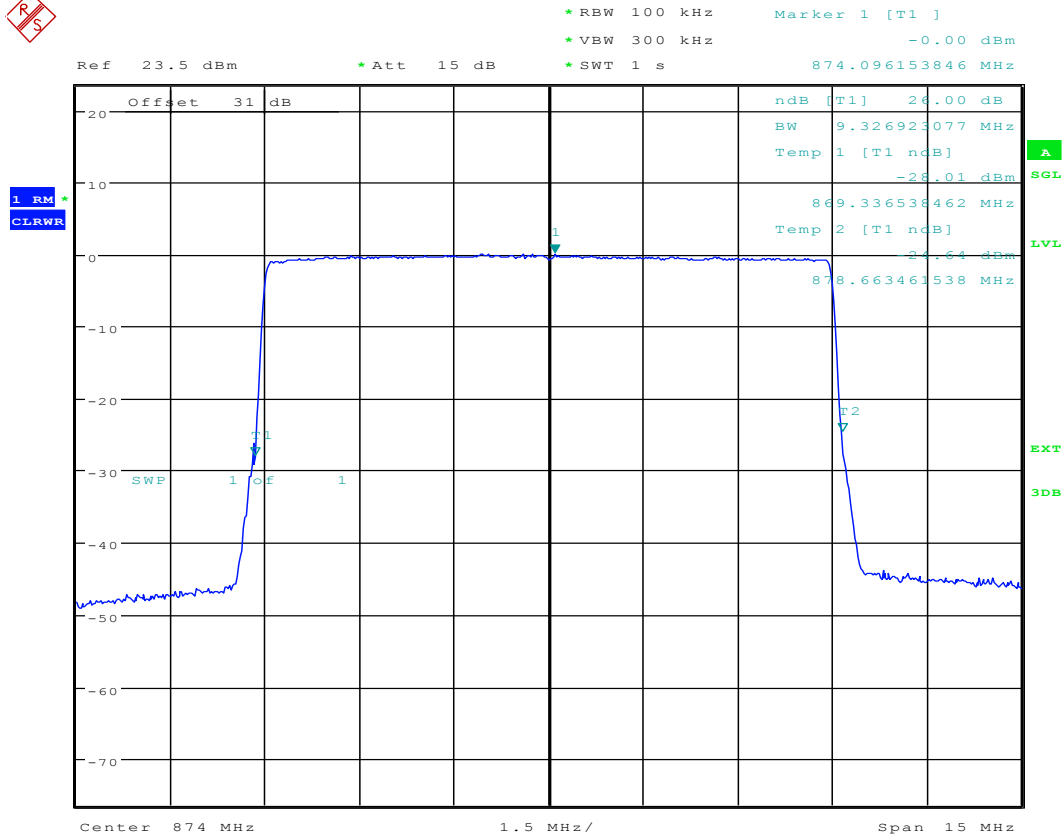


2.2.3 1L5M_T



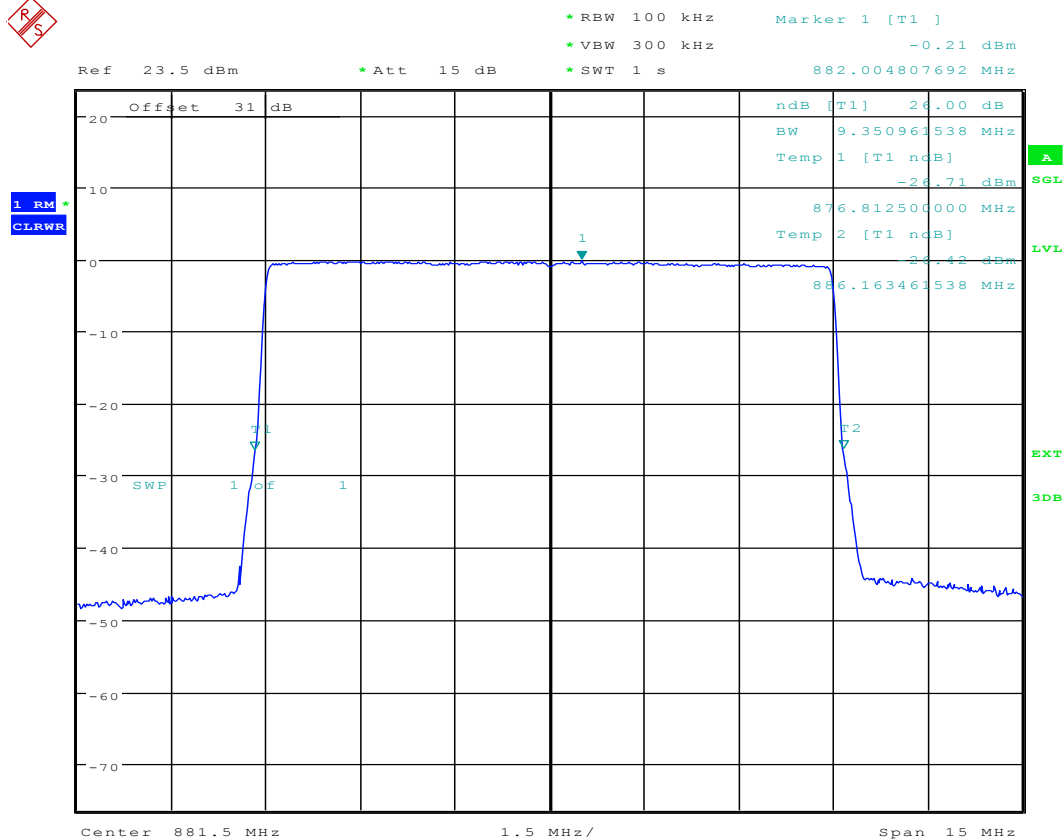
Date: 18.MAY.2016 22:38:08

2.2.4 1L10M_B



Date: 18.MAY.2016 23:39:46

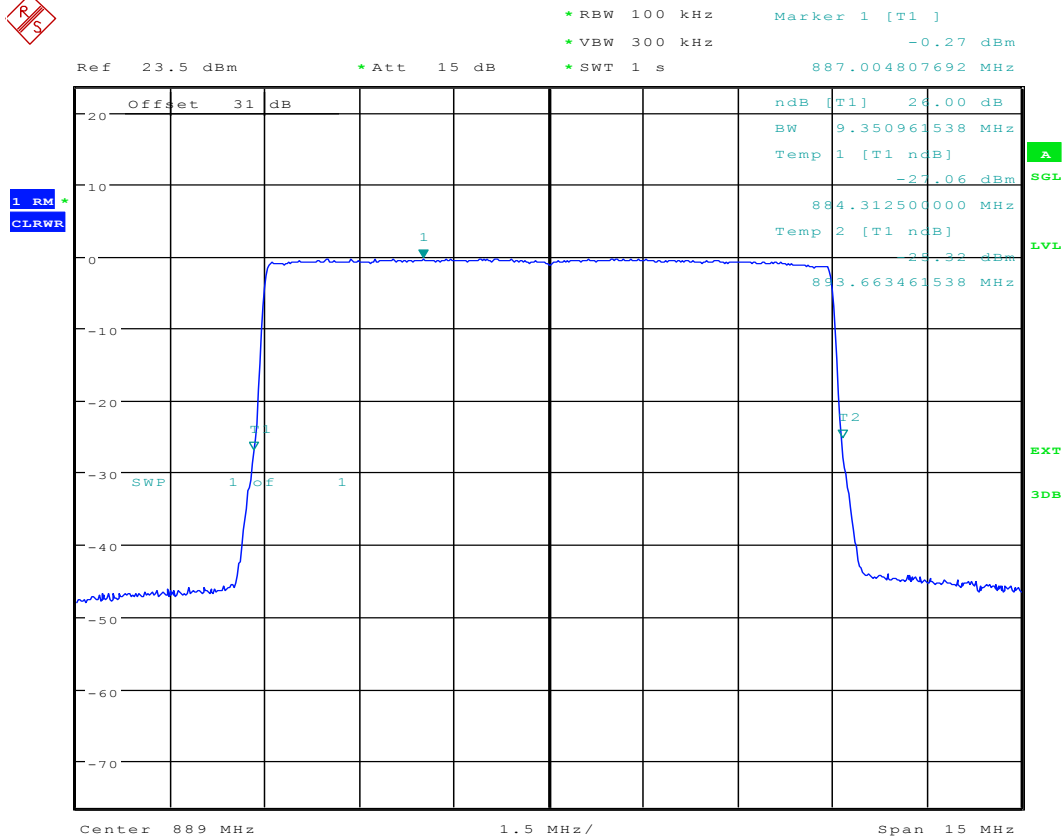
2.2.5 1L10M_M



Date: 18.MAY.2016 23:41:59



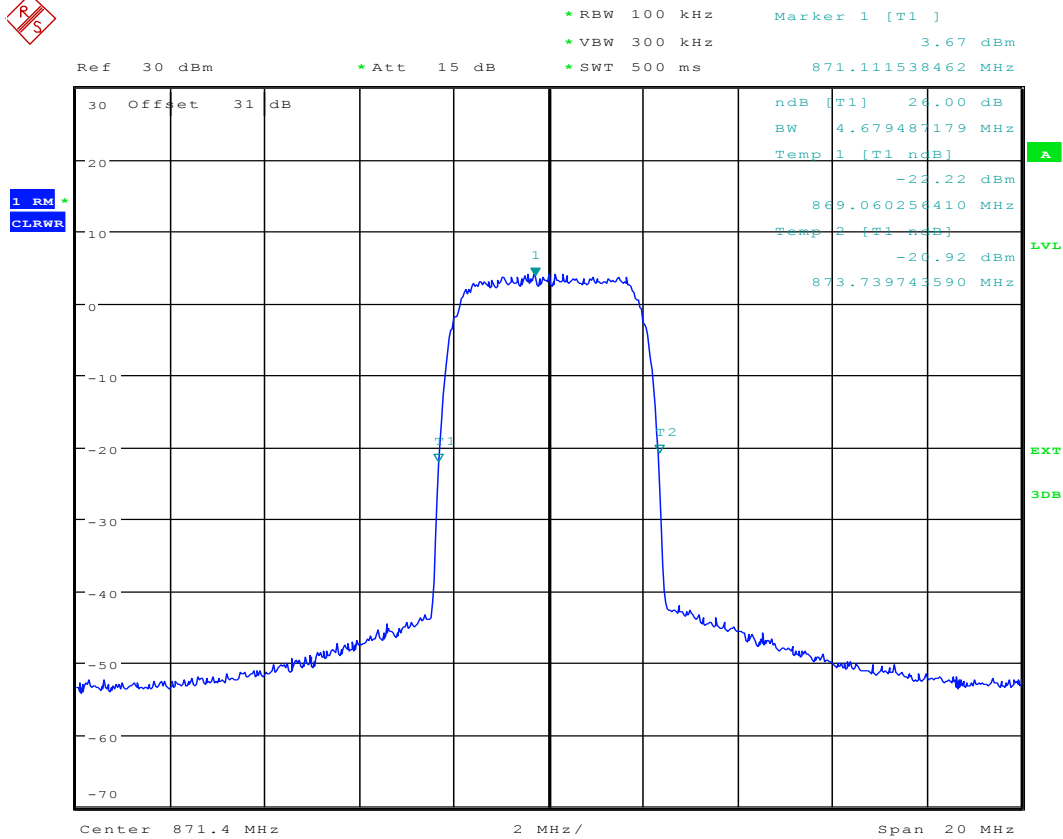
2.2.6 1L10M_T



Date: 18.MAY.2016 23:44:27

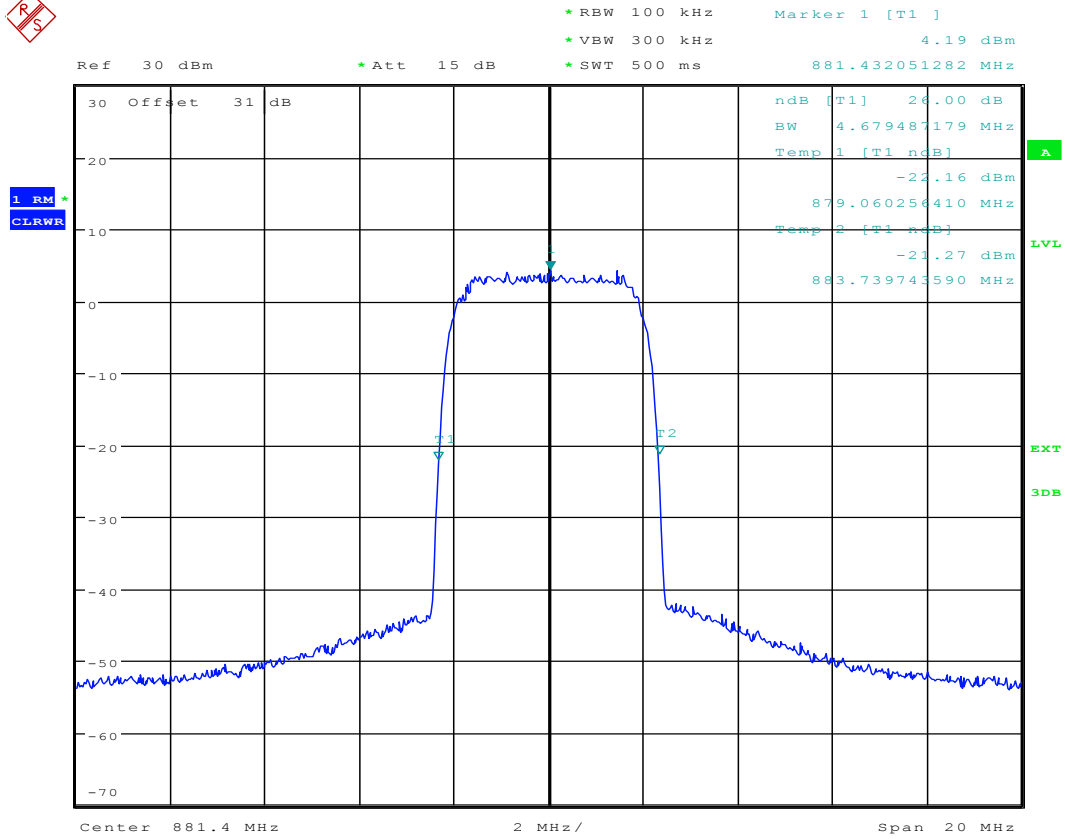


2.2.7 1U_B



Date: 19.MAY.2016 00:45:27

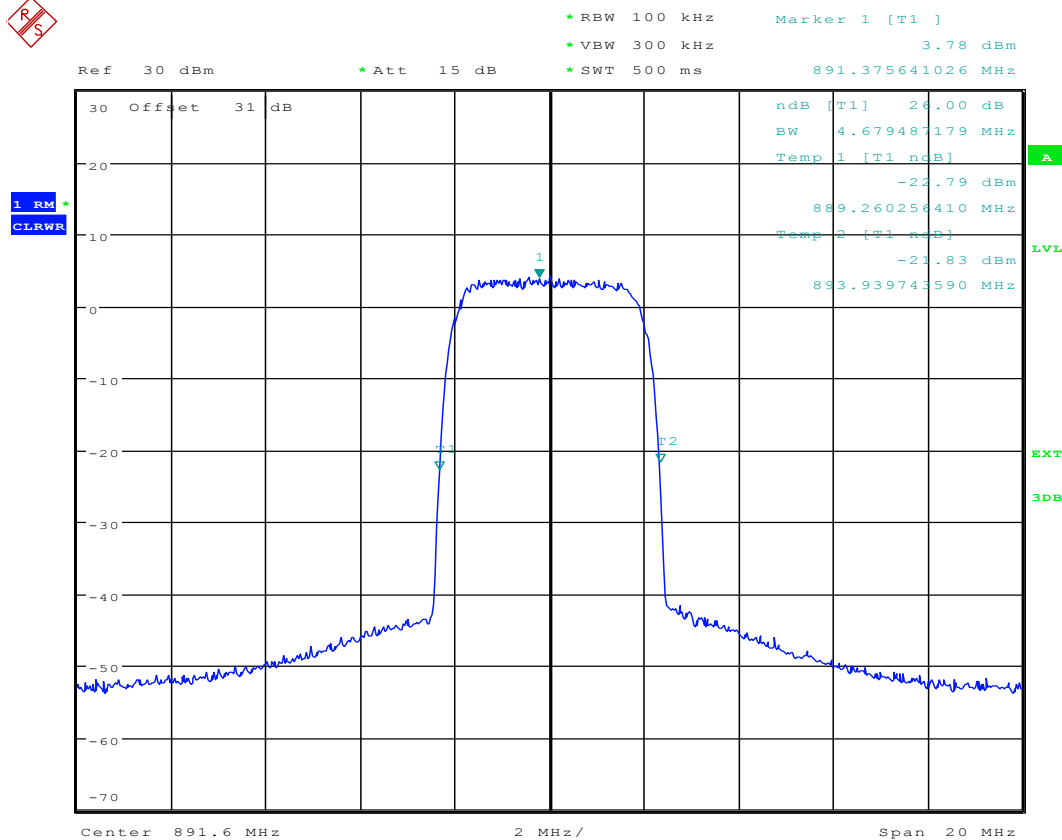
2.2.8 1U_M



Date: 19.MAY.2016 00:53:34



2.2.9 1U_T



Date: 19.MAY.2016 01:06:24



Appendix C: Band Edges Compliance



1 Result Table

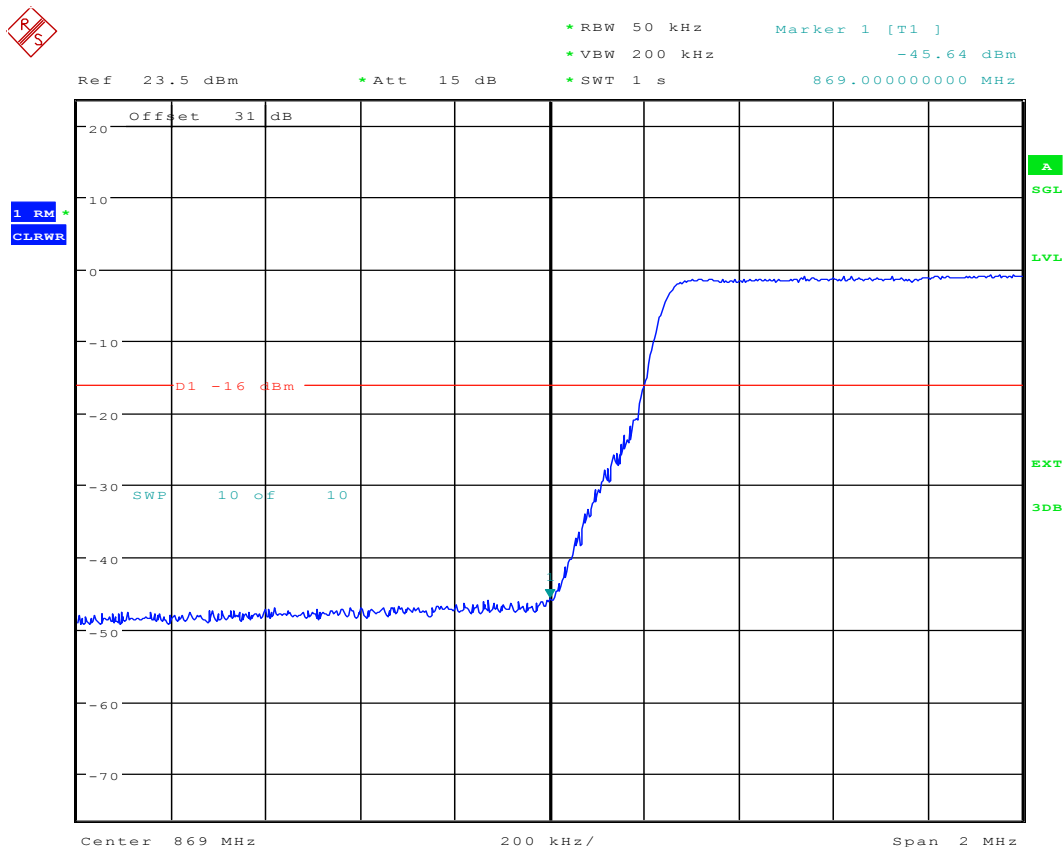
NOTE: The offset of measurement filter -3dB point may be considered when identifying the maximum emission for e.g. the CDMA, WCDMA, WiMAX, LTE systems.

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



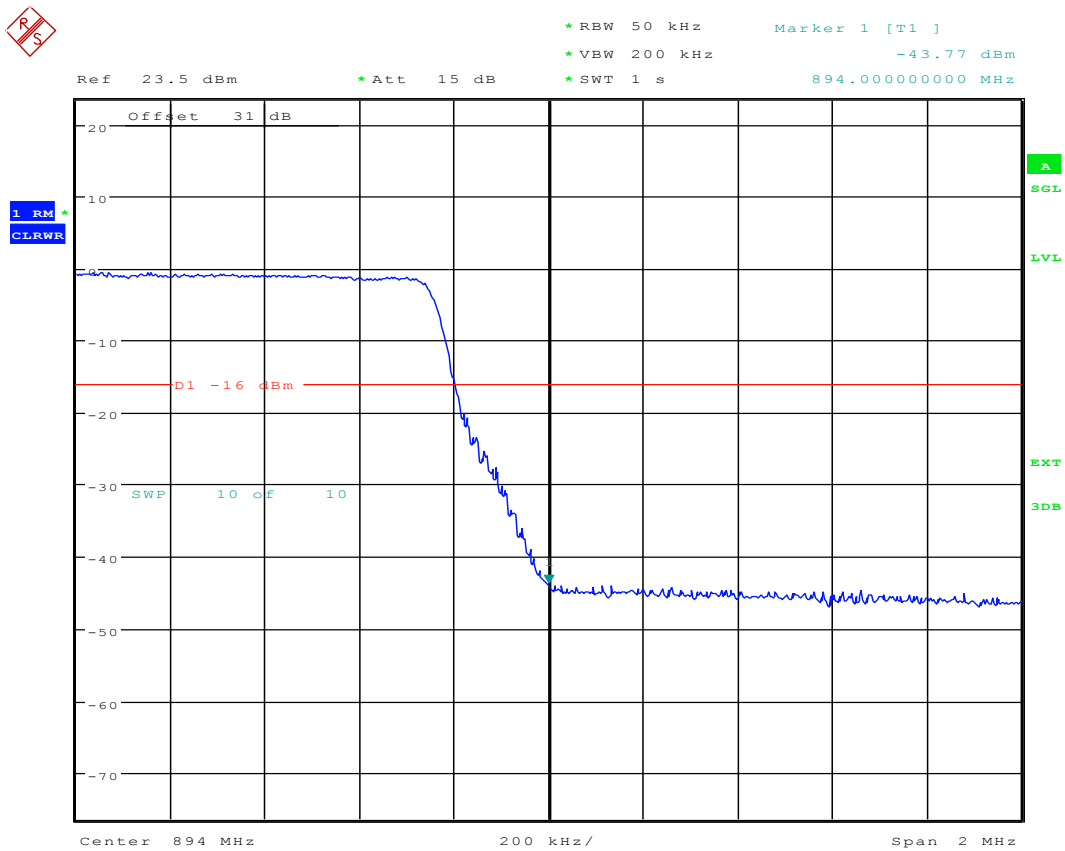
2 Test Plot

2.1 1L5M_B



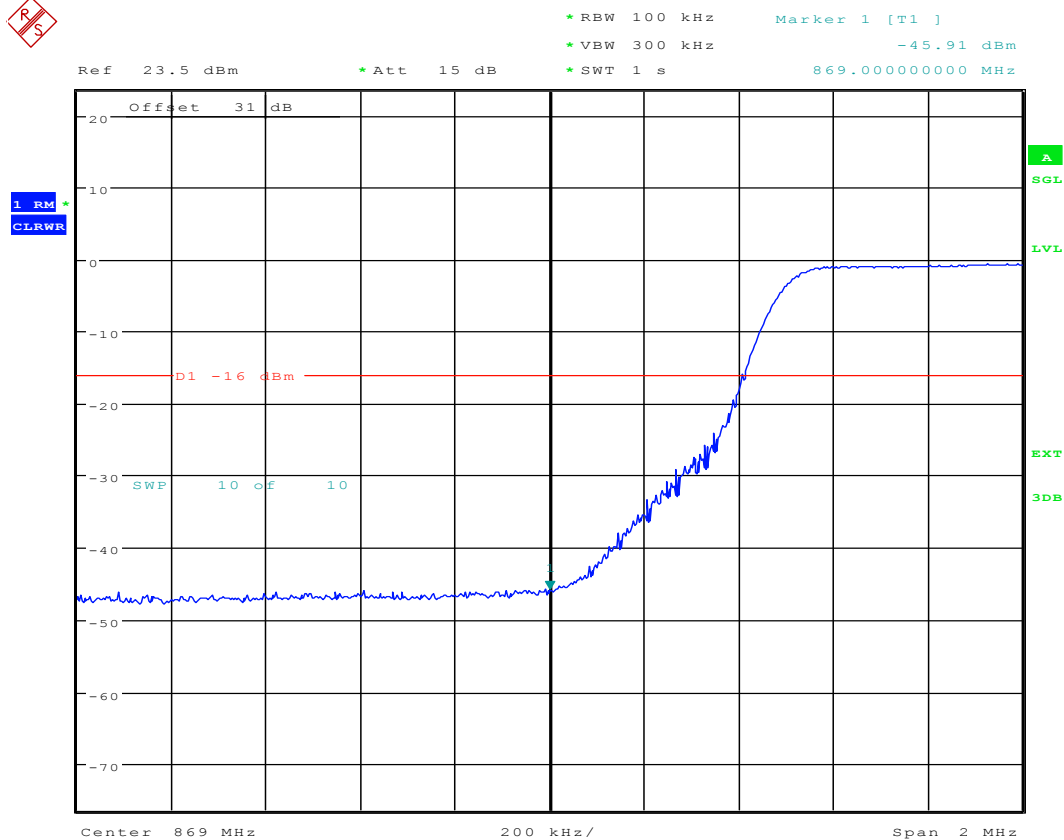
Date: 18.MAY.2016 23:31:41

2.2 1L5M_T



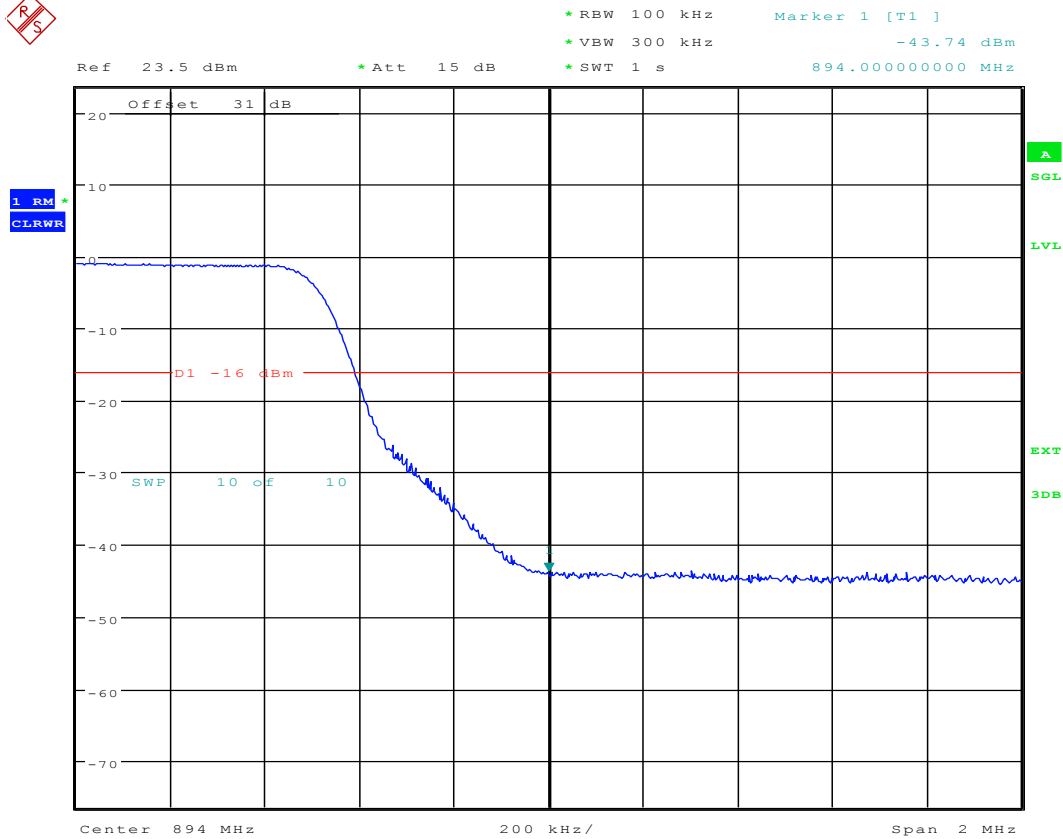
Date: 19.MAY.2016 00:00:30

2.3 1L10M_B



Date: 18.MAY.2016 23:39:29

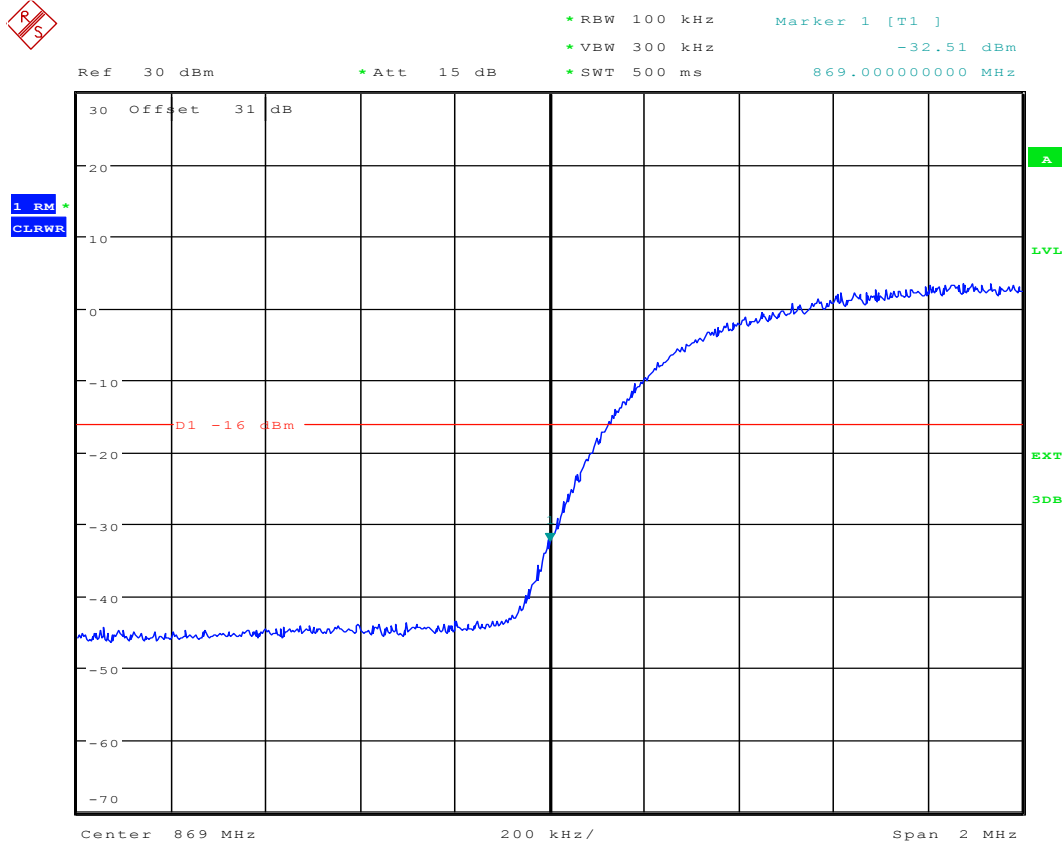
2.4 1L10M_T



Date: 19.MAY.2016 00:05:16



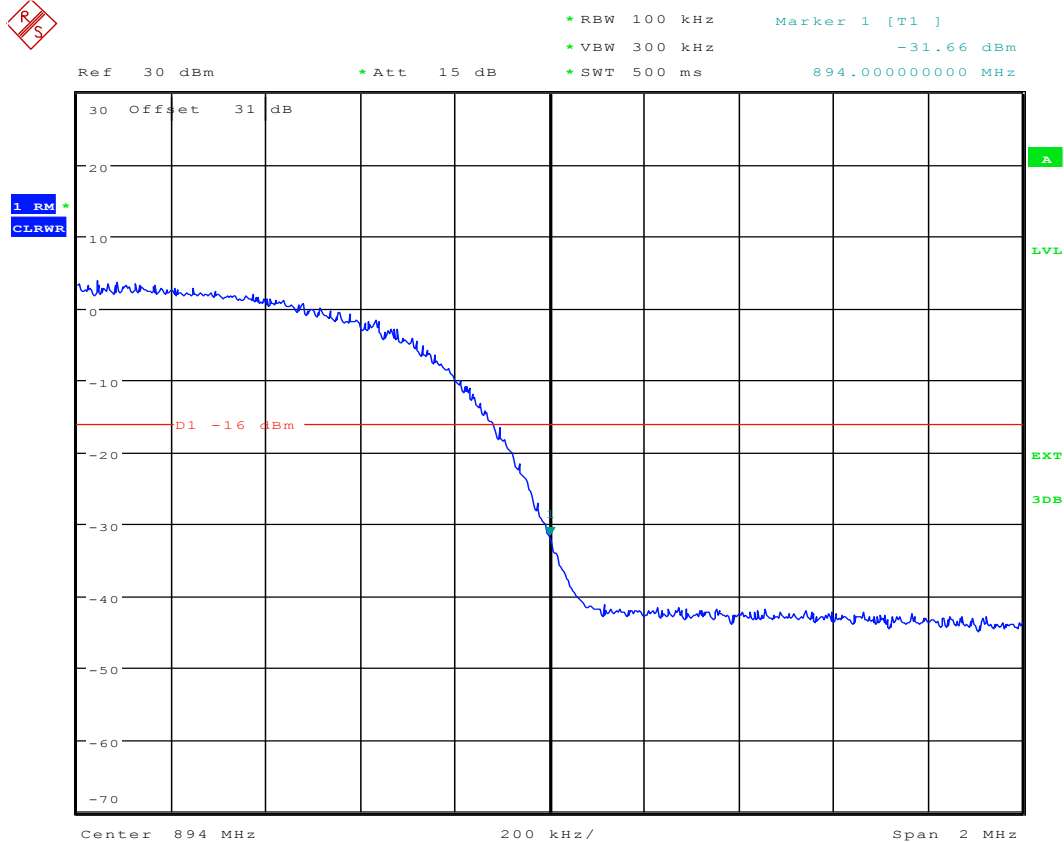
2.5 1U_B



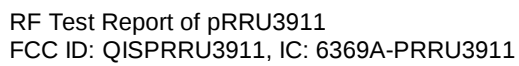
Date: 19.MAY.2016 00:49:03



2.6 1U_T

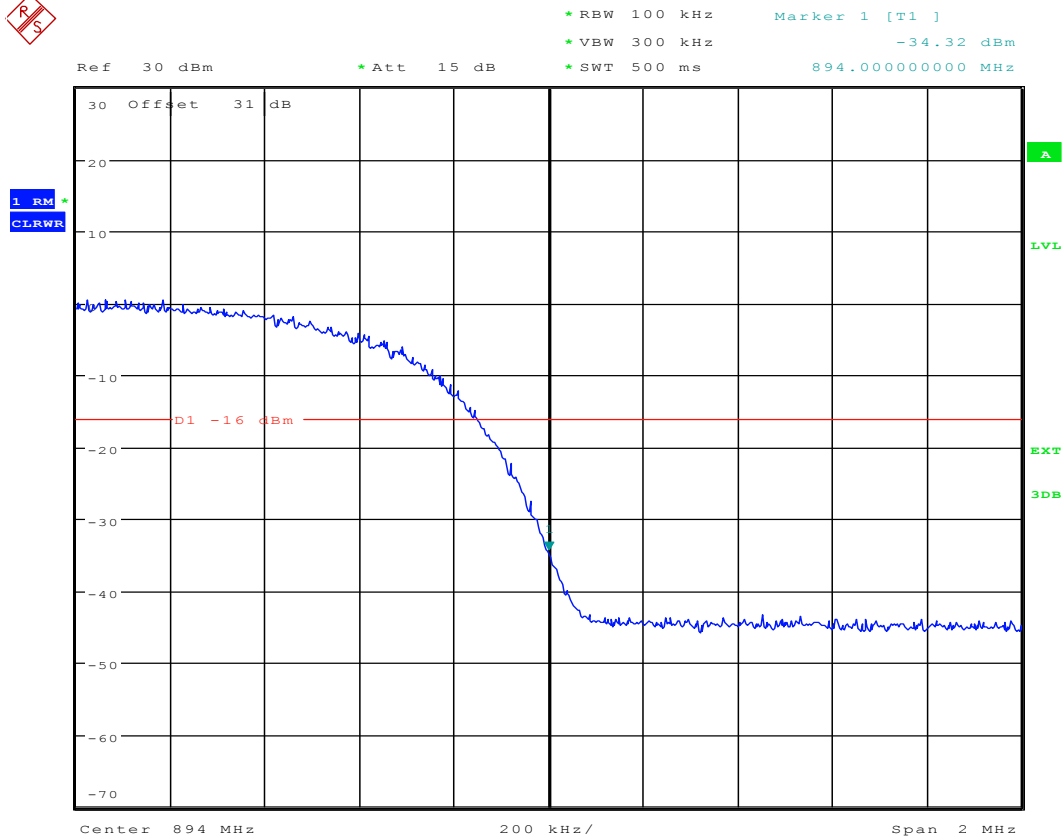


Date: 19.MAY.2016 01:07:16



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2.8 1U1L5M_T



Date: 19.MAY.2016 02:29:56



Appendix D: Spurious Emission at Antenna Terminals

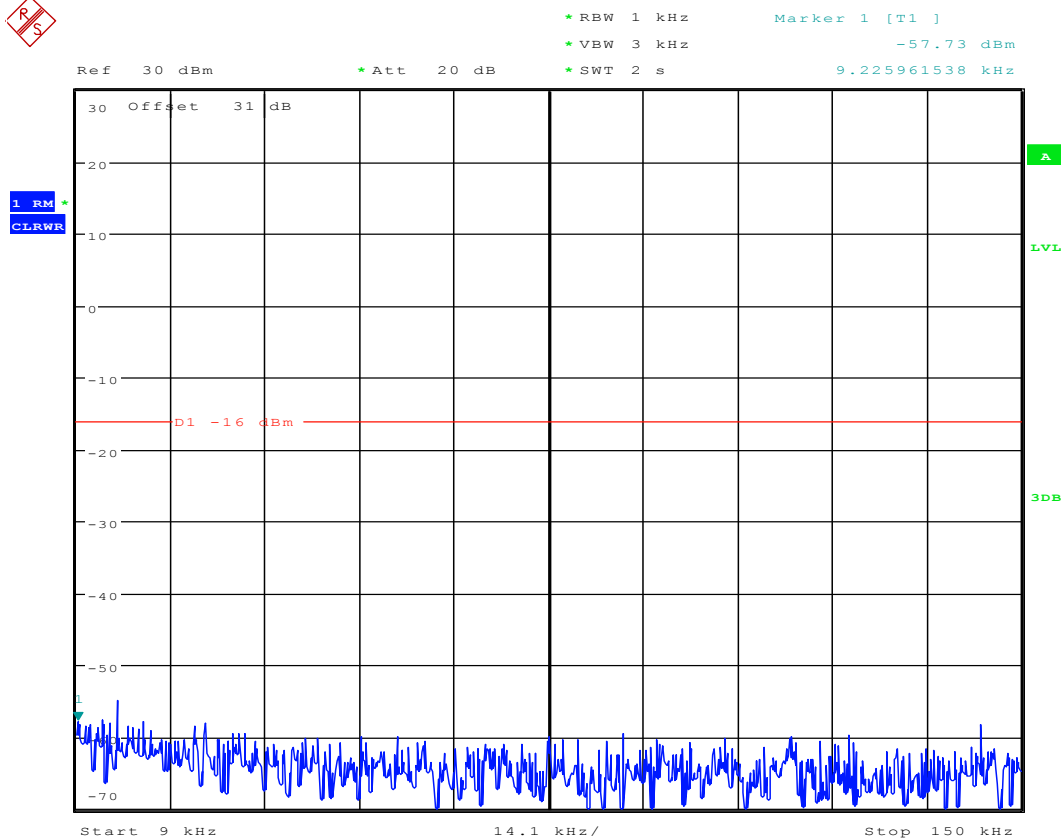


1 Result Table

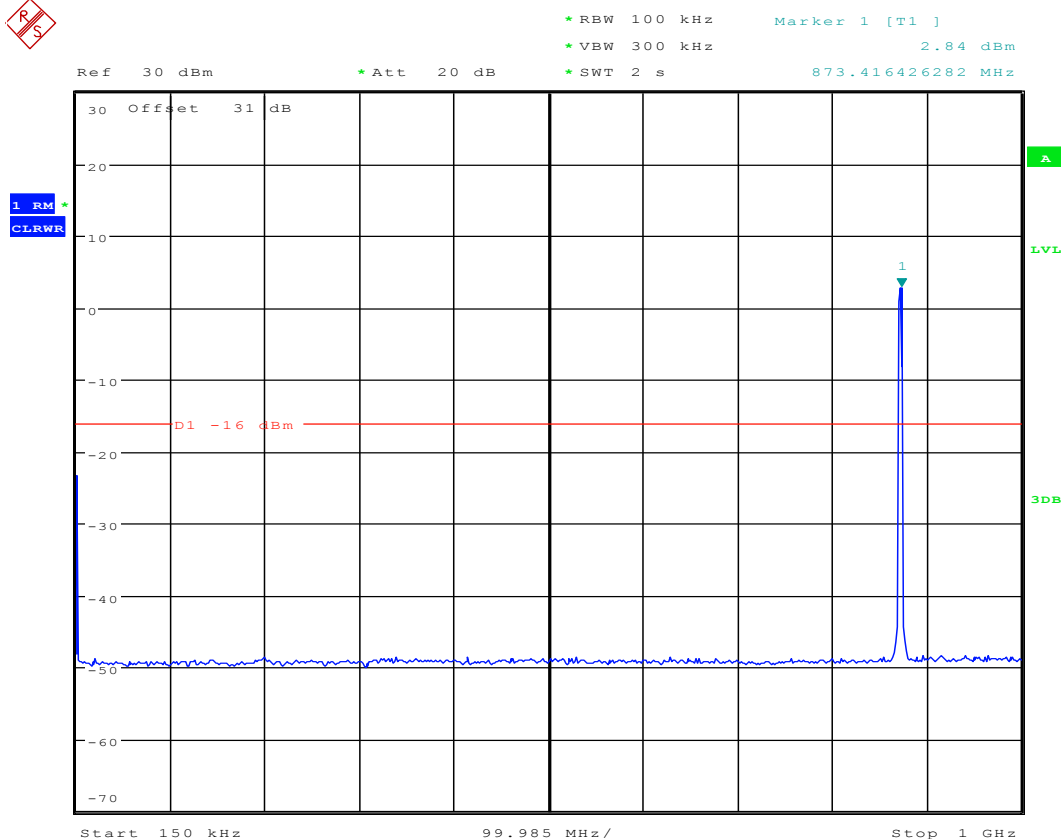
EUT Conf.	Maximum Emission [dBm]	Verdict
1L5M_B	<-13	Pass
1L5M_M	<-13	Pass
1L5M_T	<-13	Pass
1L10M_B	<-13	Pass
1L10M_M	<-13	Pass
1L10M_T	<-13	Pass
1U_B	<-13	Pass
1U_M	<-13	Pass
1U_T	<-13	Pass
1U1L5M_B	<-13	Pass
1U1L5M_M	<-13	Pass
1U1L5M_T	<-13	Pass

2 Test Plot

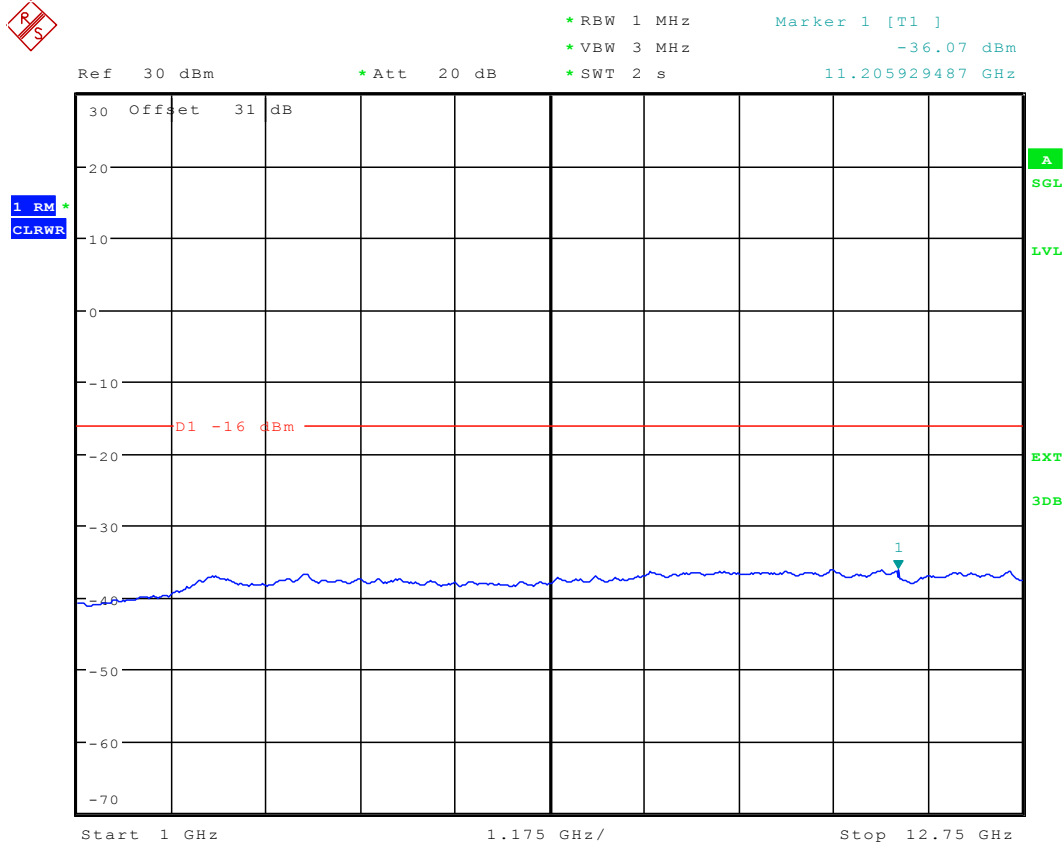
2.1 1L5M_B



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



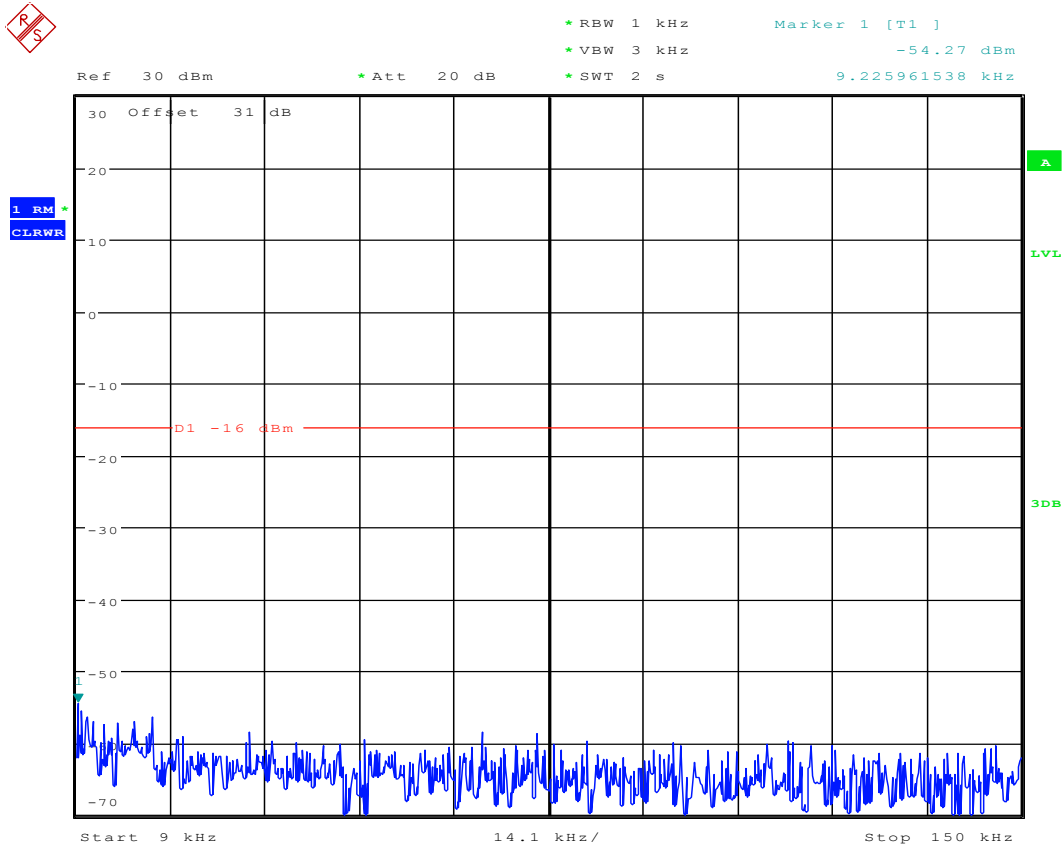
Date: 21.APR.2016 17:59:13



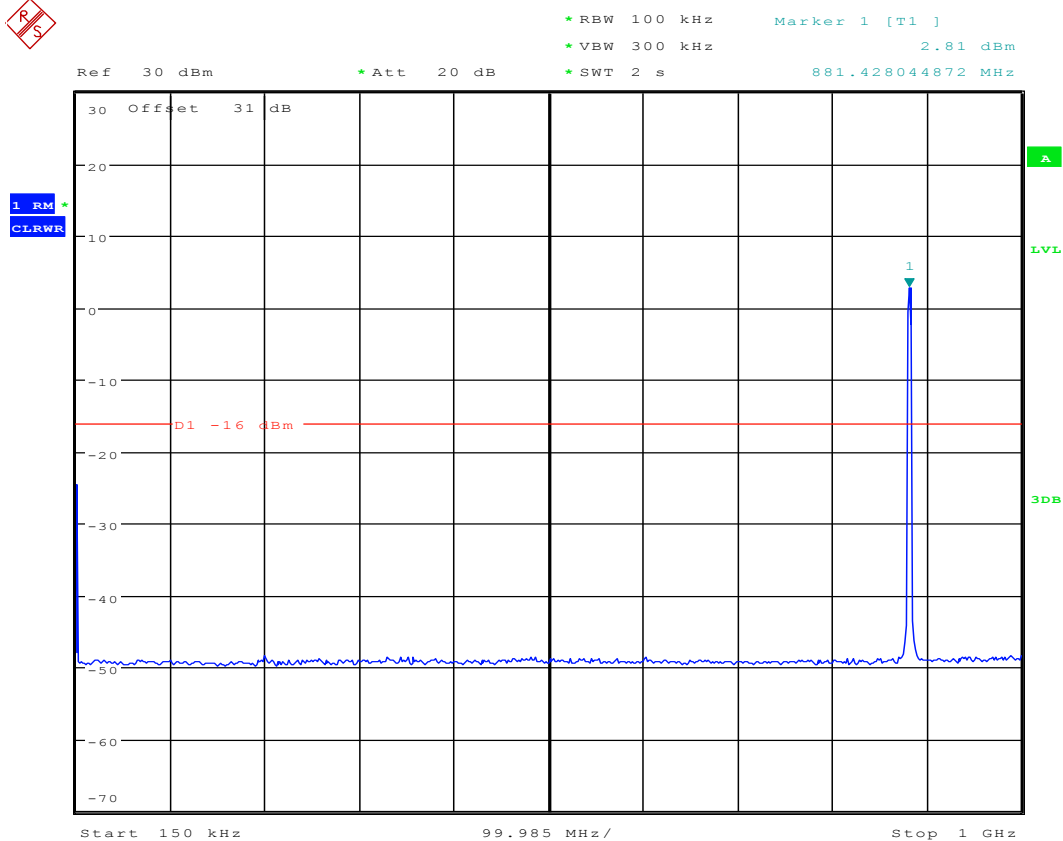
Date: 12.MAY.2016 17:15:44



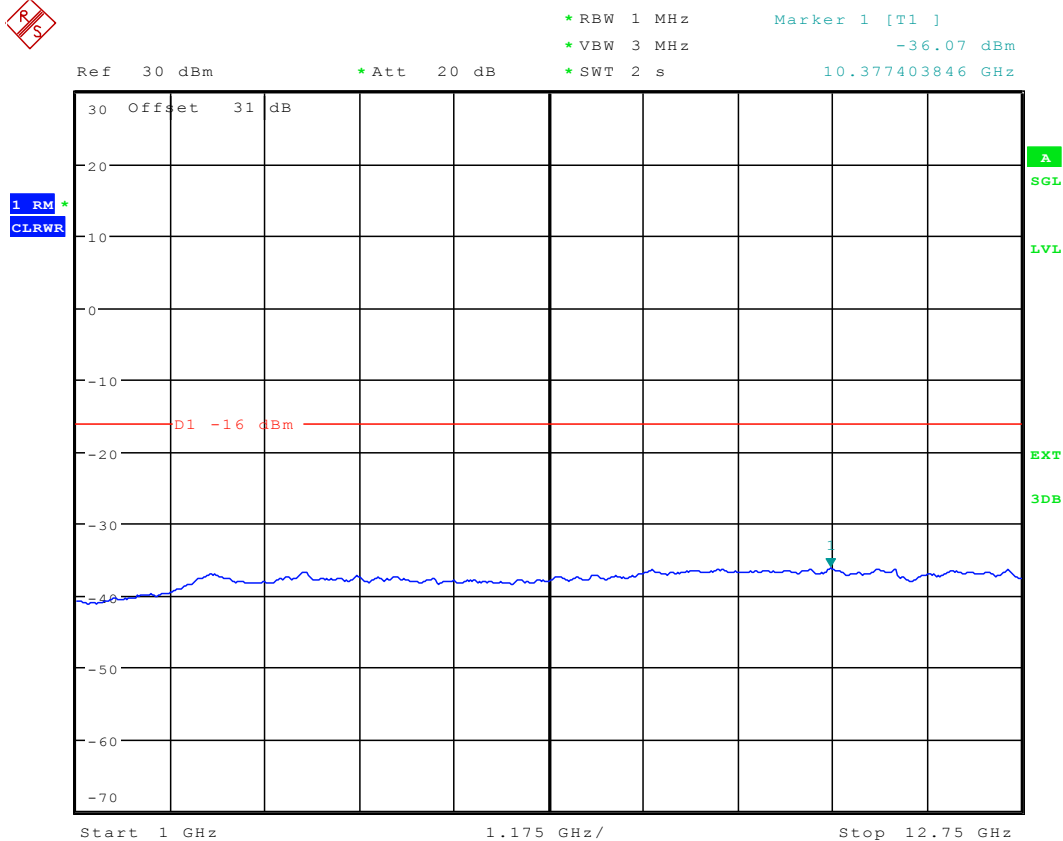
2.2 1L5M_M



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



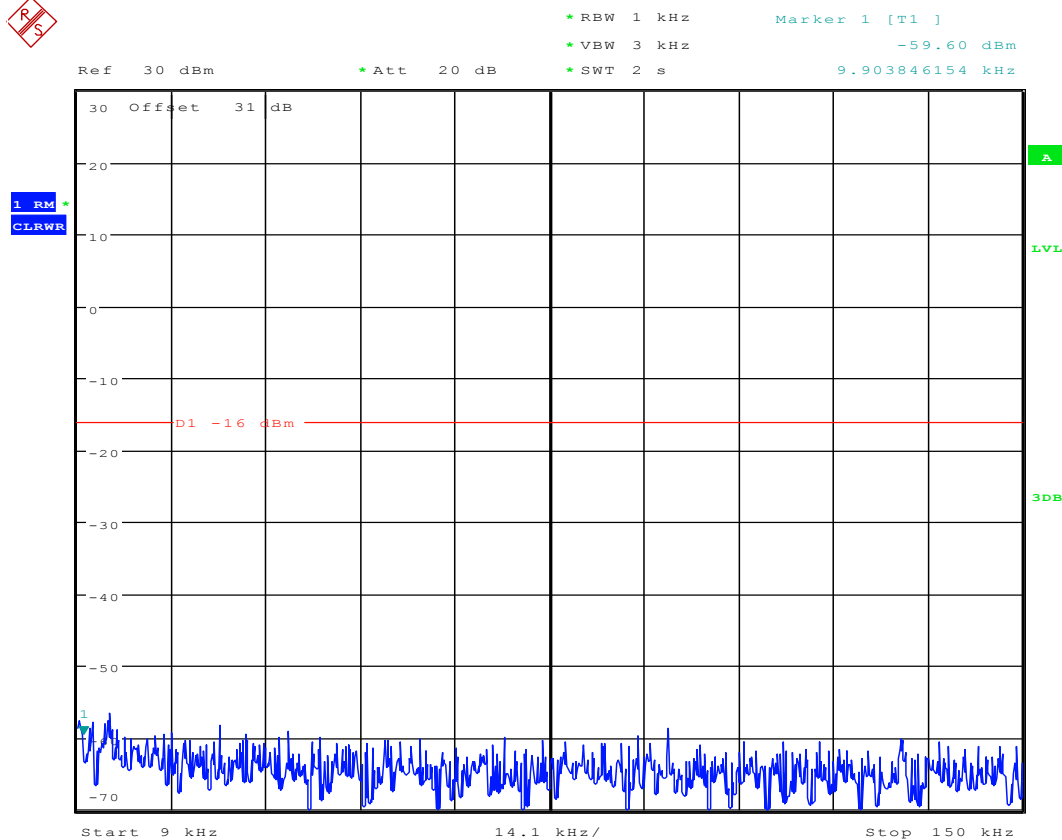
Date: 21.APR.2016 18:32:45



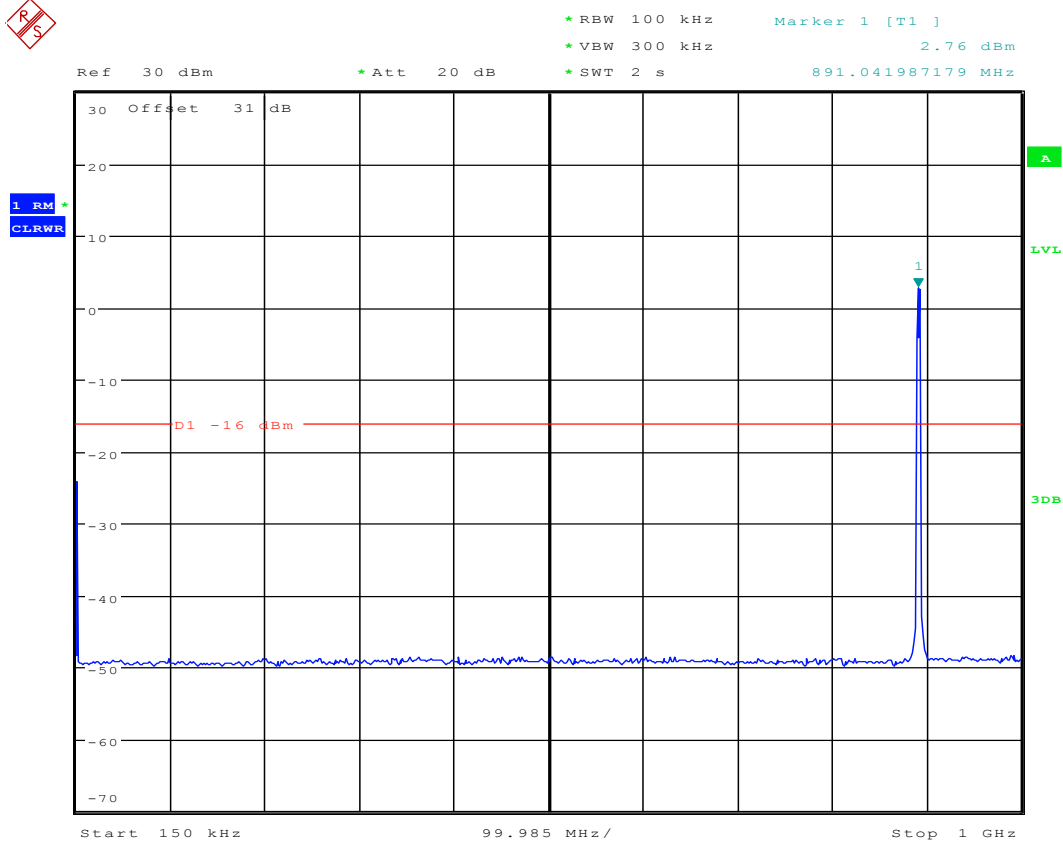
Date: 12.MAY.2016 17:16:13



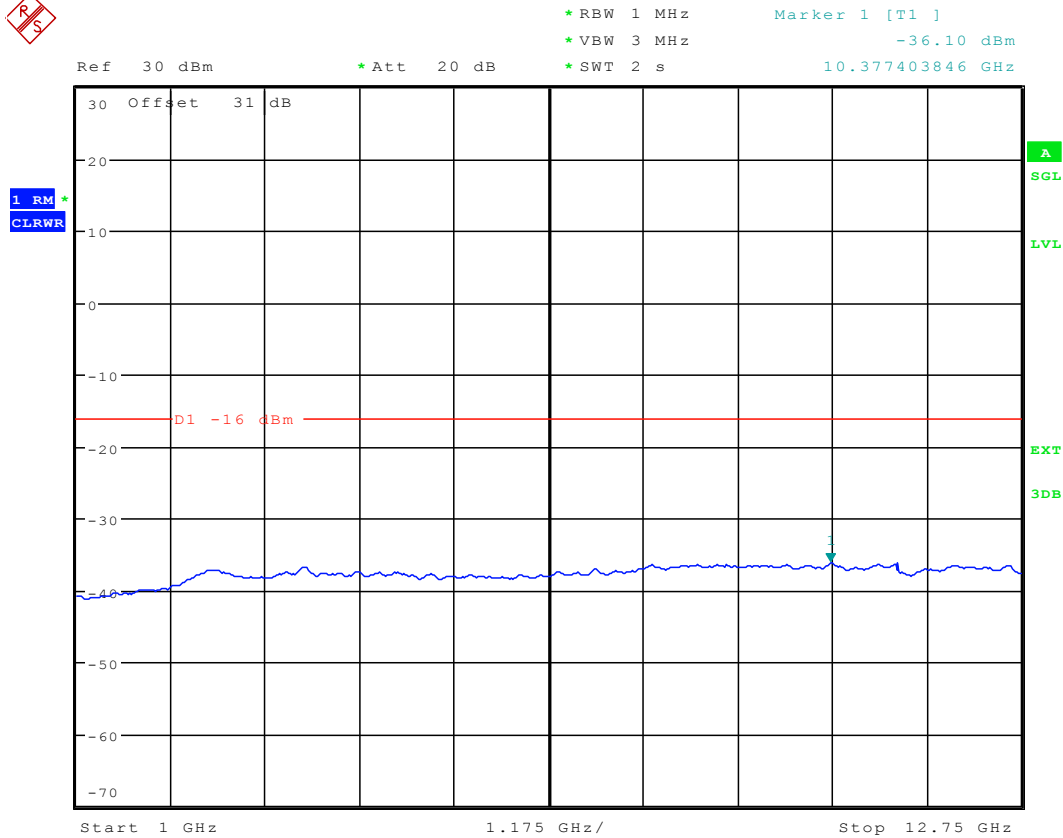
2.3 1L5M_T



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



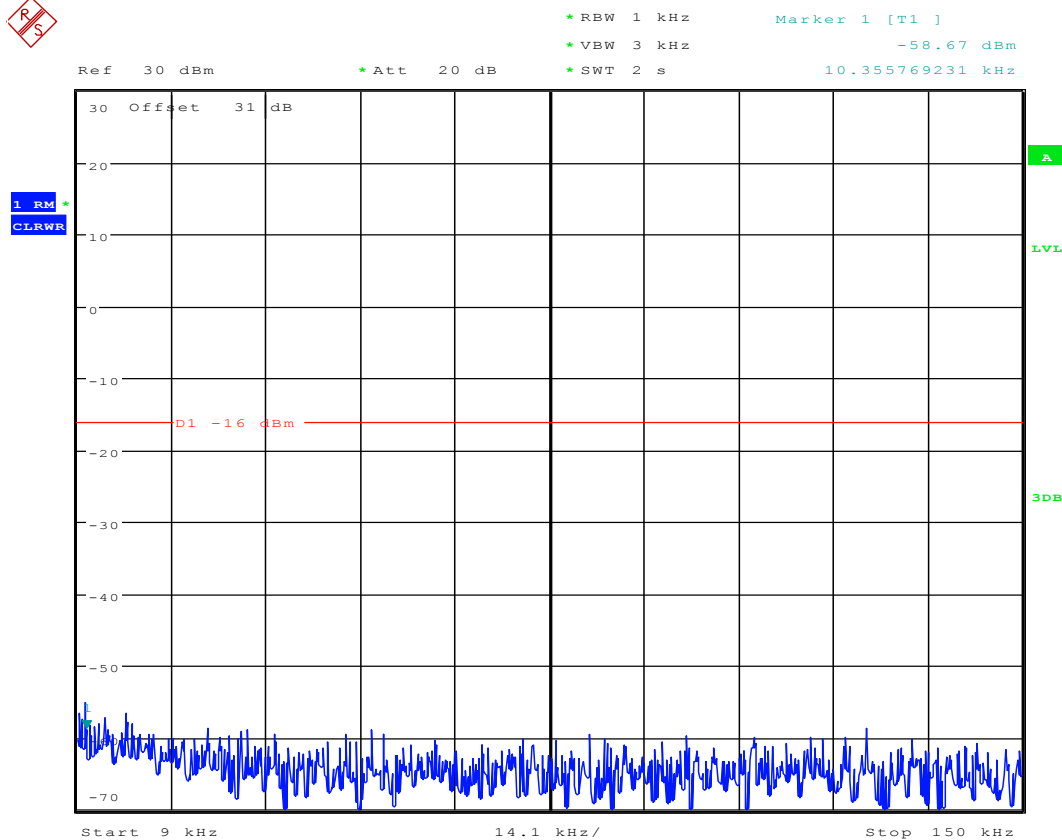
Date: 21.APR.2016 18:47:49



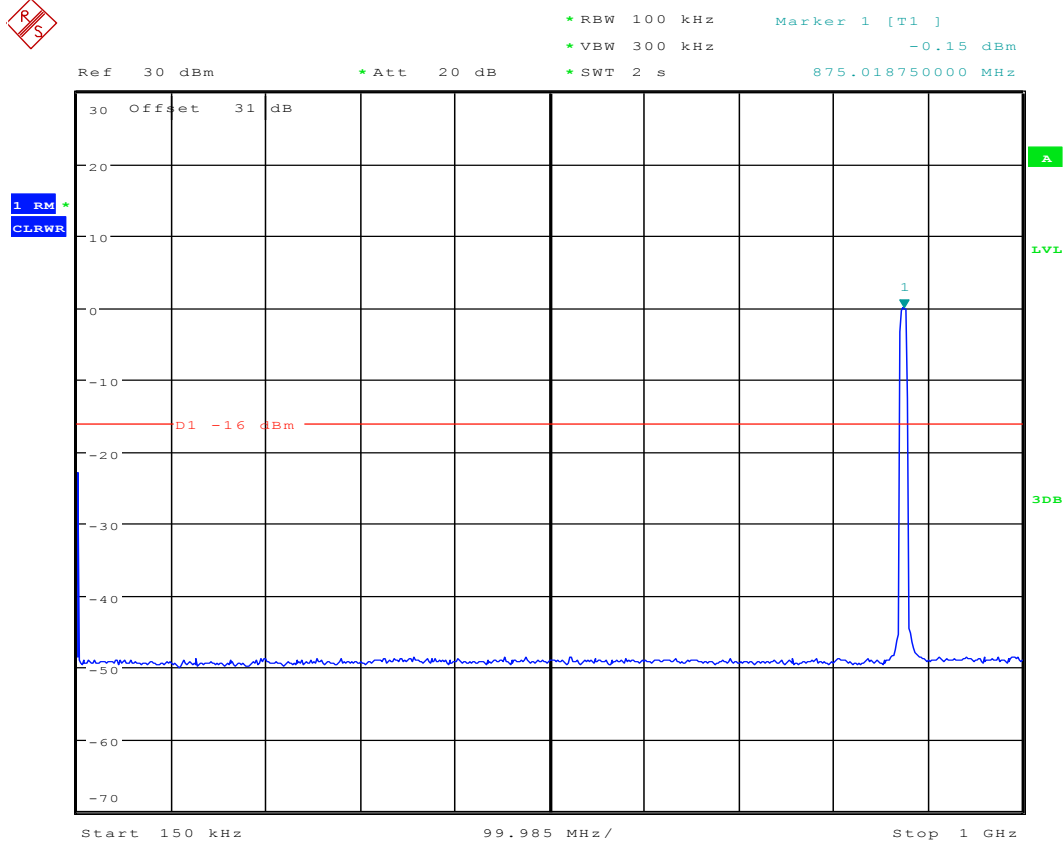
Date: 12.MAY.2016 17:16:41



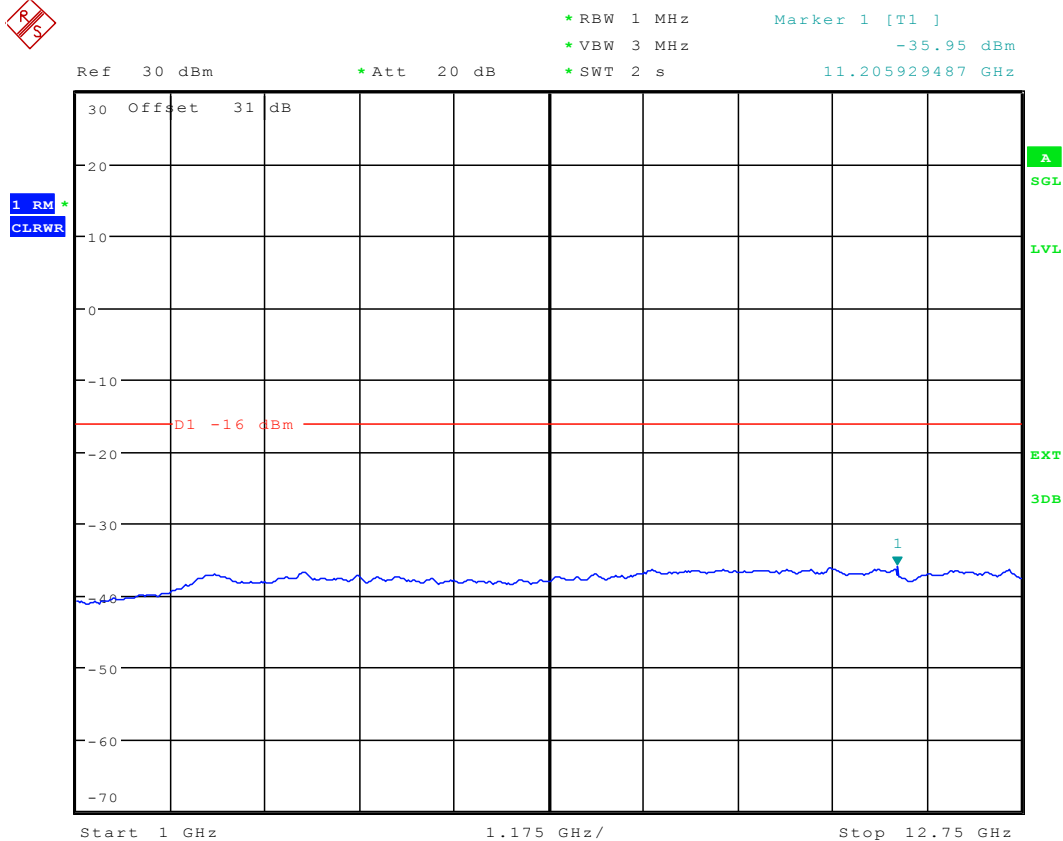
2.4 1L10M_B



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



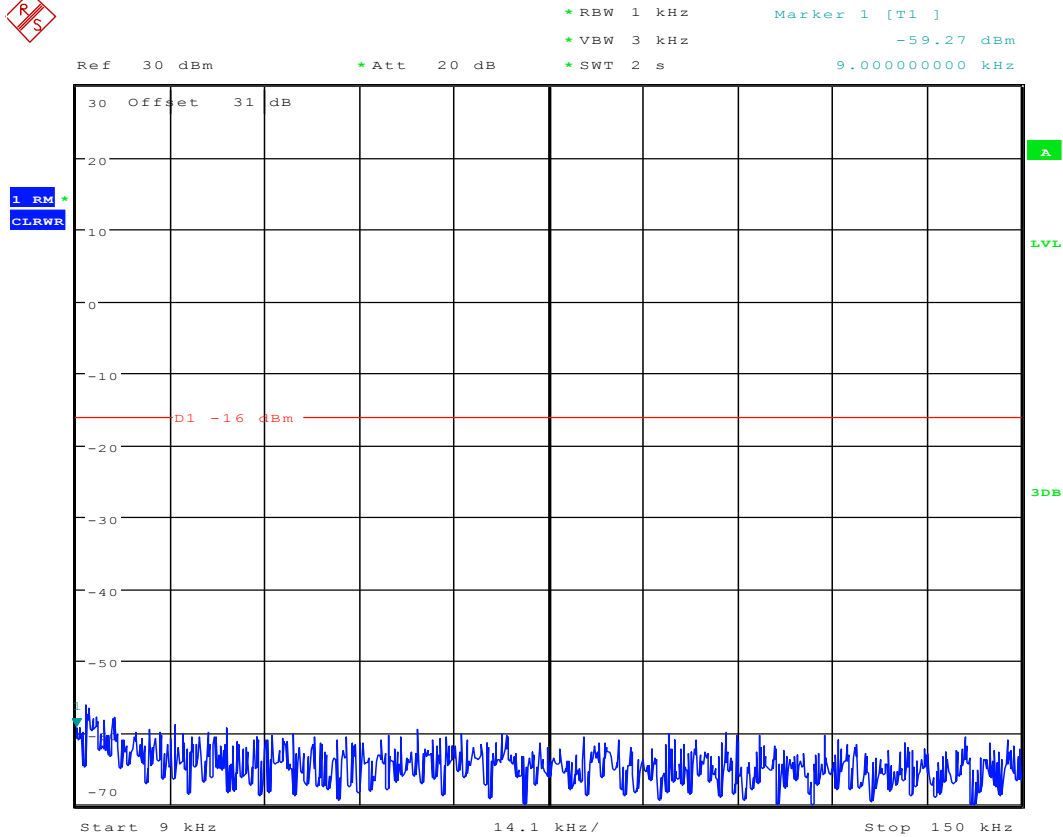
Date: 21.APR.2016 19:06:18



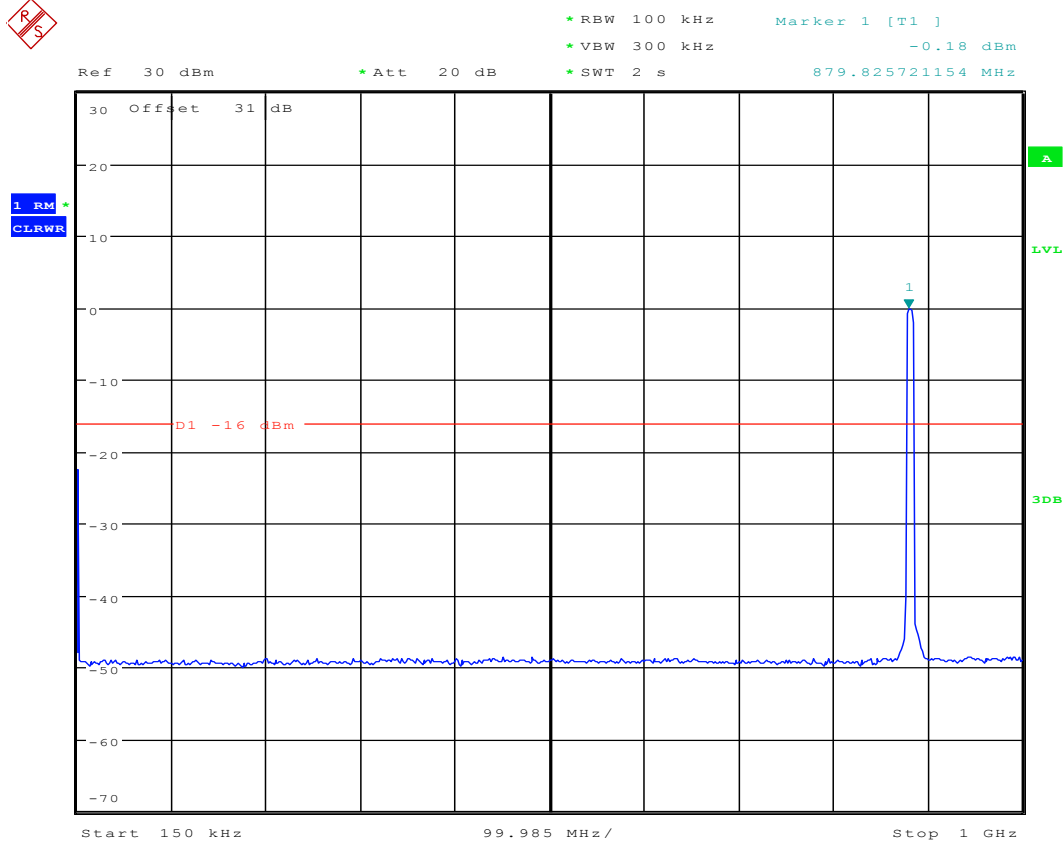
Date: 12.MAY.2016 17:23:11



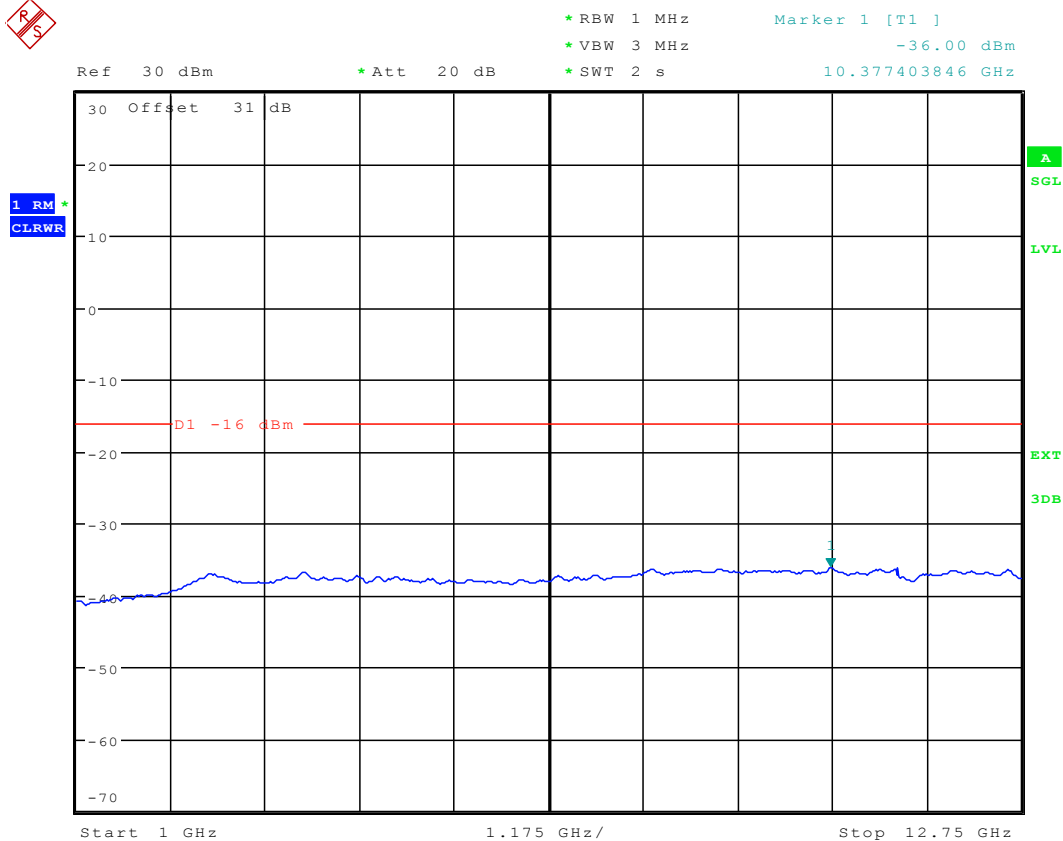
2.5 1L10M_M



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



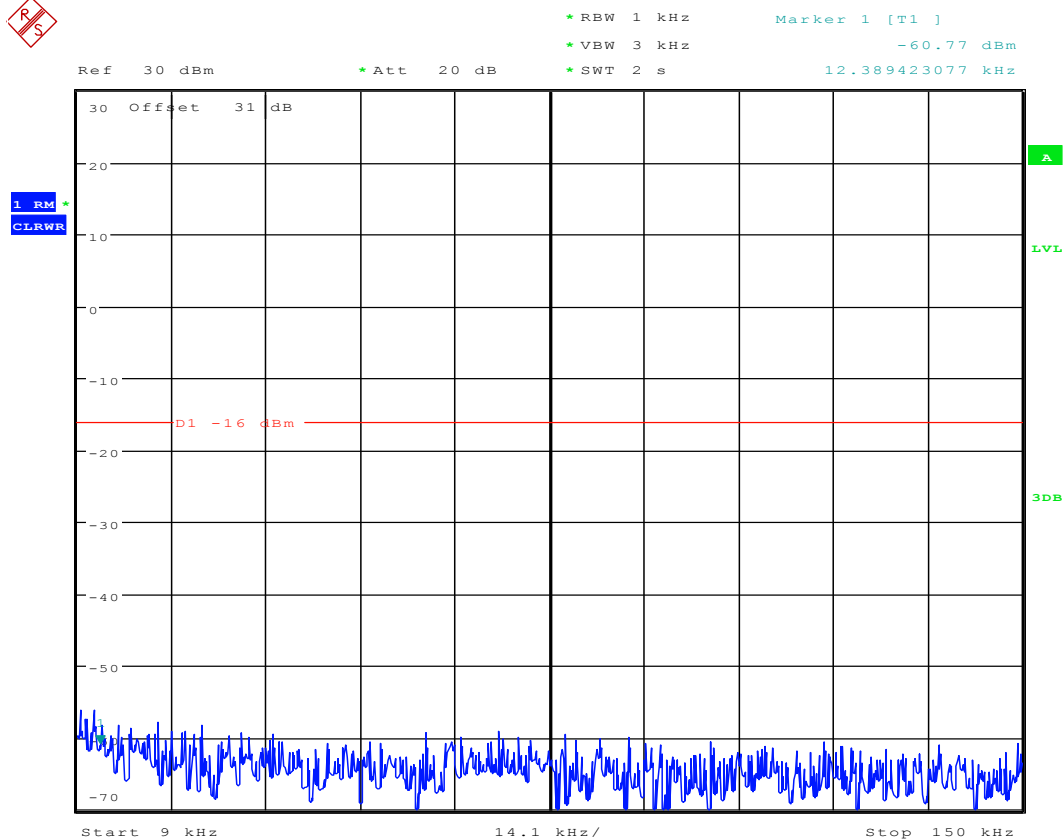
Date: 21.APR.2016 19:12:10



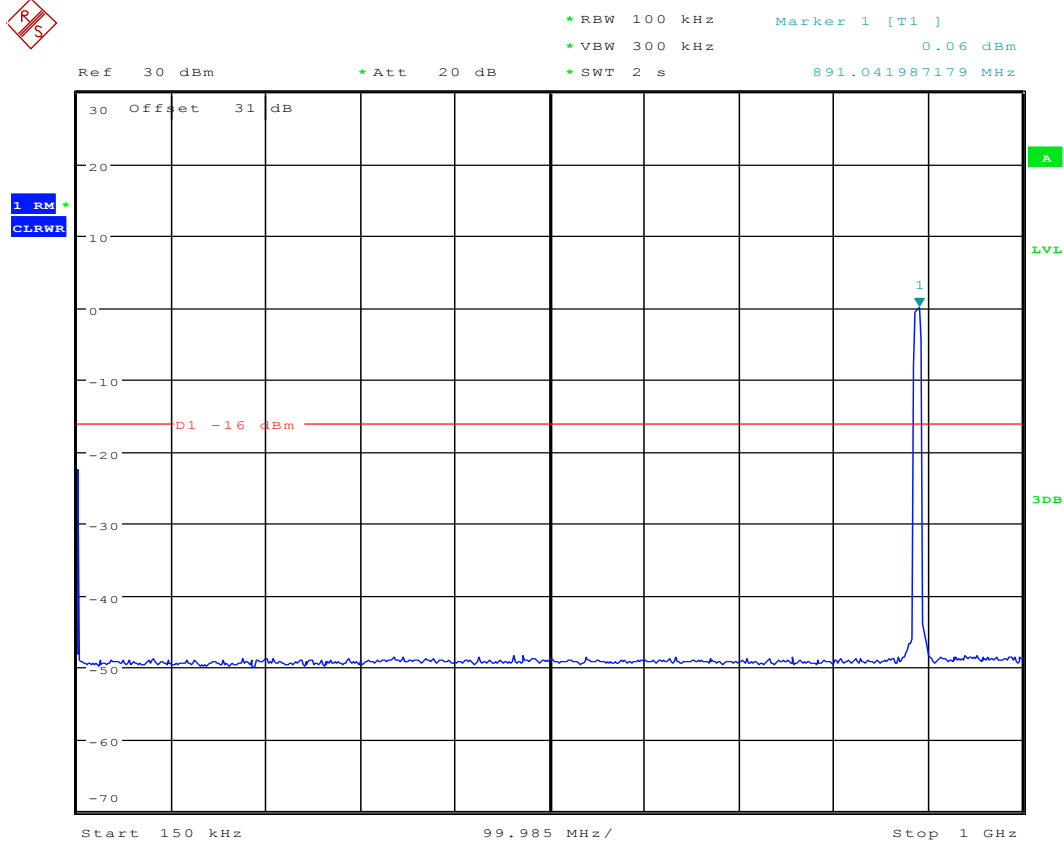
Date: 12.MAY.2016 17:24:42



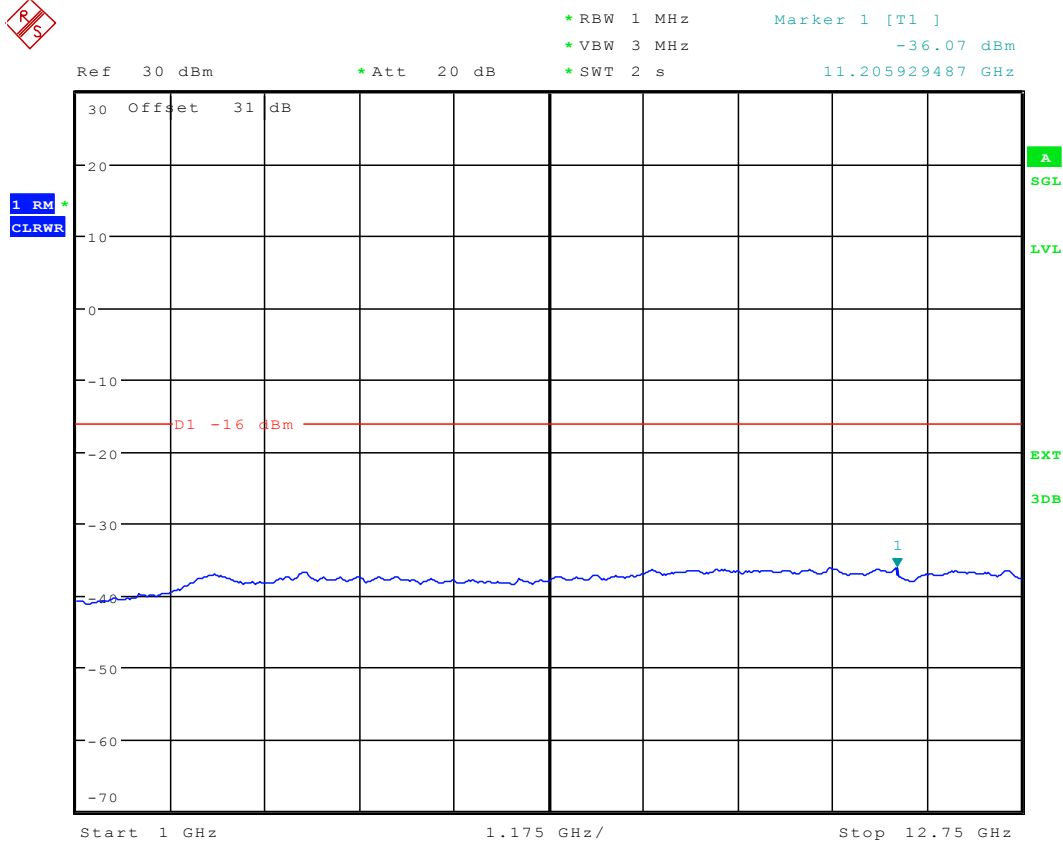
2.6 1L10M_T



Date: 21.APR.2016 19:17:48



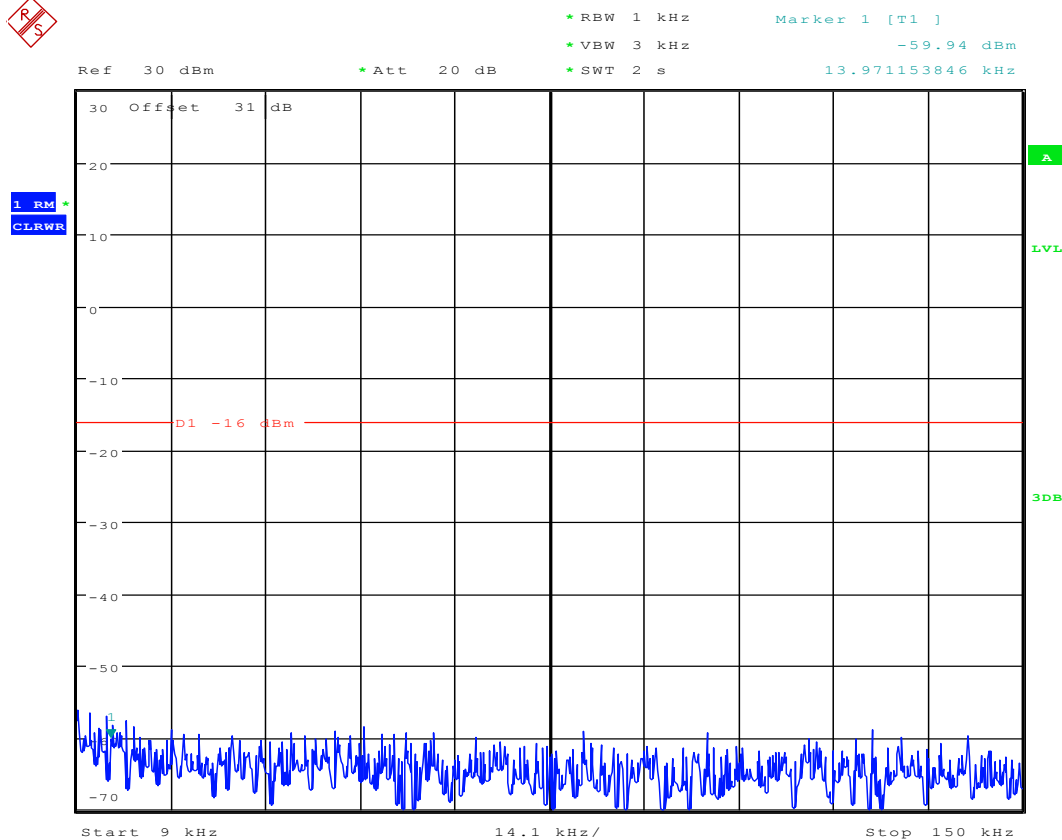
Date: 21.APR.2016 19:18:30



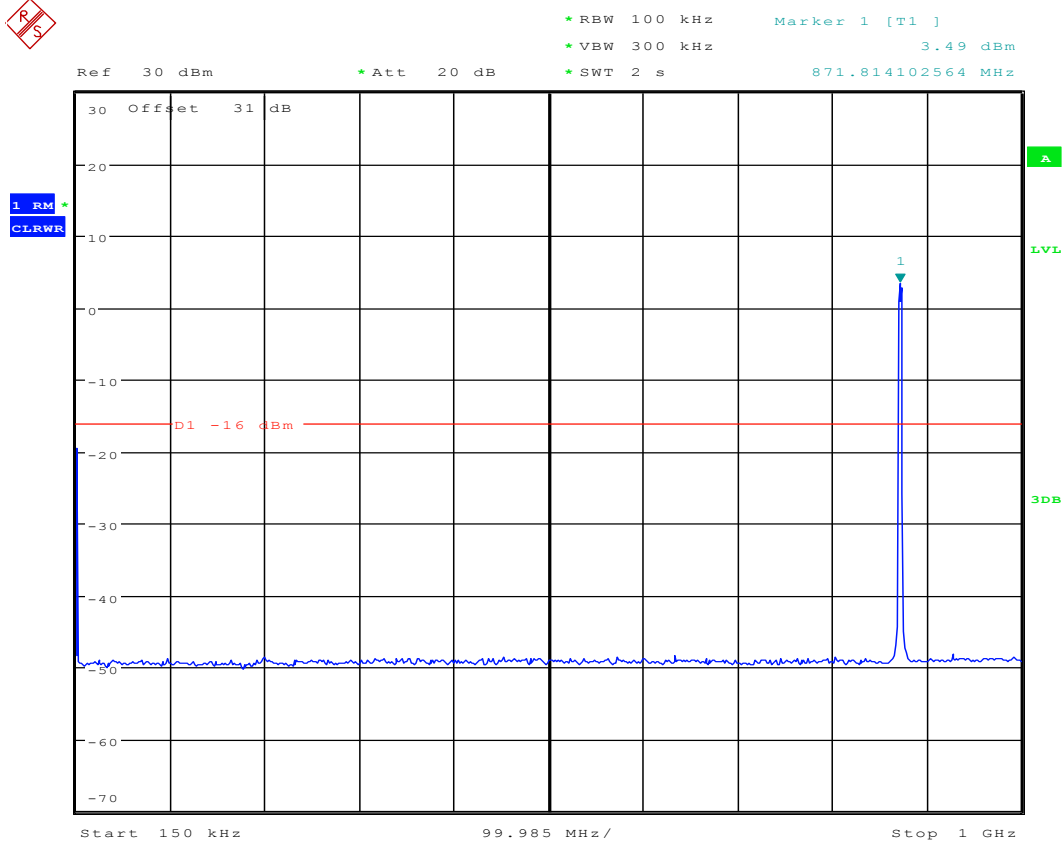
Date: 12.MAY.2016 17:26:32



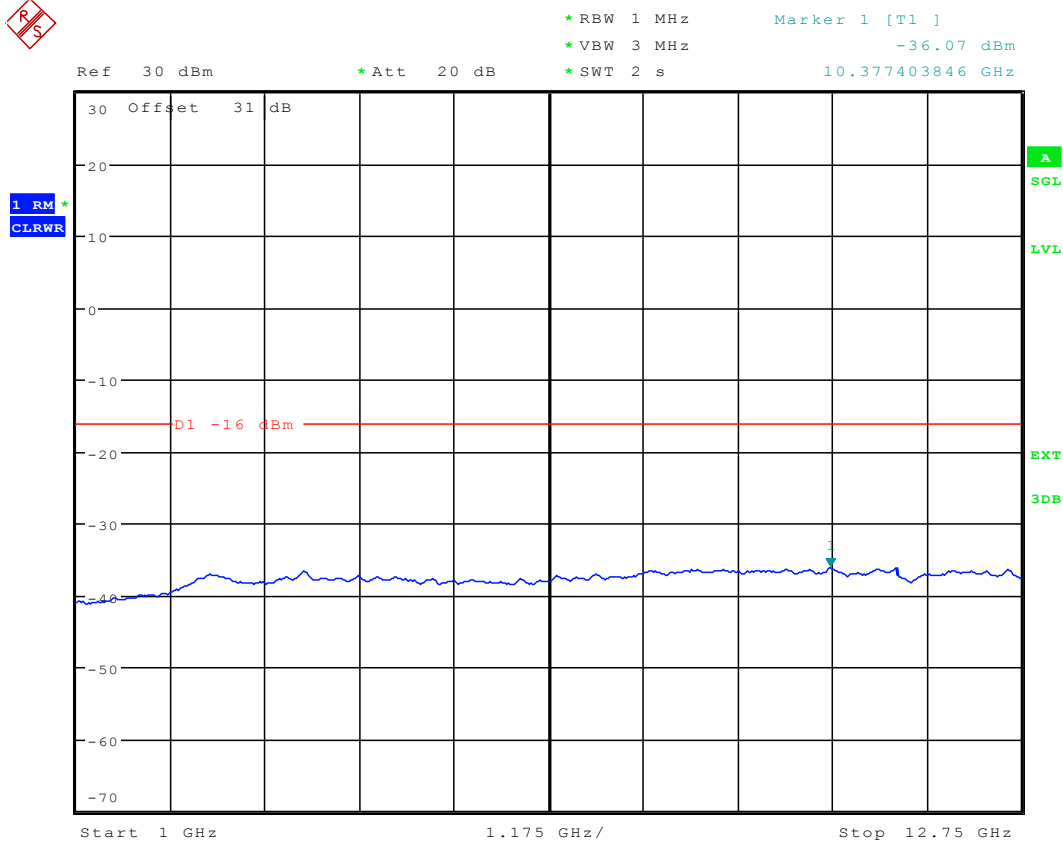
2.7 1U_B



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



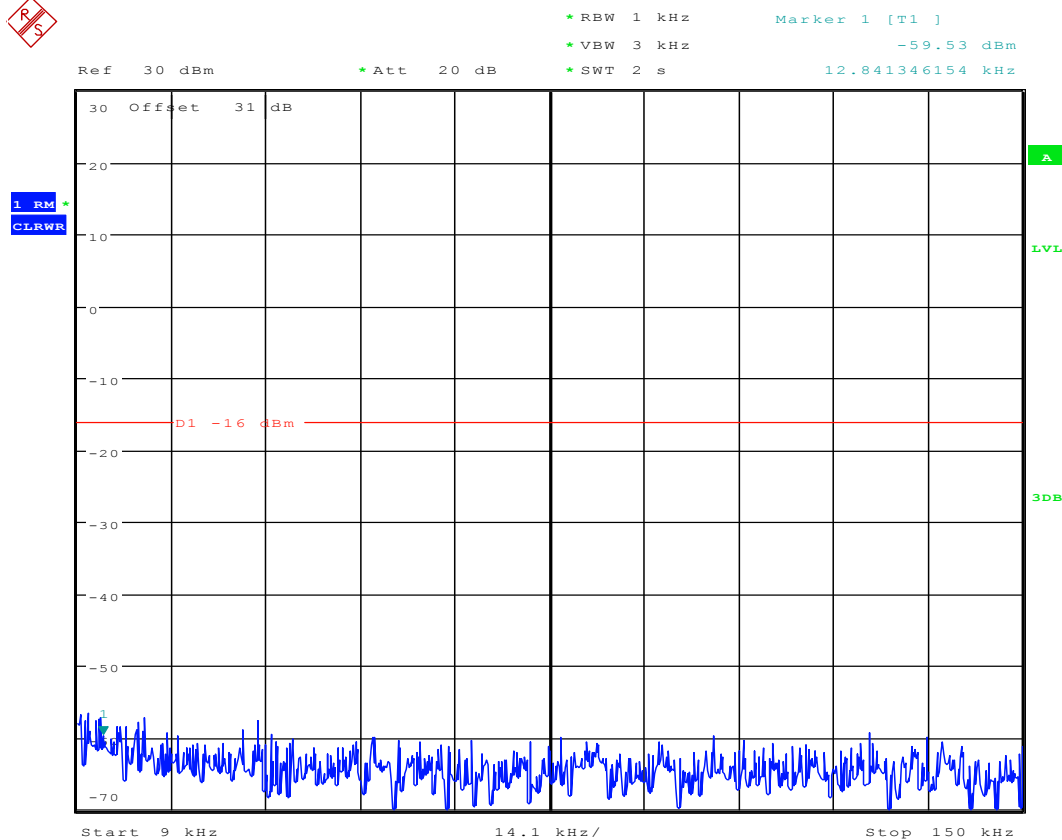
Date: 21.APR.2016 14:05:23



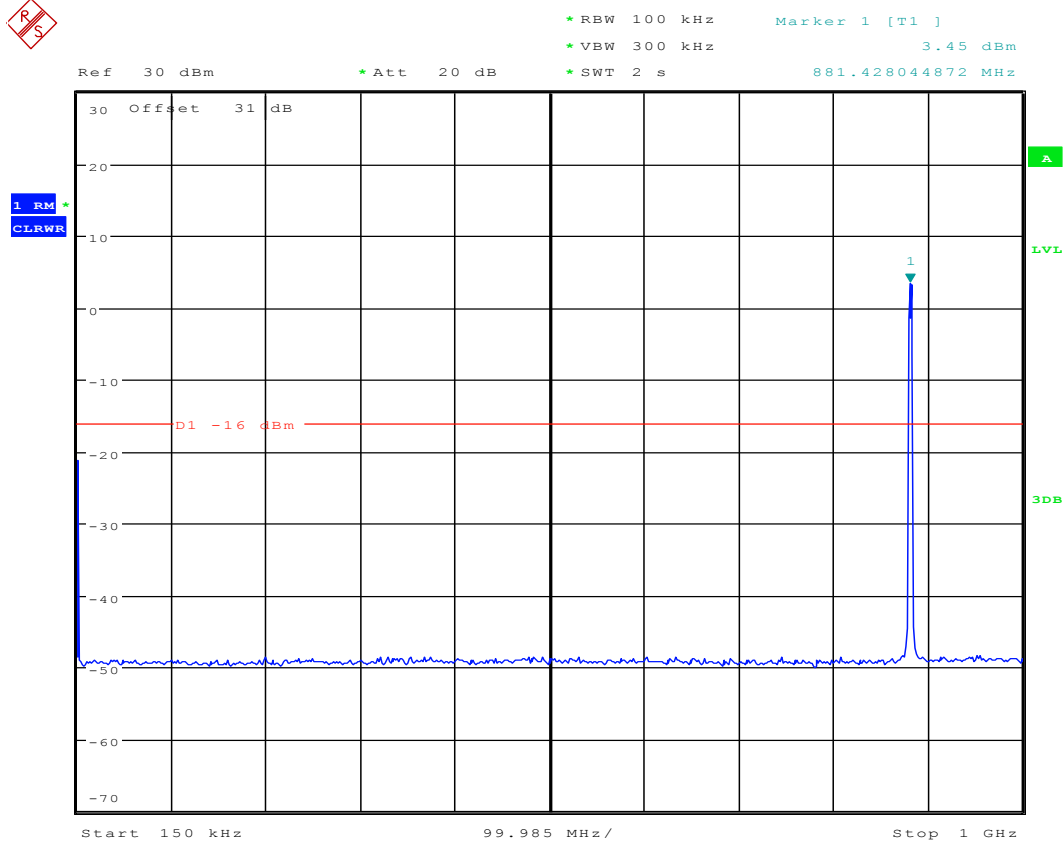
Date: 12.MAY.2016 17:37:49



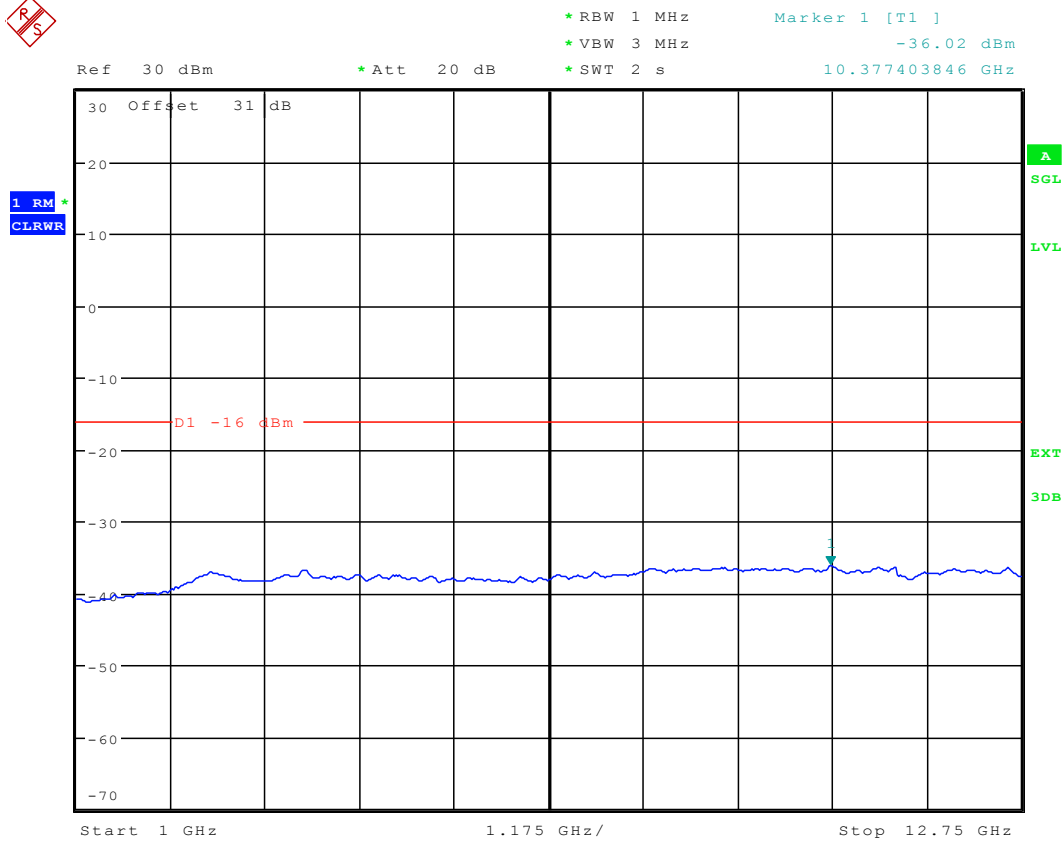
2.8 1U_M



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



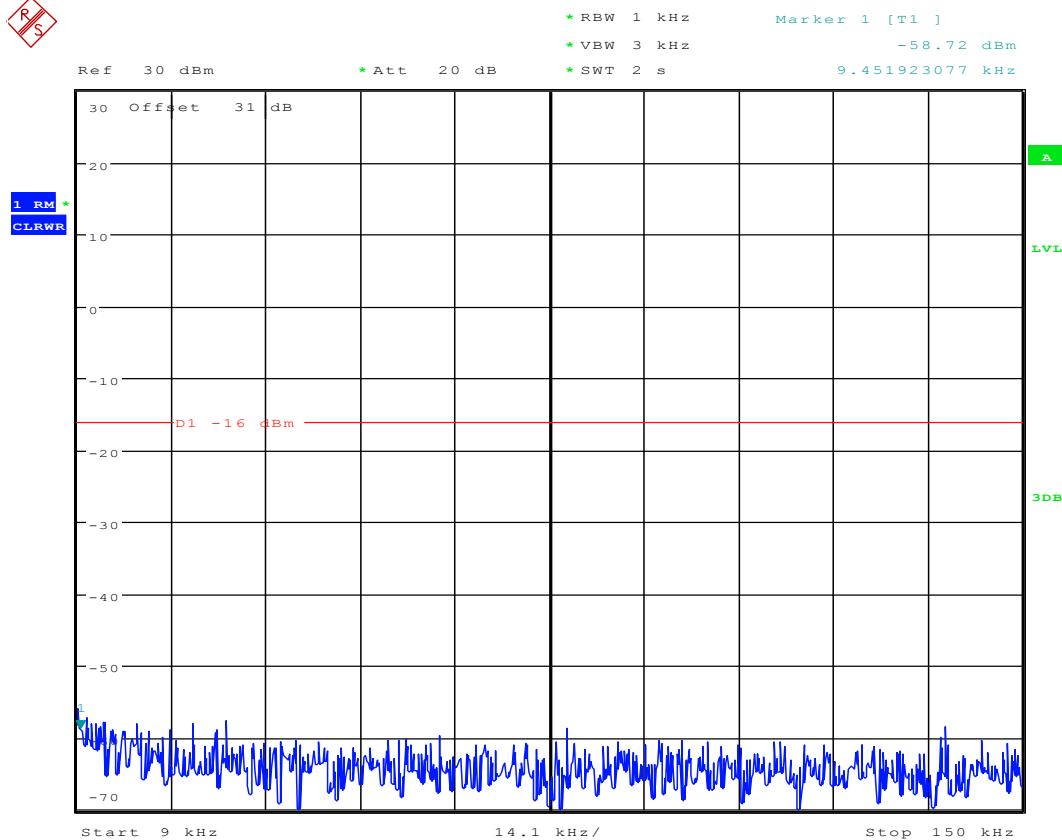
Date: 21.APR.2016 16:44:31



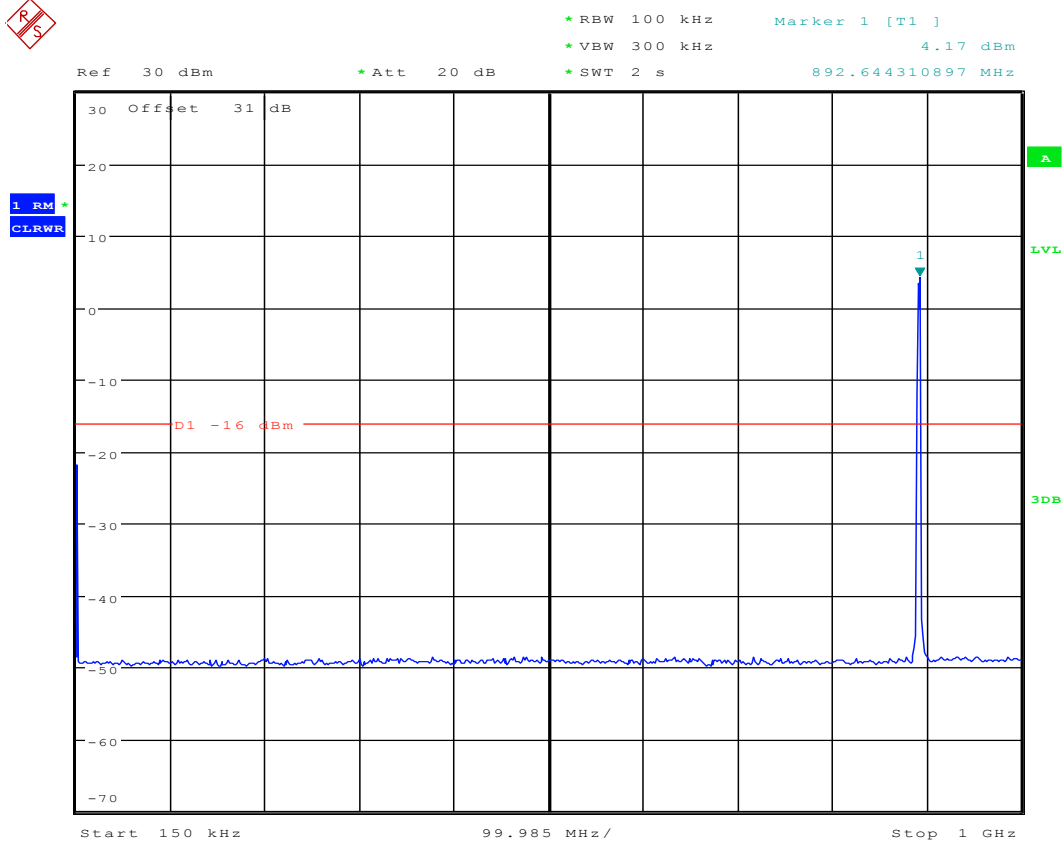
Date: 12.MAY.2016 17:39:19



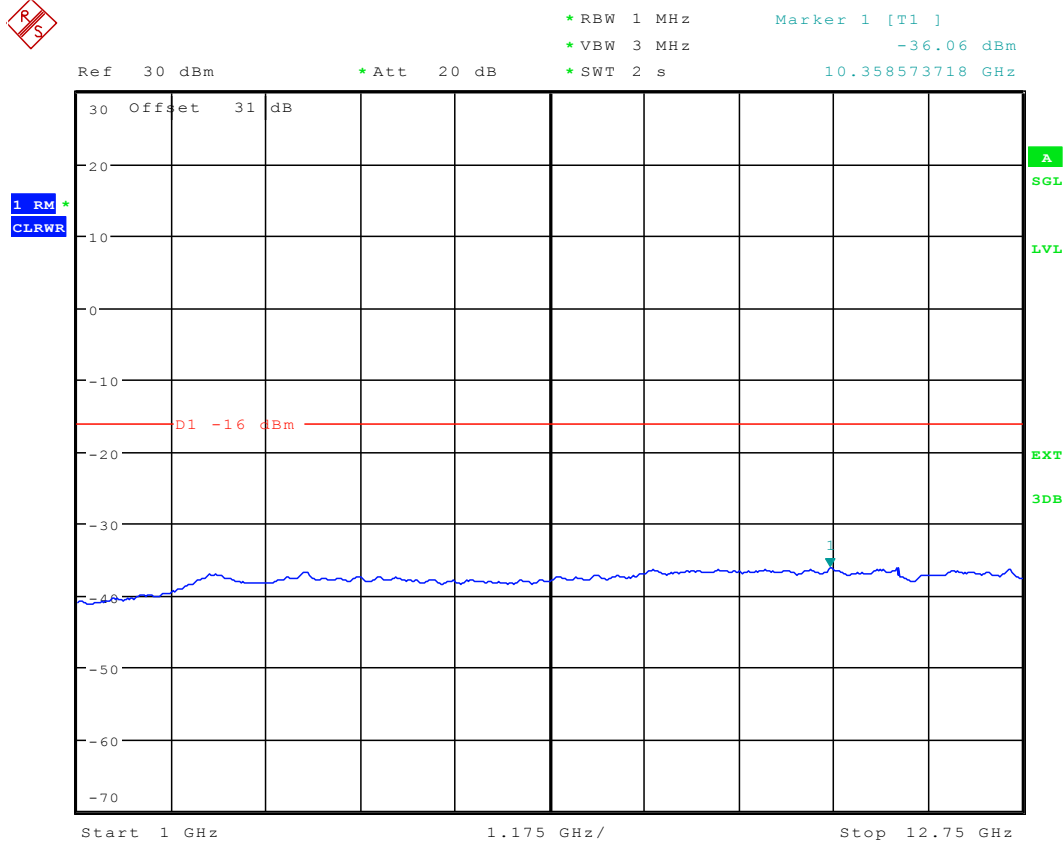
2.9 1U_T



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



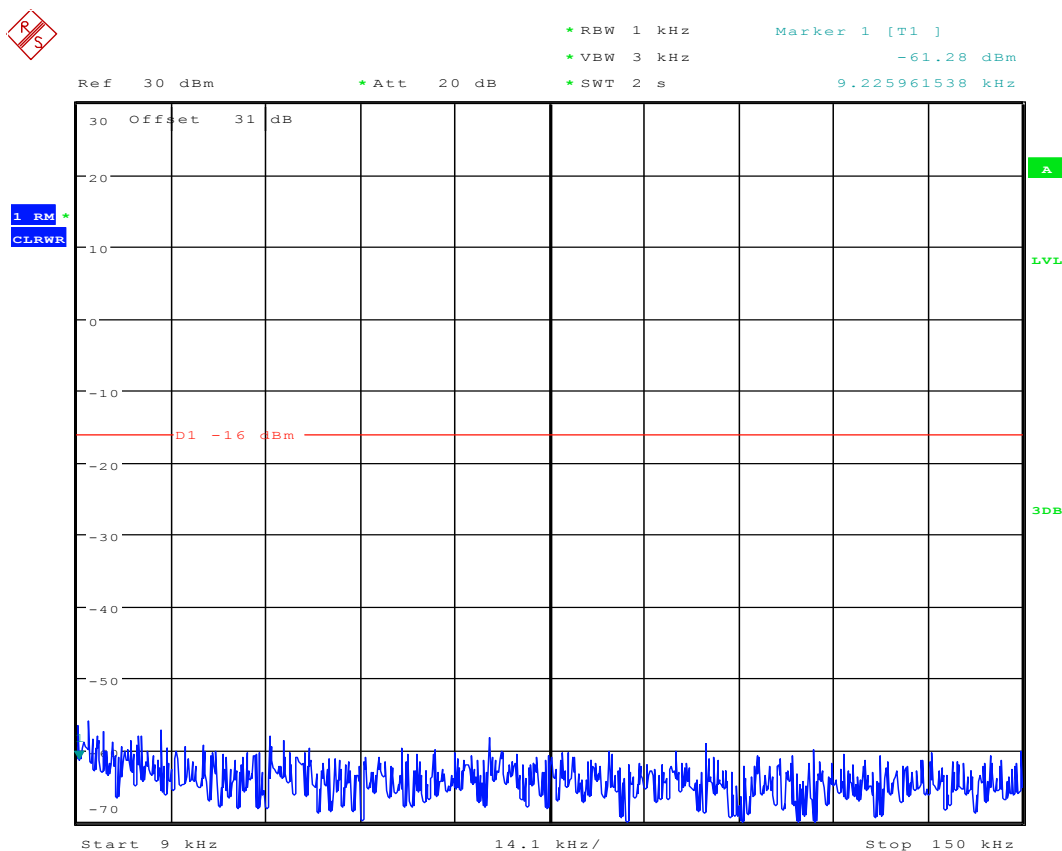
Date: 21.APR.2016 17:01:00



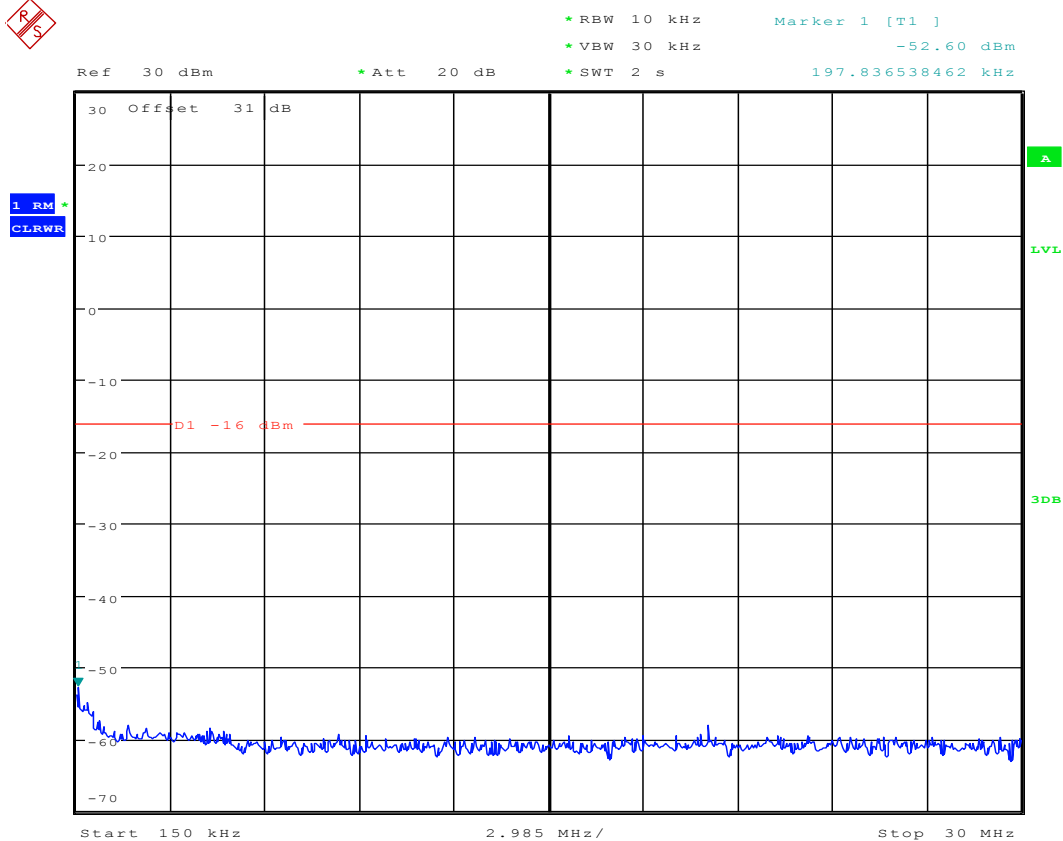
Date: 12.MAY.2016 17:40:49



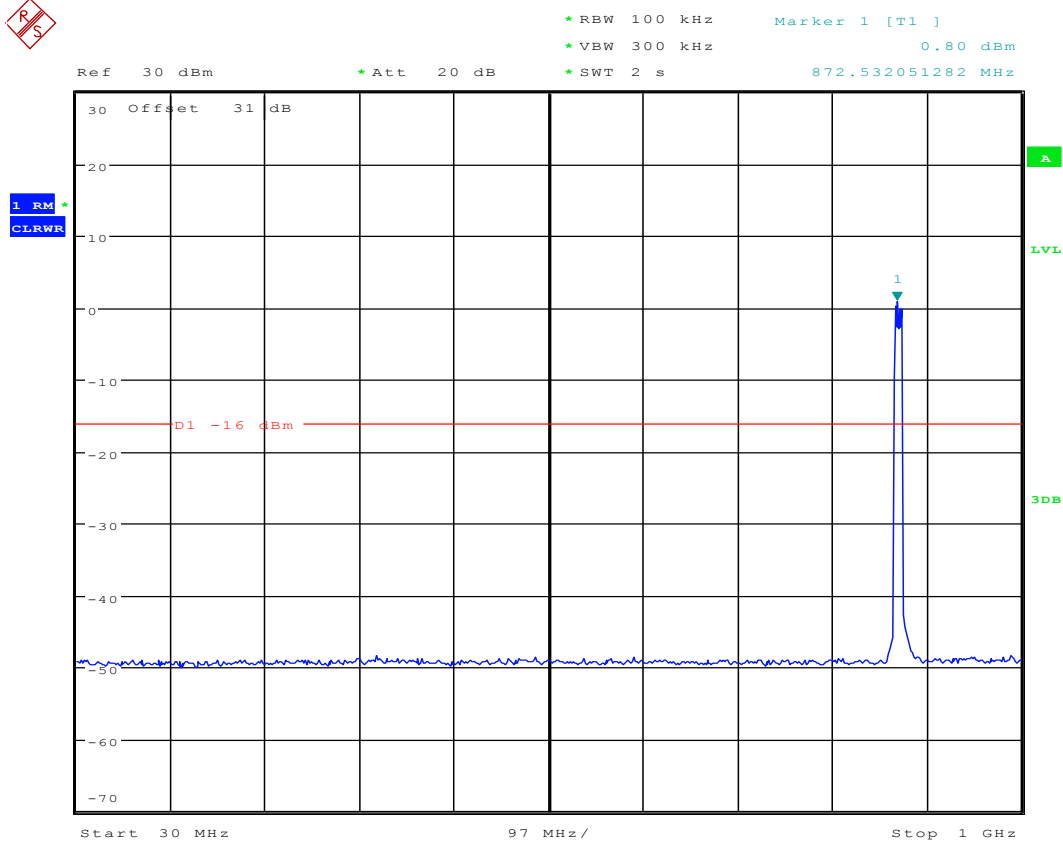
2.10 1U1L5M_B



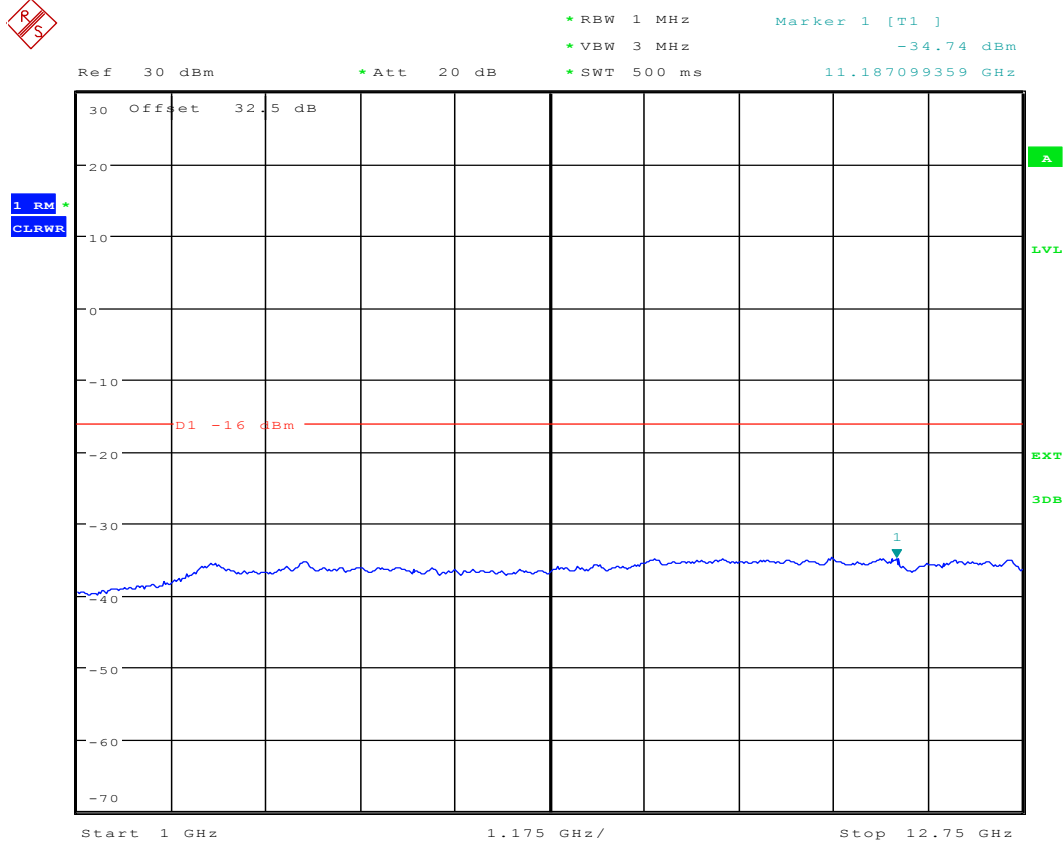
Date: 22.APR.2016 11:34:38



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



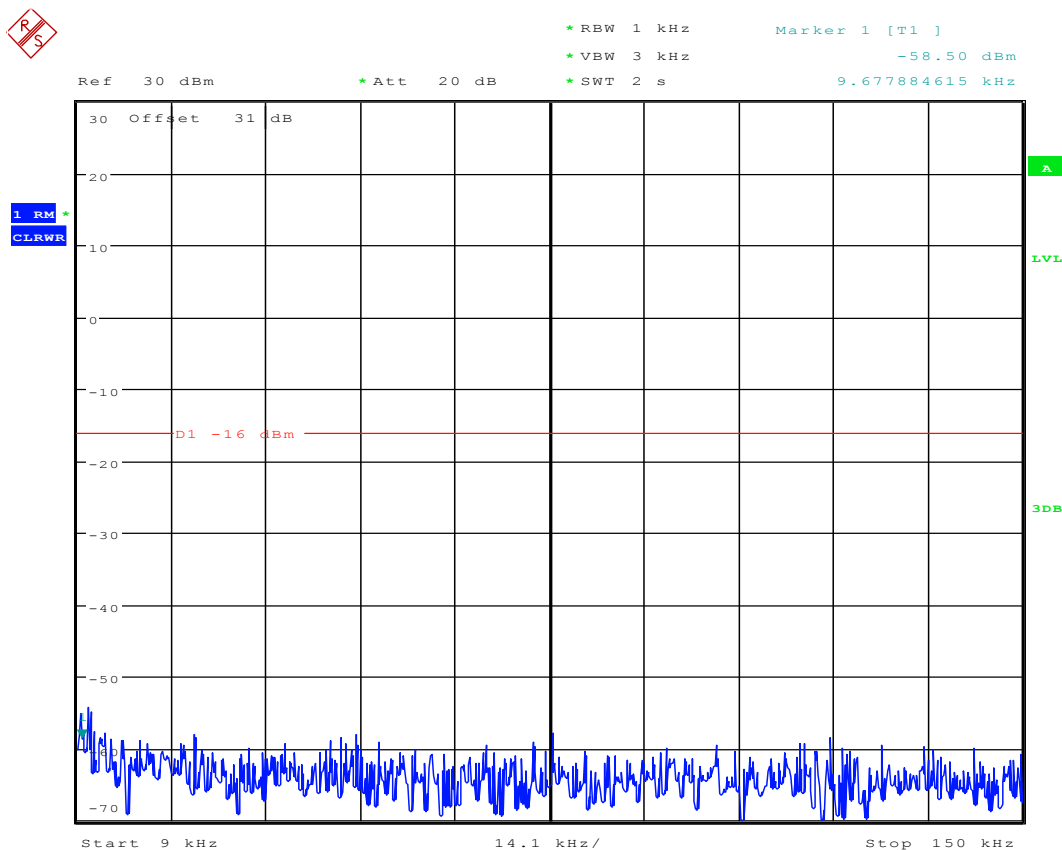
Date: 22.APR.2016 11:35:57



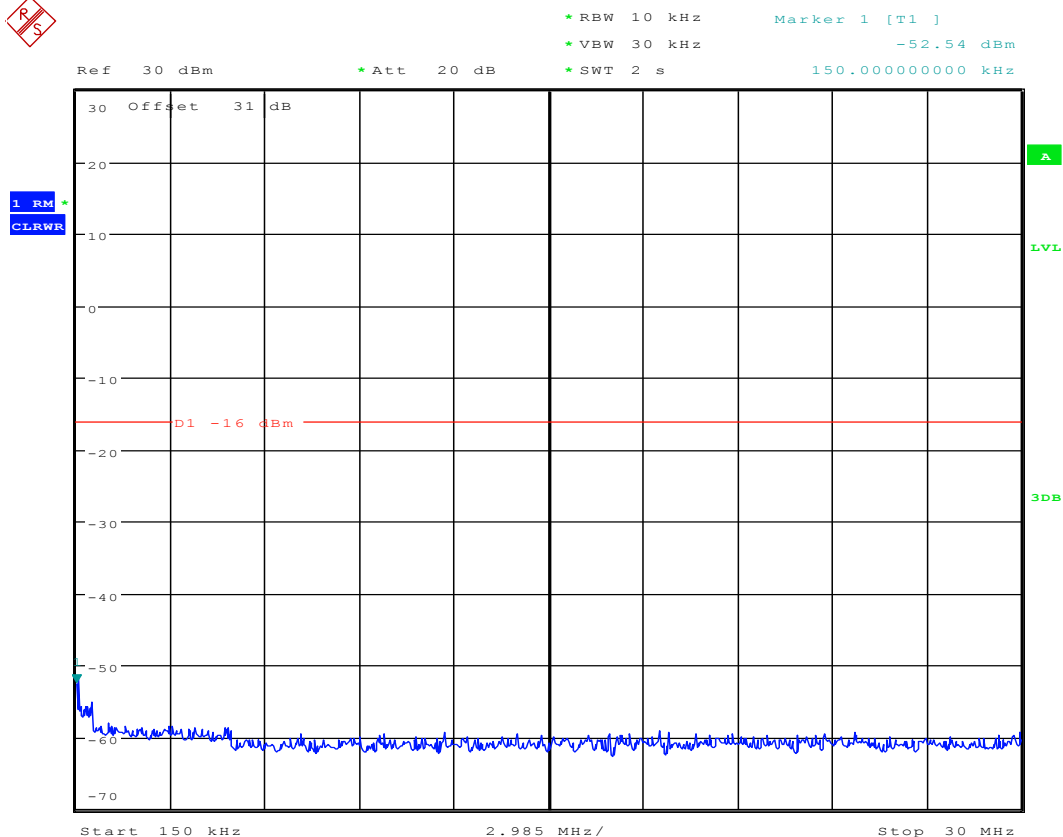
Date: 15.MAY.2016 23:47:25



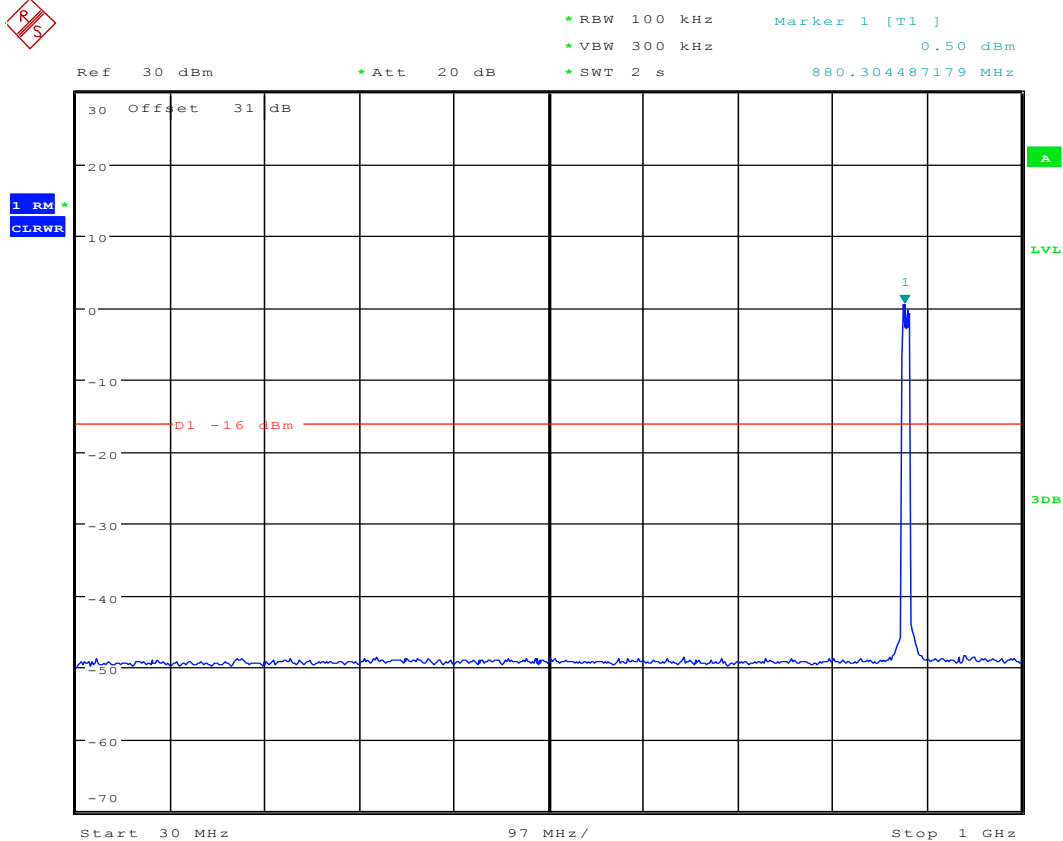
2.11 1U1L5M_M



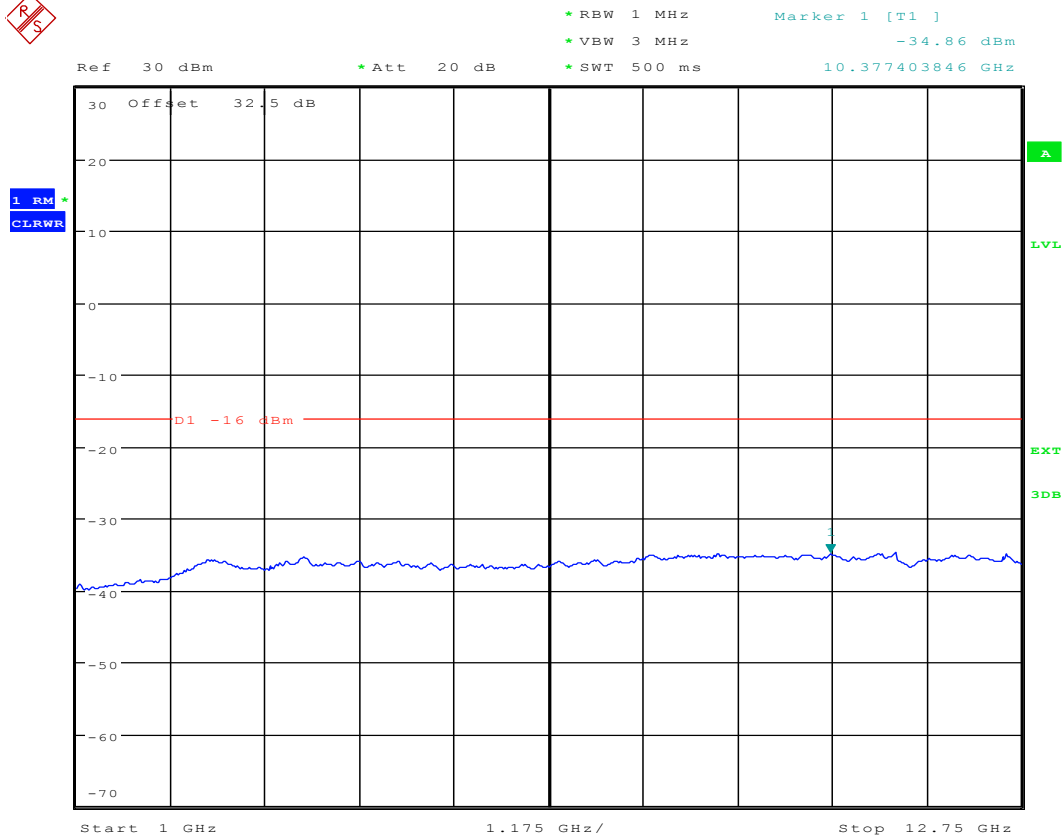
Date: 22.APR.2016 13:00:48



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



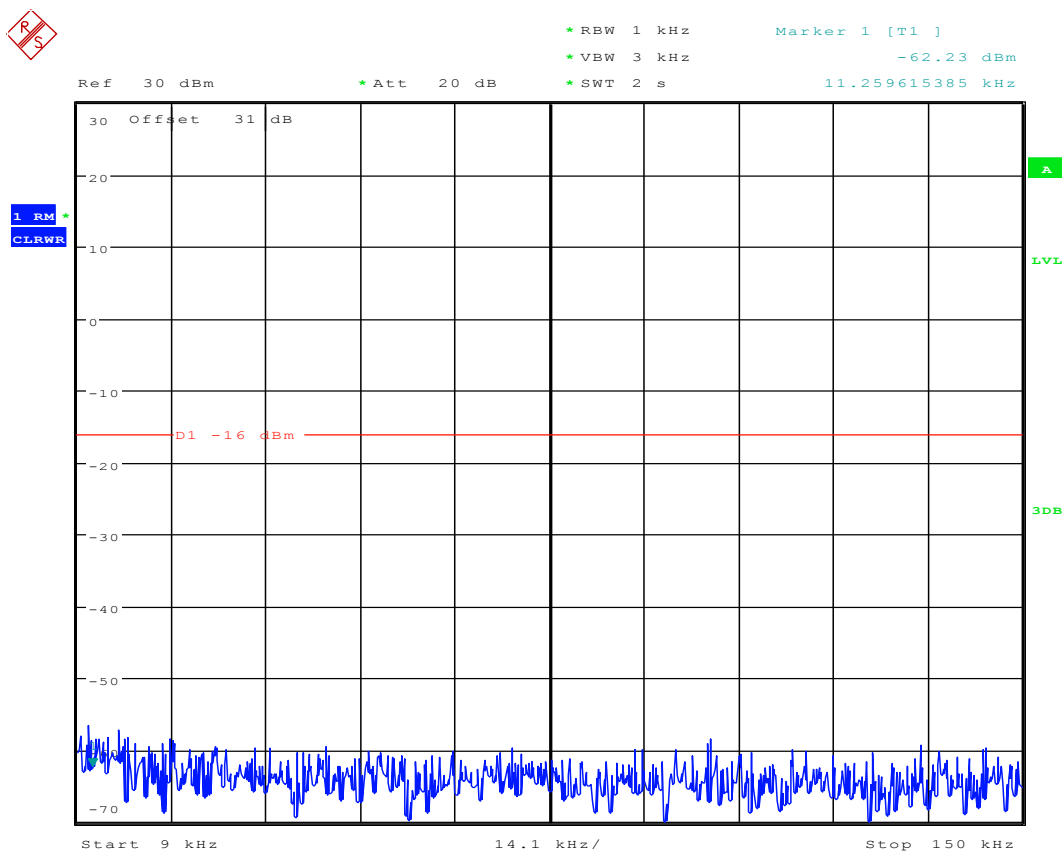
Date: 22.APR.2016 13:02:11



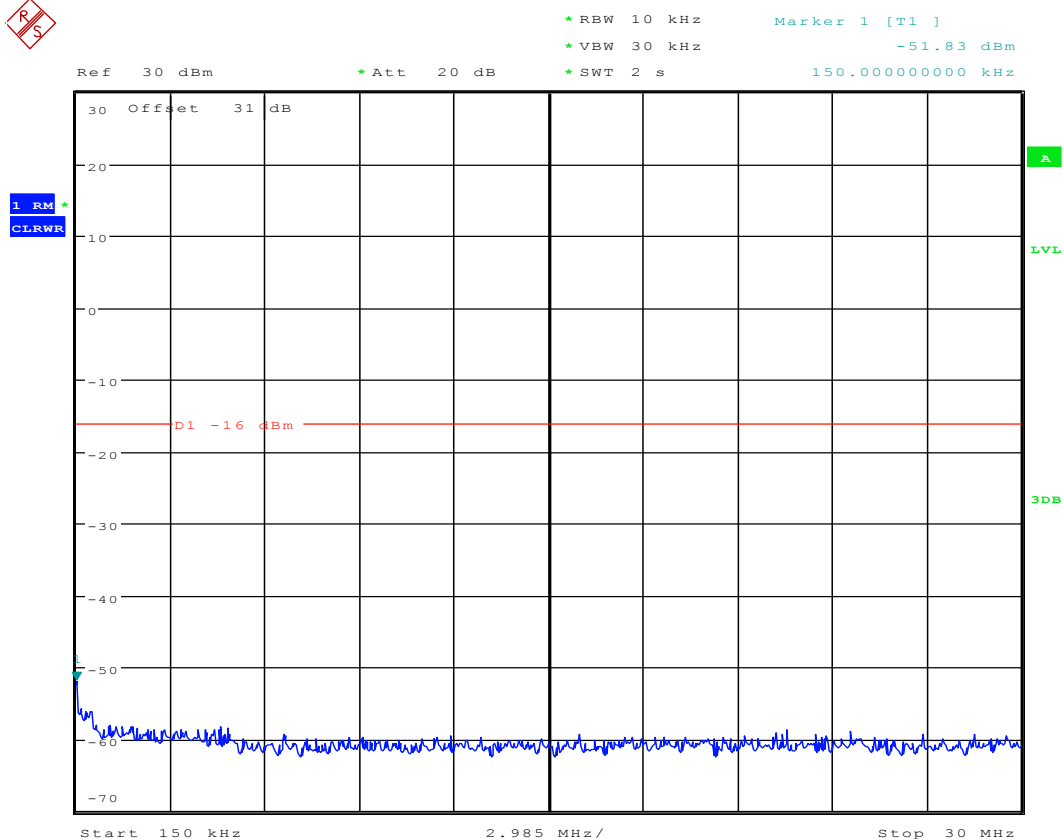
Date: 15.MAY.2016 23:48:17



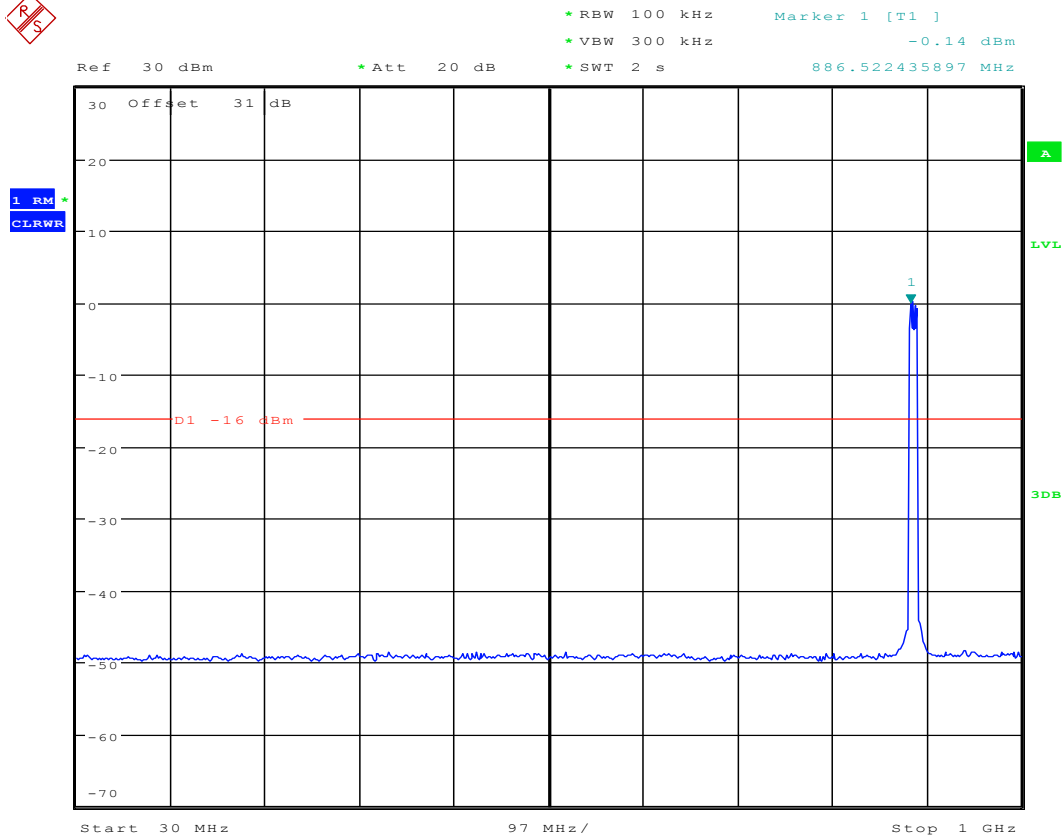
2.12 1U1L5M_T



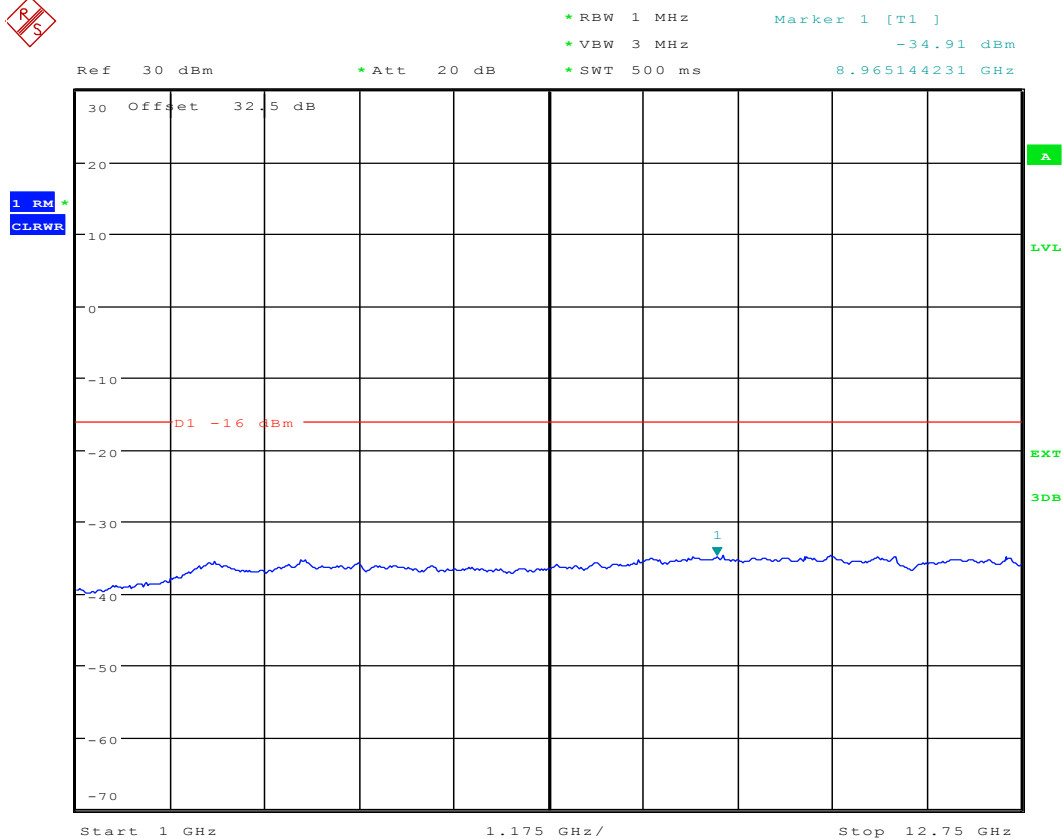
Date: 22.APR.2016 12:39:32



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

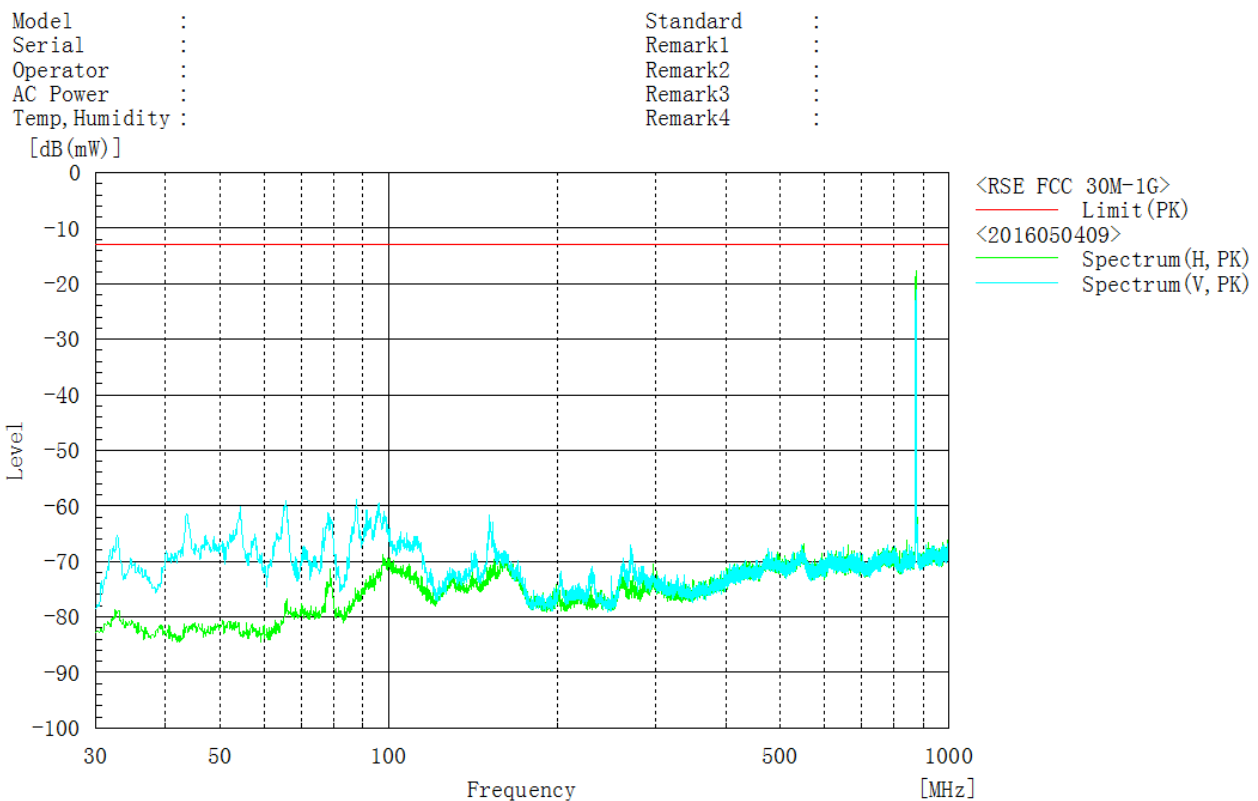
Note: The setting of analyzer is below

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

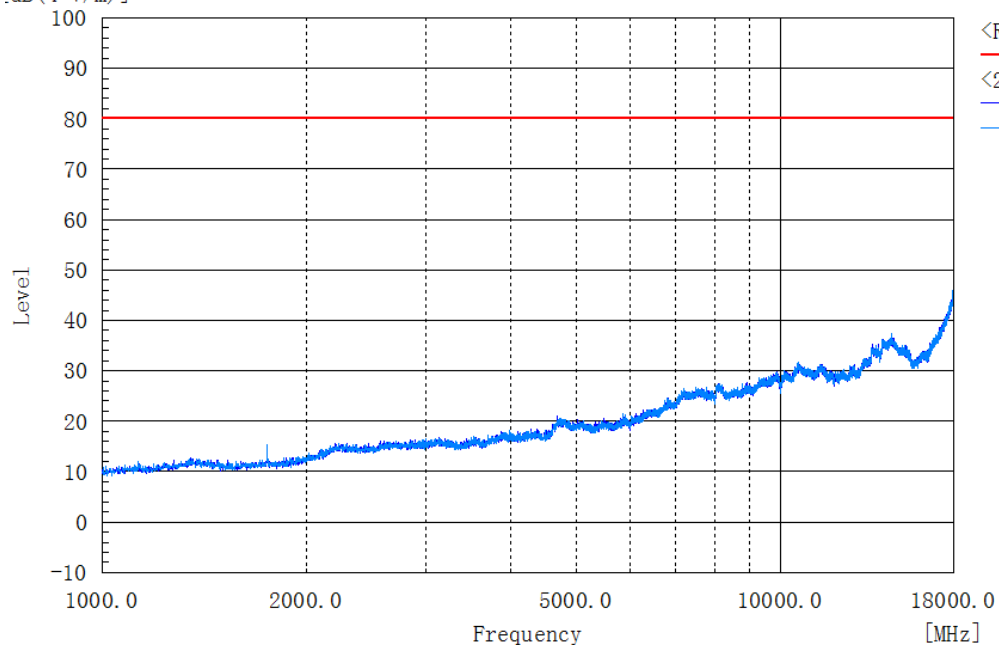




2.2 1GHz-18GHz

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

[dB(μV/m)]



<RSE to RE_80.08dBuV_1G
Limit(AV)
<2016050416>
Spectrum(H, AV)
Spectrum(V, AV)



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