



RF Test Report

Product Name: Micro BTS

Product Model: BTS3202E LTE

Report Number: SYBH(R)031042012EB-1

FCC ID: QISBTS3202E-AWS

IC ID: 6369A-3202EAWS

Reliability Laboratory of Huawei Technologies Co., Ltd.

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2. The laboratory has Passed the accreditation by The American Association for Laboratory Accreditation (A2LA). The accreditation number is 2174.01.
3. The laboratory has been listed by the US Federal Communications Commission to perform electromagnetic emission measurements. The site recognition number is 97456.
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Applicant: Huawei Technologies Co., Ltd.
Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129, P.R.C
Product Name: Micro BTS
Product Model: BTS3202E LTE
Version: V100R005

Date of Receipt Sample: 2012-04-10
Start Date of Test: 2012-04-10
End Date of Test: 2012-05-17

Test Result: Pass

Approved by Senior Engineer:	2012-05-17	Zhang Xinghai	<i>Zhang Xing hai</i>
	Date	Name	Signature

Prepared by:	2012-05-17	Hu Wei	<i>Hu Wei</i>
	Date	Name	Signature



Modification Record

No.	Last Report No.	Modification Description
1	---	First report.



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1 General Information

1.1 Applied Standard

Applied Rules: 47 CFR FCC Part 27, Subpart C (10-1-11 Edition)
IC RSS-Gen (Issue 3, December 2010)
IC RSS-139 (Issue 2, February 2009)

1.2 Test Location

Test Location 1: Reliability Laboratory of Huawei Technologies Co., Ltd.
Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129, P.R.C

1.3 Test Environment Condition

Ambient Temperature: 19 to 26 °C
Ambient Relative Humidity: 48 to 67 %
Atmospheric Pressure: Not applicable

2 Test Summary

2.1 AWS Band (FCC)

Test Case	FCC Part No.	Requirements	Result
AWS Band			
Transmitter Output Power	2.1046 & 27.50(d)	Peak EIRP not exceed 1640 W	Pass
Modulation Characteristics	2.1047	Digital modulation	Pass
Occupied Bandwidth	2.1049	(Not specified)	Pass
Band Edges Compliance	2.1051 & 27.53(h)	Below -13 dBm/1%*EBW, in 1 MHz range	Pass
Spurious Emission at Antenna Terminals	2.1051 & 27.53(h)	Below -13 dBm/1 kHz, 9 kHz to 150 kHz Below -13 dBm/10 kHz, 150 kHz to 30 MHz Below -13 dBm/1 MHz, 30 MHz to 10 th harmonics	Pass
Field Strength of Spurious Radiation	2.1053 & 27.53(h)	Below -13 dBm/1 MHz	Pass
Frequency Stability	2.1055 & 27.54	Stay within the authorized bands of operation	Pass

2.2 AWS Band (IC)

Test Case	IC Standard No.	Requirements	Result
AWS Band			
Transmitter Output Power	RSS-Gen, §4.8; RSS-139, §6.4	EIRP not exceed 1640 Watts (EBW ≤1MHz) EIRP not exceed 1640 Watts/MHz (EBW > 1MHz) Peak-to-average ratio not exceed 13 dB	Pass
Modulation Characteristics	RSS-139, §6.2	Digital modulation	Pass
Occupied Bandwidth	RSS-Gen, §4.6	(Not specified)	Pass
Band Edges Compliance	RSS-Gen, §4.9; RSS-139, §6.5	Below -13 dBm/1%*EBW, in 1 MHz range	Pass
Spurious Emission at Antenna Terminals	RSS-Gen, §4.9; RSS-139, §6.5	Below -13 dBm/1 kHz, 9 kHz to 150 kHz Below -13 dBm/10 kHz, 150 kHz to 30 MHz Below -13 dBm/1 MHz, 30 MHz to 5 th harmonics	Pass
Field Strength of Spurious Radiation	RSS-Gen, §4.9; RSS-139, §6.5	Below -13 dBm/1 MHz	Pass
Frequency Stability	RSS-Gen, §4.7; RSS-139, §6.3	Stay within the authorized frequency block	Pass
Receiver Spurious Emissions, Conducted	RSS-Gen, §4.10; RSS-Gen, §6; RSS-139, §6.6	Below -57 dBm/120 kHz (CISPR-QP), 30MHz to 1000 MHz Below -53 dBm/1 MHz (AV), 1 GHz to 3 th harmonics	Pass

3 Description of the Equipment under Test (EUT)

3.1 General Description

As shown in Figure 1 , the BTS3202E is an integrated base station with the following main units: transmission interface unit, main processing unit, baseband processing unit, and RF unit.

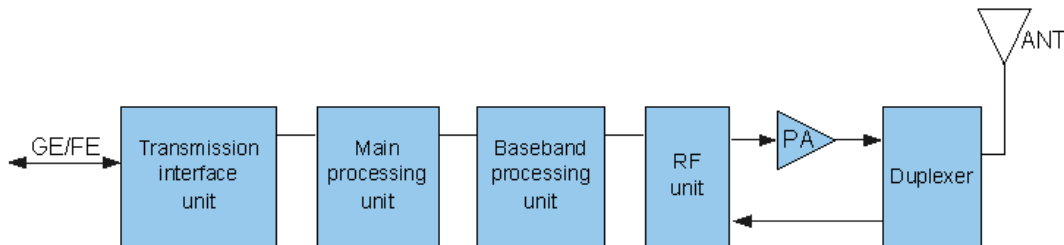


Figure 1 BTS3202E Structure

The function of each unit is as follows:

- Transmission interface unit
Provide ports for communication with the Evolved Packet Core (EPC) and the operation and maintenance (O&M) channels to LMT or M2000.
- Main processing unit
Manages the entire BTS3202E in a centralized manner in terms of O&M and signaling processing. Also, provides the system clock.
- Baseband processing unit
Schedules and processes the uplink and downlink user-plane data on the Iub interface.
- RF unit
Modulates, demodulates, processes, and combines and divides baseband signals and RF signals.
- Power Amplifier (PA)
Amplifies low-power RF signals.

3.2 EUT Identity

NOTE: Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

3.2.1 Board

Board		
Board Name	Hardware Version	Description
WD61LMBU	VER.D	Baseband Unit
WD5ALMX740	VER.D	Transceiver Board



Board		
Board Name	Hardware Version	Description
WD5AWMA710	VER.B	Power Amplify

3.2.2 Sub-Assembly

Sub-Assembly			
Sub-Assembly Name	Model	Manufacturer	Description
Power Supply	MPW250-A	VAPEL / GuoYao	Input voltage: ~ 90-290 V/45-65 Hz

3.3 Technical Description

Characteristics	Description
Radio System Type	Single Radio Access ☐ GSM Technology ☐ UMTS (Single-RAT): ☒ LTE ☐ CDMA ☐ WiMAX Multi-Standard Radio ☐ GSM & UMTS (MSR): ☐ GSM & LTE ☐ GSM & UMTS & LTE ☐ WiMAX & LTE ☐ CDMA & LTE
Supported Frequency Range	Transmission (TX): 2110 to 2155 MHz Receiving (RX): 1710 to 1755 MHz
TX and RX Antenna Ports	TX & RX port: 2 TX-only port: 0 RX-only port: 0
Multiple Carrier Supported	1
Maximum RF Bandwidth	45 MHz
TX Output Power	Max. 5 W (per antenna port) Max. 10 W (two antenna ports)
Supported Channel Bandwidth	GSM system: ☐ 200 kHz UMTS system: ☐ 5 MHz LTE system: ☐ 1.4 MHz, ☐ 3 MHz, ☒ 5 MHz, ☒ 10 MHz, ☒ 15 MHz, ☒ 20 MHz CDMA system: ☐ 1.23 MHz, ☐ 1.25 MHz WiMAX system: ☐ 5 MHz, ☐ 7 MHz, ☐ 10 MHz
Designation of Emissions (Note: the necessary bandwidth of which is the worst value from the measured occupied bandwidths for each type of channel bandwidth configuration.)	GSM system: --- UMTS system: --- LTE system: 4M49D9W, 8M94D9W, 13M5D9W, 17M9D9W CDMA system: --- WiMAX system: ---
Power Supply	Power Supply Type: ☒ External AC mains, ☐ External DC mains, ☐ AC/DC Adapter, ☐ Powered over Ethernet (PoE) Nominal Voltage, 120 VAC, 60 Hz Input to EUT: Voltage Range, 90-290 VAC, 45-65 Hz Input to EUT:



Characteristics	Description
Antenna Assembles	Antenna Type: ☐ External ☒ Integrated Smart Antenna: ☒ MIMO ☐ Non MIMO Antenna Gain: 8 dBi (per antenna port, max.) Remark: When the EUT is put into service, the practical maximum antenna gain should NOT exceed the value as described above.



4 General Test Conditions / Configurations

4.1 Test Modes

NOTE: The test mode(s) are selected according to relevant radio technology specifications.

Test Mode	Test Modes Description
LTE/TM1.1	LTE system, 3GPP TS 36.141 clause 6.1.1, E-TM 1.1
LTE/TM2	LTE system, 3GPP TS 36.141 clause 6.1.1, E-TM 2

4.2 EUT Configurations

4.2.1 General Configurations

Configuration	Description
Test Antenna Ports	Until otherwise specified, - All TX tests are ONLY performed at the main TX antenna port (e.g. TRXA, TXA or similar) of the EUT, and - All RX tests are ONLY performed at the main RX antenna port (e.g. TRXA, RXB or similar) of the EUT.
Multiple RF Sources	Other than the tested RF source of the EUT, other RF source(s) are disabled or shutdown during measurements.

4.2.2 Customized Configurations

NOTE: For the carrier configurations, the description of "n*TxxxM(yyyW)@zzz" denotes the n * multiple carriers of the radio system type T (G - GSM system, U - UMTS system, L - LTE system, C - CDMA system, W - WiMAX system), for which the channel bandwidth of each carrier is xxx MHz (applicable for T supporting various channel bandwidths) and the power level of each carrier is yyy Watts, at the antenna port zzz (if specified). While the combinations of several "n*TxxxM(yyyW)@zzz"s denotes the carrier configurations of the MSR system.

EUT Conf.	RF Ch.	Carrier Conf. Description	TX Freq. [MHz]	RX Freq. [MHz]	Ch. BW [MHz]	Power Level [dBm]	Test Mode
TX_5M_B_TM1.1	B	1*L(5W)@TRXA 1*L(5W)@TRXB	2112.5	---	5	37	TM1.1
TX_5M_M_TM1.1	M	1*L(5W)@TRXA 1*L(5W)@TRXB	2132.5	---	5	37	TM1.1
TX_5M_T_TM1.1	T	1*L(5W)@TRXA 1*L(5W)@TRXB	2152.5	---	5	37	TM1.1
TX_10M_B_TM1.1	B	1*L(5W)@TRXA 1*L(5W)@TRXB	2115	---	10	37	TM1.1
TX_10M_M_TM1.1	M	1*L(5W)@TRXA 1*L(5W)@TRXB	2132.5	---	10	37	TM1.1
TX_10M_T_TM1.1	T	1*L(5W)@TRXA 1*L(5W)@TRXB	2150	---	10	37	TM1.1
TX_15M_B_TM1.1	B	1*L(5W)@TRXA 1*L(5W)@TRXB	2117.5	---	15	37	TM1.1
TX_15M_M_TM1.1	M	1*L(5W)@TRXA 1*L(5W)@TRXB	2132.5	---	15	37	TM1.1
TX_15M_T_TM1.1	T	1*L(5W)@TRXA	2147.5	---	15	37	TM1.1



EUT Conf.	RF Ch.	Carrier Conf. Description	TX Freq. [MHz]	RX Freq. [MHz]	Ch. BW [MHz]	Power Level [dBm]	Test Mode
		1*L(5W)@TRXB					
TX_20M_B_TM1.1	B	1*L(5W)@TRXA 1*L(5W)@TRXB	2120	---	20	37	TM1.1
TX_20M_M_TM1.1	M	1*L(5W)@TRXA 1*L(5W)@TRXB	2132.5	---	20	37	TM1.1
TX_20M_T_TM1.1	T	1*L(5W)@TRXA 1*L(5W)@TRXB	2145	---	20	37	TM1.1
TX_20M_M_TM2	M	1*L(5W)@TRXA 1*L(5W)@TRXB	2132.5	---	20	37	TM2
RX_5M_M	M	1*L(5W)@TRXA 1*L(5W)@TRXB	---	2132.5	5	37	---

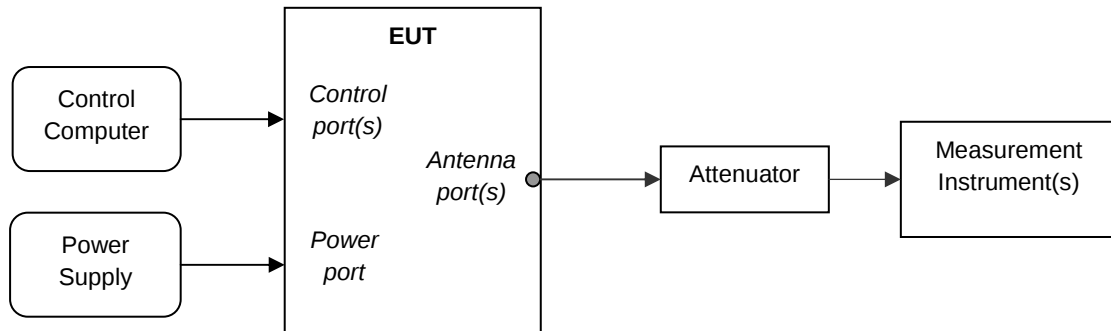


4.3 Test Environments

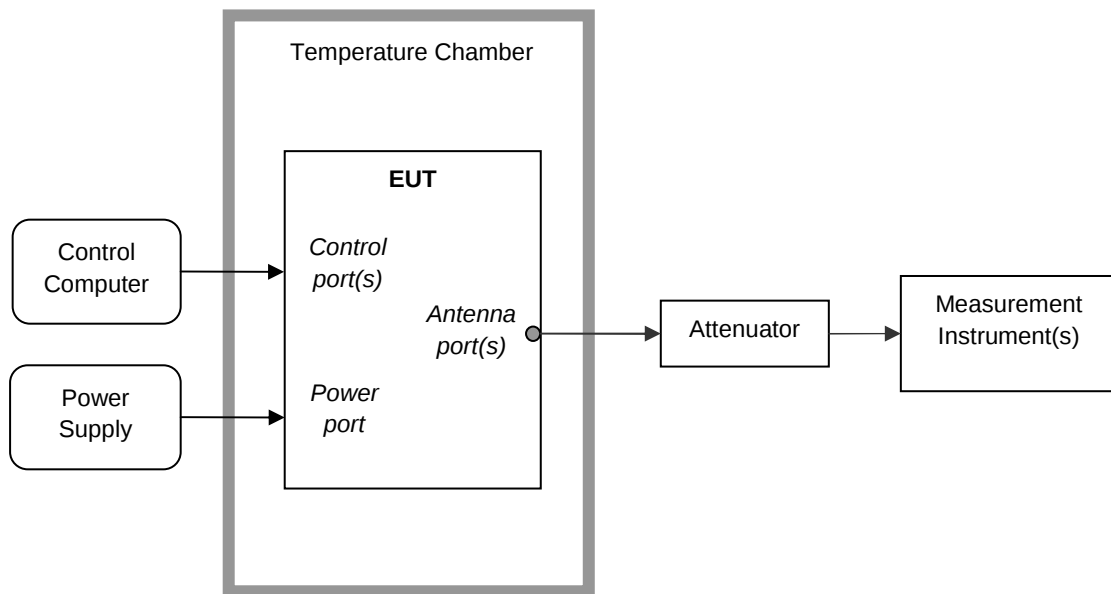
Environment Parameter	Selected Values During Tests		
	Temperature	Voltage	Relative Humidity
Ambient Climate	Ambient	---	Ambient
Rated Voltage	---	120 VAC, 60 Hz	---

4.4 Test Setups

4.4.1 Test Setup 1



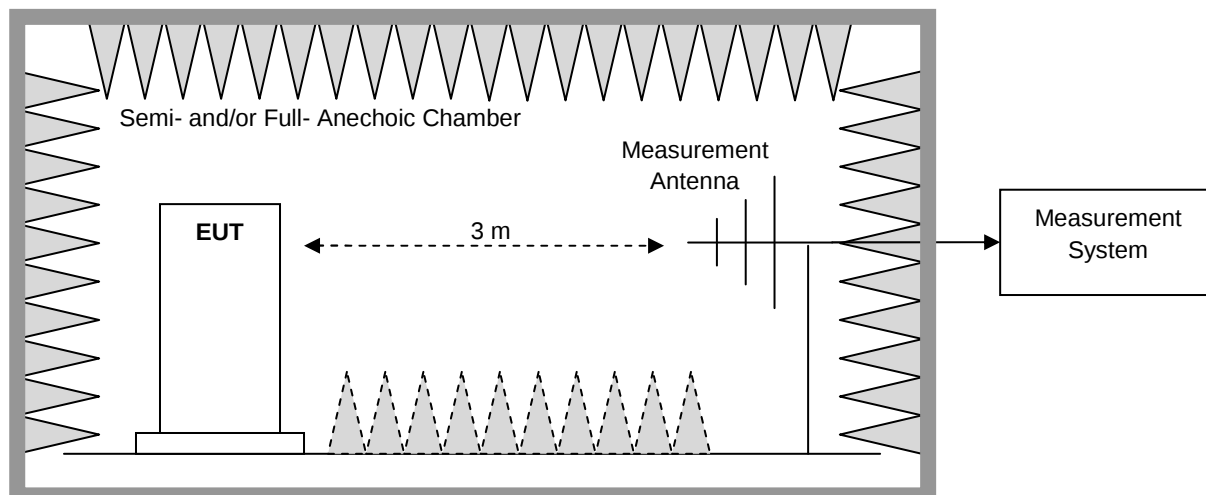
4.4.2 Test Setup 2



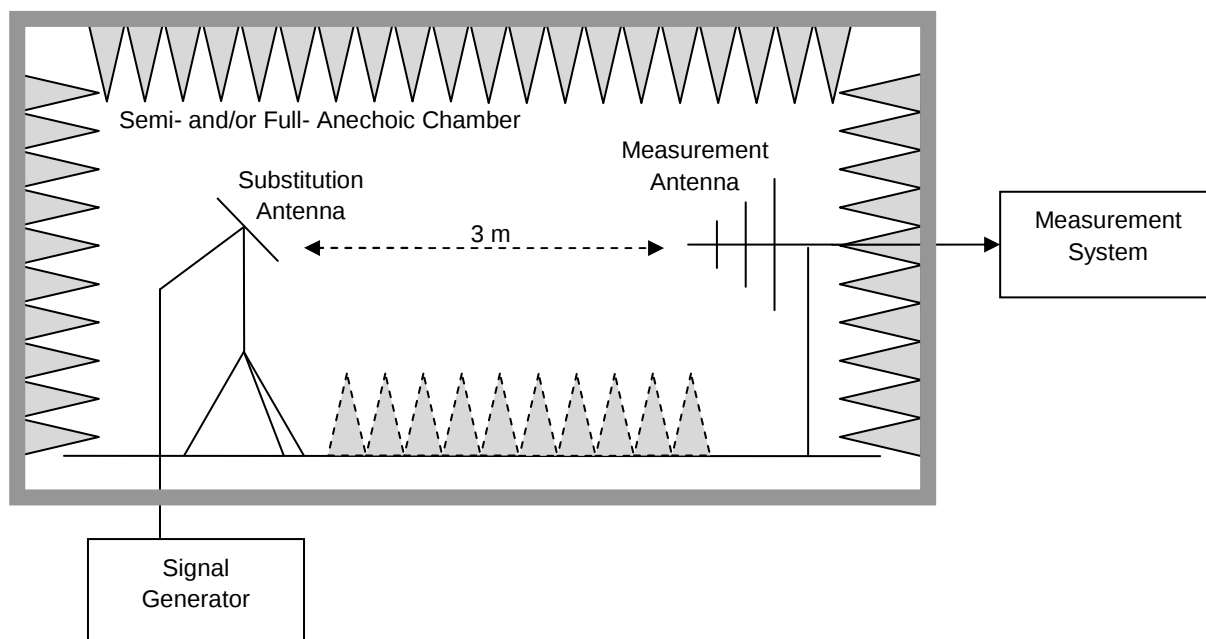
4.4.3 Test Setup 3

NOTE: Effective radiated power (ERP) refers to the radiation power output of the EUT, assuming all emissions are radiated from half-wave dipole antennas.

4.4.3.1 Step 1: Pre-test



4.4.3.2 Step 2: Substitution method to verify the maximum ERP



4.5 Test Conditions

Test Case		Test Conditions	
Transmitter Output Power	Average Power, Total	Test Environment	Ambient Climate & Rated Voltage
		Test Setup	Test Seup 1
		EUT Configuration	EUT Conf. TX_5M_B_TM1.1, EUT Conf. TX_5M_M_TM1.1, EUT Conf. TX_5M_T_TM1.1, EUT Conf. TX_10M_B_TM1.1, EUT Conf. TX_10M_M_TM1.1, EUT Conf. TX_10M_T_TM1.1, EUT Conf. TX_15M_B_TM1.1, EUT Conf. TX_15M_M_TM1.1, EUT Conf. TX_15M_T_TM1.1, EUT Conf. TX_20M_B_TM1.1, EUT Conf. TX_20M_M_TM1.1, EUT Conf. TX_20M_T_TM1.1
	Average Power, Spectral Density	Test Environment	Ambient Climate & Rated Voltage
		Test Setup	Test Seup 1
		EUT Configuration	EUT Conf. TX_5M_B_TM1.1, EUT Conf. TX_5M_M_TM1.1, EUT Conf. TX_5M_T_TM1.1, EUT Conf. TX_10M_B_TM1.1, EUT Conf. TX_10M_M_TM1.1, EUT Conf. TX_10M_T_TM1.1, EUT Conf. TX_15M_B_TM1.1, EUT Conf. TX_15M_M_TM1.1, EUT Conf. TX_15M_T_TM1.1, EUT Conf. TX_20M_B_TM1.1, EUT Conf. TX_20M_M_TM1.1, EUT Conf. TX_20M_T_TM1.1
	Peak-to-Average Ratio	Test Environment	Ambient Climate & Rated Voltage
		Test Setup	Test Seup 1
		EUT Configuration	EUT Conf. TX_5M_B_TM1.1, EUT Conf. TX_5M_M_TM1.1, EUT Conf. TX_5M_T_TM1.1, EUT Conf. TX_10M_B_TM1.1, EUT Conf. TX_10M_M_TM1.1, EUT Conf. TX_10M_T_TM1.1, EUT Conf. TX_15M_B_TM1.1, EUT Conf. TX_15M_M_TM1.1, EUT Conf. TX_15M_T_TM1.1, EUT Conf. TX_20M_B_TM1.1,

Test Case		Test Conditions		
			EUT Conf. TX_20M_M_TM1.1, EUT Conf. TX_20M_T_TM1.1	
Modulation Characteristics		Test Environment	Ambient Climate & Rated Voltage	
		Test Setup	Test Seup 1	
		EUT Configuration	EUT Conf. TX_20M_M_TM2 NOTE: An arbitrary EUT configuration was selected to demonstrate compliance.	
Bandwidth	99% Occupied Bandwidth	Test Environment	Ambient Climate & Rated Voltage	
		Test Setup	Test Seup 1	
		EUT Configuration	EUT Conf. TX_5M_B_TM1.1, EUT Conf. TX_5M_M_TM1.1, EUT Conf. TX_5M_T_TM1.1, EUT Conf. TX_10M_B_TM1.1, EUT Conf. TX_10M_M_TM1.1, EUT Conf. TX_10M_T_TM1.1, EUT Conf. TX_15M_B_TM1.1, EUT Conf. TX_15M_M_TM1.1, EUT Conf. TX_15M_T_TM1.1, EUT Conf. TX_20M_B_TM1.1, EUT Conf. TX_20M_M_TM1.1, EUT Conf. TX_20M_T_TM1.1	
	Emission Bandwidth (if required)	Test Environment	Ambient Climate & Rated Voltage	
		Test Setup	Test Seup 1	
		EUT Configuration	Not applicable	
	Band Edges Compliance		Test Environment	Ambient Climate & Rated Voltage
			Test Setup	Test Seup 1
			EUT Configuration	EUT Conf. TX_5M_B_TM1.1, EUT Conf. TX_5M_T_TM1.1, EUT Conf. TX_10M_B_TM1.1, EUT Conf. TX_10M_T_TM1.1, EUT Conf. TX_15M_B_TM1.1, EUT Conf. TX_15M_T_TM1.1, EUT Conf. TX_20M_B_TM1.1, EUT Conf. TX_20M_T_TM1.1
Spurious Emission at Antenna Terminals		Test Environment	Ambient Climate & Rated Voltage	
		Test Setup	Test Seup 1	
		EUT Configuration	EUT Conf. TX_5M_B_TM1.1, EUT Conf. TX_5M_M_TM1.1, EUT Conf. TX_5M_T_TM1.1, EUT Conf. TX_10M_B_TM1.1, EUT Conf. TX_10M_M_TM1.1,	

Test Case	Test Conditions	
		EUT Conf. TX_10M_T_TM1.1, EUT Conf. TX_15M_B_TM1.1, EUT Conf. TX_15M_M_TM1.1, EUT Conf. TX_15M_T_TM1.1, EUT Conf. TX_20M_B_TM1.1, EUT Conf. TX_20M_M_TM1.1, EUT Conf. TX_20M_T_TM1.1
Field Strength of Spurious Radiation	Test Environment	Ambient Climate & Rated Voltage
	Test Setup	Test Seup 3
	EUT Configuration	EUT Conf. TX_5M_M_TM1.1
Frequency Stability	Test Environment	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage; (2) 85%, 100% and 115% of Rated Voltage at Ambient Climate.
	Test Setup	Test Seup 2
	EUT Configuration	EUT Conf. TX_5M_M_TM1.1 NOTE: A representative EUT configuration was selected since the un-modulation carrier configuration was required by the standards/rules.
Receiver Spurious Emissions, Conducted (Only for IC requirement)	Test Environment	Ambient Climate & Rated Voltage
	Test Setup	Test Seup 1
	EUT Configuration	EUT Conf. RX_5M_M



5 Test Results

No.	Test Item	Test Result
1	Transmitter Output Power	Appendix A
2	Modulation Characteristics	Appendix B
3	Occupied Bandwidth	Appendix C
4	Band Edges Compliance	Appendix D
5	Spurious Emission at Antenna Terminals	Appendix E
6	Field Strength of Spurious Radiation	Appendix F
7	Frequency Stability	Appendix G
8	Receiver Spurious Emissions, Conducted (Only for IC requirement)	Appendix H
9	Photos of Test Setups	Appendix I

6 Main Test Instruments

Equipment Name	Manufacturer	Model	Serial Number	Cal. Due
Test Setup 1 & 2				
Spectrum Analyzer	R&S	FSQ40	100025	2012-10-19
Spectrum Analyzer	Agilent	E4440A	MY49420179	2013-05-14
Temperature Chamber	Chongqingyinhe	EBS-SDJ61F	201000062	2013-04-26
Power Supply	Chroma	6530	653000008184	2012-06-09
Test Setup 3				
3m Semi Anechoic Chamber	S+M	---	---	---
EMI Test receiver	R&S	ESU40	100144	2013-03-05
Bilog antenna	SCHAFFNER	CBL 6112B	2747	2013-01-12
Horn Antenna	R&S	HF906	359287/006	2012-05-19
Horn Antenna	ETS	3160-9	053215-21874	2012-11-30

7 Measurement Uncertainty

For a 95% confidence level ($k = 2$), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item		Extended Uncertainty
Transmitter Output Power	Power [dBm]	U = 0.39 dB
Bandwidth	Magnitude [%]	U = 0.2%
Band Edge Compliance	Disturbance Power [dBm]	U = 2.0 dB
Spurious Emissions, Conducted	Disturbance Power [dBm]	U = 2.0 dB
Field Strength of Spurious Radiation	ERP [dBm]	For 3 m Chamber: U = 4.6 dB (30 MHz to 1GHz) U = 3.0 dB (above 1 GHz) For 10 m Chamber: U = 4.6 dB (30 MHz to 1GHz) U = 3.0 dB (above 1 GHz)
Frequency Stability	Frequency Accuracy [ppm]	U = 0.21 ppm

END



Appendix A: Transmitter Output Power

1 Result Table

1.1 Average Power (Total)

NOTE 1: If applicable, the EIRP [W] = $10^{((\text{Average Power [dBm]} + \text{Antenna Gain [dBi]}) / 10 - 3)}$, and the ERP [W] = EIRP [W] / 1.64. For MIMO, EIRP [W] = EIRP(1) [W] + ... + EIRP(N) [W], where N is the antenna ports number used by MIMO.

EUT Conf.	Average Power of Port A [dBm]	Average Power of Port B [dBm]	Antenna Gain [dBi]	EIRP [W]	ERP [W]	Verdict
TX_5M_B_TM1.1	36.91	36.76	8	60.90	---	Pass
TX_5M_M_TM1.1	37.07	36.85	8	62.69	---	Pass
TX_5M_T_TM1.1	36.79	36.73	8	59.85	---	Pass
TX_10M_B_TM1.1	37.13	36.77	8	62.58	---	Pass
TX_10M_M_TM1.1	37.14	36.86	8	63.28	---	Pass
TX_10M_T_TM1.1	36.82	36.74	8	60.12	---	Pass
TX_15M_B_TM1.1	37.24	36.88	8	64.18	---	Pass
TX_15M_M_TM1.1	37.25	36.89	8	64.33	---	Pass
TX_15M_T_TM1.1	37.01	36.81	8	61.96	---	Pass
TX_20M_B_TM1.1	37.20	36.77	8	63.10	---	Pass
TX_20M_M_TM1.1	37.18	36.87	8	63.65	---	Pass
TX_20M_T_TM1.1	37.10	36.83	8	62.77	---	Pass

1.2 Average Power (Spectral Density)

NOTE 1: If applicable, the EIRP [W/MHz] = $10^{((\text{Average Power [dBm]} + \text{Antenna Gain [dBi]}) / 10 - 3)}$, and the ERP [W/MHz] = EIRP [W/MHz] / 1.64. For MIMO, EIRP [W/MHz] = EIRP(1) [W/MHz] + ... + EIRP(N) [W/MHz], where N is the antenna ports number used by MIMO.

EUT Conf.	Average Power Spectral Density of Port A [dBm/MHz]	Average Power Spectral Density of Port B [dBm/MHz]	Antenna Gain [dBi]	EIRP [W/MHz]	ERP [W/MHz]	Verdict
TX_5M_B_TM1.1	31.20	31.17	8	16.58	---	Pass
TX_5M_M_TM1.1	31.33	31.11	8	16.72	---	Pass
TX_5M_T_TM1.1	31.03	30.98	8	15.91	---	Pass
TX_10M_B_TM1.1	28.27	28.05	8	8.26	---	Pass
TX_10M_M_TM1.1	28.40	28.13	8	8.47	---	Pass
TX_10M_T_TM1.1	28.07	28.03	8	8.05	---	Pass
TX_15M_B_TM1.1	26.71	26.52	8	5.79	---	Pass
TX_15M_M_TM1.1	26.63	26.50	8	5.72	---	Pass
TX_15M_T_TM1.1	26.44	26.32	8	5.48	---	Pass
TX_20M_B_TM1.1	25.41	25.00	8	4.19	---	Pass
TX_20M_M_TM1.1	25.35	25.16	8	4.23	---	Pass
TX_20M_T_TM1.1	25.25	25.06	8	4.14	---	Pass

1.3 Peak-to-Average Ratio

Port A:

EUT Conf.	Peak-to-Average Ratio [dB]	Verdict
EUT Conf. TX_5M_B_TM1.1	7.21	Pass
EUT Conf. TX_5M_M_TM1.1	7.11	Pass
EUT Conf. TX_5M_T_TM1.1	7.16	Pass
EUT Conf. TX_10M_B_TM1.1	7.30	Pass
EUT Conf. TX_10M_M_TM1.1	7.27	Pass
EUT Conf. TX_10M_T_TM1.1	7.32	Pass
EUT Conf. TX_15M_B_TM1.1	7.29	Pass
EUT Conf. TX_15M_M_TM1.1	7.14	Pass
EUT Conf. TX_15M_T_TM1.1	7.26	Pass
EUT Conf. TX_20M_B_TM1.1	7.15	Pass
EUT Conf. TX_20M_M_TM1.1	7.16	Pass
EUT Conf. TX_20M_T_TM1.1	7.22	Pass

Port B:

EUT Conf.	Peak-to-Average Ratio [dB]	Verdict
EUT Conf. TX_5M_B_TM1.1	7.72	Pass
EUT Conf. TX_5M_M_TM1.1	7.64	Pass
EUT Conf. TX_5M_T_TM1.1	7.77	Pass
EUT Conf. TX_10M_B_TM1.1	7.58	Pass
EUT Conf. TX_10M_M_TM1.1	7.47	Pass
EUT Conf. TX_10M_T_TM1.1	7.54	Pass
EUT Conf. TX_15M_B_TM1.1	7.76	Pass
EUT Conf. TX_15M_M_TM1.1	7.66	Pass
EUT Conf. TX_15M_T_TM1.1	7.74	Pass
EUT Conf. TX_20M_B_TM1.1	7.57	Pass
EUT Conf. TX_20M_M_TM1.1	7.65	Pass
EUT Conf. TX_20M_T_TM1.1	7.63	Pass

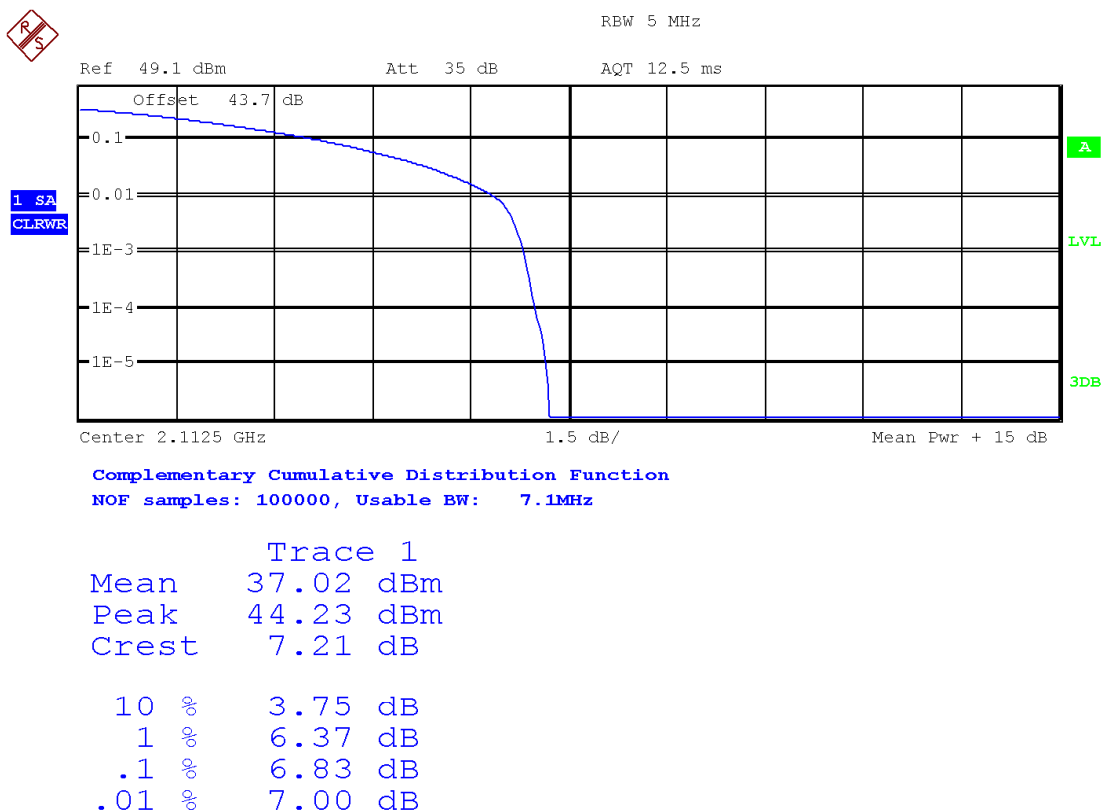
2 Test Plot

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

2.1 Peak-to-Average Ratio

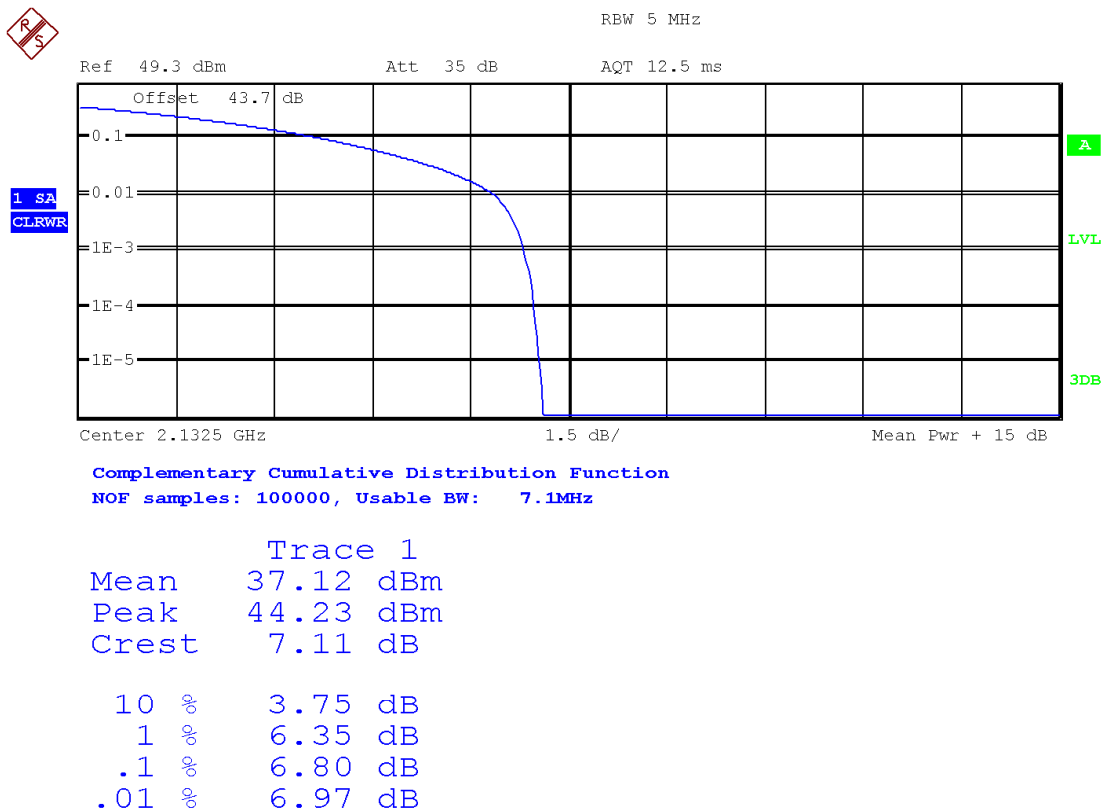
2.1.1 Port A

2.1.1.1 EUT Conf. TX_5M_B_TM1.1



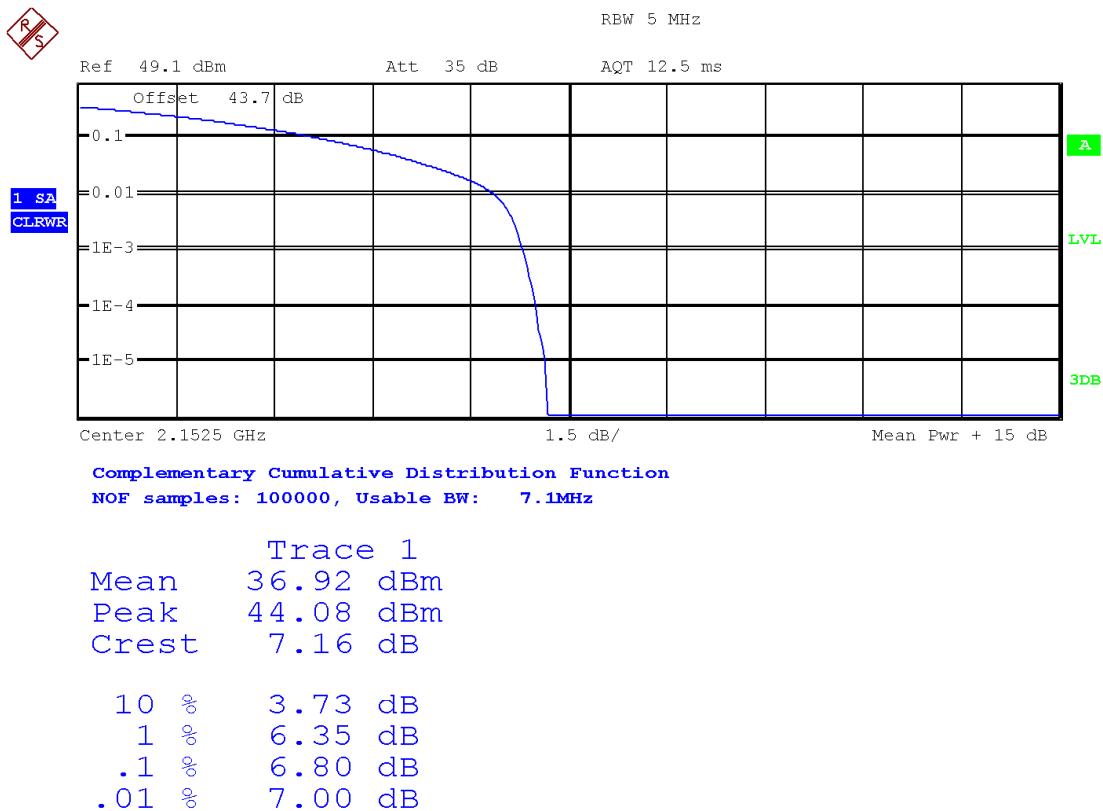
Date: 16.MAY.2012 20:46:29

2.1.1.2 EUT Conf. TX_5M_M_TM1.1



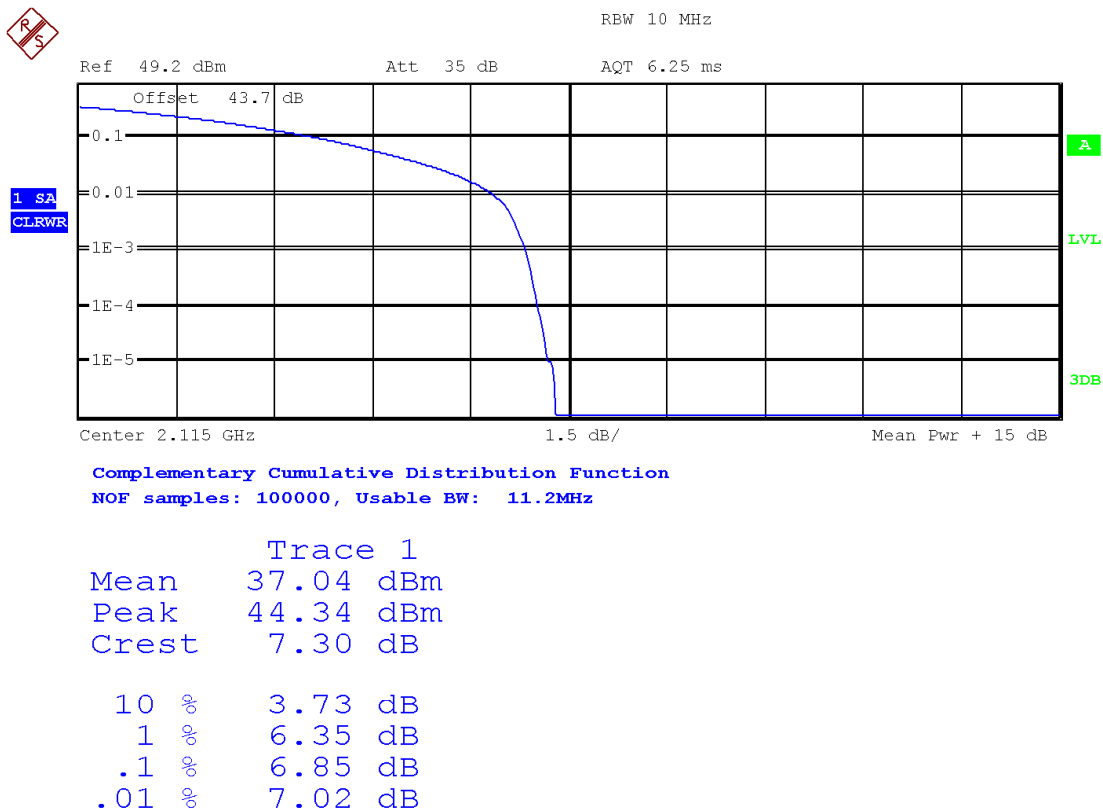
Date: 16.MAY.2012 20:55:30

2.1.1.3 EUT Conf. TX_5M_T_TM1.1



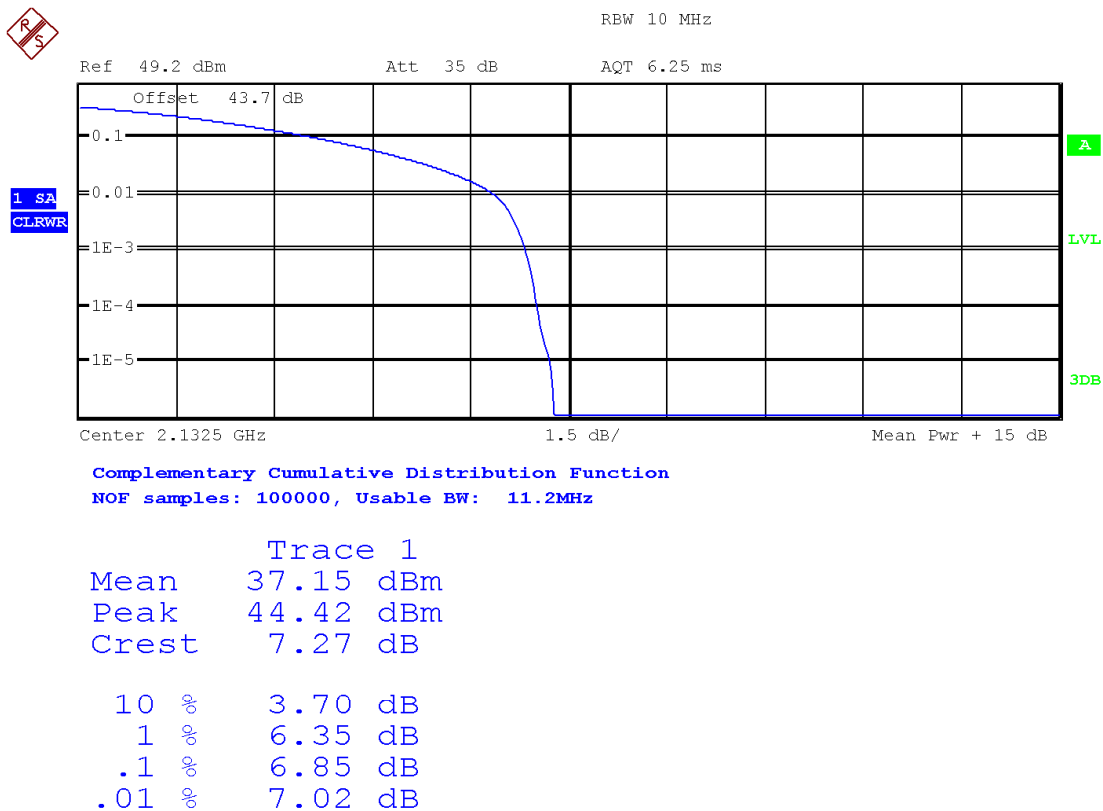
Date: 16.MAY.2012 21:01:33

2.1.1.4 EUT Conf. TX_10M_B_TM1.1



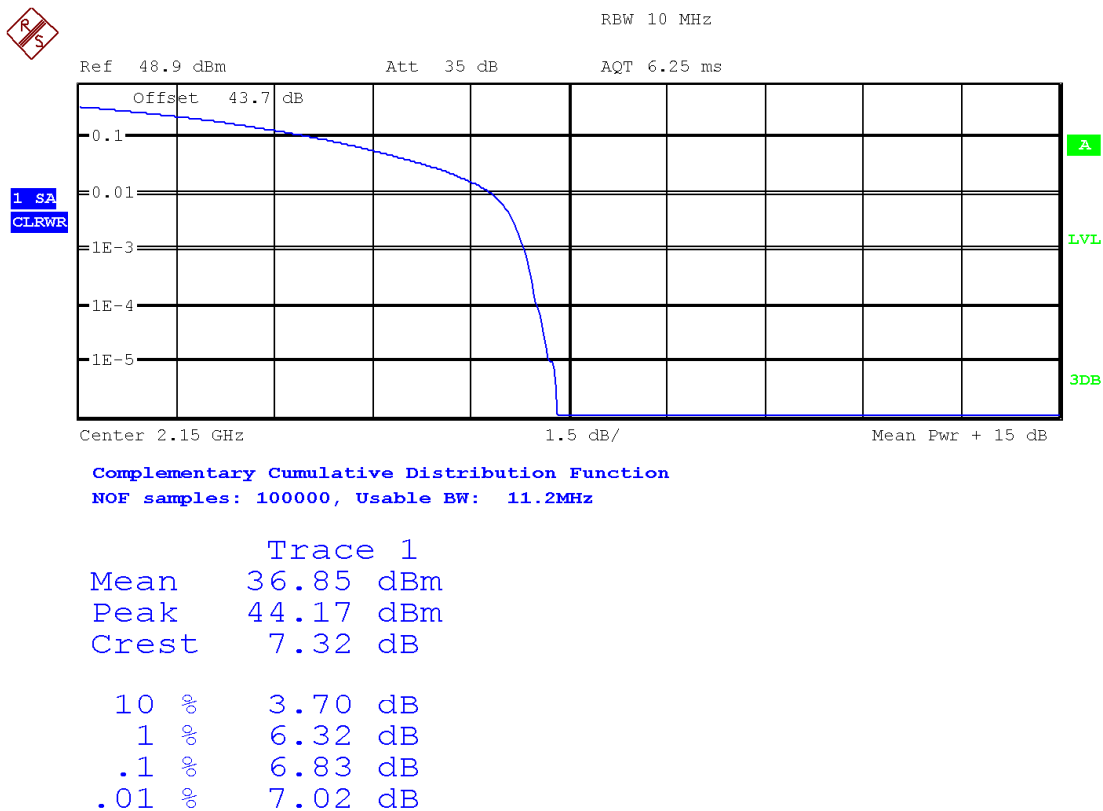
Date: 16.MAY.2012 21:10:03

2.1.1.5 EUT Conf. TX_10M_M_TM1.1



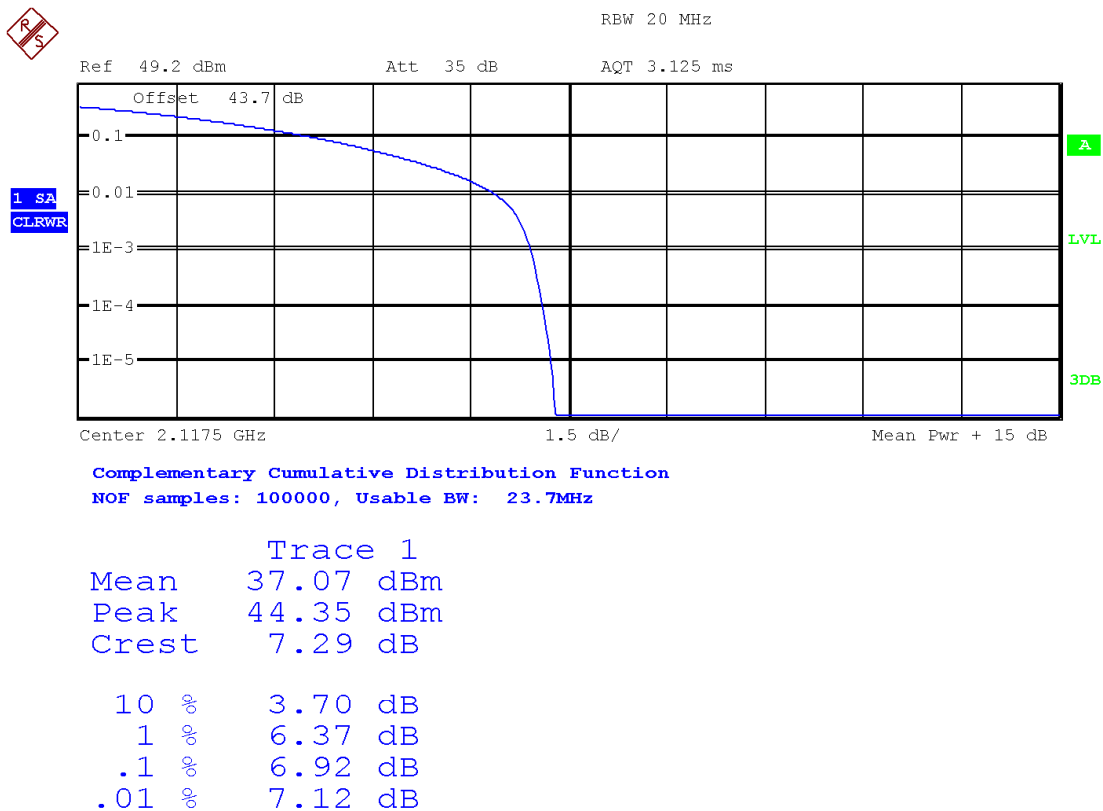
Date: 16.MAY.2012 21:16:33

2.1.1.6 EUT Conf. TX_10M_T_TM1.1



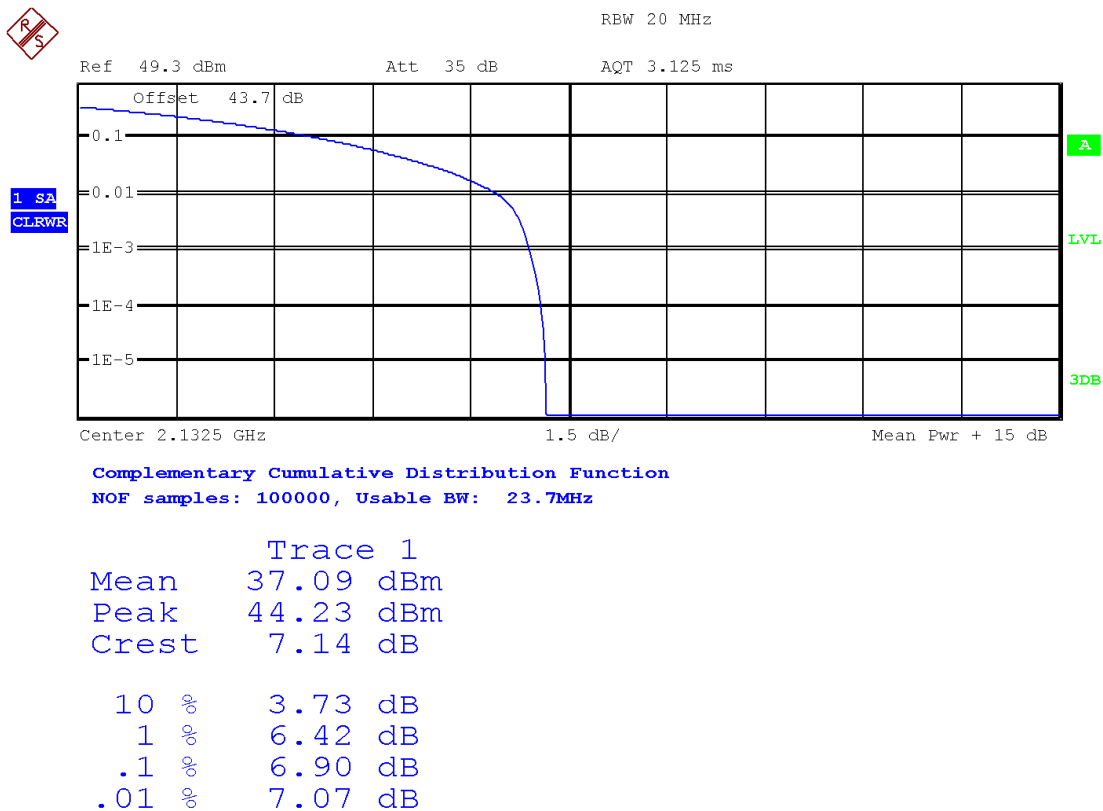
Date: 16.MAY.2012 21:18:27

2.1.1.7 EUT Conf. TX_15M_B_TM1.1



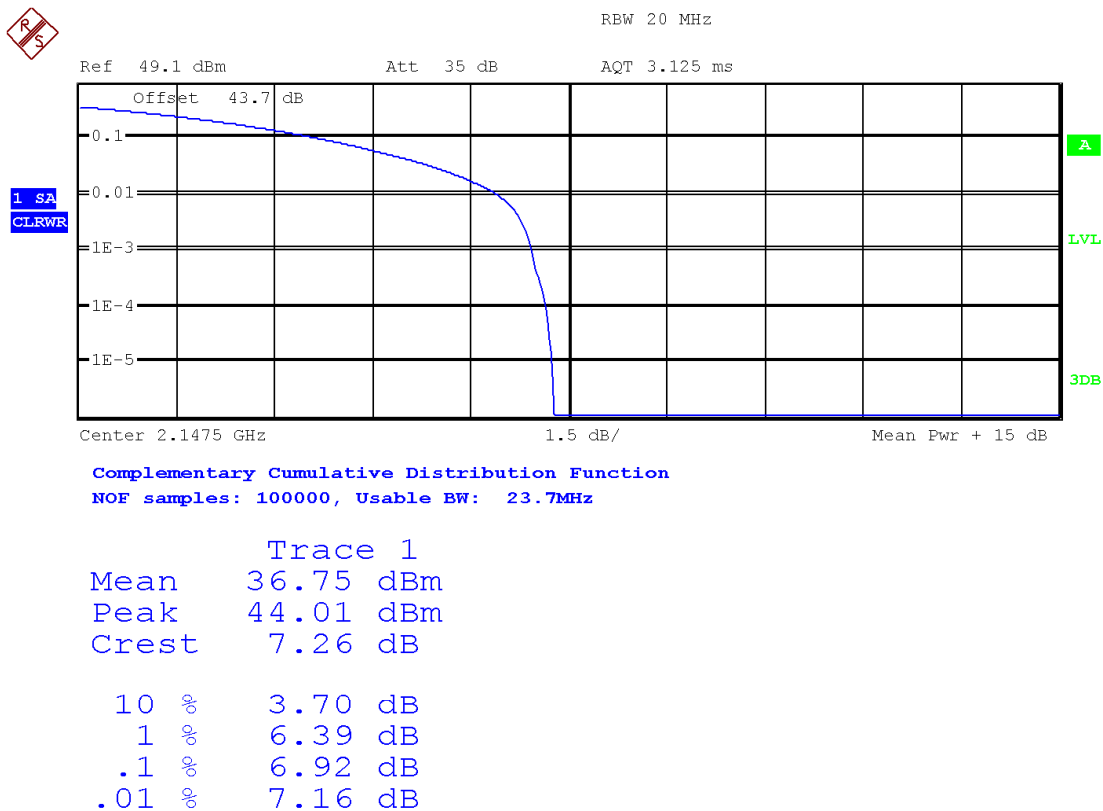
Date: 16.MAY.2012 21:32:12

2.1.1.8 EUT Conf. TX_15M_M_TM1.1



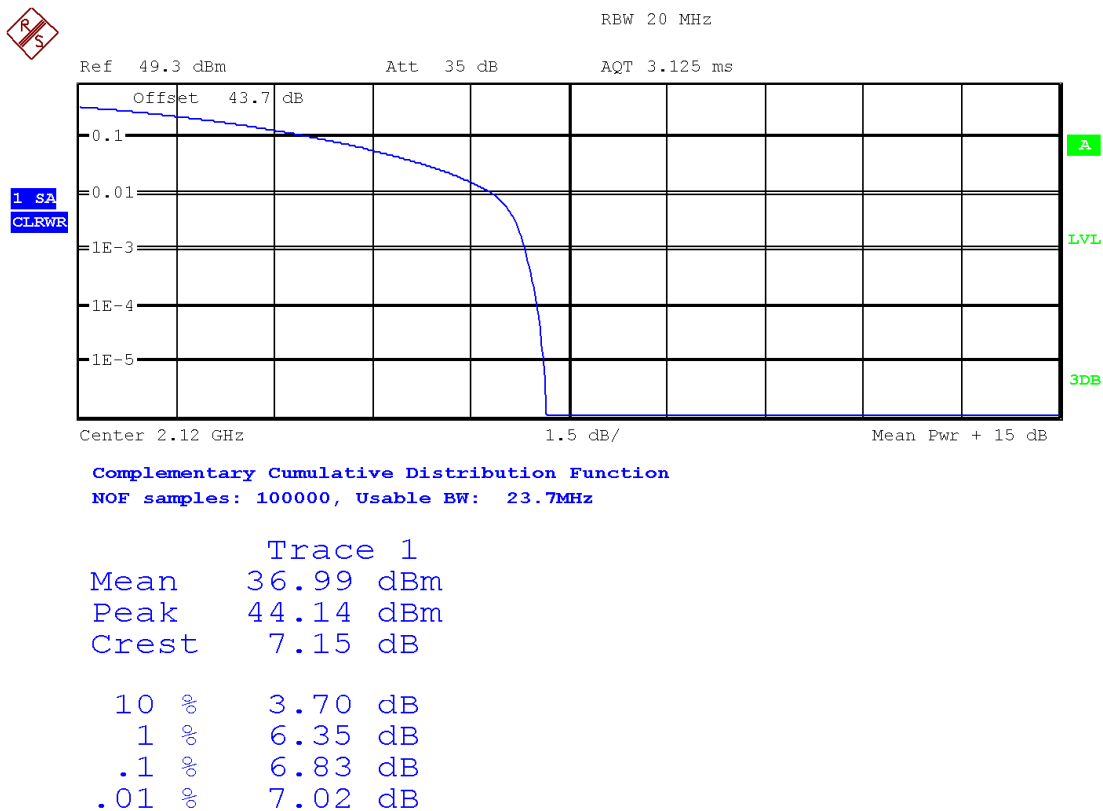
Date: 16.MAY.2012 21:39:30

2.1.1.9 EUT Conf. TX_15M_T_TM1.1



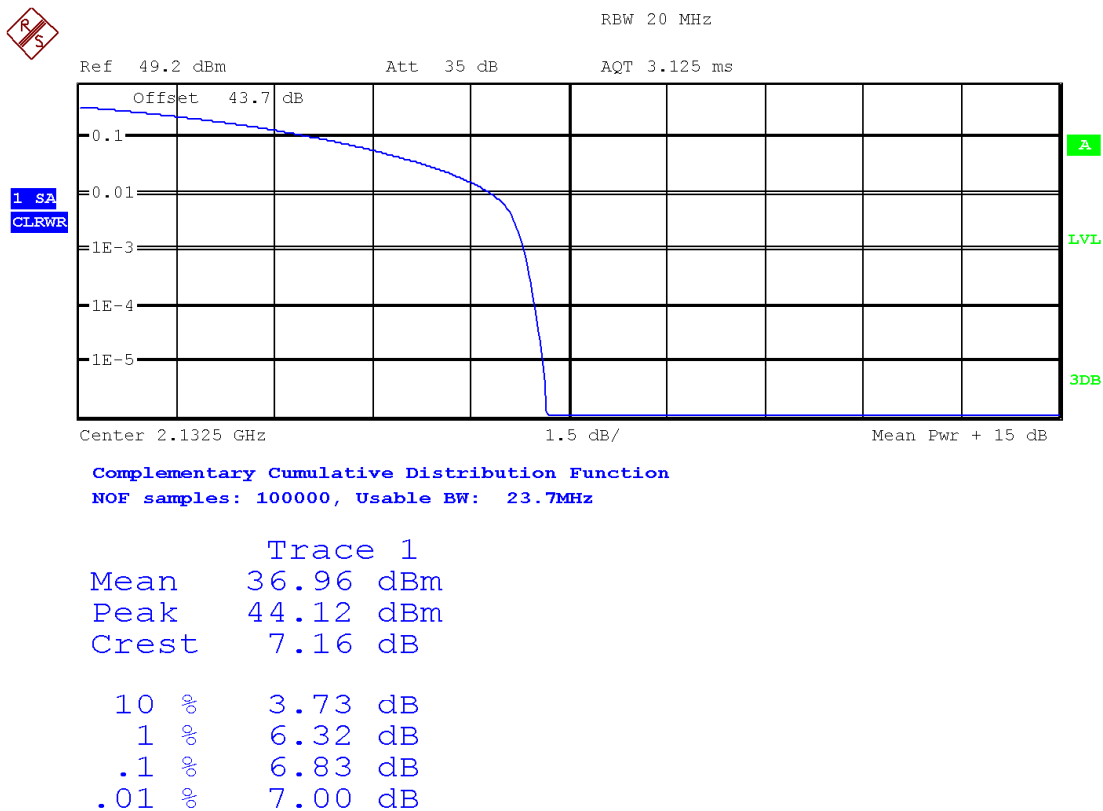
Date: 16.MAY.2012 21:41:19

2.1.1.10 EUT Conf. TX_20M_B_TM1.1



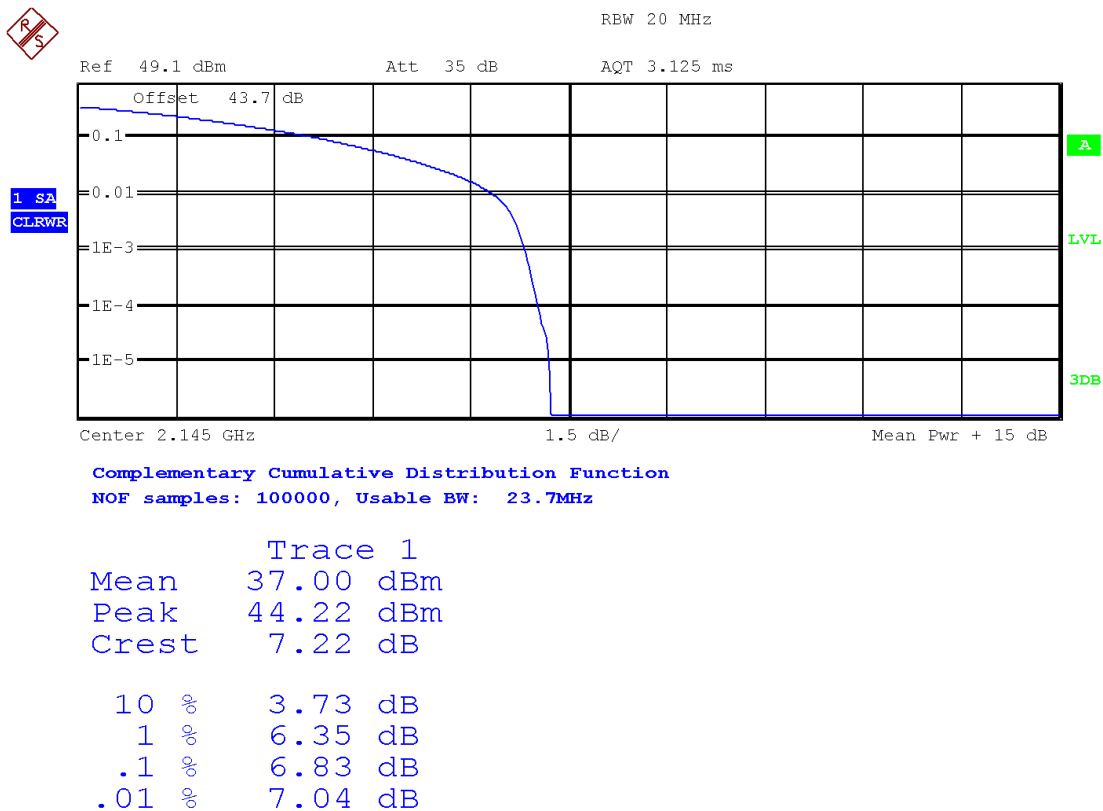
Date: 16.MAY.2012 21:52:43

2.1.1.11 EUT Conf. TX_20M_M_TM1.1



Date: 16.MAY.2012 21:54:47

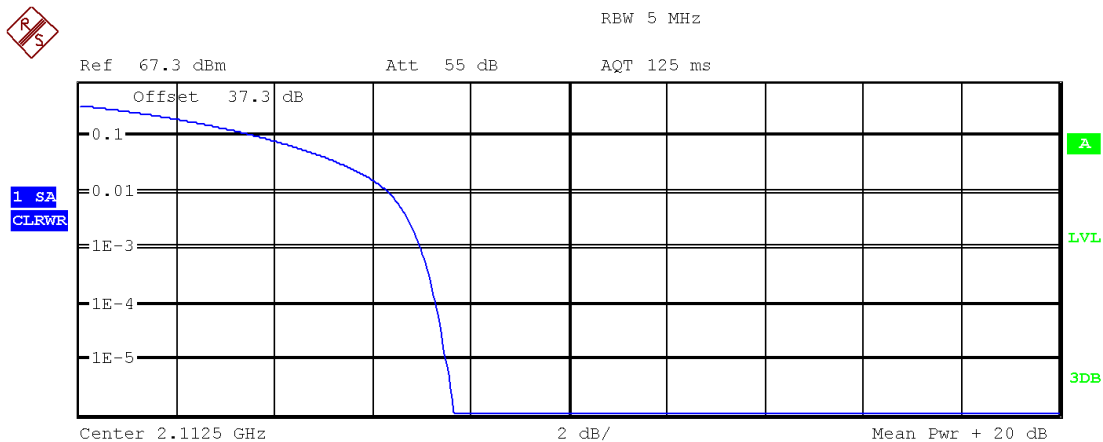
2.1.1.12 EUT Conf. TX_20M_T_TM1.1



Date: 16.MAY.2012 22:02:57

2.1.2 Port B

2.1.2.1 EUT Conf. TX_5M_B_TM1.1



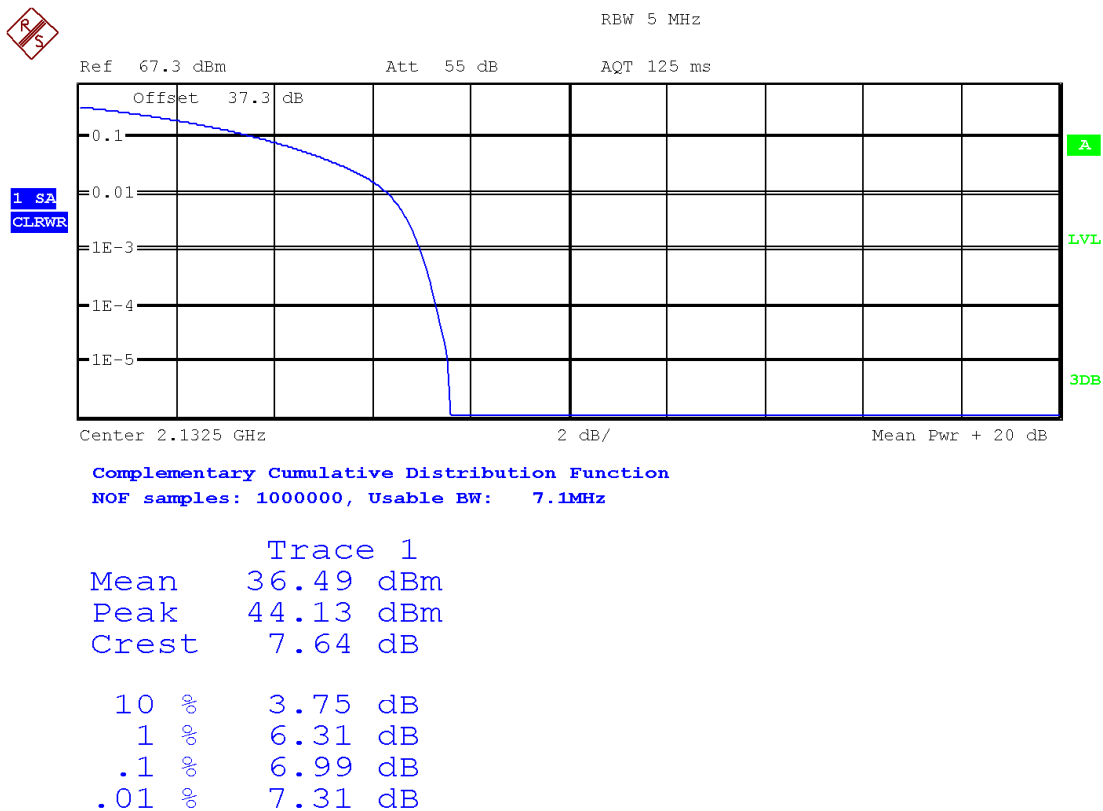
Complementary Cumulative Distribution Function
NOF samples: 1000000, Usable BW: 7.1MHz

Trace 1

Mean	36.55	dBm
Peak	44.27	dBm
Crest	7.72	dB
10 %	3.72	dB
1 %	6.35	dB
.1 %	6.99	dB
.01 %	7.31	dB

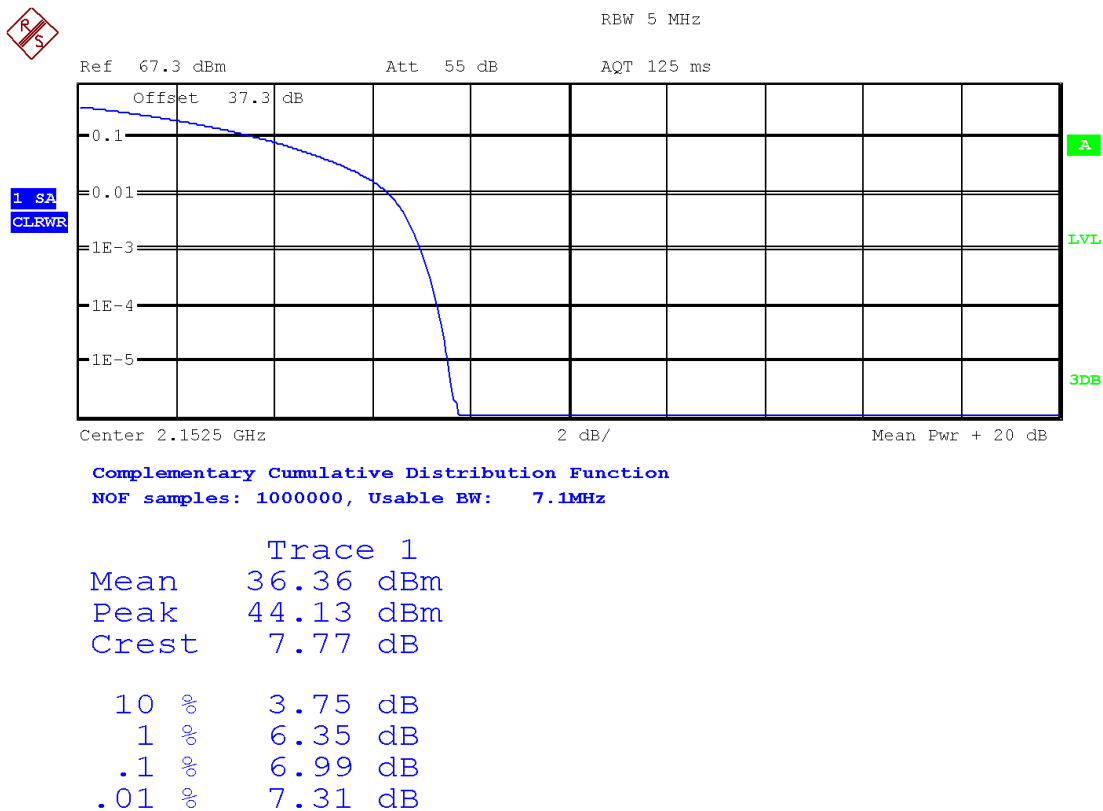
Date: 16.APR.2012 12:07:57

2.1.2.2 EUT Conf. TX_5M_M_TM1.1



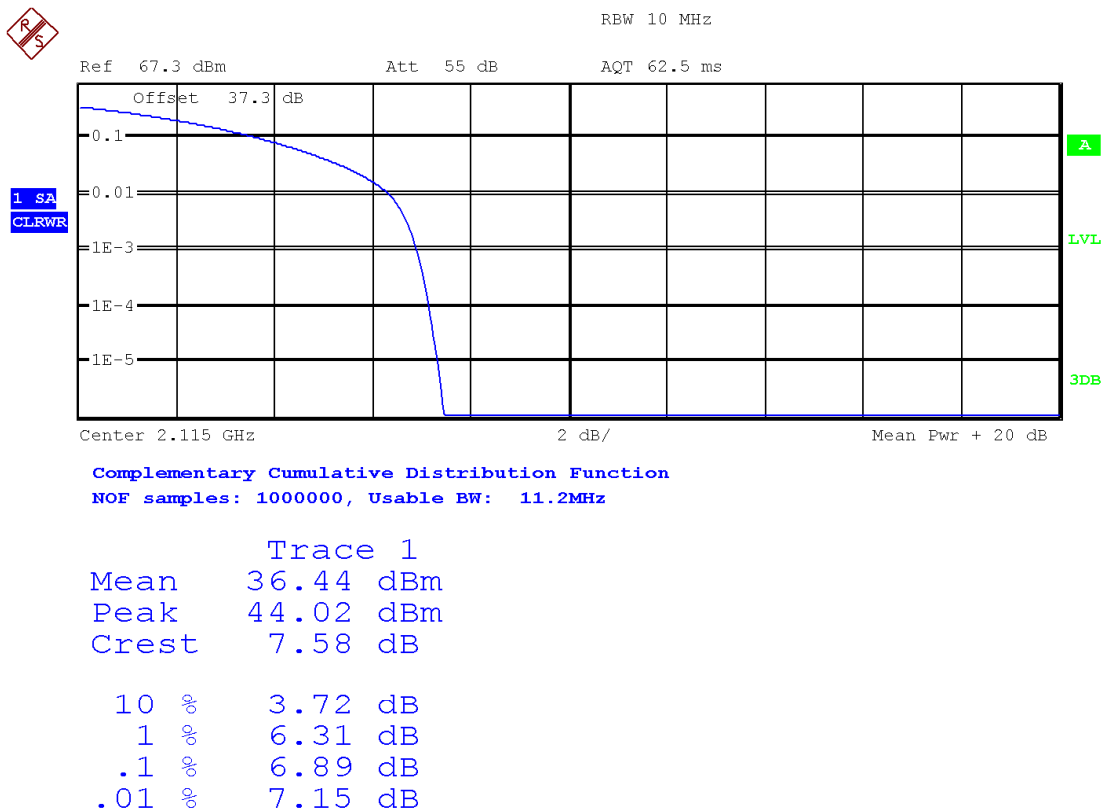
Date: 16.APR.2012 12:09:25

2.1.2.3 EUT Conf. TX_5M_T_TM1.1



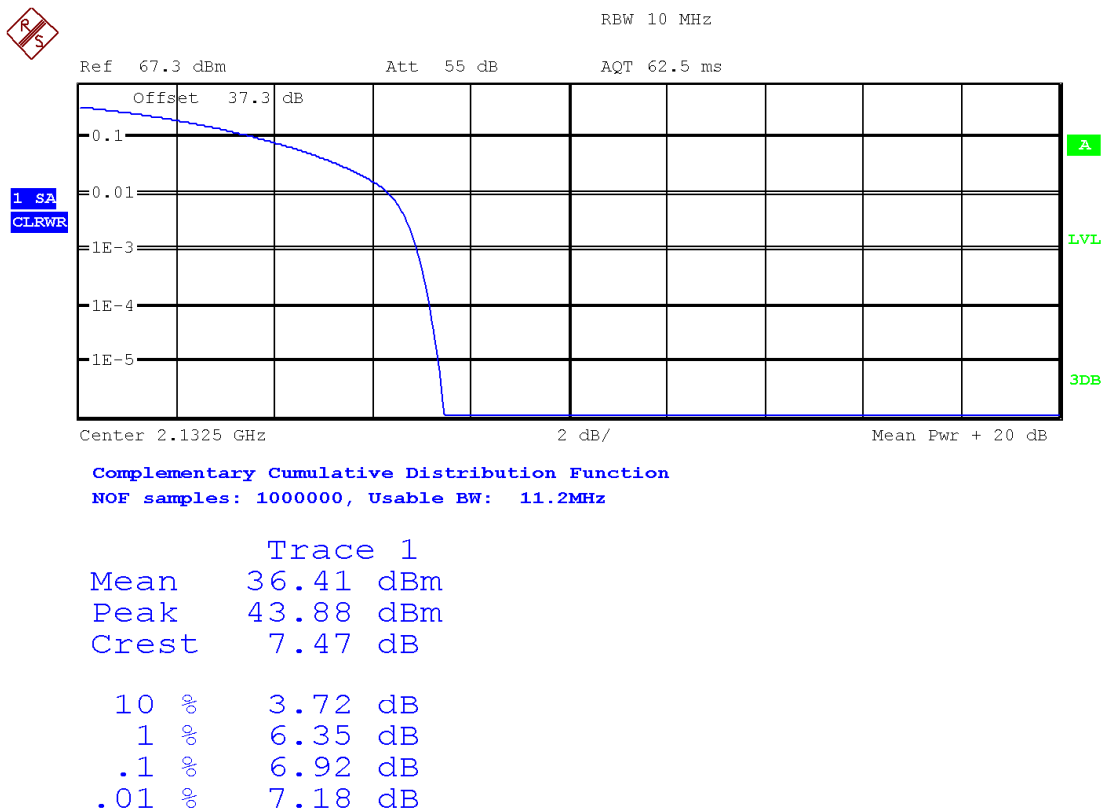
Date: 16.APR.2012 12:11:04

2.1.2.4 EUT Conf. TX_10M_B_TM1.1



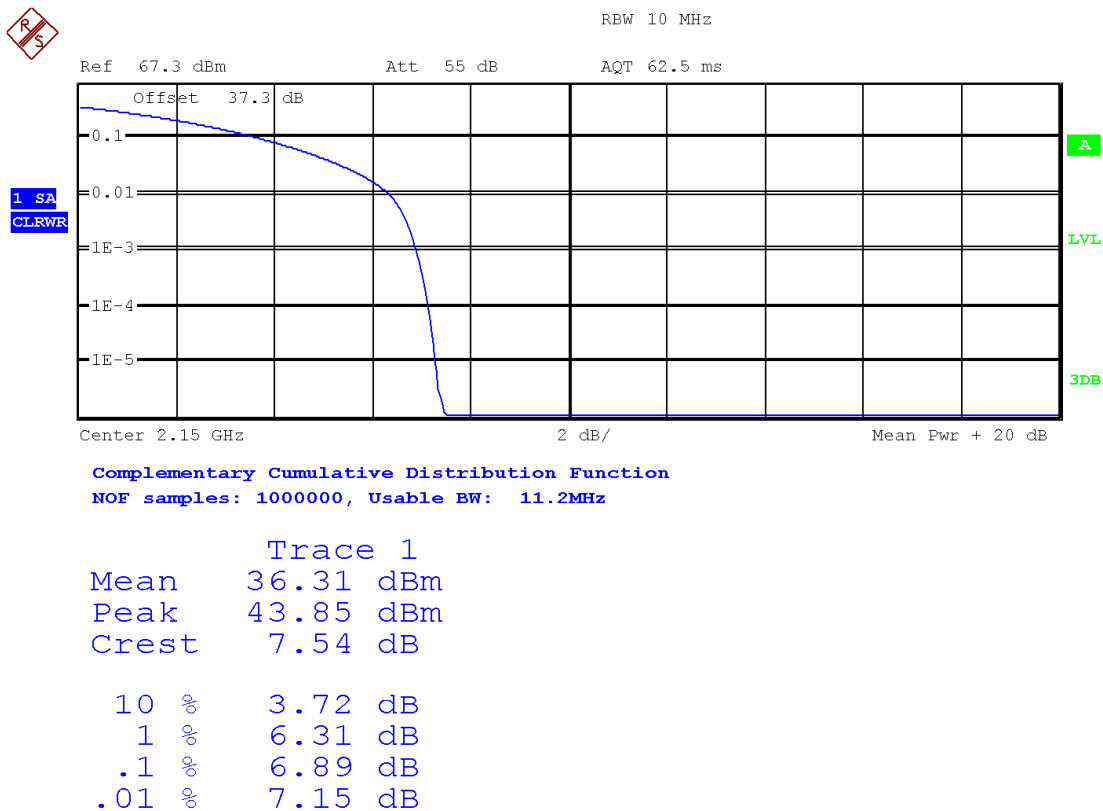
Date: 16.APR.2012 12:02:34

2.1.2.5 EUT Conf. TX_10M_M_TM1.1



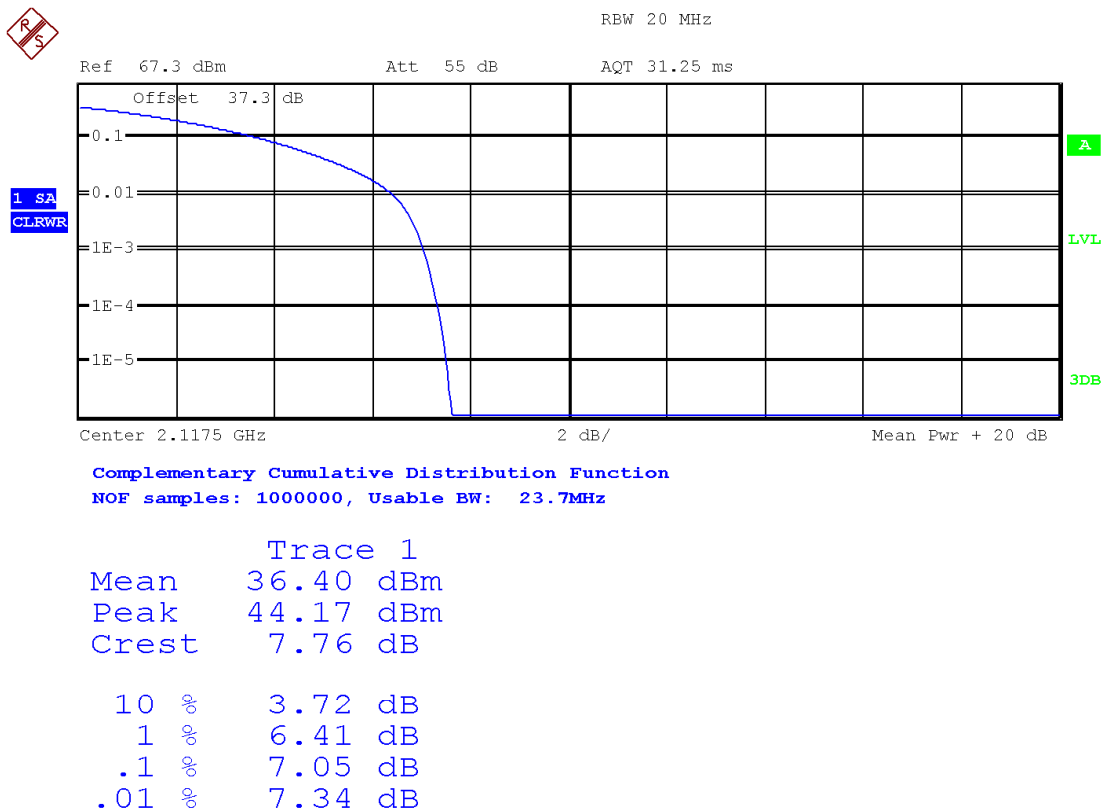
Date: 16.APR.2012 12:04:12

2.1.2.6 EUT Conf. TX_10M_T_TM1.1



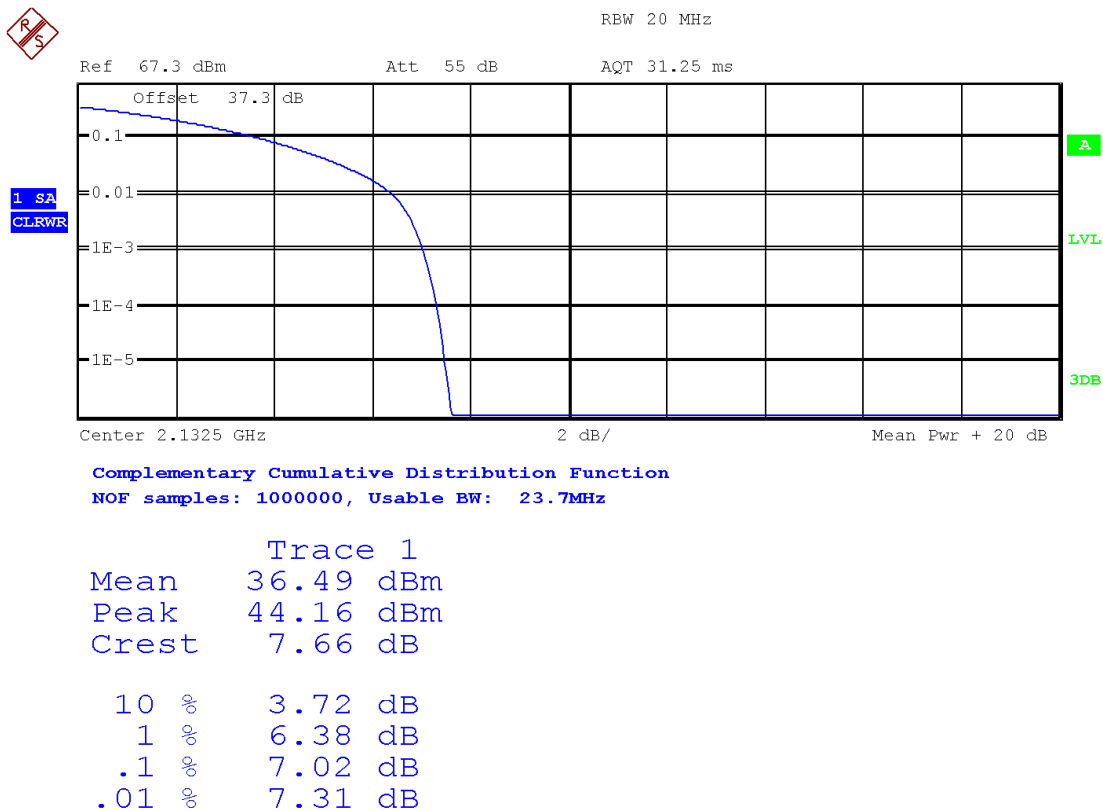
Date: 16.APR.2012 12:05:46

2.1.2.7 EUT Conf. TX_15M_B_TM1.1



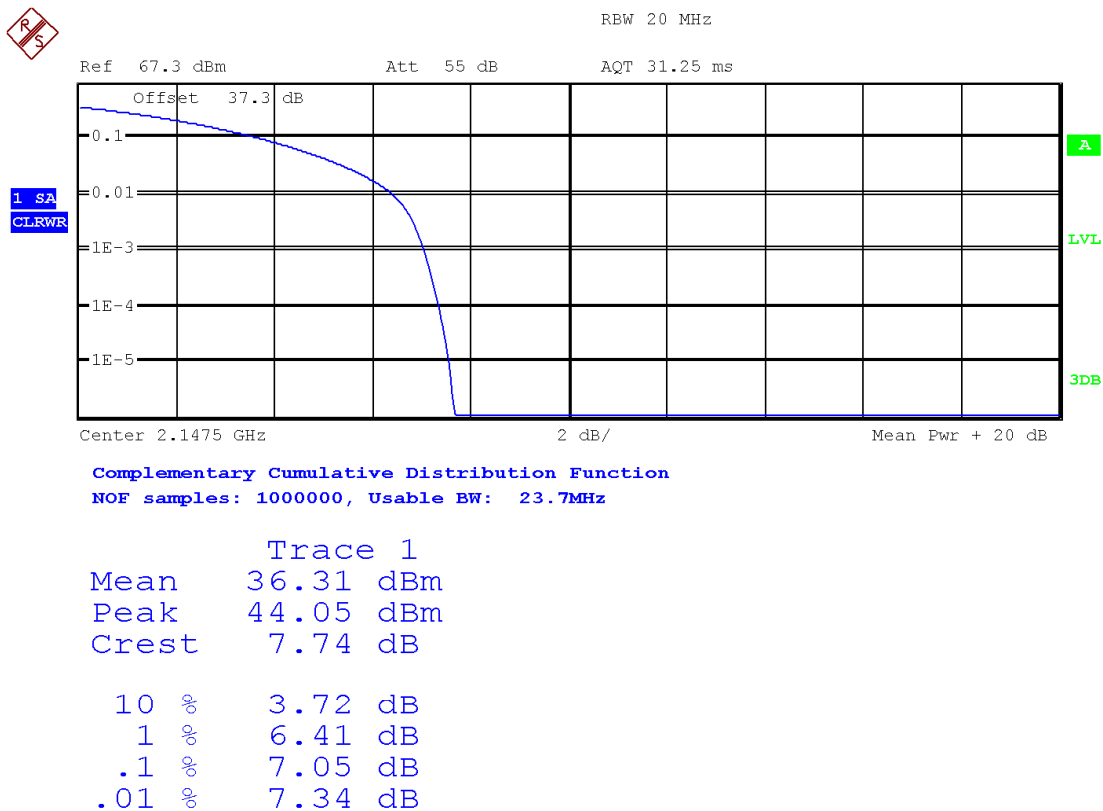
Date: 16.APR.2012 11:51:35

2.1.2.8 EUT Conf. TX_15M_M_TM1.1



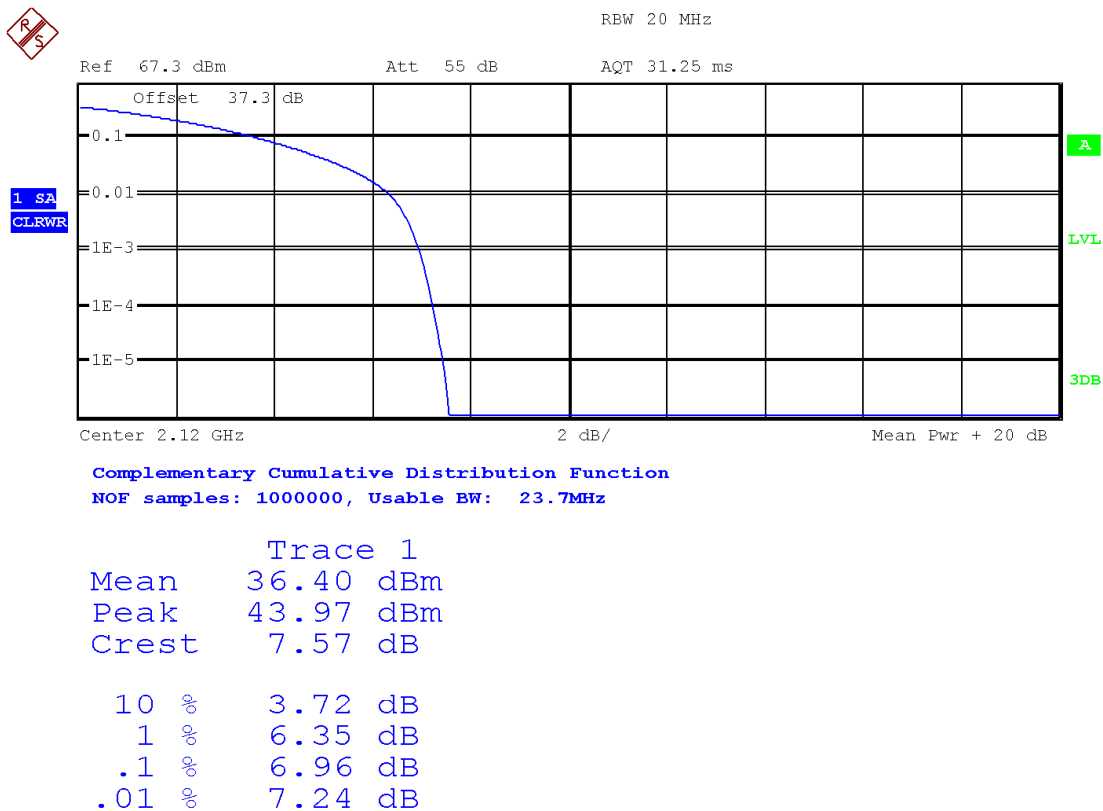
Date: 16.APR.2012 11:56:43

2.1.2.9 EUT Conf. TX_15M_T_TM1.1



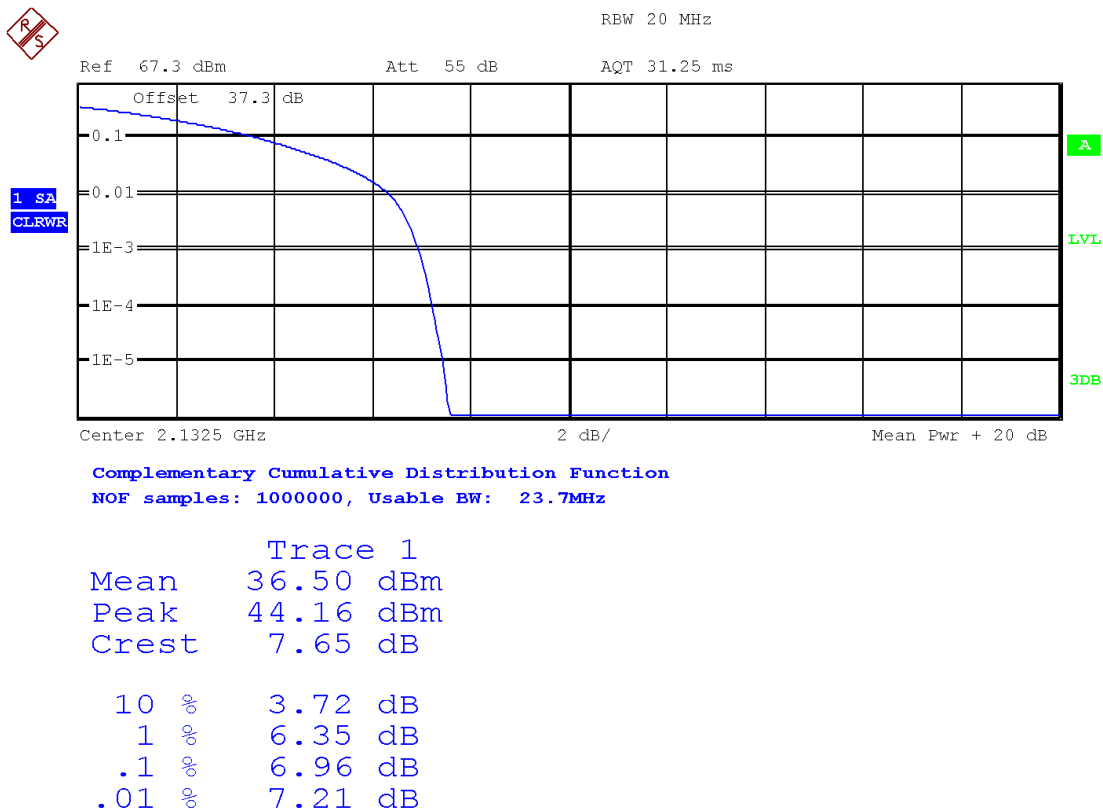
Date: 16.APR.2012 11:58:20

2.1.2.10 EUT Conf. TX_20M_B_TM1.1



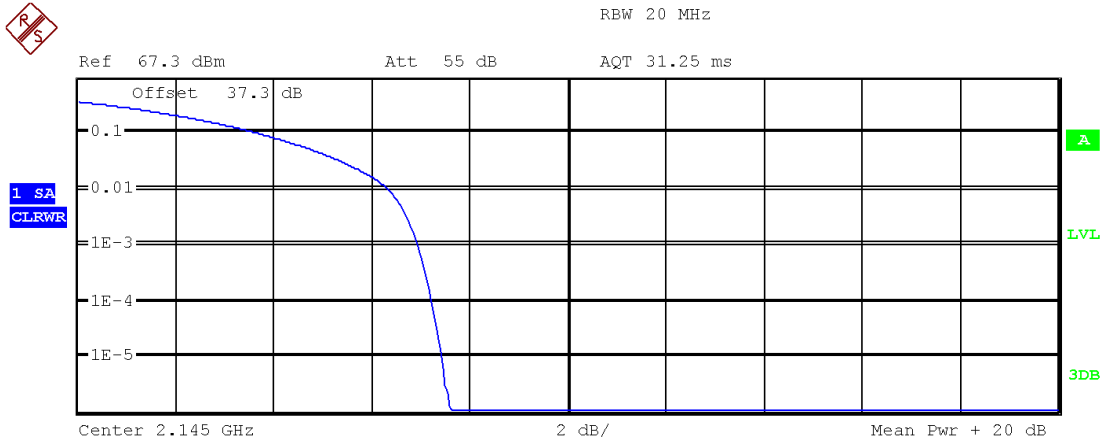
Date: 16.APR.2012 11:37:07

2.1.2.11 EUT Conf. TX_20M_M_TM1.1



Date: 16.APR.2012 11:33:24

2.1.2.12 EUT Conf. TX_20M_T_TM1.1



Complementary Cumulative Distribution Function
NOF samples: 1000000, Usable BW: 23.7MHz

Trace 1
Mean 36.28 dBm
Peak 43.91 dBm
Crest 7.63 dB

10 % 3.72 dB
1 % 6.31 dB
.1 % 6.96 dB
.01 % 7.21 dB

Date: 16.APR.2012 11:40:00



Appendix B: Modulation Characteristics

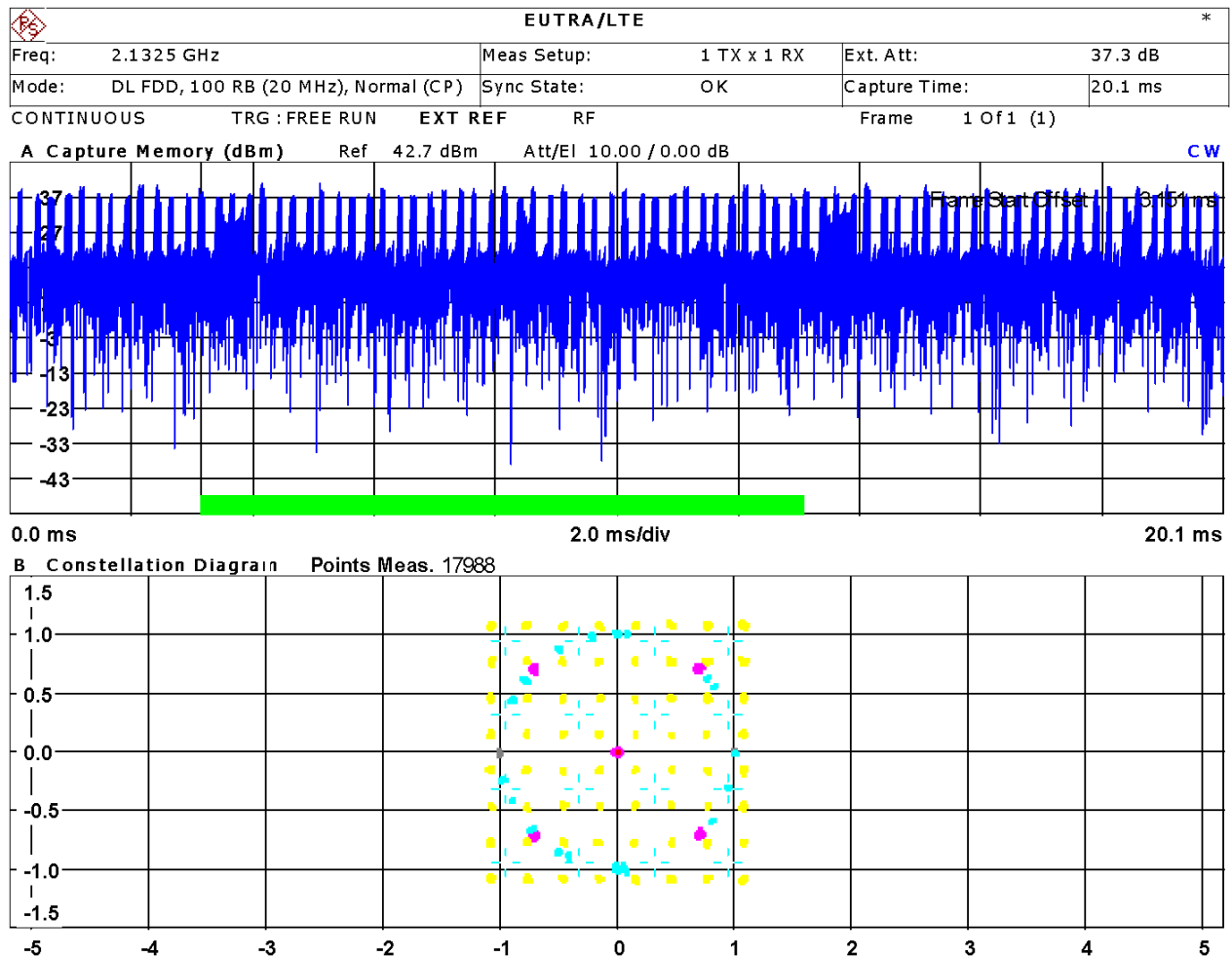


1 Result Table

EUT Conf.	Digital modulation?	Verdict
EUT Conf. TX_20M_M_TM2	Yes	Pass

2 Test Plot

2.1 EUT Conf. TX_20M_M_TM2



Running ...

Date: 16.APR.2012 12:21:53



Appendix C: Occupied Bandwidth

1 Result Table

1.1 99% Occupied Bandwidth

Port A:

EUT Conf.	99% Occupied Bandwidth [MHz]	Verdict
EUT Conf. TX_5M_B_TM1.1	4.4872	Pass
EUT Conf. TX_5M_M_TM1.1	4.4872	Pass
EUT Conf. TX_5M_T_TM1.1	4.4872	Pass
EUT Conf. TX_10M_B_TM1.1	8.9423	Pass
EUT Conf. TX_10M_M_TM1.1	8.9423	Pass
EUT Conf. TX_10M_T_TM1.1	8.9423	Pass
EUT Conf. TX_15M_B_TM1.1	13.4615	Pass
EUT Conf. TX_15M_M_TM1.1	13.4615	Pass
EUT Conf. TX_15M_T_TM1.1	13.4615	Pass
EUT Conf. TX_20M_B_TM1.1	17.8686	Pass
EUT Conf. TX_20M_M_TM1.1	17.8846	Pass
EUT Conf. TX_20M_T_TM1.1	17.8846	Pass

Port B:

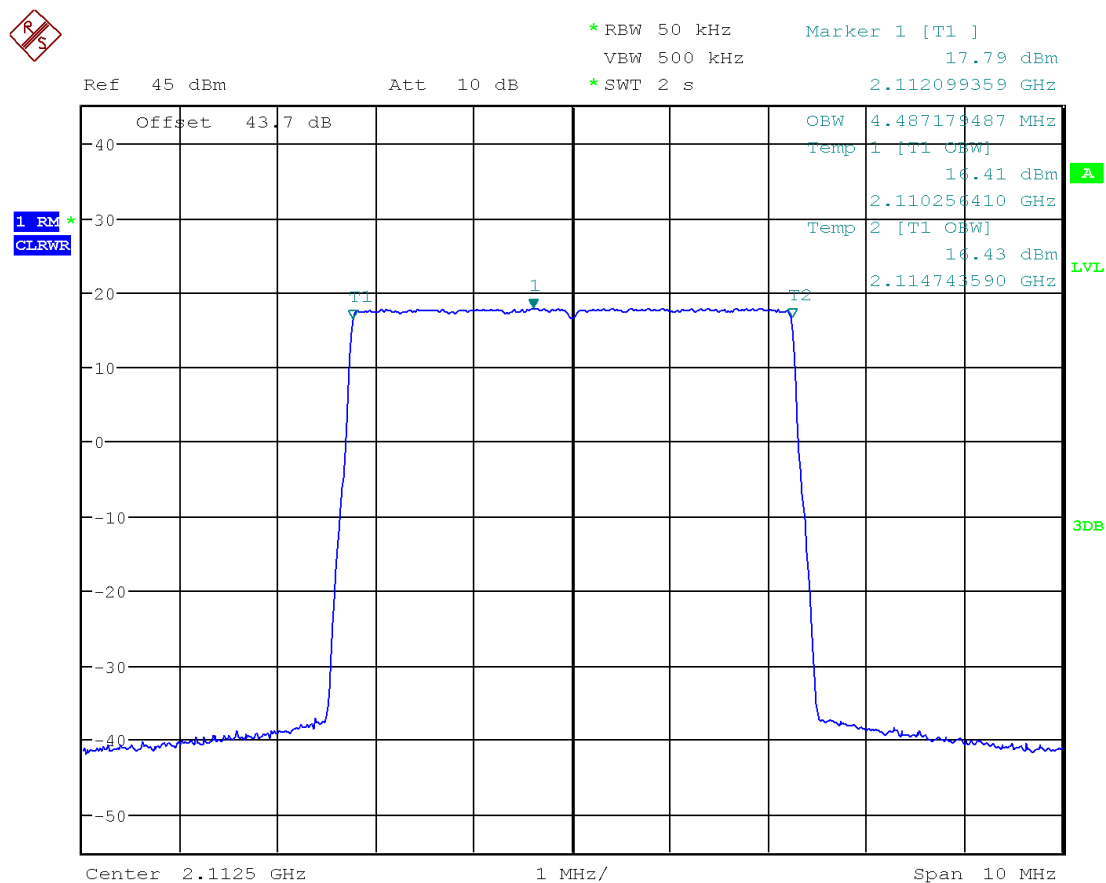
EUT Conf.	99% Occupied Bandwidth [MHz]	Verdict
EUT Conf. TX_5M_B_TM1.1	4.4754	Pass
EUT Conf. TX_5M_M_TM1.1	4.4756	Pass
EUT Conf. TX_5M_T_TM1.1	4.4753	Pass
EUT Conf. TX_10M_B_TM1.1	8.9380	Pass
EUT Conf. TX_10M_M_TM1.1	8.9384	Pass
EUT Conf. TX_10M_T_TM1.1	8.9381	Pass
EUT Conf. TX_15M_B_TM1.1	13.3810	Pass
EUT Conf. TX_15M_M_TM1.1	13.3818	Pass
EUT Conf. TX_15M_T_TM1.1	13.3810	Pass
EUT Conf. TX_20M_B_TM1.1	17.8318	Pass
EUT Conf. TX_20M_M_TM1.1	17.8329	Pass
EUT Conf. TX_20M_T_TM1.1	17.8321	Pass

2 Test Plot

2.1 99% Occupied Bandwidth

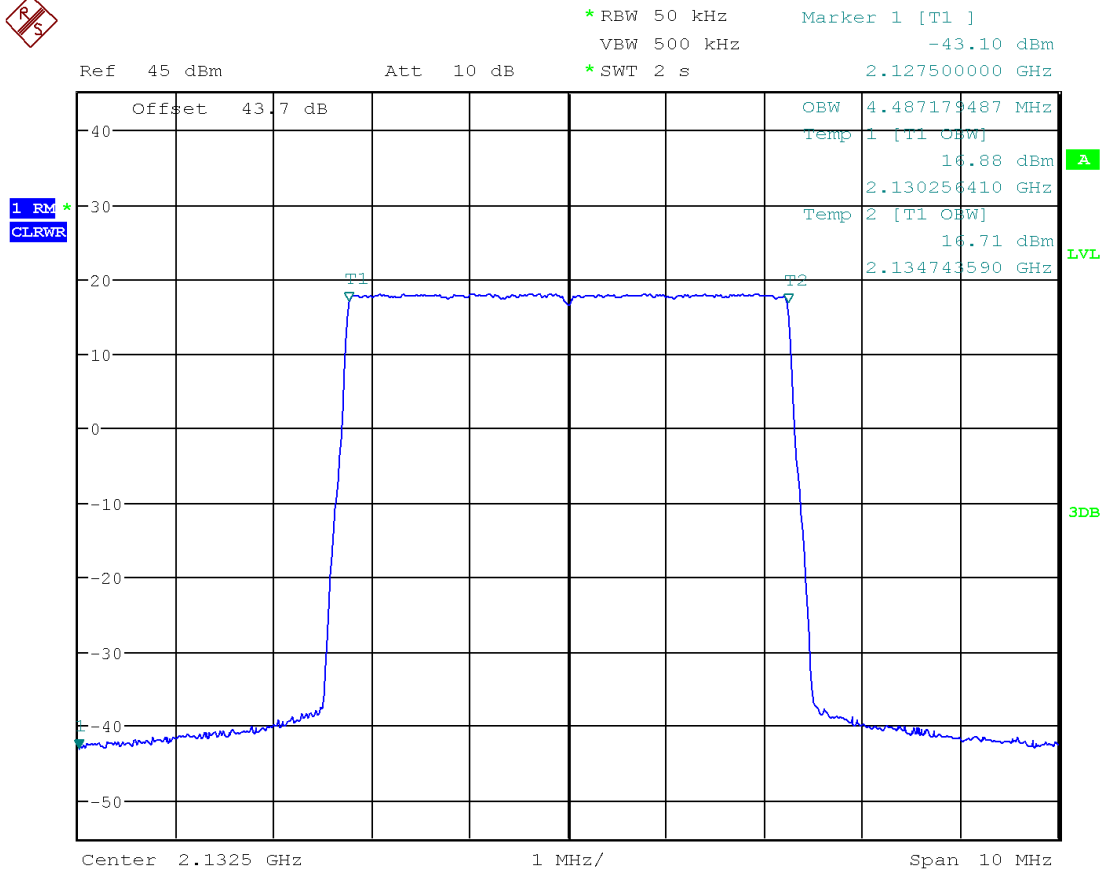
2.1.1 Port A

2.1.1.1 EUT Conf. TX_5M_B_TM1.1



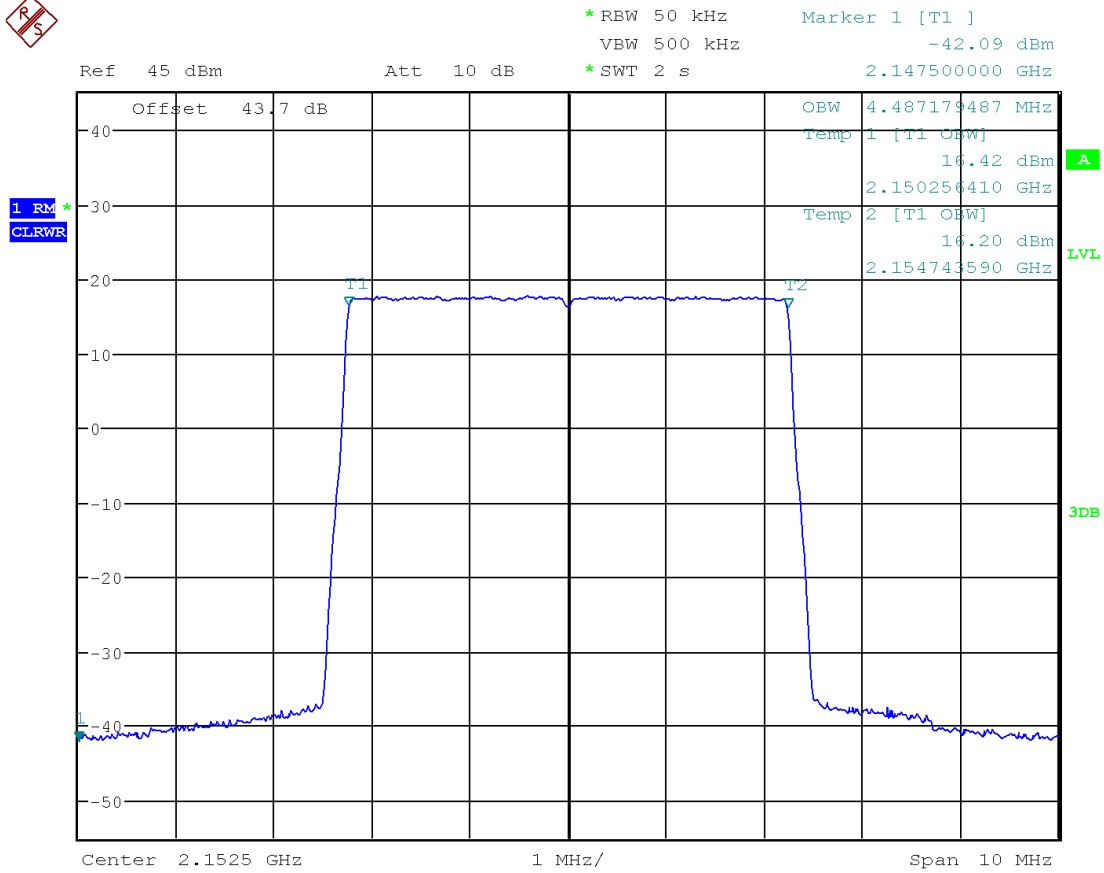
Date: 16.MAY.2012 20:41:19

2.1.1.2 EUT Conf. TX_5M_M_TM1.1



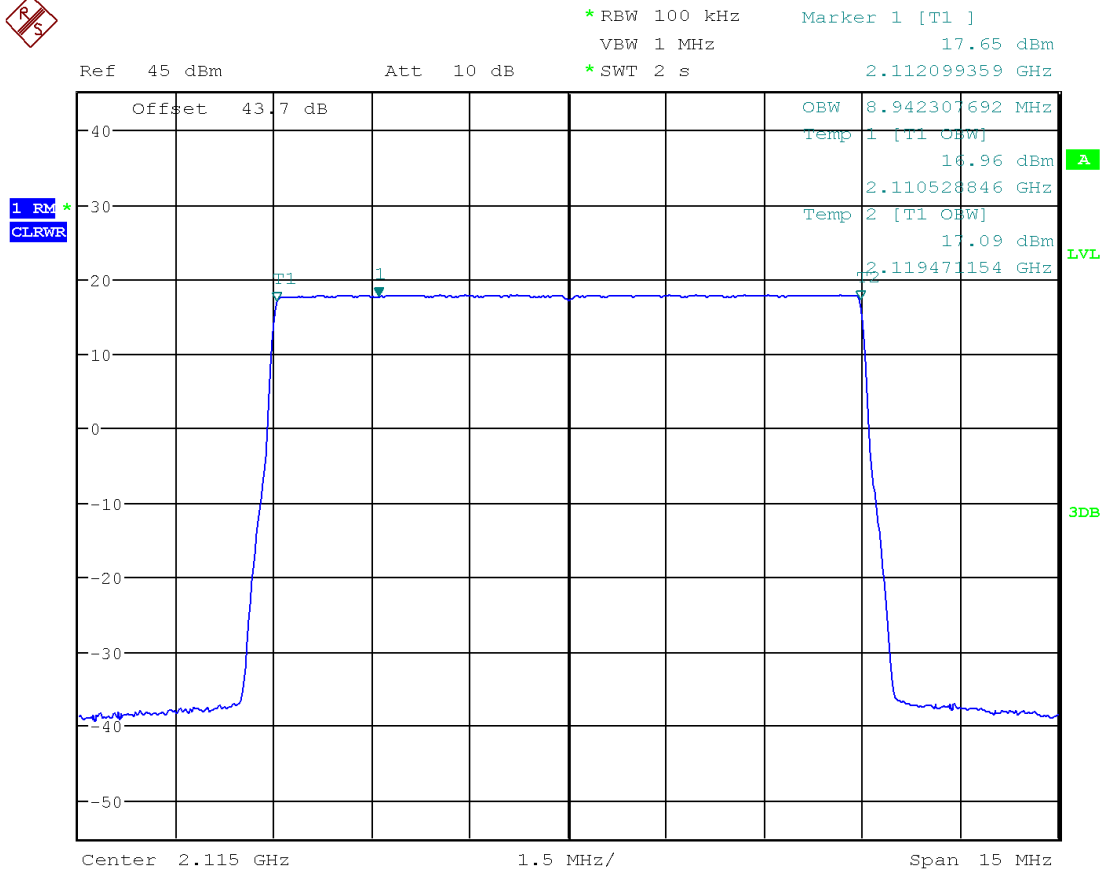
Date: 16.MAY.2012 20:56:52

2.1.1.3 EUT Conf. TX_5M_T_TM1.1



Date: 16.MAY.2012 20:58:46

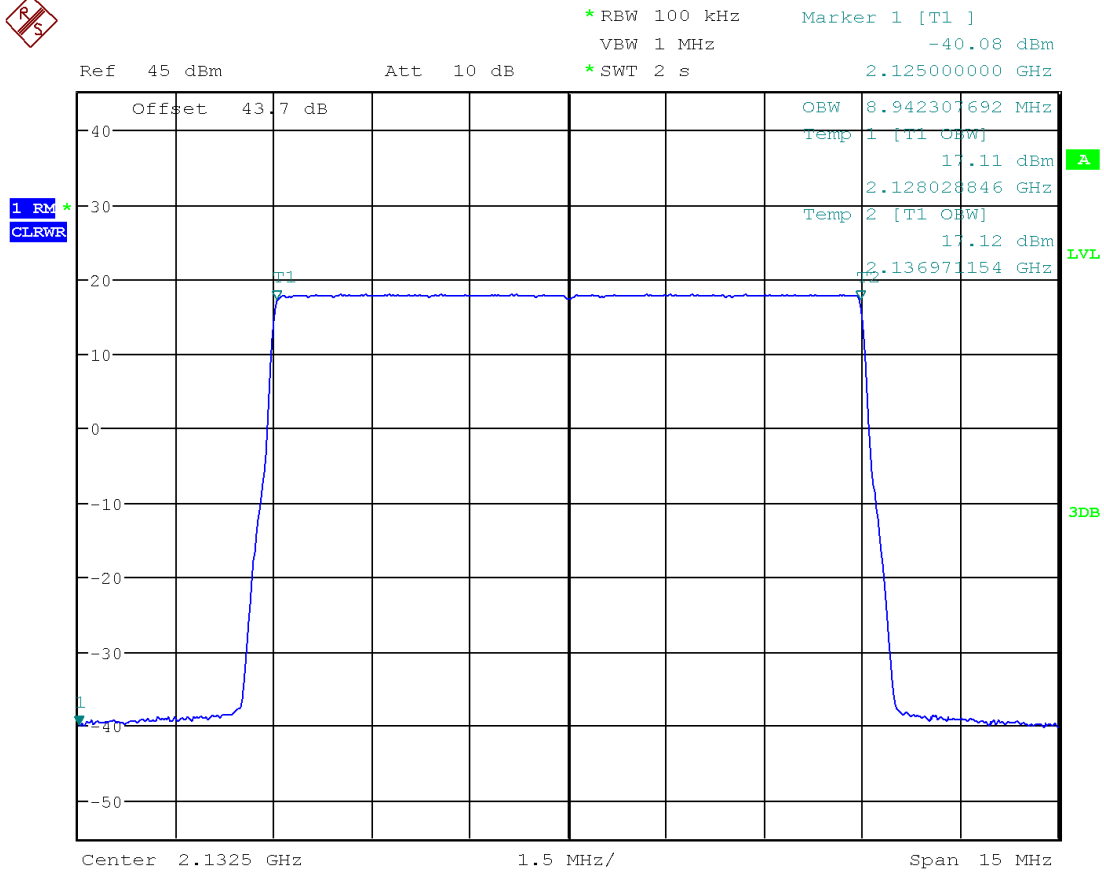
2.1.1.4 EUT Conf. TX_10M_B_TM1.1



Date: 16.MAY.2012 21:11:45

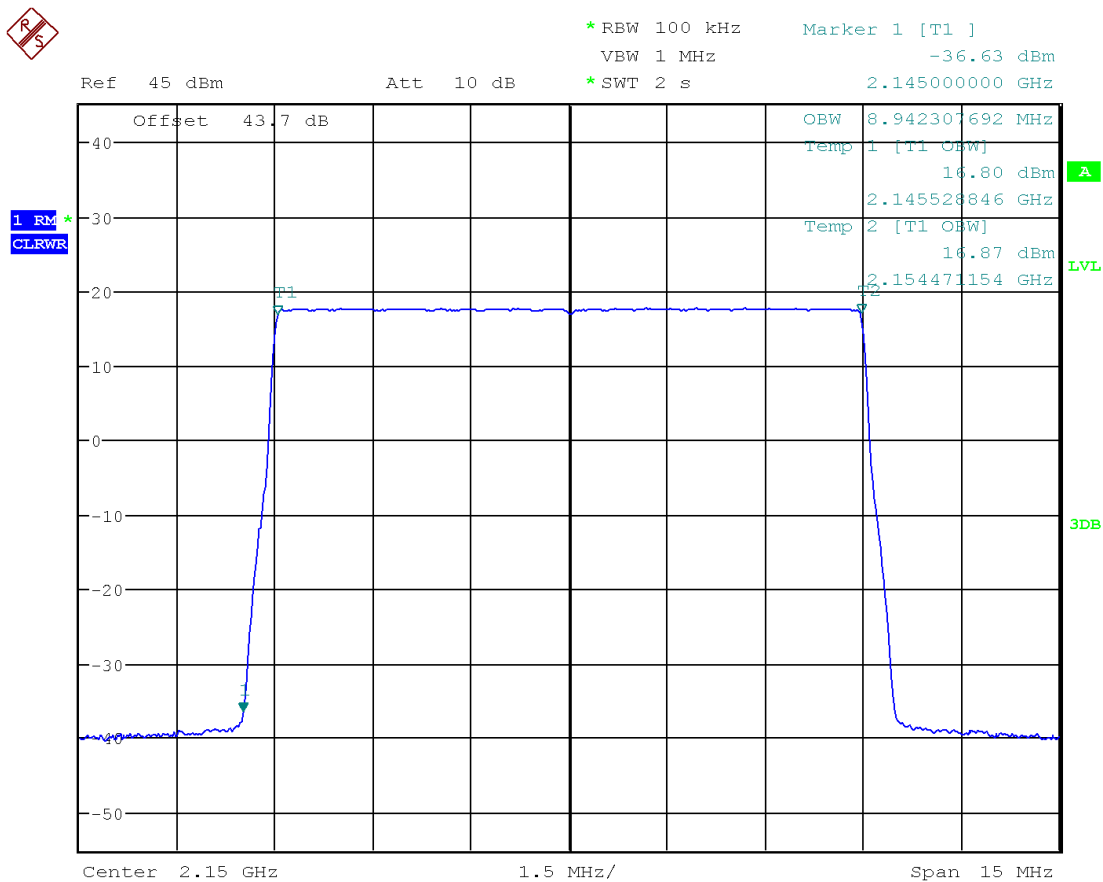


2.1.1.5 EUT Conf. TX_10M_M_TM1.1



Date: 16.MAY.2012 21:14:13

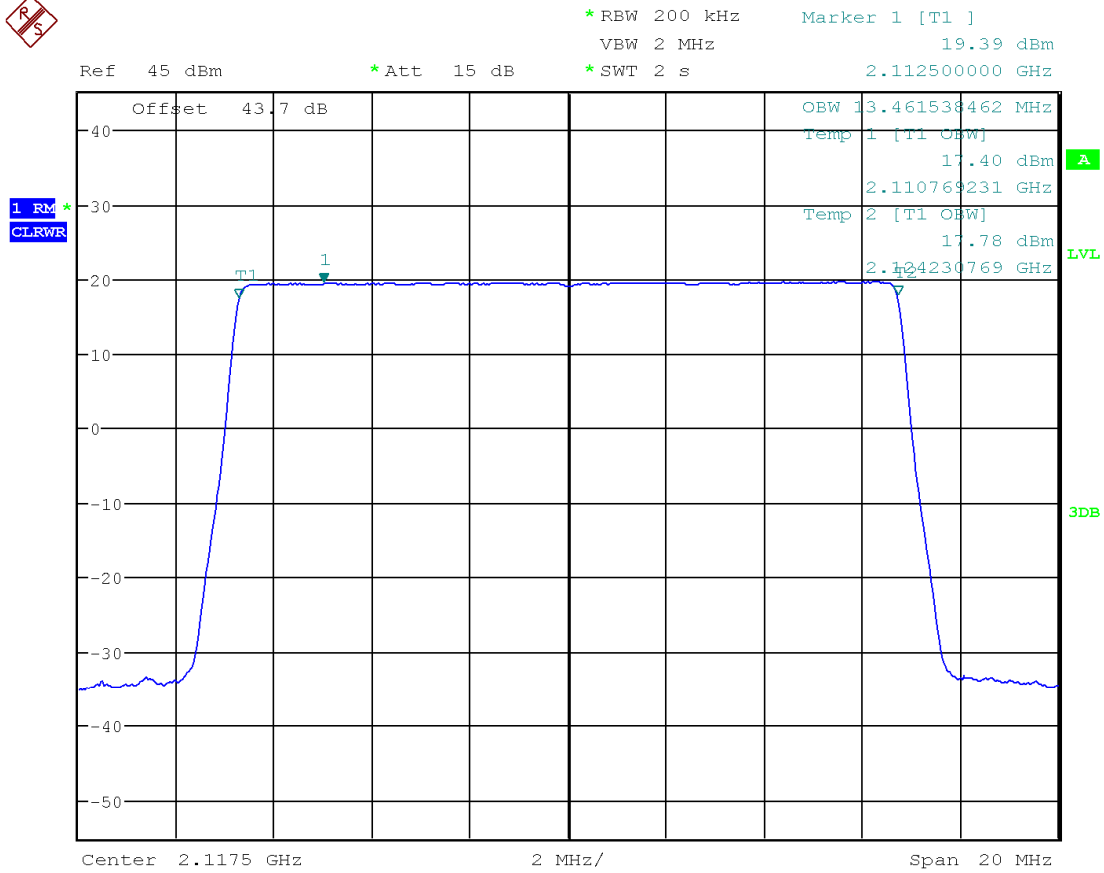
2.1.1.6 EUT Conf. TX_10M_T_TM1.1



Date: 16.MAY.2012 21:21:38

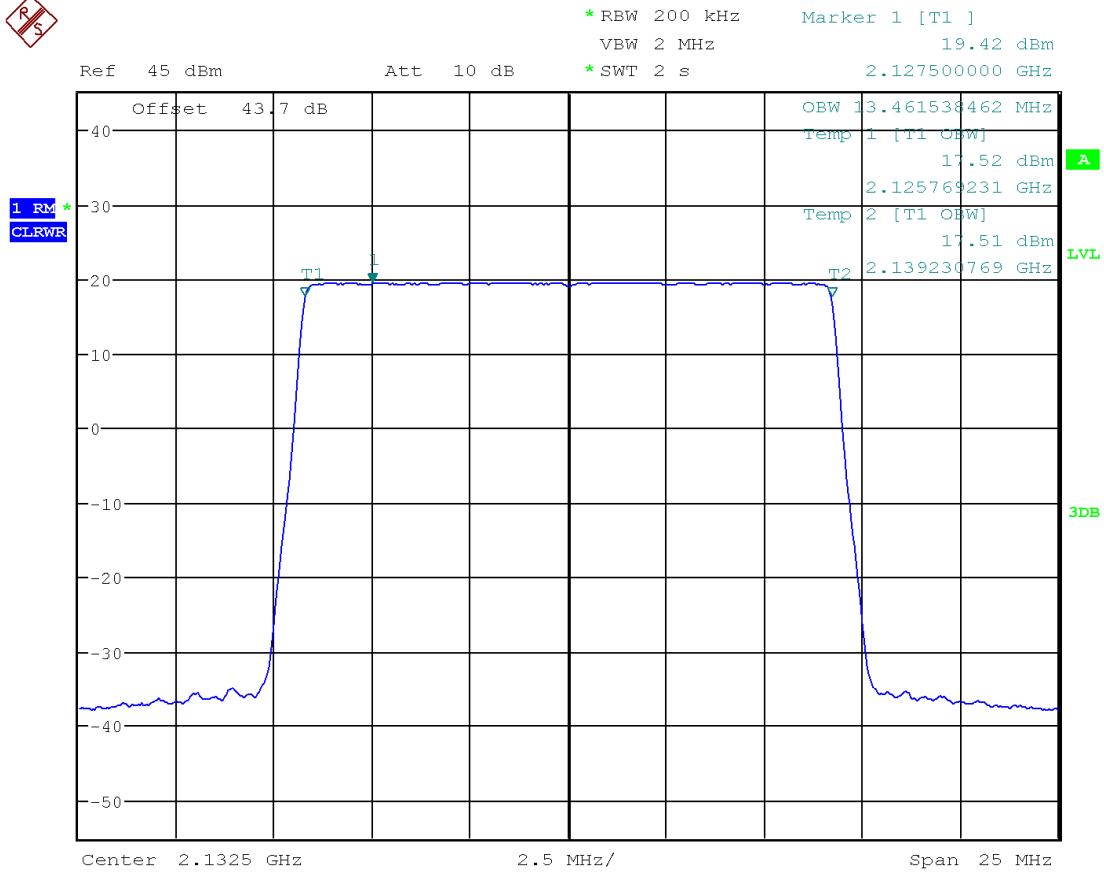


2.1.1.7 EUT Conf. TX_15M_B_TM1.1



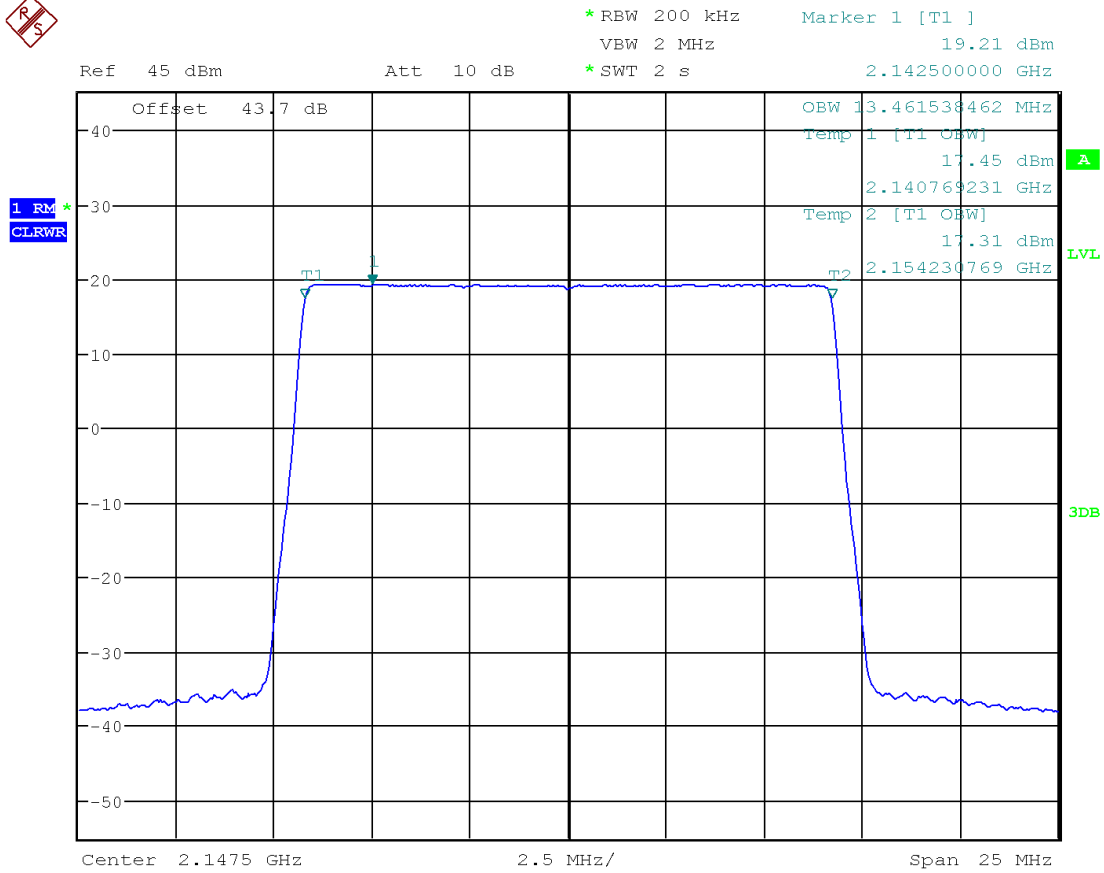
Date: 16.MAY.2012 21:30:55

2.1.1.8 EUT Conf. TX_15M_M_TM1.1



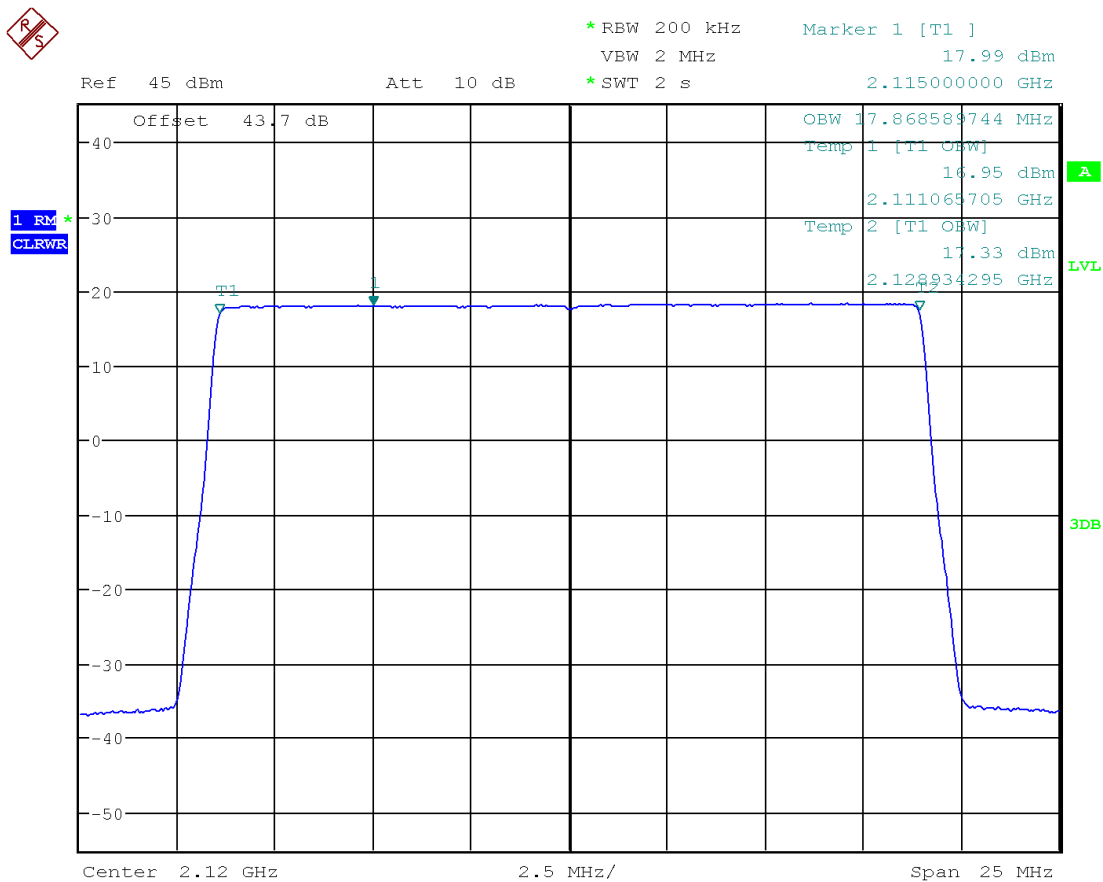
Date: 16.MAY.2012 21:38:18

2.1.1.9 EUT Conf. TX_15M_T_TM1.1



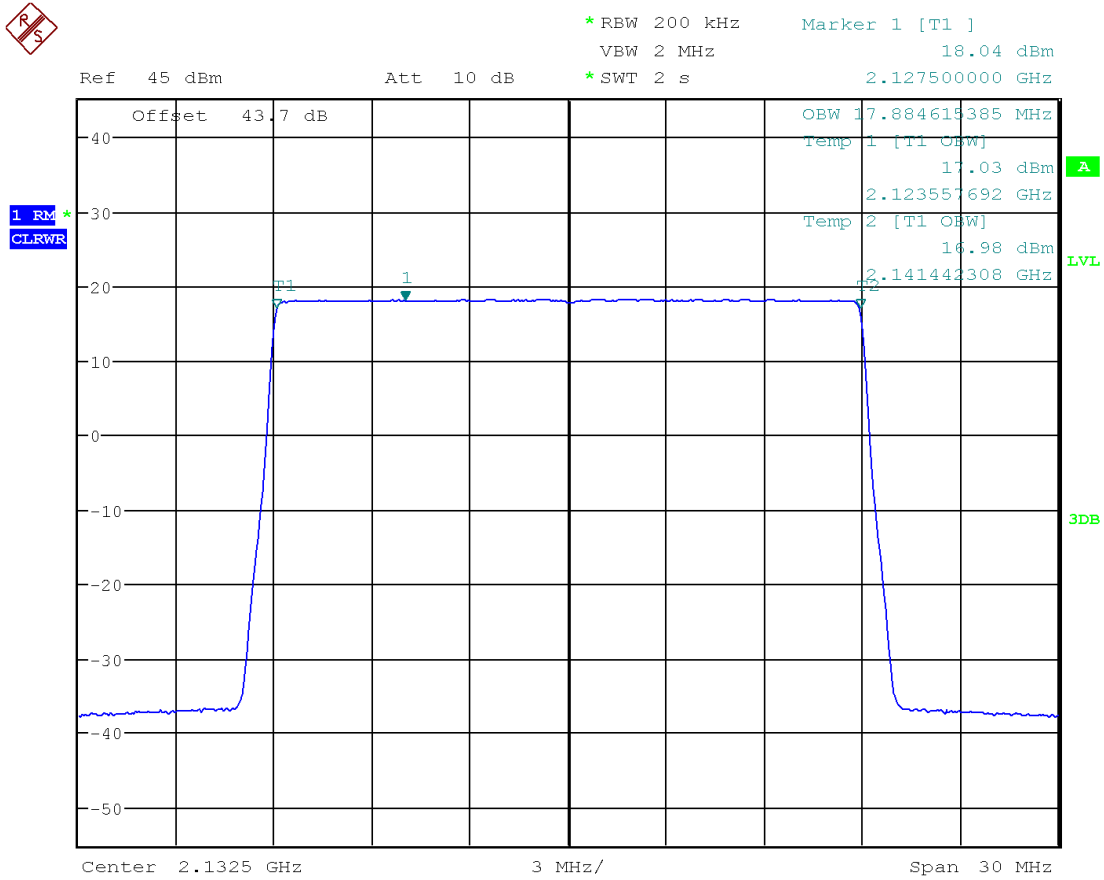
Date: 16.MAY.2012 21:42:25

2.1.1.10 EUT Conf. TX_20M_B_TM1.1



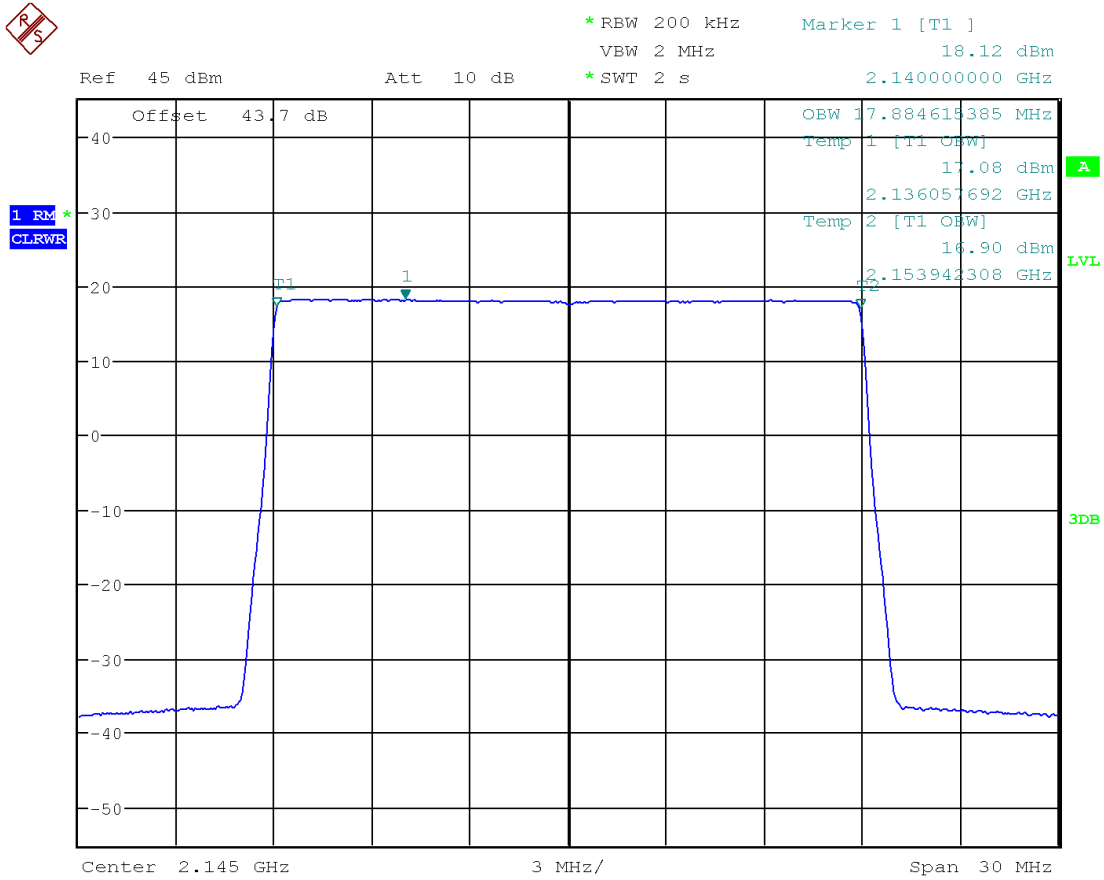
Date: 16.MAY.2012 21:51:33

2.1.1.11 EUT Conf. TX_20M_M_TM1.1



Date: 16.MAY.2012 21:55:59

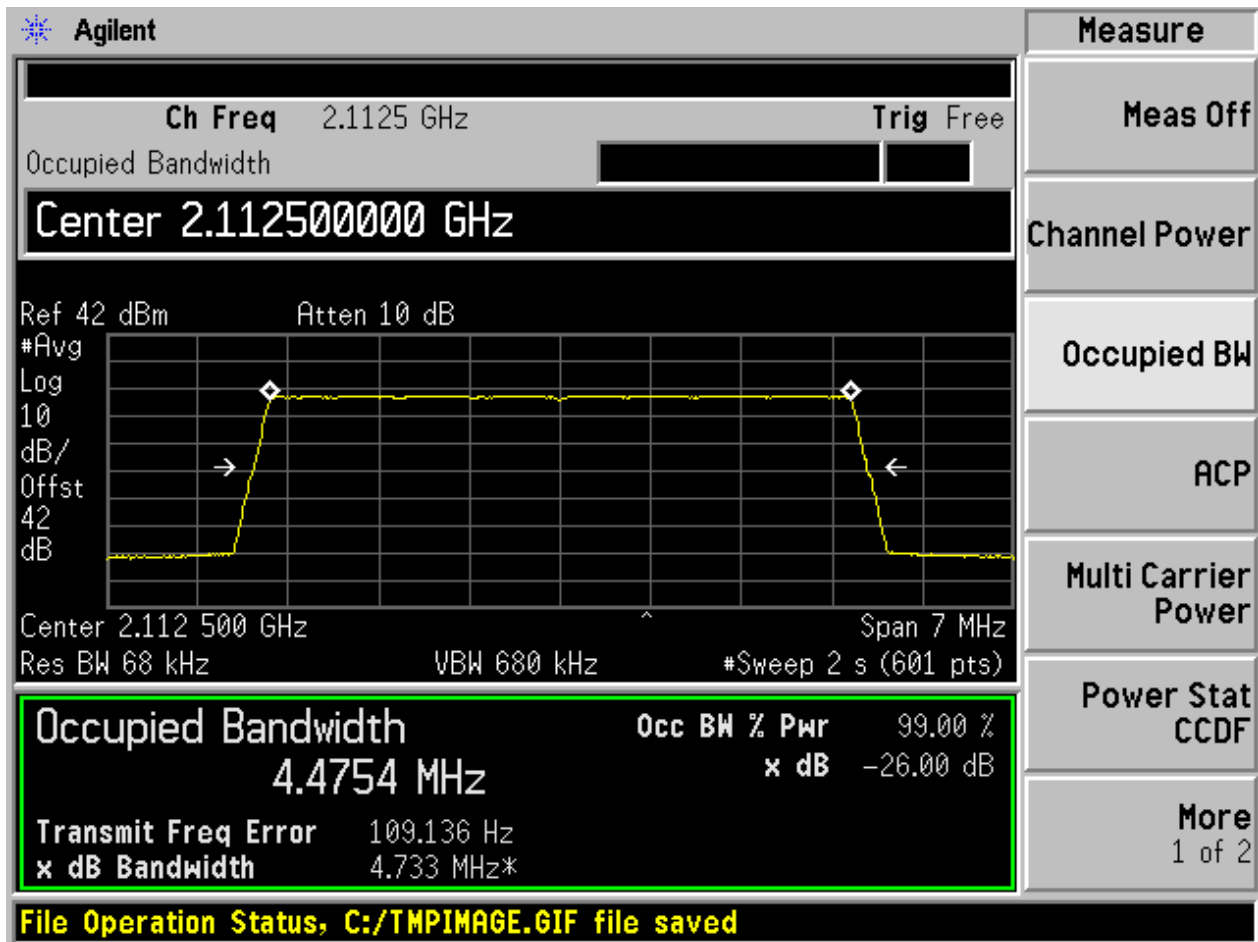
2.1.1.12 EUT Conf. TX_20M_T_TM1.1



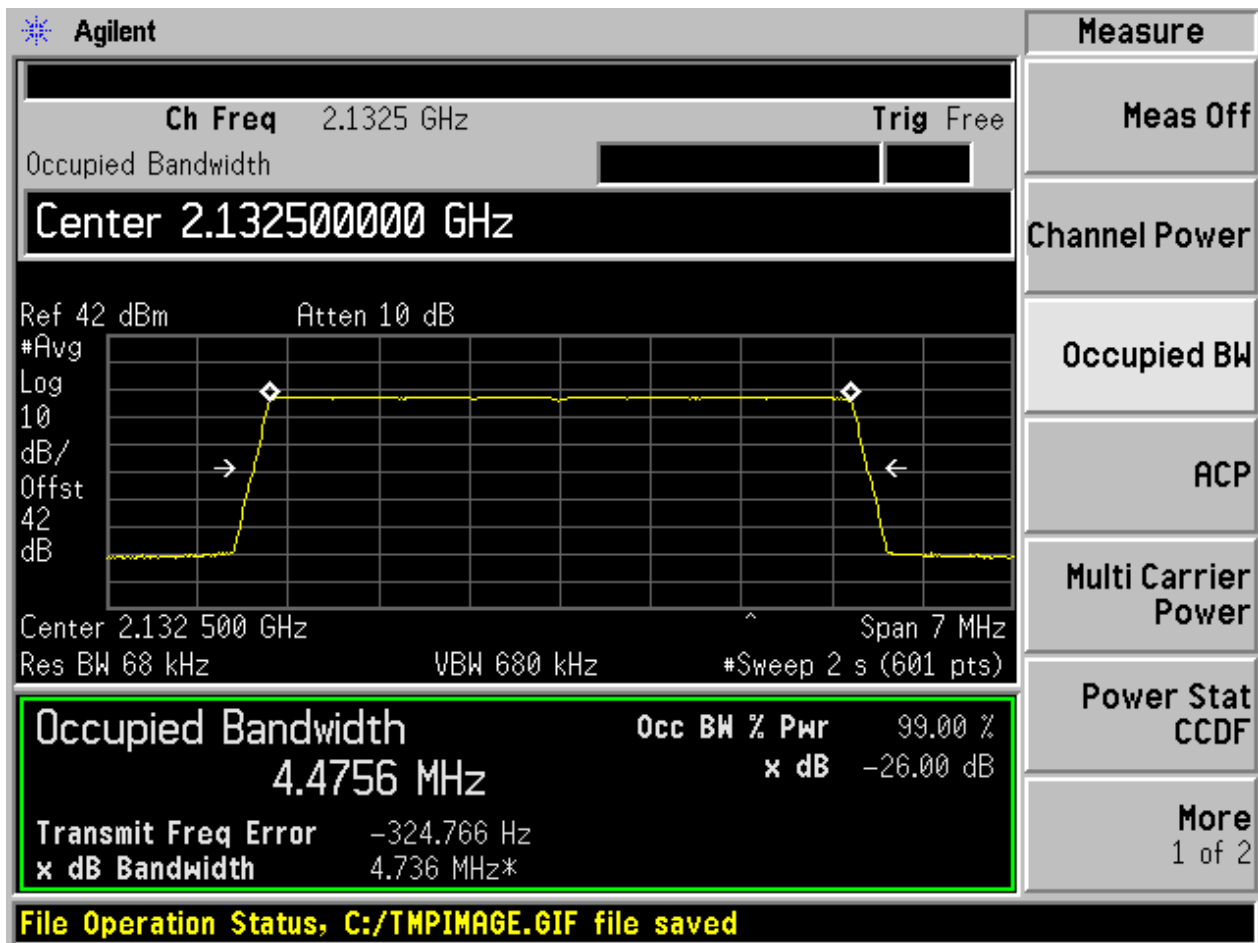
Date: 16.MAY.2012 22:02:08

2.1.2 Port B

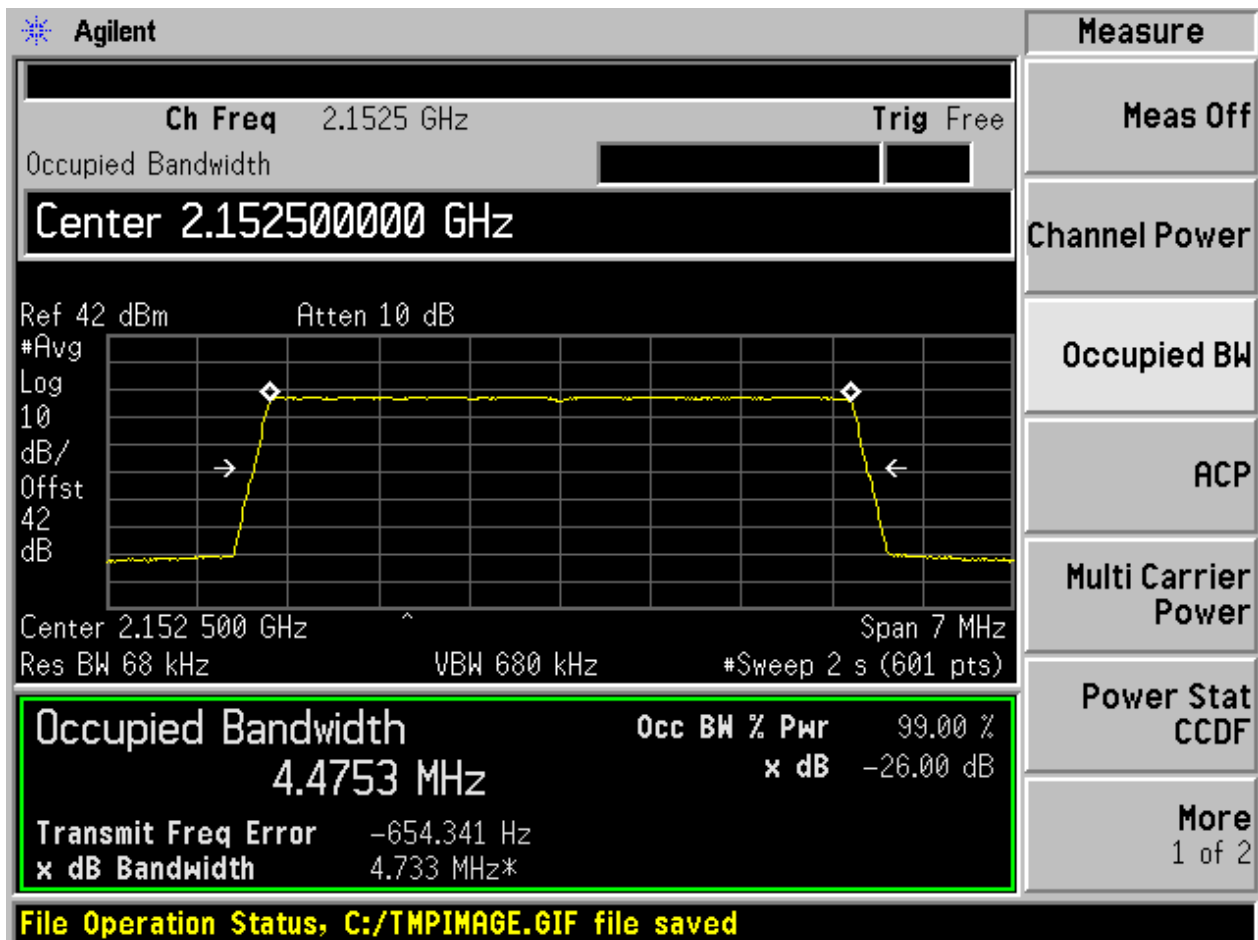
2.1.2.1 EUT Conf. TX_5M_B_TM1.1



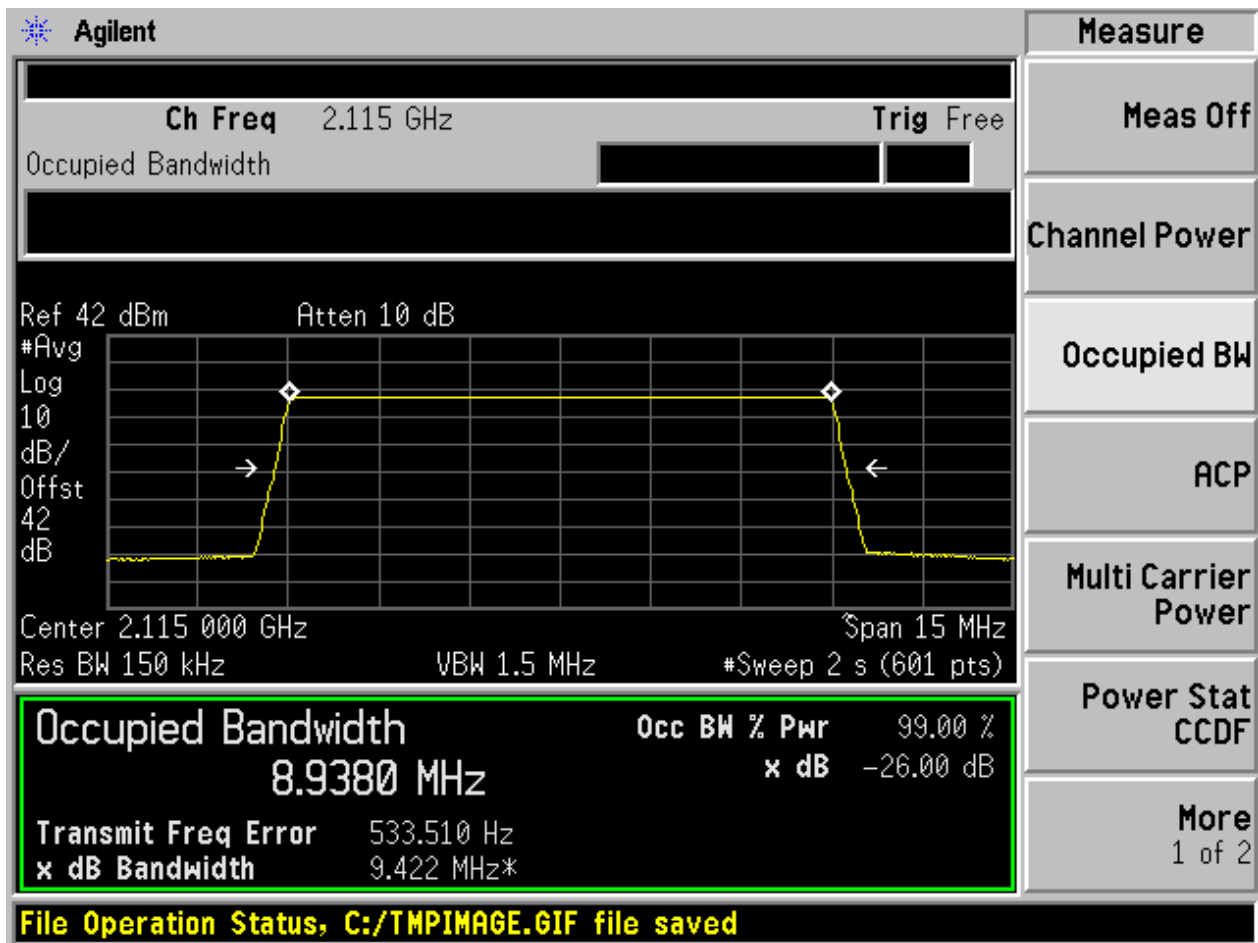
2.1.2.2 EUT Conf. TX_5M_M_TM1.1



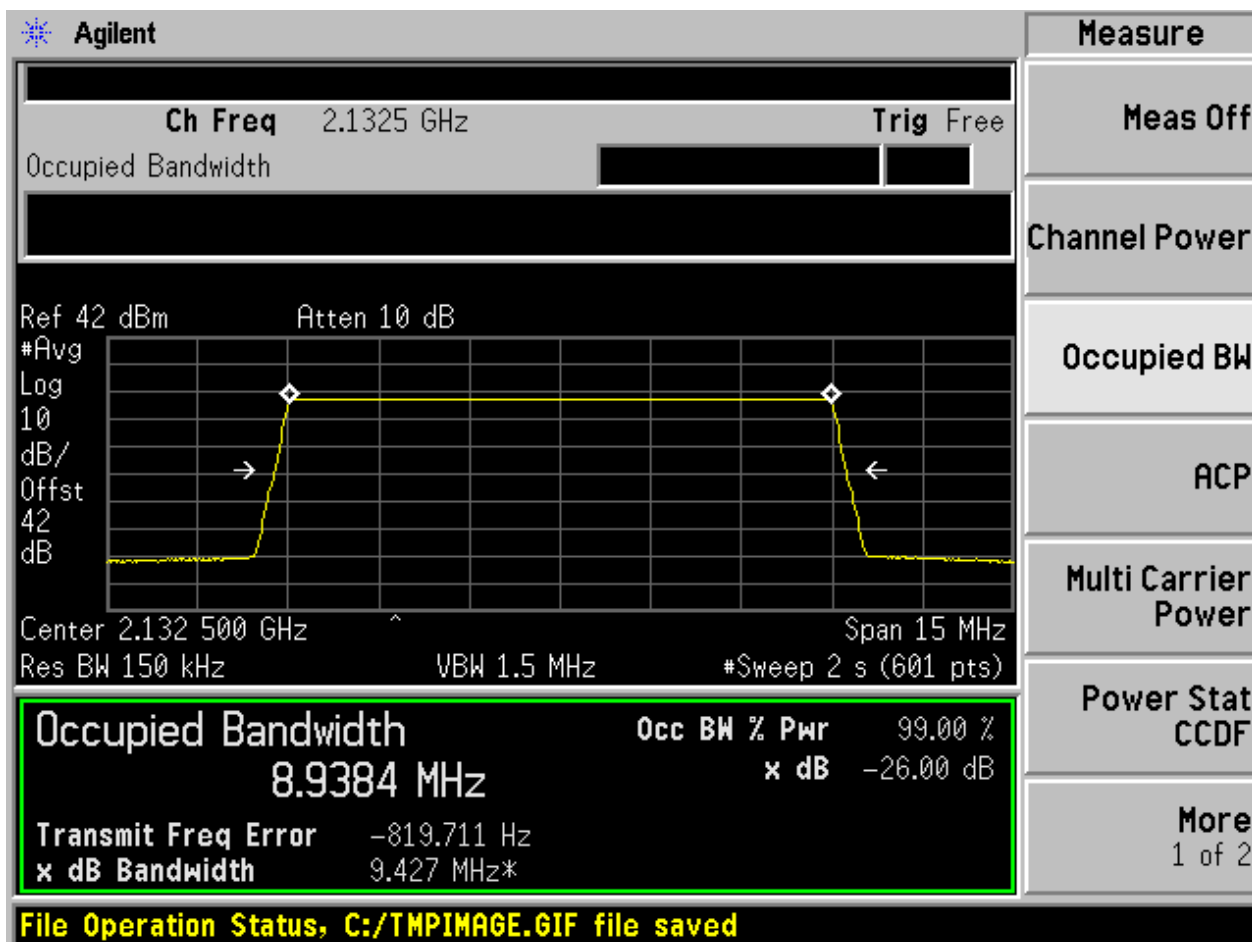
2.1.2.3 EUT Conf. TX_5M_T_TM1.1



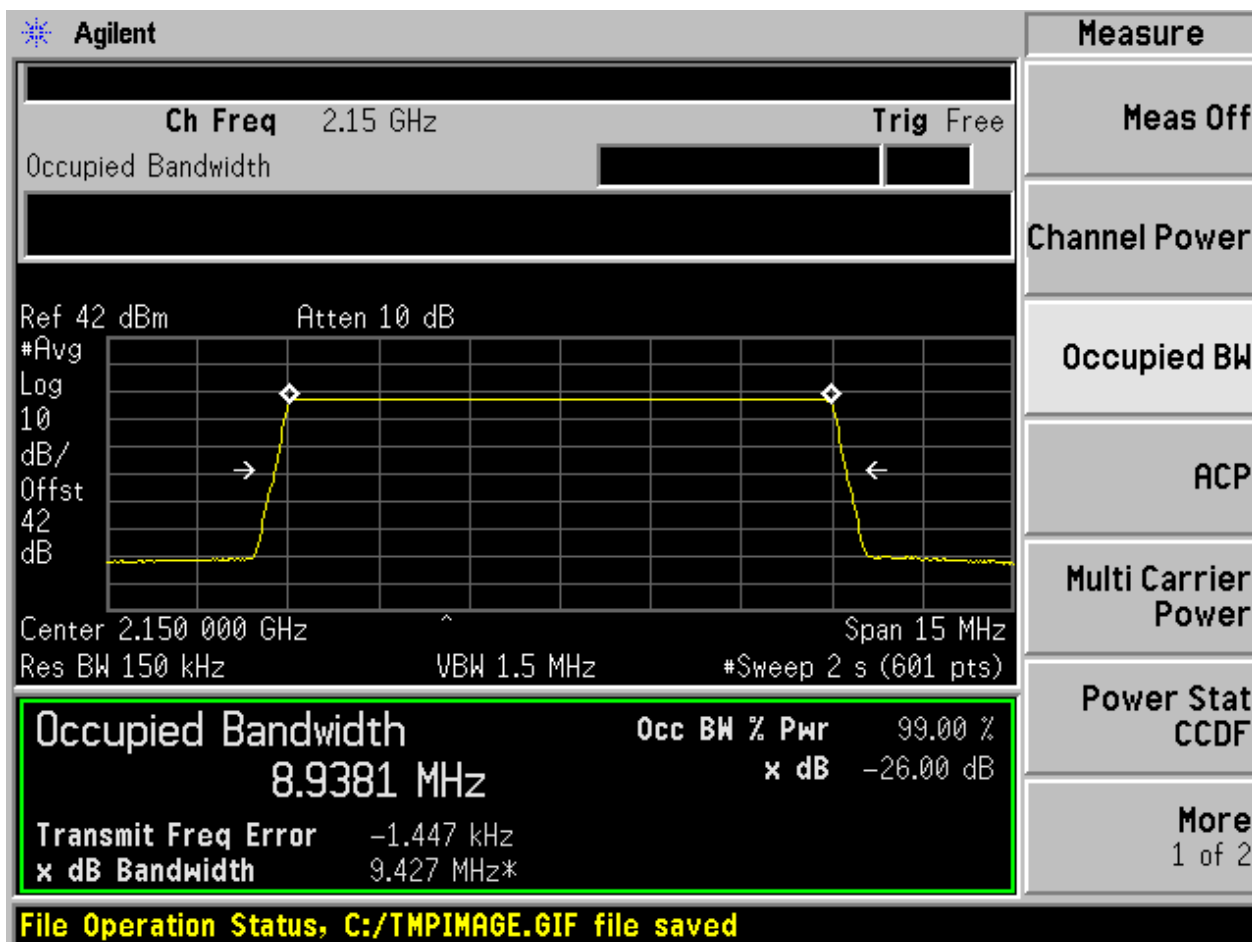
2.1.2.4 EUT Conf. TX_10M_B_TM1.1



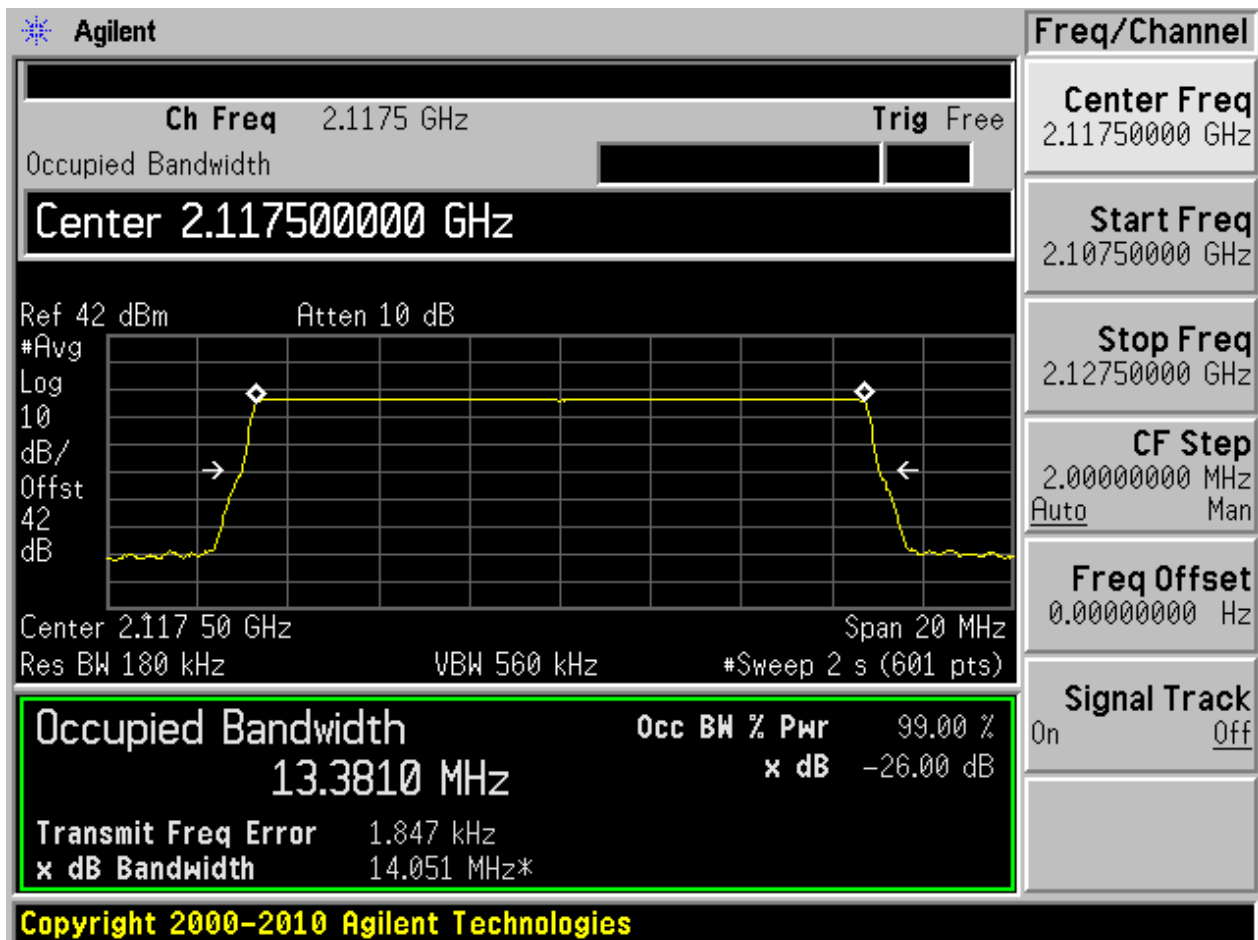
2.1.2.5 EUT Conf. TX_10M_M_TM1.1



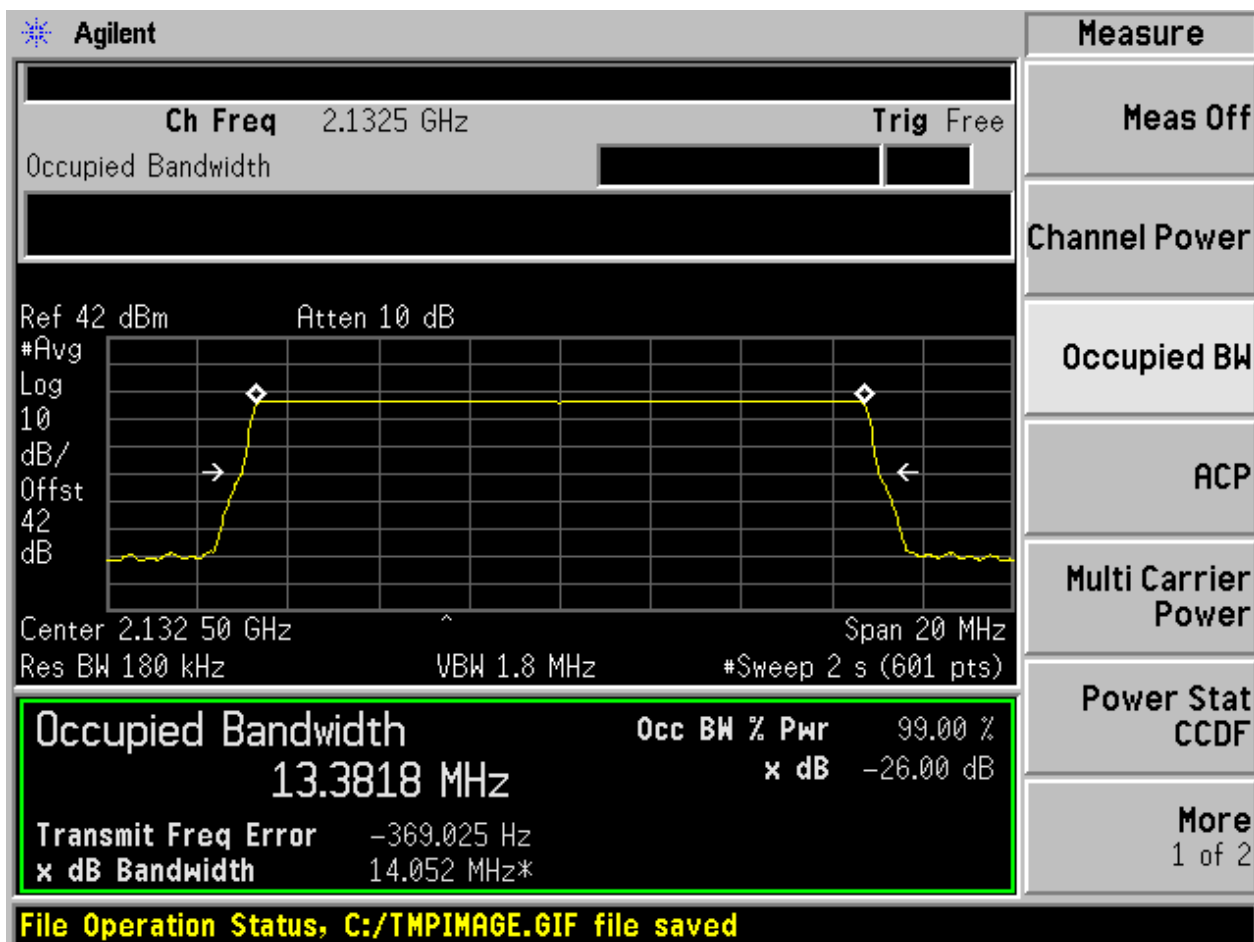
2.1.2.6 EUT Conf. TX_10M_T_TM1.1



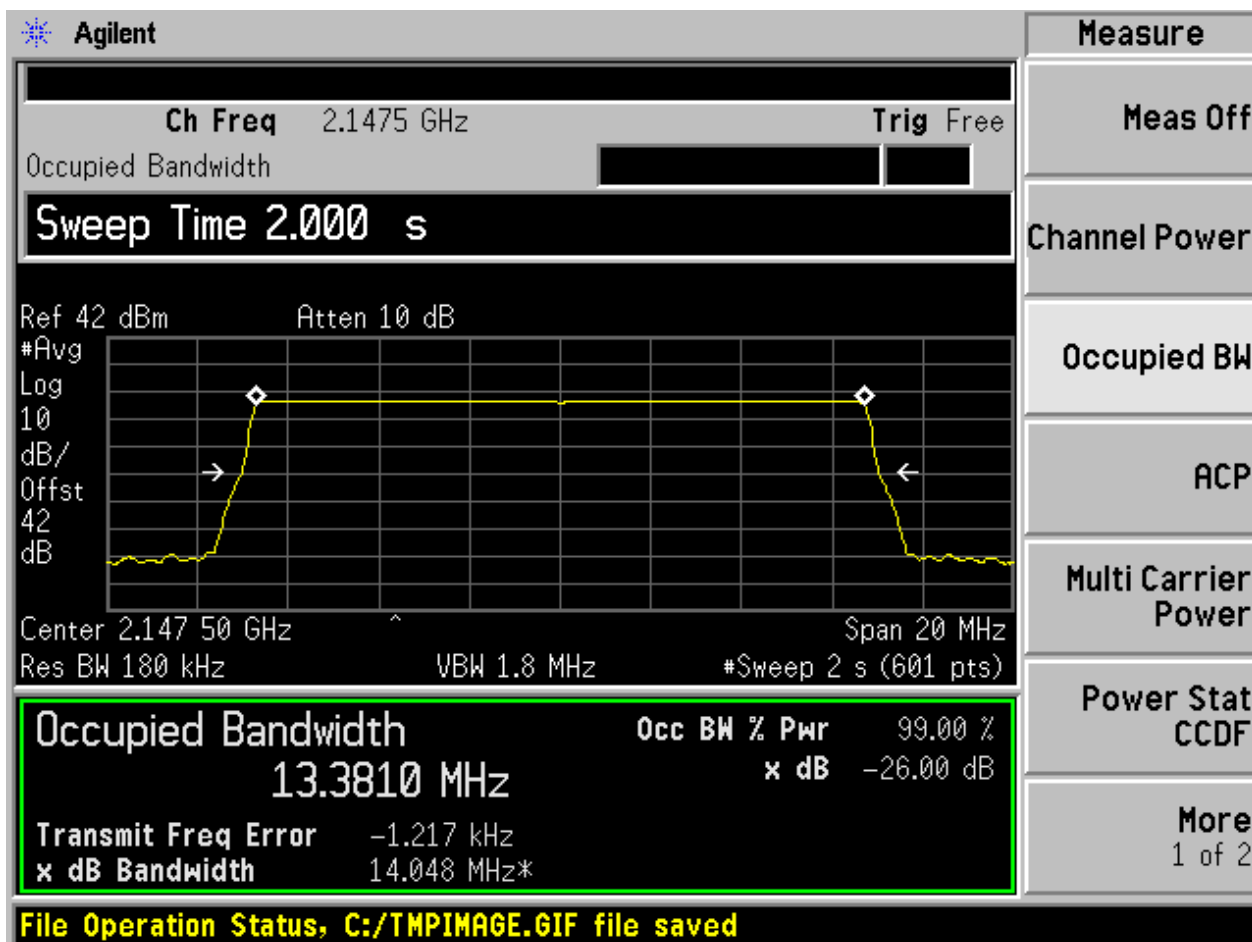
2.1.2.7 EUT Conf. TX_15M_B_TM1.1



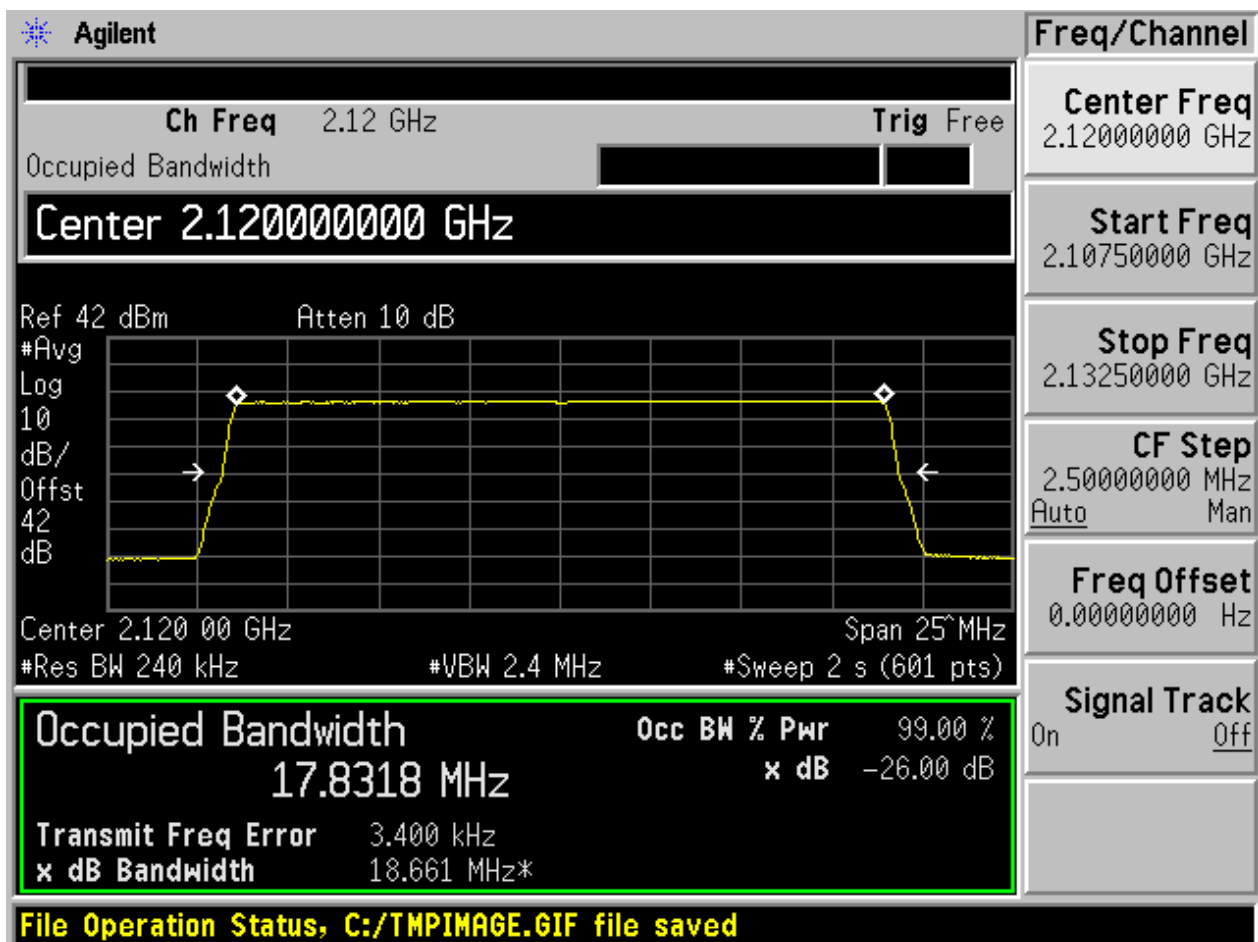
2.1.2.8 EUT Conf. TX_15M_M_TM1.1



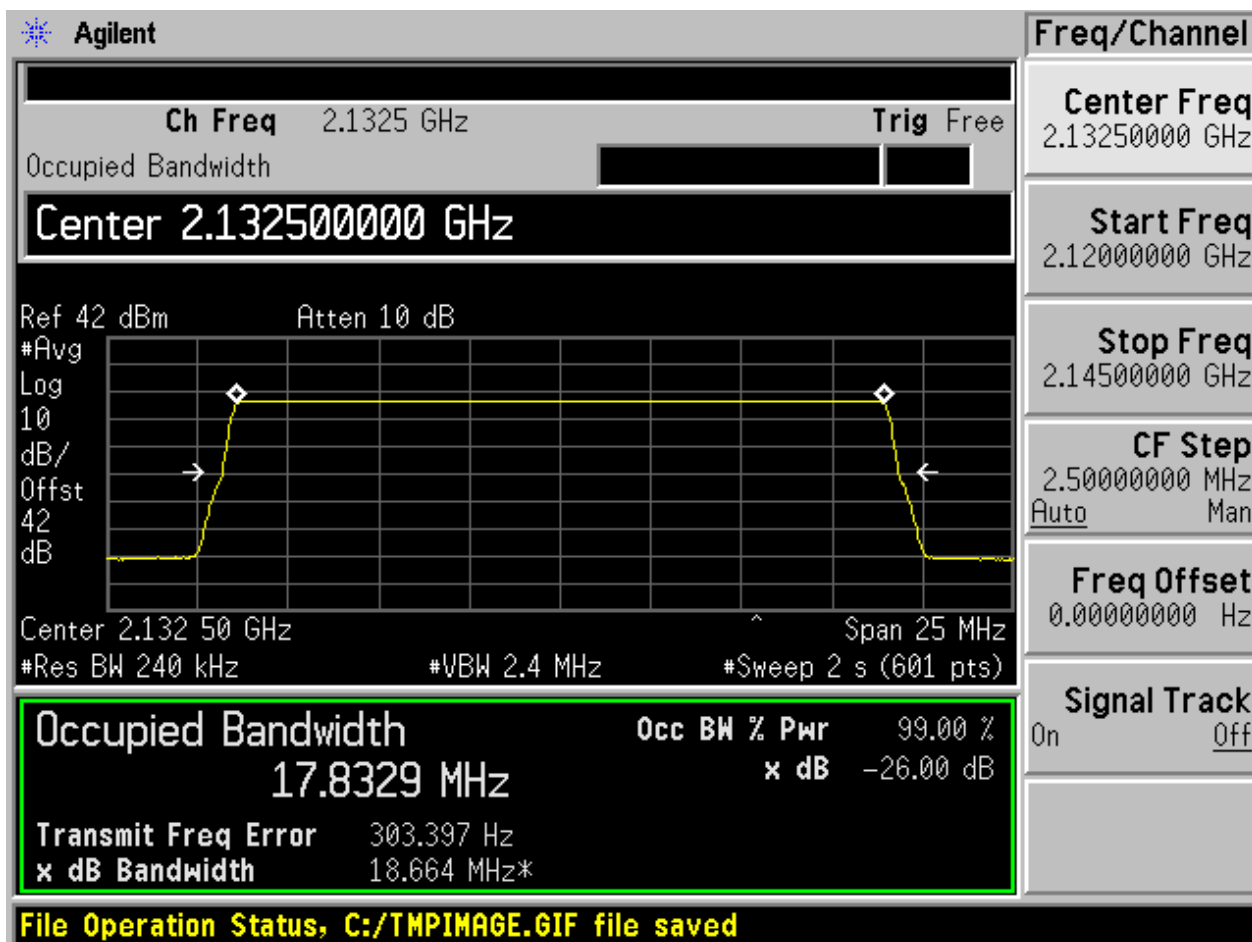
2.1.2.9 EUT Conf. TX_15M_T_TM1.1



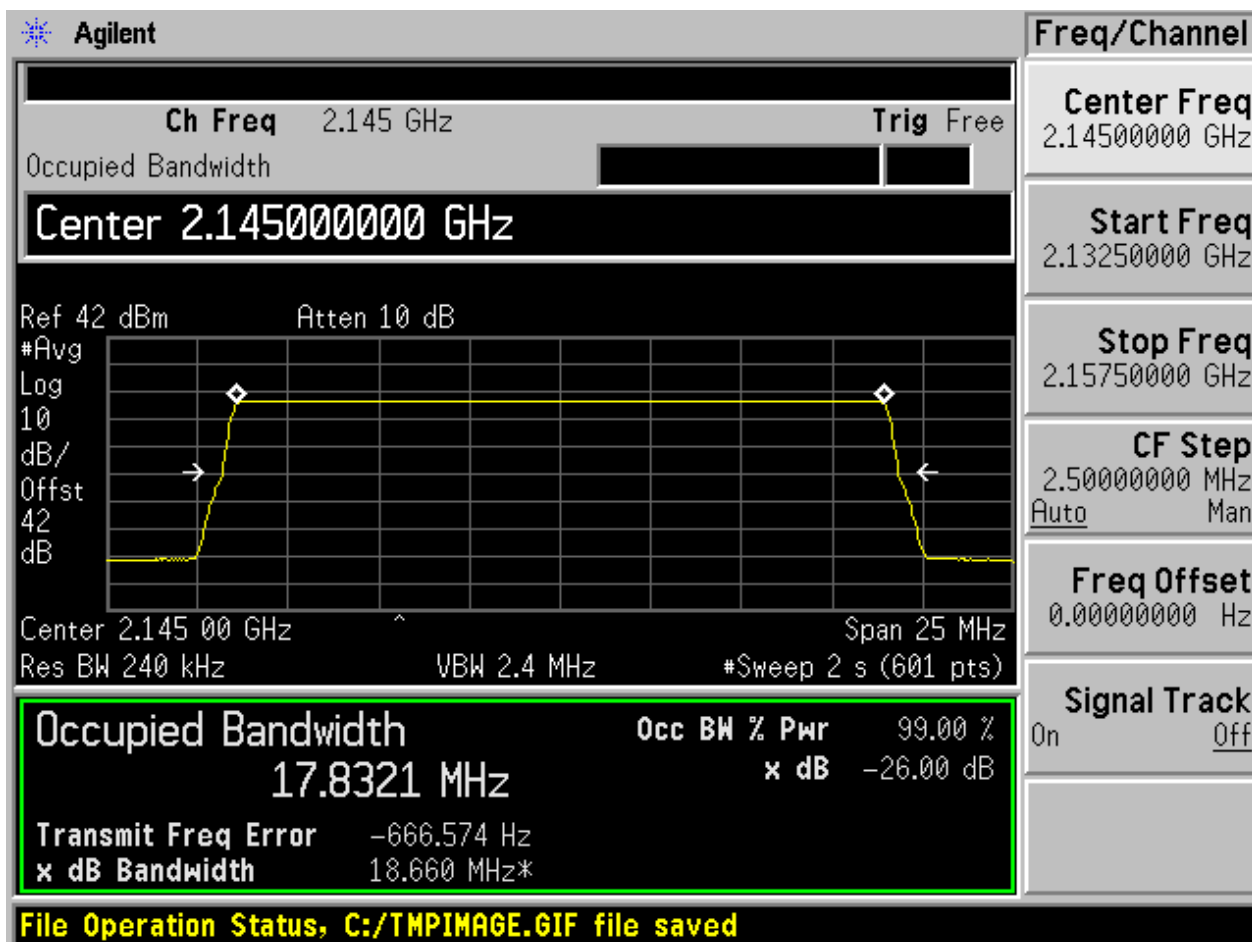
2.1.2.10 EUT Conf. TX_20M_B_TM1.1



2.1.2.11 EUT Conf. TX_20M_M_TM1.1



2.1.2.12 EUT Conf. TX_20M_T_TM1.1





Appendix D: Band Edges Compliance

1 Result Table

NOTE 1: The offset of measurement filter -3dB point may be considered when identifying the maximum emission for e.g. the CDMA, WCDMA, WiMAX, LTE systems.

NOTE 2: For the MIMO application, the test is performed at each antenna port with the limit requirement adjusted by antenna ports number (i.e. the -13 dBm limit is reduced to “-13 [dBm] - 10 *log(N) [dB]”, in which N denotes the antenna ports number used by MIMO application).

Port A:

EUT Conf.	Maximum Emission [dBm]	Verdict
EUT Conf. TX_5M_B_TM1.1	-31.49	Pass
EUT Conf. TX_5M_T_TM1.1	-31.49	Pass
EUT Conf. TX_10M_B_TM1.1	-29.03	Pass
EUT Conf. TX_10M_T_TM1.1	-29.41	Pass
EUT Conf. TX_15M_B_TM1.1	-23.99	Pass
EUT Conf. TX_15M_T_TM1.1	-24.10	Pass
EUT Conf. TX_20M_B_TM1.1	-27.59	Pass
EUT Conf. TX_20M_T_TM1.1	-28.09	Pass

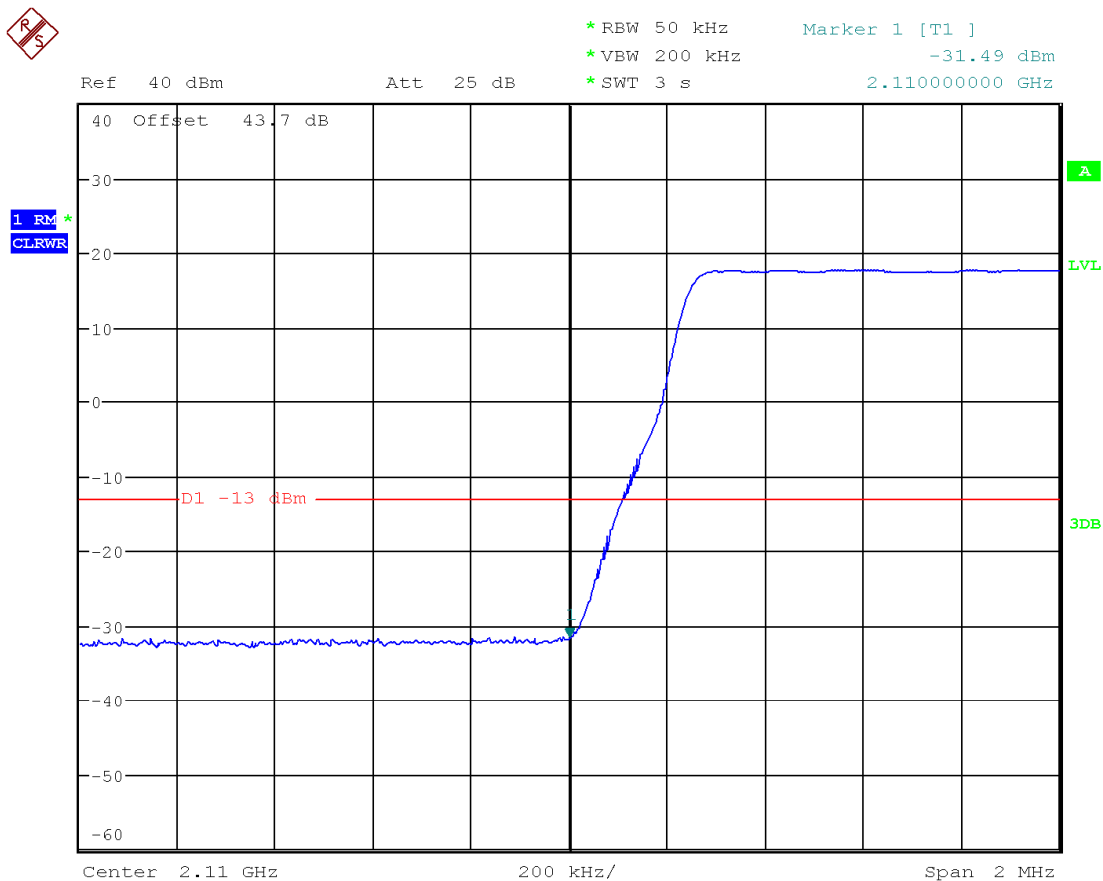
Port B:

EUT Conf.	Maximum Emission [dBm]	Verdict
EUT Conf. TX_5M_B_TM1.1	-33.79	Pass
EUT Conf. TX_5M_T_TM1.1	-33.67	Pass
EUT Conf. TX_10M_B_TM1.1	-33.94	Pass
EUT Conf. TX_10M_T_TM1.1	-33.72	Pass
EUT Conf. TX_15M_B_TM1.1	-27.55	Pass
EUT Conf. TX_15M_T_TM1.1	-27.57	Pass
EUT Conf. TX_20M_B_TM1.1	-38.84	Pass
EUT Conf. TX_20M_T_TM1.1	-36.82	Pass

2 Test Plot

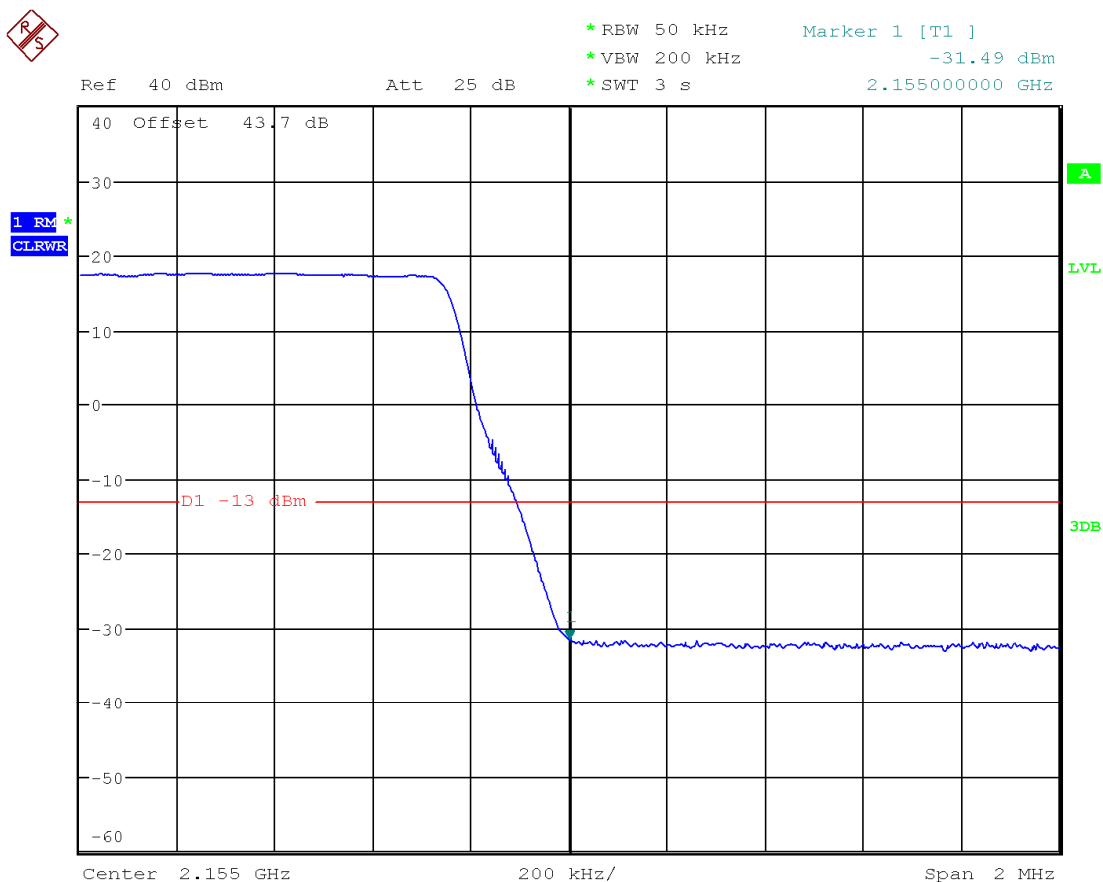
2.1 Port A

2.1.1 EUT Conf. TX_5M_B_TM1.1



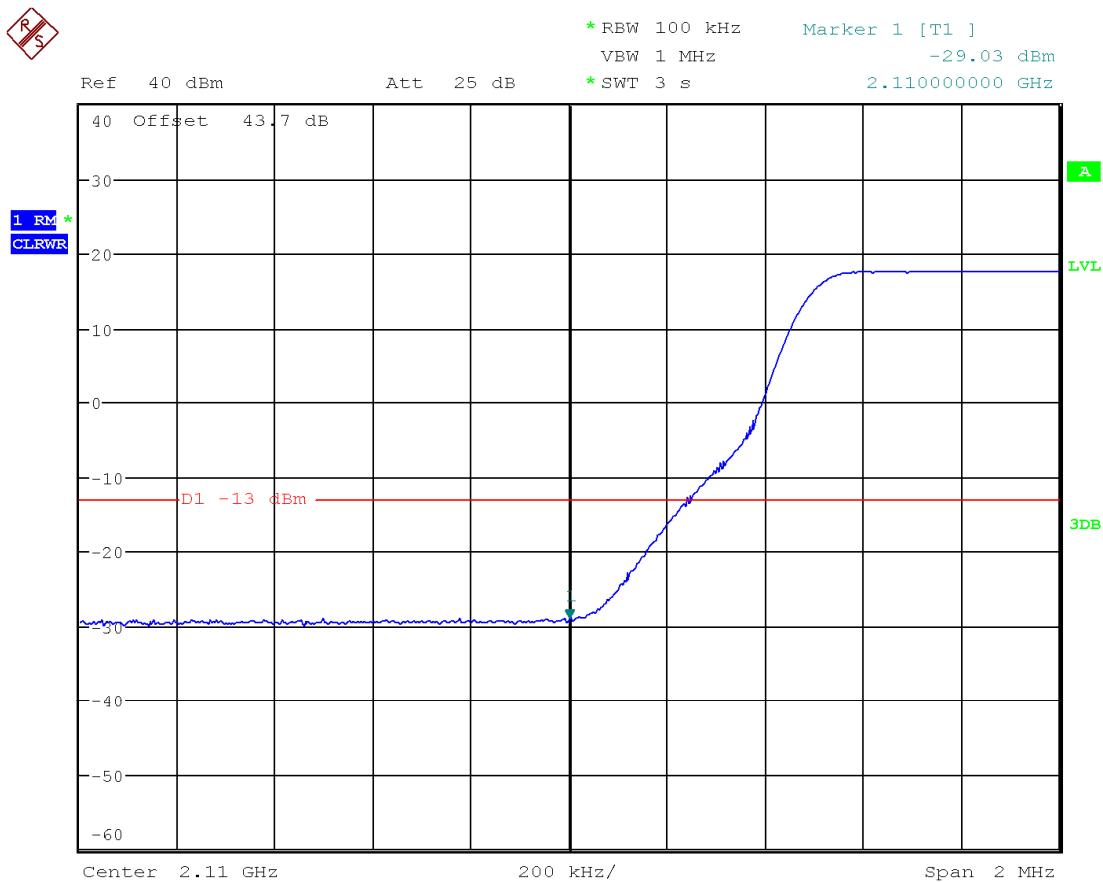
Date: 16.MAY.2012 20:49:00

2.1.2 EUT Conf. TX_5M_T_TM1.1



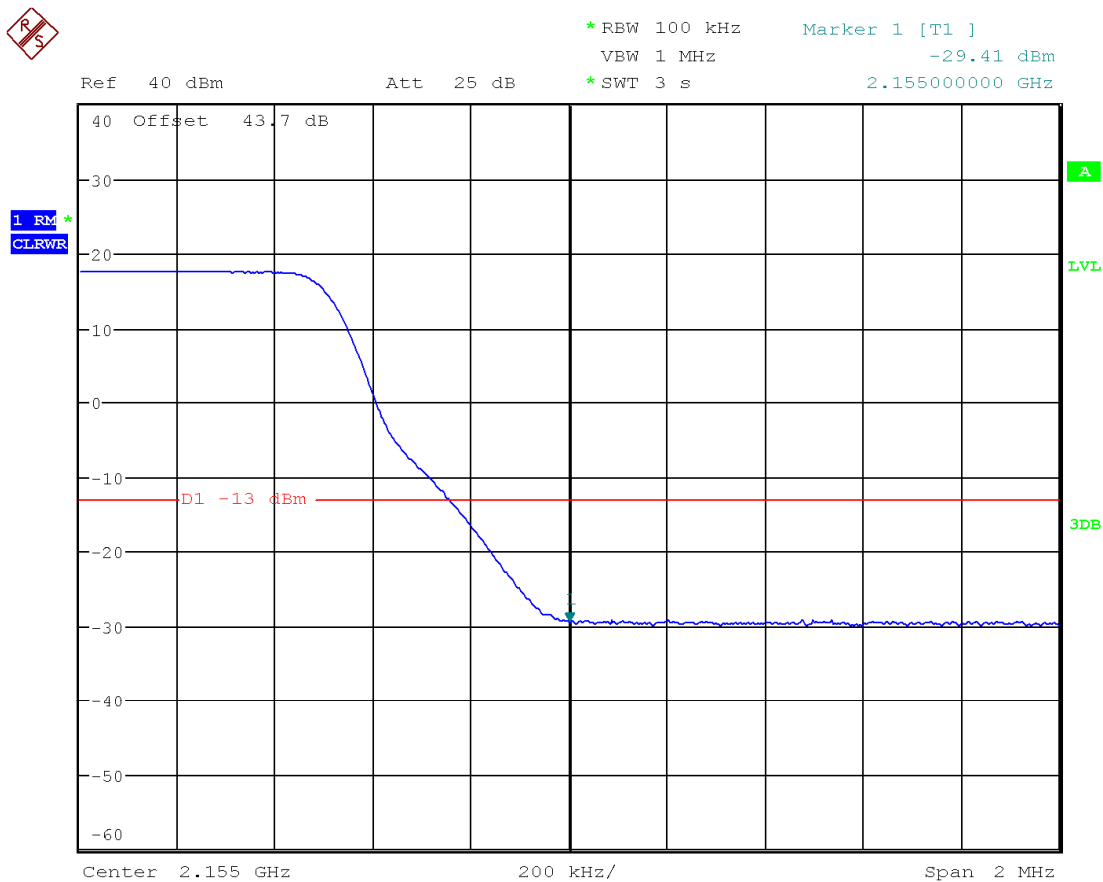
Date: 16.MAY.2012 21:02:20

2.1.3 EUT Conf. TX_10M_B_TM1.1

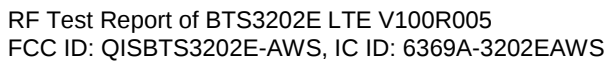


Date: 16.MAY.2012 21:05:31

2.1.4 EUT Conf. TX_10M_T_TM1.1

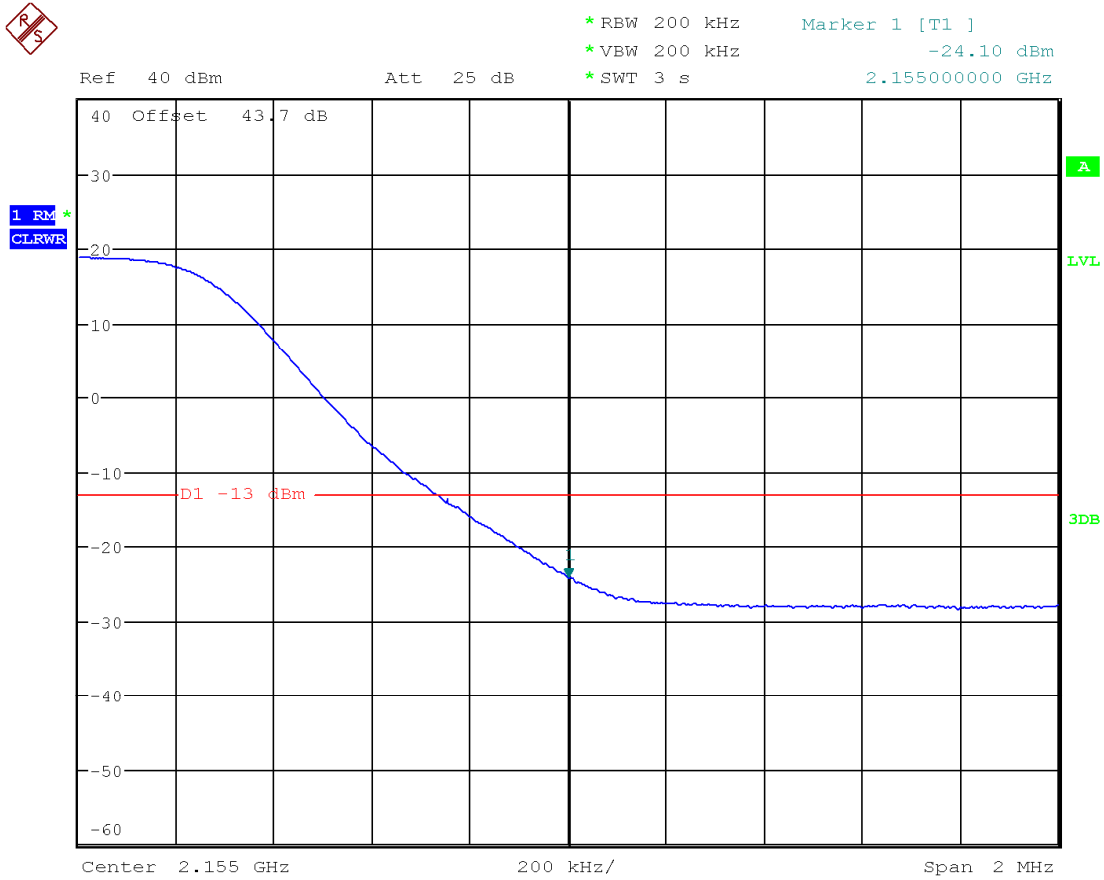


Date: 16.MAY.2012 21:23:03



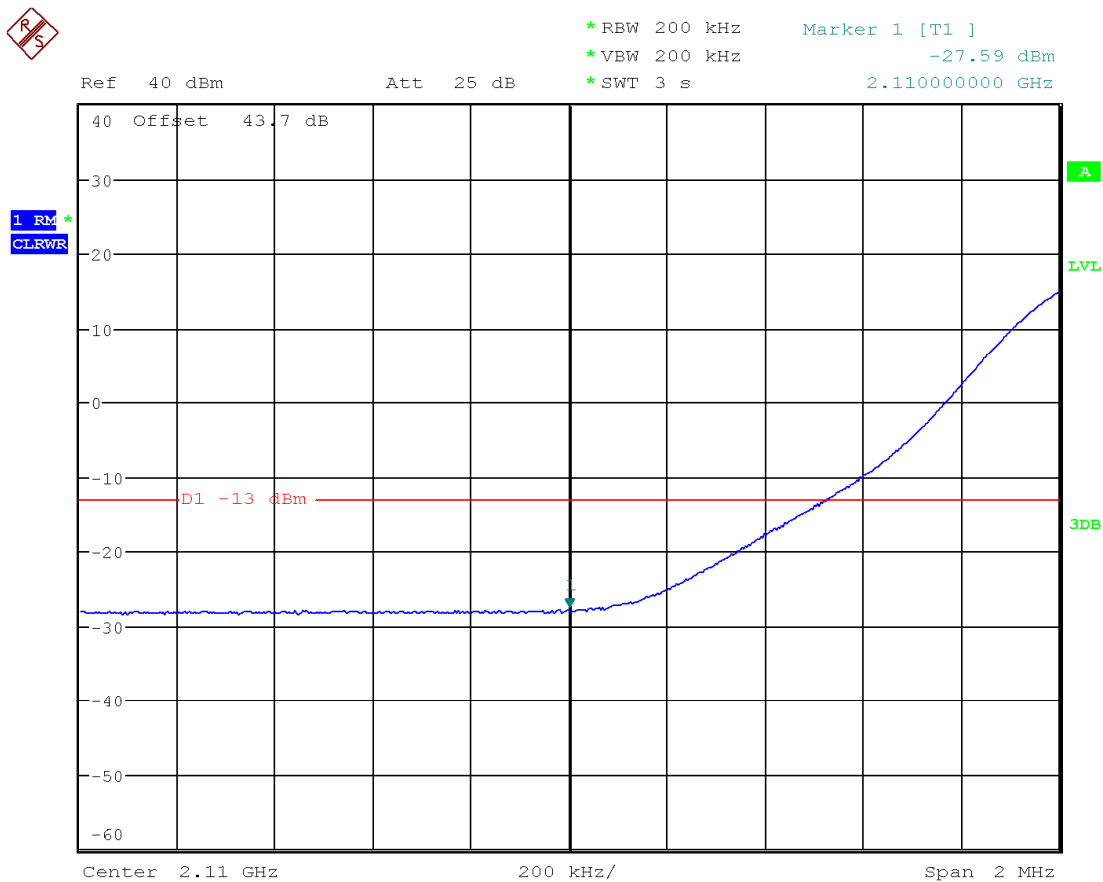
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2.1.6 EUT Conf. TX_15M_T_TM1.1



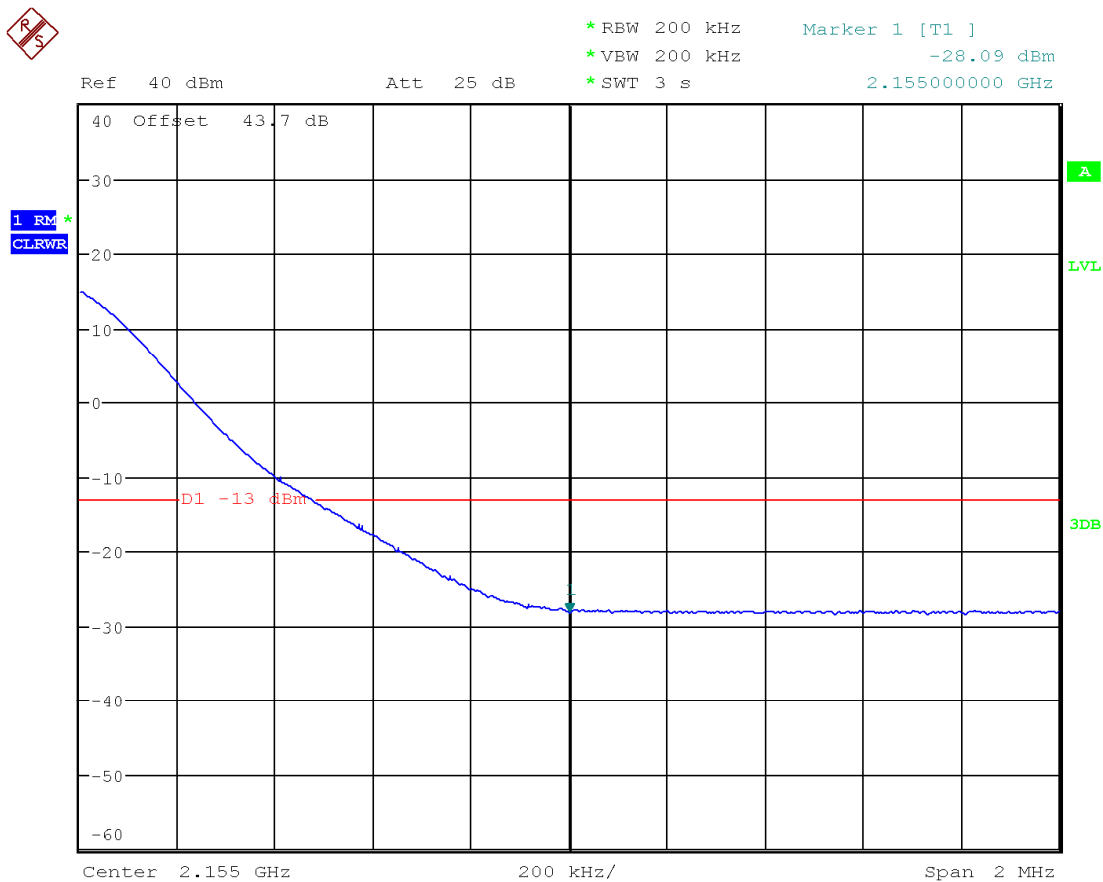
Date: 16.MAY.2012 21:43:26

2.1.7 EUT Conf. TX_20M_B_TM1.1



Date: 16.MAY.2012 21:49:47

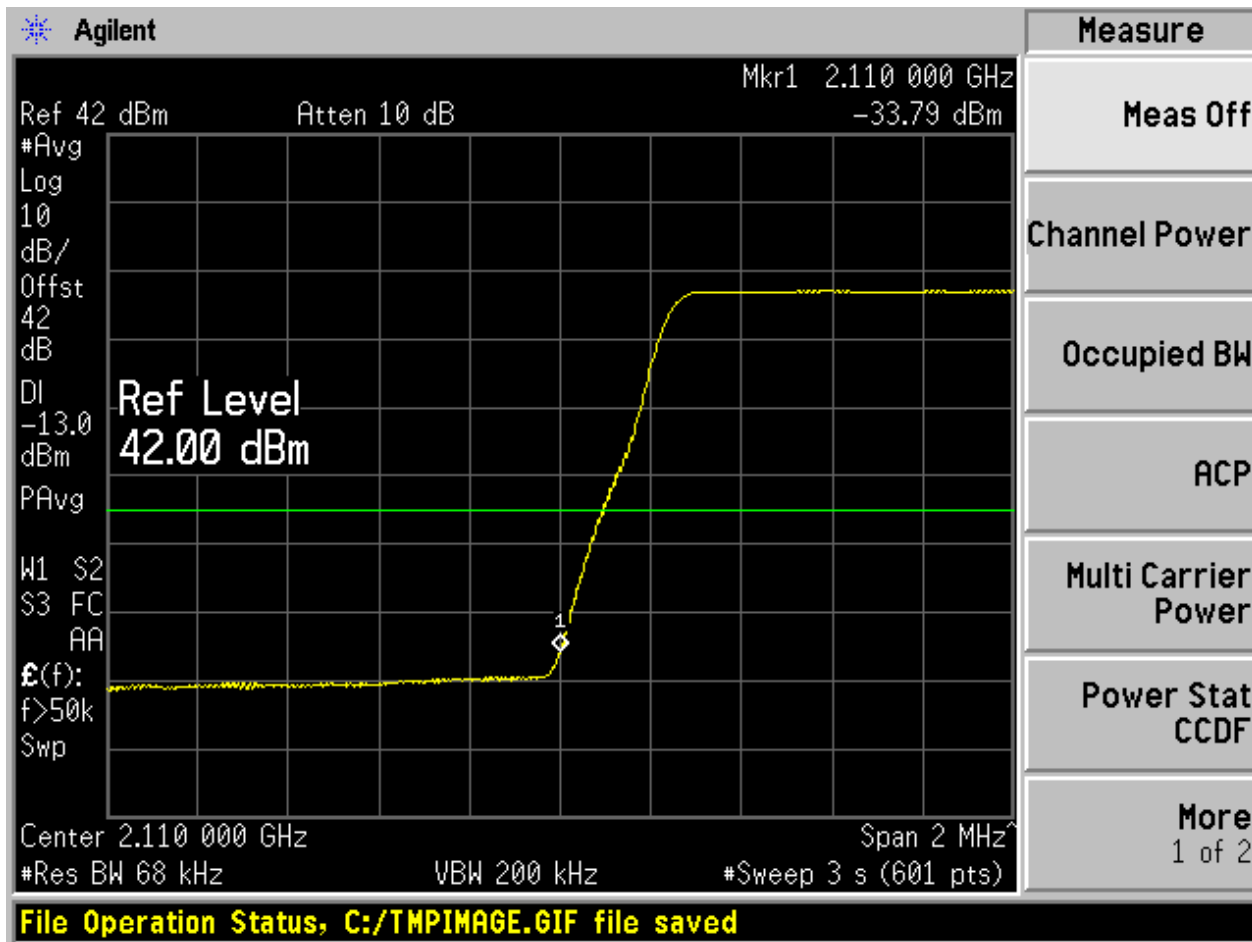
2.1.8 EUT Conf. TX_20M_T_TM1.1



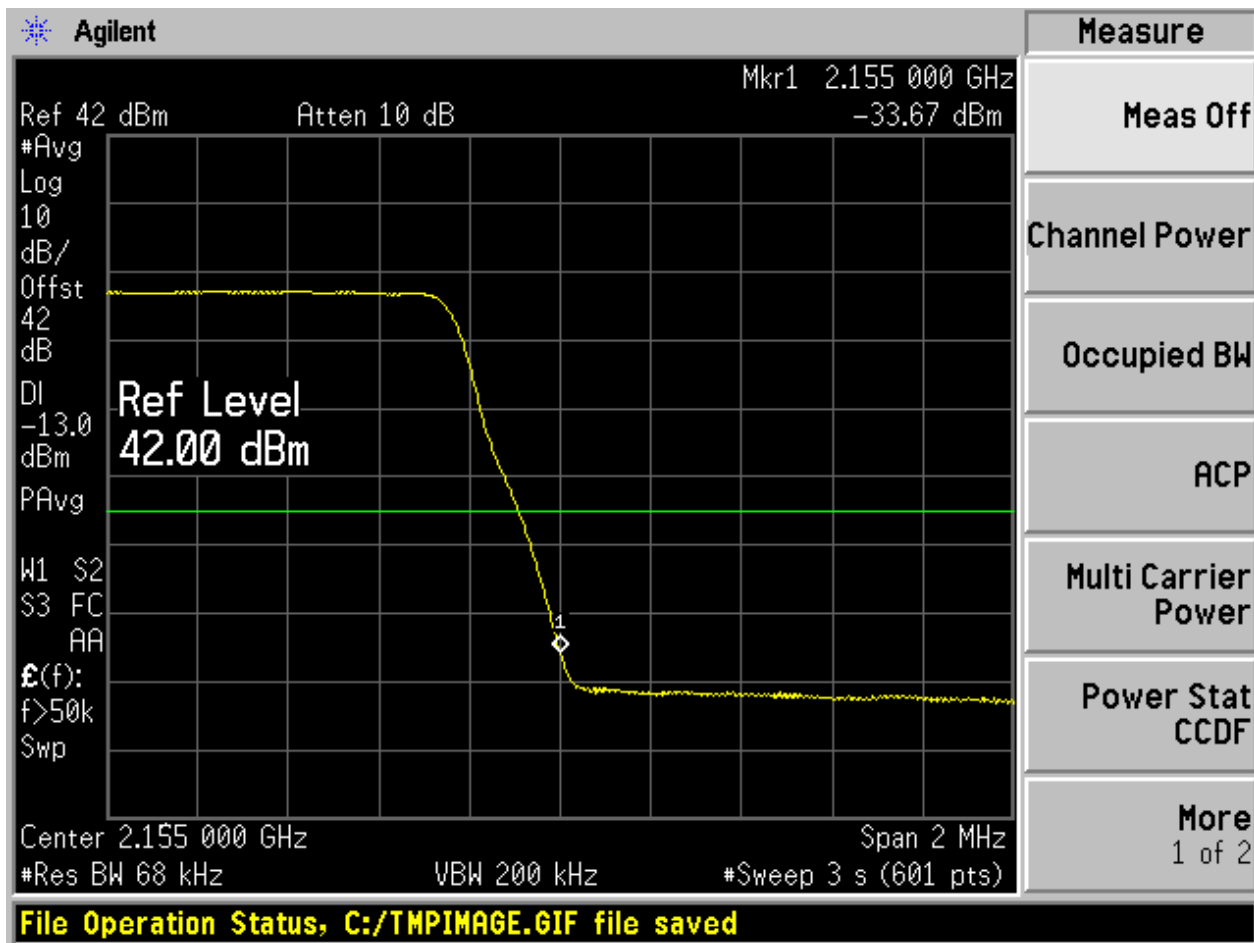
Date: 16.MAY.2012 22:03:56

2.2 Port B

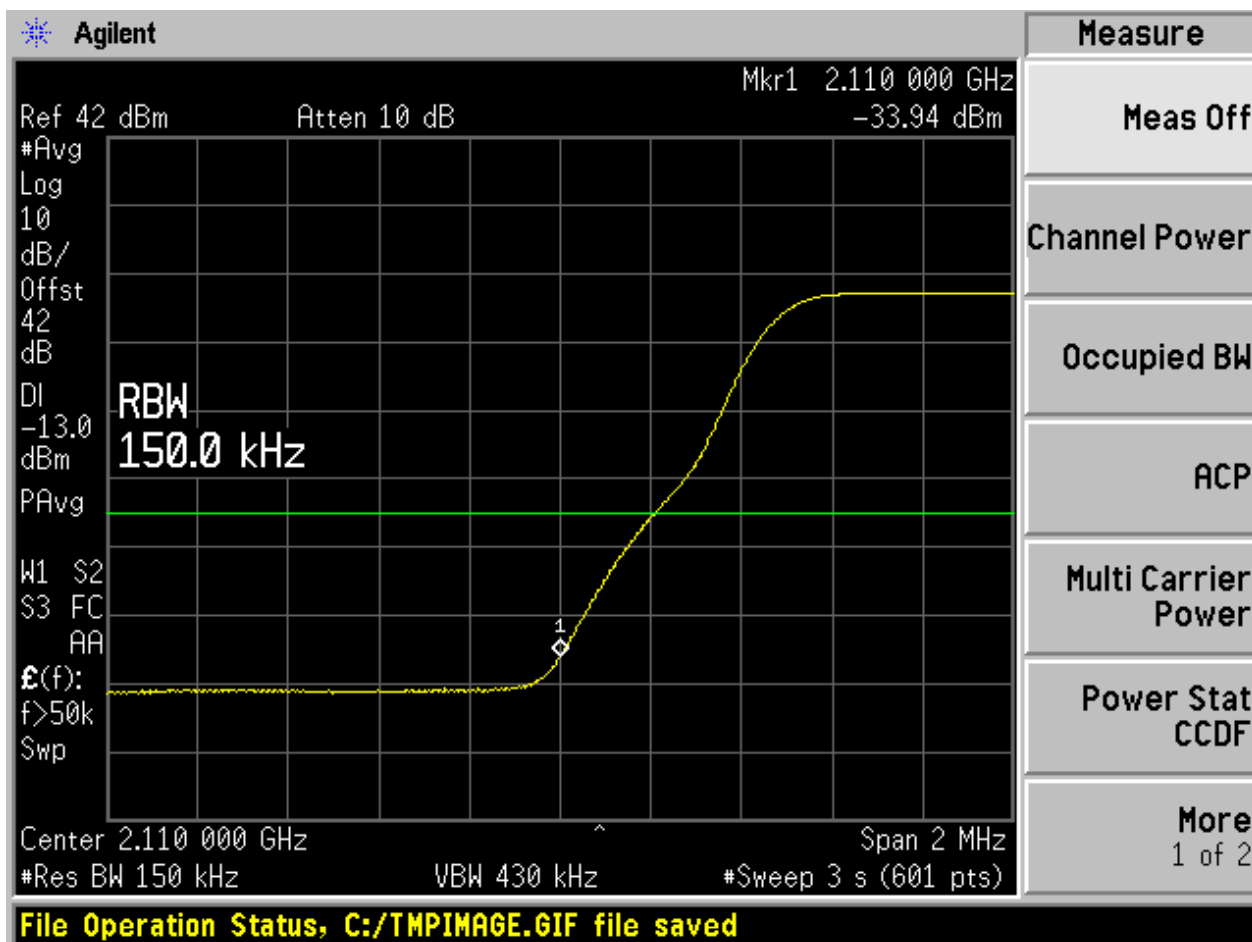
2.2.1 EUT Conf. TX_5M_B_TM1.1



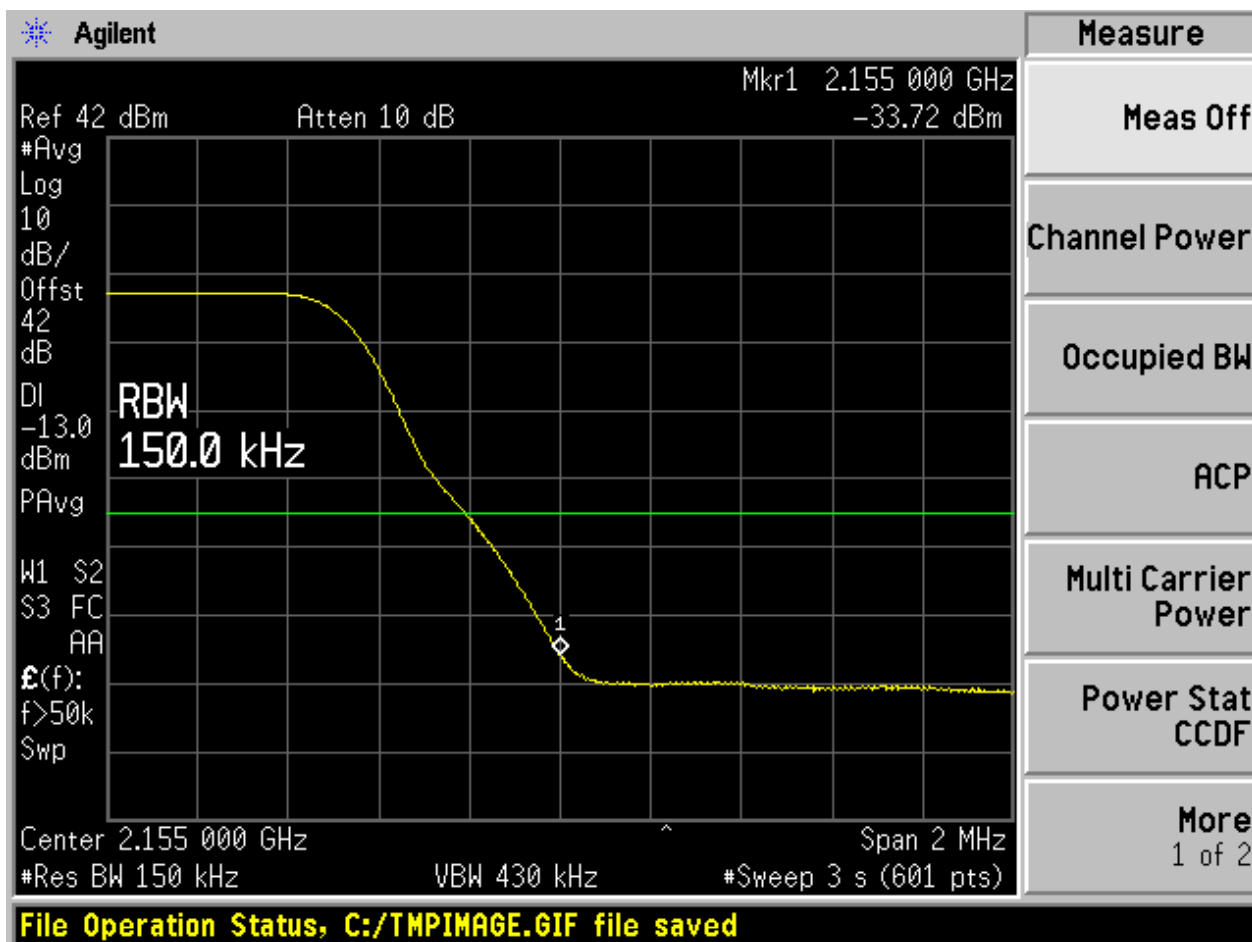
2.2.2 EUT Conf. TX_5M_T_TM1.1



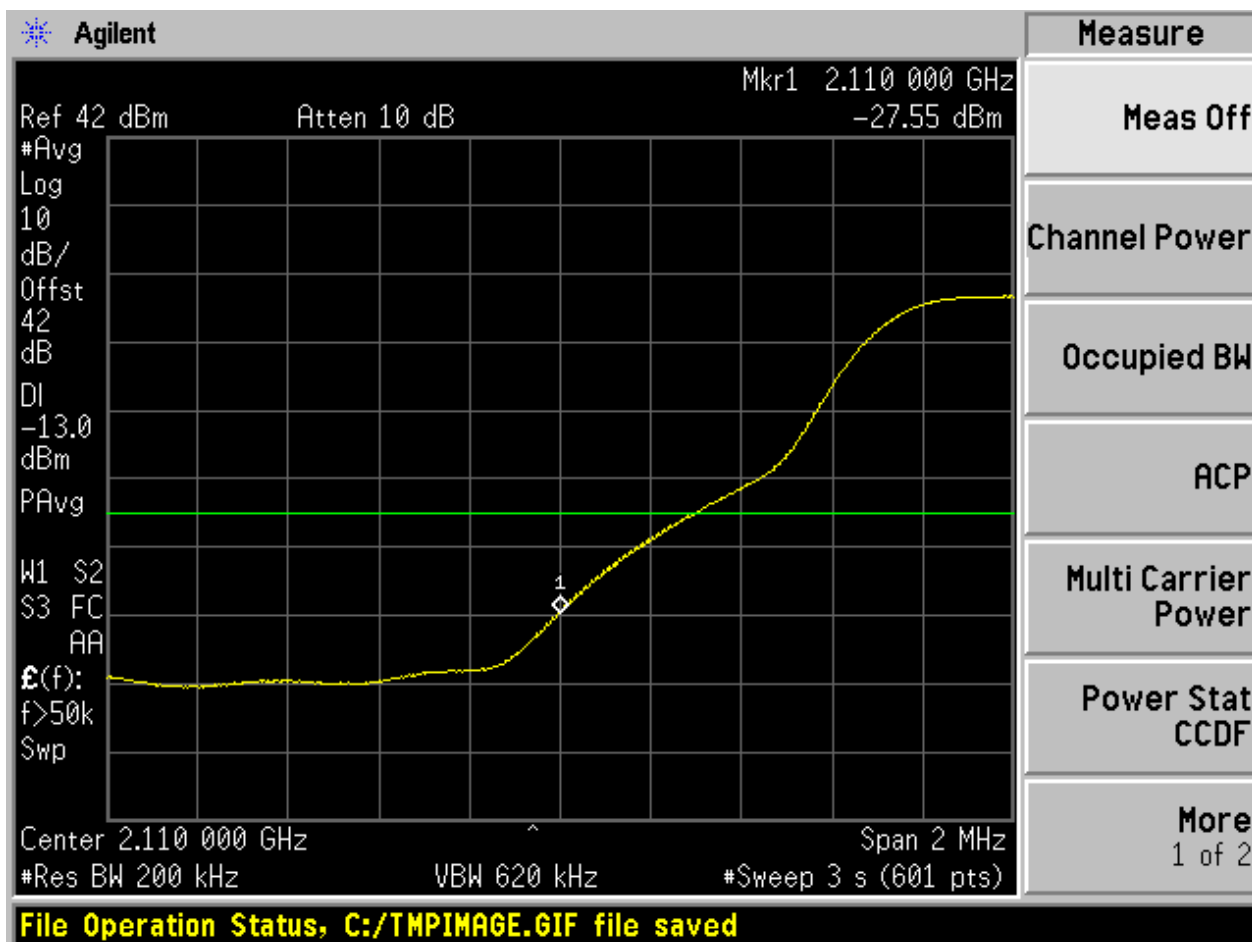
2.2.3 EUT Conf. TX_10M_B_TM1.1



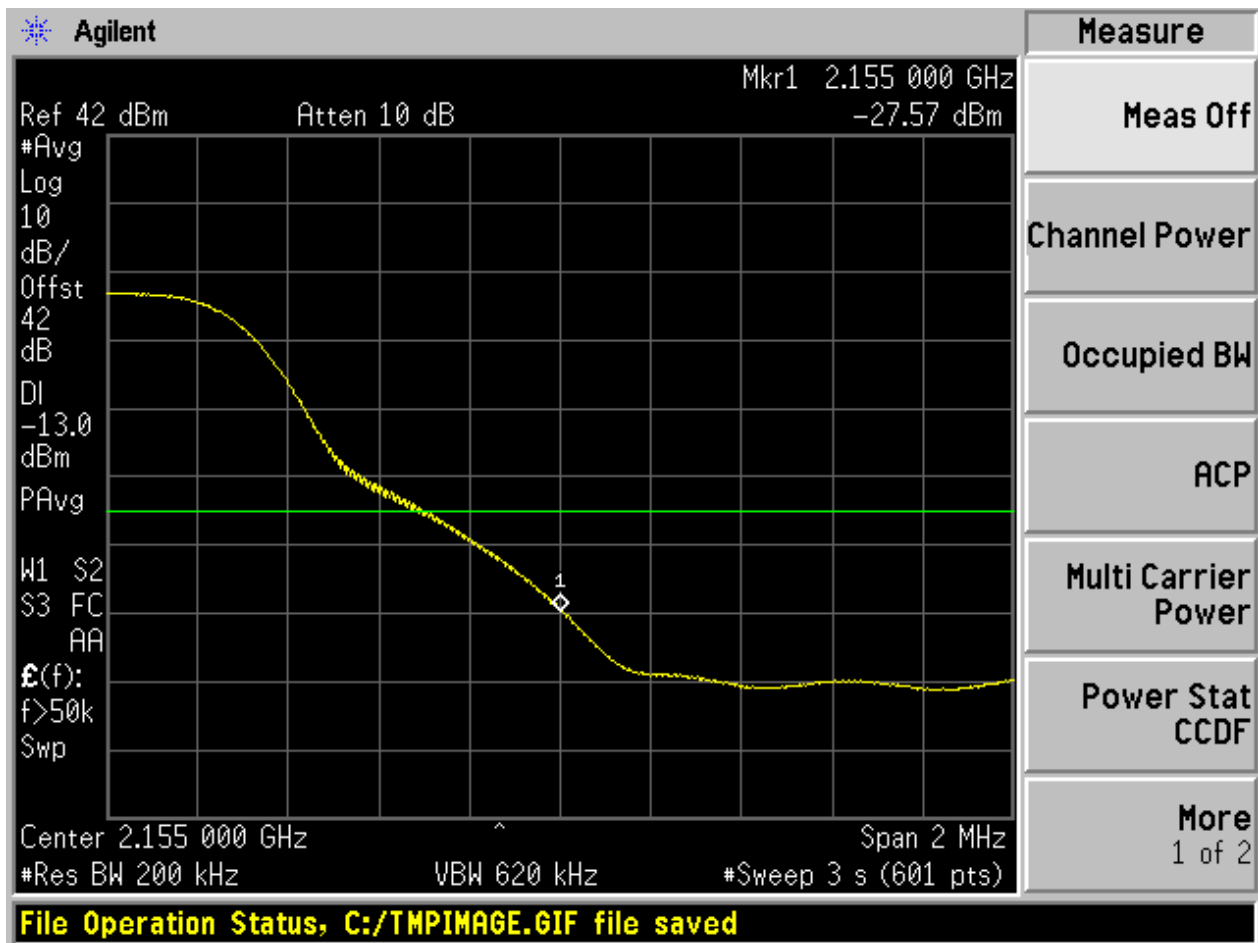
2.2.4 EUT Conf. TX_10M_T_TM1.1



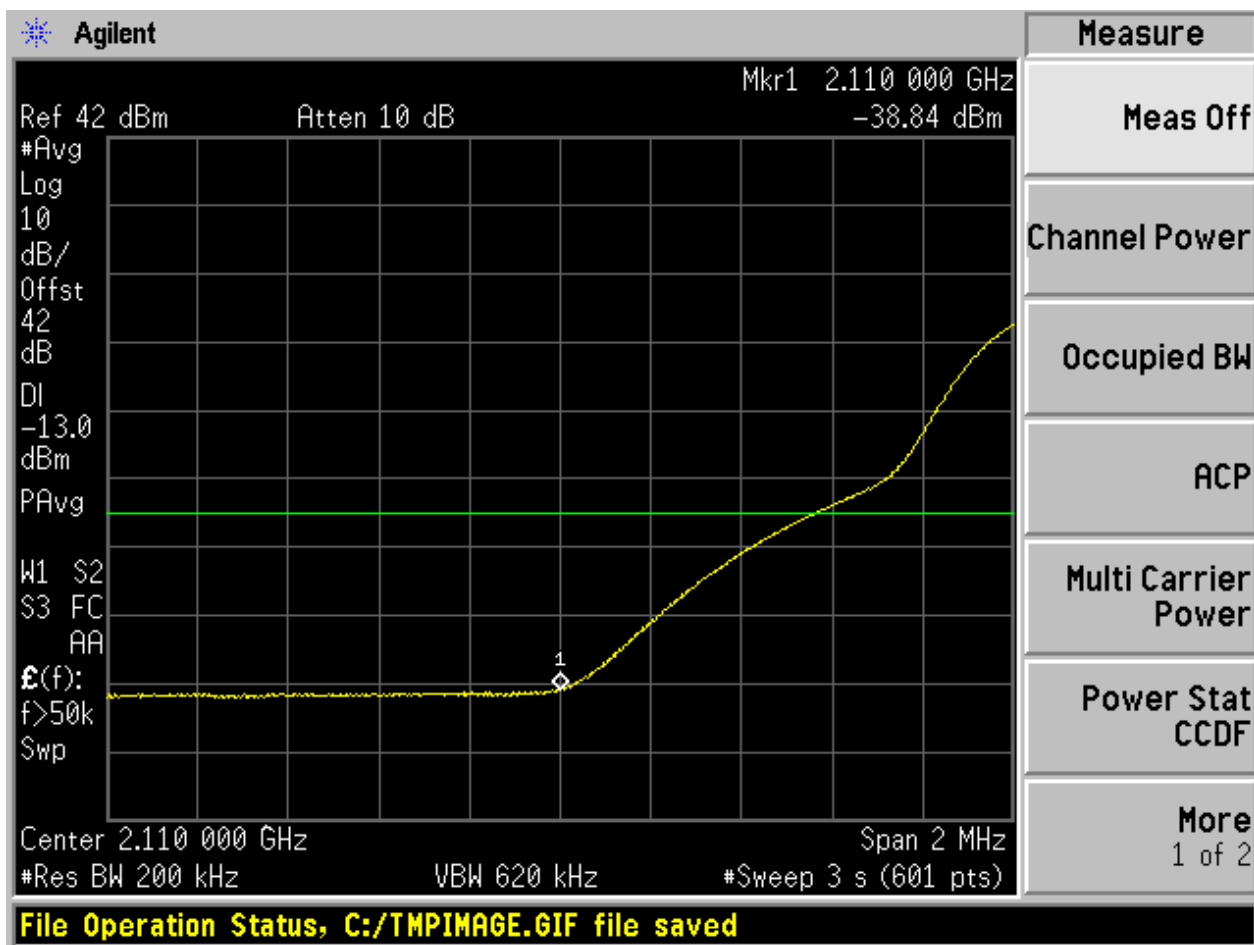
2.2.5 EUT Conf. TX_15M_B_TM1.1



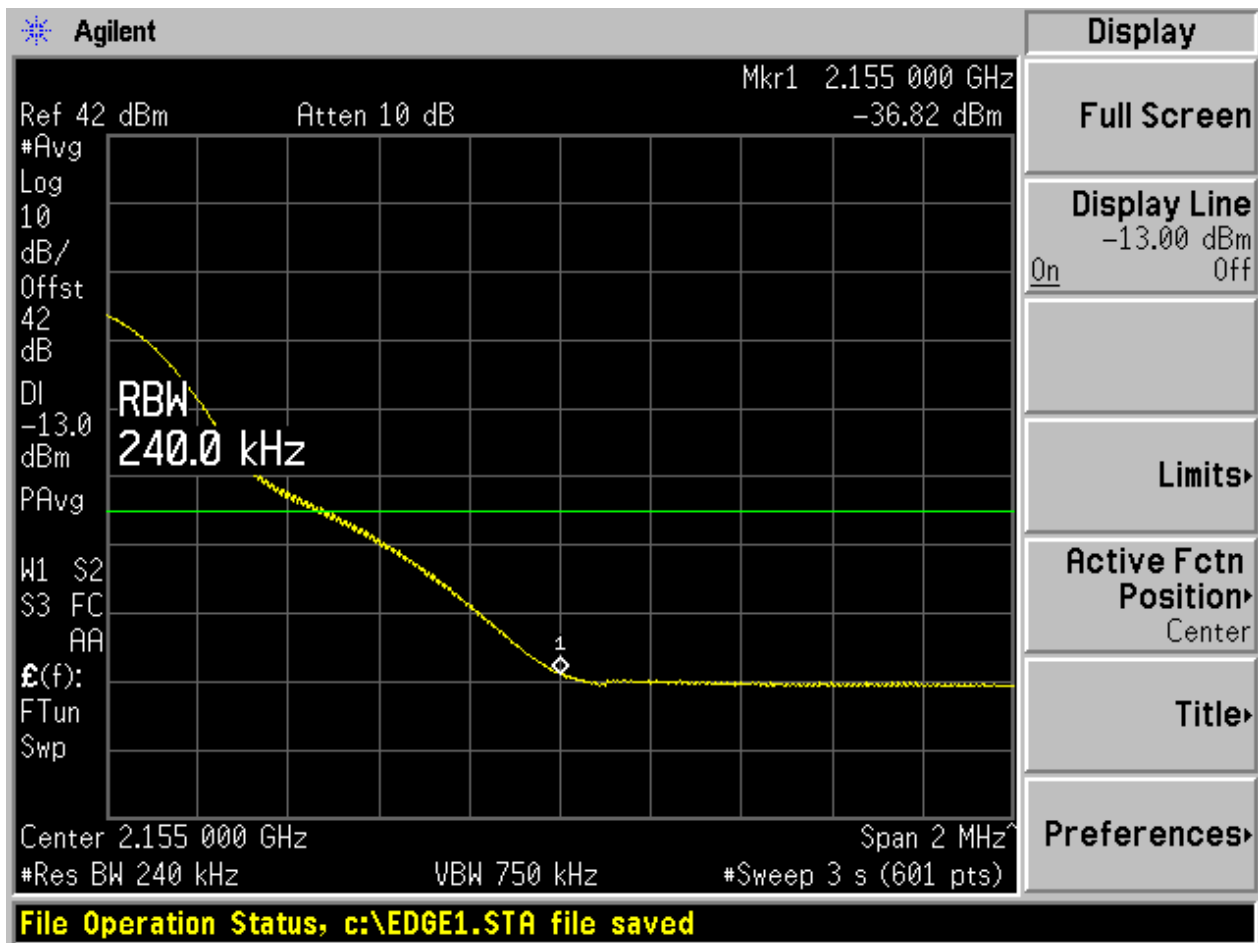
2.2.6 EUT Conf. TX_15M_T_TM1.1



2.2.7 EUT Conf. TX_20M_B_TM1.1



2.2.8 EUT Conf. TX_20M_T_TM1.1





Appendix E: Spurious Emission at Antenna Terminals

1 Result Table

NOTE 1: For the MIMO application, the test is performed at each antenna port with the limit requirement adjusted by antenna ports number (i.e. the -13 dBm limit is reduced to “-13 [dBm] - 10 *log(N) [dB]”, in which N denotes the antenna ports number used by MIMO application).

NOTE 2: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the “Measurement Points = k * (Span / RBW)” with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB. The setting of Measurement Points for all tests in this Appendix is as follow:

Port	Start Frequency [MHz]	Stop Frequency [MHz]	Measurement Points
Port A	0.009	0.15	30001
	0.15	30	30001
	30	2000	30001
	2000	2500	30001
	2500	3000	30001
	3000	26500	120004
Port B	0.009	0.15	30001
	0.15	30	30001
	30	1500	30001
	1500	3000	30001
	3000	26500	120004

Port A:

EUT Conf.	Maximum Emission [dBm]	Verdict
EUT Conf. TX_5M_B_TM1.1	<-16	Pass
EUT Conf. TX_5M_M_TM1.1	<-16	Pass
EUT Conf. TX_5M_T_TM1.1	<-16	Pass
EUT Conf. TX_10M_B_TM1.1	<-16	Pass
EUT Conf. TX_10M_M_TM1.1	<-16	Pass
EUT Conf. TX_10M_T_TM1.1	<-16	Pass
EUT Conf. TX_15M_B_TM1.1	<-16	Pass
EUT Conf. TX_15M_M_TM1.1	<-16	Pass
EUT Conf. TX_15M_T_TM1.1	<-16	Pass
EUT Conf. TX_20M_B_TM1.1	<-16	Pass
EUT Conf. TX_20M_M_TM1.1	<-16	Pass
EUT Conf. TX_20M_T_TM1.1	<-16	Pass

Port B:

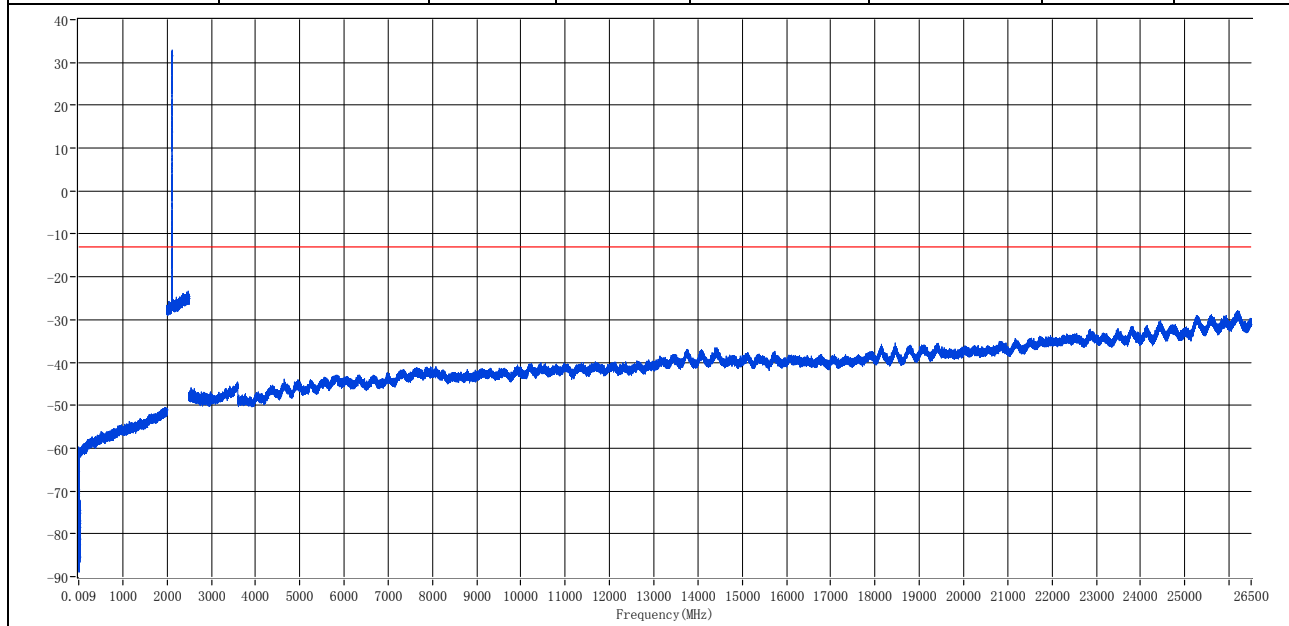
EUT Conf.	Maximum Emission [dBm]	Verdict
EUT Conf. TX_5M_B_TM1.1	<-16	Pass
EUT Conf. TX_5M_M_TM1.1	<-16	Pass
EUT Conf. TX_5M_T_TM1.1	<-16	Pass
EUT Conf. TX_10M_B_TM1.1	<-16	Pass
EUT Conf. TX_10M_M_TM1.1	<-16	Pass
EUT Conf. TX_10M_T_TM1.1	<-16	Pass
EUT Conf. TX_15M_B_TM1.1	<-16	Pass
EUT Conf. TX_15M_M_TM1.1	<-16	Pass
EUT Conf. TX_15M_T_TM1.1	<-16	Pass
EUT Conf. TX_20M_B_TM1.1	<-16	Pass
EUT Conf. TX_20M_M_TM1.1	<-16	Pass
EUT Conf. TX_20M_T_TM1.1	<-16	Pass

2 Test Plot

2.1 Port A

2.1.1 EUT Conf. TX_5M_B_TM1.1

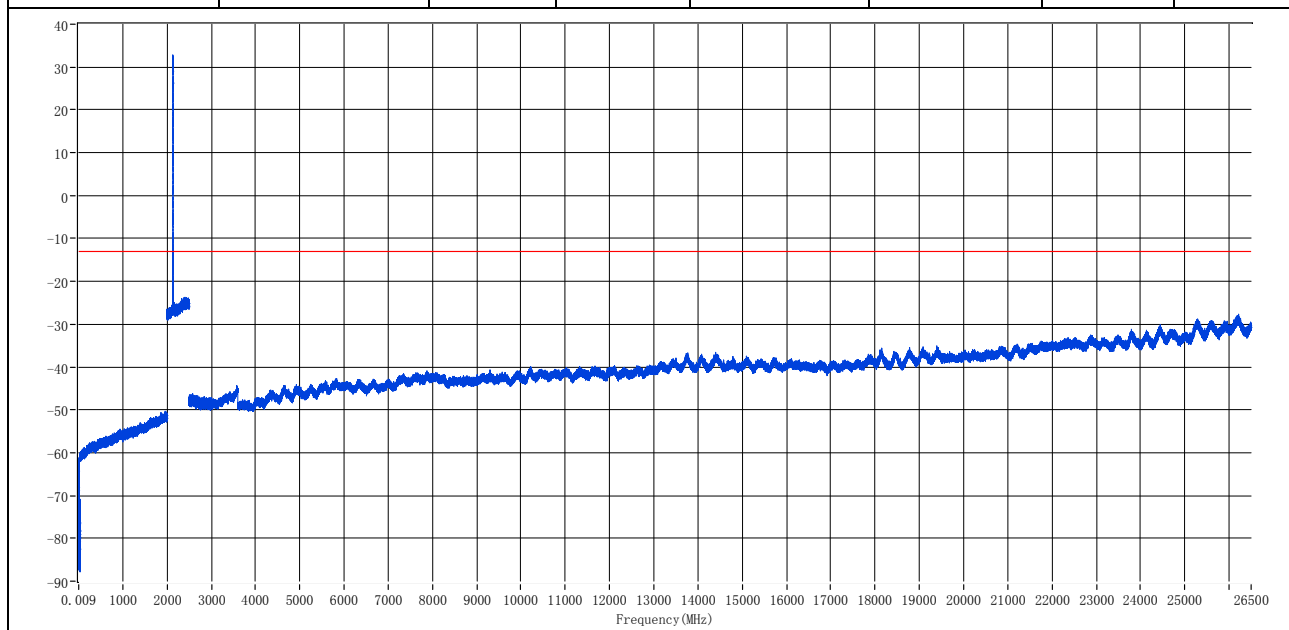
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict
0.009	0.15	0.001	RMS	34.544 k	-59.75	-13.00	Pass
0.15	30	0.01	RMS	211.690 k	-61.82	-13.00	Pass
30	2000	1	RMS	1.965 G	-50.53	-13.00	Pass
2000	2500	1	RMS	2.114 G	32.89	-13.00	Fail
2500	3000	1	RMS	2.542 G	-45.91	-13.00	Pass
3000	26500	1	RMS	26.196 G	-27.89	-13.00	Pass



NOTE: The failed emission is the fundamental frequency, which should be exempted.

2.1.2 EUT Conf. TX_5M_M_TM1.1

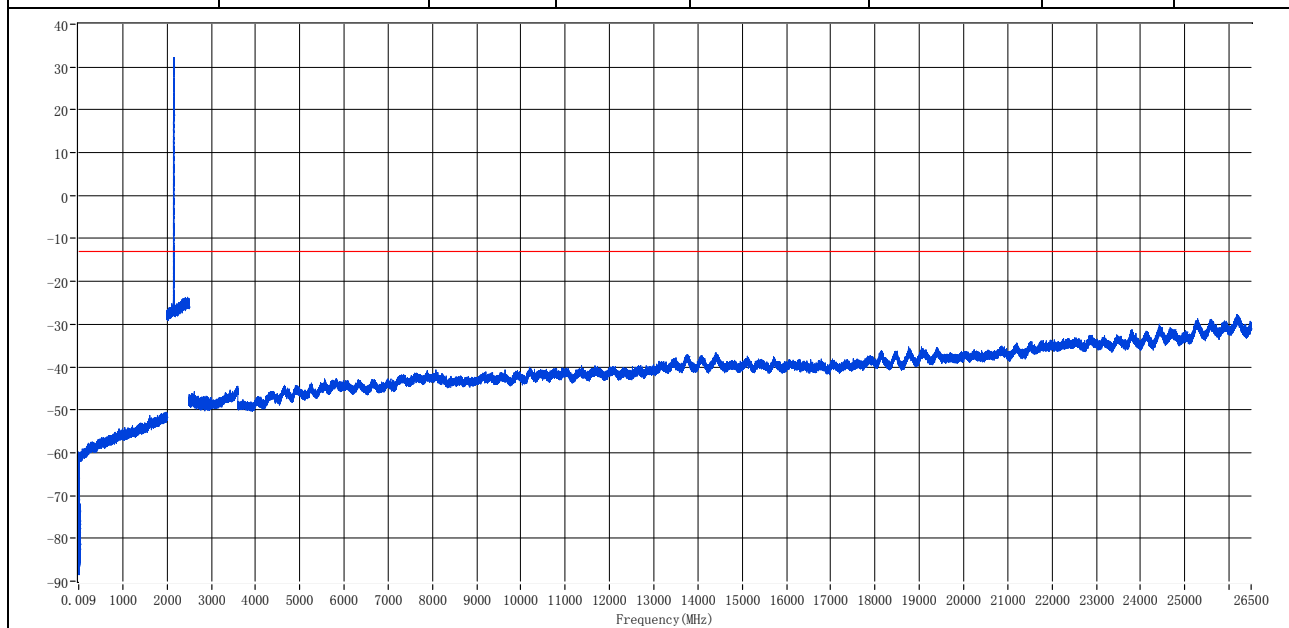
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict
0.009	0.15	0.001	RMS	34.389 k	-61.22	-13.00	Pass
0.15	30	0.01	RMS	153.980 k	-61.56	-13.00	Pass
30	2000	1	RMS	1.958 G	-50.29	-13.00	Pass
2000	2500	1	RMS	2.133 G	32.84	-13.00	Fail
2500	3000	1	RMS	2.577 G	-46.20	-13.00	Pass
3000	26500	1	RMS	26.217 G	-27.71	-13.00	Pass



NOTE: The failed emission is the fundamental frequency, which should be exempted.

2.1.3 EUT Conf. TX_5M_T_TM1.1

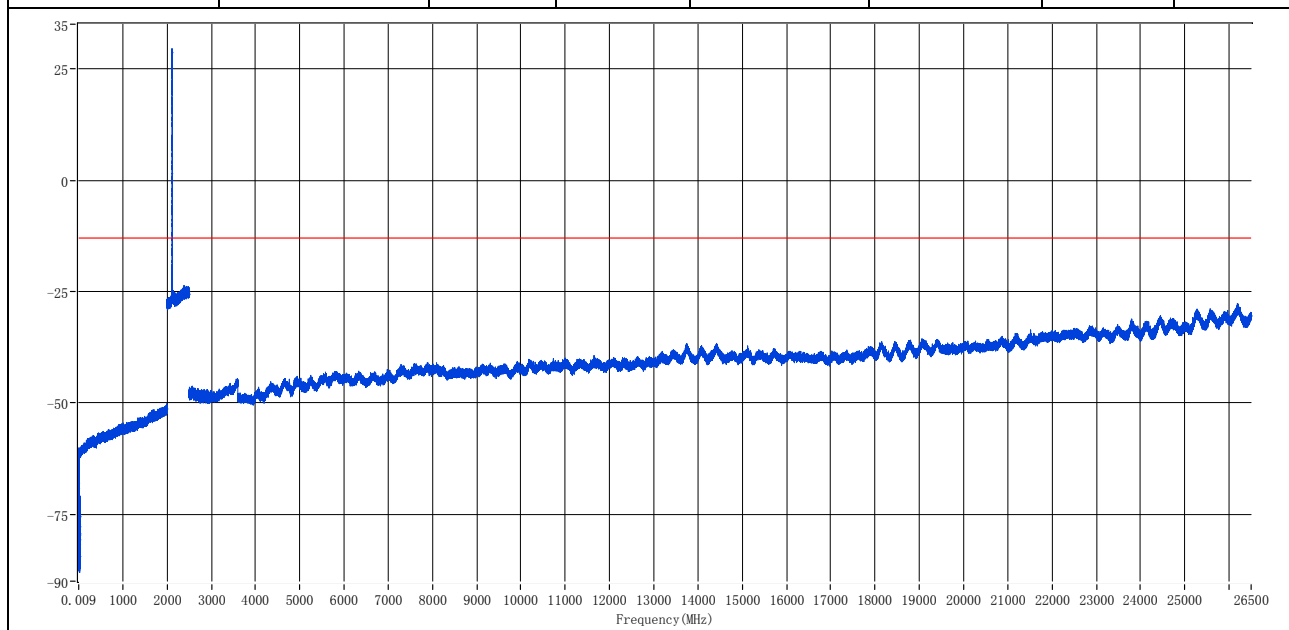
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict
0.009	0.15	0.001	RMS	34.455 k	-59.91	-13.00	Pass
0.15	30	0.01	RMS	253.480 k	-61.74	-13.00	Pass
30	2000	1	RMS	1.977 G	-50.56	-13.00	Pass
2000	2500	1	RMS	2.153 G	32.25	-13.00	Fail
2500	3000	1	RMS	2.615 G	-45.75	-13.00	Pass
3000	26500	1	RMS	26.176 G	-27.75	-13.00	Pass



NOTE: The failed emission is the fundamental frequency, which should be exempted.

2.1.4 EUT Conf. TX_10M_B_TM1.1

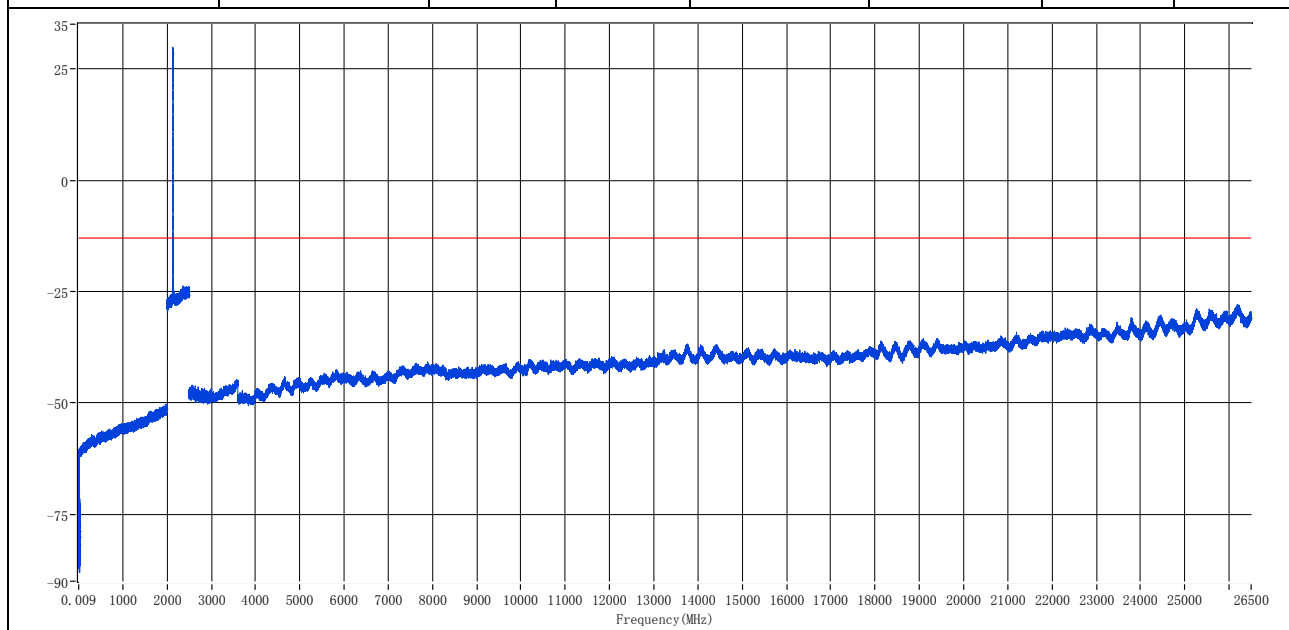
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict
0.009	0.15	0.001	RMS	34.657 k	-60.14	-13.00	Pass
0.15	30	0.01	RMS	178.855 k	-61.58	-13.00	Pass
30	2000	1	RMS	1.995 G	-50.17	-13.00	Pass
2000	2500	1	RMS	2.111 G	29.49	-13.00	Fail
2500	3000	1	RMS	2.568 G	-46.23	-13.00	Pass
3000	26500	1	RMS	26.186 G	-27.73	-13.00	Pass



NOTE: The failed emission is the fundamental frequency, which should be exempted.

2.1.5 EUT Conf. TX_10M_M_TM1.1

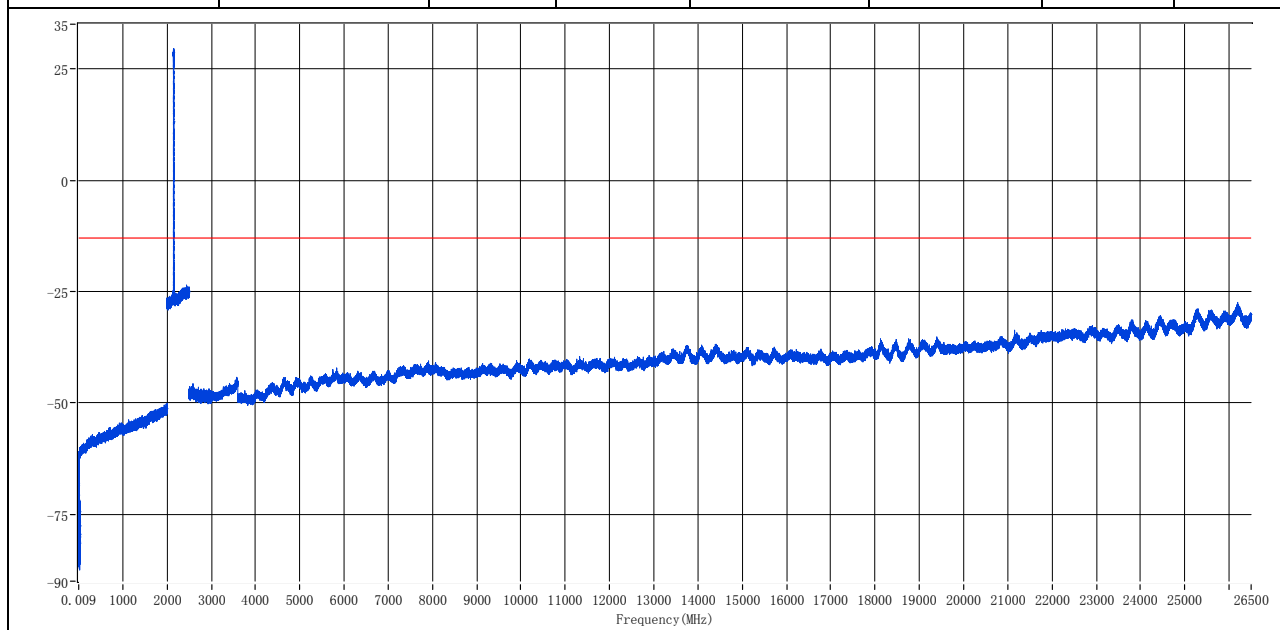
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict
0.009	0.15	0.001	RMS	34.136 k	-60.38	-13.00	Pass
0.15	30	0.01	RMS	217.660 k	-61.62	-13.00	Pass
30	2000	1	RMS	1.960 G	-50.26	-13.00	Pass
2000	2500	1	RMS	2.131 G	29.81	-13.00	Fail
2500	3000	1	RMS	2.557 G	-46.01	-13.00	Pass
3000	26500	1	RMS	26.189 G	-27.89	-13.00	Pass



NOTE: The failed emission is the fundamental frequency, which should be exempted.

2.1.6 EUT Conf. TX_10M_T_TM1.1

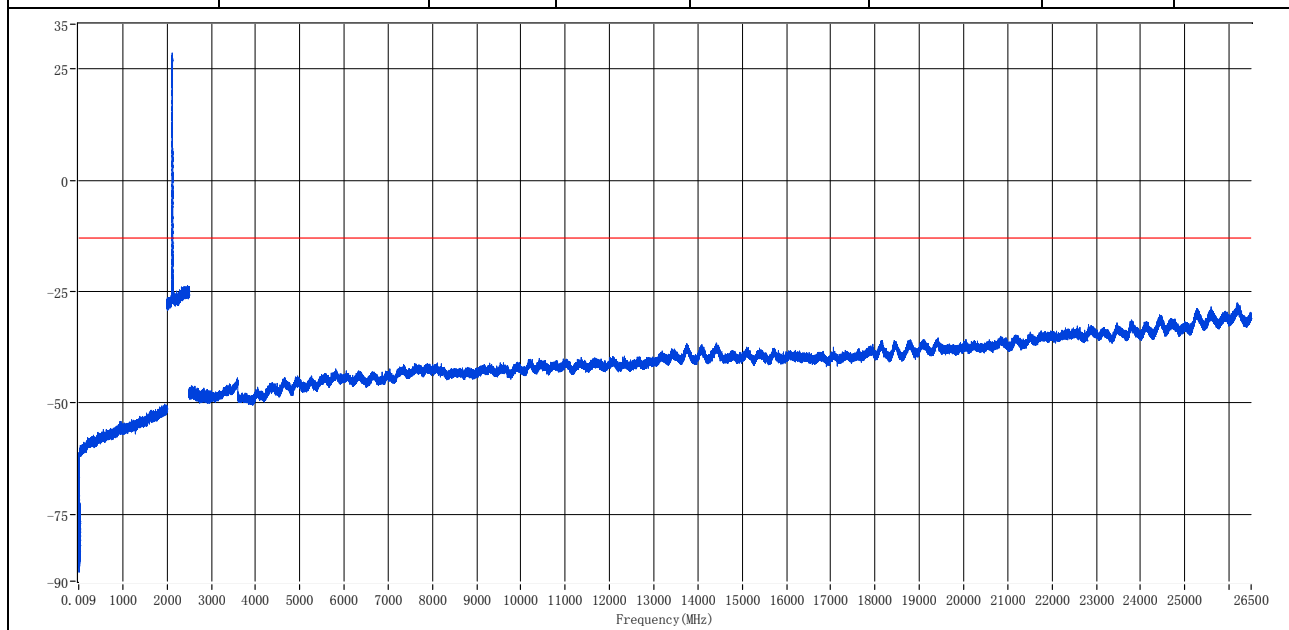
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict
0.009	0.15	0.001	RMS	34.549 k	-61.52	-13.00	Pass
0.15	30	0.01	RMS	151.990 k	-60.91	-13.00	Pass
30	2000	1	RMS	1.998 G	-50.09	-13.00	Pass
2000	2500	1	RMS	2.150 G	29.55	-13.00	Fail
2500	3000	1	RMS	2.590 G	-45.68	-13.00	Pass
3000	26500	1	RMS	26.197 G	-27.41	-13.00	Pass



NOTE: The failed emission is the fundamental frequency, which should be exempted.

2.1.7 EUT Conf. TX_15M_B_TM1.1

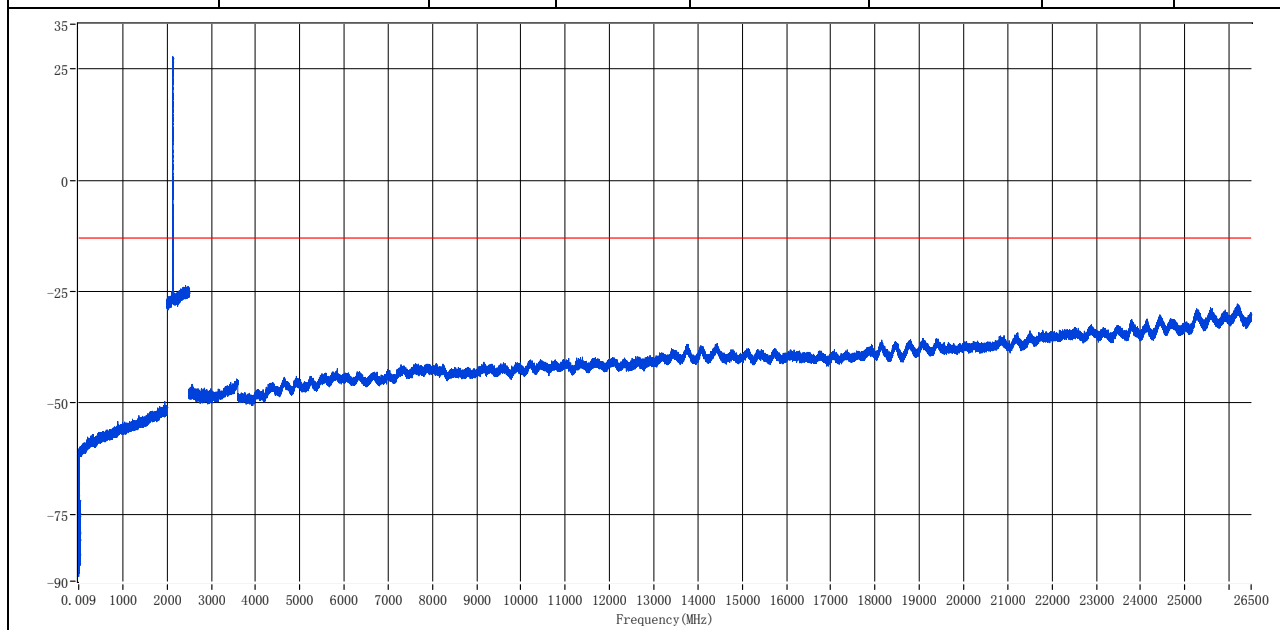
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict
0.009	0.15	0.001	RMS	34.295 k	-61.18	-13.00	Pass
0.15	30	0.01	RMS	164.925 k	-61.69	-13.00	Pass
30	2000	1	RMS	1.949 G	-50.31	-13.00	Pass
2000	2500	1	RMS	2.115 G	28.55	-13.00	Fail
2500	3000	1	RMS	2.548 G	-46.22	-13.00	Pass
3000	26500	1	RMS	26.193 G	-27.57	-13.00	Pass



NOTE: The failed emission is the fundamental frequency, which should be exempted.

2.1.8 EUT Conf. TX_15M_M_TM1.1

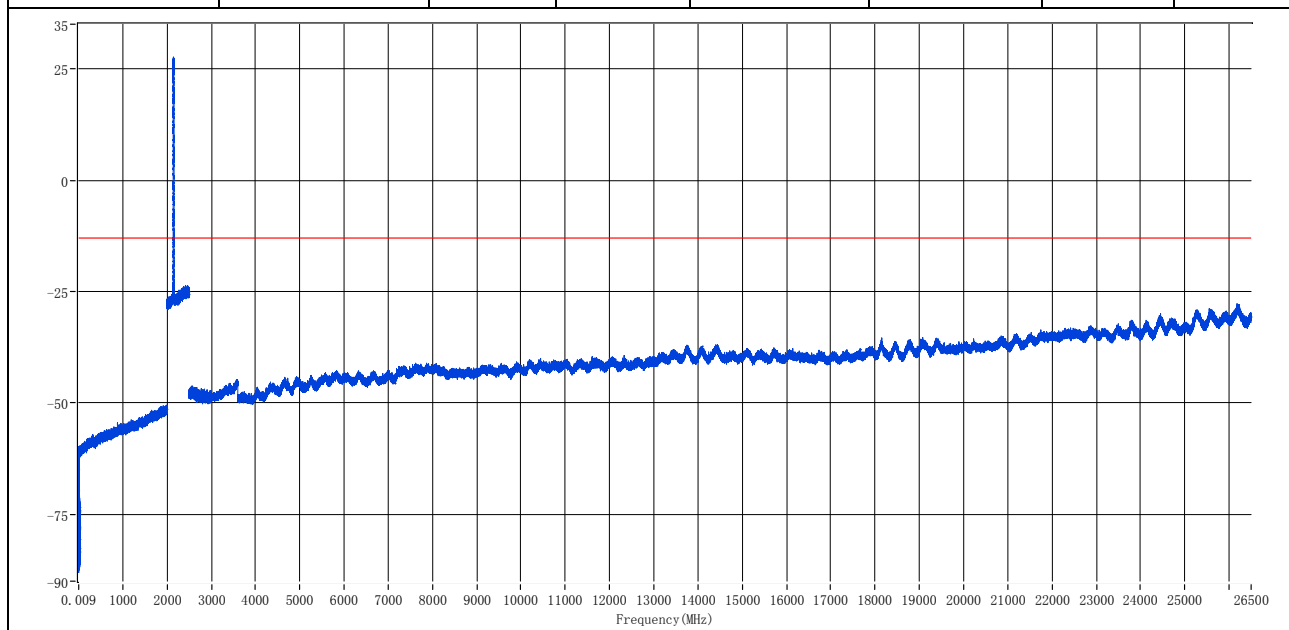
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict
0.009	0.15	0.001	RMS	35.085 k	-60.37	-13.00	Pass
0.15	30	0.01	RMS	315.170 k	-61.55	-13.00	Pass
30	2000	1	RMS	1.953 G	-49.70	-13.00	Pass
2000	2500	1	RMS	2.127 G	27.70	-13.00	Fail
2500	3000	1	RMS	2.563 G	-45.80	-13.00	Pass
3000	26500	1	RMS	26.187 G	-27.78	-13.00	Pass



NOTE: The failed emission is the fundamental frequency, which should be exempted.

2.1.9 EUT Conf. TX_15M_T_TM1.1

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict
0.009	0.15	0.001	RMS	34.441 k	-59.79	-13.00	Pass
0.15	30	0.01	RMS	207.710 k	-62.12	-13.00	Pass
30	2000	1	RMS	1.995 G	-50.50	-13.00	Pass
2000	2500	1	RMS	2.149 G	27.64	-13.00	Fail
2500	3000	1	RMS	2.564 G	-46.22	-13.00	Pass
3000	26500	1	RMS	26.179 G	-27.70	-13.00	Pass



NOTE: The failed emission is the fundamental frequency, which should be exempted.