



TEST REPORT

No. 2013BT02091

For

**Client : Shanghai SIMCom Wireless Solutions
Co.,Ltd.**

**Production : GSM/GPRS(850/900/1800/1900MHz)+
BT Wireless Data Module**

Model Name : SIM800

Hardware Version: V2.01

Software Version: SIM800 R13.08

Issued date: 2014-01-15



Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of ECIT Shanghai.

Test Laboratory:

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1. Testing Laboratory

1.1. Testing Location

Company Name:	ECIT Shanghai, East China Institute of Telecommunications
Address:	7-8F, G Area, No. 668, Beijing East Road, Huangpu District, Shanghai, P. R. China
Postal Code:	200001
Telephone:	(+86)-021-63843300
Fax:	(+86)-021-63843301

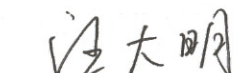
1.2. Testing Environment


Normal Temperature:	15-35°C
Extreme Temperature:	-20/+55°C
Relative Humidity:	20-75%

1.3. Project data

Project Leader:	Gong Yujuan
Testing Start Date:	2013-12-24
Testing End Date:	2014-01-07

1.4. Signature


Wang Daming
(Prepared this test report)


Liu kai
(Reviewed this test report)


Zheng Zhongbin
Director of the laboratory
(Approved this test report)

2. Client Information

3.1.Applicant Information

Company Name: Shanghai SIMCom Wireless Solutions Co.,Ltd.
Address: Building A,SIM Technology Building,No.633,Jinzhong Road,Changning District,Shanghai R.R.China
Telephone: 86-021-32523300
Postcode: 200335
Fax: 86-021-32523020

3.2.Manufacturer Information

Company Name: Shenyang Simcom Technology Ltd.
Address: No.37, Shenbei Rd, Shenbei New Aear, Shenyang,P.R.China
Telephone: 86-024-88922222
Fax: 86-024-88922225

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1.About EUT

EUT Description	GSM/GPRS(850/900/1800/1900MHz)+BT Wireless Data Module
Model name	SIM800
Bluetooth Frequency	2402MHz-2480Mhz
Bluetooth Channel	Channel0-Channel78
Bluetooth Modulation	GMSK; $\pi/4$ DQPSK;8DPSK
Extreme Temperature	-20/+55℃
Nominal Voltage	3.8V
Extreme High Voltage	4.2V
Extreme Low Voltage	3.6V

Note: Photographs of EUT are shown in ANNEX B of this test report.

3.2.Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
N11	862951020007549	V2.01	SIM800 R13.08	2013-12-24

*EUT ID: is used to identify the test sample in the lab internally.

3.3.Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	RF cable	---
AE2	---	---

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
ETSI EN 300 328	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive.	V1.7.1

5. Summary of Test Results

A brief summary of the tests carried out is shown as following.

Test Suites	Tested	Passed	Failed
Product RF Conformance Testing	6	6	0
Sum	6	6	0

Test Item List as follow:

NO.	Test Item Name
1	Maximum transmit power
2	Frequency range
3	Frequency hopping requirements
4	Medium Access Protocol
5	Transmitter spurious emissions (radiated & conducted)
6	Receiver spurious emissions (radiated & conducted)

Note:

- a. All the test data for each data were verified, but only the worst case was reported.
- b. The GFSK, $\pi/4$ DQPSK and 8DPSK were set in DH1 for GFSK, 2-DH1 for $\pi/4$ DQPSK, 3-DH1 for 8DPSK.
- c. The DC and low frequency voltages' measurement uncertainty is $\pm 2\%$.

6. General Information

6.1. Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with ETSI EN300 328.

The test results of this test report relate exclusively to the item(s) tested as specified in section 5.

The following deviation from, additions to, or exclusions from the test specifications have been made. See section 3.

6.2. Statements

The product name SIM800, supporting BT, manufactured by Shenyang Simcom Technology Ltd. is a new product for testing.

ECIT has verified that the compliance of the tested device specified in section 5 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 5 of this test report.

7. Test result

7.1.Maximum Transmit Power

Method of Measurement: See EN 300328 v1.7.1 clause 5.7.2

Measurement Limit:

Standard	Limit (dBm)
ETSI EN 300328 _ Clause 4.3.1	≤ 20

Measurement Uncertainty:

Measurement Uncertainty	$\pm 1.17\text{dB}$
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Temperature Uncertainty:

Measurement Uncertainty	$\pm 1^{\circ}\text{C}$
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Measurement Results:

The radiated E.I.R.P is listed below:

For GFSK

Channel	Frequency(MHz)	E.I.R.P (dBm)	Conclusion
0	2402	4.6	P
39	2441	2.0	P
78	2480	3.1	P

For $\pi/4$ DQPSK

Channel	Frequency(MHz)	E.I.R.P (dBm)	Conclusion
0	2402	3.6	P
39	2441	1.0	P
78	2480	1.7	P

For 8DPSK

Channel	Frequency(MHz)	E.I.R.P (dBm)	Conclusion
0	2402	4.5	P
39	2441	1.4	P
78	2480	3.3	P

The conducted transmitter power is listed below:

Test Condition:

T min = -20 °C T nom = 25 °C T max = 55 °C

V min = 3.6 V V nom = 3.8 V V max = 4.2 V

Relative Humidity: 50%~60% at normal and high temperature.

For GFSK

Test Condition		Transmitter AVG output power (dBm)			
		2402MHz (Ch0)	2441MHz(Ch39)	2480MHz(Ch78)	Conclusion
Tnom	Vnom	6.46	6.46	6.50	P
Tmax	Vmax	6.51	6.55	6.61	P
	Vmin	6.50	6.52	6.59	P
Tmin	Vmax	6.46	6.41	6.42	P
	Vmin	6.43	6.39	6.41	P

For $\pi/4$ DQPSK

Test Condition		Transmitter AVG output power (dBm)			
		2402MHz (Ch0)	2441MHz(Ch39)	2480MHz(Ch78)	Conclusion
Tnom	Vnom	5.28	5.30	5.36	P
Tmax	Vmax	5.31	5.37	5.42	P
	Vmin	5.30	5.35	5.41	P
Tmin	Vmax	5.27	5.25	5.31	P
	Vmin	5.26	5.23	5.29	P

For 8DPSK

Test Condition		Transmitter AVG output power (dBm)			
		2402MHz (Ch0)	2441MHz(Ch39)	2480MHz(Ch78)	Conclusion
Tnom	Vnom	5.28	5.33	5.42	P
Tmax	Vmax	5.37	5.39	5.49	P
	Vmin	5.36	5.39	5.49	P
Tmin	Vmax	5.21	5.28	5.36	P
	Vmin	5.19	5.27	5.35	P

Conclusion: PASS

7.2.Frequency Range

Method of Measurement: See EN 300328 v1.7.1 clause 5.7.4-option1.

Measurement Limit:

Standard	Limit (MHz)
ETSI EN 300328 _ Clause 4.3.3	$f_L > 2400.0$
	$f_H < 2483.5$

Measurement Uncertainty:

Measurement Uncertainty	$\pm 60.8\text{Hz}$
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Temperature Uncertainty:

Measurement Uncertainty	$\pm 1^\circ\text{C}$
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Measurement Results:

Test Condition:

T min = -20 °C

T nom = 25 °C

T max = 55 °C

V min = 3.6 V

V nom = 3.8 V

V max = 4.2 V

For GFSK

Test Condition		FREQUENCY(MHz)			
		f_L		f_H	
Tnom	Vnom	Fig.1	2401.695	Fig.2	2480.224
Tmax	Vmax	Fig.3	2401.695	Fig.4	2480.224
	Vmin	Fig.5	2401.695	Fig.6	2480.224
Tmin	Vmax	Fig.7	2401.695	Fig.8	2480.208
	Vmin	Fig.9	2401.695	Fig.10	2480.208
Conclusion		P		P	

For $\pi/4$ DQPSK

Test Condition		FREQUENCY(MHz)			
		f_L		f_H	
Tnom	Vnom	Fig.11	2401.779	Fig.12	2480.256
Tmax	Vmax	Fig.13	2401.760	Fig.14	2480.256
	Vmin	Fig.15	2401.760	Fig.16	2480.256
Tmin	Vmax	Fig.17	2401.791	Fig.18	2480.272
	Vmin	Fig.19	2401.791	Fig.20	2480.272
Conclusion		P		P	

For 8DPSK

Test Condition		FREQUENCY(MHz)			
		f_L		f_H	
Tnom	Vnom	Fig.21	2401.776	Fig.22	2480.192
Tmax	Vmax	Fig.23	2401.760	Fig.24	2480.192
	Vmin	Fig.25	2401.760	Fig.26	2480.192
Tmin	Vmax	Fig.27	2401.791	Fig.28	2480.192
	Vmin	Fig.29	2401.791	Fig.30	2480.192
Conclusion		P		P	

See ANNEX A for test graphs.

Conclusion: PASS

7.3. Frequency Hopping Requirements

7.3.1. Dwell time

Measurement Limit:

Standard	Limit
ETSI EN 300328 _ Clause 4.3.4.1	< 400 ms

Measurement Uncertainty:

Measurement Uncertainty	$\pm 0.088\text{ms}$
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Measurement Results:

For GFSK

Channel	Packet	Dwell Time(ms)		Conclusion
Ch 39	DH5	Fig.31	2.87	P
		Fig.32		

For $\pi/4$ DQPSK

Channel	Packet	Dwell Time(ms)		Conclusion
Ch 39	2-DH5	Fig.33	2.87	P
		Fig.34		

For 8DPSK

Channel	Packet	Dwell Time(ms)		Conclusion
Ch 39	3-DH5	Fig.35	2.87	P
		Fig.36		

See ANNEX A for test graphs.

Conclusion: PASS

7.3.2. Hopping channel**Measurement Limit:**

Standard	Limit
ETSI EN 300328 _ Clause 4.3.4.2	$\geq 1\text{MHz}$

Measurement Uncertainty:

Measurement Uncertainty	$\pm 60.8\text{Hz}$
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Measurement Results:**For GFSK**

Channel	Carrier frequency separation (kHz)		Conclusion
39	Fig.37	1105.77	P

See ANNEX A for test graphs.

Conclusion: PASS

7.3.3. Hopping sequence

Measurement Limit:

Standard	Limit
ETSI EN 300328 _ Clause 4.3.4.3	At least 15 non-overlapping channels

Measurement Result:**For GFSK**

Channel	Number of hopping channels		Conclusion
0~39	Fig.38	79	P
40~78	Fig.39		

See ANNEX A for test graphs.

Conclusion: PASS

7.4. Medium Access Protocol

Standard: ETSI EN 300 328 _ Clause 4.3.5

A medium access protocol is implemented by the equipment.

Conclusion: PASS

7.5. Transmission Spurious Emission (Radiated & Conducted)

Method of Measurement: See EN 300328 v1.7.1 clause 5.7.5.

Measurement Limit:

Standard	Frequency Range	Limits
ETSI EN 300 328 _ Clause 4.3.6	30MHz~1GHz	< -36 dBm
	1GHz~12.75GHz	< -30 dBm
	1.8GHz ~ 1.9GHz 5.15GHz ~ 5.3 GHz	< -47 dBm

Measurement Uncertainty:

Frequency Range	Uncertainty
$30\text{MHz} \leq f \leq 2\text{GHz}$	± 1.13
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	± 1.16
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	± 2.45
$8\text{GHz} \leq f \leq 12.75\text{GHz}$	± 2.99

7.5.1. Transmitter Spurious Emission – Radiated

Measurement Result:

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	30 MHz ~ 12.75GHz	Fig.40	P

See ANNEX A for test graphs.

Conclusion: PASS

7.5.2. Transmitter Spurious Emission –Conducted

Measurement Result:

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	2402 MHz	Fig.41	P
	30 MHz ~ 3 GHz	Fig.42	P
	3 GHz ~ 12.75 GHz	Fig.43	P
Ch 78 2480 MHz	2480 MHz	Fig.44	P
	30 MHz ~ 3 GHz	Fig.45	P
	3 GHz ~ 12.75 GHz	Fig.46	P

For $\pi/4$ DQPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	2402 MHz	Fig.47	P
	30 MHz ~ 3 GHz	Fig.48	P
	3 GHz ~ 12.75 GHz	Fig.49	P
Ch 78 2480 MHz	2480 MHz	Fig.50	P
	30 MHz ~ 3 GHz	Fig.51	P
	3 GHz ~ 12.75 GHz	Fig.52	P

For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	2402 MHz	Fig.53	P
	30 MHz ~ 3 GHz	Fig.54	P
	3 GHz ~ 12.75 GHz	Fig.55	P
Ch 78 2480 MHz	2480 MHz	Fig.56	P
	30 MHz ~ 3 GHz	Fig.57	P
	3 GHz ~ 12.75 GHz	Fig.58	P

See ANNEX A for test graphs.

Conclusion: PASS

7.6. Receiver Spurious Emission (Radiated & Conducted)

Method of Measurement: See EN 300328 v1.7.1 clause 5.7.6.

Measurement Limit:

Standard	Limits (dBm)	
ETSI EN 300 328 _ Clause 4.3.7	30 MHz to 1 GHz	< - 57
	1 GHz to 12.75 GHz	< - 47

Measurement Uncertainty:

Frequency Range	Uncertainty
30MHz ≤ f ≤ 2GHz	±1.13
2GHz ≤ f ≤ 3.6GHz	±1.16
3.6GHz ≤ f ≤ 8GHz	±2.45
8GHz ≤ f ≤ 12.75GHz	±2.99

7.6.1. Receiver Spurious Emissions – Radiated

Measurement Result:

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	30 MHz ~ 12.75GHz	Fig.59	P

See ANNEX A for test graphs.

Conclusion: PASS

7.6.2. Receiver Spurious Emissions –Conducted

Measurement Result:

Channel	Frequency Range	Test Results	Conclusion
Idle	30 MHz ~ 1 GHz	Fig.60	P
	1 GHz ~ 6 GHz	Fig.61	P
	6 GHz ~ 12.75 GHz	Fig.62	P

See ANNEX A for test graphs.

Conclusion: PASS

8. Test Equipments and Ancillaries Used For Tests

The test equipments and ancillaries used are as follows.

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyser	FSQ26	101096	Rohde&Schwarz	2014-08-30
2	Bluetooth Tester	CBT32	100785	Rohde&Schwarz	2014-08-30
3	DC Power Supply	ZUP60-14	LOC-220Z006-0007	TDL-Lambda	2014-08-30

Climate chamber

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Climate chamber	SH-641	92012011	ESPEC	2014-08-13

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Universal Radio	CMU200	123102	R&S	2014-09-09
2	Test Receiver	ESU40	100307	R&S	2014-11-06
3	Trilog Antenna	VULB9163	19-162515	Schwarzbeck	2014-11-11
4	Double Ridged	ETS-3117	135885	ETS	2014-04-29
5	CBT32	CBT32	100785	R&S	2014-10-15

Anechoic chamber

Fully anechoic chamber by Franconia German.

9. Test Environment

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

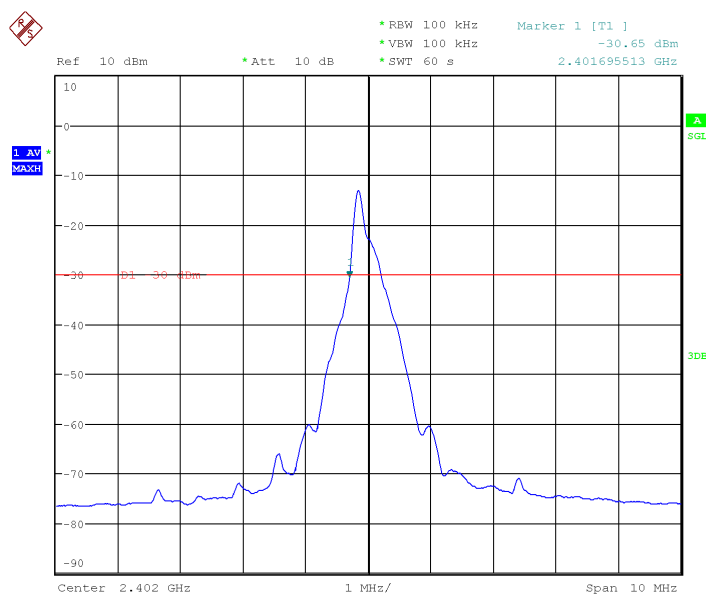
Fully-anechoic chamber1 (6.8 meters×3.08 meters×3.53 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Fully-anechoic chamber2 (Tapered Section: 8.75 meters×3.66 meters×3.66 meters, Rectangular Section: 7.32 meters×3.97 meters×3.66 meters) did not exceed following limits along the EMC testing:

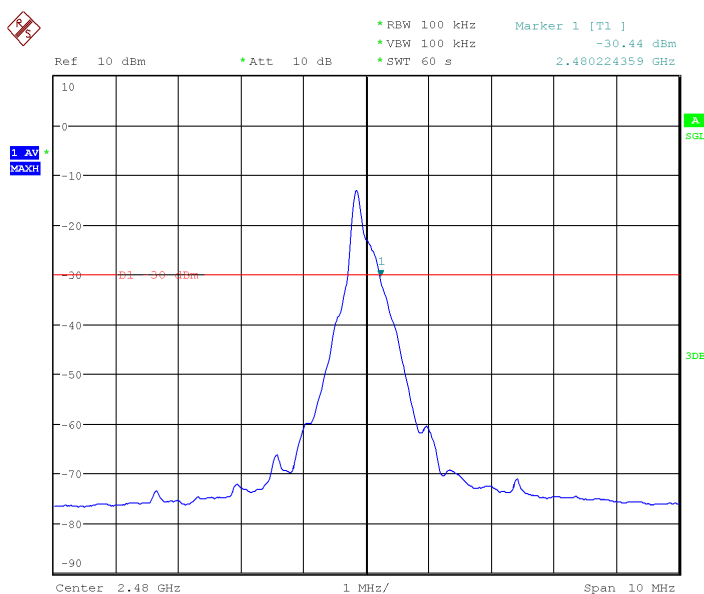
Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 30MHz to 40000MHz

ANNEX A: TEST FIGURE LIST



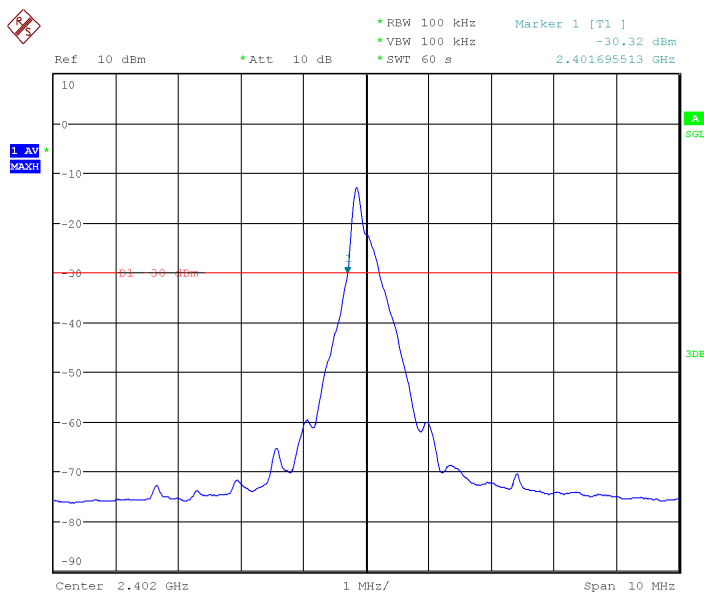
Date: 31.DEC.2013 10:40:35

Fig. 1 Frequency range: Channel 0, GFSK, Tnom, Vnom



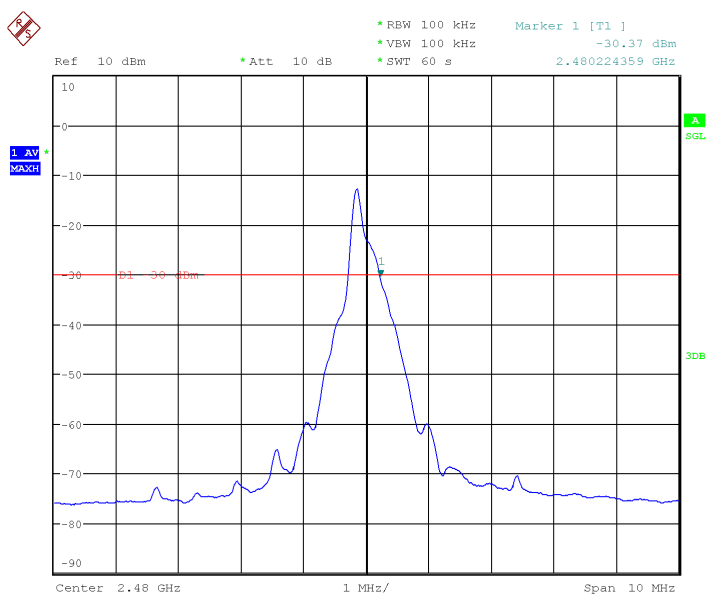
Date: 31.DEC.2013 10:42:13

Fig. 2 Frequency range: Channel 78, GFSK, Tnom, Vnom



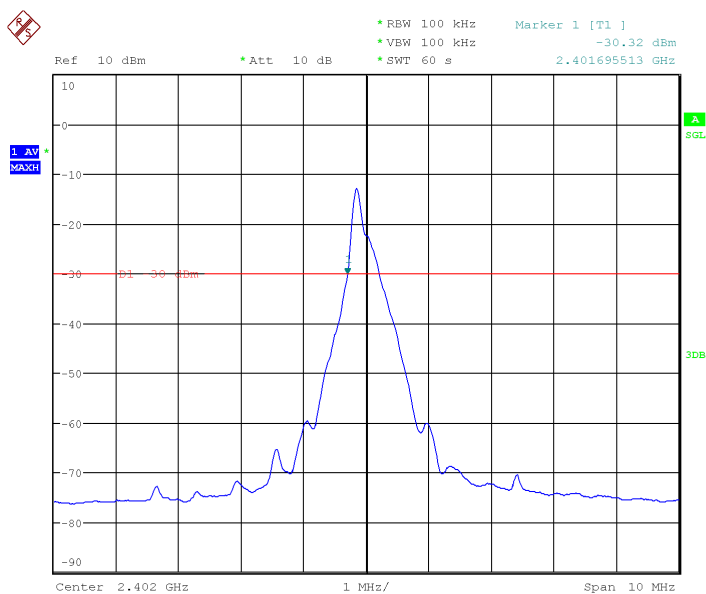
Date: 2.JAN.2014 13:53:52

Fig. 3 Frequency range: Channel 0, GFSK, Tmax, Vmax



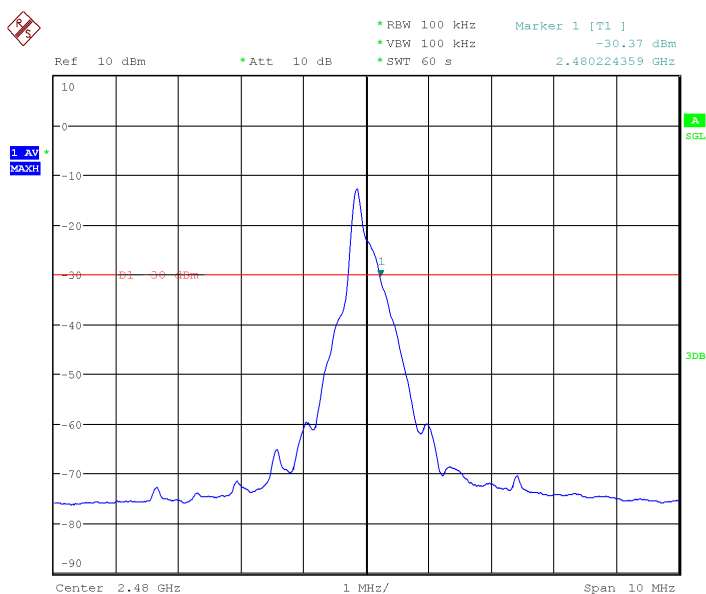
Date: 2.JAN.2014 13:56:21

Fig. 4 Frequency range: Channel 78, GFSK, Tmax, Vmax



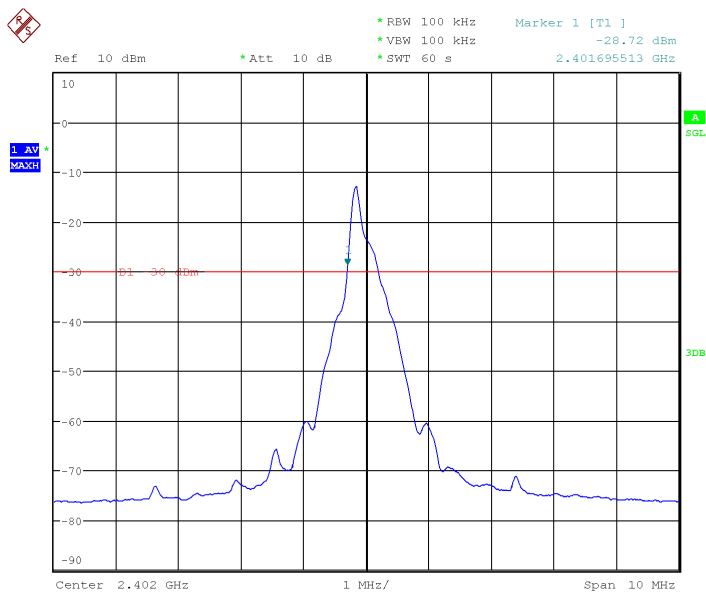
Date: 2.JAN.2014 13:53:58

Fig. 5 Frequency range: Channel 0, GFSK, Tmax, Vmin



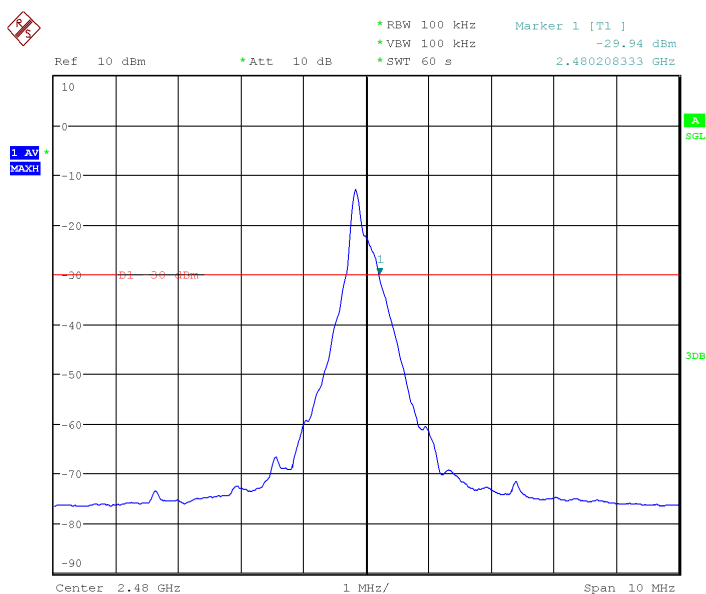
Date: 2.JAN.2014 13:56:28

Fig. 6 Frequency range: Channel 78, GFSK, Tmax, Vmin



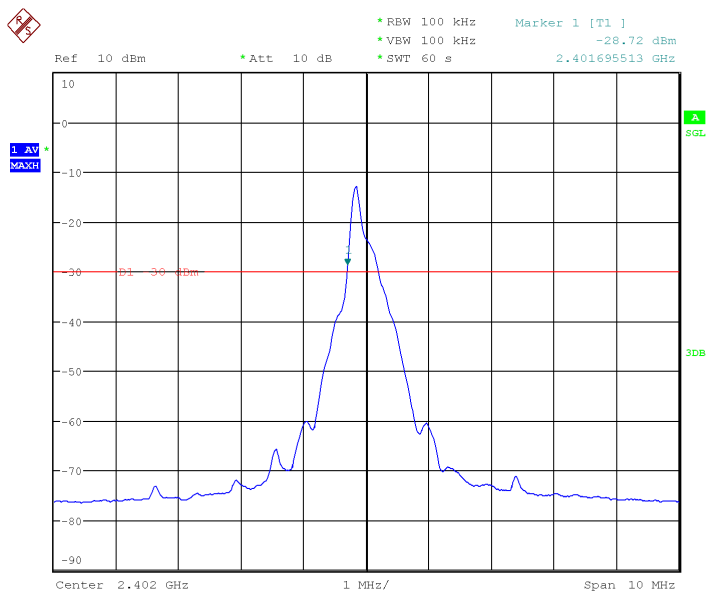
Date: 2.JAN.2014 15:00:48

Fig. 7 Frequency range: Channel 0, GFSK, Tmin, Vmax



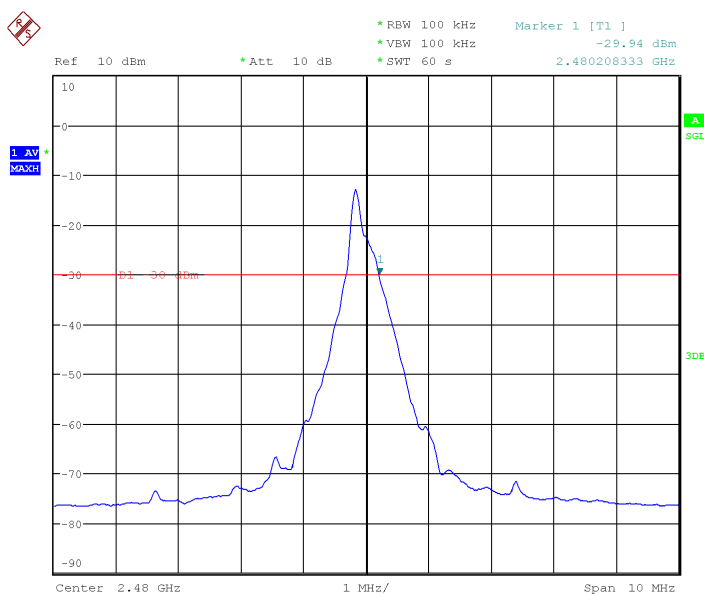
Date: 2.JAN.2014 15:20:54

Fig. 8 Frequency range: Channel 78, GFSK, Tmin, Vmax



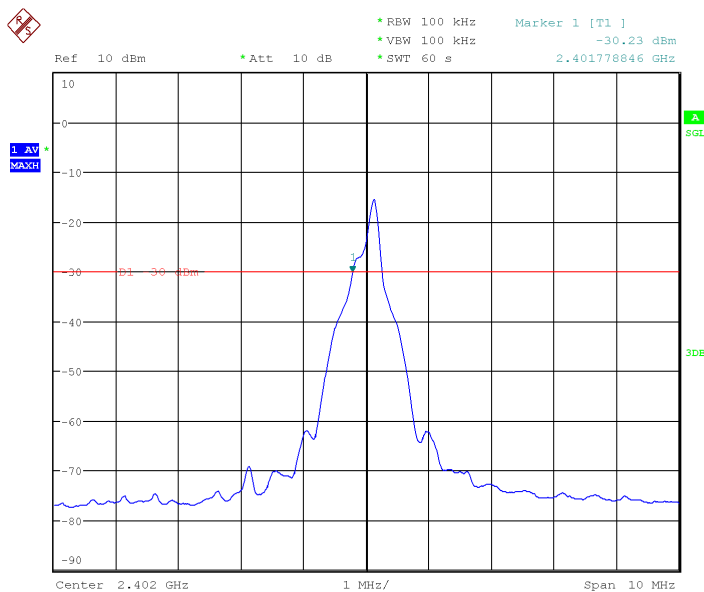
Date: 2.JAN.2014 15:00:53

Fig. 9 Frequency range: Channel 0, GFSK, Tmin, Vmin



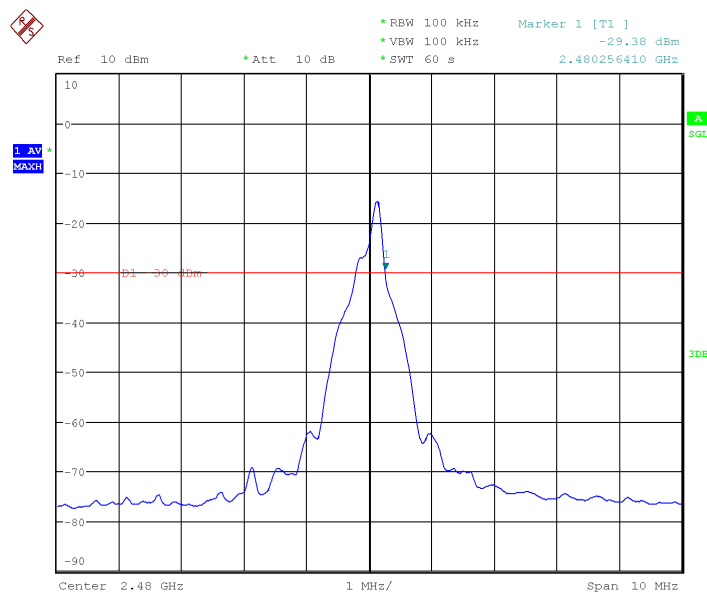
Date: 2.JAN.2014 15:21:01

Fig. 10 Frequency range: Channel 78, GFSK, Tmin, Vmin



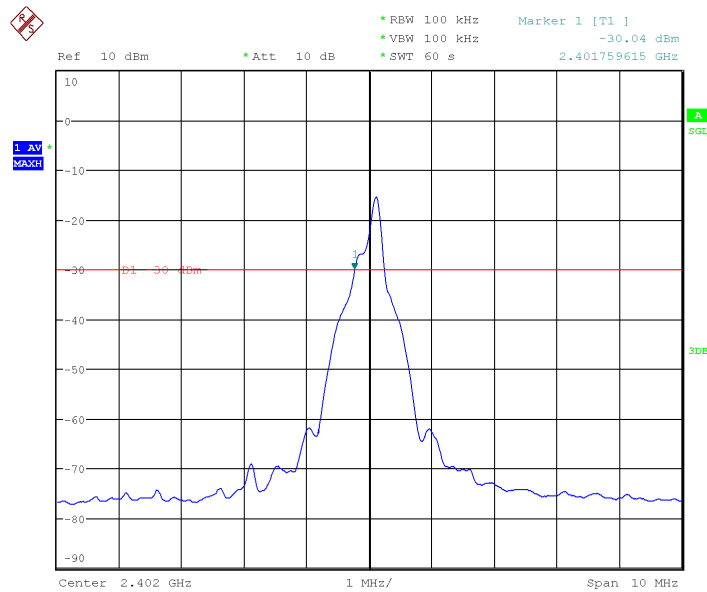
Date: 31.DEC.2013 10:44:54

Fig. 11 Frequency range: Channel 0, $\pi/4$ DQPSK, Tnom, Vnom



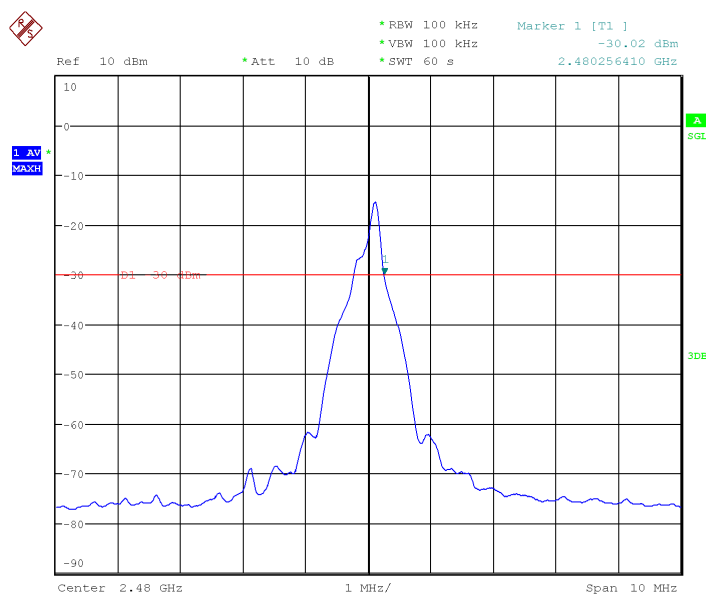
Date: 31.DEC.2013 10:46:48

Fig. 12 Frequency range: Channel 78, $\pi/4$ DQPSK, Tnom, Vnom



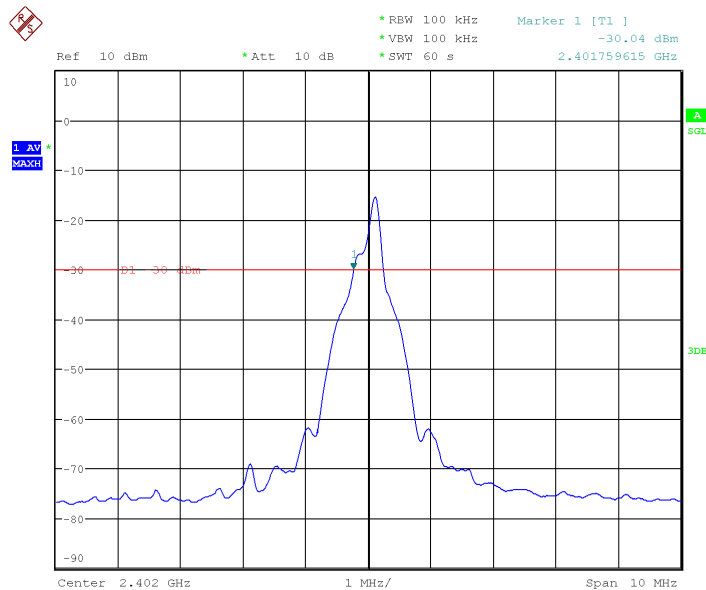
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Fig. 13 Frequency range: Channel 0, $\pi/4$ DQPSK, Tmax, Vmax



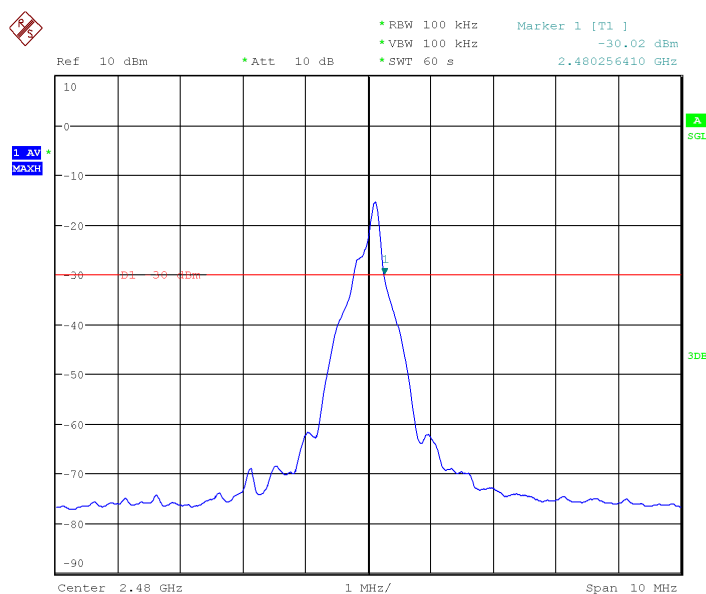
Date: 2.JAN.2014 15:29:07

Fig. 14 Frequency range: Channel 78, $\pi/4$ DQPSK, Tmax, Vmax



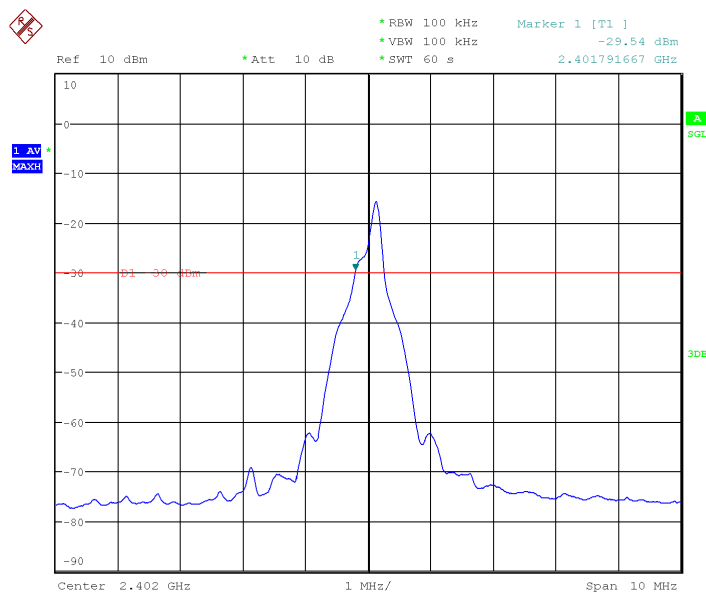
Date: 2.JAN.2014 15:07:15

Fig. 15 Frequency range: Channel 0, $\pi/4$ DQPSK, Tmax, Vmin



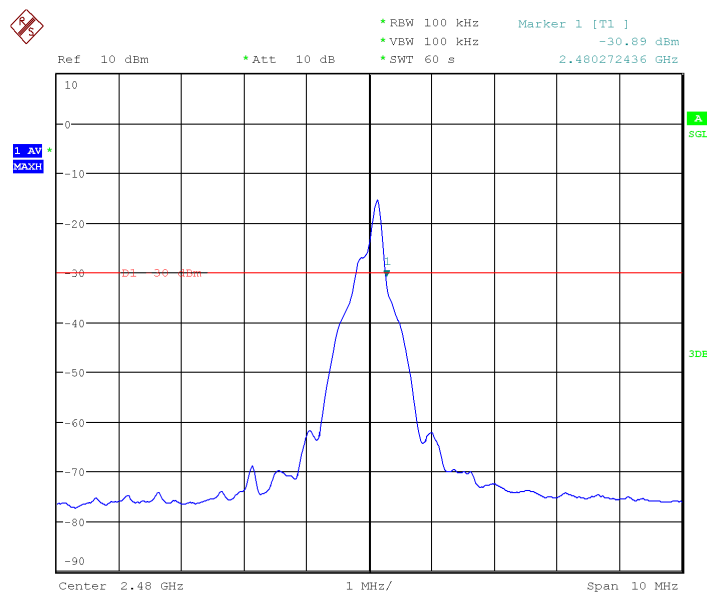
Date: 2.JAN.2014 15:29:13

Fig. 16 Frequency range: Channel 78, $\pi/4$ DQPSK, Tmax, Vmin



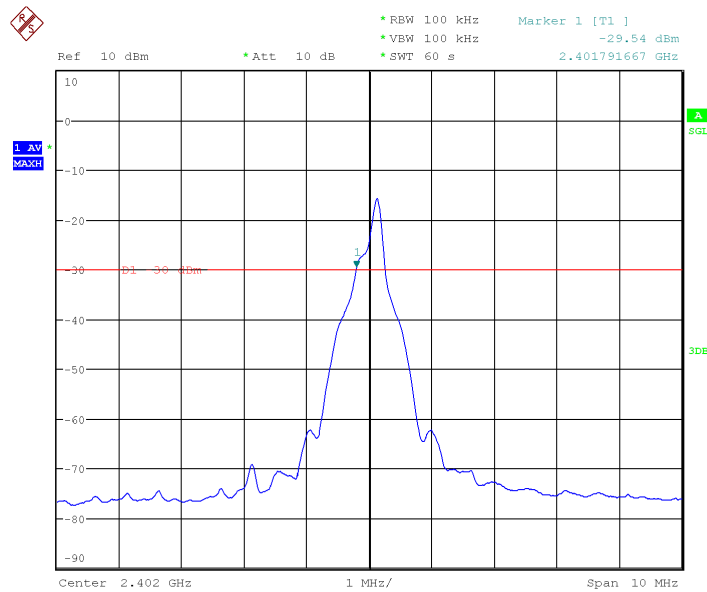
Date: 2.JAN.2014 14:00:10

Fig. 17 Frequency range: Channel 0, $\pi/4$ DQPSK, Tmin, Vmax



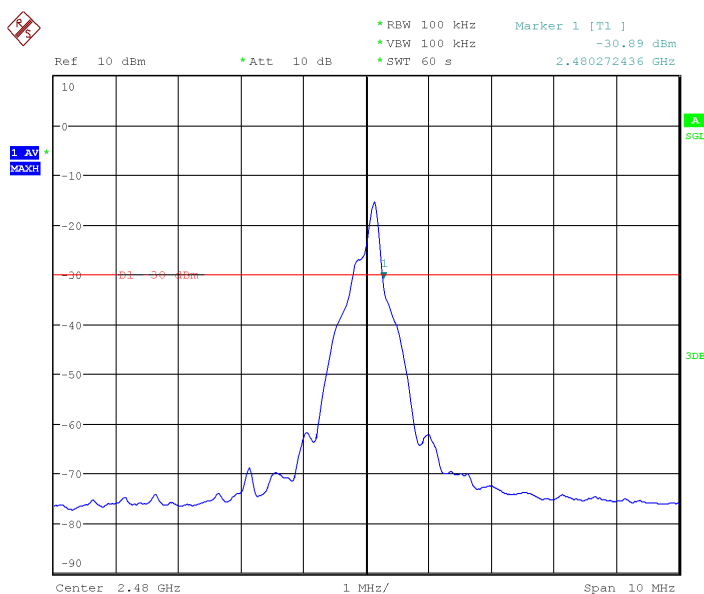
Date: 2.JAN.2014 14:04:28

Fig. 18 Frequency range: Channel 78, $\pi/4$ DQPSK, T_{min}, V_{max}



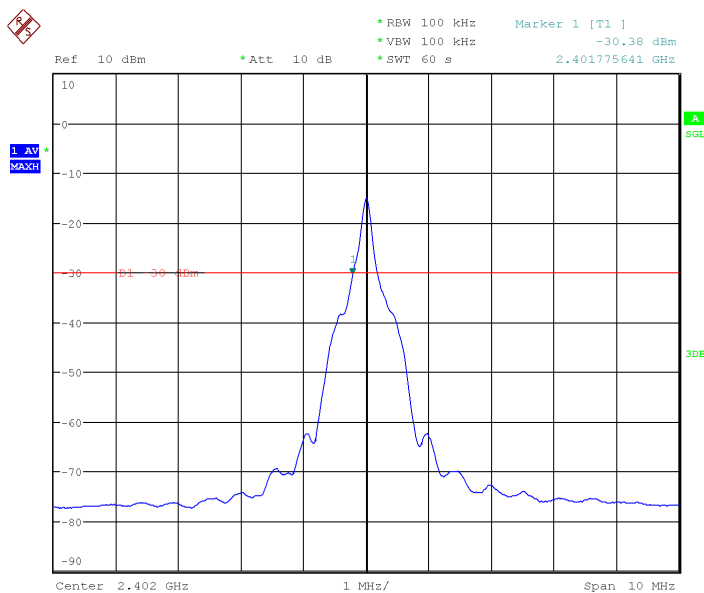
Date: 2.JAN.2014 14:00:16

Fig. 19 Frequency range: Channel 0, $\pi/4$ DQPSK, T_{min}, V_{min}



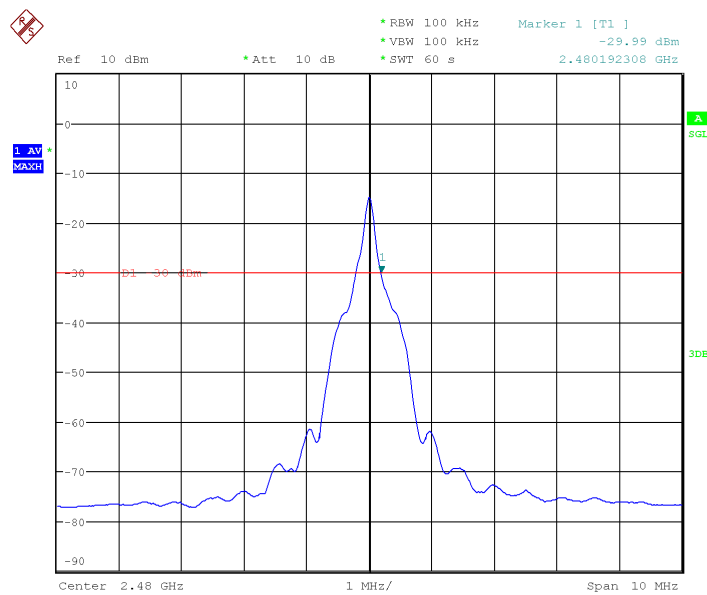
Date: 2.JAN.2014 14:04:34

Fig. 20 Frequency range: Channel 78, $\pi/4$ DQPSK, Tmin, Vmin



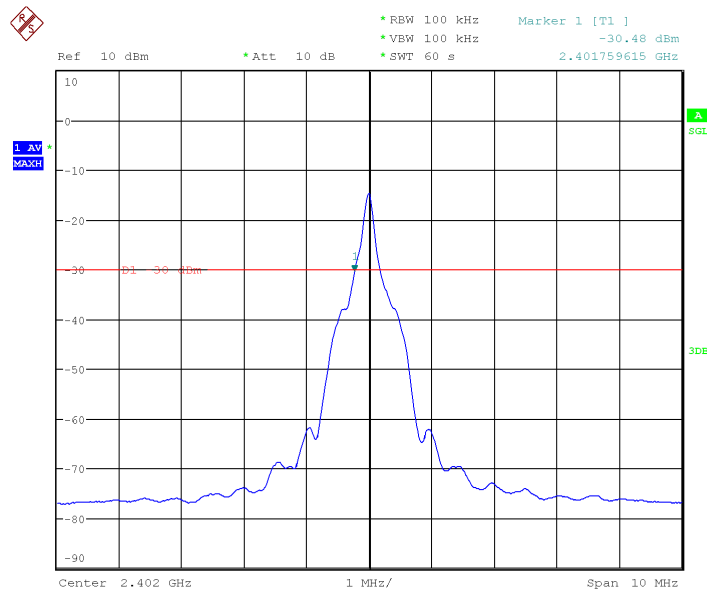
Date: 31.DEC.2013 10:57:28

Fig. 21 Frequency range: Channel 0, 8DPSK, Tnom, Vnom



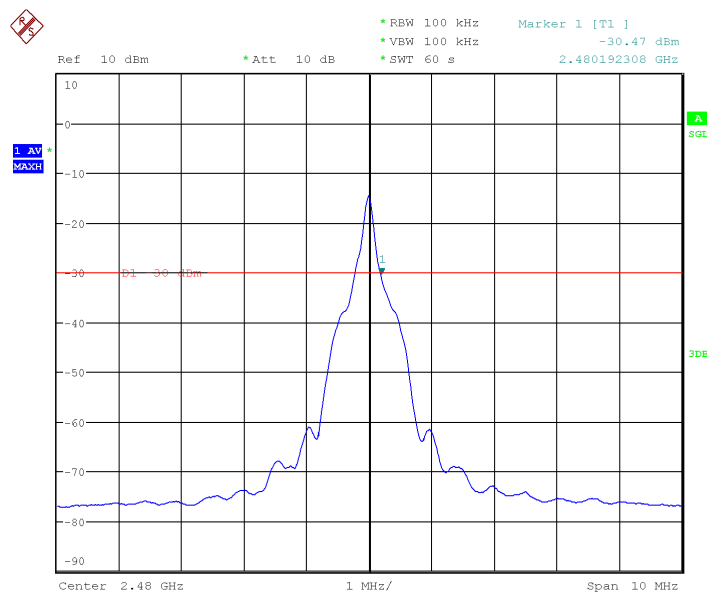
Date: 31.DEC.2013 10:59:42

Fig. 22 Frequency range: Channel 78, 8DPSK, Tnom, Vnom



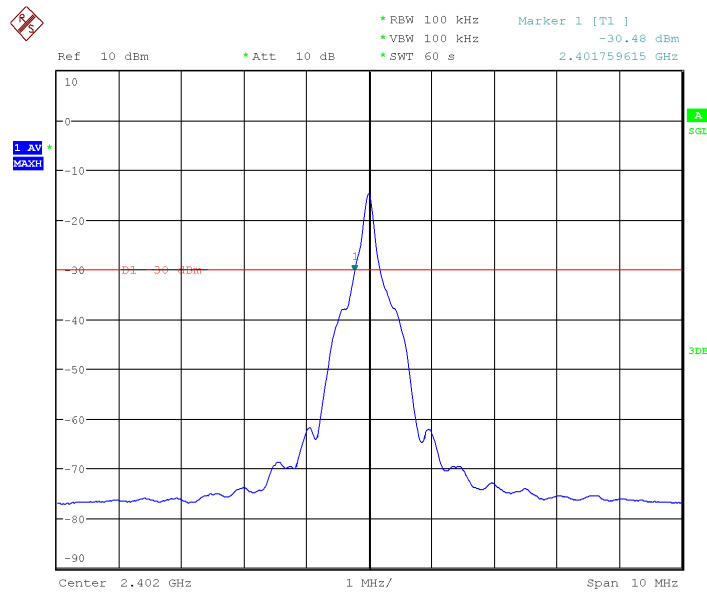
Date: 2.JAN.2014 15:10:07

Fig. 23 Frequency range: Channel 0, 8DPSK, Tmax, Vmax



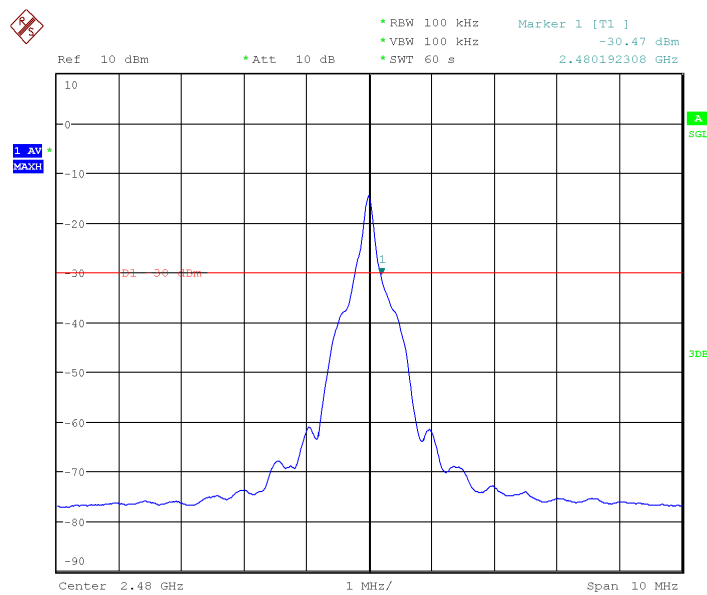
Date: 2.JAN.2014 15:31:16

Fig. 24 Frequency range: Channel 78, 8DPSK, Tmax, Vmax



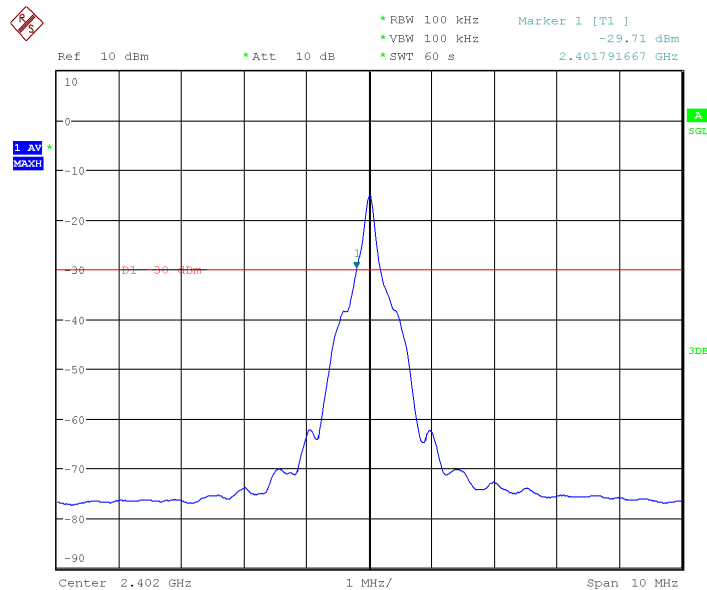
Date: 2.JAN.2014 15:10:12

Fig. 25 Frequency range: Channel 0, 8DPSK, Tmax, Vmin



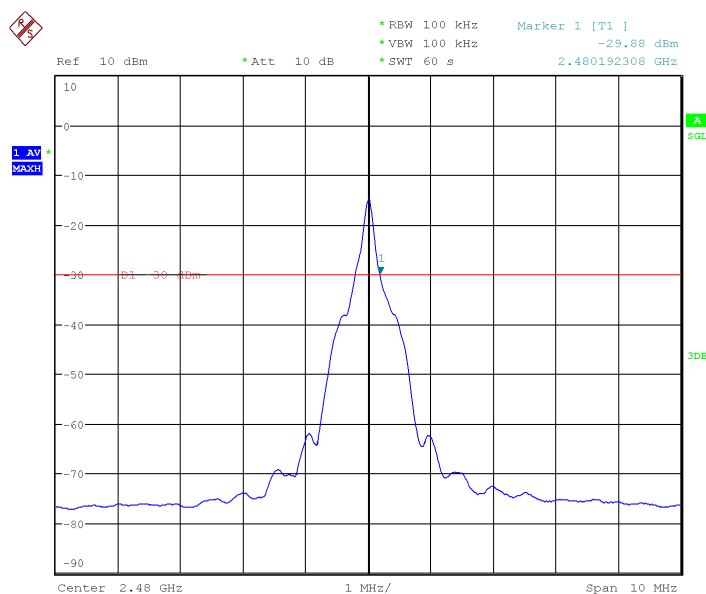
Date: 2.JAN.2014 15:31:23

Fig. 26 Frequency range: Channel 78, 8DPSK, T_{max}, V_{min}



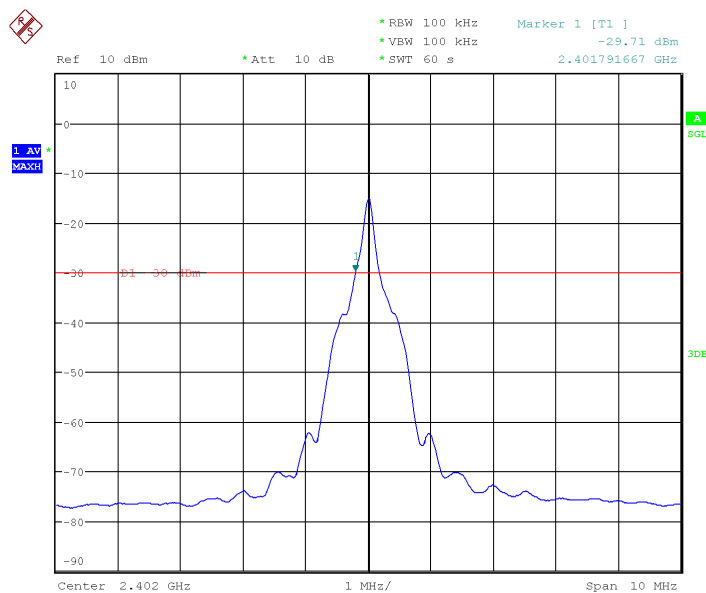
Date: 2.JAN.2014 14:11:55

Fig. 27 Frequency range: Channel 0, 8DPSK, T_{min}, V_{max}



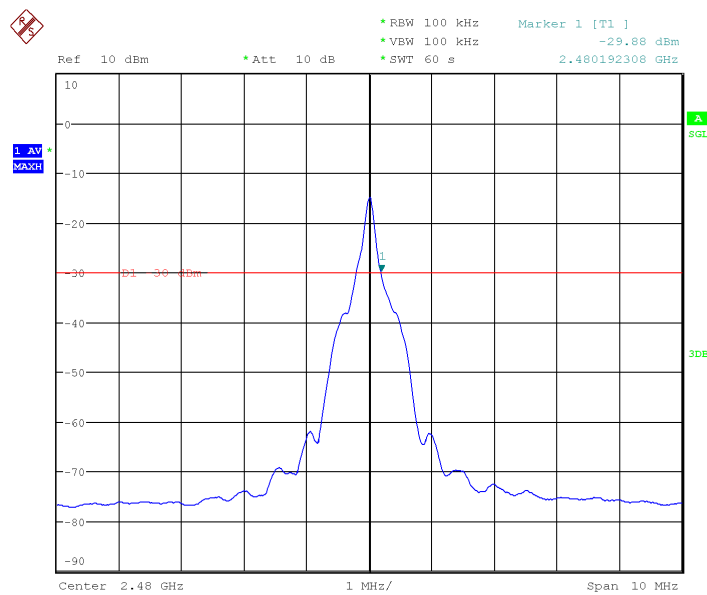
Date: 2.JAN.2014 14:08:45

Fig. 28 Frequency range: Channel 78, 8DPSK, Tmin, Vmax



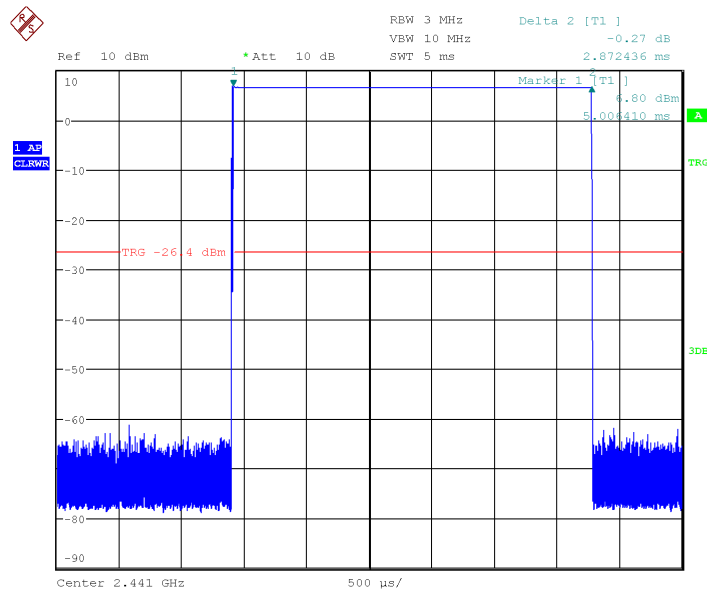
Date: 2.JAN.2014 14:12:00

Fig. 29 Frequency range: Channel 0, 8DPSK, Tmin, Vmin



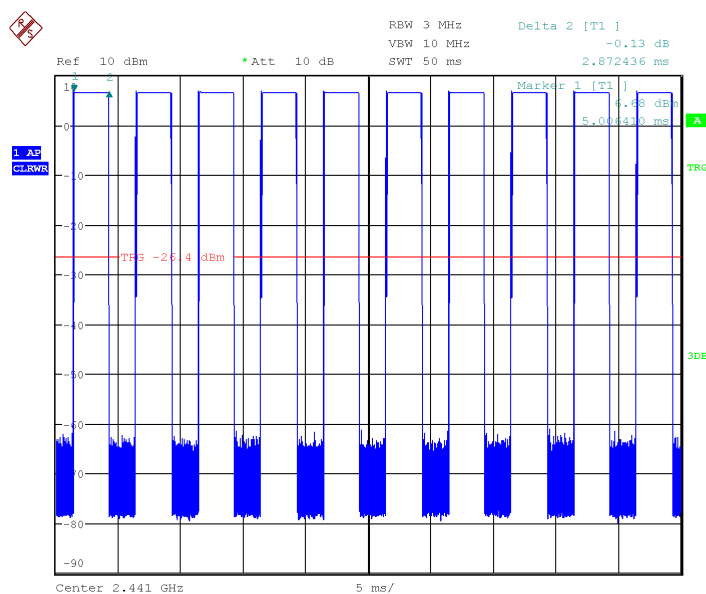
Date: 2.JAN.2014 14:08:50

Fig. 30 Frequency range: Channel 78, 8DPSK, Tmin, Vmin



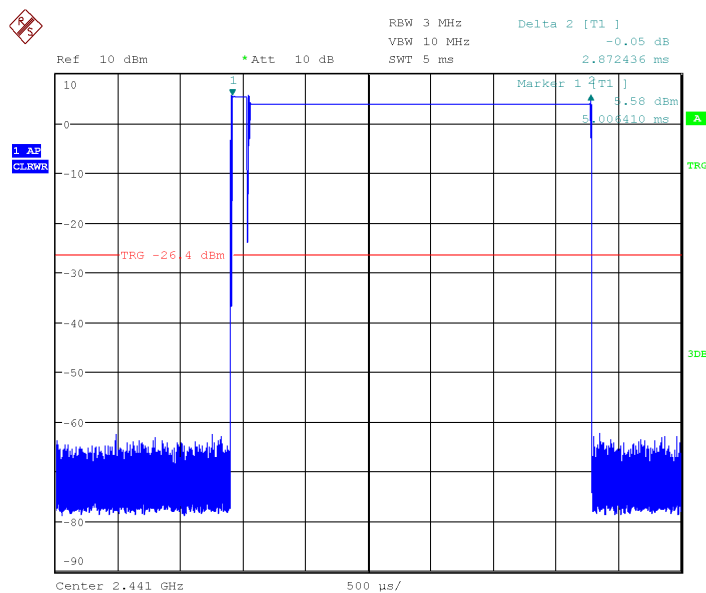
Date: 31.DEC.2013 11:01:26

Fig. 31 Time of Occupancy Measurement at Channel 39, DH5



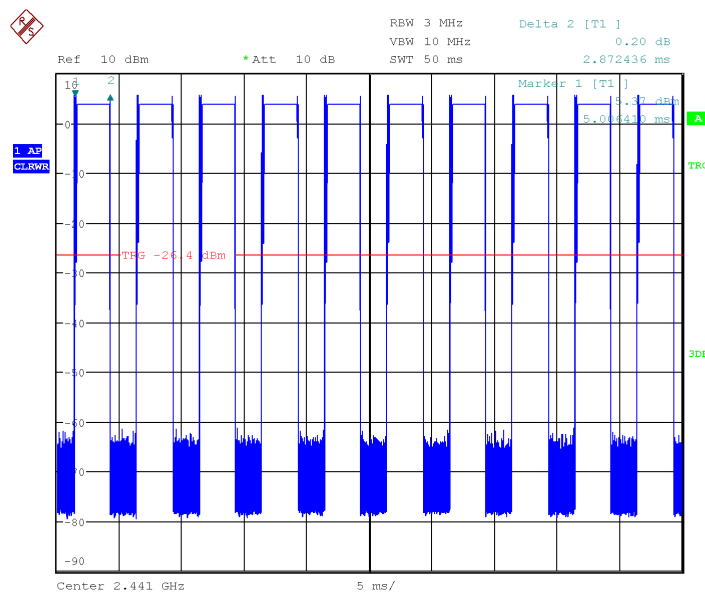
Date: 31.DEC.2013 11:01:34

Fig. 32 Number of Transmissions Measurement at Channel 39, DH5



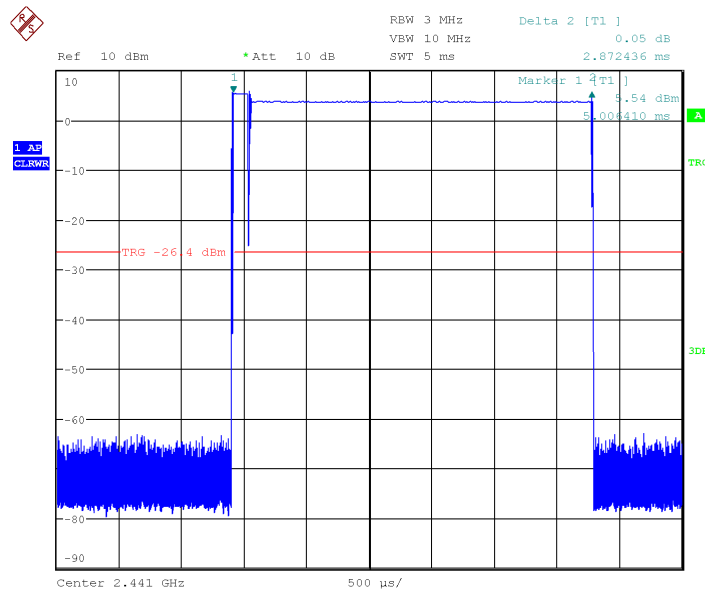
Date: 31.DEC.2013 11:02:11

Fig. 33 Time of Occupancy Measurement at Channel 39, 2-DH5



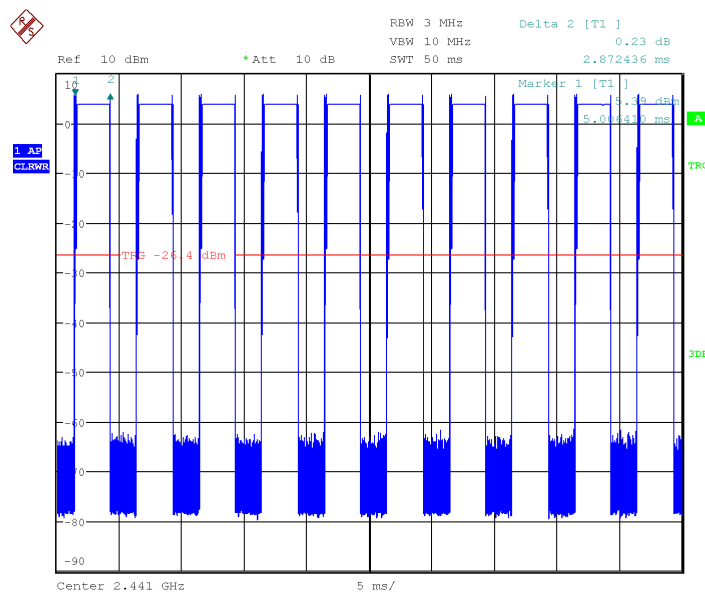
Date: 31.DEC.2013 11:02:01

Fig. 34 Number of Transmissions Measurement at Channel 39, 2-DH5



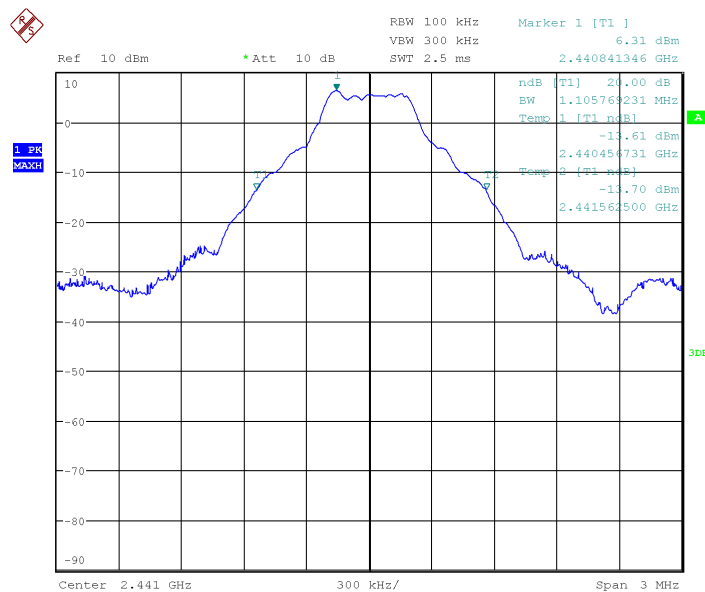
Date: 31.DEC.2013 11:02:41

Fig. 35 Time of Occupancy Measurement at Channel 39, 3-DH5



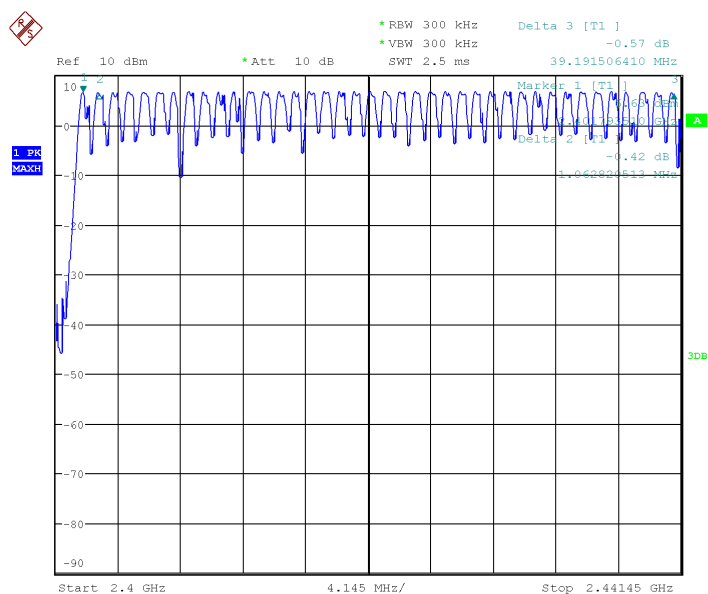
Date: 31.DEC.2013 11:02:59

Fig. 36 Number of Transmissions Measurement at Channel 39, 3-DH5



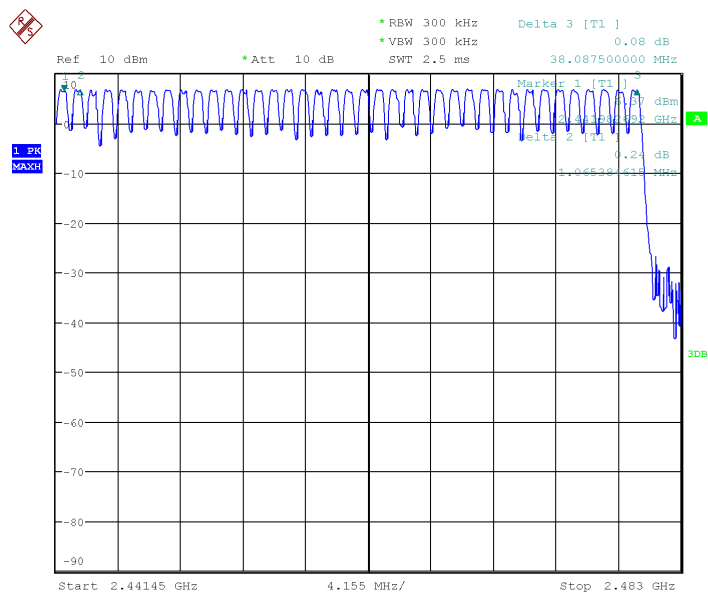
Date: 31.DEC.2013 11:05:11

Fig. 37 GFSK_ hopping channel_ channel 39



Date: 31.DEC.2013 11:08:38

Fig. 38 GFSK_hopping sequence_channel_0_39



Date: 31.DEC.2013 11:11:05

Fig. 39 GFSK_hopping sequence_channel_40_78

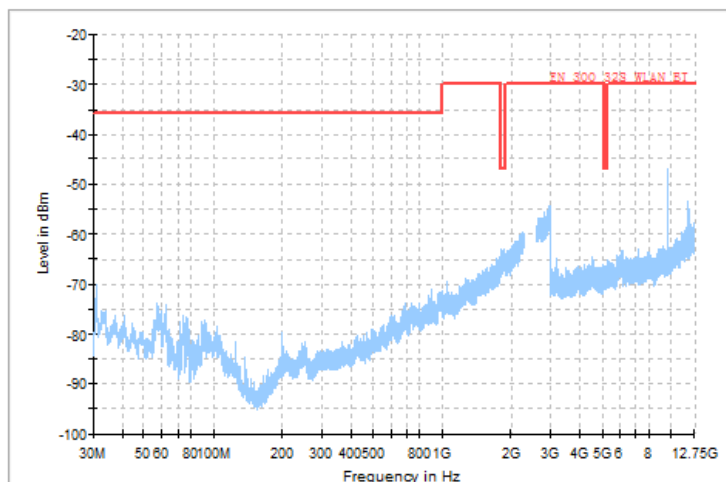
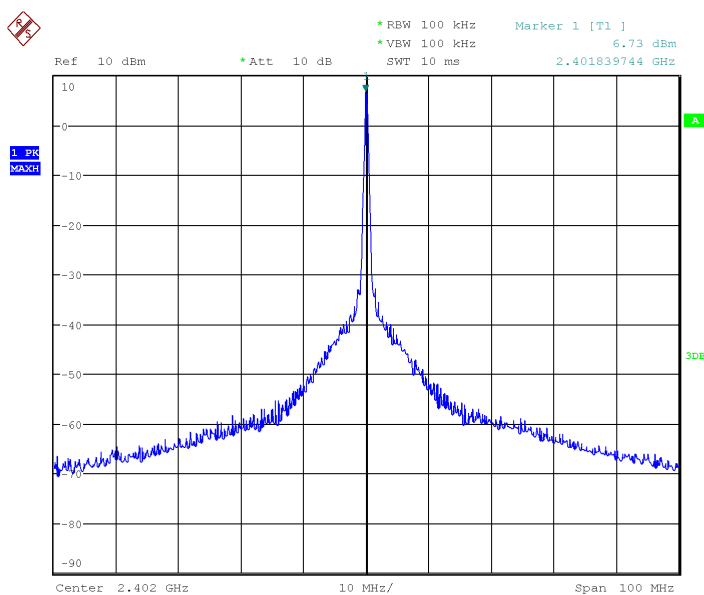


Fig. 40 Transmitter spurious emission: Radiated, Channel 0, 30MHz – 12.75GHz



Date: 31.DEC.2013 15:47:22

Fig. 41 Transmitter spurious emission: Conducted, Channel 0, GFSK, 2402MHz

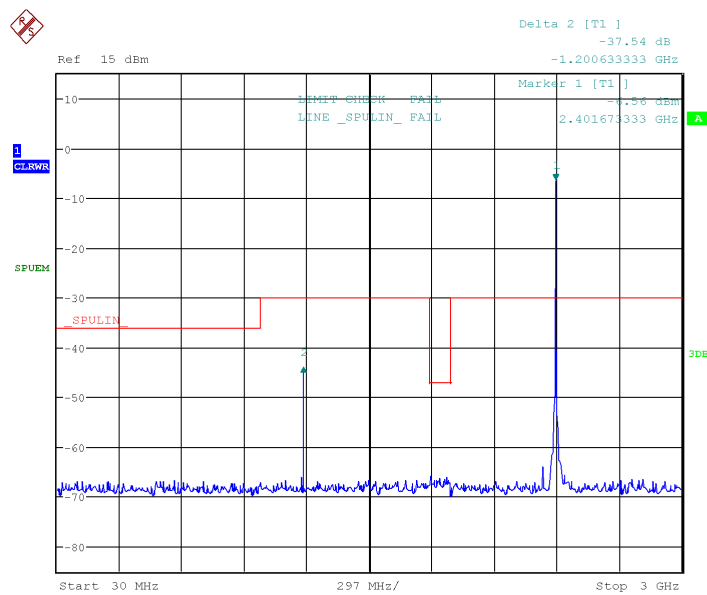


Fig. 42 Transmitter spurious emission: Conducted, Channel 0, GFSK, 30MHz - 3GHz

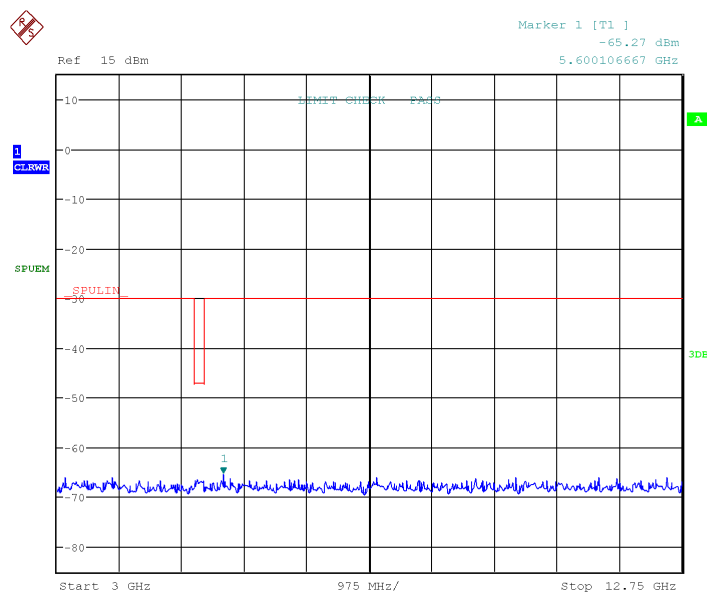
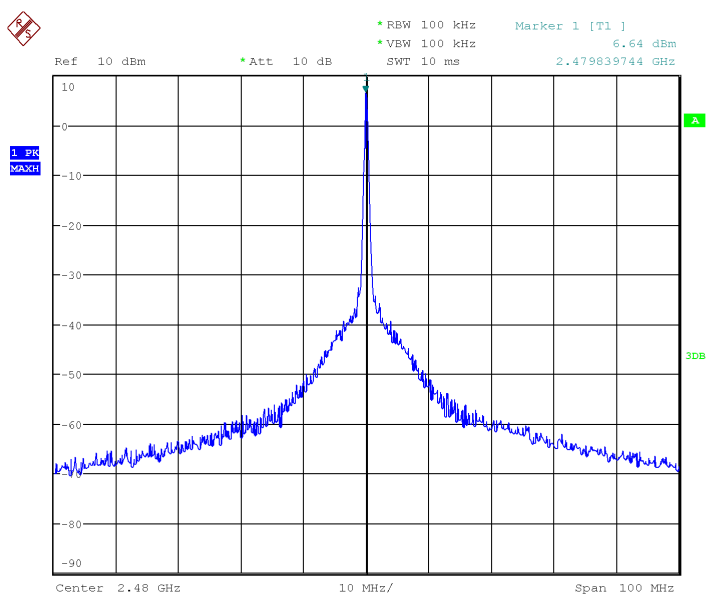
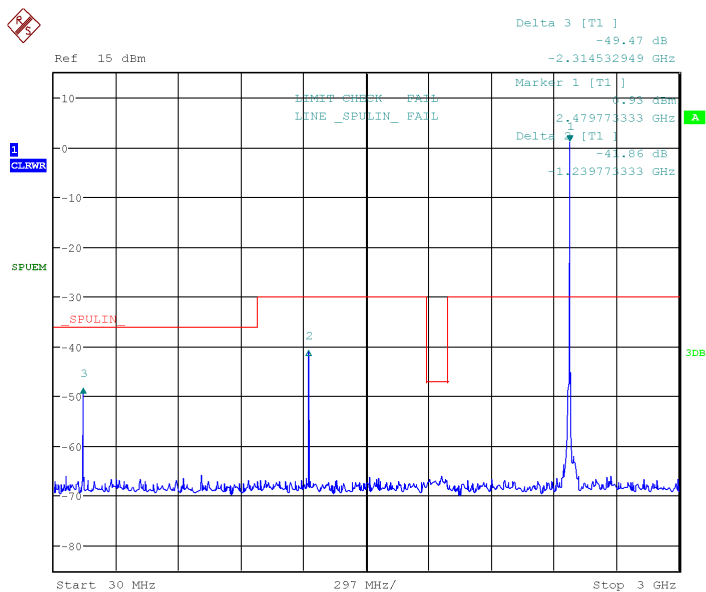


Fig. 43 Transmitter spurious emission: Conducted, Channel 0, GFSK, 3GHz - 12.75GHz



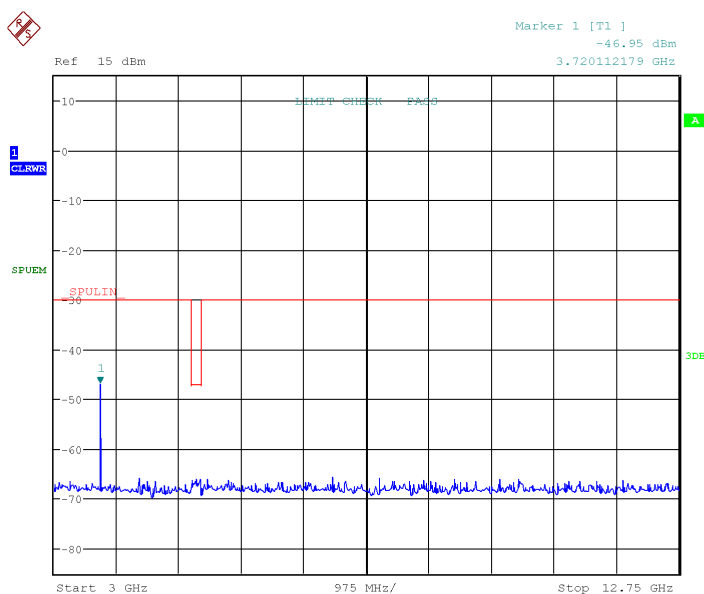
Date: 31.DEC.2013 15:49:12

Fig. 44 Transmitter spurious emission: Conducted, Channel 78, GFSK, 2480MHz



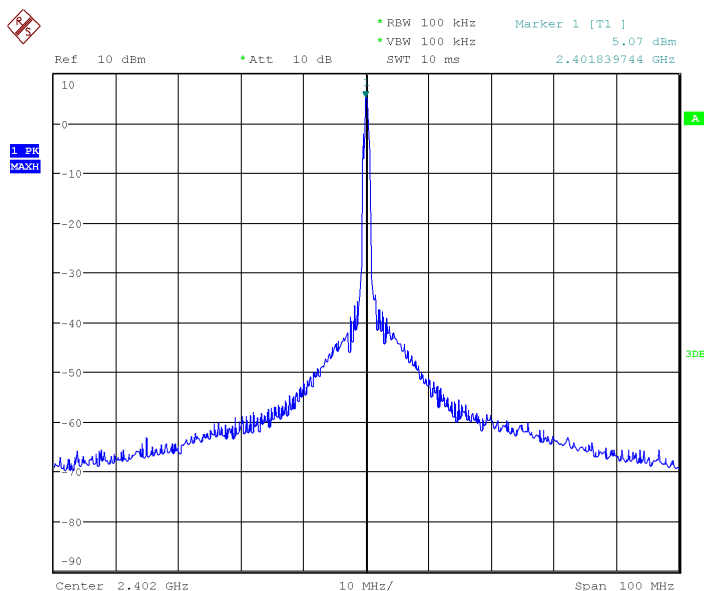
Date: 31.DEC.2013 15:49:33

Fig. 45 Transmitter spurious emission: Conducted, Channel 78, GFSK, 30MHz - 3GHz



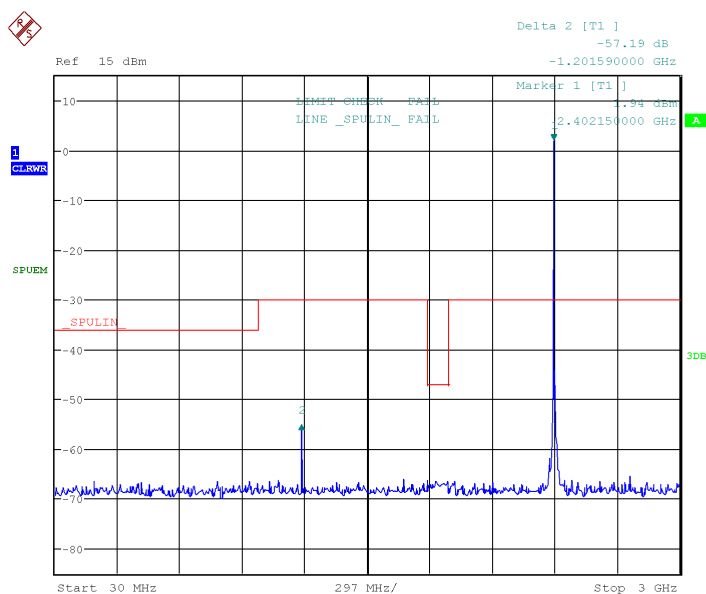
Date: 31.DEC.2013 15:49:50

Fig. 46 Transmitter spurious emission: Conducted, Channel 78, GFSK, 3GHz - 13GHz



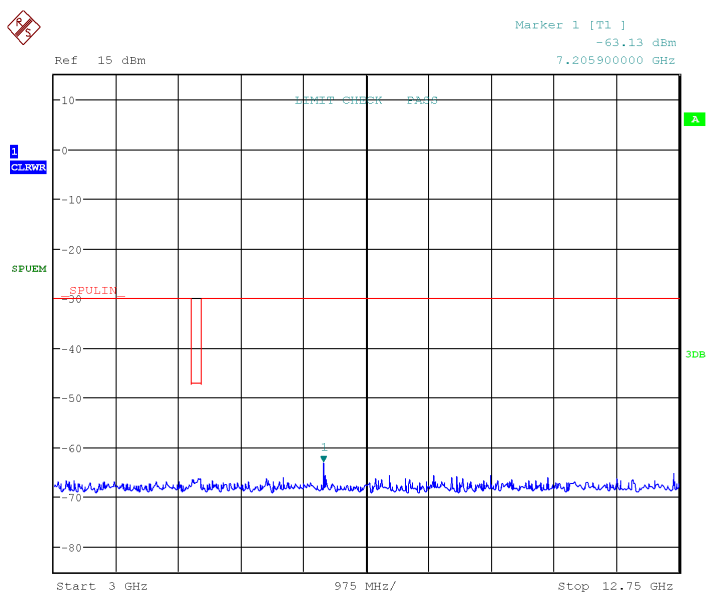
Date: 31.DEC.2013 16:00:23

Fig. 47 Transmitter spurious emission: Conducted, Channel 0, $\pi/4$ DQPSK, 2402MHz



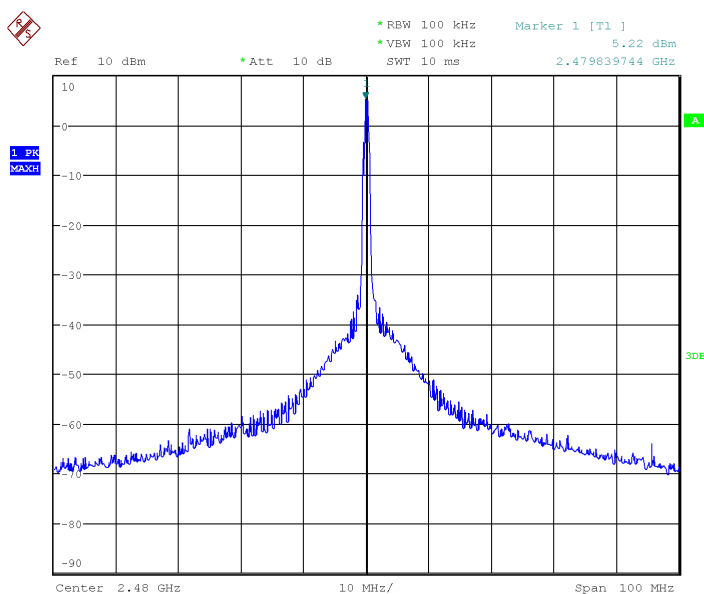
Date: 31.DEC.2013 16:00:44

Fig. 48 Transmitter spurious emission: Conducted, Channel 0, $\pi/4$ DQPSK, 30MHz - 3GHz



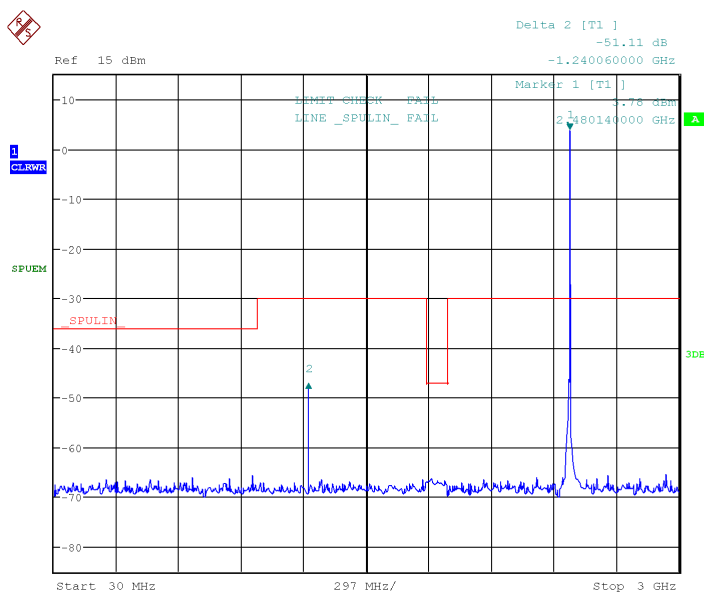
Date: 31.DEC.2013 16:01:25

Fig. 49 Transmitter spurious emission: Conducted, Channel 0, $\pi/4$ DQPSK, 3GHz – 12.75GHz



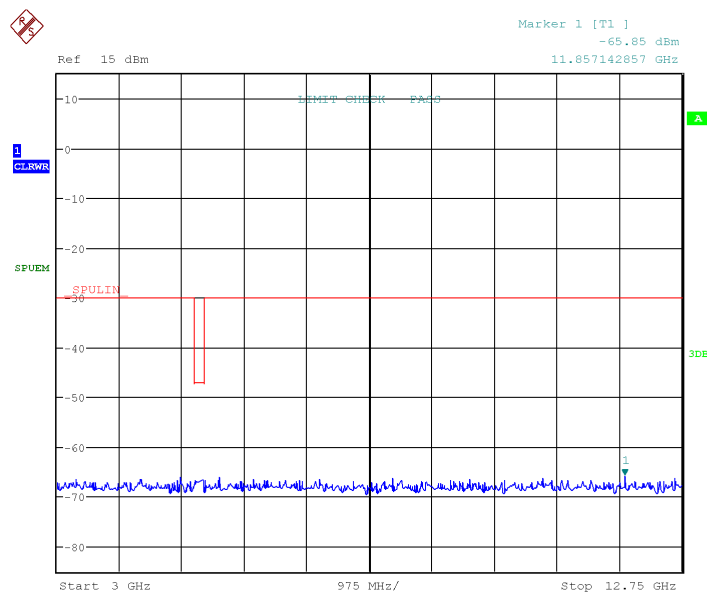
Date: 31.DEC.2013 16:02:25

Fig. 50 Transmitter spurious emission: Conducted, Channel 78, $\pi/4$ DQPSK, 2480MHz



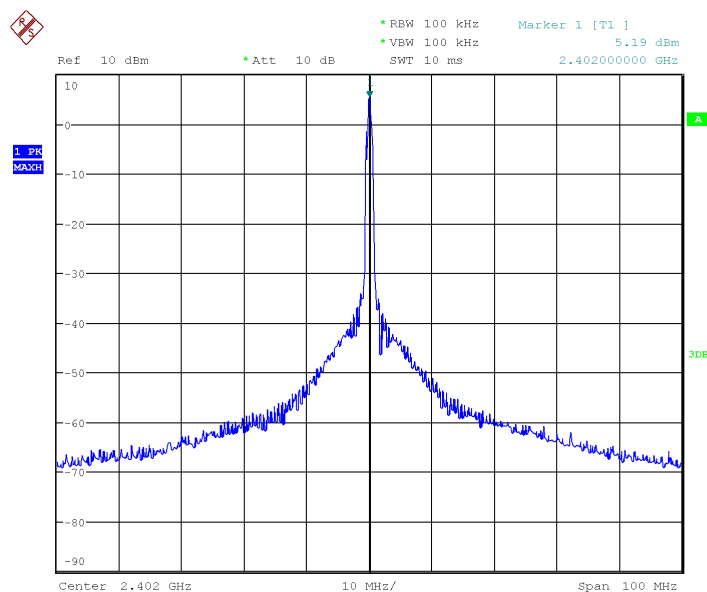
Date: 31.DEC.2013 16:02:47

Fig. 51 Transmitter spurious emission: Conducted, Channel 78, $\pi/4$ DQPSK, 30MHz - 3GHz



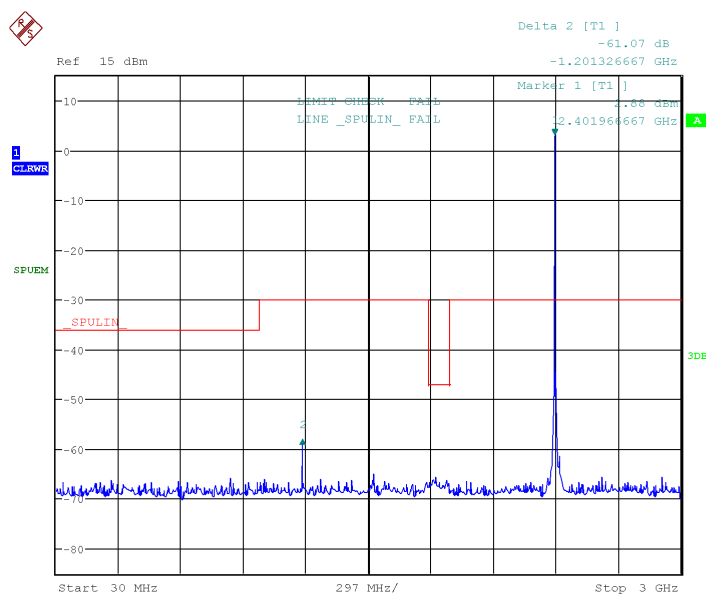
Date: 31.DEC.2013 16:03:04

Fig. 52 Transmitter spurious emission: Conducted, Channel 78, $\pi/4$ DQPSK, 3GHz – 12.75GHz



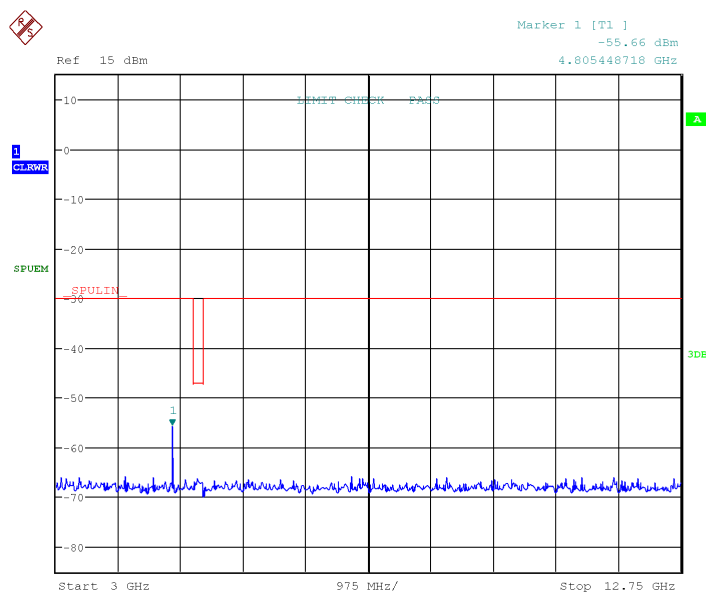
Date: 31.DEC.2013 16:05:34

Fig. 53 Transmitter spurious emission: Conducted, Channel 0, 8DPSK, 2402MHz



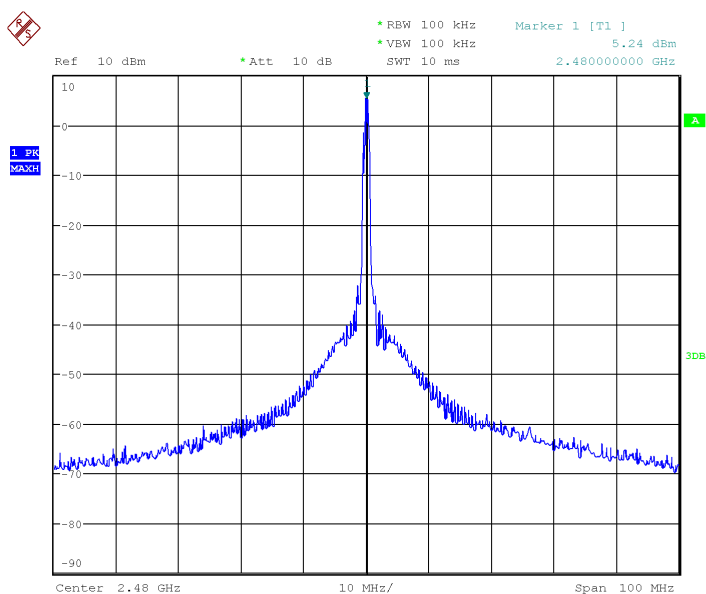
Date: 31.DEC.2013 16:05:58

Fig. 54 Transmitter spurious emission: Conducted, Channel 0, 8DPSK, 30MHz - 3GHz



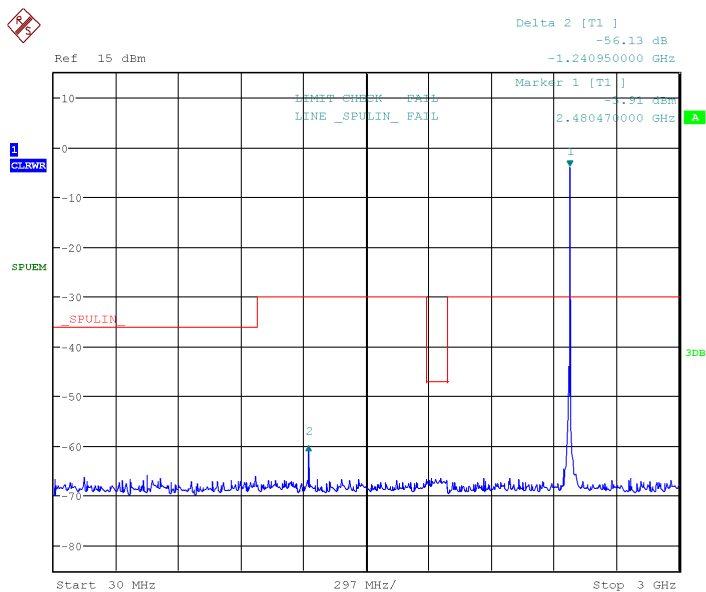
Date: 31.DEC.2013 16:06:23

Fig. 55 Transmitter spurious emission: Conducted, Channel 0, 8DPSK, 3GHz - 12.75GHz



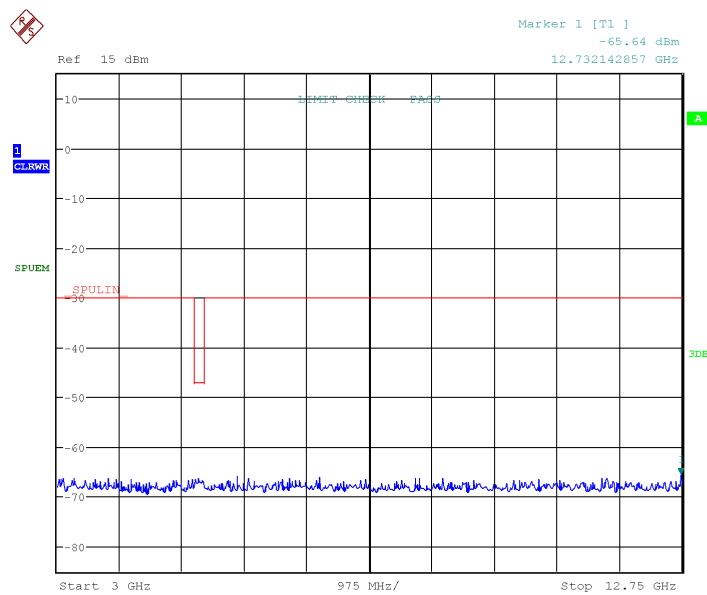
Date: 31.DEC.2013 16:08:52

Fig. 56 Transmitter spurious emission: Conducted, Channel 78, 8DPSK, 2480MHz



Date: 31.DEC.2013 16:13:44

Fig. 57 Transmitter spurious emission: Conducted, Channel 78, 8DPSK, 30MHz - 3GHz



Date: 31.DEC.2013 16:14:07

Fig. 58 Transmitter spurious emission: Conducted, Channel 78, 8DPSK, 3GHz - 12.75GHz

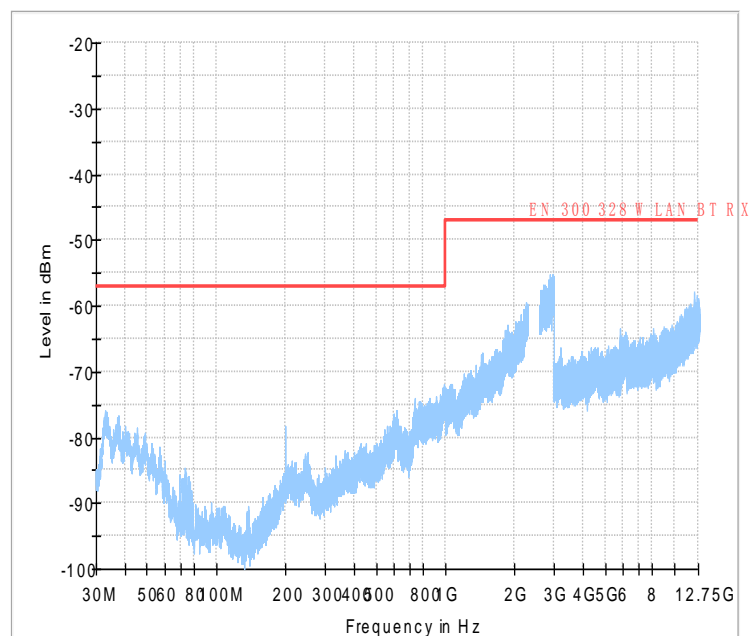
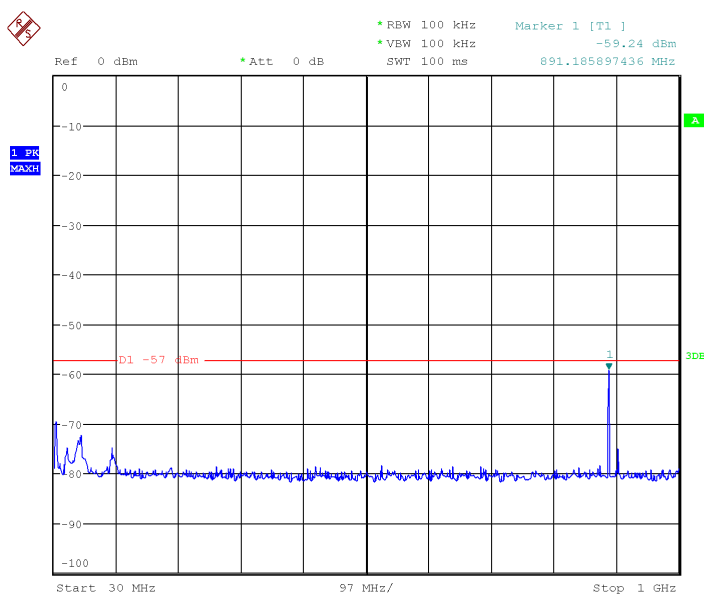
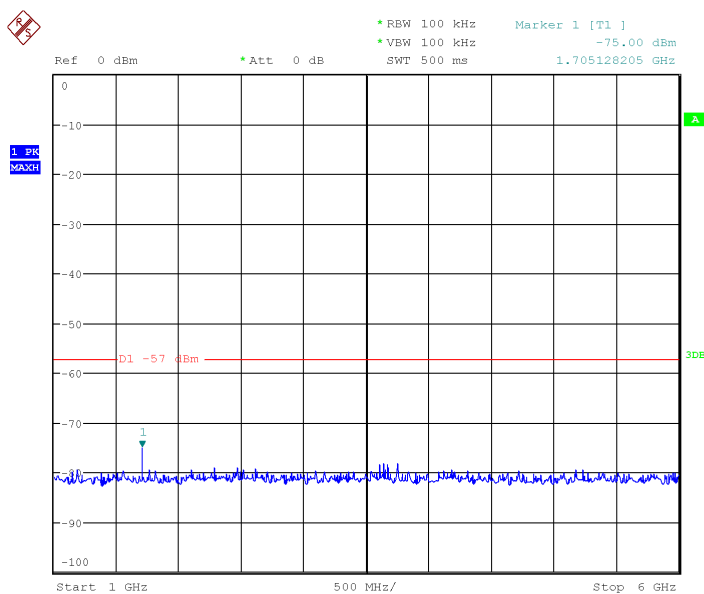


Fig. 59 Receiver Spurious Emissions: Radiated, Channel 0, 30MHz - 12.75GHz



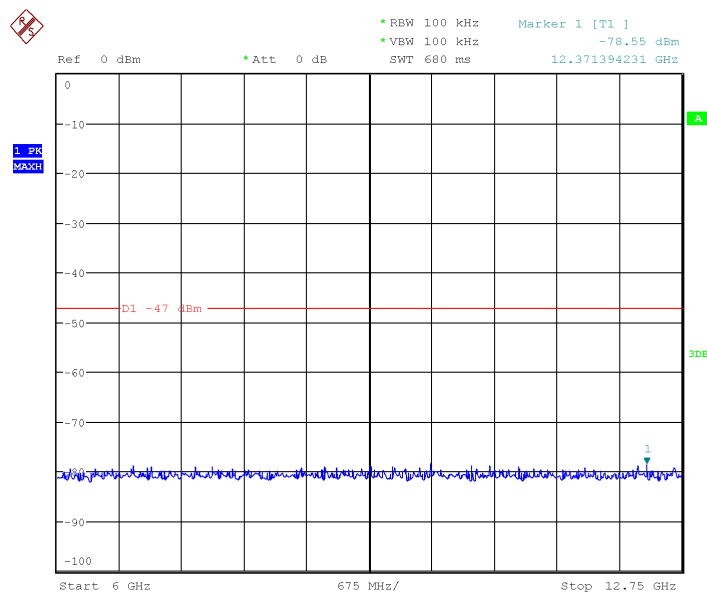
Date: 31.DEC.2013 16:17:31

Fig. 60 Receiver spurious emission: Conducted, Idle, 30MHz - 1GHz



Date: 31.DEC.2013 16:17:45

Fig. 61 Receiver spurious emission: Conducted, Idle, 1GHz - 6GHz



Date: 31.DEC.2013 16:17:59

Fig. 62 Receiver spurious emission: Conducted, Idle, 6GHz – 12.75GHz

ANNEX B: EUT Photos

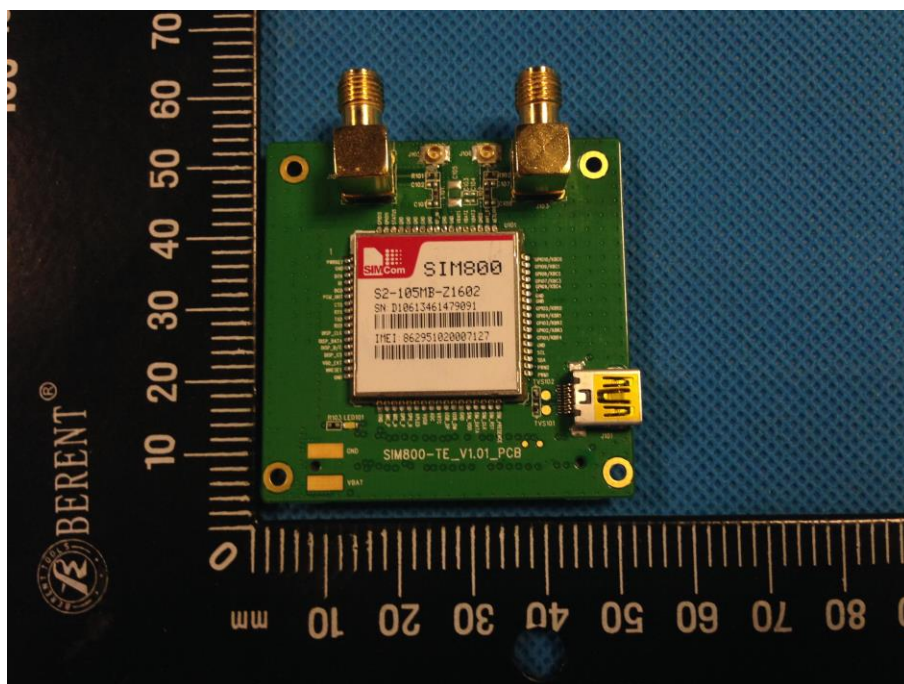


Fig.63 Front view

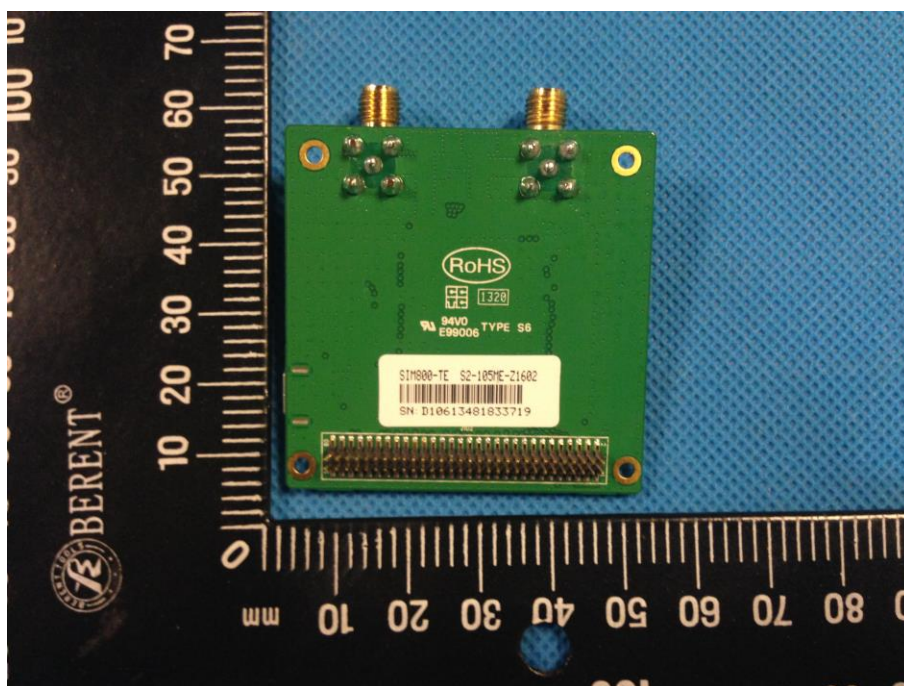


Fig.64 Back view

ANNEX C: Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****End the Report*****