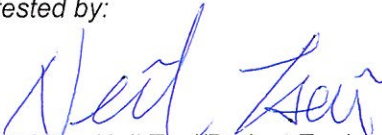
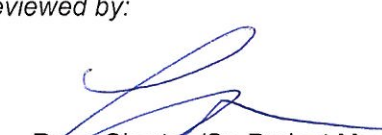


Produkte
Products

Prüfbericht - Nr.: 10041106 001			Seite 1 von 44 Page 1 of 44		
Test Report No.:					
Auftraggeber: Comvox Audio Co., LTD					
<i>Client:</i>			1F, No. 82, Long-Fong 3rd St., Taoyuan City, Taoyuan County, 330 Taiwan, R.O.C.		
Gegenstand der Prüfung: Bluetooth dongle					
<i>Test item:</i>					
Bezeichnung: XRD-BT		Serien-Nr.: N/A			
<i>Identification:</i>		<i>Serial No.:</i>			
Wareneingangs-Nr.: 800016948		Eingangsdatum: 2013/03/25			
<i>Receipt No.:</i>		<i>Date of receipt:</i>			
Zustand des Prüfgegenstandes bei Anlieferung:			The sample is ok for testing and not damaged		
<i>Condition of test item at delivery:</i>					
Prüfört: TÜV Rheinland Taiwan Ltd.					
<i>Testing location:</i>			11F., No.758, Sec. 4, Bade Rd., Songshan Dist., Taipei City 105 Taiwan FCC Registration No.: 365730		
Prüfgrundlage: FCC CFR47 Part 15: Subpart C Section 15.247					
<i>Test specification:</i>			RSS-210 (Issue 8): Dec. 2010 RSS-Gen (Issue 3): Dec. 2010		
Prüfergebnis: Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).					
<i>Test Result:</i>			<i>The test item passed the test specification(s).</i>		
Prüflaboratorium: TÜV Rheinland Taiwan Ltd.					
<i>Testing Laboratory:</i>			11F., No.758, Sec. 4, Bade Rd., Songshan Dist., Taipei City 105, Taiwan, R.O.C.		
geprüft/ tested by:			kontrolliert/ reviewed by:		
					
2013-04-09 Neil Tsai/Project Engineer			2013-04-19 Rene Charton/Sr. Project Manager		
Datum	Name/Stellung	Unterschrift	Datum	Name/Stellung	Unterschrift
<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>	<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>
Sonstiges/ Other Aspects:					
Abkürzungen: P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet			Abbreviations: P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested		
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test item. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>					

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Passed

5.1.2 PEAK OUTPUT POWER

RESULT: Passed

5.1.3 20dB BANDWIDTH

RESULT: Passed

5.1.4 99% BANDWIDTH

RESULT: Passed

5.1.5 CONDUCTED SPURIOUS EMISSIONS AND FREQUENCY BAND EDGE MEASURED IN 100KHz BANDWIDTH

RESULT: Passed

5.1.6 SPURIOUS EMISSION

RESULT: Passed

5.1.7 FREQUENCY SEPARATION

RESULT: Passed

5.1.8 NUMBER OF HOPPING FREQUENCY

RESULT: Passed

5.1.9 TIME OF OCCUPANCY

RESULT: Passed

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Passed

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Photo

(File:10041106APPENDIX1)

Appendix 2: Test Result of Radiated Emissions

(File:10041106APPENDIX2)

Test Specifications

The following standards were applied (in bold: product standards, otherwise: basic standards).

Table 1: Applied Standard and Test Levels

Radio
FCC CFR47 Part 15: Subpart C Section 15.247

2. Test Sites

2.1 Test Facilities

TUV Rheinland Taiwan Ltd.

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)
FCC Registration No.: 365730

2.2 List of Test and Measurement Instruments

Table 2: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	R&S	ESCI 7	1166.5950K07-100797-Pt	20-Dec-13
Bilog Antenna	TESEQ	CBL6111D	29802	29-Jun-13
Pre-Amplifier	HP	8447F	2805A03335	14-Sep-13
Spectrum Analyzer	R&S	FSV 40	100921	13-Dec-13
Horn Antenna (1GHz~18GHz)	COM-POWER	AHA118	701251	28-Sep-13
Horn Antenna (18GHz~40GHz)	COM-POWER	AH840	101031	2-Nov-13
Preamplifier (30MHz -1GHz)	HP	8447F	2805A03335	14-Sep-13
Preamplifier (18 GHz -40 GHz)	COMPOWER	PAM-840	461257	17-Sep-13
Temp. & Humid. Chamber	Giant Force	GCT-099-40-S	MAF0103-007	13-May-13
Signal Generator	R&S	SMU200	104260	13-Aug-13
Loop Antenna	Schwarzbeck	FMZB 1513	1513-076	28-Sep-13

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3\text{dB}$.

Table 3: Emission Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-7}$
RF power, conducted	$\pm 1 \text{ dB}$
Adjacent channel power	$\pm 3 \text{ dB}$
Radiated emission of transmitter, valid up to 26 GHz	$\pm 6 \text{ dB}$
Radiated emission of receiver, valid up to 26 GHz	$\pm 6 \text{ dB}$
Temperature	$\pm 2 \text{ }^{\circ}\text{C}$
Humidity	$\pm 10 \text{ \%}$

3. General Product Information

3.1 Product Function and Intended Use

The tested sample is a “Bluetooth dongle”, which is intended for connect with an iDevice (iPhone or iPod) to enable the Bluetooth function to receive the audio, and connected to a speaker to play music.
For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 Ratings and System Details

Table 4: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Bluetooth dongle
Brand Name	Comvox Audio Co., LTD
FCC ID	RAEXRD-BT
IC ID	11042A-XRDBT
Type Designation	XRD-BT
Operating Frequency	2402 MHz ~ 2480 MHz
Channel Spacing	1 MHz
Channel number	79
Operation Voltage	5Vdc, 1A
Modulation	GFSK, $\pi/4$ QPSK, 8 DPSK
Antenna Type	PCB Layout Antenna (BCK18_C5M_V1_PCB Antenna)
Antenna gain	2 dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. Receiving
- C. Standby
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------|
| - Bill of Material | - Circuit Diagram |
| - PCB Layout | - Instruction Manual |
| - Photo Document | - Rating Label |
| - Technical Description | |

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 4.

Full test was applied on all test modes, but only worst case was shown.

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Kind of Equipment	Manufacturer	Model Name	S/N
Laptop	MSI	MSI4532 (CX420MX)	CX420 MX-233TWK 1008000096

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

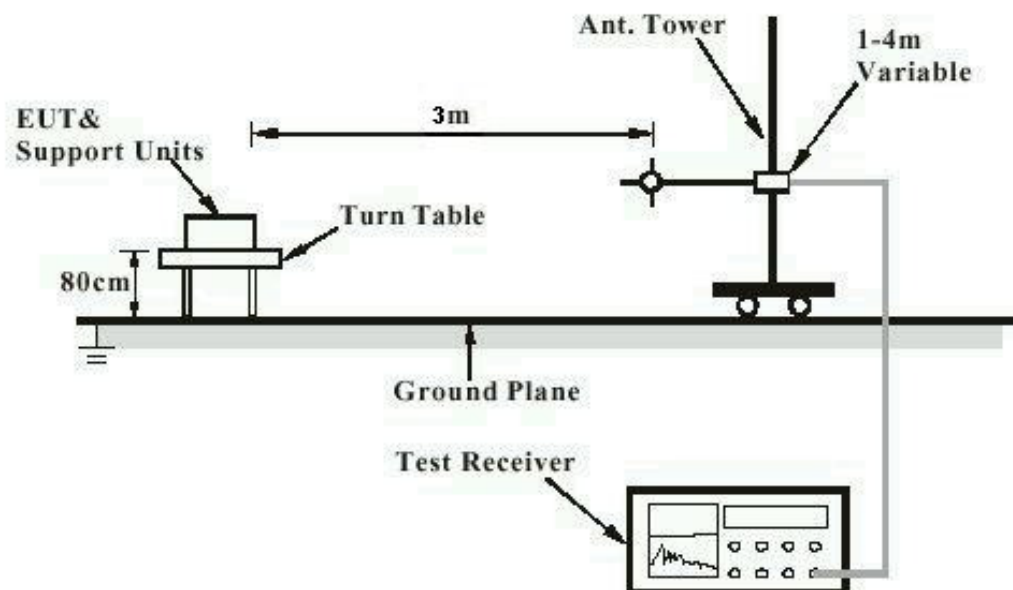


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

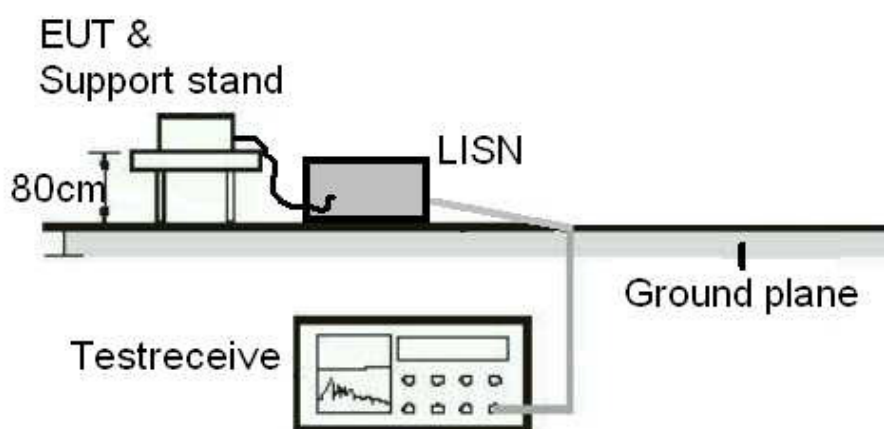
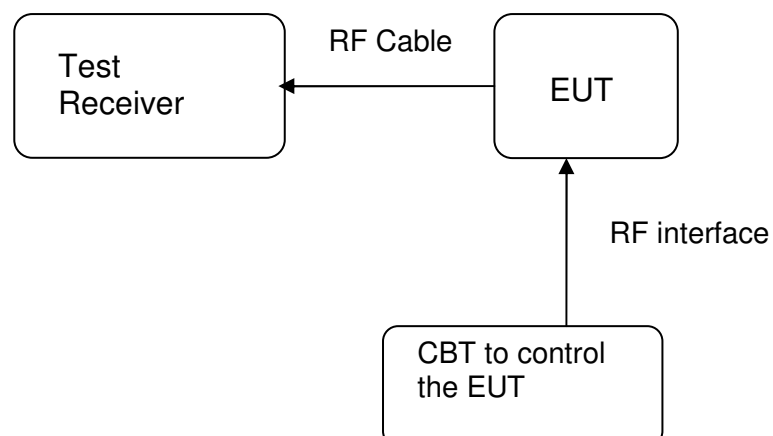


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test date	:	2013-03-19
Test standard	:	FCC Part 15.247(b)(4), Part 15.203 and RSS-Gen 7.1.4
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declaration, the EUT has an internal antenna with an directional gain of 2 dBi, and the antenna is a printed PCB trace with no possibility of replacement. Therefore, the EUT is considered to comply the provision.

Refer to EUT photo for details.

5.1.2 Peak Output Power

RESULT:
Passed

Test date : 2013-03-19
 Test standard : FCC Part 15.247(b)(1), RSS-210 A8.4(2)
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 22°C
 Relative humidity : 52%
 Atmospheric pressure : 102 kPa

Table 5: Test result of Peak Output Power, GFSK modulation

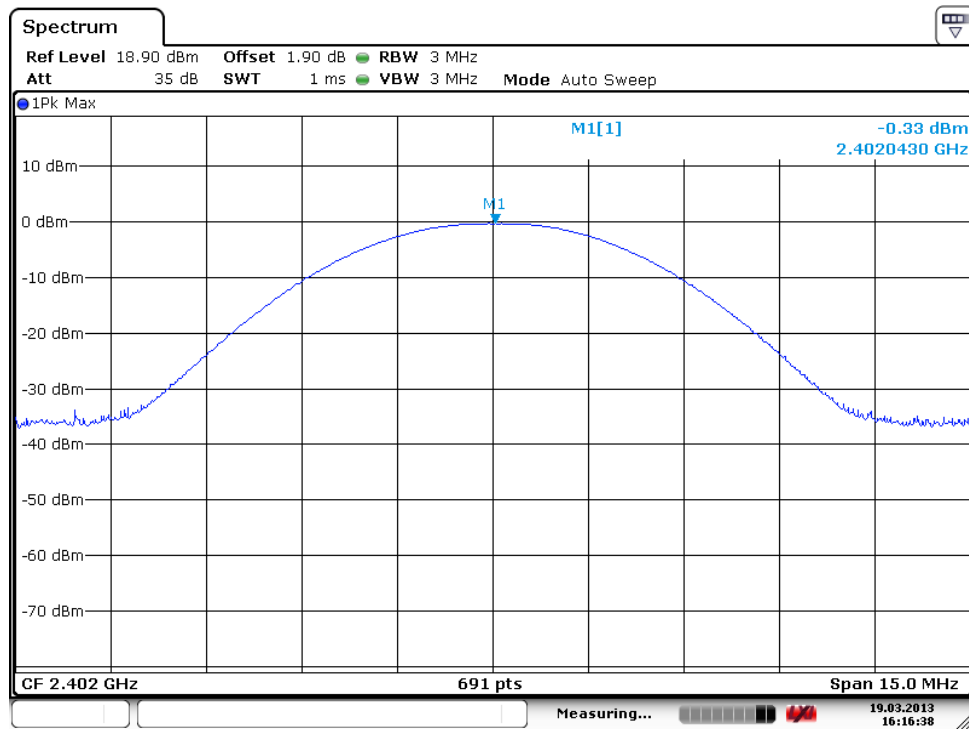
Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	-0.33	0.0009	0.125
Middle Channel	2441	-1.09	0.0008	0.125
High Channel	2480	-2.47	0.0006	0.125

Table 6: Test result of Peak Output Power, 8DPSK modulation

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	-0.04	0.0010	0.125
Middle Channel	2441	-1.12	0.0008	0.125
High Channel	2480	-2.61	0.0005	0.125

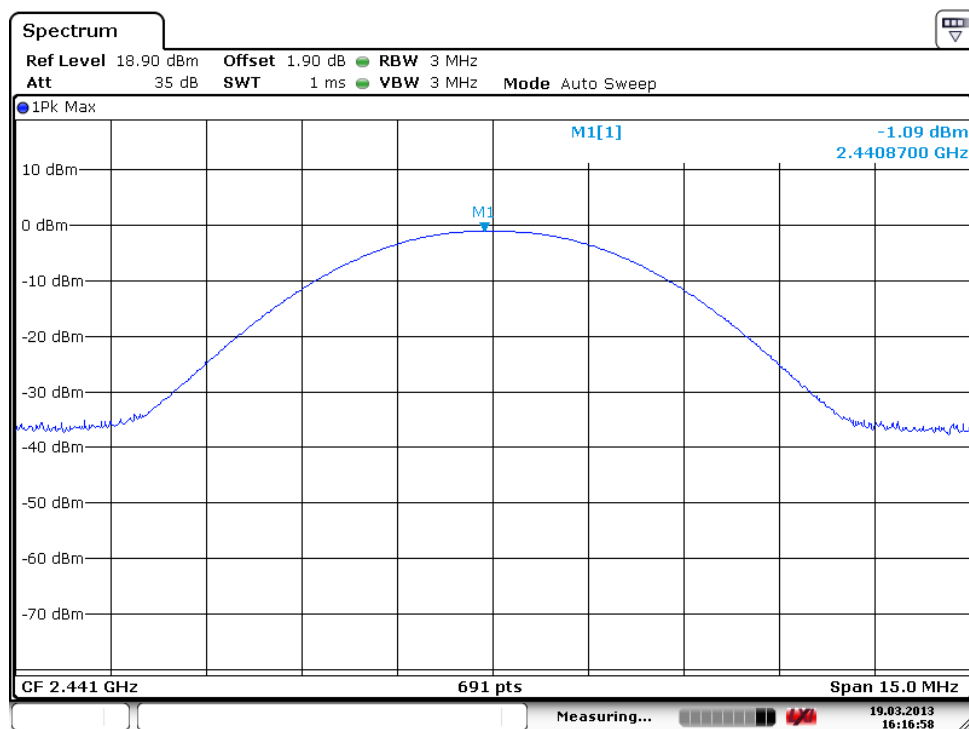
Test Plot of Peak Output Power, GFSK modulation

Low Channel



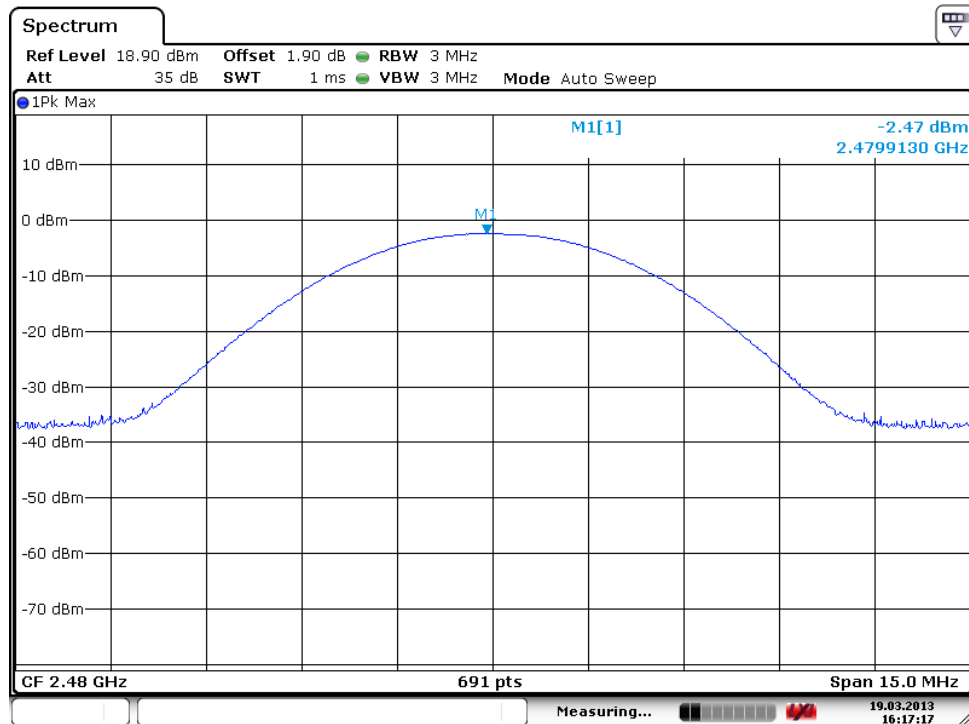
Date: 19.MAR.2013 16:16:38

Middle Channel



Date: 19.MAR.2013 16:16:58

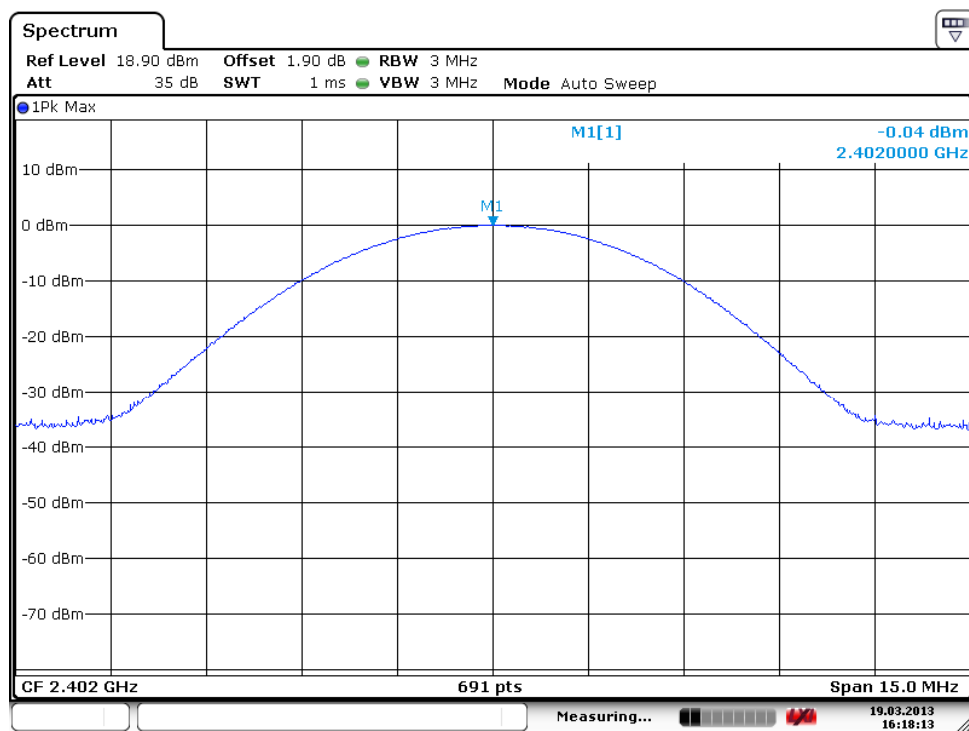
High Channel



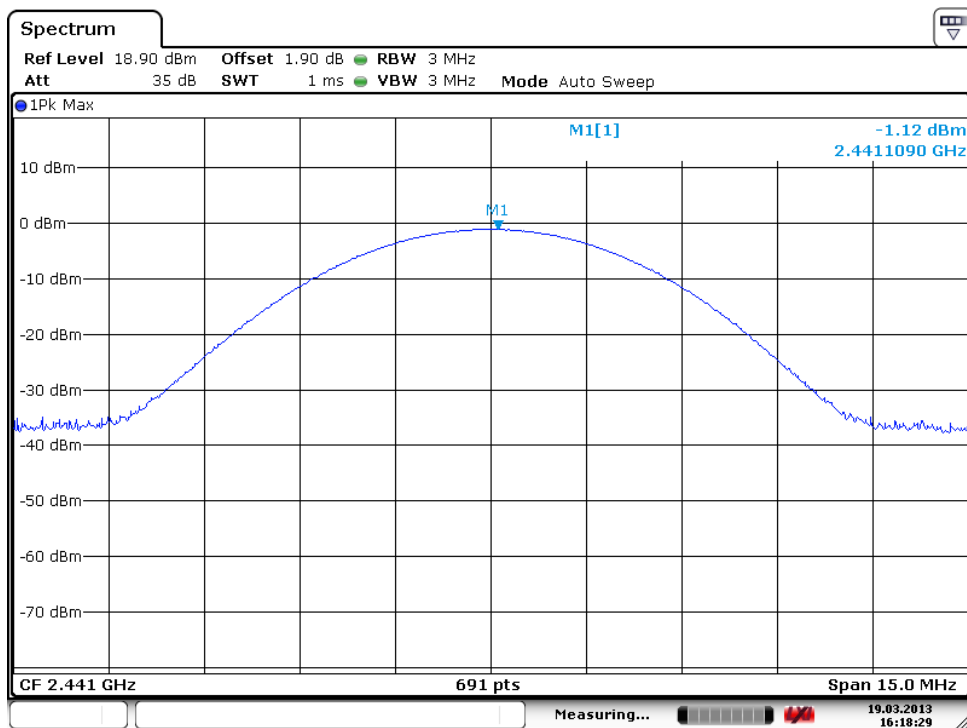
Date: 19.MAR.2013 16:17:17

Test Plot of Peak Output Power, 8DPSK modulation

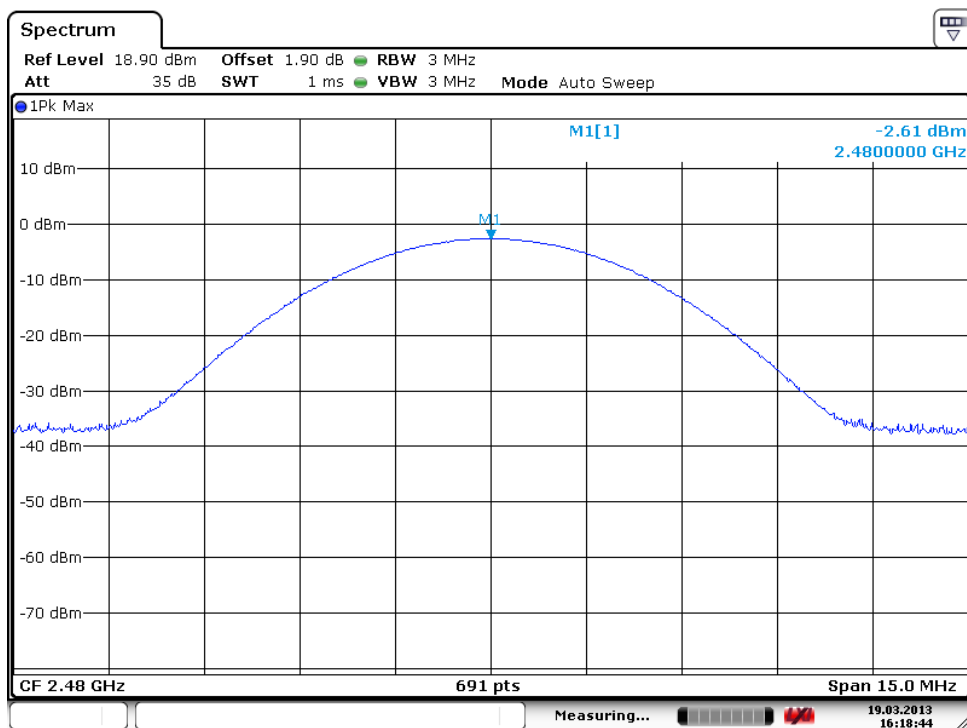
Low Channel



Date: 19.MAR.2013 16:18:13

Middle Channel


Date: 19.MAR.2013 16:18:29

High Channel


Date: 19.MAR.2013 16:18:44

5.1.3 20dB Bandwidth

RESULT:
Passed

Date of testing : 2013-03-19
 Test standard : FCC Part 15.247(a)(1), RSS-210 A8.1(a)
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 24°C
 Relative humidity : 53%
 Atmospheric pressure : 102 kPa

Table 7: Test result of 20dB Bandwidth, GFSK modulation

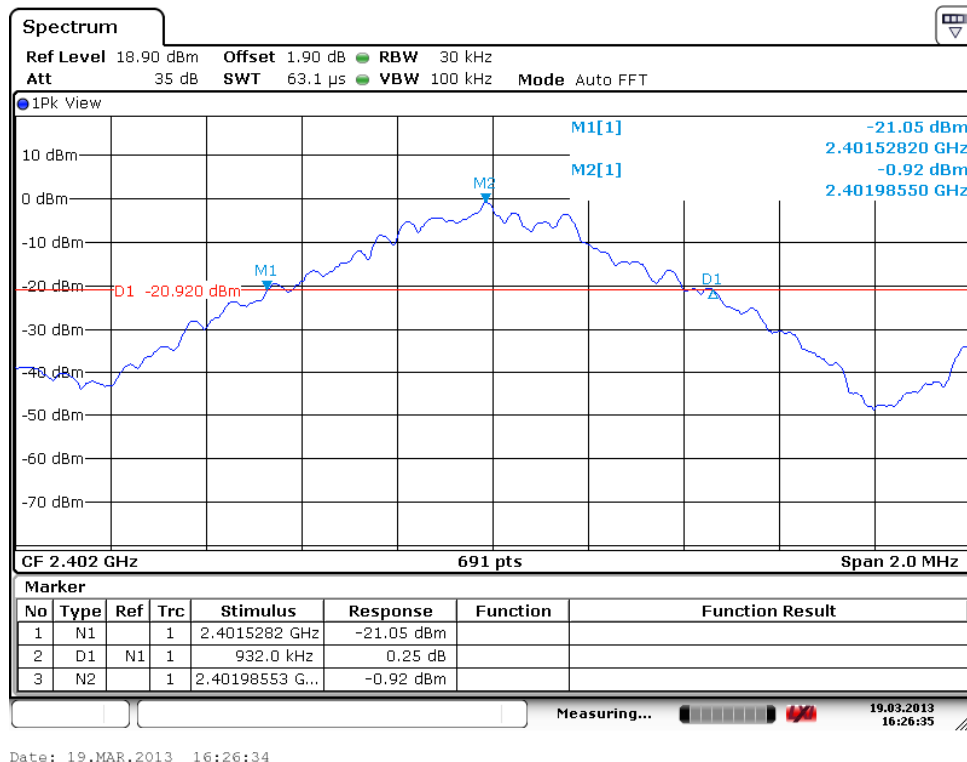
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	932.0	/	Pass
Mid Channel	2441	932.0	/	Pass
High Channel	2480	934.9	/	Pass

Table 8: Test result of 20dB Bandwidth, 8DPSK modulation

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Result
Low Channel	2402	1.2590	/	Pass
Mid Channel	2441	1.2677	/	Pass
High Channel	2480	1.2735	/	Pass

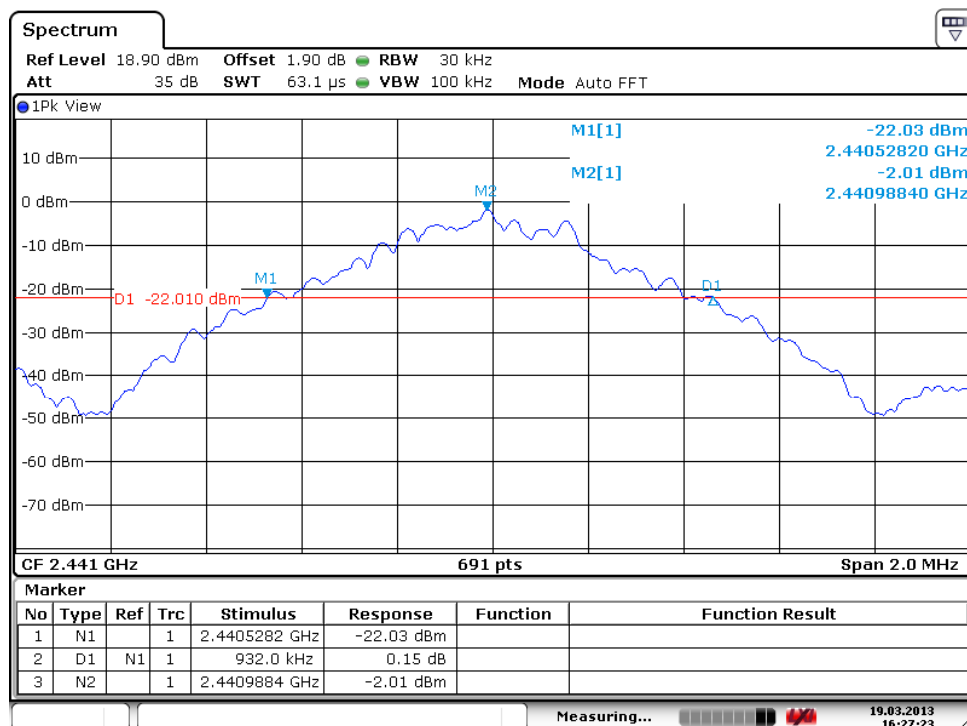
Test Plot of 20dB Bandwidth, GFSK modulation

Low Channel



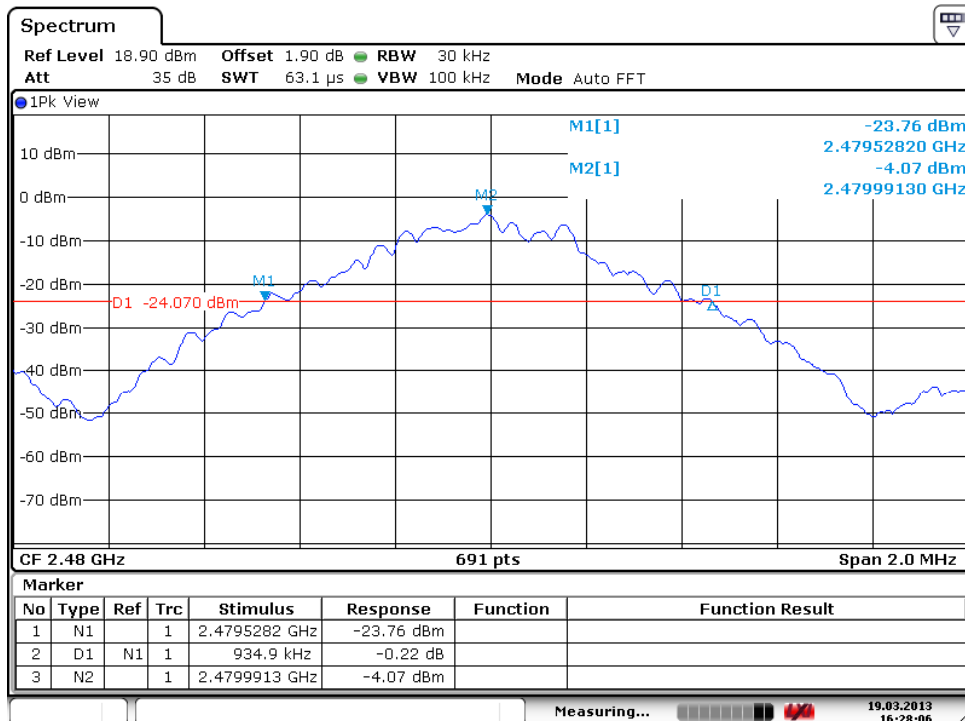
Date: 19.MAR.2013 16:26:34

Middle Channel



Date: 19.MAR.2013 16:27:23

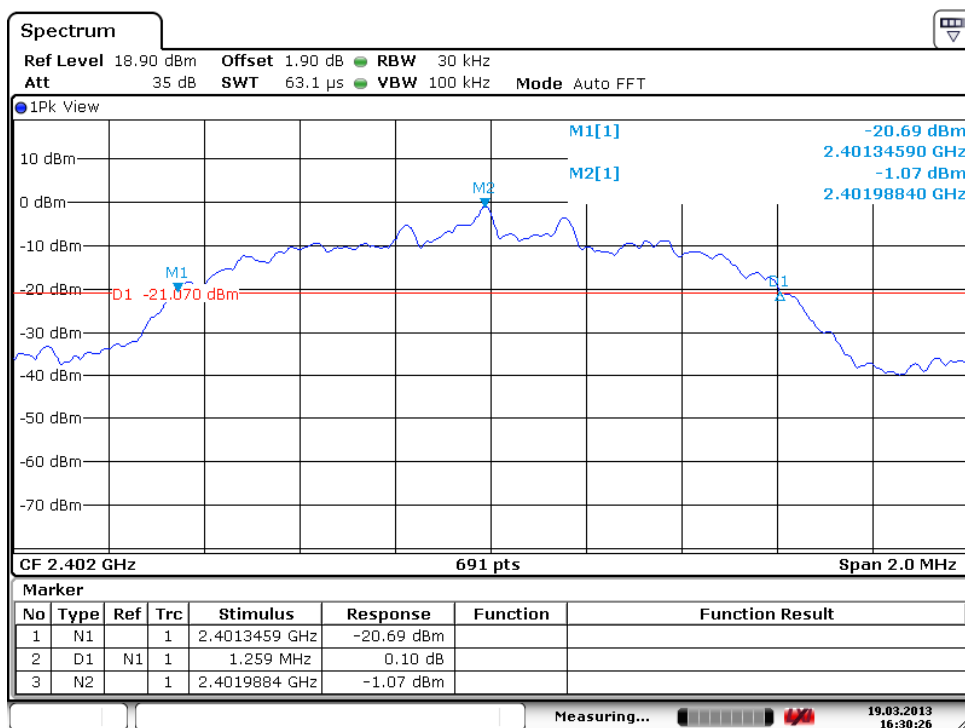
High Channel



Date: 19.MAR.2013 16:28:05

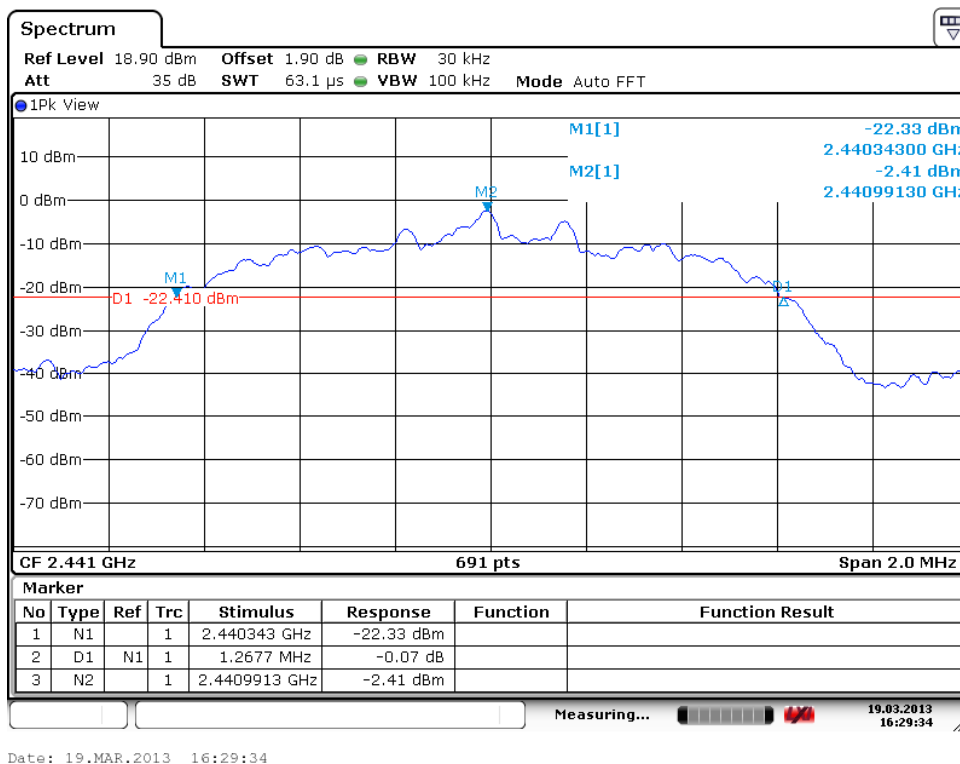
Test Plot of 20dB Bandwidth, 8DPSK modulation

Low Channel

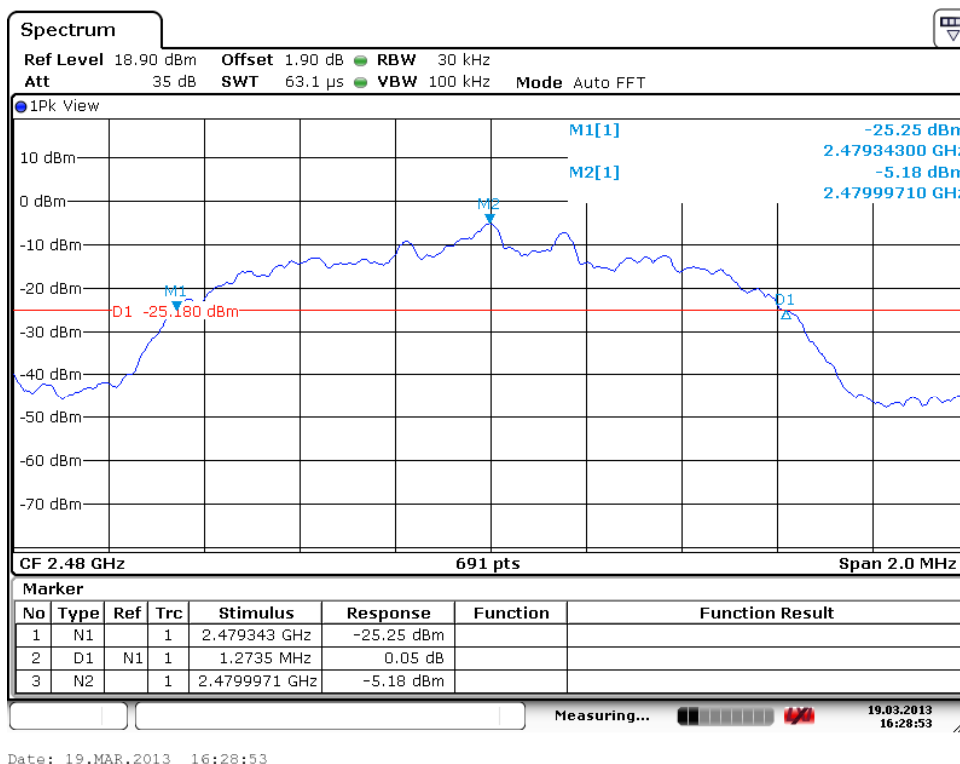


Date: 19.MAR.2013 16:30:25

Middle Channel



High Channel



5.1.4 99% Bandwidth

RESULT:
Passed

Date of testing : 2013-03-19
 Test standard : RSS-Gen (Issue 3) Dec. 2010
 Basic standard : RSS-Gen (Issue 3) Dec. 2010
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 24°C
 Relative humidity : 53%
 Atmospheric pressure : 102 kPa

Table 9: Test result of 20dB Bandwidth, GFSK modulation

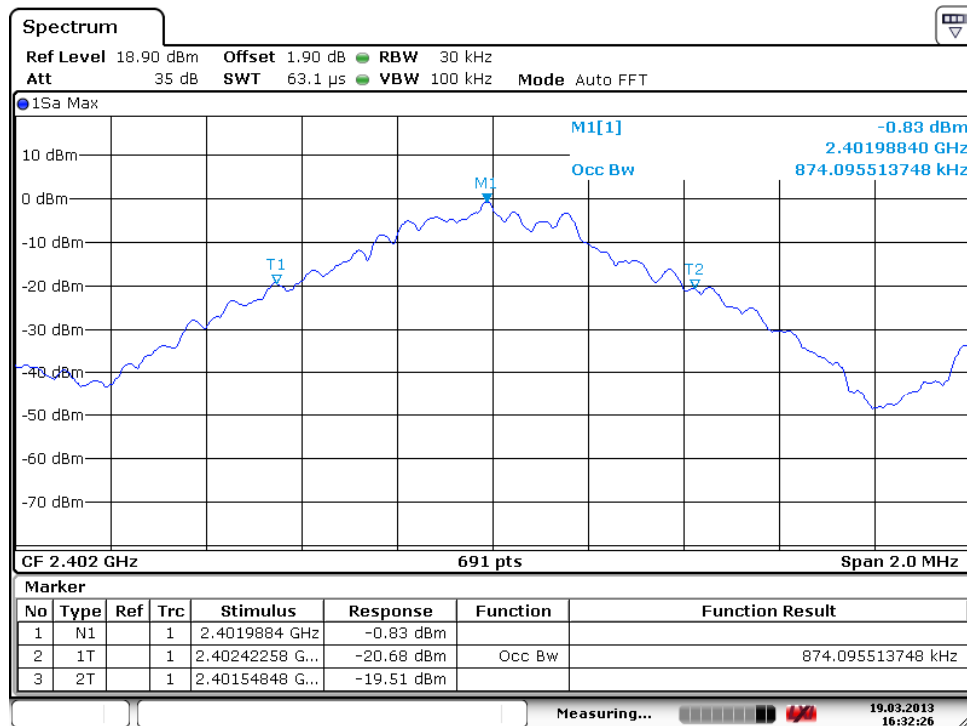
Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	874.095	/	Pass
Mid Channel	2441	868.306	/	Pass
High Channel	2480	871.201	/	Pass

Table 10: Test result of 20dB Bandwidth, 8DPSK modulation

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Result
Low Channel	2402	1.2069	/	Pass
Mid Channel	2441	1.1924	/	Pass
High Channel	2480	1.1780	/	Pass

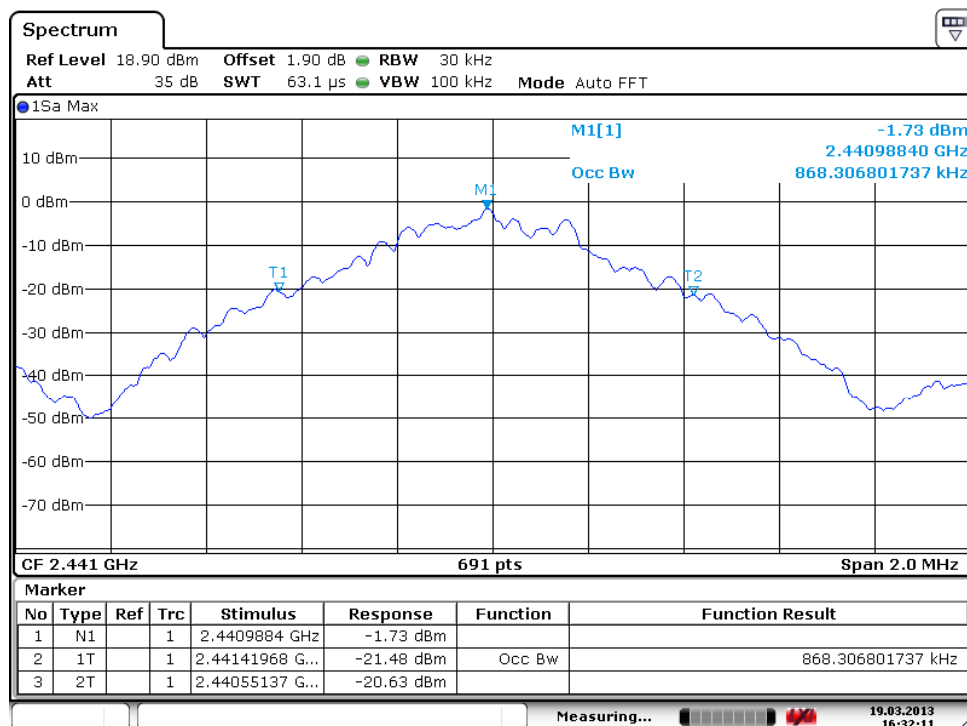
Test Plot of 99% Bandwidth, GFSK modulation

Low Channel



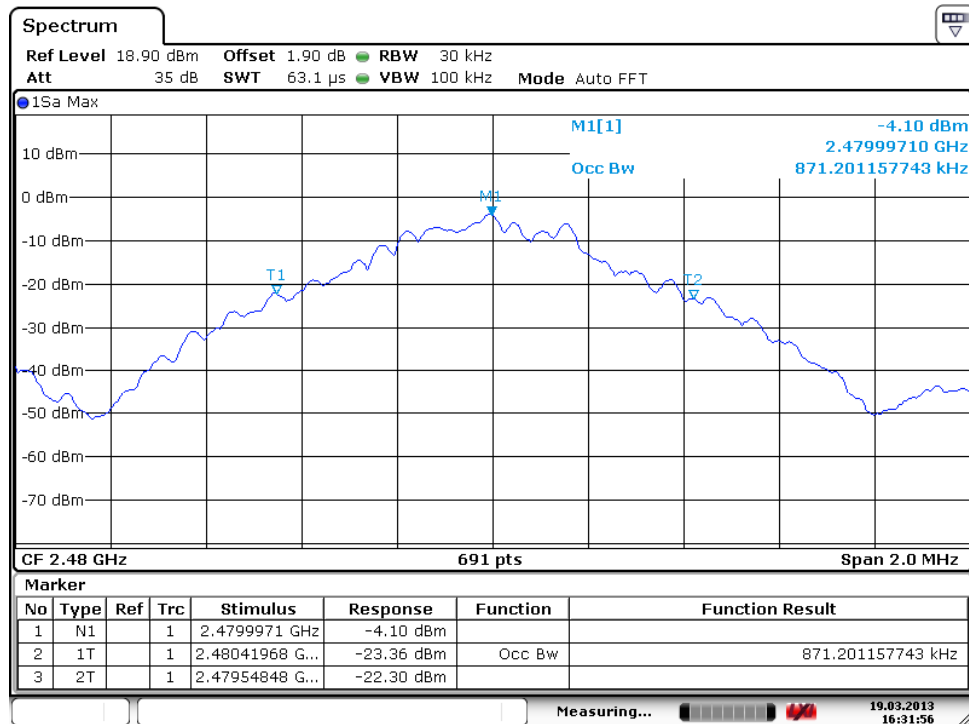
Date: 19.MAR.2013 16:32:26

Middle Channel



Date: 19.MAR.2013 16:32:10

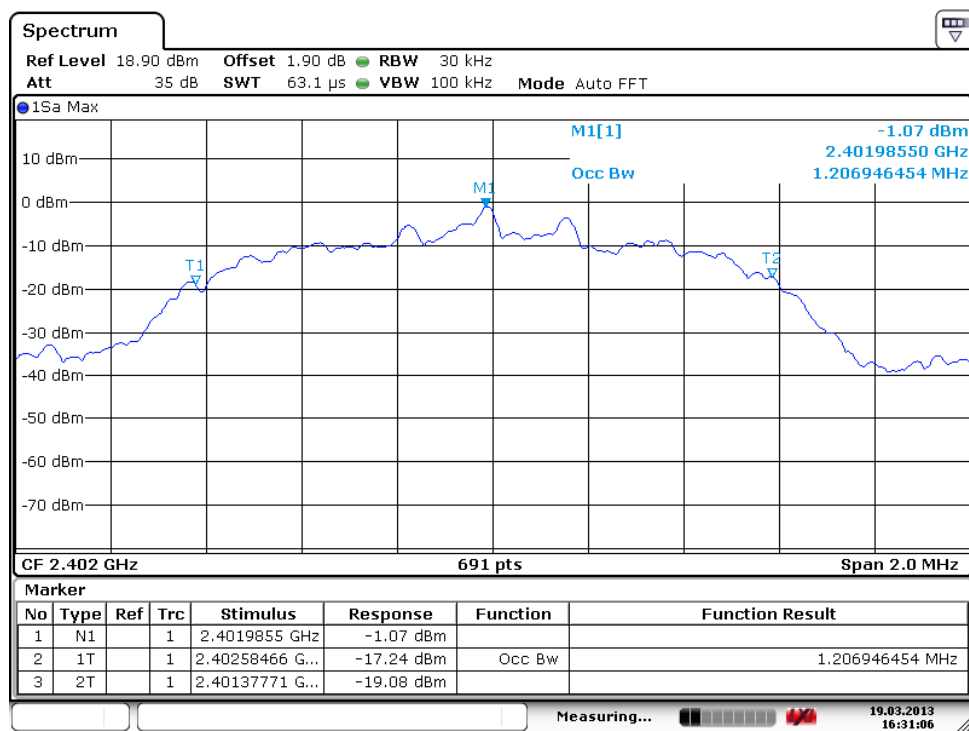
High Channel



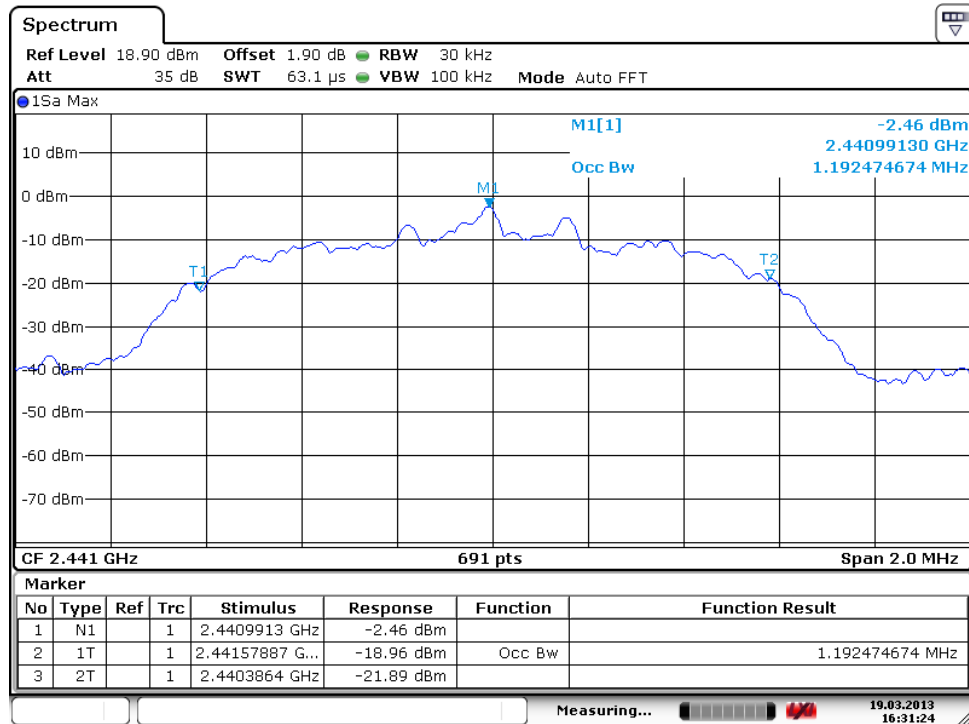
Date: 19.MAR.2013 16:31:55

Test Plot of 99% Bandwidth, 8DPSK modulation

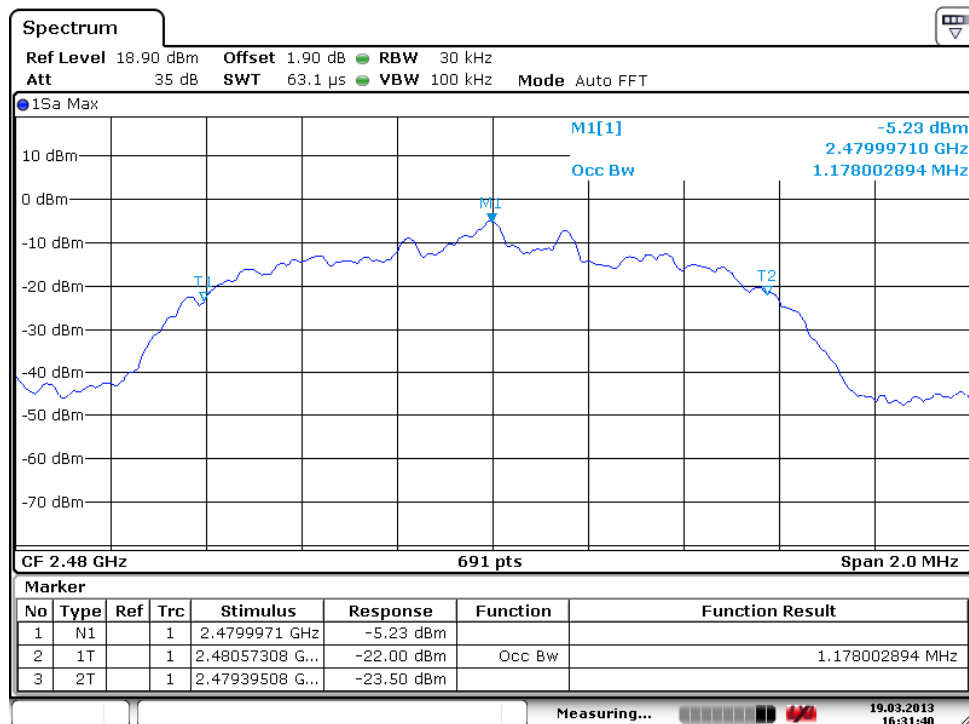
Low Channel



Date: 19.MAR.2013 16:31:06

Middle Channel


Date: 19.MAR.2013 16:31:24

High Channel


Date: 19.MAR.2013 16:31:40

Prüfbericht - Nr.: 10041106 001

Test Report No.

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5.1.5 Conducted spurious emissions and Frequency Band Edge measured in 100kHz Bandwidth

RESULT:**Passed**

Date of testing	:	2013-03-19
Test standard	:	FCC part 15.247(d), RSS-210 A8.5
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power)
Kind of test site	:	Shielded room

Test setup

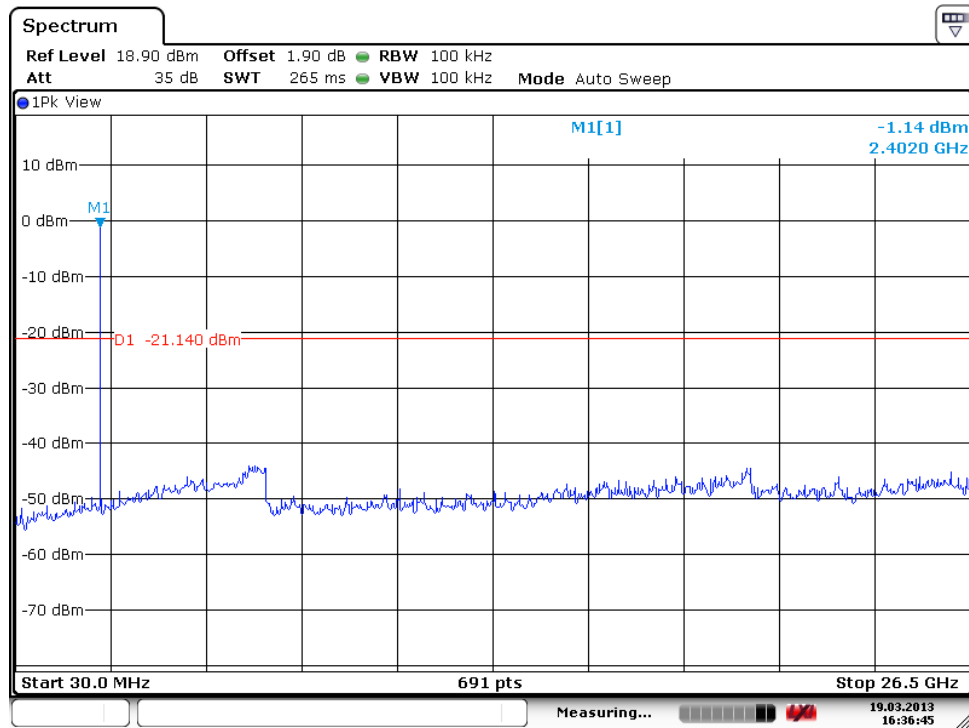
Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	22°C
Relative humidity	:	52%
Atmospheric pressure	:	102 kPa

All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achieved as well.

Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

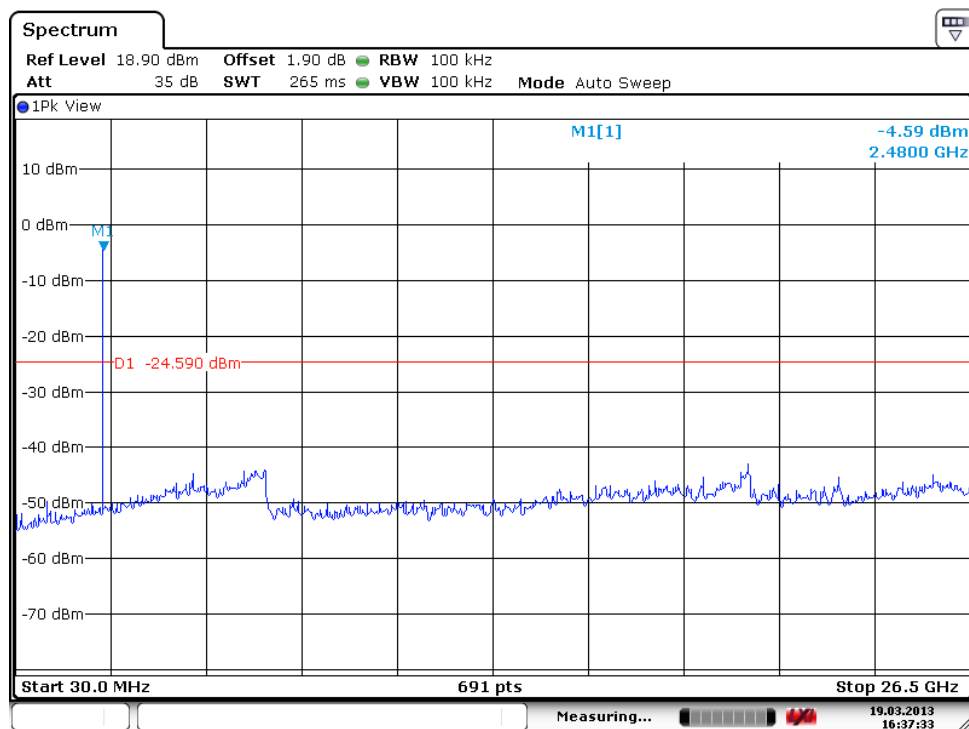
Test Plot of 100kHz Conducted Emissions, GFSK modulation

Low Channel



Date: 19.MAR.2013 16:36:45

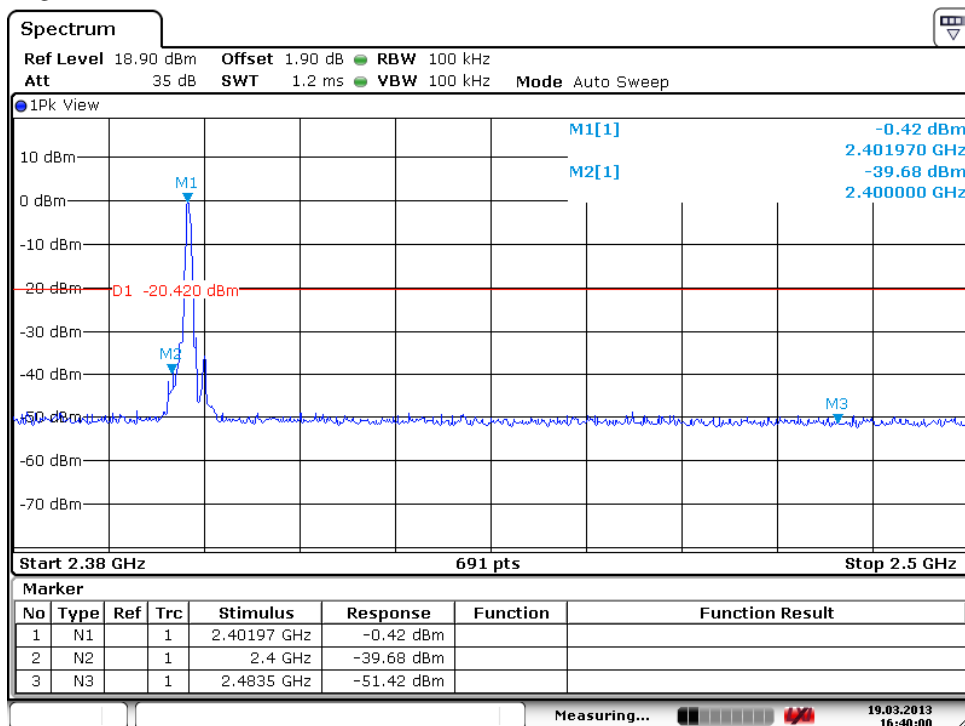
High Channel



Date: 19.MAR.2013 16:37:33

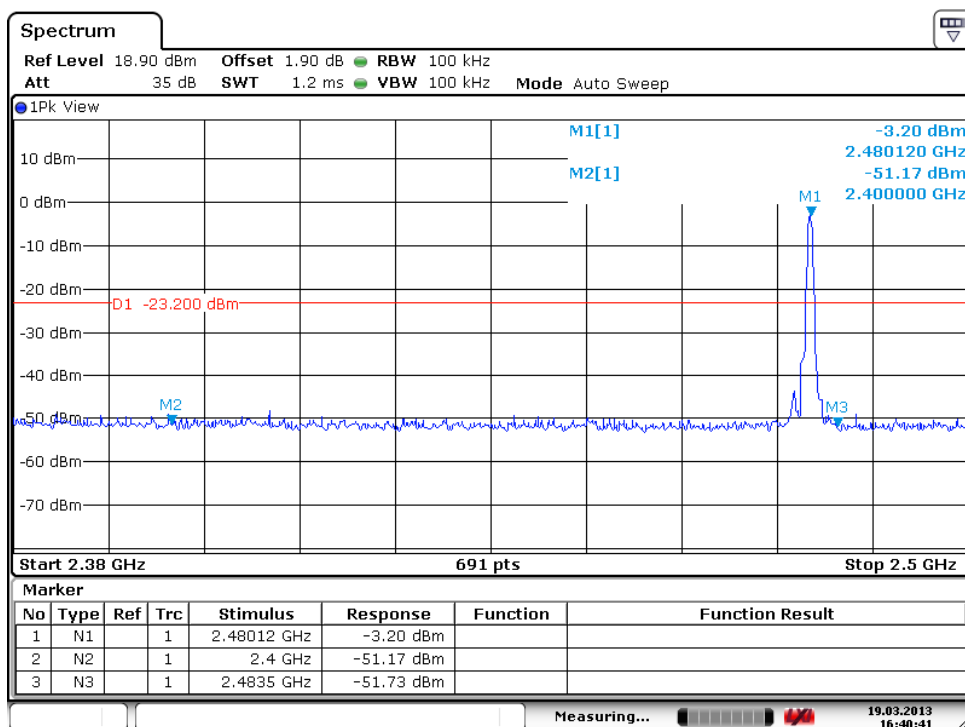
Test Plot of 100kHz Bandwidth of Frequency Band Edge, GFSK modulation

Low Channel



Date: 19.MAR.2013 16:40:00

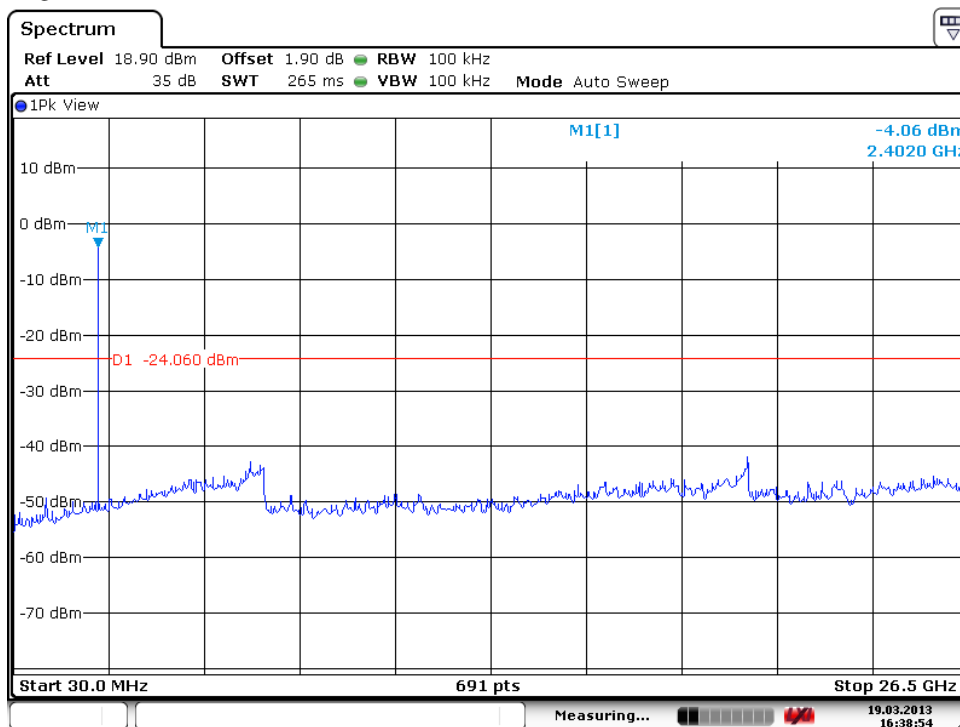
High Channel



Date: 19.MAR.2013 16:40:41

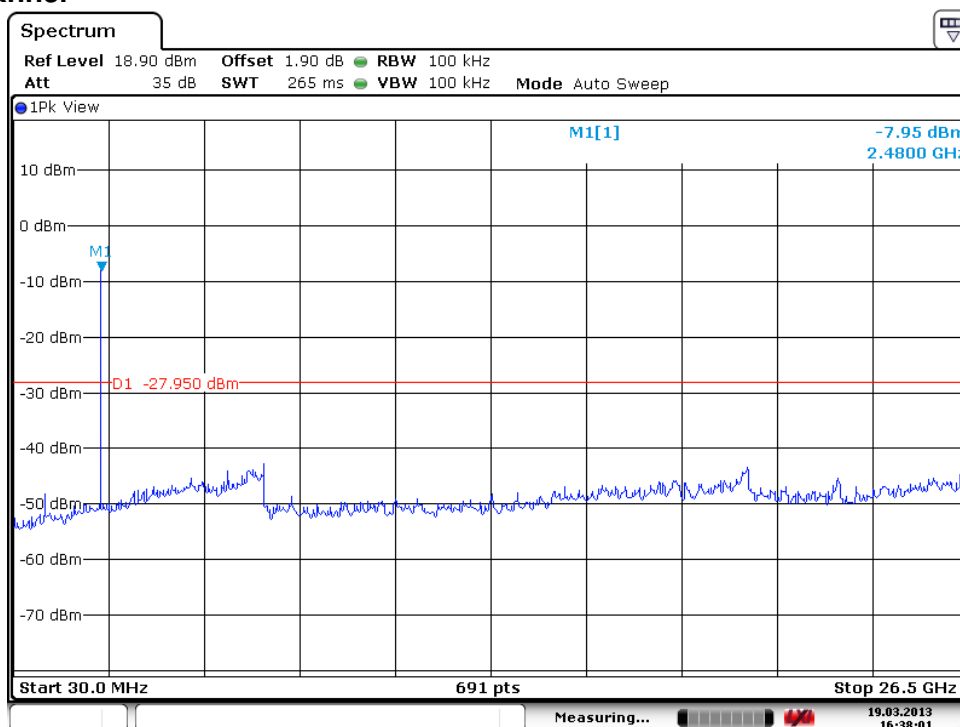
Test Plot of 100kHz Conducted Emissions, 8DPSK modulation

Low Channel



Date: 19.MAR.2013 16:38:54

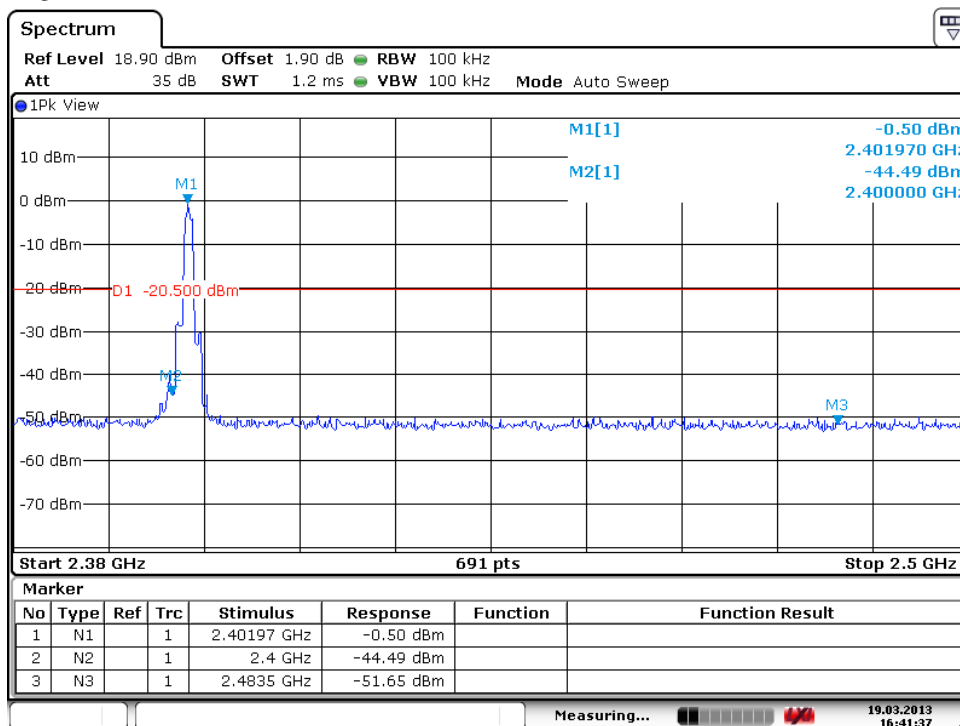
High Channel



Date: 19.MAR.2013 16:38:01

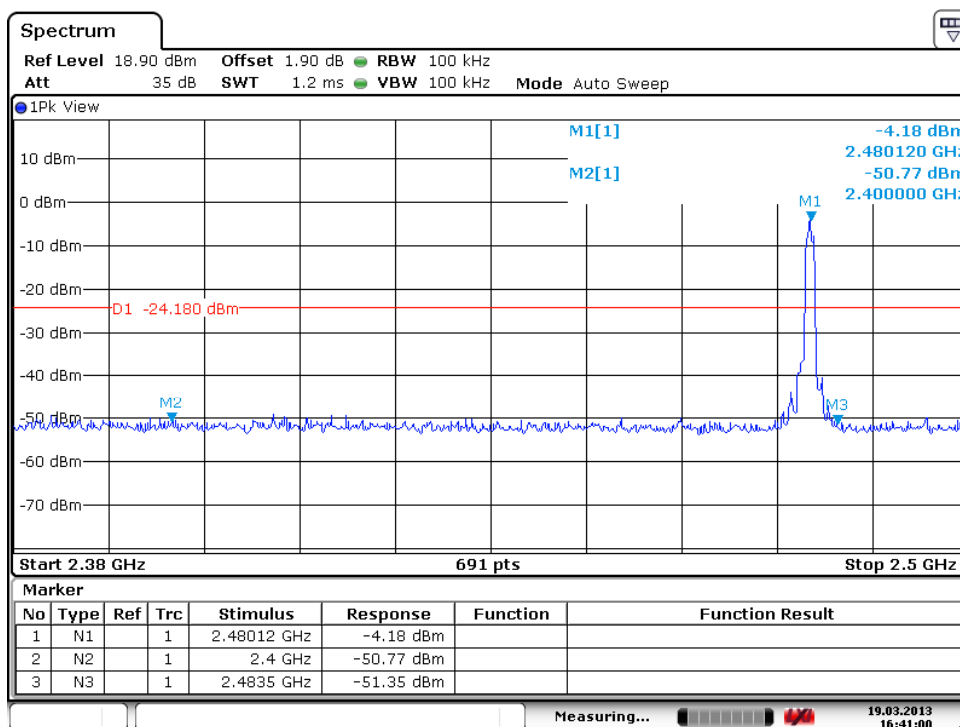
Test Plot of 100kHz Bandwidth of Frequency Band Edge, 8DPSK modulation

Low Channel



Date: 19.MAR.2013 16:41:36

High Channel



Date: 19.MAR.2013 16:41:00

5.1.6 Spurious Emission

RESULT:**Passed**

Date of testing	:	2013-03-19
Test standard	:	FCC part 15.247(d), FCC 15.205, FCC 15.209, RSS-210 2.2, RSS-210 A8.5 and RSS-Gen 7.2.1
Basic standard	:	ANSI C63.10: 2009
Limits	:	Radiated emissions which fall in the restricted bands, as defined in FCC 15.205(a) and RSS-210 2.7 (Table 1), must comply with the radiated emission limits specified in FCC 15.209(a) and RSS-210 2.7 (Table 2 and 3). Emission radiated outside the specified frequency bands must comply with the radiated emission limits specified in FCC 15.209(a) and FCC 15.249(a), RSS-210 2.7 (Table 2 and 3) and RSS-210 A2.9(a).
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A, C
Ambient temperature	:	24°C
Relative humidity	:	56%
Atmospheric pressure	:	102 kPa

Remark: Testing was carried out within frequency range 30MHz to the tenth harmonic. For details refer to Appendix 2. Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

For Test Results, please refer to Appendix 2

5.1.7 Frequency Separation

RESULT:
Passed

Date of testing : 2013-03-19
 Test standard : FCC part 15.247(a)(1), RSS-210 A8.1(b)
 Limit : $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater

Test setup

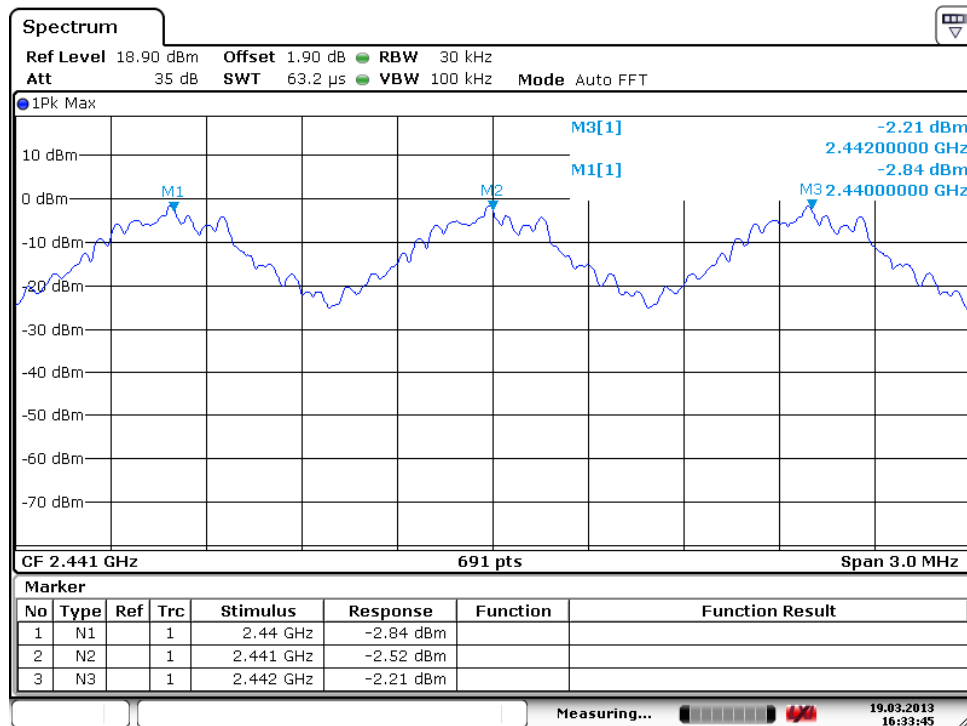
Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 24°C
 Relative humidity : 53%
 Atmospheric pressure : 102 kPa

Table 11: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Record Channel	2441	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Record Channel adj 1	2440			
Record Channel adj 2	2442			

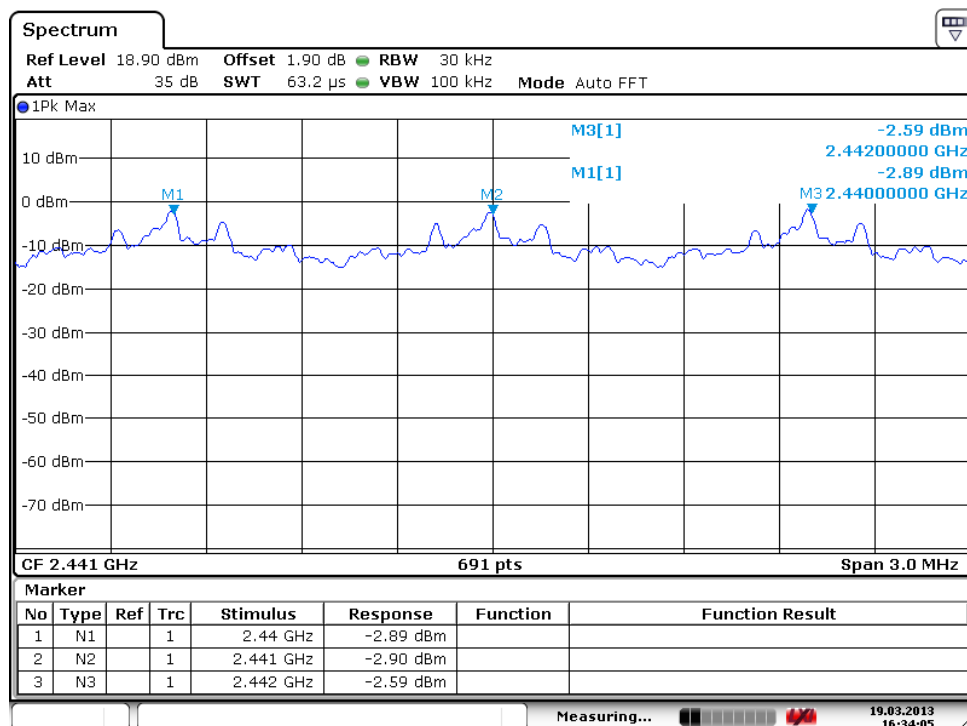
Test Plot of Frequency Separation

GFSK



Date: 19.MAR.2013 16:33:45

8DPSK



Date: 19.MAR.2013 16:34:04

5.1.8 Number of hopping frequency

RESULT:**Passed**

Date of testing : 2013-03-19
Test standard : FCC part 15.247(a)(1)(iii), RSS-210 A8.1(d)
Limits : ≥ 15 non-overlapping channels
Kind of test site : Shield room

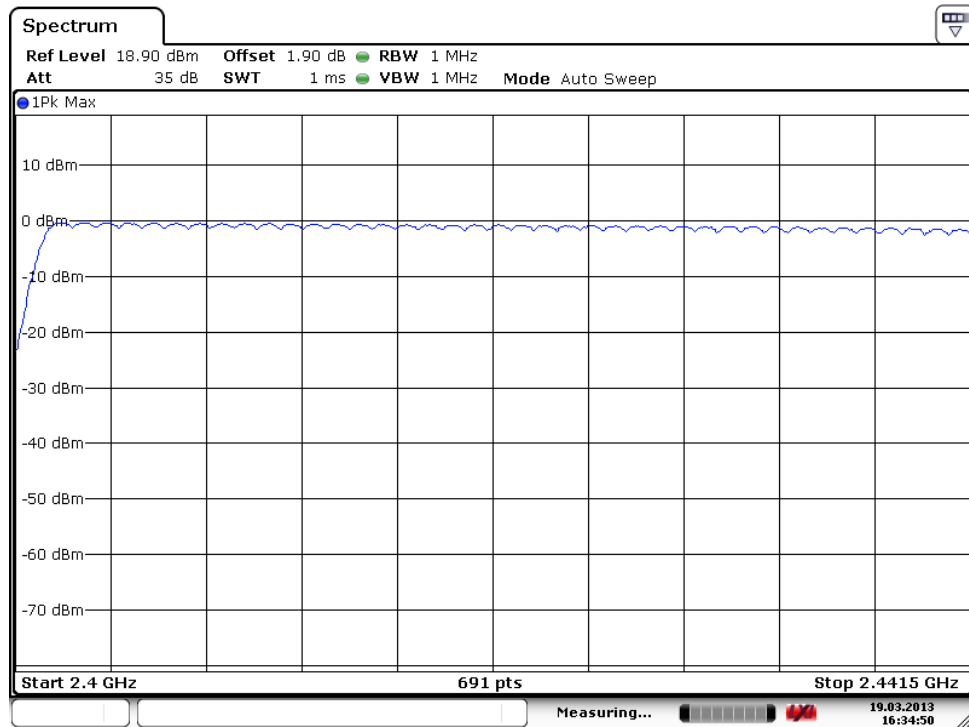
Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 24°C
Relative humidity : 53%
Atmospheric pressure : 102 kPa

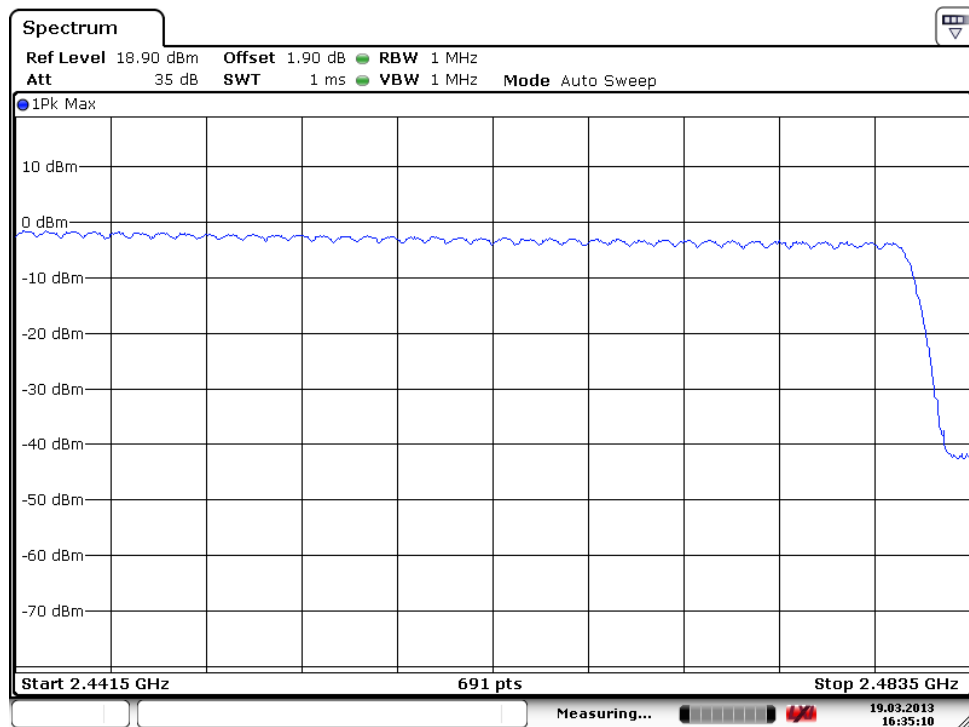
Table 12: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2400 to 2483.5 MHz	79	≥ 15	Pass

Test Plot of Number of hopping frequencies



Date: 19.MAR.2013 16:34:49



Date: 19.MAR.2013 16:35:09

5.1.9 Time of Occupancy

RESULT:
Passed

Date of testing : 2013-03-19
 Test standard : FCC part 15.247(a)(1)(iii) , RSS-210 A8.1(d)
 Basic standard : DA 00-705 of March 30, 2000
 Limits : 0.4s
 Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 24°C
 Relative humidity : 53%
 Atmospheric pressure : 102 kPa

Table 13: Test result of Time of Occupancy

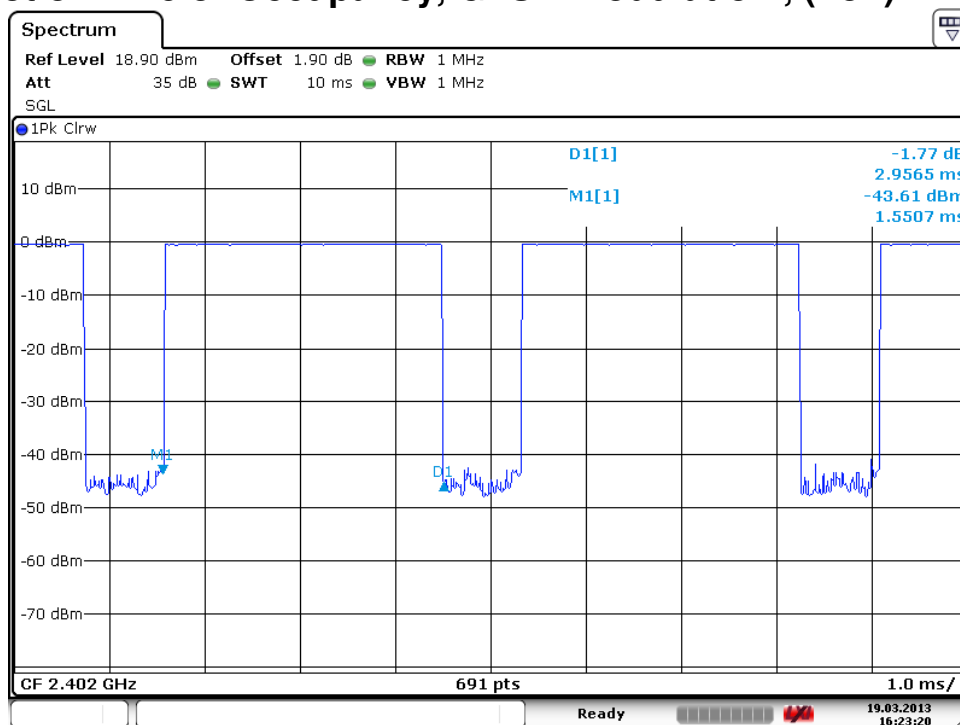
Data Mode	Captured Burst (s)	Dwell time (s)	Limit (s)	Result
DH5	0.00296	0.315	0.4	Pass
3-DH5	0.00297	0.315	0.4	Pass

Note:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

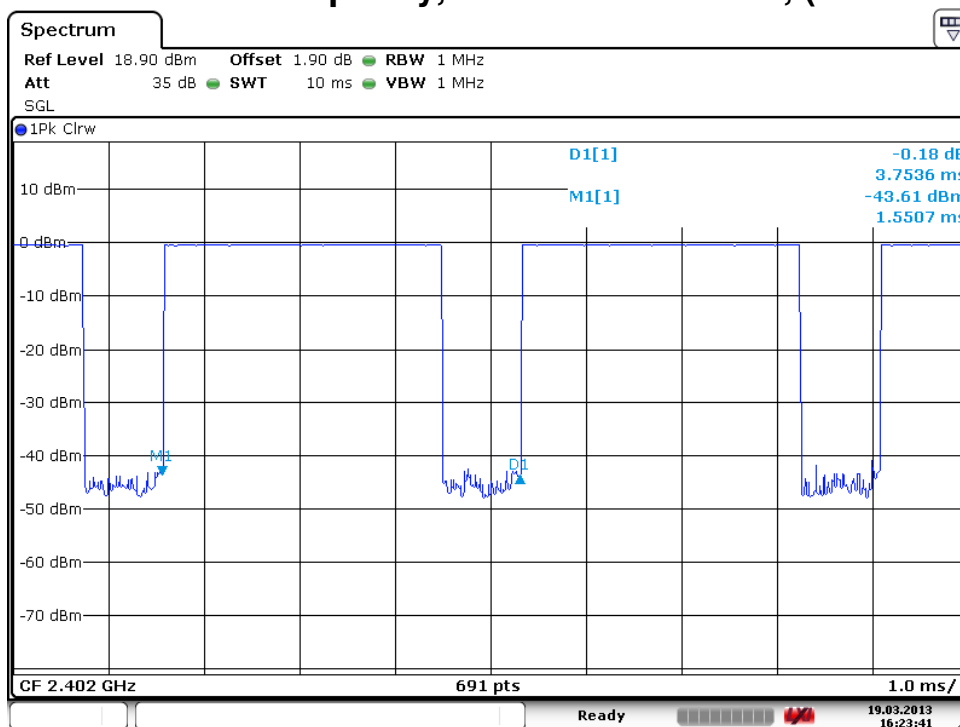
Period = 0.4 (seconds/ channel) x 79 (channel) = 31.6 seconds

Test Plot of Time of Occupancy, GFSK modulation , (Ton)



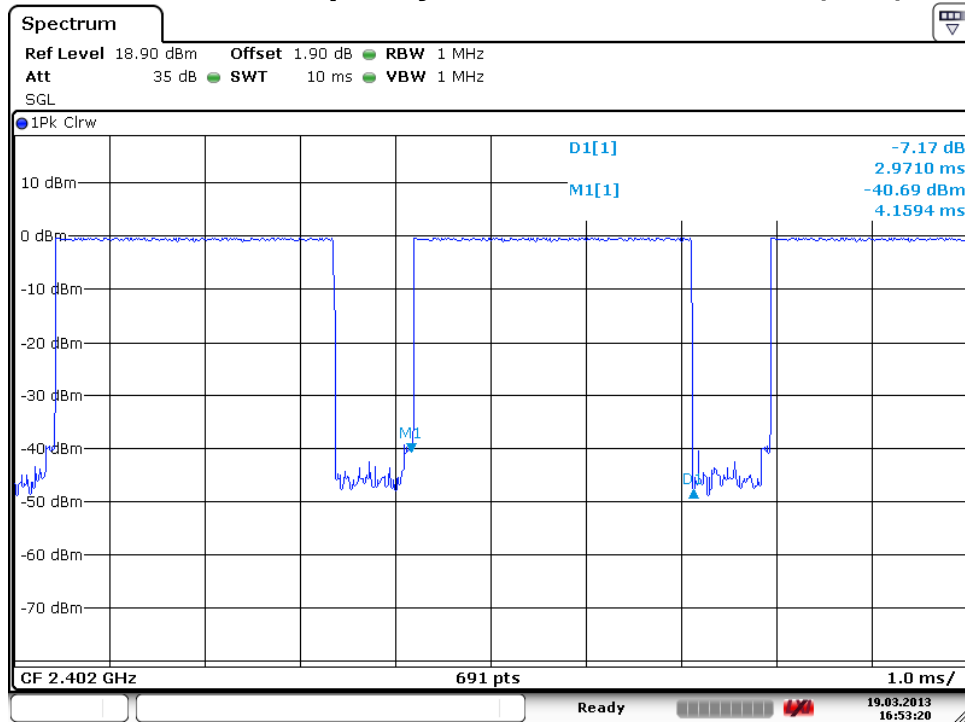
Date: 19.MAR.2013 16:23:19

Test Plot of Time of Occupancy, GFSK modulation , (Ton+Toff)



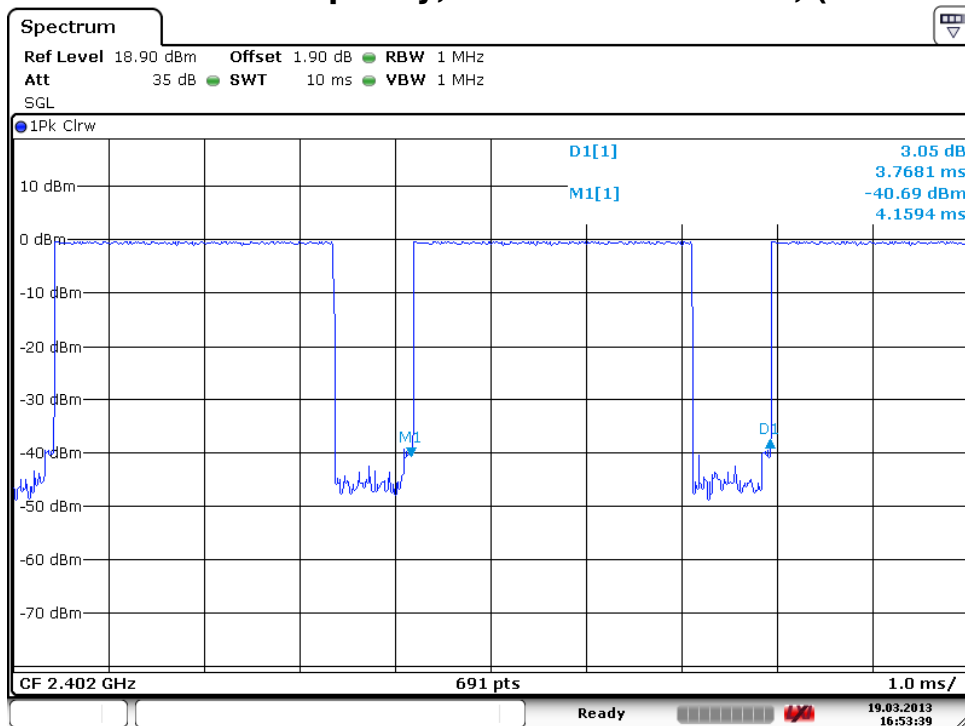
Date: 19.MAR.2013 16:23:40

Test Plot of Time of Occupancy, 8DPSK modulation, (Ton)



Date: 19.MAR.2013 16:53:20

Test Plot of Time of Occupancy, 8DPSK modulation, (Ton+Toff)



Date: 19.MAR.2013 16:53:38

5.2 Mains Emissions

5.2.1 Mains Conducted Emissions

RESULT:**Passed**

Test standard : FCC Part 15.207
FCC Part 15.107
LP0002: 2.3

Limits : Mains Conducted emissions as defined in
above standards

Kind of test site : Shielded Room

Test setup

Test Channel : Middle

Operation mode : A

Remark: For details refer to Appendix 2.

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

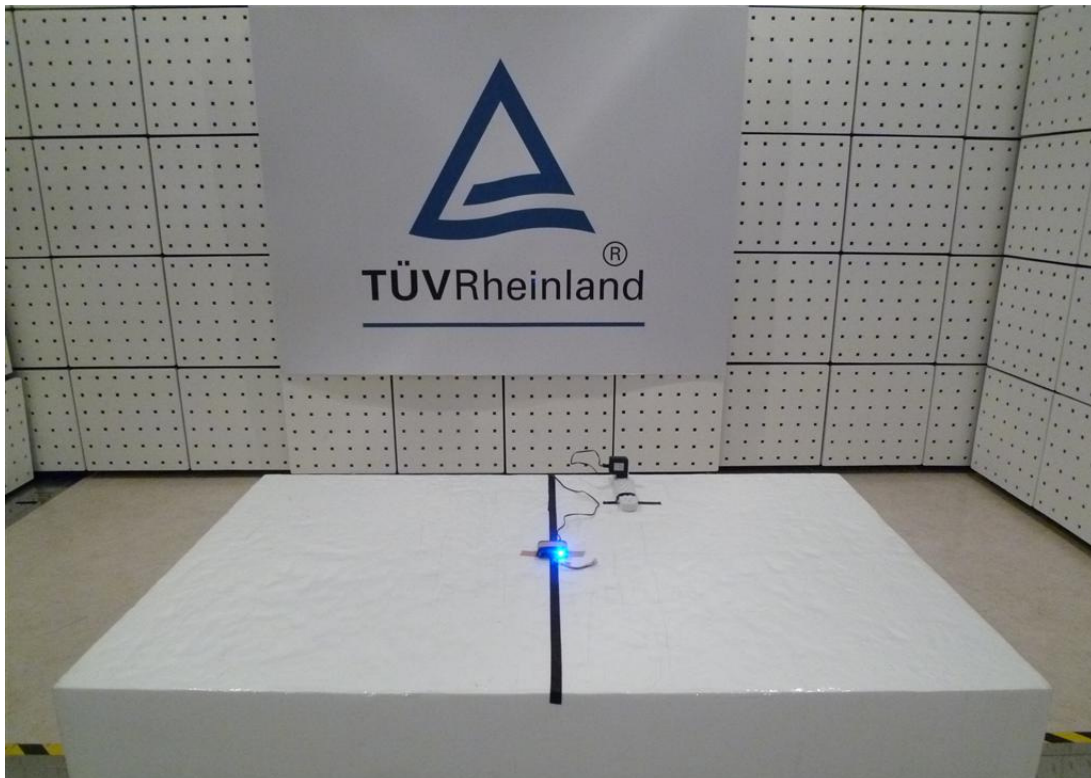
RESULT:**Passed**

Test standard : FCC KDB Publication 447498 General RF
Exposure Guideline v05

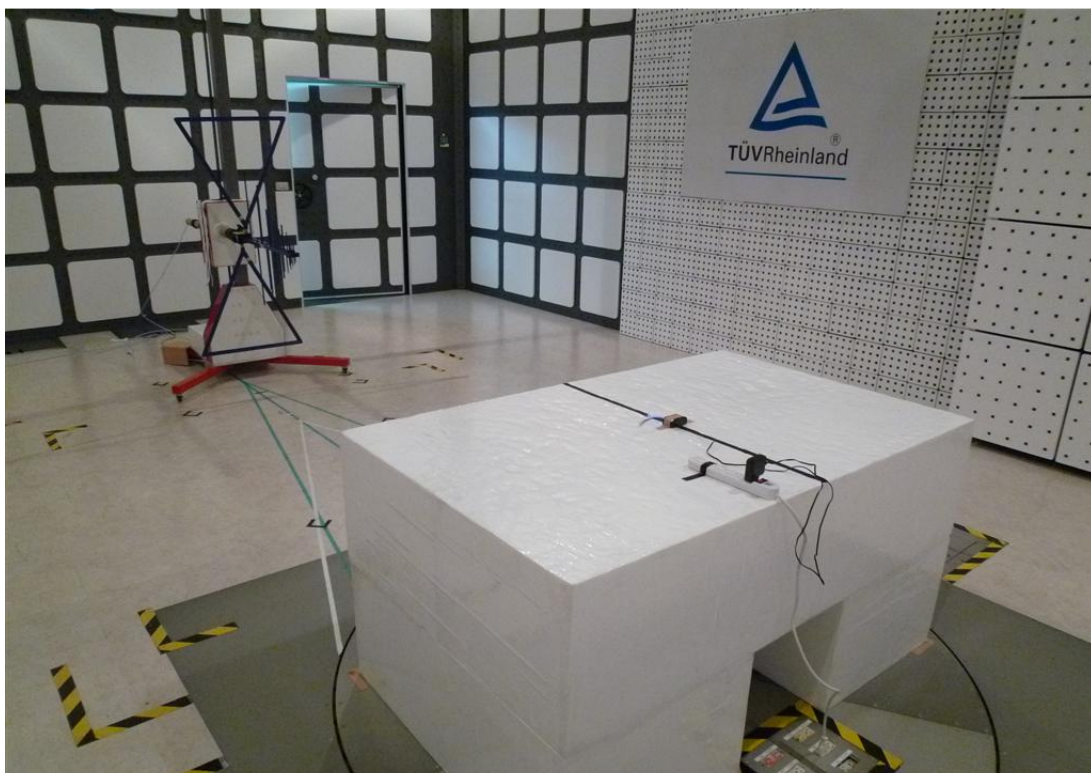
Since maximum peak output power of the transmitter is $<10 \text{ mW}$, i.e. $1 \text{ mW} < 10 \text{ mW}$, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: General RF Exposure Guideline v05.

7. Photographs of the Test Set-Up

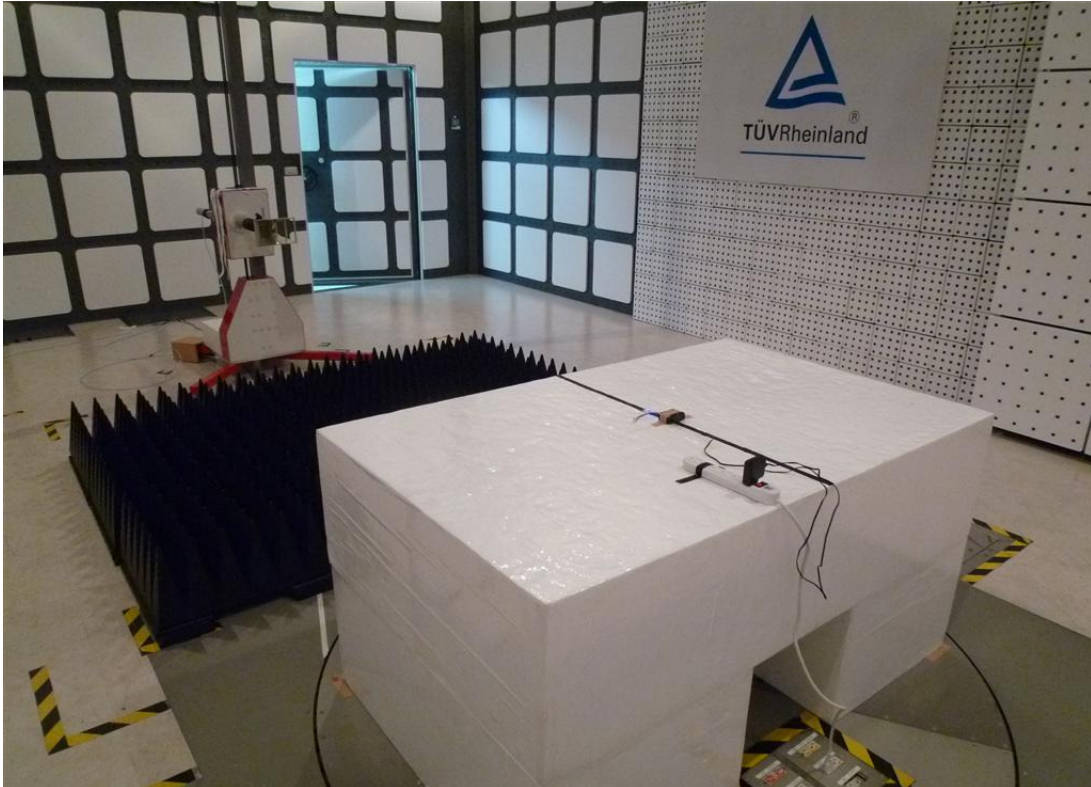
Photograph 1: Set-up for Spurious Emissions (Front View)



Photograph 2: Set-up for Spurious Emissions (Back View 1)



Photograph 3: Set-up for Spurious Emissions (Back View 2)



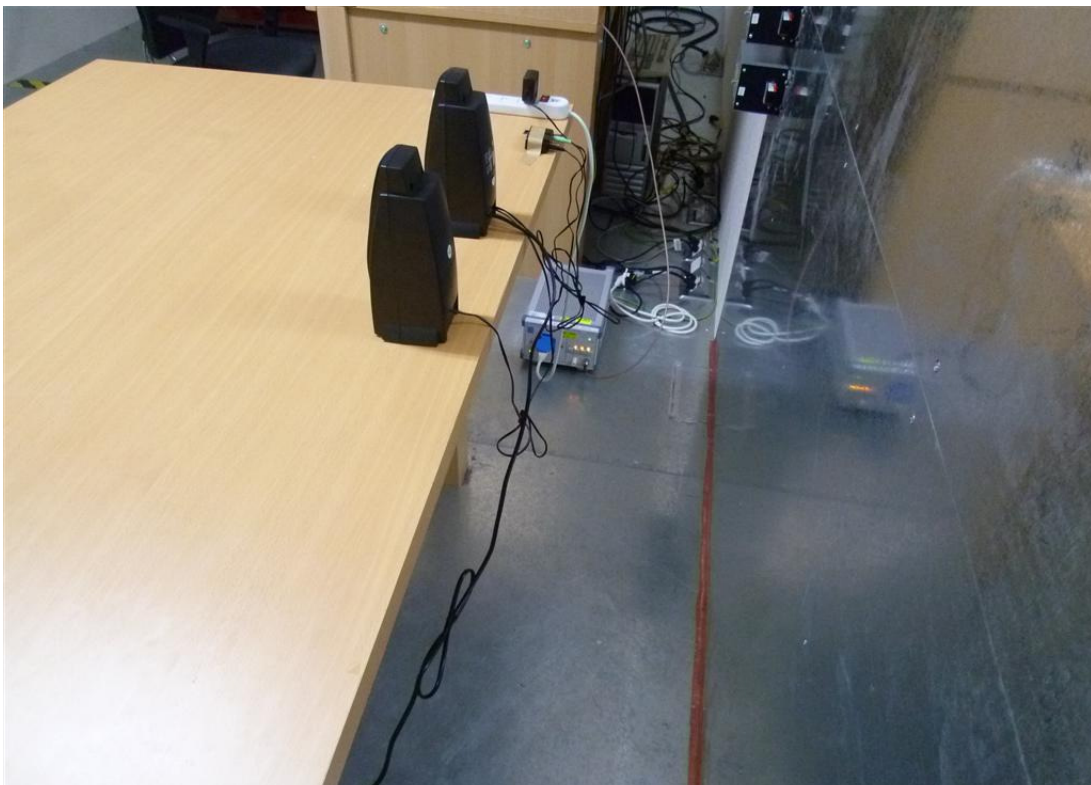
Photograph 4: Set-up for Conducted testing



Photograph 5: Set-up for Mains Conducted testing, front view



Photograph 6: Set-up for Mains Conducted testing, side view



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