



**FCC PART 15C  
TEST REPORT  
No. I15N01185-BT**

**for**

**Huawei Technologies Co.,Ltd.**

**WCDMA Mobile Phone**

**Model Name: HUAWEI Y360-U103**

**With**

**Hardware Version: VER.A**

**Software Version: Y360-U103V100R001C01B108**

**FCC ID: QISY360-U103**

**Issued Date: Nov 27<sup>th</sup>, 2015**

**Test Laboratory:**

***FCC 2.948 Listed: No.342690***

**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 CTTL.

**Test Laboratory:**

CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT

No.52, HuayuanNorth Road, Haidian District, Beijing, P. R. China 100191.

Tel:+86(0)10-62304633, Fax:+86(0)10-62304633Email:ctl@chinattl.com, website:[www.chinattl.com](http://www.chinattl.com)

## **REPORT HISTORY**

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## 1. Test Laboratory

### 1.1. Testing Location

Location1: CTTL(South Branch)

Address: TCL International E city No. 1001 Zhongshanyuan Road, Nanshan District, Shenzhen, Guangdong, China 518000

### 1.2. Testing Environment

Normal Temperature: 15-35°C

Extreme Temperature: -20/+55°C

Relative Humidity: 20-75%

### 1.3. Project data

Testing Start Date: 2015-11-03

Testing End Date: 2015-11-27

### 1.4. Signature

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Xu Ye

(Prepared this test report)

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Tang Weisheng

(Reviewed this test report)

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Zhang Bojun

(Approved this test report)



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: Huawei Technologies Co.,Ltd.  
Address: Administration Building, Headquarters of Huawei Technologies Co.,  
Ltd., Bantian, Longgang District Shenzhen China  
City: Shenzhen  
Postal Code: /  
Country: China  
Telephone: 075536375506  
Fax: /

### **2.2. Manufacturer Information**

Company Name: Huawei Technologies Co.,Ltd.  
Address: Administration Building, Headquarters of Huawei Technologies Co.,  
Ltd., Bantian, Longgang District Shenzhen China  
City: Shenzhen  
Postal Code: /  
Country: China  
Telephone: 075536375506  
Fax: /

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

#### **3.1. About EUT**

Description	WCDMA Mobile Phone
Model Name	HUAWEI Y360-U103
Market Name	Y3 lite
Frequency Band	2402MHz~2480MHz
Type of Modulation	GFSK/ $\pi$ /4 DQPSK/8DPSK
Number of Channels	79
FCC ID	QISY360-U103

\*Note: Photographs of EUT are shown in ANNEX A of this test report.

#### **3.2. Internal Identification of EUT**

<b>EUT ID*</b>	<b>IMEI</b>	<b>HW Version</b>	<b>SW Version</b>
EUT1	/	VER.A	Y360-U103V100R001C01B108

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

#### **3.3. Internal Identification of AE**

<b>AE ID*</b>	<b>Description</b>	<b>Type</b>	<b>SN</b>
AE1	Charger	HW-050055U1W_BYD	/
AE2	Charger	HW-050055U1W_Huntkey	/
AE3	Charger	HW-050055R1W_Shilong Fuhua	/
AE4	Charger	HW-050055A1W_BYD	/
AE5	Charger	HW-050055E1W_BYD	/
AE6	Charger	HW-050055E1W_Huntkey	/
AE7	Charger	HW-050055R1W_BYD	/
AE8	Charger	HW-050055A1W_Shilong Fuhua	/

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



## **4. Reference Documents**

### **4.1. Documents supplied by applicant**

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

### **4.2. Reference Documents for testing**

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

<b>Reference</b>	<b>Title</b>	<b>Version</b>
FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.	Oct, 2014
ANSI C63.10	American National Standard for Testing Wireless Devices	Jun,2013

## 5. Test Results

### 5.1. Summary of Test Results

No	Test cases	Sub-clause of Part15C	Verdict
0	Antenna Requirement	15.203	P
1	Maximum Peak Output Power	15.247 (b)	P
2	Band Edges Compliance	15.247 (d)	P
3	Conducted Spurious Emission	15.247 (d)	P
4	Radiated Spurious Emission	15.247,15.205,15.209	P
5	Occupied 20dB bandwidth	15.247(a)	P
6	Time of Occupancy(Dwell Time)	15.247(a)	P
7	Number of Hopping Channel	15.247(a)	P
8	Carrier Frequency Separation	15.247(a)	P
9	AC Powerline Conducted Emission	15.107,15.207	P

See **ANNEX B** and **ANNEX C** for details.

### 5.2. Statements

CTTL has evaluated the test cases requested by the applicant/manufacturer as listed in section 5.1 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2

### 5.3. Terms used in the result table

Terms used in Verdict column

P	Pass
NA	Not Available
F	Fail

Abbreviations

AC	Alternating Current
AFH	Adaptive Frequency Hopping
BW	Band Width
E.I.R.P.	equivalent isotropical radiated power
ISM	Industrial, Scientific and Medical
R&TTE	Radio and Telecommunications Terminal Equipment
RF	Radio Frequency
Tx	Transmitter

#### 5.4. Laboratory Environment

**Semi-anechoic chamber** (23 metersx17 metersx10 meters) did not exceed following limits:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 M
Ground system resistance	< 4
Normalised site attenuation (NSA)	< ± 4 dB, 3m/10m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio ( $S_{VSWR}$ )	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz

**Shielded room** did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 M
Ground system resistance	< 4

## 6. Test Facilities Utilized

### Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2016-04-21	1 year
2	Bluetooth Tester	CBT32	100584	Rohde & Schwarz	2016-01-10	1 year

### Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Chamber	FACT5-2.0	4166	ETS-Lindgren	2018-05-13	3 years
2	Test Receiver	ESCI	100701	Rohde & Schwarz	2016-08-10	1 year
3	BiLog Antenna	VULB9163	9163 329	Schwarzbeck	2017-01-20	3 years
4	Horn Antenna	3117	00066577	ETS-Lindgren	2016-04-01	3 years
5	Universal Radio Communication Tester	CMU200	114544	Rohde & Schwarz	2016-09-10	1 year
6	Universal Radio Communication Tester	CMW500	152499	Schwarzbeck	2016-07-23	1 year
7	Spectrum Analyser	FSP40	100378	Rohde & Schwarz	2015-12-19	1 year

### Anechoic chamber

Fully anechoic chamber by ETS-Lindgren.

## 7. Measurement Uncertainty

Test Name	Uncertainty	
1.Maximum Peak Output Power	±1.32dB	
2.Band Edges Compliance	±66Hz	
3.Conducted Spurious Emission	$30\text{MHz} \leq f \leq 1\text{GHz}$	±1.41dB
	$1\text{GHz} \leq f \leq 18\text{GHz}$	±1.92dB
	$18\text{GHz} \leq f \leq 26\text{GHz}$	±2.31dB
4.Radiated Spurious Emission	$9\text{k} \leq f \leq 30\text{MHz}$	±4.00dB
	$30\text{M} \leq f \leq 1\text{GHz}$	±5.08dB
	$1\text{GHz} \leq f \leq 18\text{GHz}$	±4.56dB
	$18\text{GHz} \leq f \leq 26\text{GHz}$	±4.56dB
5.Occupied 20dB bandwidth	±66Hz	
6.Time of Occupancy(Dwell Time)	±0.6ms	
7.Number of Hopping Channel	±66Hz	
8.Carrier Frequency Separation	±0.6ms	
9.AC Powerline Conducted Emission	±2.7dB	

## **ANNEX A: MEASUREMENT RESULTS FOR RECEIVER**

### **A.0 Antenna requirement**

#### **Measurement Limit:**

<b>Standard</b>	<b>Requirement</b>
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, § 15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

**Conclusion: The Directional gains of antenna used for transmitting is 3.01 dBi.  
The RF transmitter uses an integrate antenna without connector.**



### A.1 Maximum Peak Output Power

#### Measurement Limit:

Standard	Limit (dBm)
FCC CRF Part 15.247(b)(1)	< 30

#### Measurement Results:

Mode	Test Result (dBm)					
	2402MHz (Ch0)		2441MHz (Ch39)		2480 MHz (Ch78)	
GFSK	Fig.1	6.31	Fig.2	6.86	Fig.3	6.70
$\pi/4$ DQPSK	Fig.4	5.92	Fig.5	6.50	Fig.6	6.47
8DPSK	Fig.7	6.13	Fig.8	6.82	Fig.9	6.72

**Conclusion: Pass**

## A.2 Band Edges Compliance

### Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	> 20

### Measurement Result:

Mode	Channel	Hopping	Test Results	Conclusion
GFSK	0	ON	Fig.10	P
	78	ON	Fig.11	P
$\pi/4$ DQPSK	0	ON	Fig.12	P
	78	ON	Fig.13	P
8DPSK	0	ON	Fig.14	P
	78	ON	Fig.15	P

Mode	Channel	Hopping	Test Results	Conclusion
GFSK	0	OFF	Fig.16	P
	78	OFF	Fig.17	P
$\pi/4$ DQPSK	0	OFF	Fig.18	P
	78	OFF	Fig.19	P
8DPSK	0	OFF	Fig.20	P
	78	OFF	Fig.21	P

See ANNEX C for test graphs.

**Conclusion: Pass**

### A.3 Conducted Emission

#### Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

#### Measurement Results:

MODE	Channel	Frequency Range	Test Results	Conclusion
GFSK	0	2.402 GHz	Fig.22	P
		30 MHz-3GHz	Fig.23	P
		3GHz-18GHz	Fig.24	P
	39	2.441 GHz	Fig.25	P
		30 MHz-3 GHz	Fig.26	P
		3GHz-18GHz	Fig.27	P
	78	2.480 GHz	Fig.28	P
		30 MHz-3GHz	Fig.29	P
		3GHz-18GHz	Fig.30	P
$\pi/4$ DQPSK	0	2.402 GHz	Fig.31	P
		30 MHz-3 GHz	Fig.32	P
		3GHz-18GHz	Fig.33	P
	39	2.441 GHz	Fig.34	P
		30 MHz-3GHz	Fig.35	P
		3GHz-18Ghz	Fig.36	P
	78	2.480 GHz	Fig.37	P
		30 MHz-3GHz	Fig.38	P
		3GHz-18Ghz	Fig.39	P
8DPSK	0	2.402 GHz	Fig.40	P
		30 MHz-3GHz	Fig.41	P
		3GHz-18GHz	Fig.42	P
	39	2.441 GHz	Fig.43	P
		30 MHz-3GHz	Fig.44	P
		3GHz-18GHz	Fig.45	P
	78	2.480 GHz	Fig.46	P
		30 MHz-3GHz	Fig.47	P
		3GHz-18GHz	Fig.48	P
/	All channel	18GHz-26GHz	Fig.49	P

See ANNEX C for test graphs.

Conclusion: Pass

#### A.4 Radiated Emission

##### Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

##### Limit in restricted band:

Frequency of emission (MHz)	Field strength( $\mu$ V/m)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

##### Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz/300kHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

**Note:** According to the performance evaluation, the radiated emission margin of EUT is over 20dB in the band from 9kHz to 30MHz. Therefore, the measurement starts from 30MHz to tenth harmonic.

The measurement results include the horizontal polarization and vertical polarization measurements.

**Measurement Results:**

**GFSK mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
GFSK	0	1 GHz ~ 18 GHz	Fig.50	P
	39	9 kHz ~30 MHz	Fig.51	P
		30 MHz ~1 GHz	Fig.52	P
		1 GHz ~ 18 GHz	Fig.53	P
		18 GHz~ 26.5 GHz	Fig.54	P
	78	1 GHz ~ 18 GHz	Fig.55	P
	Power(CH0)	2.38 GHz ~ 2.45 GHz	Fig.56	P
Power(CH78)	2.45 GHz ~ 2.5 GHz	Fig.57	P	
$\pi/4$ DQPSK	0	1 GHz ~ 18 GHz	Fig.58	P
	39	30 MHz ~1 GHz	Fig.59	P
		1 GHz ~ 18 GHz	Fig.60	P
		18 GHz~ 26.5 GHz	Fig.61	P
	78	1 GHz ~ 18 GHz	Fig.62	P
	Power(CH0)	2.38 GHz ~ 2.45 GHz	Fig.63	P
	Power(CH78)	2.45 GHz ~ 2.5 GHz	Fig.64	P
8DPSK	0	1 GHz ~ 18 GHz	Fig.65	P
	39	30 MHz ~1 GHz	Fig.66	P
		1 GHz ~ 18 GHz	Fig.67	P
		18 GHz~ 26.5 GHz	Fig.68	P
	78	1 GHz ~ 18 GHz	Fig.69	P
	Power(CH0)	2.38 GHz ~ 2.45 GHz	Fig.70	P
	Power(CH78)	2.45 GHz ~ 2.5 GHz	Fig.71	P

**GFSK CH0 (1-18GHz)**

Frequency (MHz)	MaxPeak-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14138.000000	56.1	V	11.2	17.9	74.0
15122.000000	56.6	V	12.1	17.4	74.0
15809.000000	58.3	V	13.0	15.7	74.0
16218.000000	57.9	V	13.3	16.1	74.0
16688.000000	59.7	H	13.9	14.3	74.0
17396.000000	59.1	V	14.3	14.9	74.0

**GFSK CH0 (1-18GHz)**

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14519.000000	43.9	V	11.7	10.1	54.0
15155.000000	44.7	V	12.1	9.3	54.0
15747.000000	46.3	V	12.9	7.7	54.0
16303.000000	46.2	V	13.5	7.8	54.0
16783.000000	46.5	V	14.0	7.5	54.0
17393.000000	46.3	V	14.3	7.7	54.0

**GFSK CH39 (1-18GHz)**

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14539.000000	56.3	V	11.8	17.7	74.0
15009.000000	56.9	V	11.9	17.1	74.0
15825.000000	58.5	V	13.0	15.5	74.0
16297.000000	58.4	H	13.4	15.6	74.0
16662.000000	59.0	V	13.9	15.0	74.0
17330.000000	58.7	H	14.2	15.3	74.0

**GFSK CH39 (1-18GHz)**

Frequency (MHz)	Average-ClearWrite (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14546.000000	44.2	V	11.8	9.8	54.0
15135.000000	44.9	V	12.1	9.1	54.0
15701.000000	46.4	V	12.8	7.6	54.0
16213.000000	46.7	V	13.3	7.3	54.0
16738.000000	47.2	V	13.9	6.8	54.0
17306.000000	46.9	V	14.2	7.1	54.0

**GFSK CH78 (1-18GHz)**

Frequency (MHz)	MaxPeak-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14486.000000	55.5	V	11.7	18.5	74.0
15065.000000	57.0	H	12.0	17.0	74.0
15757.000000	58.2	V	12.9	15.8	74.0
16216.000000	58.6	V	13.3	15.4	74.0
16856.000000	58.5	V	14.0	15.5	74.0
17357.000000	58.2	H	14.2	15.8	74.0

**GFSK CH78 (1-18GHz)**

Frequency (MHz)	Average-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14498.000000	43.7	V	11.7	10.3	54.0
15116.000000	44.5	H	12.1	9.5	54.0
15739.000000	46.1	V	12.9	7.9	54.0
16205.000000	46.1	V	13.3	7.9	54.0
16791.000000	46.4	V	14.0	7.6	54.0
17393.000000	46.4	V	14.3	7.6	54.0

**$\pi/4$  DQPSK CH0 (1-18GHz)**

Frequency (MHz)	MaxPeak-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14544.000000	56.2	V	11.8	17.8	74.0
15129.000000	57.4	V	12.1	16.6	74.0
15759.000000	59.6	V	12.9	14.4	74.0
16216.000000	58.9	V	13.3	15.1	74.0
16840.000000	59.7	H	14.0	14.3	74.0
17359.000000	59.6	V	14.2	14.4	74.0

$\pi/4$  DQPSK CH0 (1-18GHz)

Frequency (MHz)	Average-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14539.000000	44.6	V	11.8	9.4	54.0
15150.000000	45.4	V	12.1	8.6	54.0
15677.000000	47.1	V	12.8	6.9	54.0
16229.000000	47.1	V	13.3	6.9	54.0
16746.000000	47.5	V	14.0	6.5	54.0
17773.000000	47.4	V	14.4	6.6	54.0

$\pi/4$  DQPSK CH39 (1-18GHz)

Frequency (MHz)	MaxPeak-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14159.000000	55.3	H	11.2	18.7	74.0
15121.000000	56.5	V	12.1	17.5	74.0
15742.000000	57.8	H	12.9	16.2	74.0
16235.000000	57.2	V	13.3	16.8	74.0
16759.000000	58.3	V	14.0	15.7	74.0
17399.000000	58.2	V	14.3	15.8	74.0

$\pi/4$  DQPSK CH39 (1-18GHz)

Frequency (MHz)	Average-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14543.000000	43.3	V	11.8	10.7	54.0
15119.000000	44.2	V	12.1	9.8	54.0
15774.000000	45.7	V	12.9	8.3	54.0
16289.000000	45.6	V	13.4	8.4	54.0
16781.000000	46.1	V	14.0	7.9	54.0
17381.000000	45.7	V	14.3	8.3	54.0

**$\pi/4$  DQPSK CH78 (1-18GHz)**

Frequency (MHz)	MaxPeak-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14514.000000	55.8	V	11.7	18.2	74.0
15139.000000	56.8	V	12.1	17.2	74.0
15688.000000	58.6	H	12.8	15.4	74.0
16178.000000	58.9	H	13.3	15.1	74.0
17223.000000	59.3	V	14.0	14.7	74.0
17787.000000	59.1	V	14.4	14.9	74.0

**$\pi/4$  DQPSK CH78 (1-18GHz)**

Frequency (MHz)	Average-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14544.000000	44.1	V	11.8	9.9	54.0
15127.000000	44.8	V	12.1	9.2	54.0
15686.000000	46.3	V	12.8	7.7	54.0
16207.000000	46.6	V	13.3	7.4	54.0
16790.000000	47.2	V	14.0	6.8	54.0
17335.000000	46.9	V	14.2	7.1	54.0

**8DPSK CH0 (1-18GHz)**

Frequency (MHz)	MaxPeak-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14483.000000	55.5	H	11.7	18.5	74.0
15174.000000	56.5	H	12.1	17.5	74.0
15732.000000	58.3	H	12.9	15.7	74.0
16170.000000	57.3	V	13.3	16.7	74.0
16776.000000	58.2	H	14.0	15.8	74.0
17347.000000	57.7	H	14.2	16.3	74.0

**8DPSK CH0 (1-18GHz)**

Frequency (MHz)	Average-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14462.000000	43.2	V	11.6	10.8	54.0
15124.000000	44.3	V	12.1	9.7	54.0
15692.000000	45.8	V	12.8	8.2	54.0
16245.000000	45.5	H	13.3	8.5	54.0
16784.000000	46.0	V	14.0	8.0	54.0
17407.000000	45.7	V	14.3	8.3	54.0

**8DPSK CH39 (1-18GHz)**

Frequency (MHz)	MaxPeak-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14467.000000	55.6	H	11.6	18.4	74.0
15154.000000	56.8	H	12.1	17.2	74.0
15622.000000	57.6	H	12.6	16.4	74.0
16196.000000	58.6	V	13.3	15.4	74.0
17186.000000	58.4	V	14.0	15.6	74.0
17791.000000	58.8	V	14.4	15.2	74.0

**8DPSK CH39 (1-18GHz)**

Frequency (MHz)	Average-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14525.000000	43.8	V	11.7	10.2	54.0
15135.000000	44.7	H	12.1	9.3	54.0
15728.000000	45.9	V	12.9	8.1	54.0
16196.000000	46.1	V	13.3	7.9	54.0
16752.000000	46.5	V	14.0	7.5	54.0
17286.000000	46.4	V	14.1	7.6	54.0

**8DPSK CH78 (1-18GHz)**

Frequency (MHz)	MaxPeak-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14515.000000	55.3	V	11.7	18.7	74.0
15126.000000	56.4	H	12.1	17.6	74.0
15686.000000	58.0	H	12.8	16.0	74.0
16253.000000	58.2	V	13.3	15.8	74.0
16592.000000	59.2	V	13.8	14.8	74.0
17422.000000	58.2	V	14.3	15.8	74.0

**8DPSK CH78 (1-18GHz)**

Frequency (MHz)	Average-ClearWrite (dB $\mu$ V/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
14525.000000	43.5	V	11.7	10.5	54.0
15161.000000	44.4	V	12.1	9.6	54.0
15758.000000	45.9	V	12.9	8.1	54.0
16227.000000	45.9	V	13.3	8.1	54.0
16744.000000	46.3	V	14.0	7.7	54.0
17394.000000	46.2	V	14.3	7.8	54.0

See ANNEX C for test graphs.

Conclusion: Pass

### A.5 Occupied 20dB Bandwidth

**Measurement Limit:**

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a)	/

**Measurement Result:**

Mode	Channel	Occupied 20dB Bandwidth ( MHz)		conclusion
		Fig.	Value	
GFSK	0	Fig.72	1.122	/
	39	Fig.73	1.114	
	78	Fig.74	1.129	
$\pi/4$ DQPSK	0	Fig.75	1.360	/
	39	Fig.76	1.353	
	78	Fig.77	1.353	
8DPSK	0	Fig.78	1.360	/
	39	Fig.79	1.360	
	78	Fig.80	1.360	

See ANNEX C for test graphs.

**Conclusion: PASS**

### A.6 Time of Occupancy (Dwell Time)

**Measurement Limit:**

Standard	Limit
FCC 47 CFR Part 15.247(a)	< 400 ms

**Measurement Results:**

Mode	Channel	Packet	Dwell Time(ms)		Conclusion
GFSK	39	DH5	Fig.81	168.9	<b>P</b>
			Fig.82		
$\pi/4$ DQPSK	39	2-DH5	Fig.83	145.6	<b>P</b>
			Fig.84		
8DPSK	39	3-DH5	Fig.85	159.4	<b>P</b>
			Fig.86		

See ANNEX C for test graphs.

**Conclusion: Pass**

## A.7 Number of Hopping Channels

### Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a)	At least 15 non-overlapping channels

### Measurement Results:

Mode	Channel	Packet	Number of hopping channels		Test result	Conclusion
GFSK	39	DH5	Fig.87	Fig.88	79	<b>P</b>
$\pi/4$ DQPSK	39	2-DH5	Fig.89	Fig.90	79	<b>P</b>
8DPSK	39	3-DH5	Fig.91	Fig.92	79	<b>P</b>

See ANNEX C for test graphs.

**Conclusion: Pass**

## A.8 Carrier Frequency Separation

### Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a)	By a minimum of 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater

### Measurement Results:

Mode	Channel	Packet	Separation of hopping channels	Test result (MHz)	Conclusion
GFSK	39	DH5	Fig.93	1.006	P
$\pi/4$ DQPSK	39	2-DH5	Fig.94	1.006	P
8DPSK	39	3-DH5	Fig.95	1.006	P

See ANNEX C for test graphs.

**Conclusion: Pass**

### A.9 AC Power line Conducted Emission

**Test Condition:**

Voltage (V)	Frequency (Hz)
120	60

**Measurement Result and limit:**

BT (Quasi-peak Limit)-AE1

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Traffic	
0.15 to 0.5	66 to 56	Fig.96	P
0.5 to 5	56		
5 to 30	60		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

BT (Average Limit)-AE1

Frequency range (MHz)	Average-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.96	P
0.5 to 5	46		
5 to 30	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

BT (Quasi-peak Limit)-AE2

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Traffic	
0.15 to 0.5	66 to 56	Fig.97	P
0.5 to 5	56		
5 to 30	60		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

BT (Average Limit)-AE2

Frequency range (MHz)	Average-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.97	P
0.5 to 5	46		
5 to 30	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

BT (Quasi-peak Limit)-AE3

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Traffic	
0.15 to 0.5	66 to 56	Fig.98	P
0.5 to 5	56		
5 to 30	60		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.			

BT (Average Limit)-AE2

Frequency range (MHz)	Average-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.98	P
0.5 to 5	46		
5 to 30	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.			

BT (Quasi-peak Limit)-AE1

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Idle	
0.15 to 0.5	66 to 56	Fig.99	P
0.5 to 5	56		
5 to 30	60		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.			

BT (Average Limit)-AE1

Frequency range (MHz)	Average-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Idle	
0.15 to 0.5	56 to 46	Fig.99	P
0.5 to 5	46		
5 to 30	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.			

BT (Quasi-peak Limit)-AE2

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Idle	
0.15 to 0.5	66 to 56	Fig.100	P
0.5 to 5	56		
5 to 30	60		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.			

BT (Average Limit)-AE2

Frequency range (MHz)	Average-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Idle	
0.15 to 0.5	56 to 46	Fig.100	P
0.5 to 5	46		
5 to 30	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

BT (Quasi-peak Limit)-AE3

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Idle	
0.15 to 0.5	66 to 56	Fig.101	P
0.5 to 5	56		
5 to 30	60		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

BT (Average Limit)-AE3

Frequency range (MHz)	Average-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Idle	
0.15 to 0.5	56 to 46	Fig.101	P
0.5 to 5	46		
5 to 30	50		

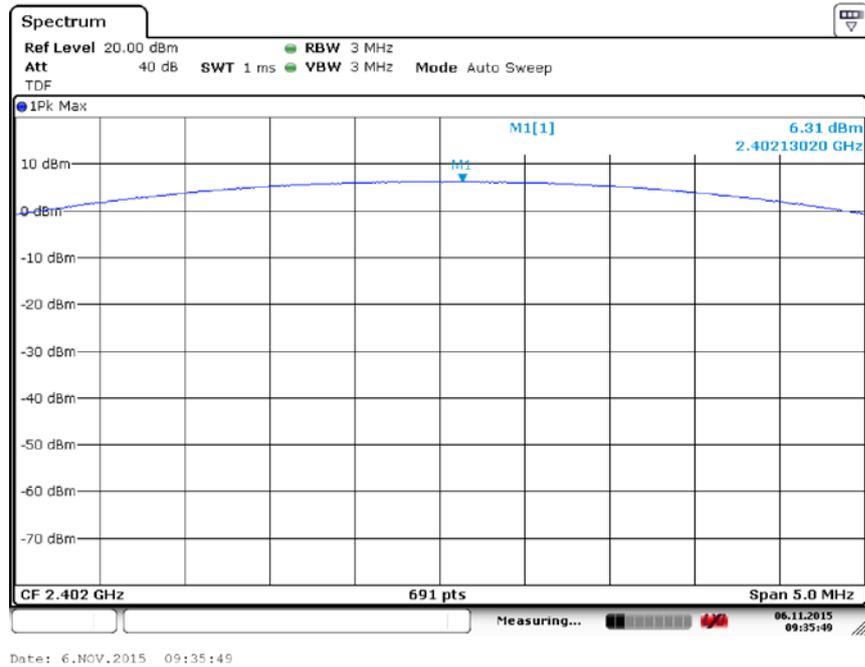
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**Note:** The measurement results include the L1 and N measurements.

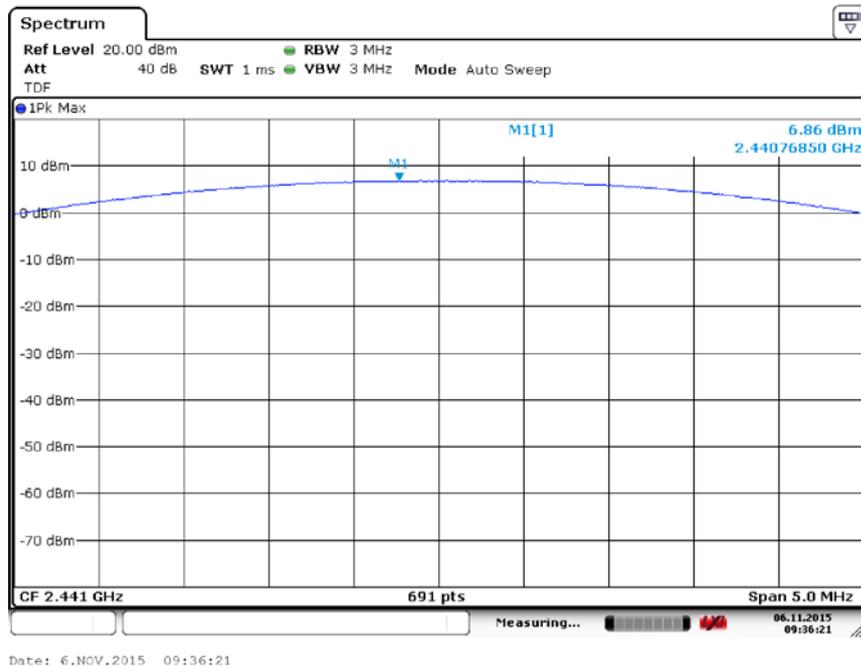
**See ANNEX C for test graphs.**

**Conclusion: Pass**

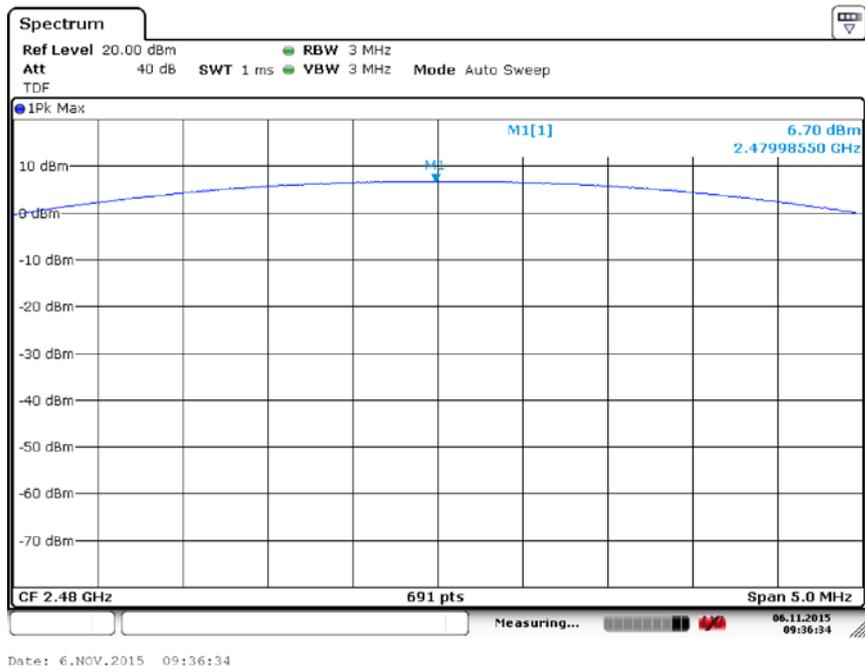
## ANNEX B: TEST FIGURE LIST



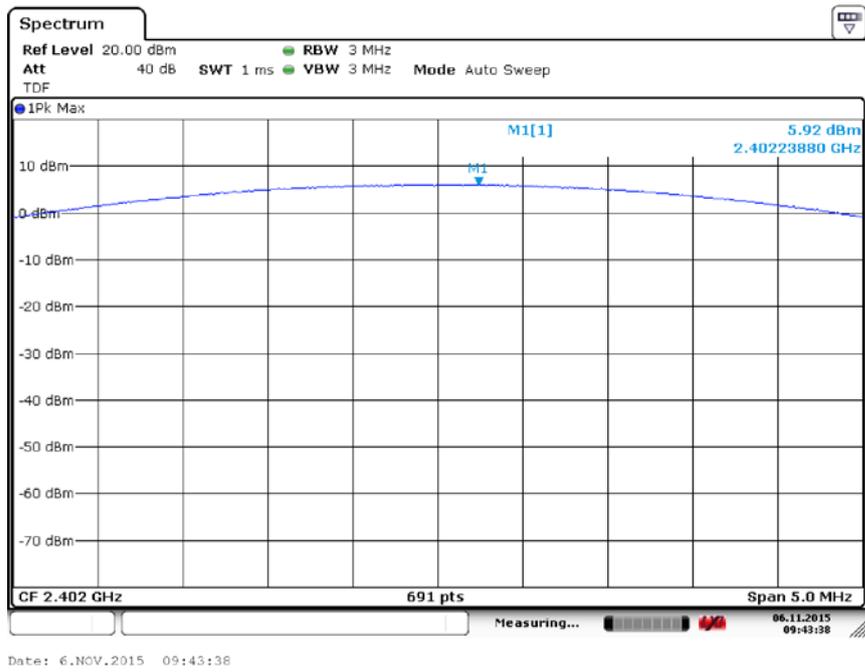
**Fig. 1 Maximum Peak Output Power(GFSK, Ch 0)**



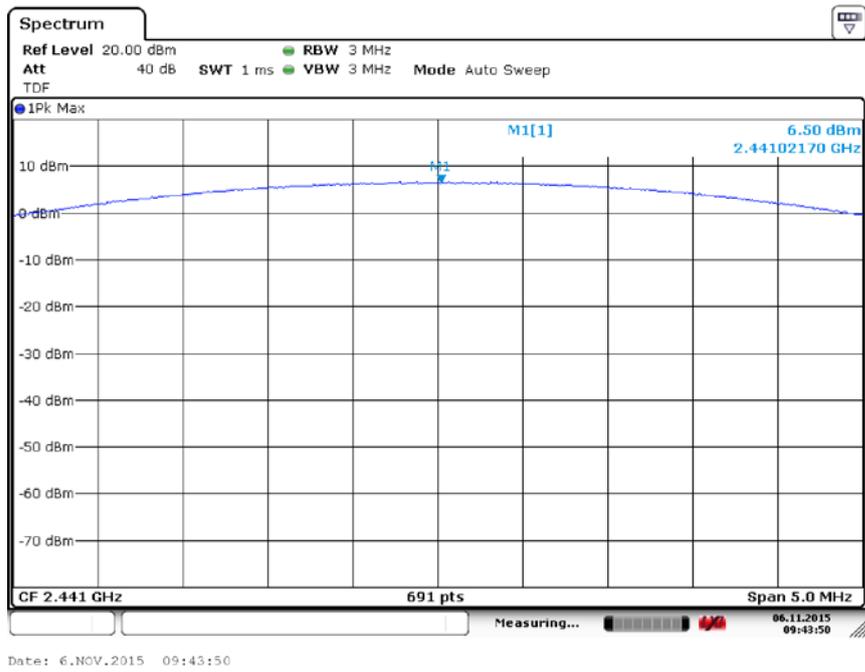
**Fig. 2 Maximum Peak Output Power(GFSK, Ch 39)**



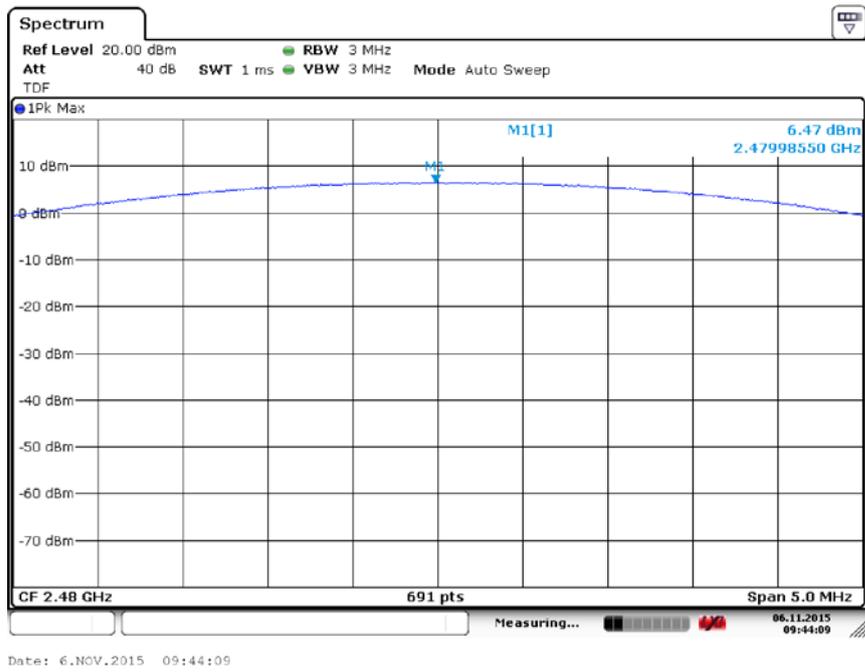
**Fig. 3 Maximum Peak Output Power(GFSK, Ch 78)**



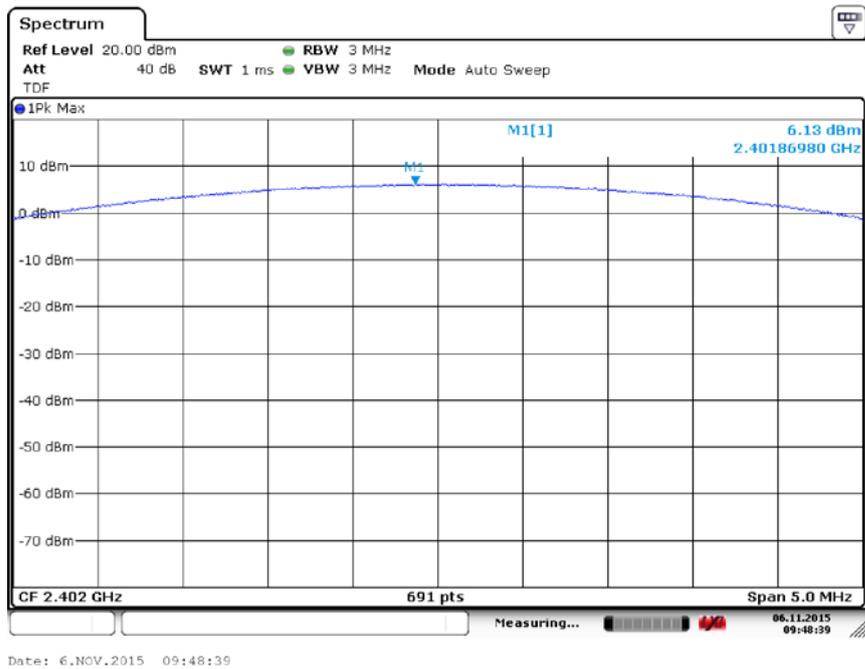
**Fig. 4 Maximum Peak Output Power( $\pi/4$  DQPSK, Ch 0)**



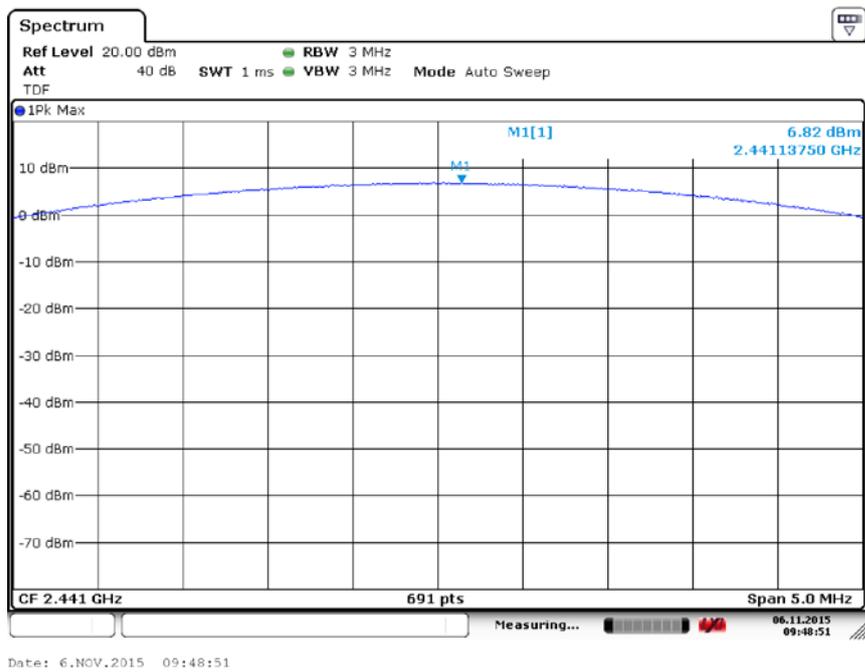
**Fig. 5 Maximum Peak Output Power( $\pi/4$  DQPSK, Ch 39)**



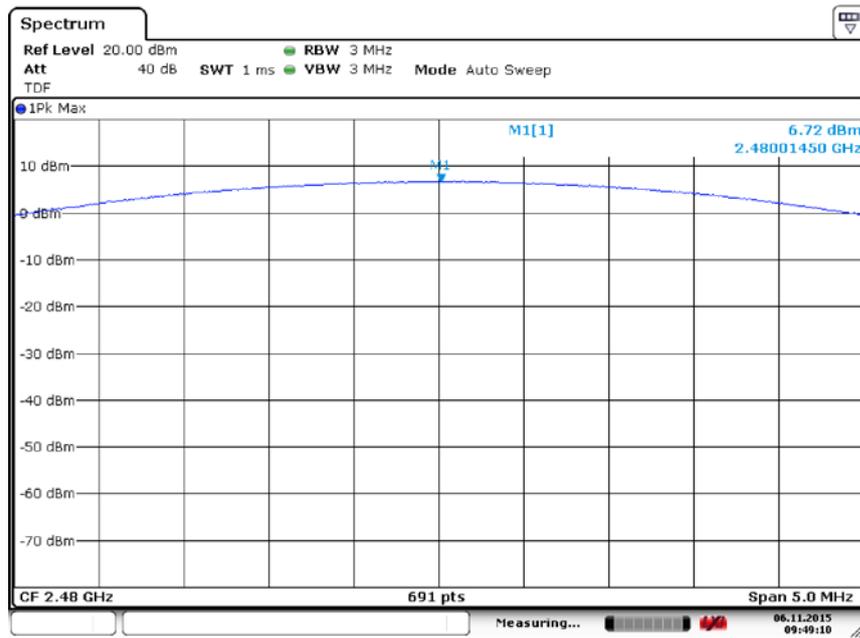
**Fig. 6 Maximum Peak Output Power( $\pi/4$  DQPSK, Ch 78)**



**Fig. 7 Maximum Peak Output Power(8DPSK, Ch 0)**

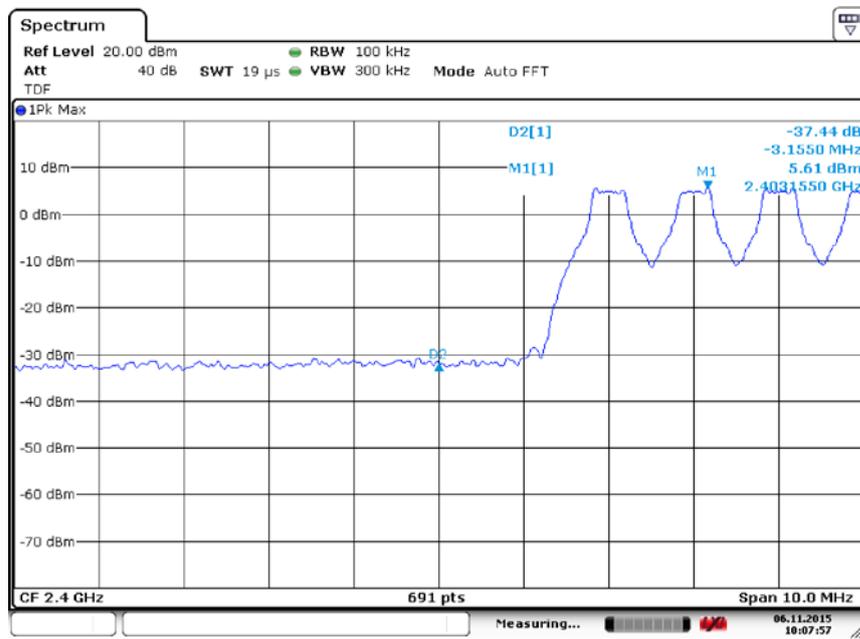


**Fig. 8 Maximum Peak Output Power(8DPSK, Ch 39)**



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**Fig. 9 Maximum Peak Output Power(8DPSK, Ch 78)**



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**Fig. 10 Band Edges (GFSK, Ch 0, Hopping ON)**

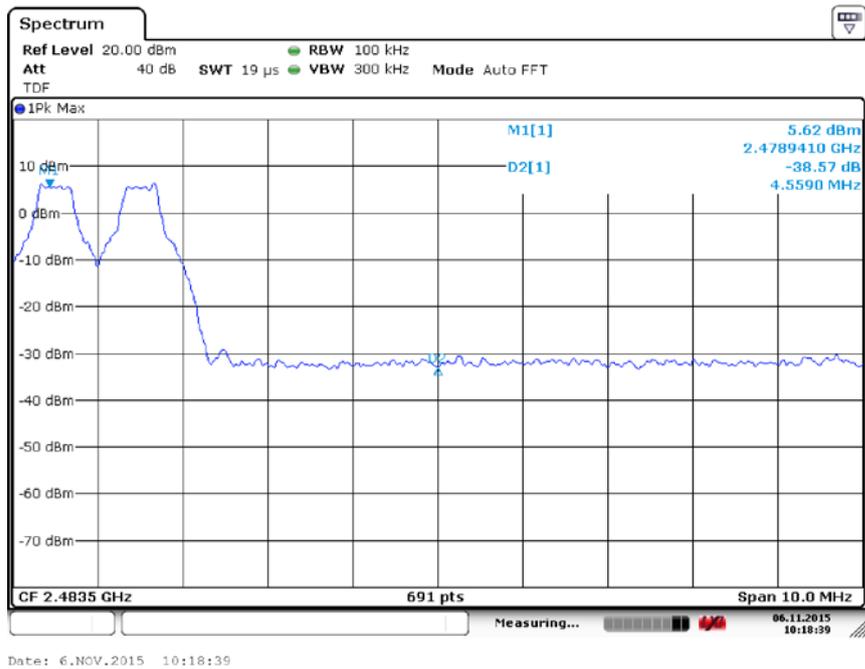


Fig. 11 Band Edges (GFSK, Ch 78, Hopping ON)

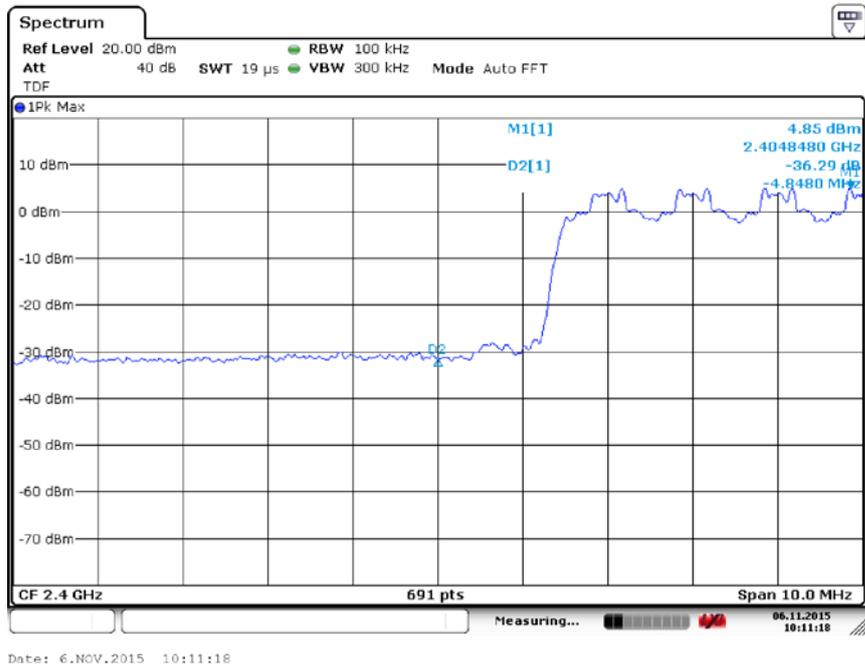
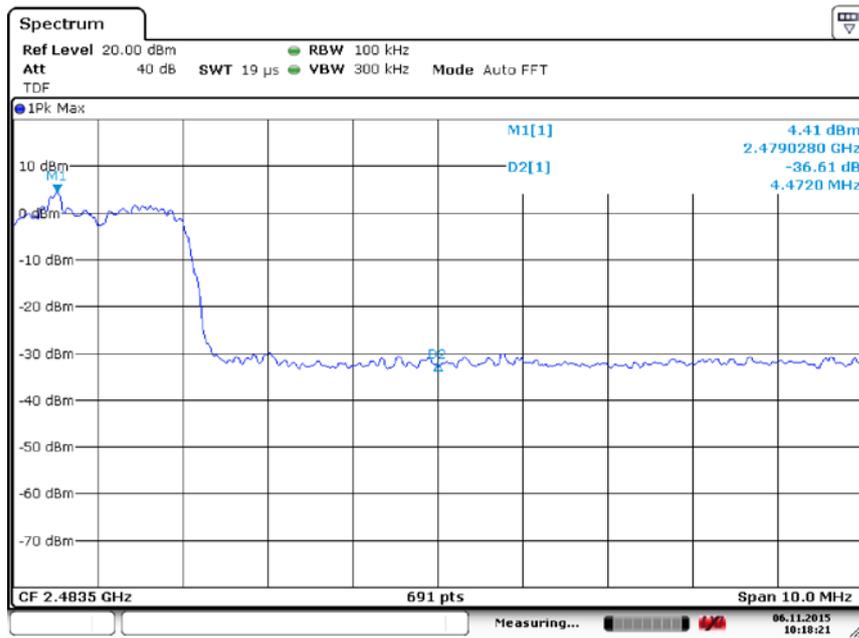
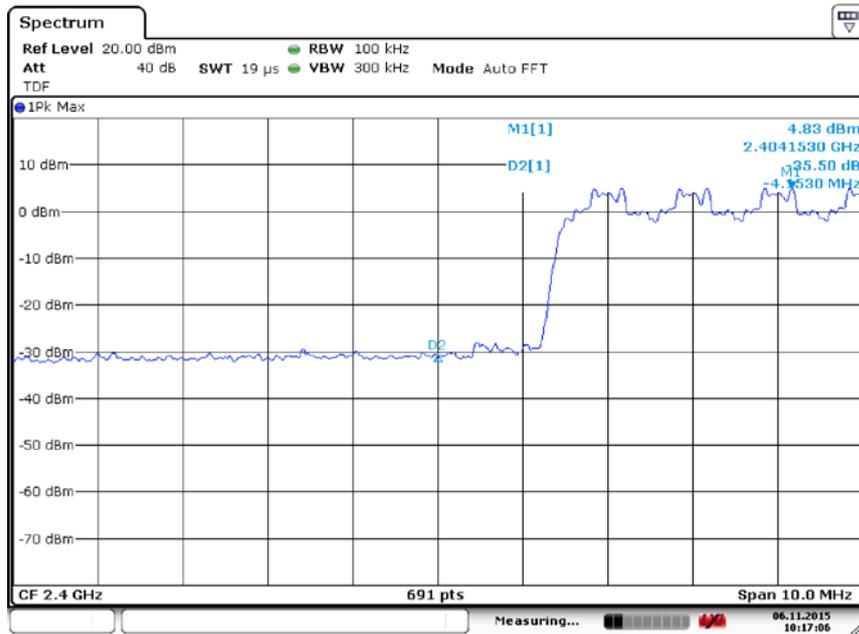


Fig. 12 Band Edges ( $\pi/4$  DQPSK, Ch 0, Hopping ON)



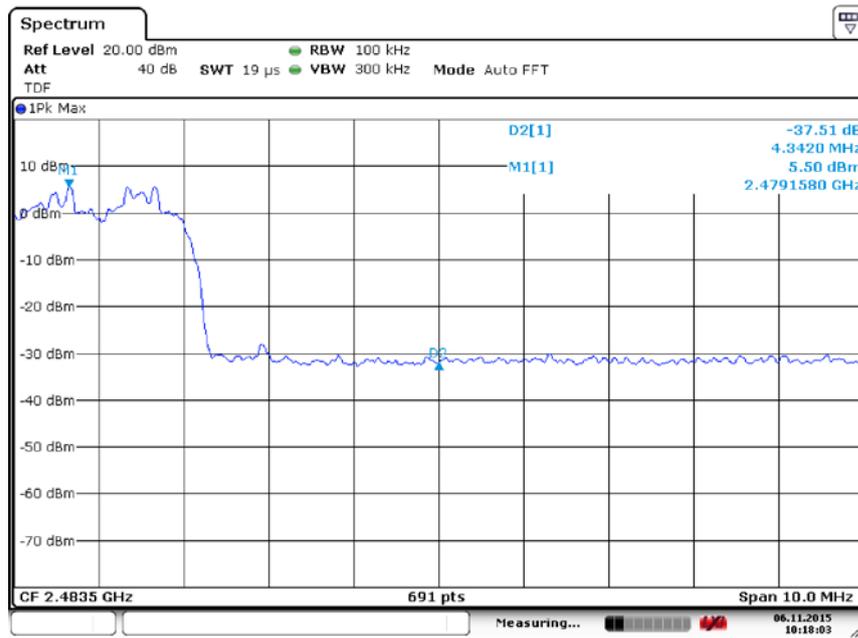
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**Fig. 13 Band Edges ( $\pi/4$  DQPSK, Ch 78, Hopping ON)**

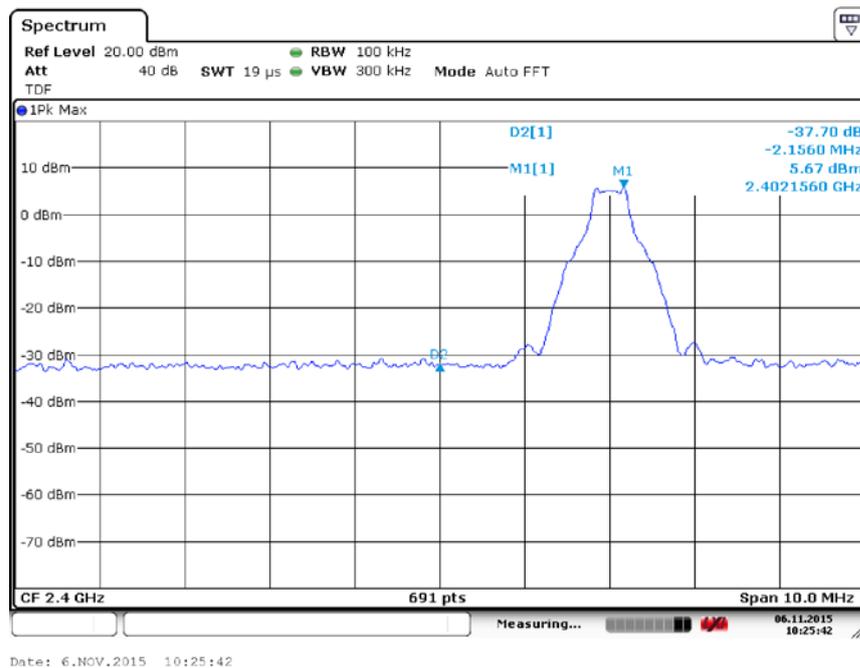


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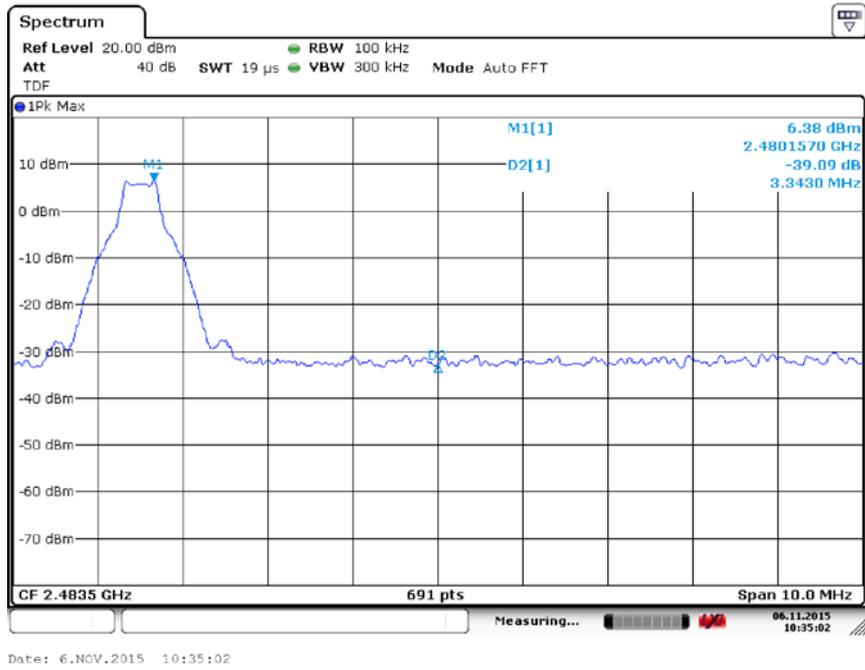
**Fig. 14 Band Edges (8DPSK, Ch 0, Hopping ON)**



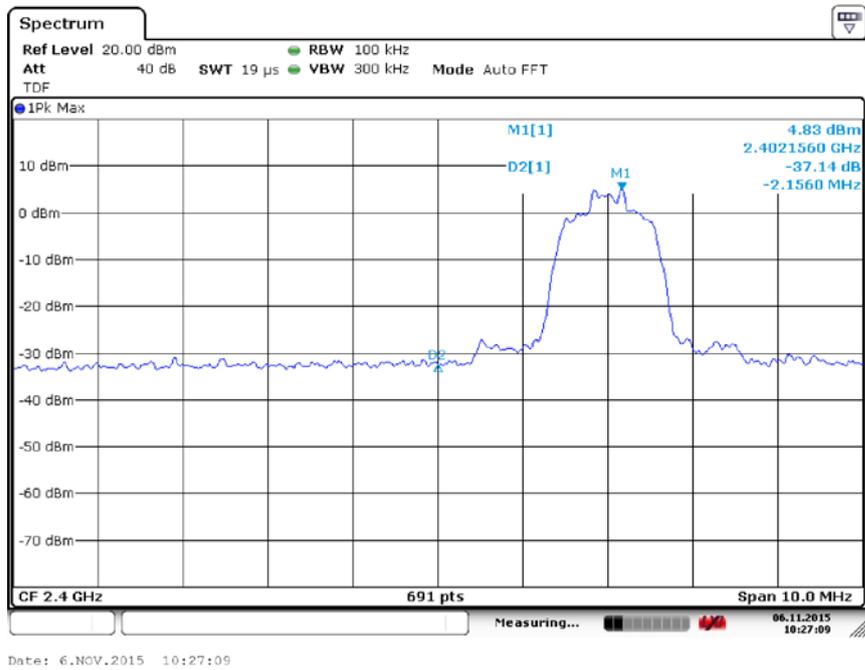
**Fig. 15 Band Edges (8DPSK, Ch 78, Hopping ON)**



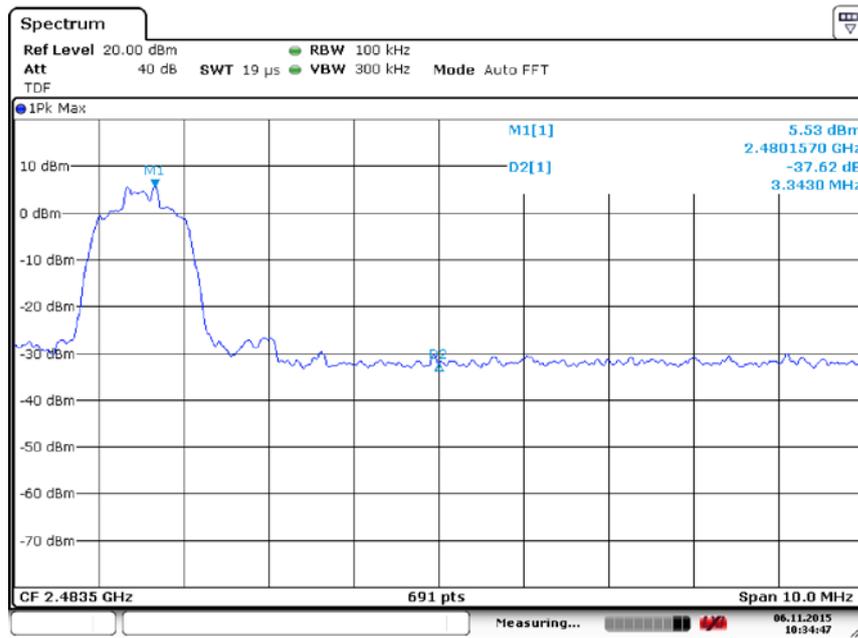
**Fig. 16 Band Edges (GFSK, Ch 0, Hopping OFF)**



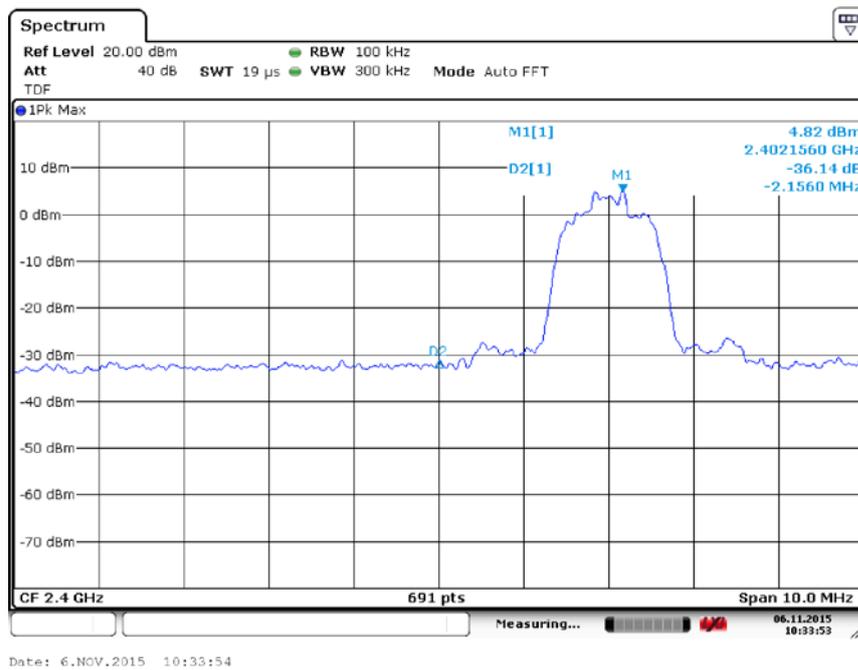
**Fig. 17 Band Edges (GFSK, Ch 78, Hopping OFF)**



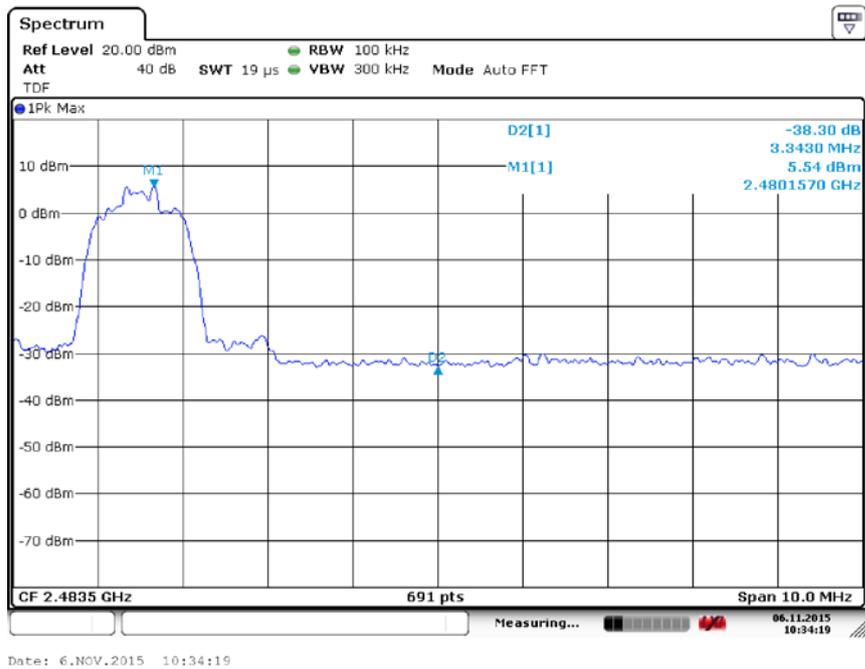
**Fig. 18 Band Edges ( $\pi/4$  DQPSK, Ch 0, Hopping OFF)**



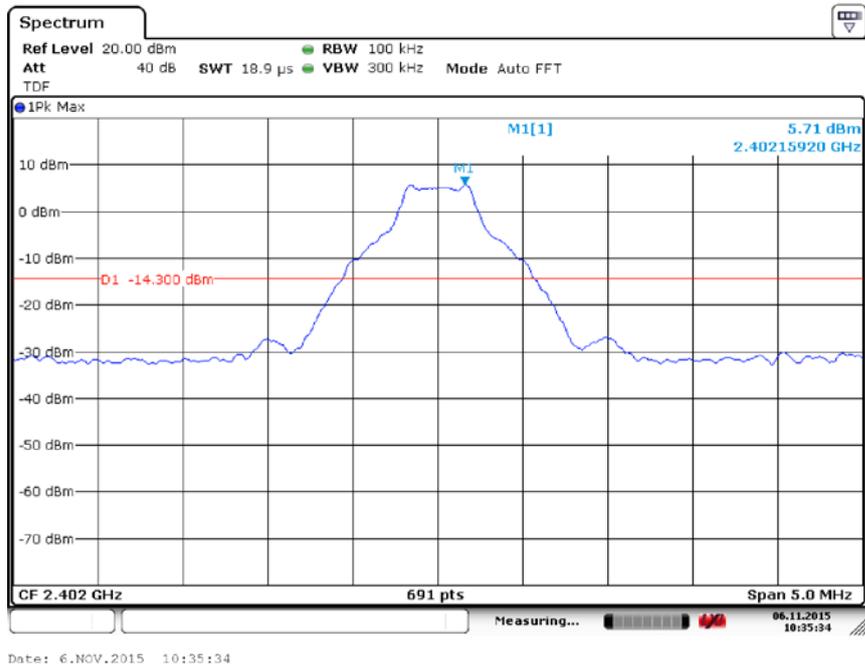
**Fig. 19 Band Edges ( $\pi/4$  DQPSK, Ch 78, Hopping OFF)**



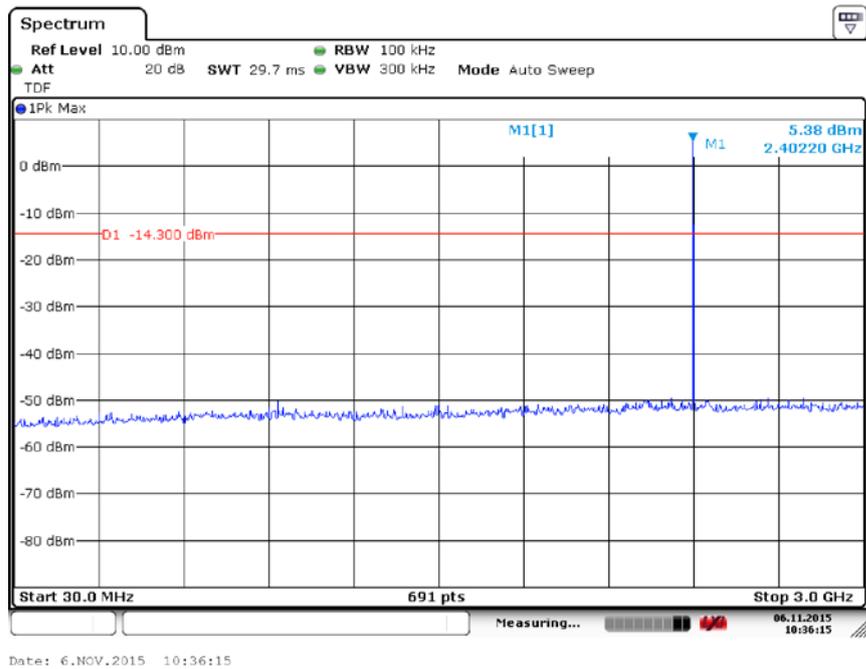
**Fig. 20 Band Edges (8DPSK, Ch 0, Hopping OFF)**



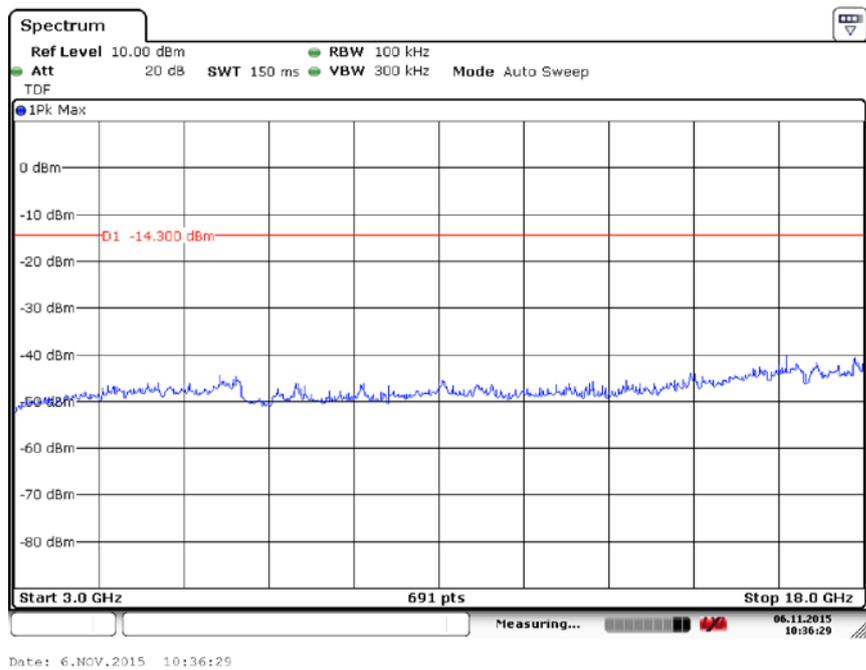
**Fig. 21 Band Edges (8DPSK, Ch 78, Hopping OFF)**



**Fig. 22 Conducted Spurious Emission (GFSK, Ch0, 2.402GHz)**



**Fig. 23 Conducted Spurious Emission (GFSK, Ch0, 30 MHz-3 GHz)**



**Fig. 24 Conducted Spurious Emission (GFSK, Ch0, 3GHz-18 GHz)**

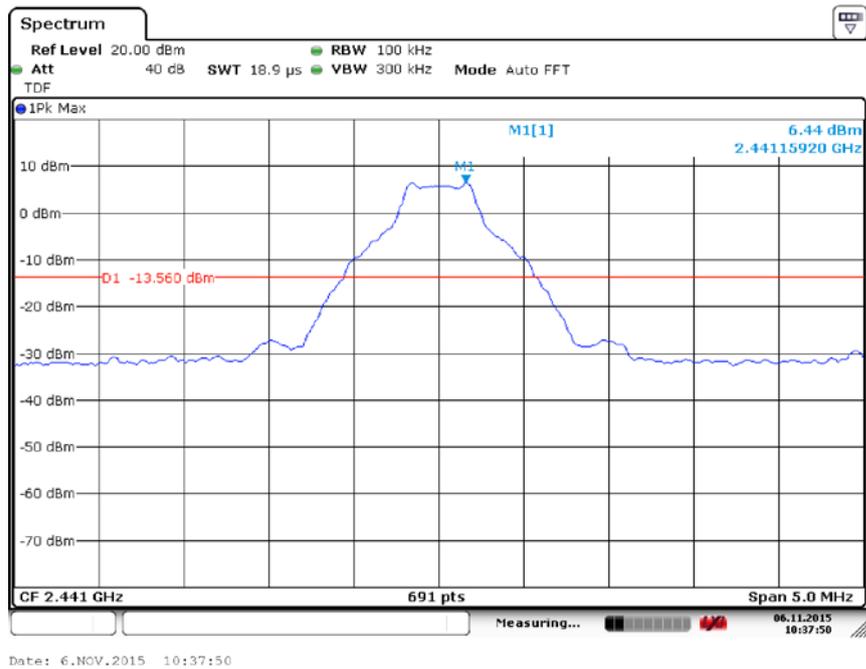


Fig. 25 Conducted Spurious Emission (GFSK, Ch39, 2.441GHz)

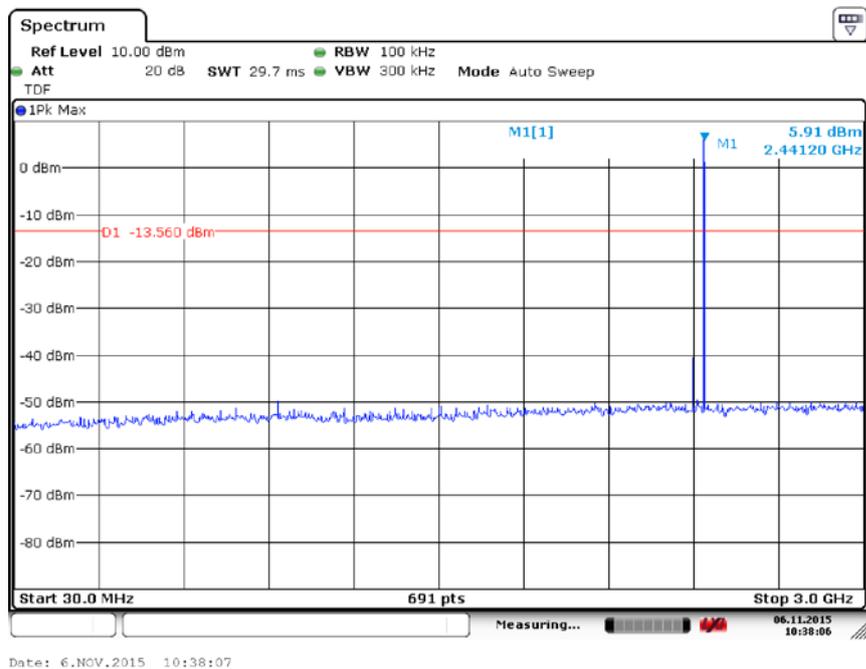
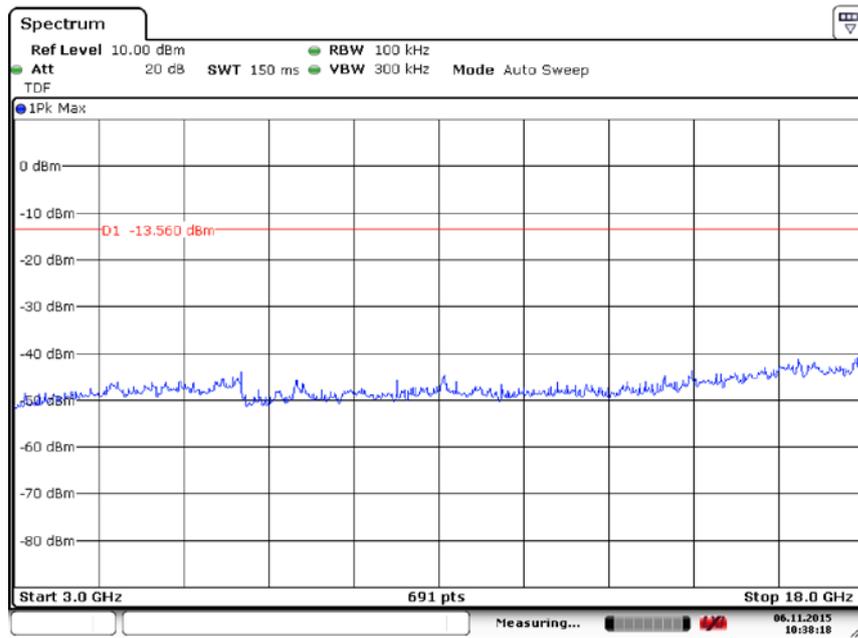
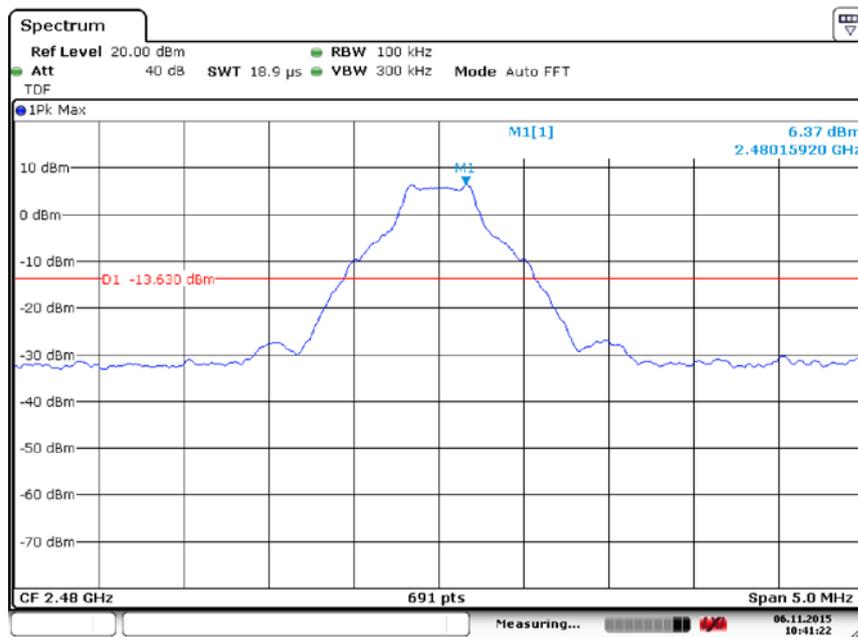


Fig. 26 Conducted Spurious Emission (GFSK, Ch39, 30 MHz-3 GHz)



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Fig. 27 Conducted Spurious Emission (GFSK, Ch39, 3GHz-18 GHz)



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Fig. 28 Conducted Spurious Emission (GFSK, Ch78, 2.480GHz)

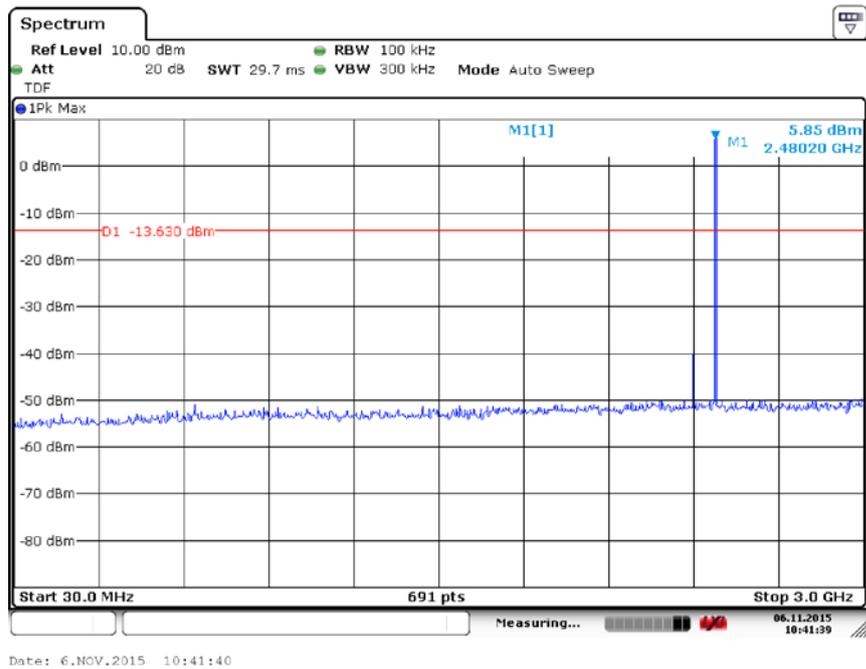


Fig. 29 Conducted Spurious Emission (GFSK, Ch78, 30 MHz-3 GHz)

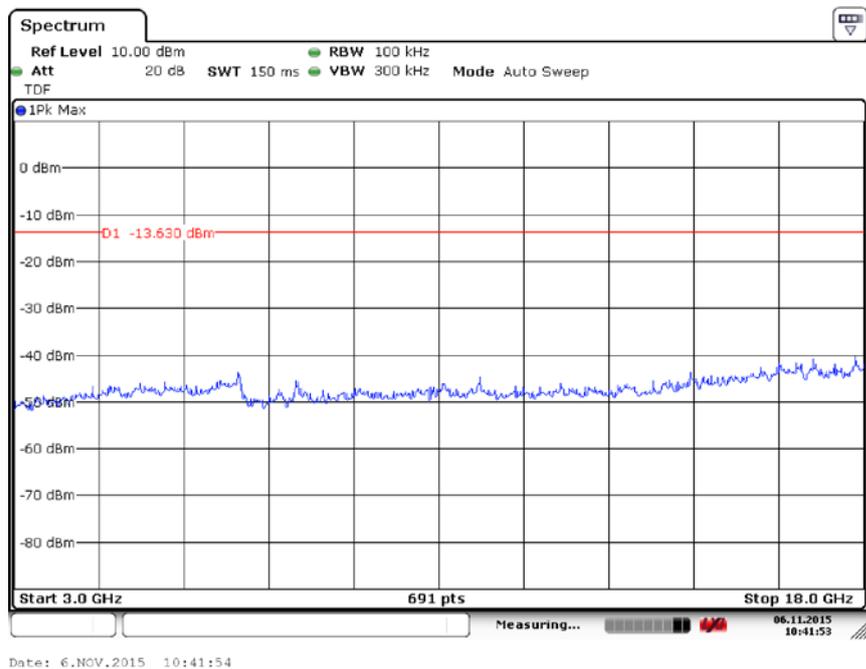


Fig. 30 Conducted Spurious Emission (GFSK, Ch78, 3GHz-18 GHz)

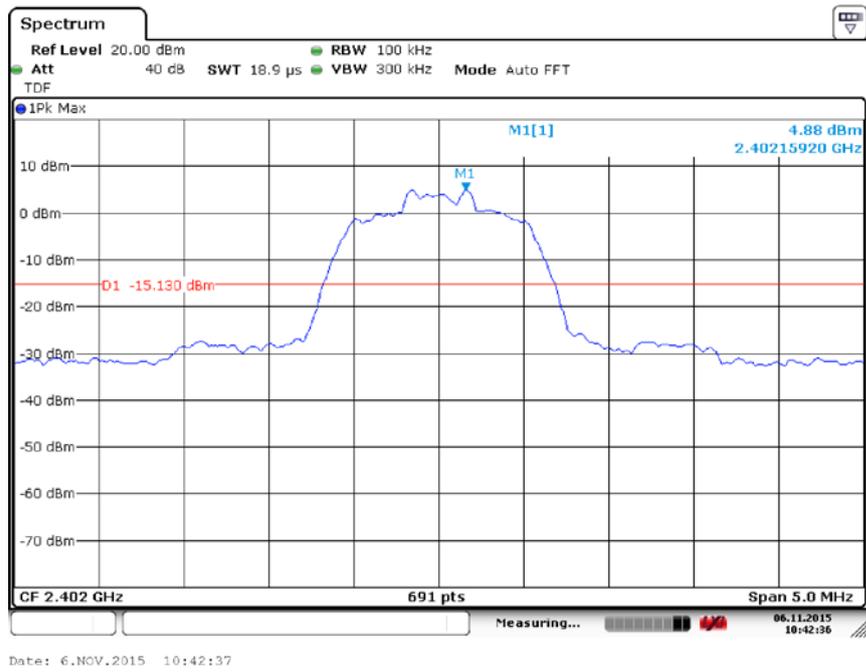


Fig. 31 Conducted Spurious Emission ( $\pi/4$  DQPSK, Ch0, 2.402GHz)

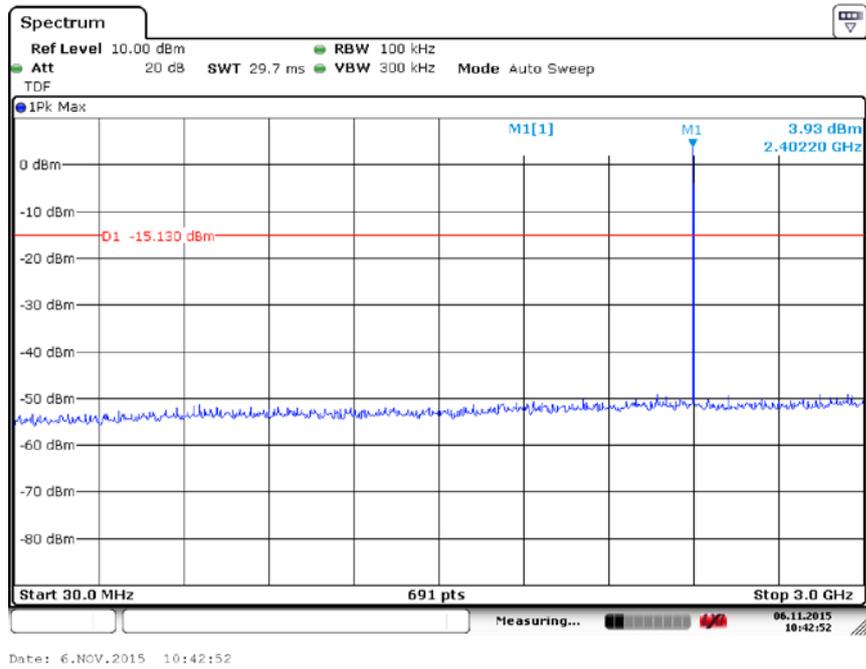


Fig. 32 Conducted Spurious Emission ( $\pi/4$  DQPSK, Ch0, 30 MHz-3 GHz)

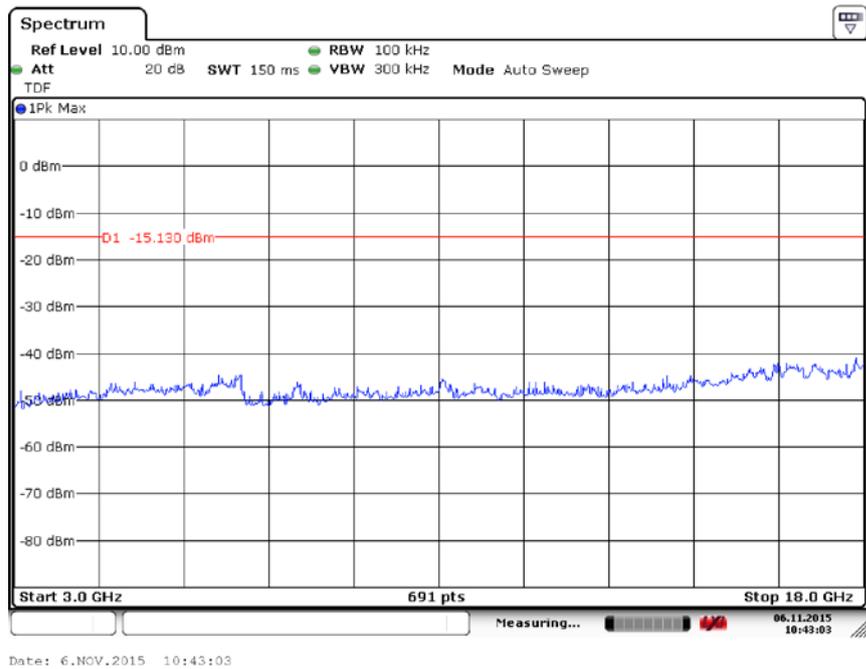


Fig. 33 Conducted Spurious Emission ( $\pi/4$  DQPSK, Ch0, 3GHz-18 GHz)

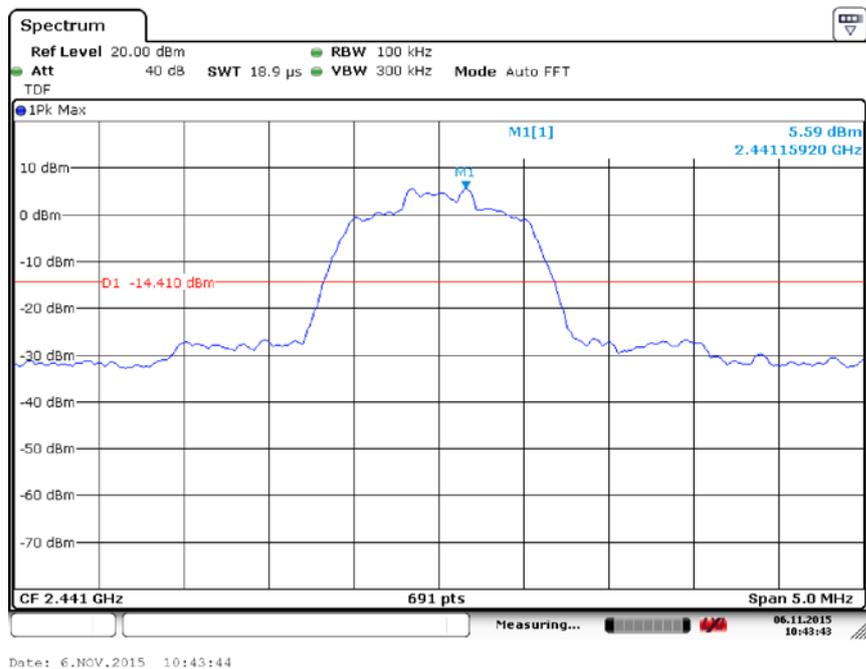


Fig. 34 Conducted Spurious Emission ( $\pi/4$  DQPSK, Ch39, 2.441GHz)

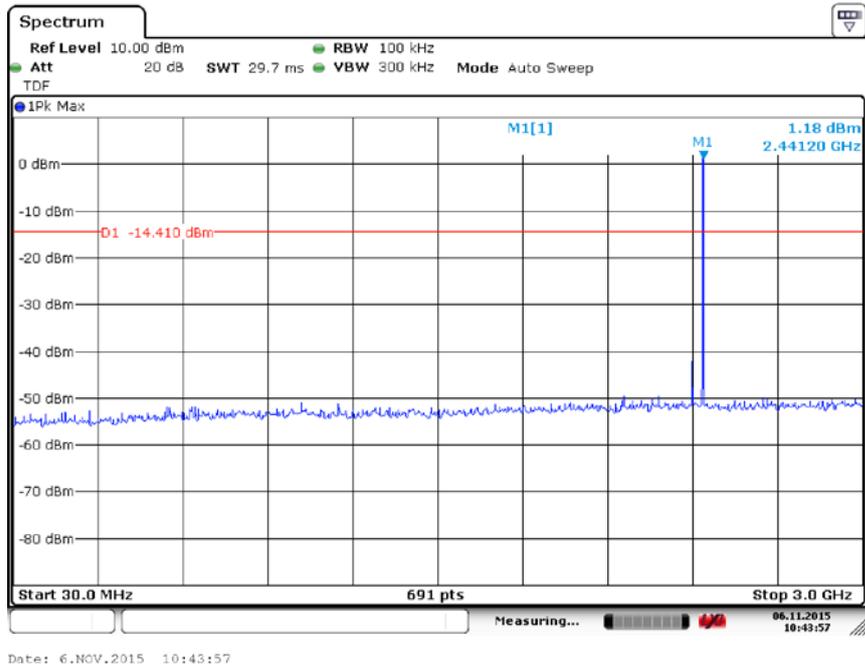


Fig. 35 Conducted Spurious Emission ( $\pi/4$  DQPSK, Ch39, 30 MHz-3 GHz)

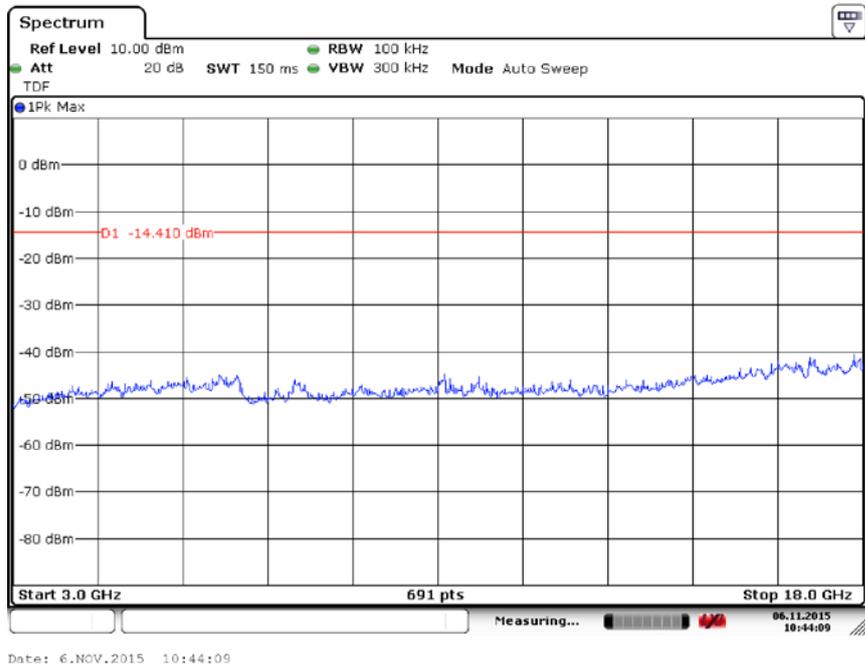


Fig. 36 Conducted Spurious Emission ( $\pi/4$  DQPSK, Ch39, 3GHz-18 GHz)

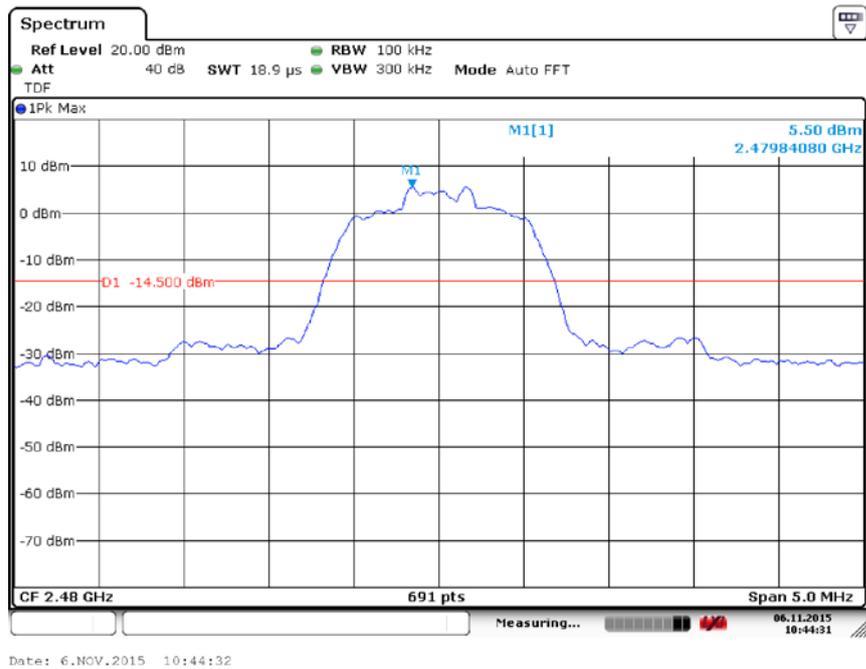


Fig. 37 Conducted Spurious Emission ( $\pi/4$  DQPSK, Ch78, 2.480GHz)

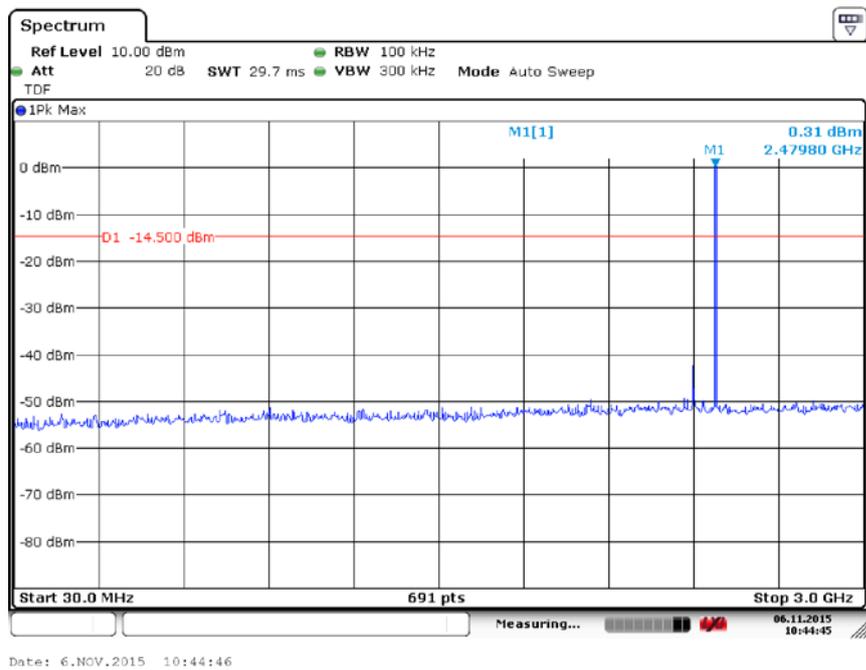


Fig. 38 Conducted Spurious Emission ( $\pi/4$  DQPSK, Ch78, 30 MHz-3 GHz)

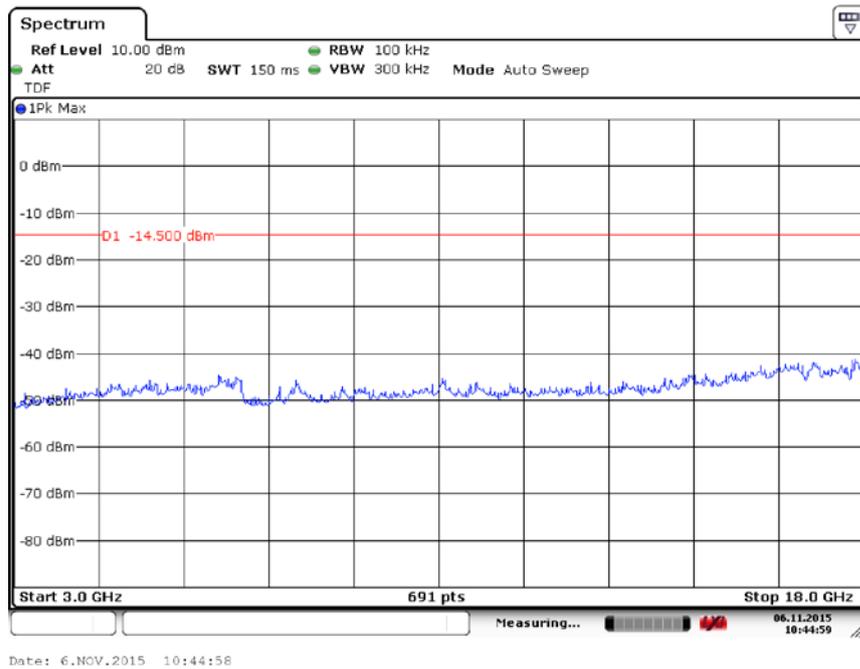


Fig. 39 Conducted Spurious Emission ( $\pi/4$  DQPSK, Ch78, 3GHz-18 GHz)

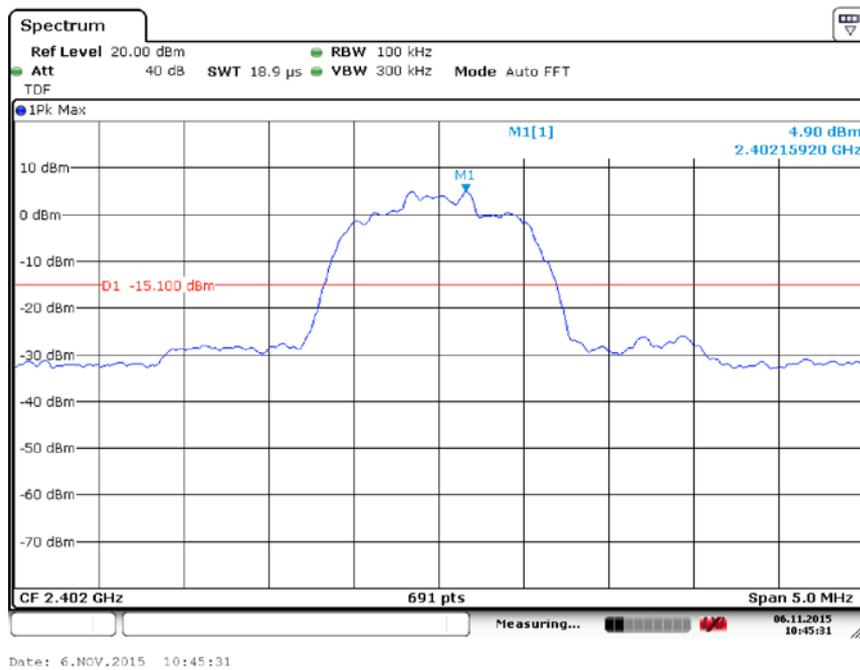
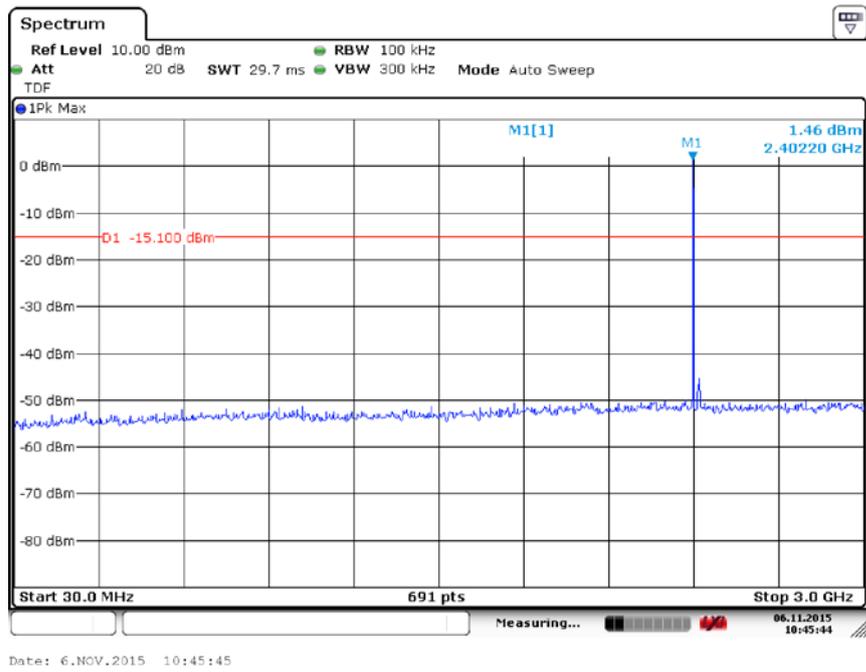
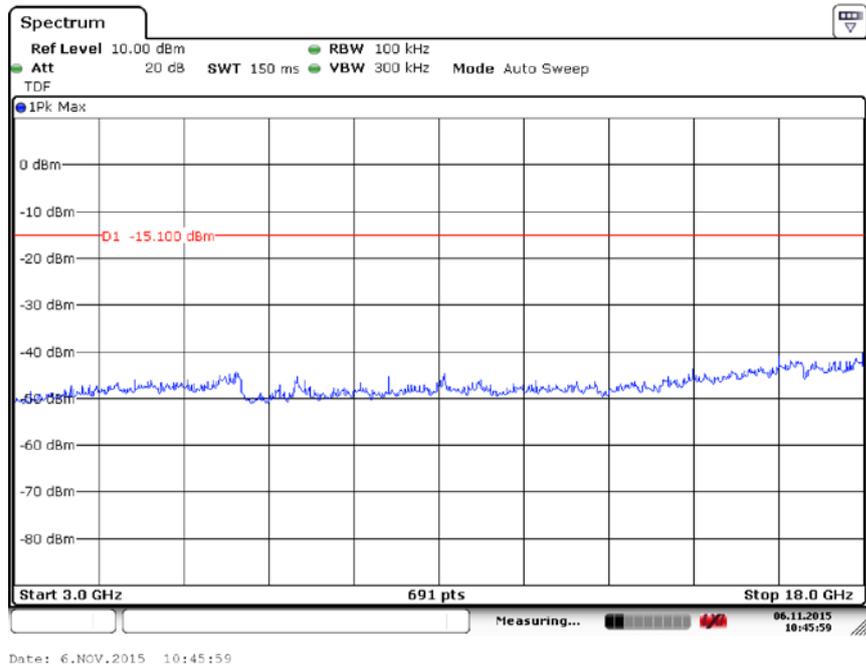


Fig. 40 Conducted Spurious Emission (8DPSK, Ch0, 2.402GHz)



**Fig. 41 Conducted Spurious Emission (8DPSK, Ch0, 30 MHz-3 GHz)**



**Fig. 42 Conducted Spurious Emission (8DPSK, Ch0, 3GHz-18 GHz)**

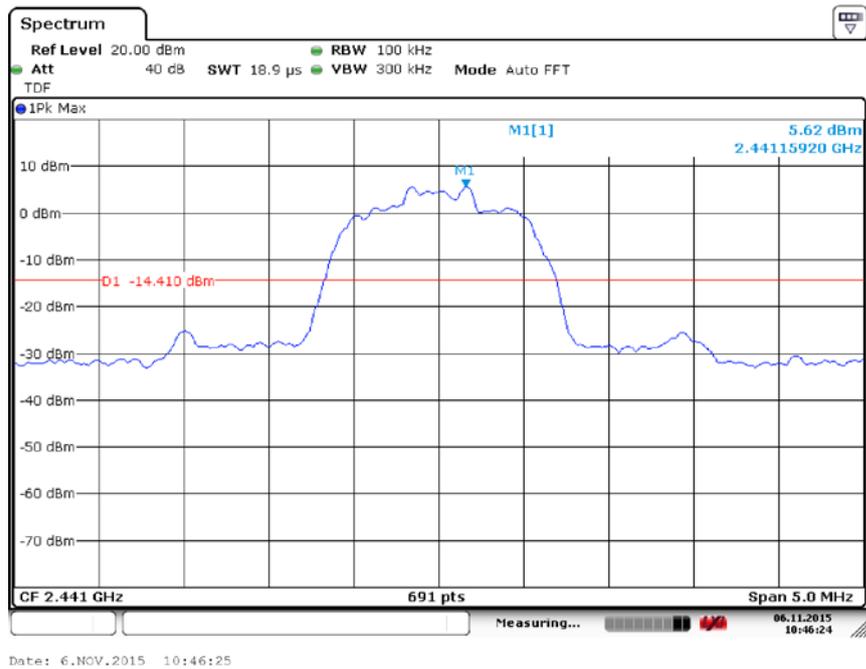


Fig. 43 Conducted Spurious Emission (8DPSK, Ch39, 2.441GHz)

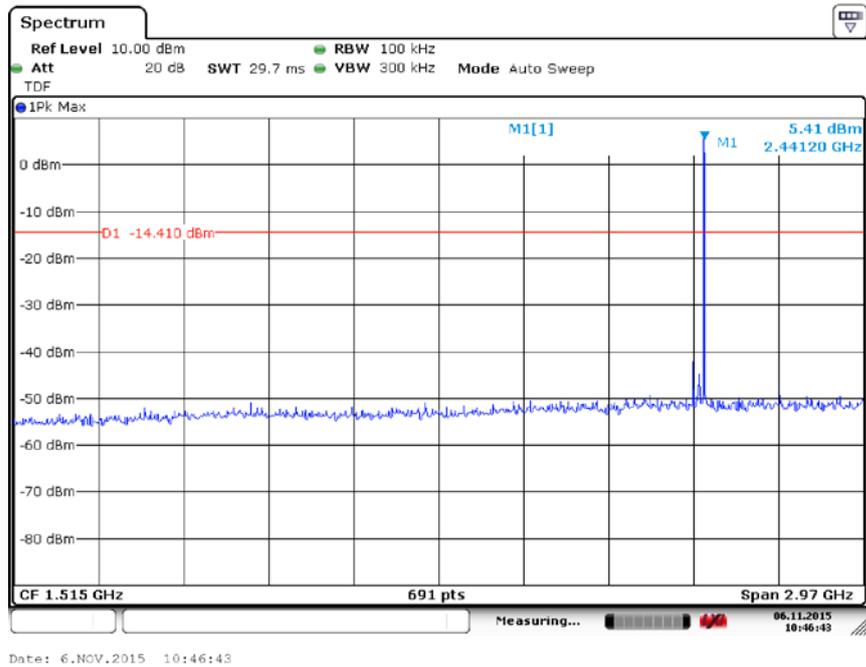


Fig. 44 Conducted Spurious Emission (8DPSK, Ch39, 30 MHz-3 GHz)

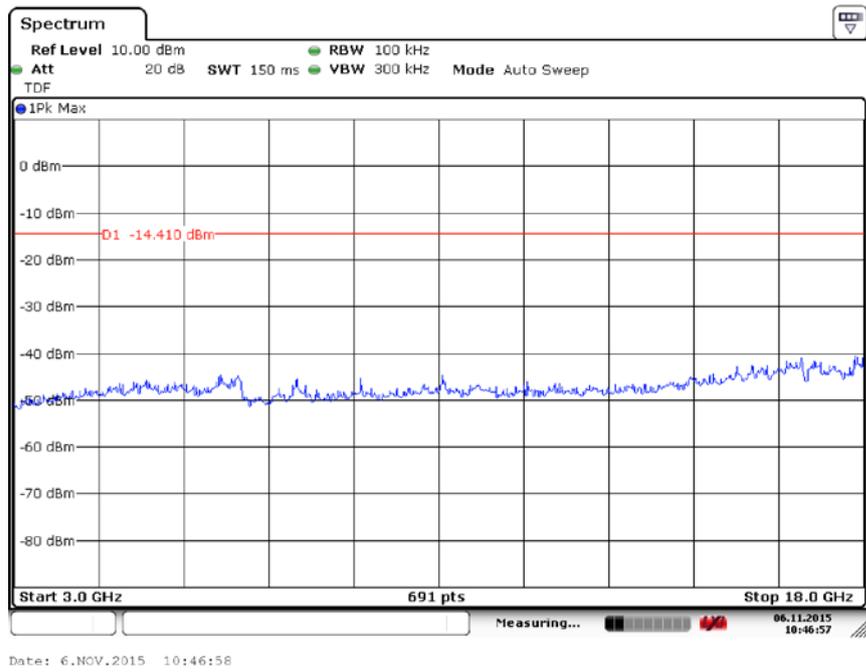


Fig. 45 Conducted Spurious Emission (8DPSK, Ch39, 3GHz-18 GHz)

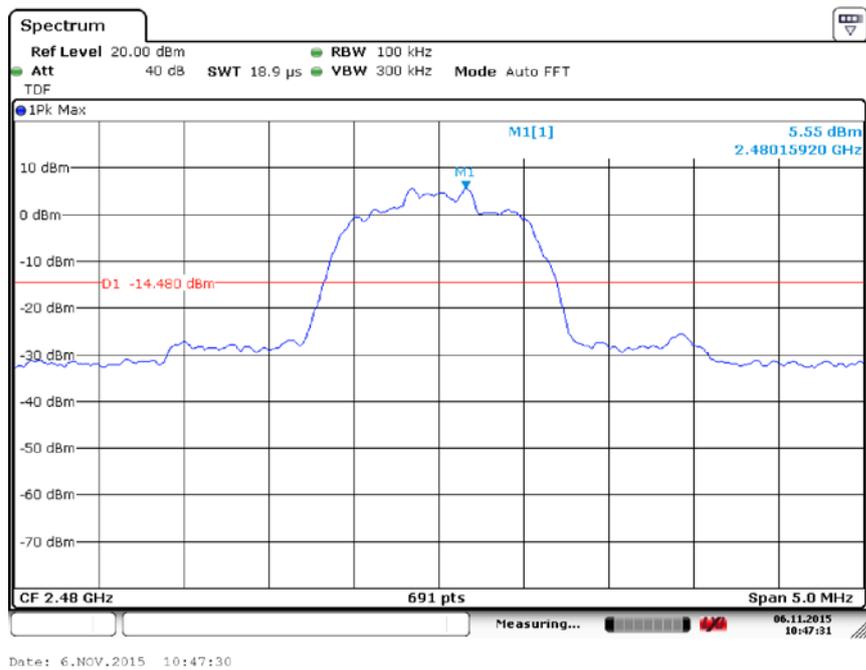


Fig. 46 Conducted Spurious Emission (8DPSK, Ch78, 2.480GHz)

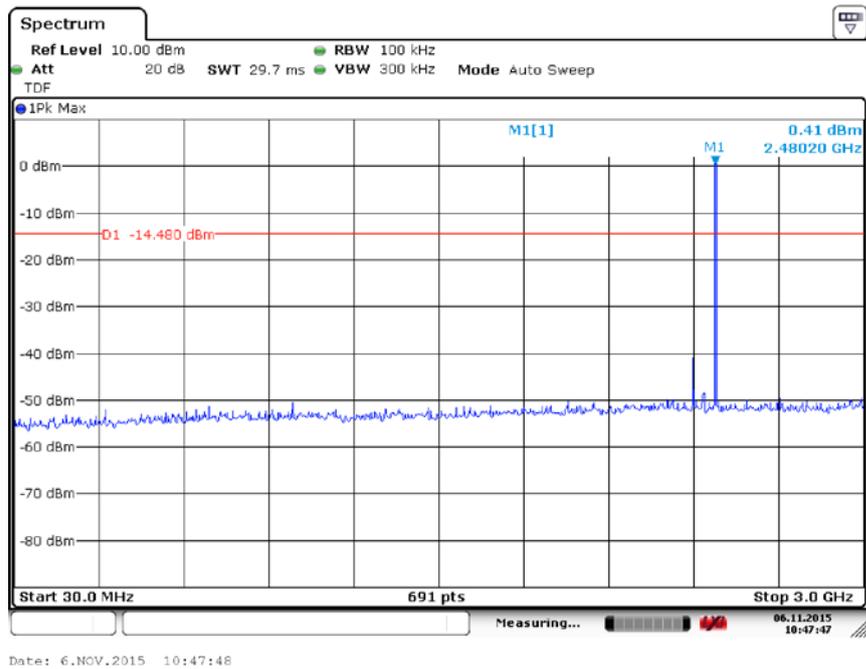


Fig. 47 Conducted Spurious Emission (8DPSK, Ch78, 30 MHz-3 GHz)

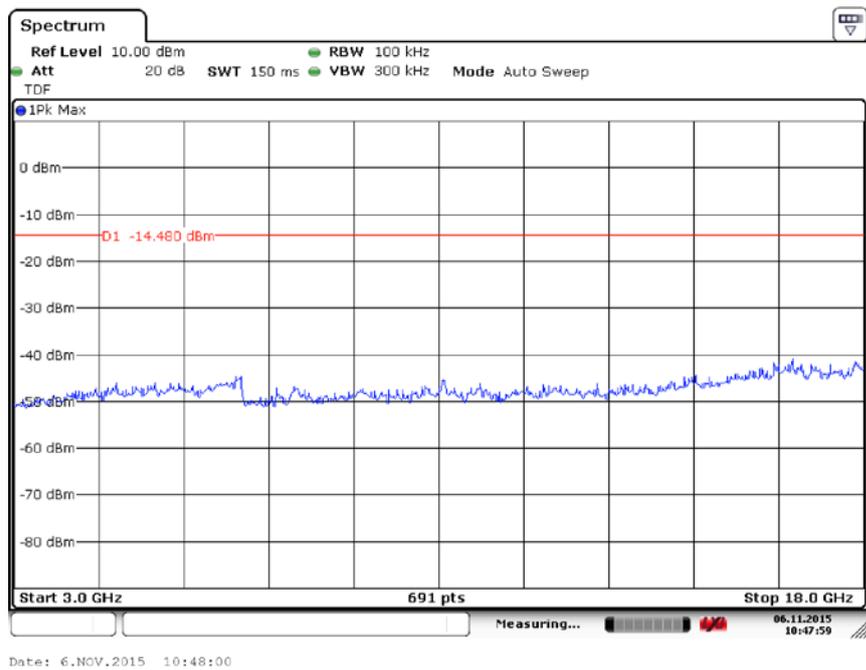
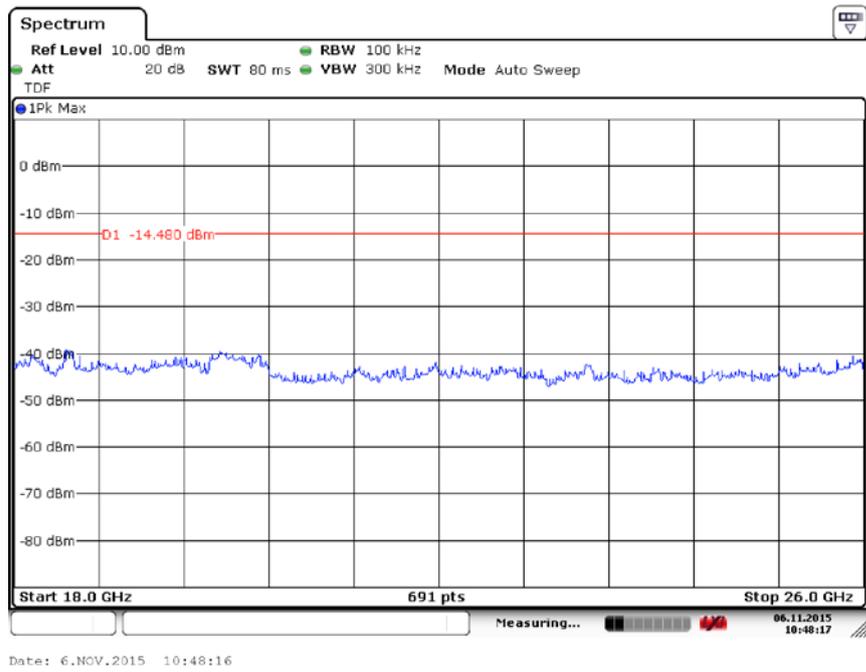
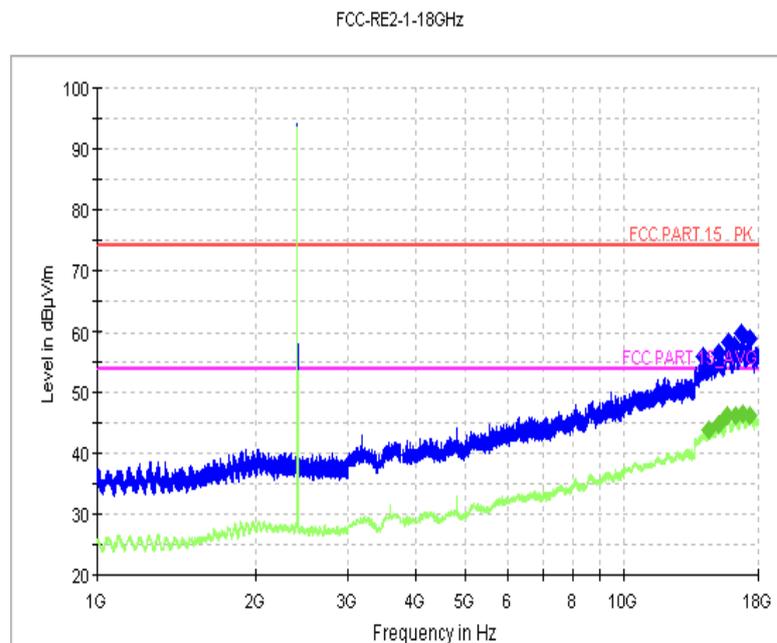


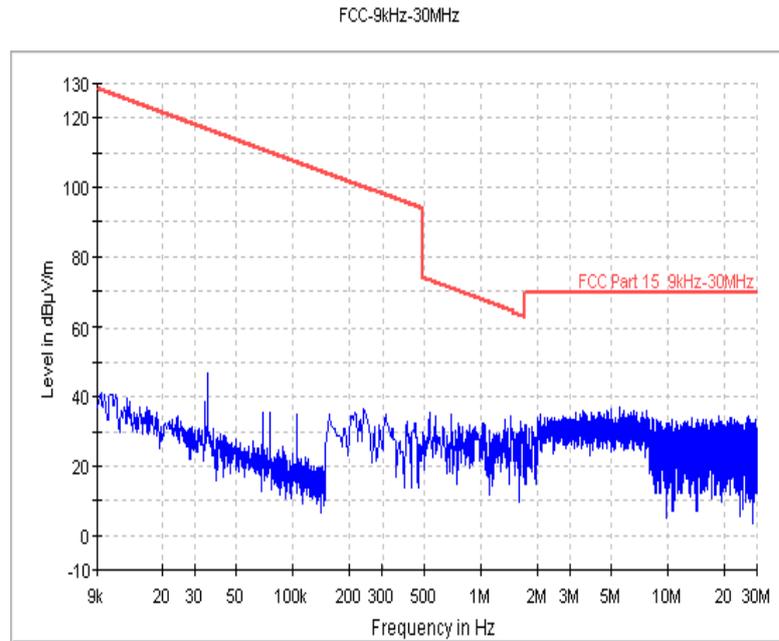
Fig. 48 Conducted Spurious Emission (8DPSK, Ch78, 3GHz-18 GHz)



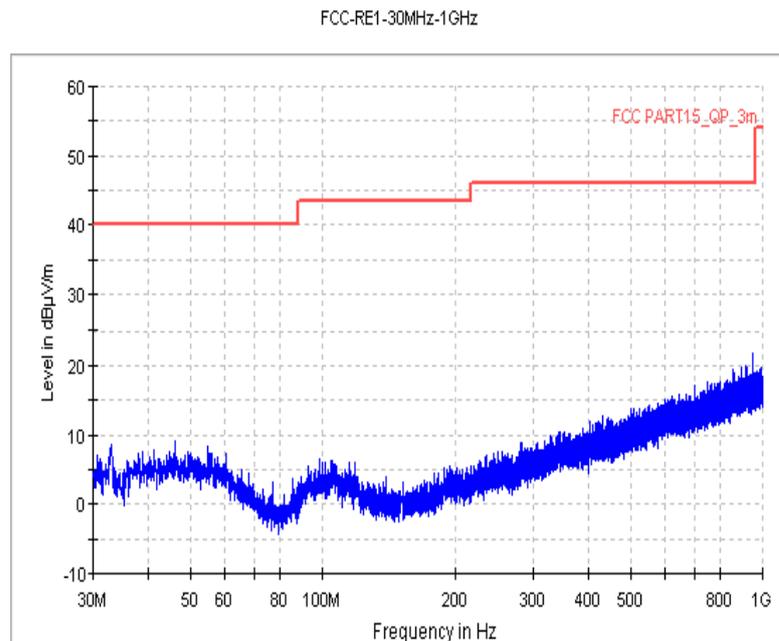
**Fig. 49 Conducted Spurious Emission (All channel, 18 GHz-26 GHz)**



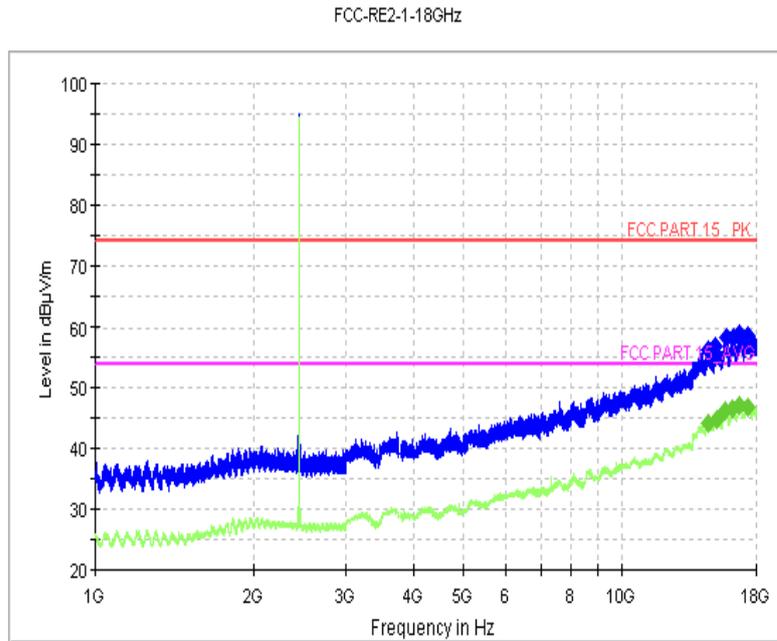
**Fig.50 Radiated Spurious Emission (GFSK, Ch0, 1 GHz-18GHz)**



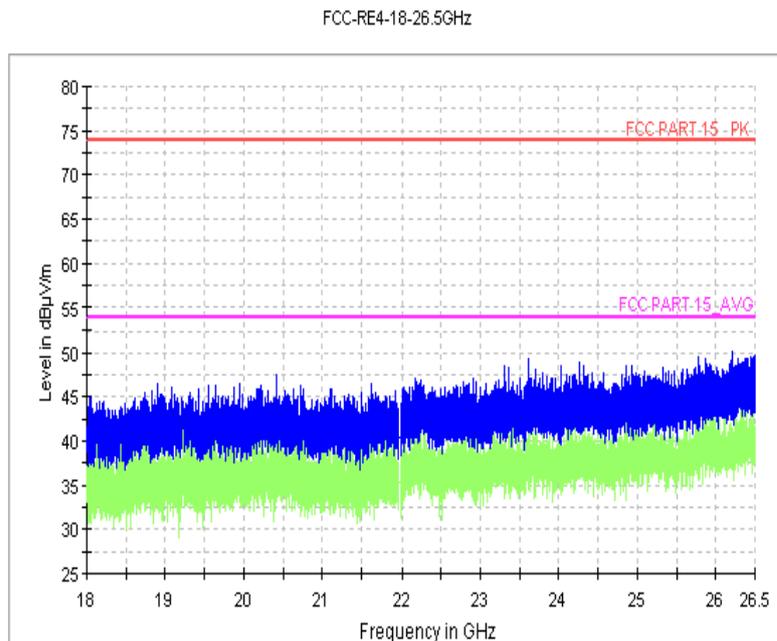
**Fig.51 Radiated Spurious Emission (GFSK, Ch39, 9 kHz-30MHz)**



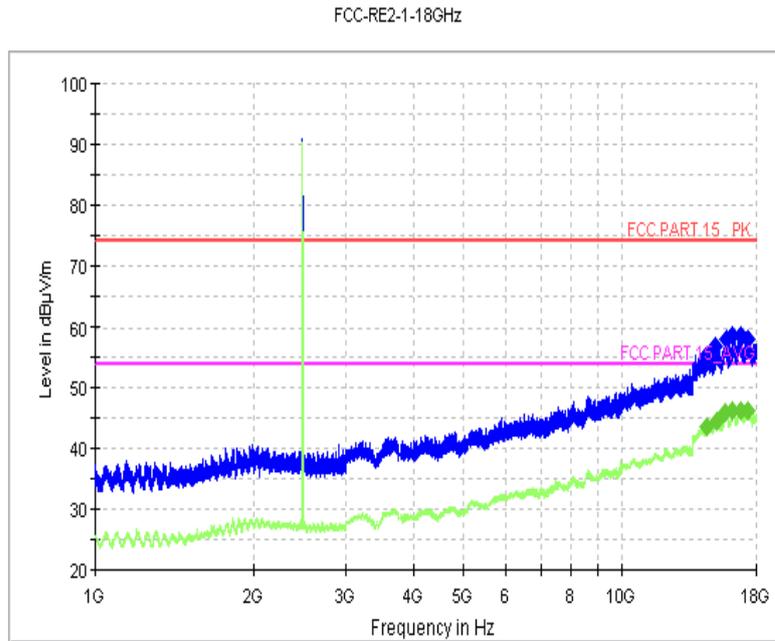
**Fig.52 Radiated Spurious Emission (GFSK, Ch39, 30MHz-1 GHz)**



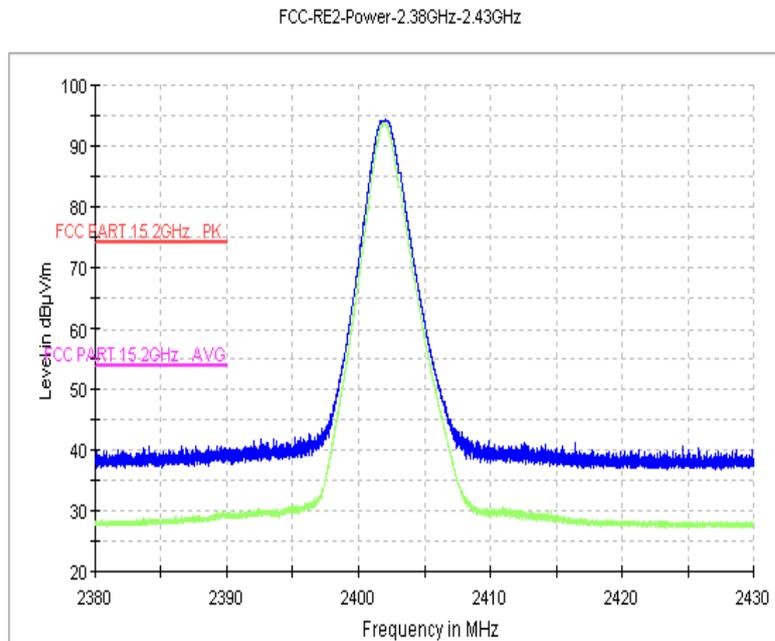
**Fig.53 Radiated Spurious Emission (GFSK, Ch39, 1 GHz-18GHz)**



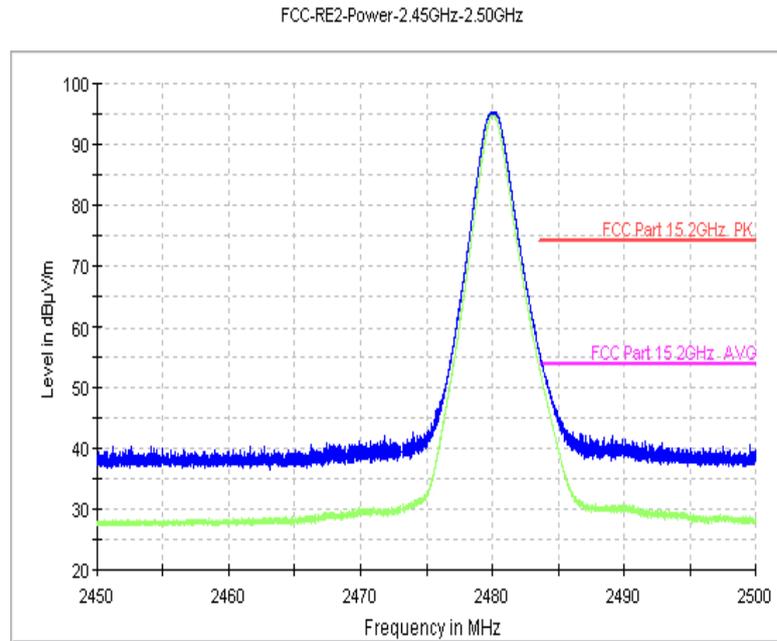
**Fig.54 Radiated Spurious Emission (GFSK, Ch39, 18 GHz-26.5GHz)**



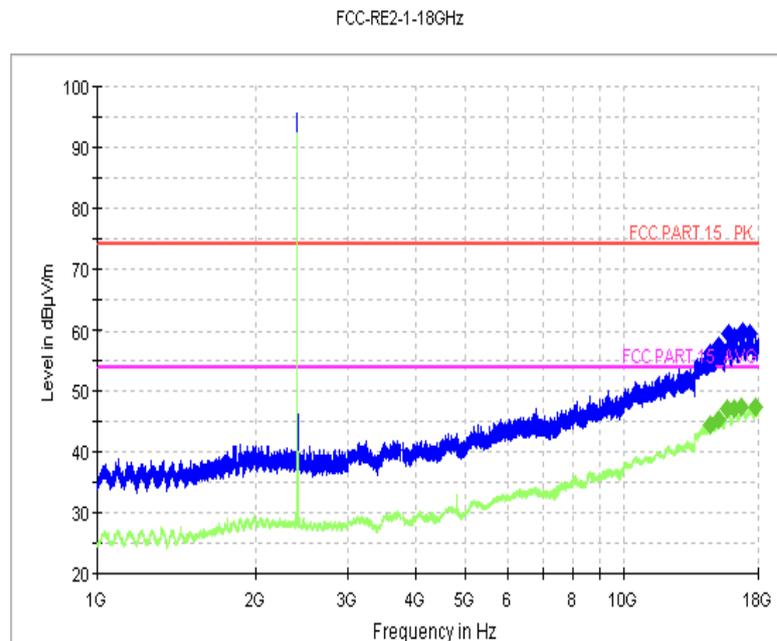
**Fig.55 Radiated Spurious Emission (GFSK, Ch78, 1 GHz-18 GHz)**



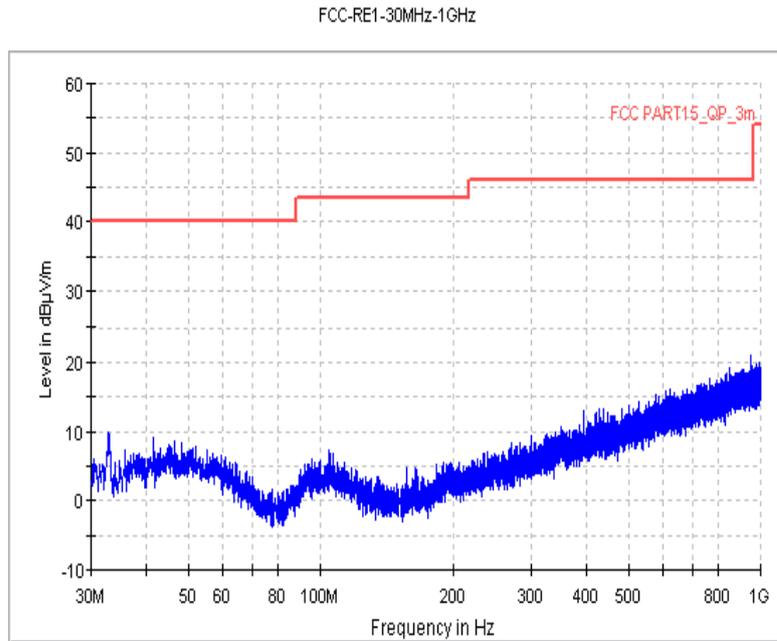
**Fig.56 Radiated Emission Power (GFSK, Ch0, 2380GHz~2450GHz)**



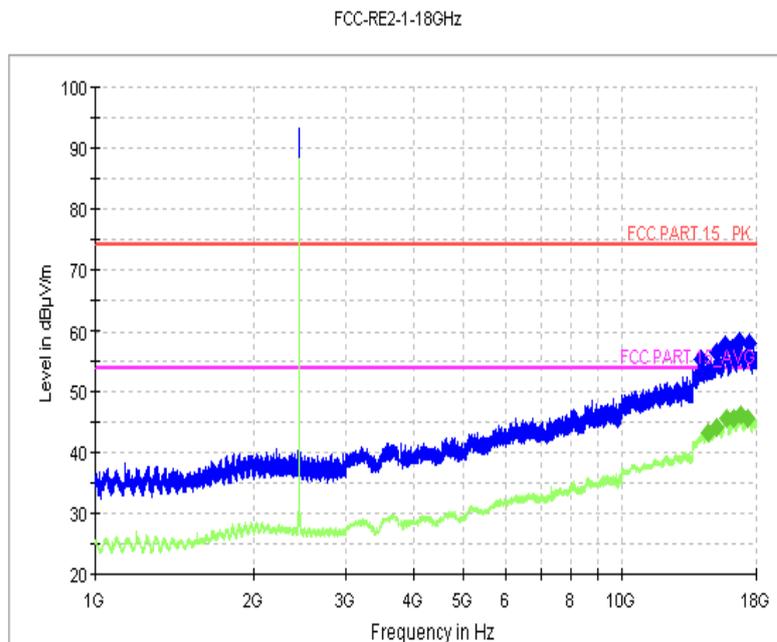
**Fig.57 Radiated Emission Power (GFSK, Ch78, 2450GHz~2500GHz)**



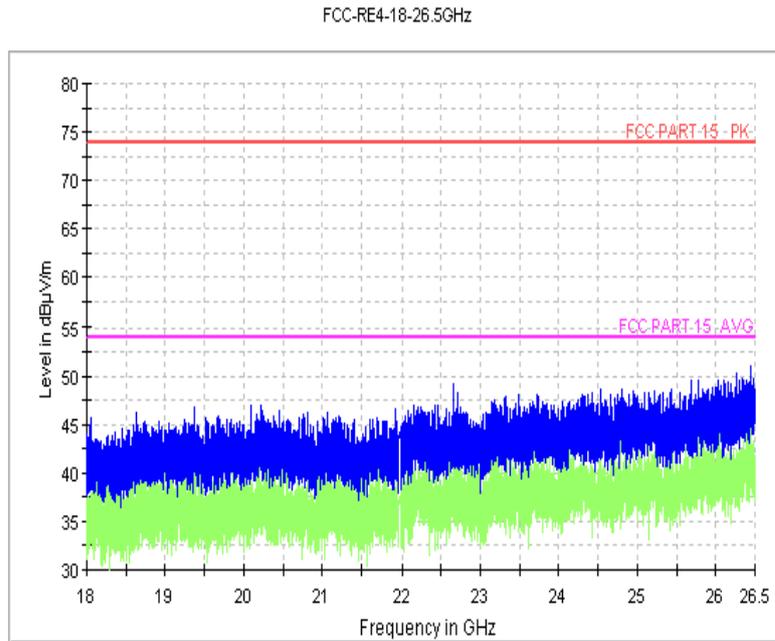
**Fig.58 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch0, 1 GHz-18GHz)**



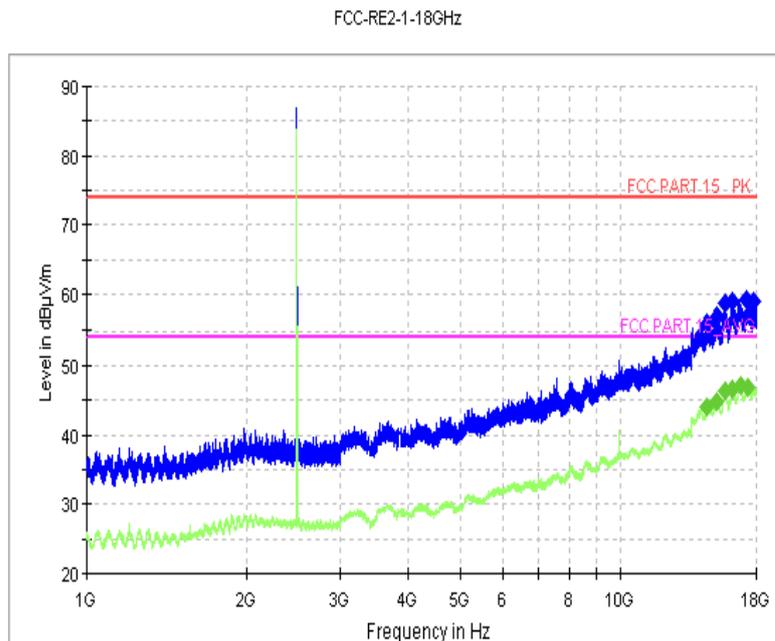
**Fig.59 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch39, 30MHz-1 GHz)**



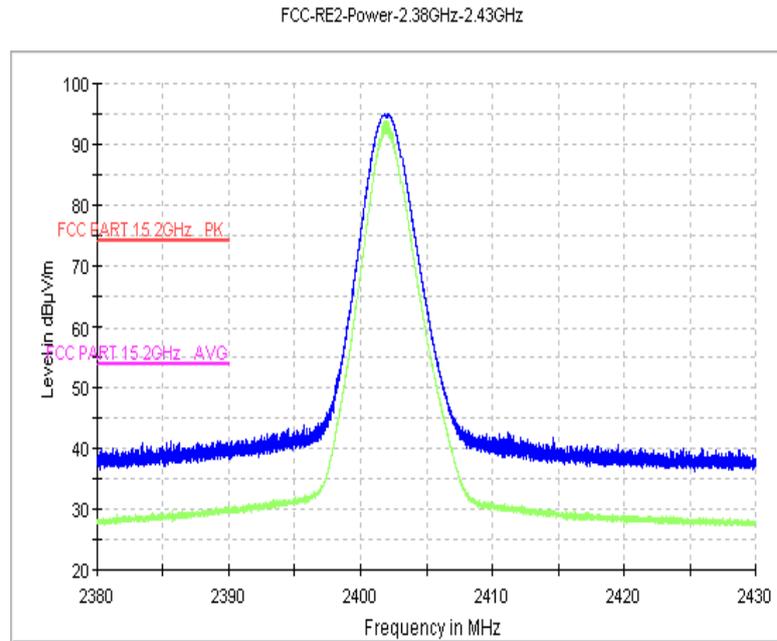
**Fig.60 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch39, 1 GHz-18GHz)**



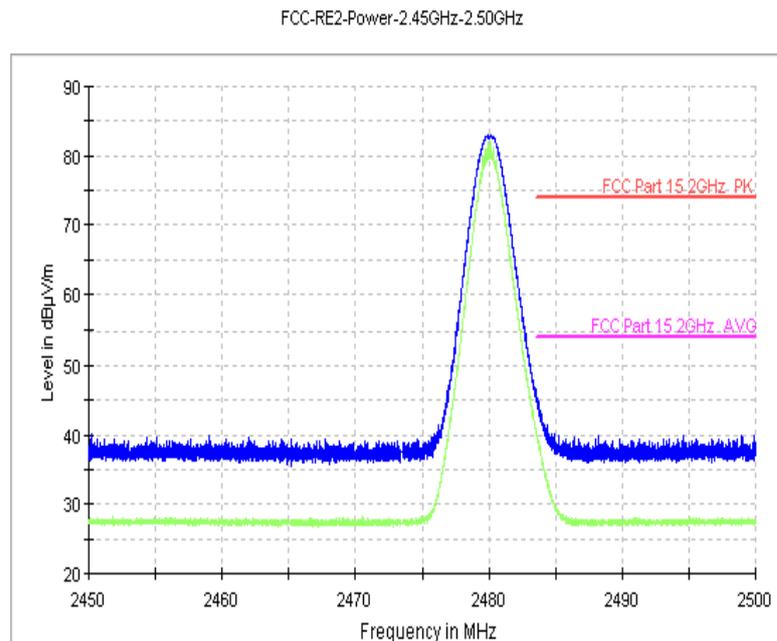
**Fig.61 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch39, 18 GHz-26.5GHz)**



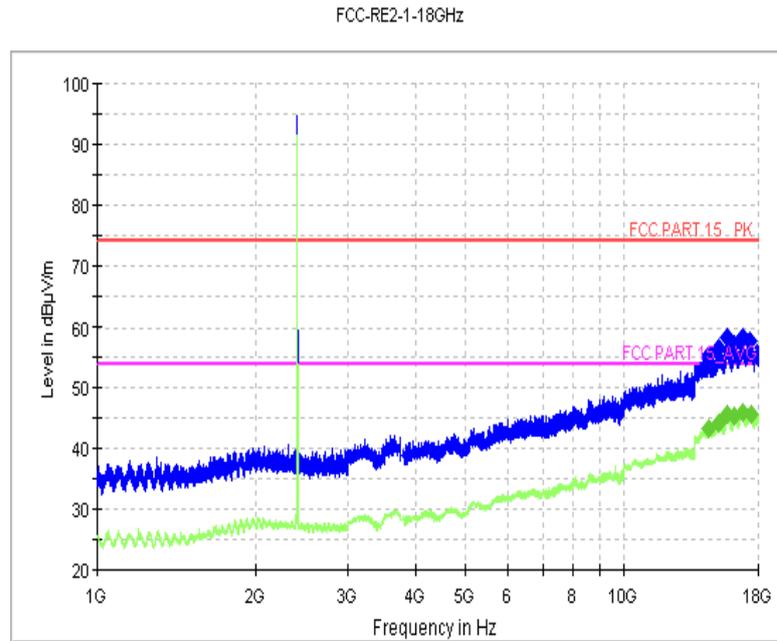
**Fig.62 Radiated Spurious Emission ( $\pi/4$  DQPSK, Ch78, 1 GHz-18 GHz)**



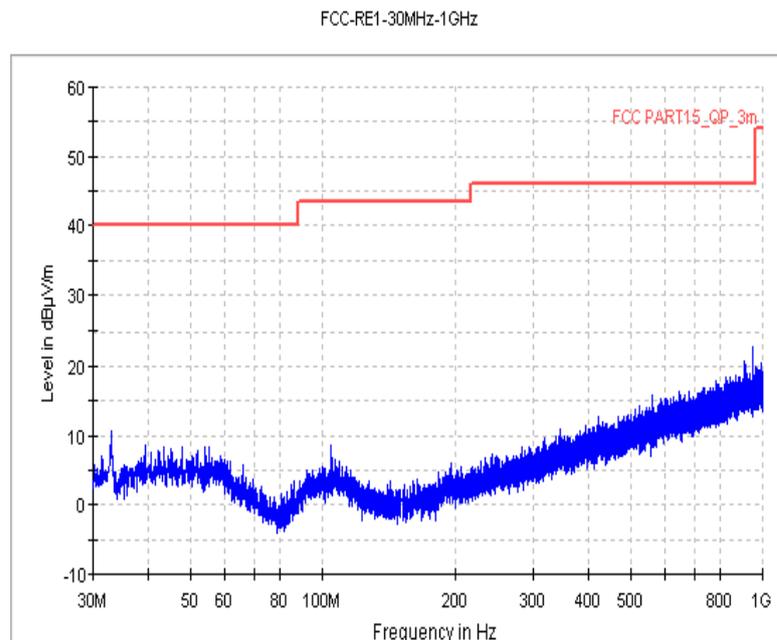
**Fig.63 Radiated Emission Power ( $\pi/4$  DQPSK, Ch0, 2380GHz~2450GHz)**



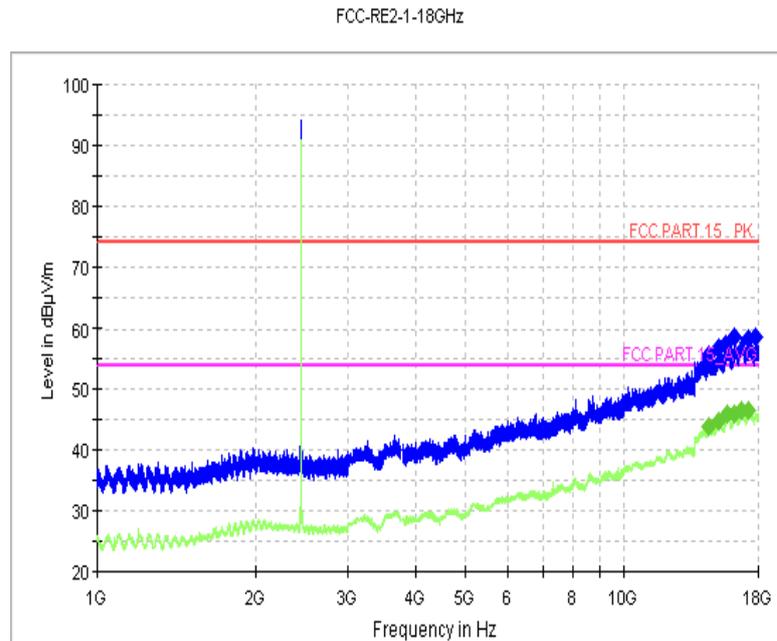
**Fig.64 Radiated Emission Power ( $\pi/4$  DQPSK, Ch78, 2450GHz~2500GHz)**



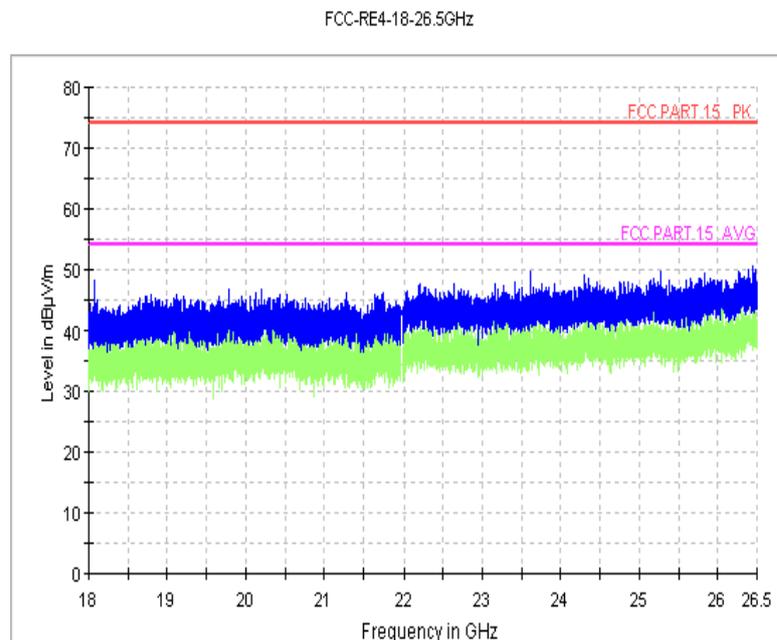
**Fig.65 Radiated Spurious Emission (8DPSK, Ch0, 1 GHz-18GHz)**



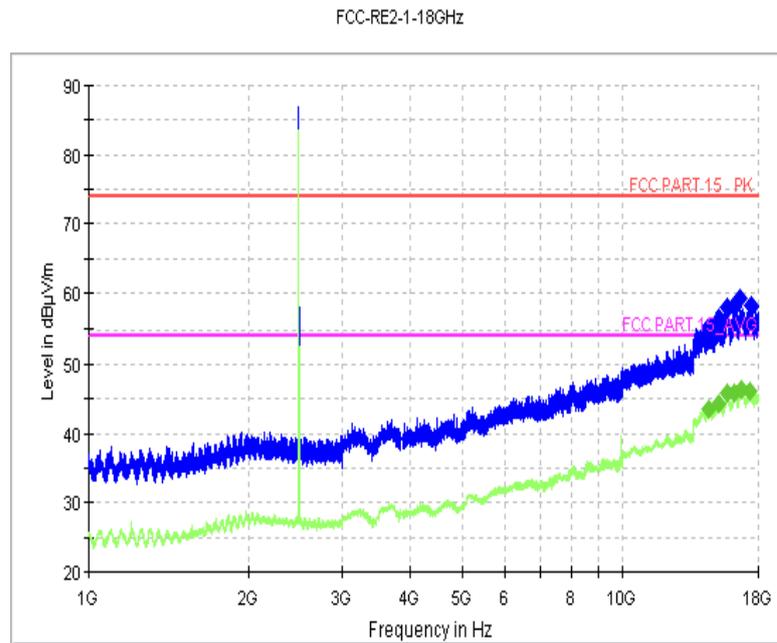
**Fig.66 Radiated Spurious Emission (8DPSK, Ch39, 30MHz-1 GHz)**



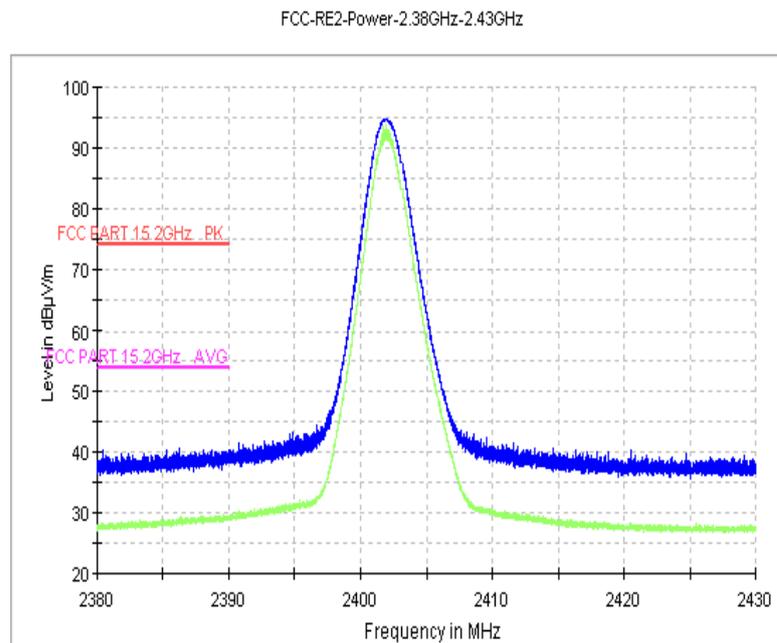
**Fig.67 Radiated Spurious Emission (8DPSK, Ch39, 1 GHz-18GHz)**



**Fig.68 Radiated Spurious Emission (8DPSK, Ch39, 18 GHz-26.5GHz)**



**Fig.69 Radiated Spurious Emission (8DPSK, Ch78, 1 GHz-18 GHz)**



**Fig.70 Radiated Emission Power (8DPSK, Ch0, 2380GHz~2450GHz)**

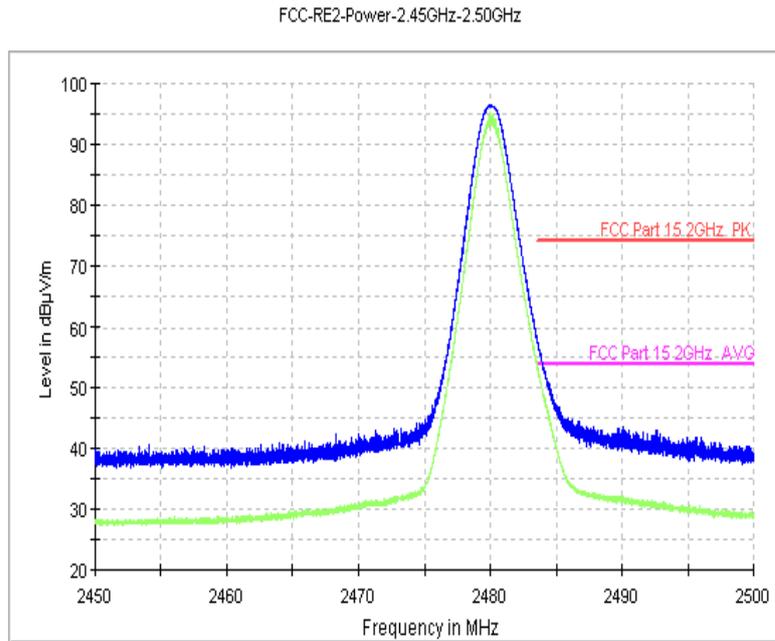


Fig.71 Radiated Emission Power (8DPSK, Ch78, 2450GHz~2500GHz)

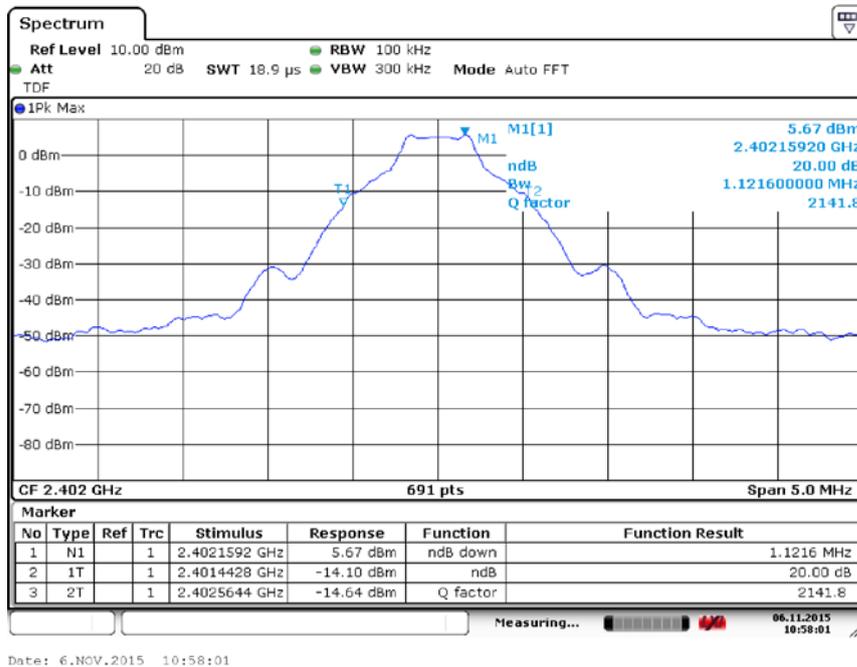


Fig. 72 Occupied 20dB Bandwidth (GFSK, Ch 0)

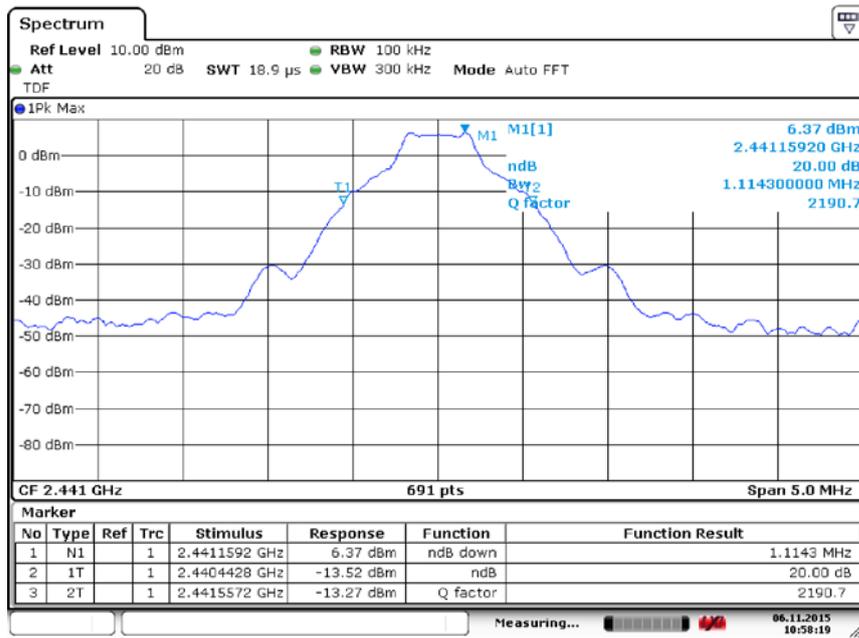


Fig. 73 Occupied 20dB Bandwidth (GFSK, Ch 39)

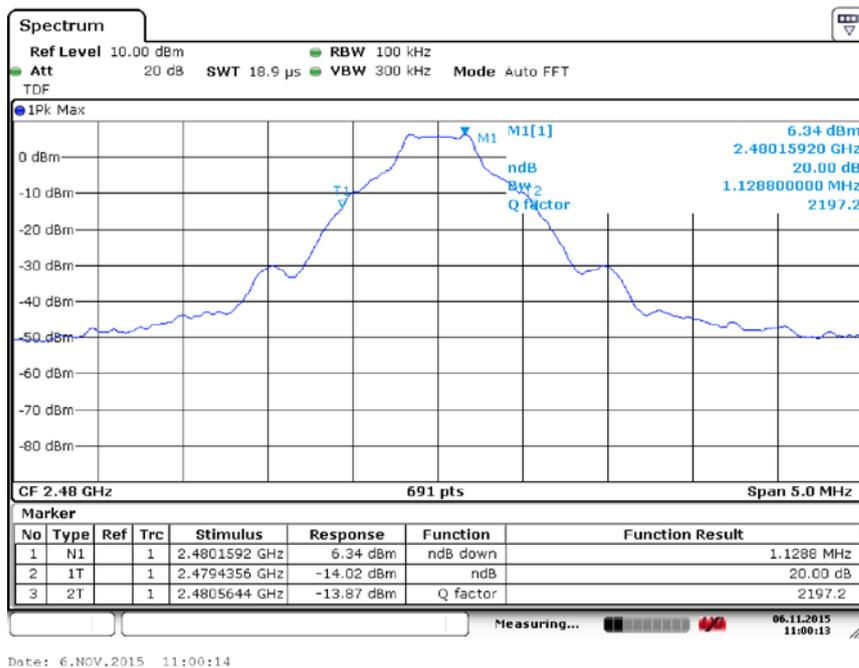
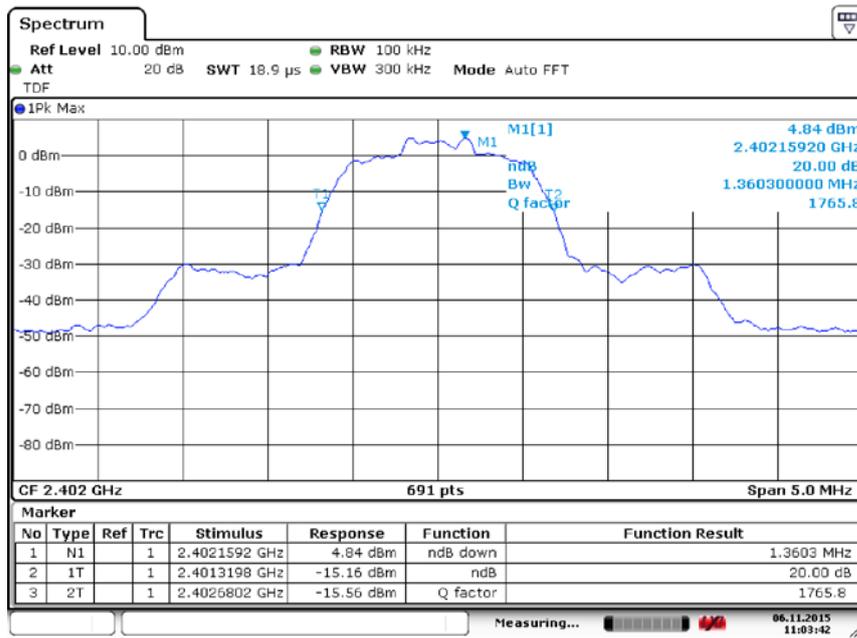
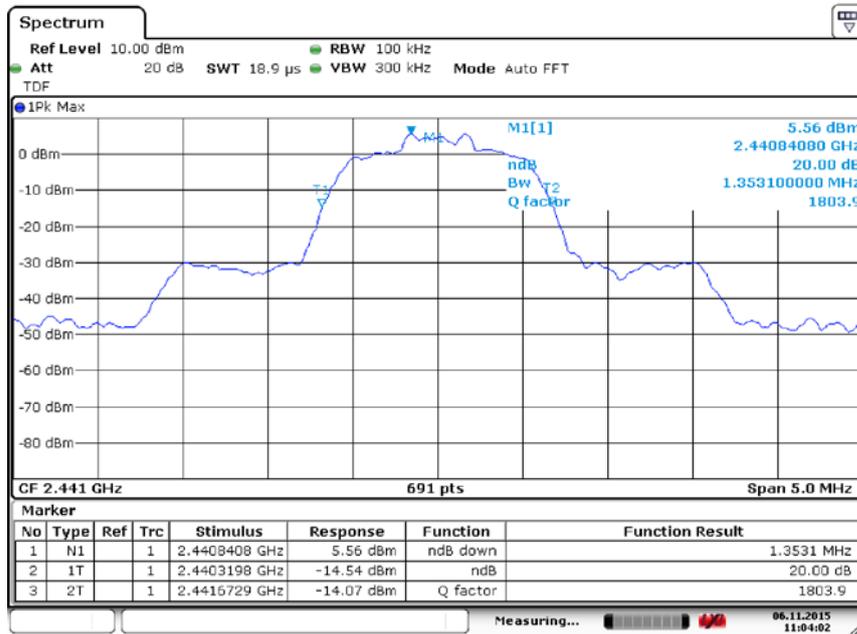


Fig. 74 Occupied 20dB Bandwidth (GFSK, Ch 78)



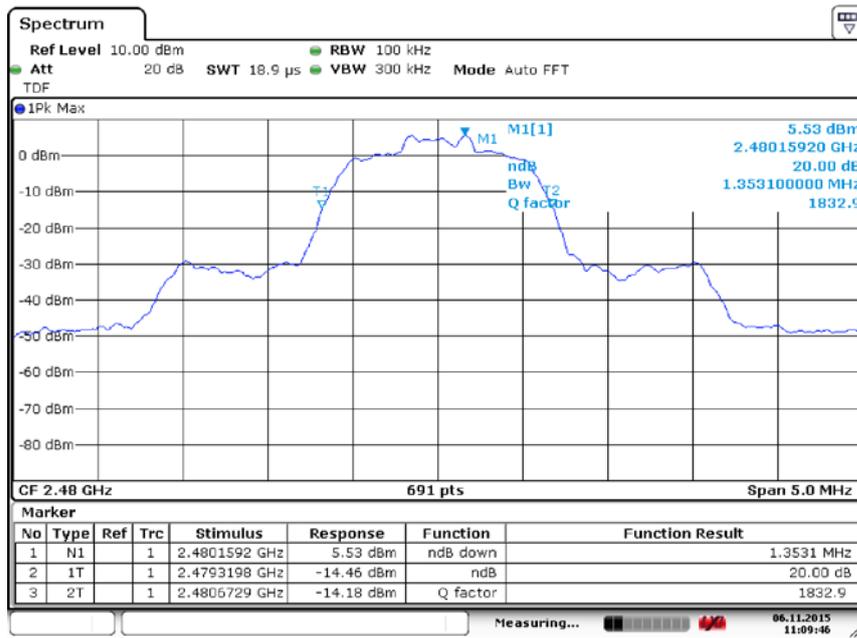
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Fig. 75 Occupied 20dB Bandwidth ( $\pi/4$  DQPSK, Ch 0)



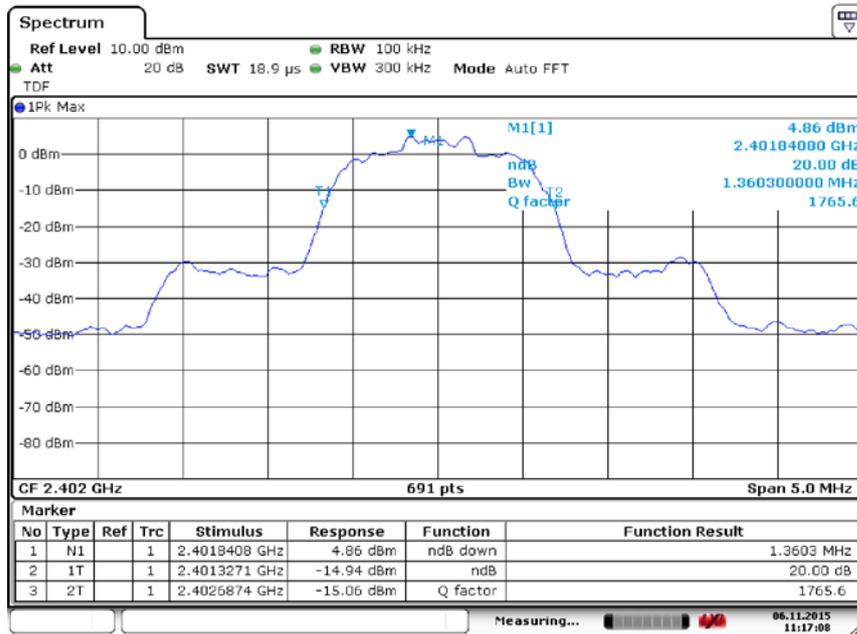
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Fig. 76 Occupied 20dB Bandwidth ( $\pi/4$  DQPSK, Ch 39)



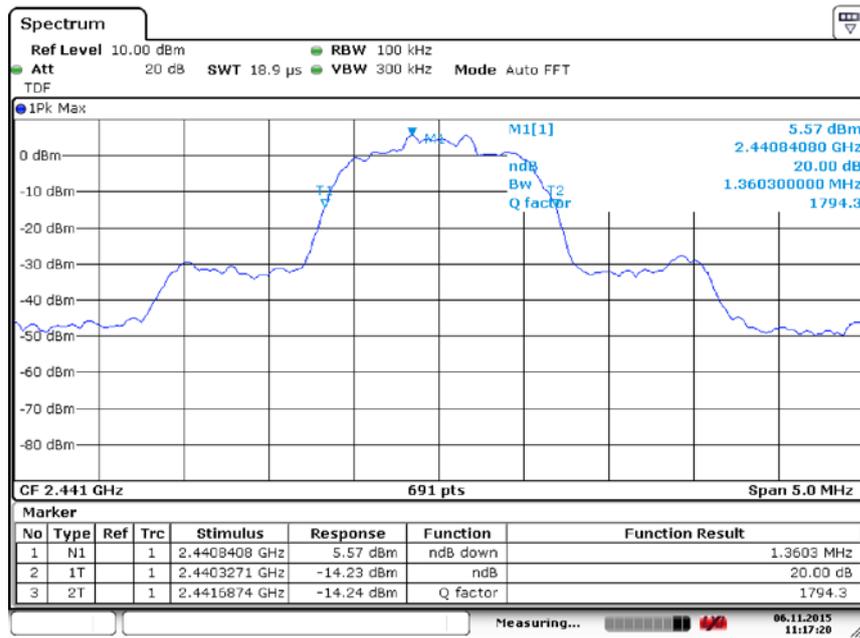
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Fig. 77 Occupied 20dB Bandwidth ( $\pi/4$  DQPSK, Ch 78)



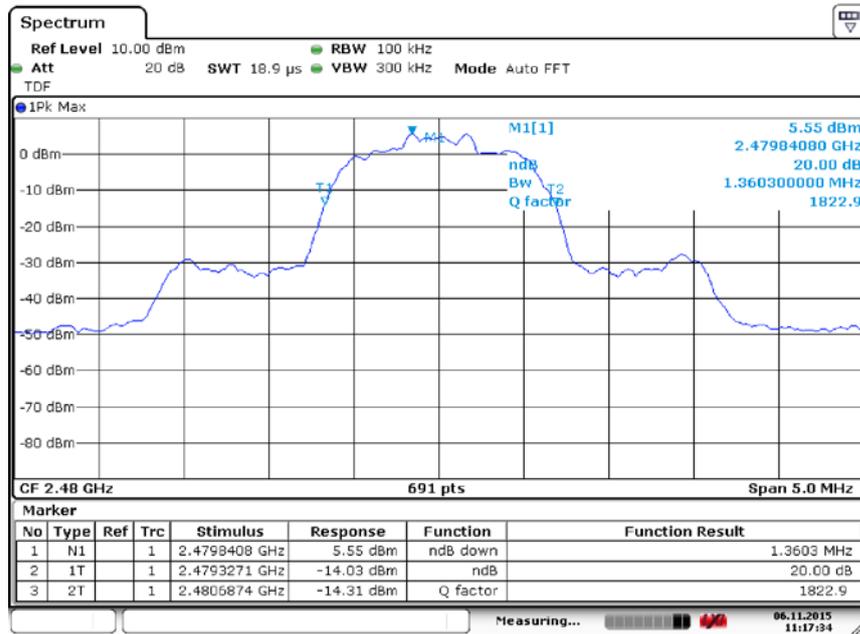
Date: 6.NOV.2015 11:17:07

Fig. 78 Occupied 20dB Bandwidth (8DPSK, Ch 0)



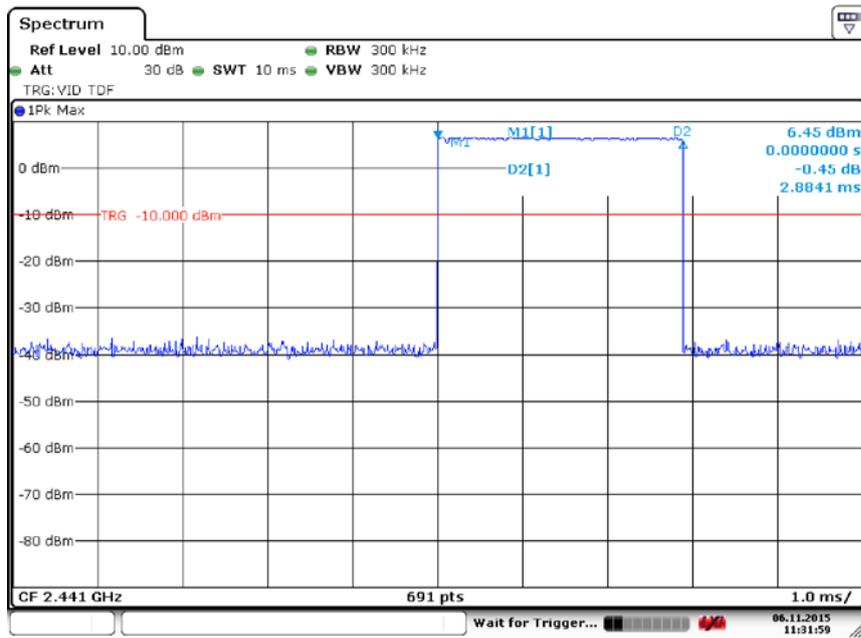
Date: 6.NOV.2015 11:17:19

Fig. 79 Occupied 20dB Bandwidth (8DPSK, Ch 39)



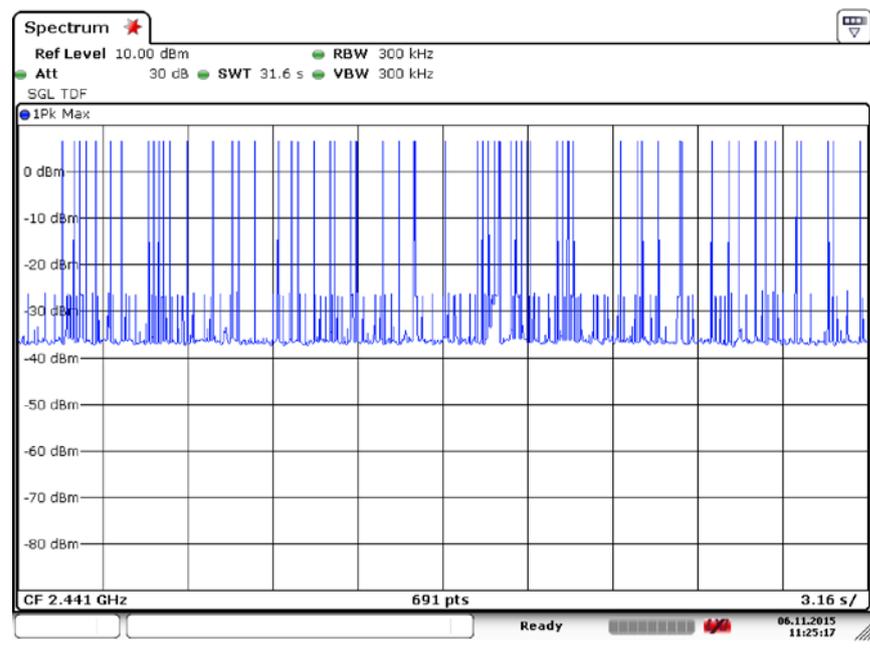
Date: 6.NOV.2015 11:17:33

Fig. 80 Occupied 20dB Bandwidth (8DPSK, Ch 78)



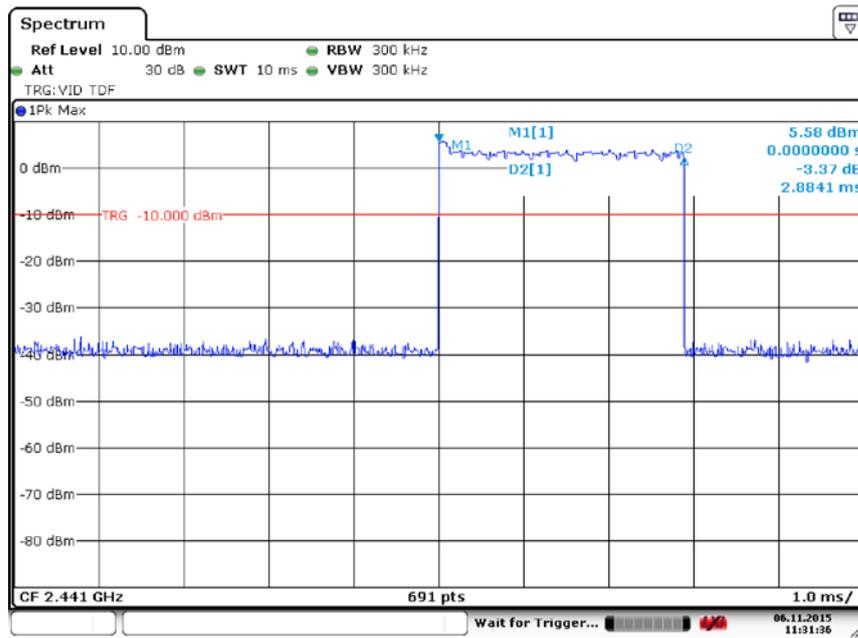
Date: 6.NOV.2015 11:31:59

**Fig. 81 Time of Occupancy(Dwell Time) (GFSK, Ch39)**



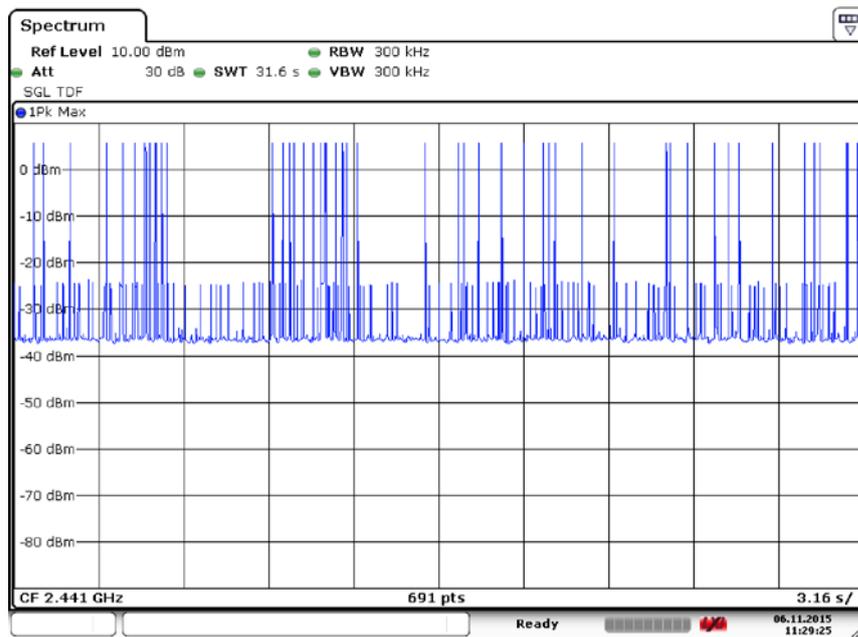
Date: 6.NOV.2015 11:25:16

**Fig. 82 Number of Transmissions (GFSK, Ch39)**



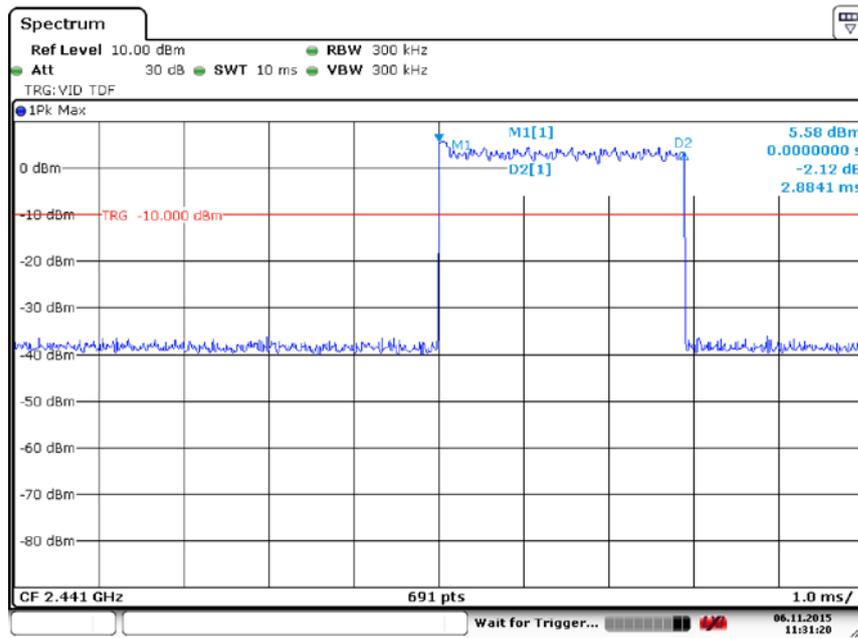
Date: 6.NOV.2015 11:31:36

**Fig. 83 Time of Occupancy(Dwell Time) ( $\pi/4$  DQPSK, Ch39)**



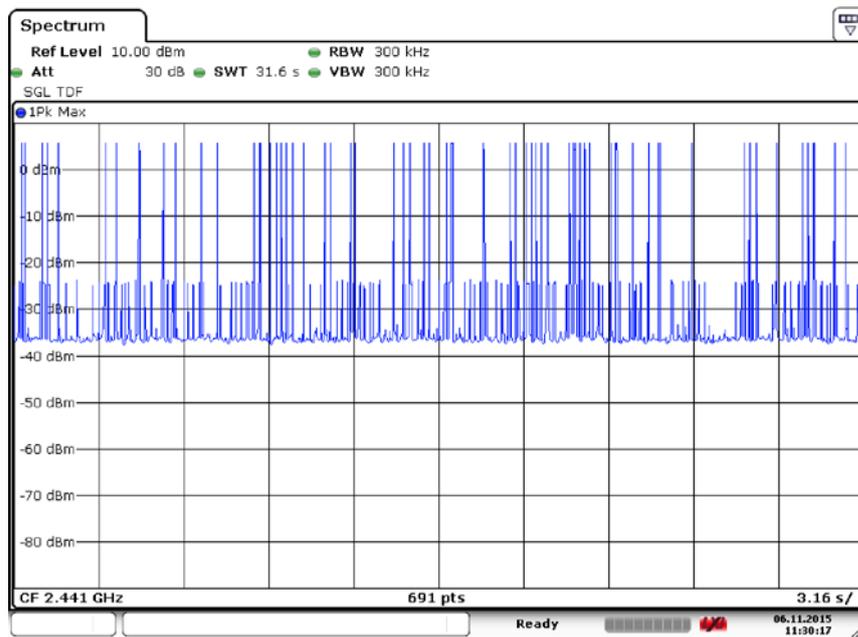
Date: 6.NOV.2015 11:29:25

**Fig. 84 Number of Transmissions ( $\pi/4$  DQPSK, Ch39)**



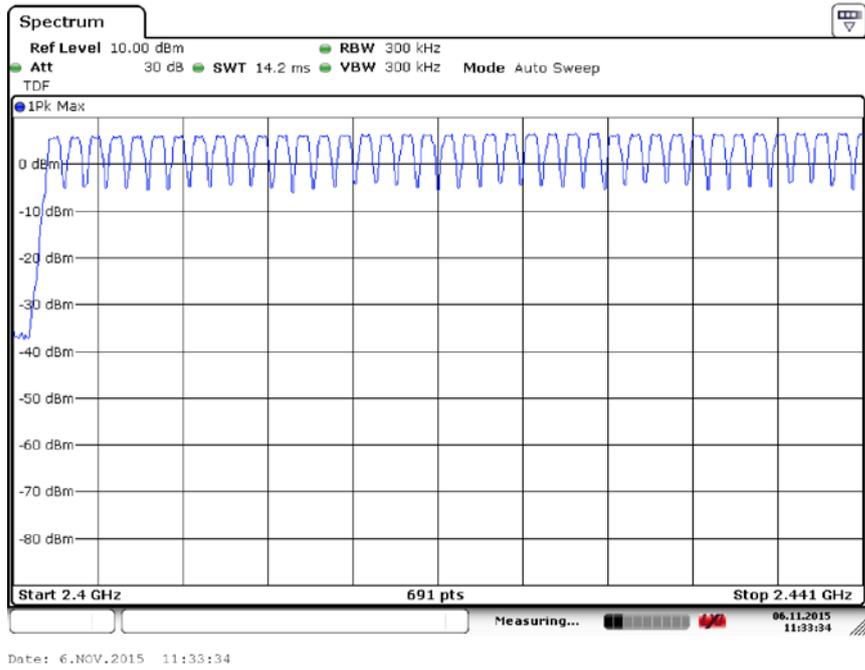
Date: 6.NOV.2015 11:31:20

**Fig. 85 Time of Occupancy(Dwell Time) (8DPSK, Ch39)**

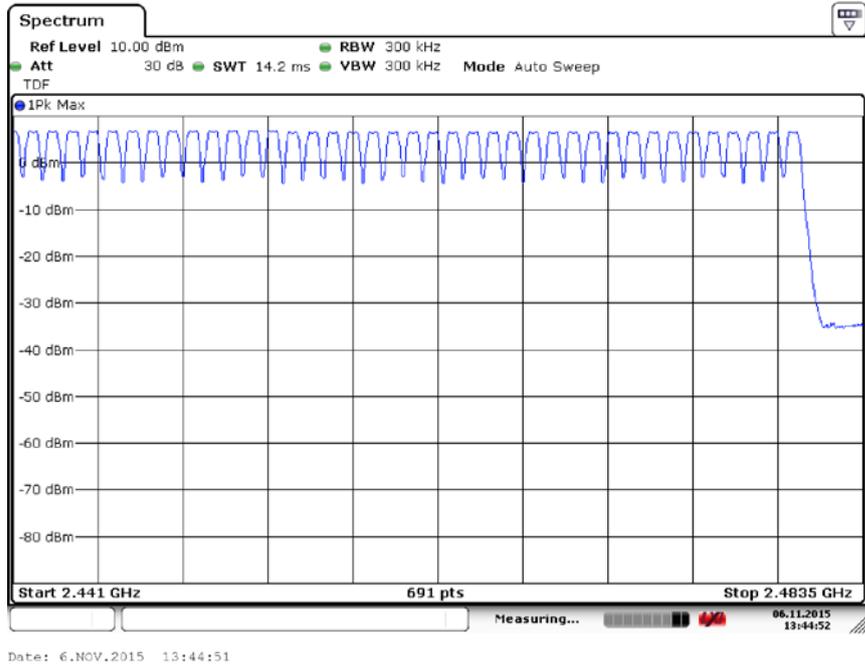


Date: 6.NOV.2015 11:30:17

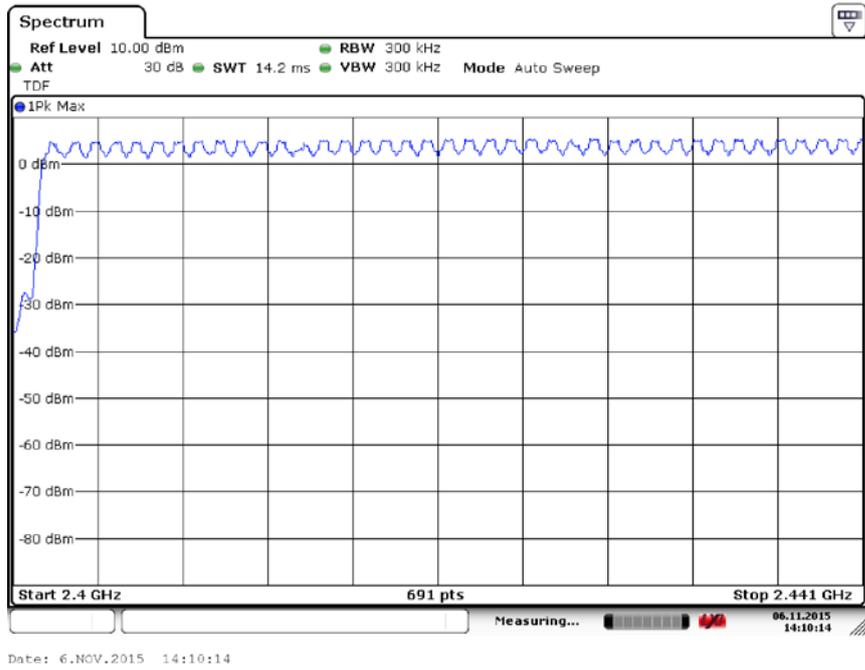
**Fig. 86 Number of Transmissions (8DPSK, Ch39)**



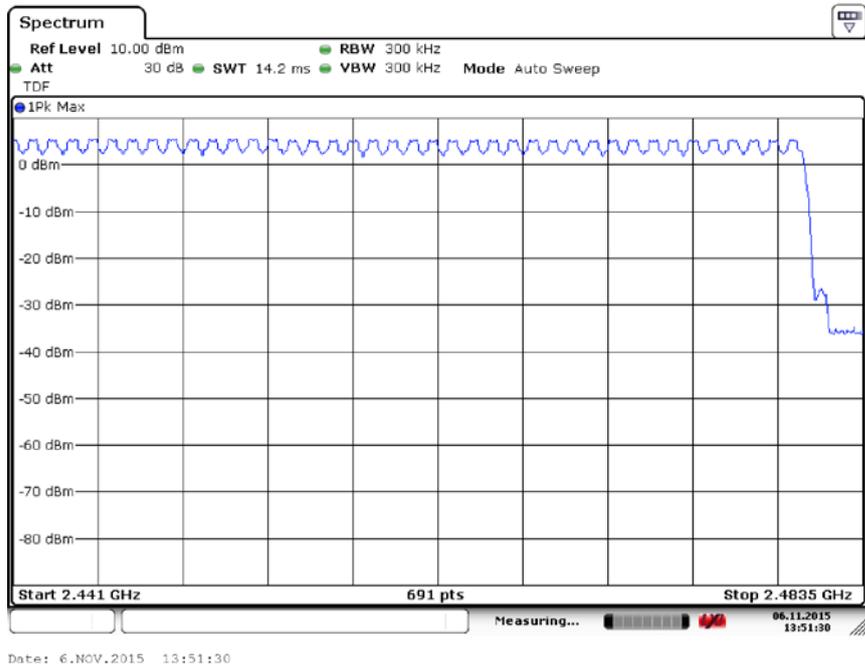
**Fig. 87 Hopping channel ch0~39 (GFSK, Ch39)**



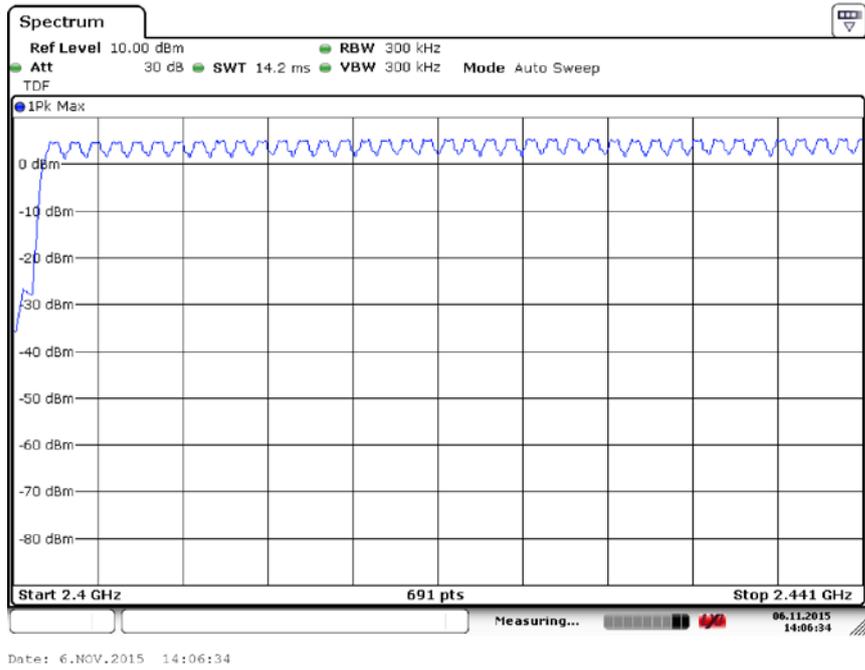
**Fig. 88 Hopping channel ch39~78 (GFSK, Ch39)**



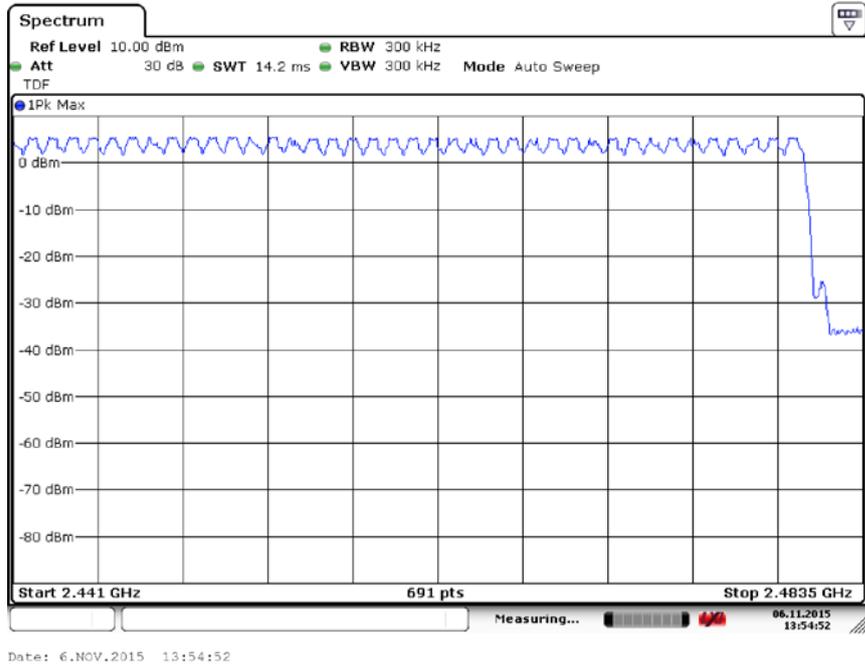
**Fig. 89 Hopping channel ch0~39 ( $\pi/4$  DQPSK, Ch39)**



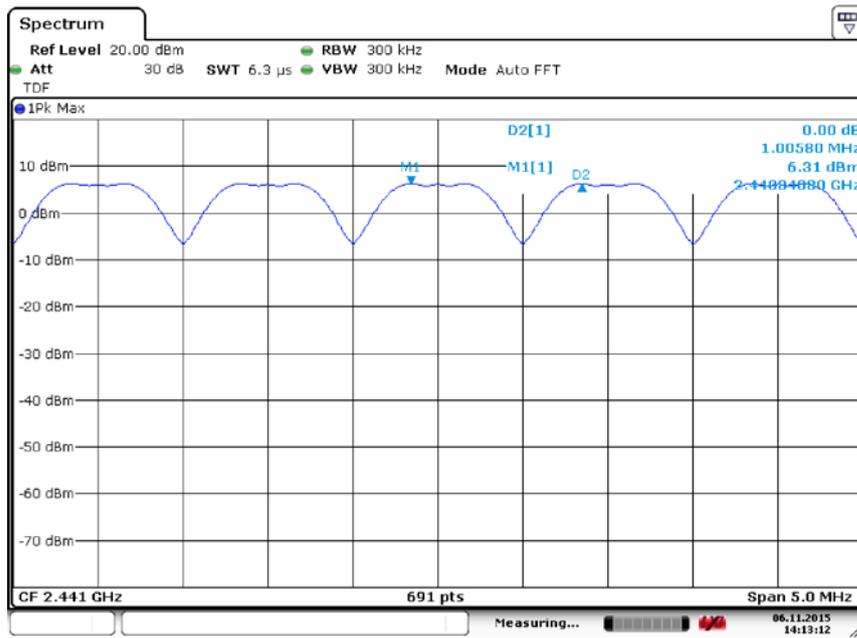
**Fig. 90 Hopping channel ch39~78 ( $\pi/4$  DQPSK, Ch39)**



**Fig. 91 Hopping channel ch0~39 (8DPSK, Ch39)**

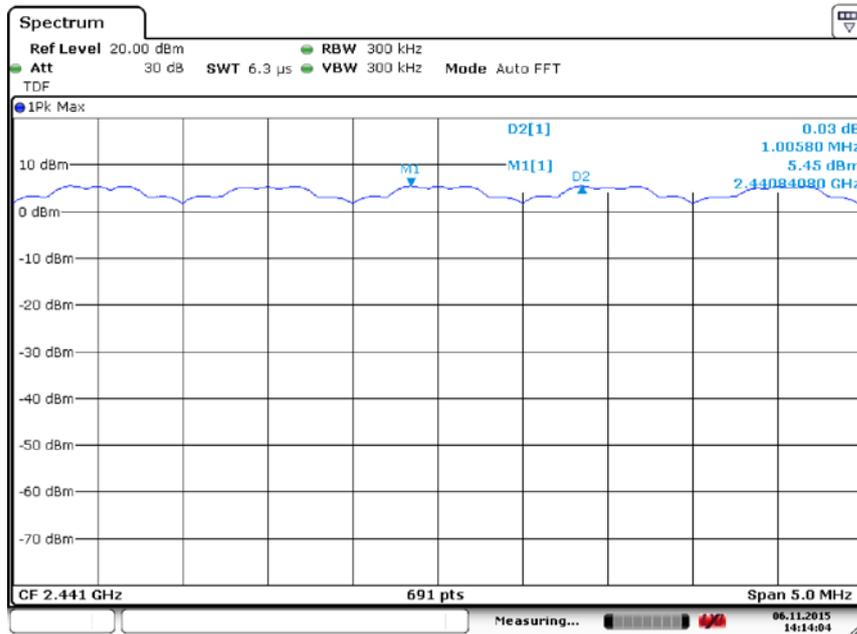


**Fig. 92 Hopping channel ch39~78 (8DPSK, Ch39)**



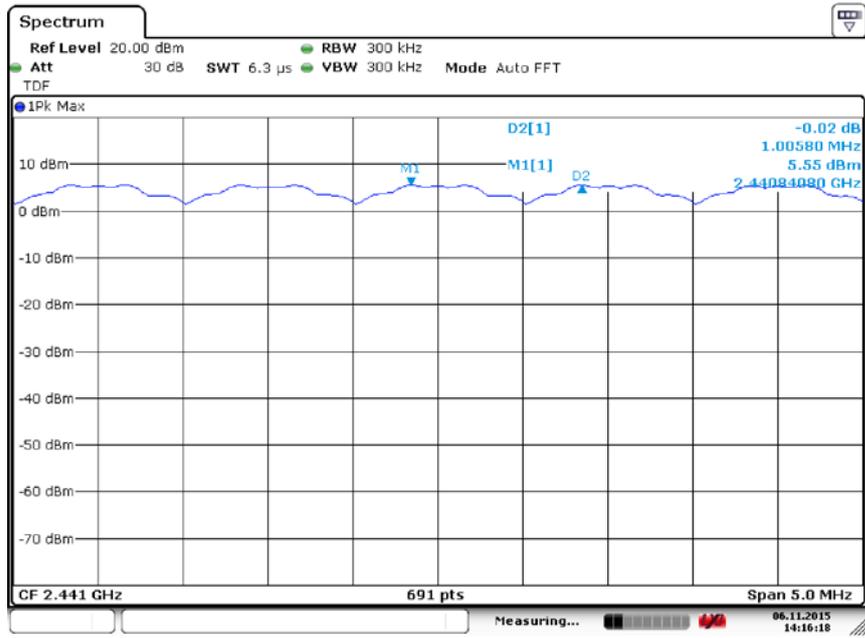
Date: 6.NOV.2015 14:13:12

**Fig. 93 Carrier Frequency Separation (GFSK, Ch39)**

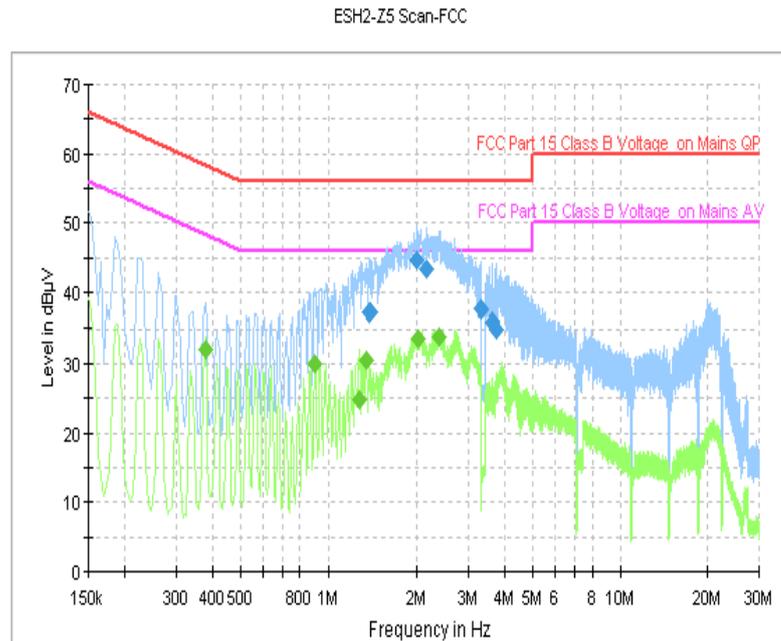


Date: 6.NOV.2015 14:14:04

**Fig. 94 Carrier Frequency Separation ( $\pi/4$  DQPSK, Ch39)**



**Fig. 95 Carrier Frequency Separation (8DPSK, Ch39)**



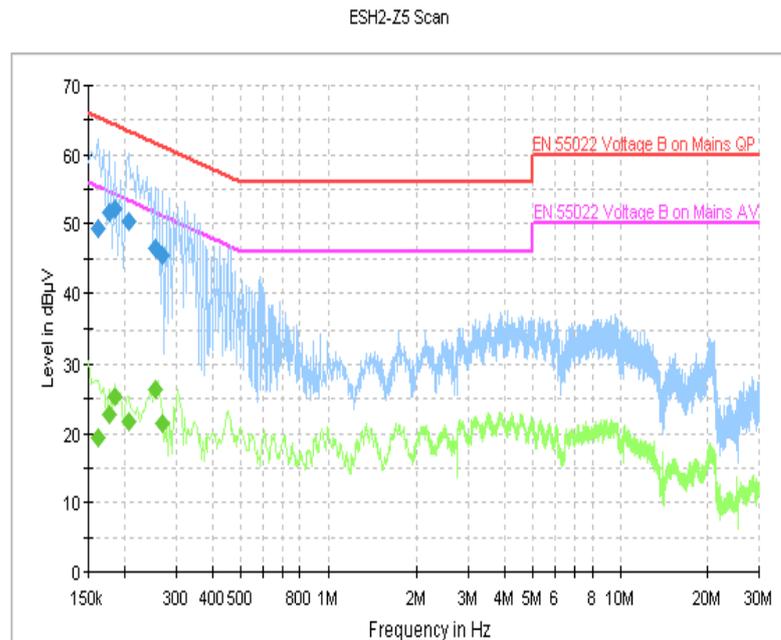
**Fig. 96 AC Power line Conducted Emission (Traffic, AE1)**

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.386000	37.1	GND	N	10.1	18.9	56.0
1.994000	44.6	GND	L1	10.1	11.4	56.0
2.158000	43.5	GND	L1	10.1	12.5	56.0
3.306000	37.7	GND	L1	10.2	18.3	56.0
3.638000	35.8	GND	N	10.2	20.2	56.0
3.758000	34.7	GND	N	10.2	21.3	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.386000	37.1	GND	N	10.1	18.9	56.0
1.994000	44.6	GND	L1	10.1	11.4	56.0
2.158000	43.5	GND	L1	10.1	12.5	56.0
3.306000	37.7	GND	L1	10.2	18.3	56.0
3.638000	35.8	GND	N	10.2	20.2	56.0
3.758000	34.7	GND	N	10.2	21.3	56.0



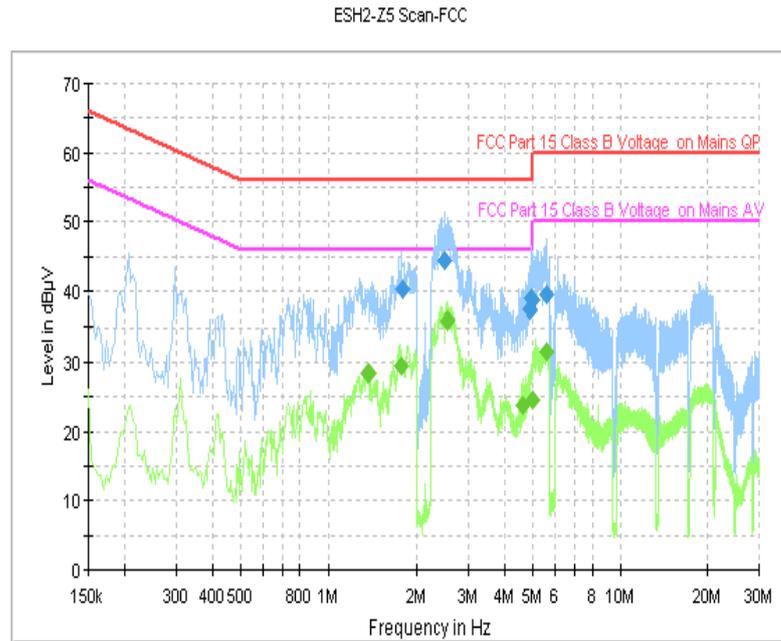
**Fig. 97 AC Power line Conducted Emission (Traffic, AE2)**

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.162000	49.3	GND	N	10.1	16.0	65.4
0.178000	51.7	GND	N	10.1	12.9	64.6
0.186000	52.3	GND	N	10.1	11.9	64.2
0.206000	50.3	GND	N	10.1	13.1	63.4
0.254000	46.4	GND	N	10.1	15.2	61.6
0.270000	45.5	GND	N	10.1	15.6	61.1

MEASUREMENT RESULT: " Average "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.162000	19.3	GND	N	10.1	36.1	55.4
0.178000	22.8	GND	N	10.1	31.8	54.6
0.186000	25.4	GND	N	10.1	28.8	54.2
0.206000	21.8	GND	N	10.1	31.5	53.4
0.254000	26.3	GND	N	10.1	25.3	51.6
0.270000	21.4	GND	N	10.1	29.7	51.1



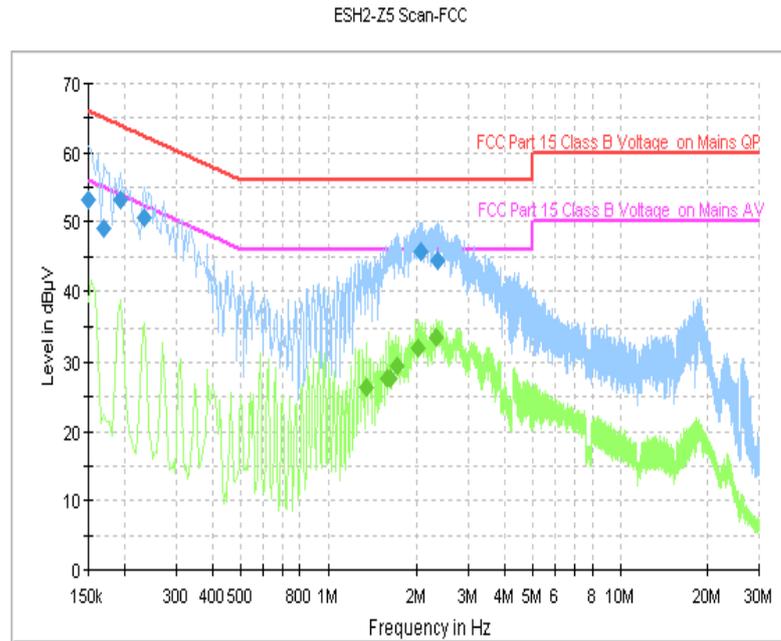
**Fig. 98 AC Power line Conducted Emission (Traffic, AE3)**

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.786000	40.3	GND	L1	10.1	15.7	56.0
2.486000	44.5	GND	L1	10.2	11.5	56.0
4.882000	37.6	GND	L1	10.2	18.4	56.0
4.926000	39.0	GND	L1	10.2	17.0	56.0
4.986000	38.8	GND	L1	10.2	17.2	56.0
5.558000	39.5	GND	L1	10.2	20.5	60.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.378000	28.4	GND	L1	10.1	17.6	46.0
1.770000	29.5	GND	L1	10.1	16.5	46.0
2.546000	35.8	GND	L1	10.2	10.2	46.0
4.630000	23.8	GND	L1	10.2	22.2	46.0
4.986000	24.5	GND	L1	10.2	21.5	46.0
5.558000	31.5	GND	L1	10.2	18.5	50.0



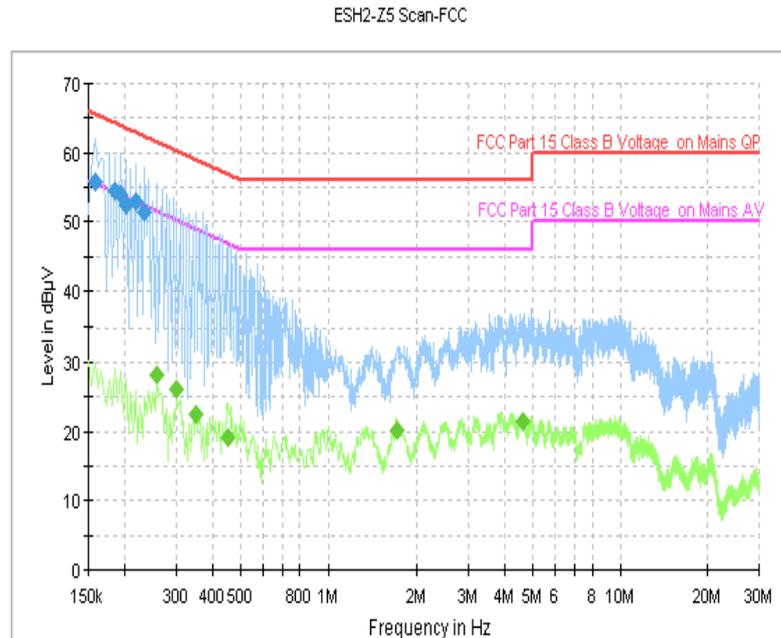
**Fig. 99 AC Power line Conducted Emission (Idle, AE1)**

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	53.1	GND	N	10.1	12.9	66.0
0.170000	49.0	GND	N	10.1	16.0	65.0
0.194000	53.2	GND	N	10.1	10.7	63.9
0.234000	50.6	GND	N	10.0	11.7	62.3
2.058000	45.7	GND	L1	10.1	10.3	56.0
2.358000	44.4	GND	L1	10.1	11.6	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.354000	26.3	GND	L1	10.1	19.7	46.0
1.586000	27.5	GND	L1	10.1	18.5	46.0
1.626000	27.6	GND	L1	10.1	18.4	46.0
1.702000	29.4	GND	L1	10.1	16.6	46.0
2.014000	32.0	GND	L1	10.1	14.0	46.0
2.326000	33.5	GND	L1	10.1	12.5	46.0



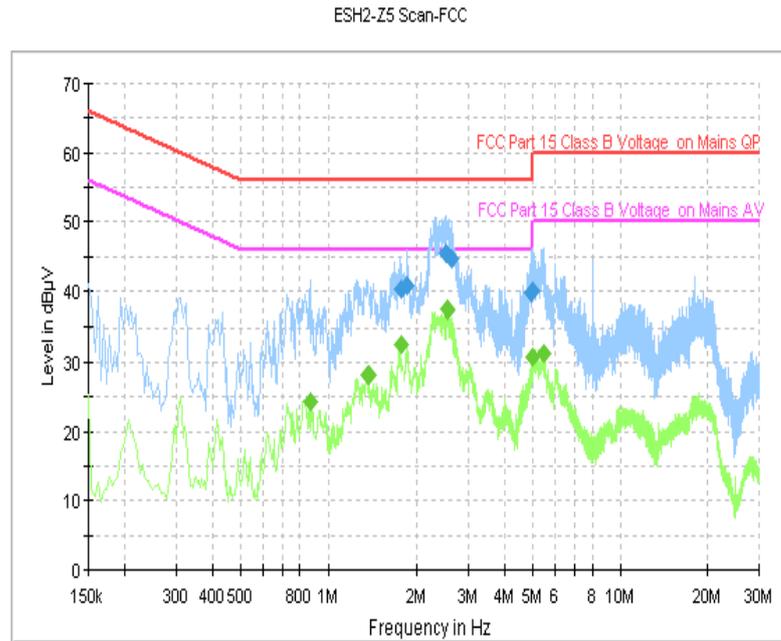
**Fig. 100 AC Power line Conducted Emission (Idle, AE2)**

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	55.7	GND	L1	10.0	9.9	65.6
0.186000	54.5	GND	L1	10.0	9.7	64.2
0.194000	53.9	GND	L1	10.0	10.0	63.9
0.202000	52.5	GND	L1	10.0	11.1	63.5
0.218000	52.9	GND	L1	10.0	10.0	62.9
0.234000	51.3	GND	L1	10.0	11.0	62.3

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.258000	28.0	GND	L1	10.0	23.5	51.5
0.302000	26.0	GND	L1	10.0	24.1	50.2
0.350000	22.5	GND	L1	10.0	26.5	49.0
0.454000	19.2	GND	L1	10.0	27.6	46.8
1.710000	20.1	GND	N	10.1	25.9	46.0
4.610000	21.3	GND	L1	10.2	24.7	46.0



**Fig. 101 AC Power line Conducted Emission (Idle, AE3)**

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.766000	40.4	GND	L1	10.1	15.6	56.0
1.850000	40.8	GND	L1	10.1	15.2	56.0
2.514000	45.4	GND	L1	10.2	10.6	56.0
2.618000	44.6	GND	L1	10.2	11.4	56.0
4.970000	39.9	GND	L1	10.2	16.1	56.0
4.998000	40.0	GND	L1	10.2	16.0	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.866000	24.3	GND	L1	10.1	21.7	46.0
1.366000	28.3	GND	L1	10.1	17.7	46.0
1.762000	32.5	GND	L1	10.1	13.5	46.0
2.538000	37.4	GND	L1	10.2	8.6	46.0
4.998000	30.7	GND	L1	10.2	15.3	46.0
5.438000	31.3	GND	L1	10.2	18.7	50.0

**ANNEX C: Persons involved in this testing**

Test Name	Tester
Maximum Peak Output Power	Xu Ye, Tang Weisheng
Peak Power Spectral Density	Xu Ye, Tang Weisheng
Occupied 6dB Bandwidth	Xu Ye, Tang Weisheng
Band Edges Compliance	Xu Ye, Tang Weisheng
Transmitter Spurious Emission - Conducted	Xu Ye, Tang Weisheng
Transmitter Spurious Emission - Radiated	Xu Ye, Tang Weisheng
AC Powerline Conducted Emission	Xu Ye, Tang Weisheng

**\*\*\*END OF REPORT\*\*\***