



FCC PART 15C TEST REPORT

No. 2012EEB00057-BT

For

GSM/WCDMA Mobile Phone

Model Name: V32-3G

With

Hardware Version: G362-MB-V0.2

Software Version: V4.5

FCC ID: ZVP-V32-3G

IC ID: 10262A-V32-3G

Issued Date: Mar 23th, 2012

Test Laboratory:

FCC 2.948 Listed: No.733176

IC O.A.T.S listed: No.6629A-1

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 TMC Beijing.

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1. Test Laboratory

1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT
Address: No 52 Hua Yuanbei Road, Haidian District, Beijing, P.R.China
Postal Code: 100191
Telephone: 00861062304633
Fax: 00861062304793

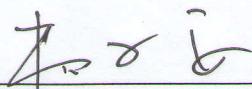
1.2. Testing Environment

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

1.3. Project data

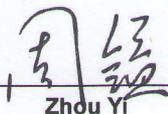
Project Leader: Zhou Yi
Test Engineer: Yang Zi'an
Testing Start Date: 2012-2-27
Testing End Date: 2012-3-23

1.4. Signature



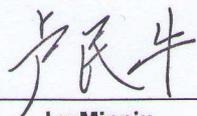
Yang Zi'an

(Prepared this test report)



Zhou Yi

(Reviewed this test report)



Lu Minniu

Deputy Director of the laboratory

(Approved this test report)

2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

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City: Ridgewood
Postal Code: 07450
Country: United States
Contact Clayton Wu
Email clayton.wu@emporia.at
Telephone: 13480677599
Fax: 0755-23910530

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

3.1. About EUT

| | | | |
|------------------------------|---|------------------|--|
| Description | GSM/WCDMA Mobile phone | | |
| Model Name | V32-3G | | |
| Marketing Name | V32-3G | | |
| Frequency Band | ISM 2400MHz~2480MHz | | |
| Transmitter Frequency range: | GSM850: 824.2-848.8 MHz, PCS1900: 1850.2-1909.8MHz WCDMA Band II: 1852.4-1907.6MHz, WCDMA Band V: 826.4-846.6MHz | | |
| Receiver Frequency Range: | GSM850: | 869.2-893.8 MHz, | PCS1900: 1930.2-1989.8MHz WCDMA Band II: 1932.4-1987.6MHz, WCDMA Band V: 871.4-891.6MHz |
| Type of Modulation | GFSK/ $\pi/4$ DQPSK/8DPSK | | |
| Number of Channels | 79 | | |
| Extreme Temperature | -20/+55°C | | |
| Normal Voltage | 3.7V | | |
| Extreme Low Voltage | 3.6V | | |
| Extreme High Voltage | 4.2V | | |

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

Note: high and low voltage values in extreme condition test are given by manufacturer

3.2. Internal Identification of EUT used during the test

| EUT ID* | SN or IMEI | HW Version | SW Version |
|----------------|-------------------|-------------------|-------------------|
| N01 | 353801003601740 | G362-MB-V0.2 | V4.5 |

*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 | Type | SN |
|---------------|--------------------|-------------|-----------|
| AE1 | Charger | RL-V170-US | / |
| AE2 | Li-ion Battery | Li-ion | / |

*AE ID: is used to identify the test accessory 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.

| Reference | Title | Version |
|------------|---|----------------------|
| 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, 2009 Edition |
| ANSI C63.4 | Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | 2003 |
| KDB558074 | Measurement of Digital Transmission Systems Operating under Section 15.247 | March 23, 2005 |
| IC RSS-210 | RSS-210 Spectrum Management and Telecommunications Radio Standards Specification - Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment | Issue 8 Dec 2010 |

5. LABORATORY ENVIRONMENT

Semi-anechoic chamber (11.20 meters×6.10meters×5.60meters) did not exceed following limits along the EMC testing:

| | |
|-----------------------------------|--|
| Temperature | Min. = 15 °C, Max. = 30 °C |
| Relative humidity | Min. = 35 %, Max. = 70 % |
| Shielding effectiveness | > 100 dB |
| Electrical insulation | > 2MΩ |
| Ground system resistance | < 1 Ω |
| Normalised site attenuation (NSA) | < ±3.5 dB, 3 m distance, from 30 to 1000 MHz |
| Uniformity of field strength | Between 0 and 6 dB, from 80 to 3000 MHz |

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

| | |
|--------------------------|----------------------------|
| Temperature | Min. = 15 °C, Max. = 30 °C |
| Relative humidity | Min. =35 %, Max. = 80 % |
| Shielding effectiveness | > 100 dB |
| Electrical insulation | > 2MΩ |
| Ground system resistance | < 1 Ω |

Conducted chamber did not exceed following limits along the EMC testing:

| | |
|--------------------------|----------------------------|
| Temperature | Min. = 15 °C, Max. = 30 °C |
| Relative humidity | Min. =35 %, Max. = 80 % |
| Shielding effectiveness | > 100 dB |
| Electrical insulation | > 2MΩ |
| Ground system resistance | < 1 Ω |

Fully-anechoic chamber (11.20 meters×6.10 meters×6.60 meters) did not exceed following limits along the EMC testing:

| | |
|------------------------------------|---------------------------------------|
| Temperature | Min. = 15 °C, Max. = 30 °C |
| Relative humidity | Min. = 35 %, Max. = 70 % |
| Shielding effectiveness | > 100 dB |
| Electrical insulation | > 2MΩ |
| Ground system resistance | < 1 Ω |
| Voltage Standing Wave Ratio (VSWR) | ≤ 6 dB, from 1 to 6 GHz, 3 m distance |

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

| No | Test cases | Sub-clause of Part15C | Sub-clause of IC | Verdict |
|----|---------------------------------|-----------------------|-------------------------|---------|
| 1 | Maximum Peak Output Power | 15.247 (a) | RSS-210 Issue8 A8.4 | P |
| 2 | Band Edges Compliance | 15.247 (d) | RSS-210 Issue8 A8.5 | P |
| 3 | Conducted Spurious Emission | 15.247 | RSS-210 Issue8 A8.5 | P |
| 4 | Radiated Spurious Emission | 15.247,15.205,15.209 | RSS-210 Issue8 A8.5 | P |
| 5 | Occupied 20dB bandwidth | 15.247(a) | RSS-210 Issue8 A8.1 | P |
| 6 | Time of Occupancy(Dwell Time) | 15.247(a) | RSS-210 Issue8 A8.1 | P |
| 7 | Number of Hopping Channel | 15.247(a) | RSS-210 Issue8 A8.1 | P |
| 8 | Carrier Frequency Separation | 15.247(a) | RSS-210 Issue8 A8.1 | P |
| 9 | AC Powerline Conducted Emission | 15.107,15.207 | RSS-Gen Issue3 7.2.4 | P |
| 10 | Occupied bandwidth | / | RSS-Gen Issue3 4.6.1 | / |

6.2. Statements

TMC has evaluated the test cases requested by the applicant/manufacture as listed in section 6.1 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2

6.3. Terms used in the result table

Terms used in Condition column

| | |
|-------|--------------------|
| T nom | Normal Temperature |
| T min | Low Temperature |
| T max | High Temperature |
| V nom | Normal Voltage |
| V min | Low Voltage |
| V max | High voltage |

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 |

7. Test Equipments Utilized

Conducted test system

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration Due date |
|-----|------------------------|-------|---------------|-----------------|----------------------|
| 1 | Vector Signal Analyzer | FSV | 100903 | Rohde & Schwarz | 2013-01-26 |
| 2 | Bluetooth Tester | CBT32 | 100584 | Rohde & Schwarz | 2013-01-12 |

Climate chamber

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration Due date |
|-----|-----------------|-----------|---------------|--------------|----------------------|
| 1 | Climate chamber | FACT5-2.0 | 4166 | ETS-Lindgren | 2012-04-17 |

Radiated emission test system

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration Due date |
|-----|--------------------------------------|----------|---------------|-----------------|----------------------|
| 1 | Test Receiver | ESCI | 100701 | Rohde & Schwarz | 2012-08-04 |
| 2 | BiLog Antenna | VULB9163 | 9163-330 | Schwarzbeck | 2014-02-24 |
| 3 | Dual-Ridge Waveguide Horn Antenna | 3164-05 | 00085724 | ETS-Lindgren | 2014-02-17 |
| 4 | Universal Radio Communication Tester | CMU200 | 114545 | Rohde & Schwarz | 2012-03-24 |

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren.

ANNEX A: EUT photograph



Pic A-1 Mobile phone



Pic A-2 Mobile phone



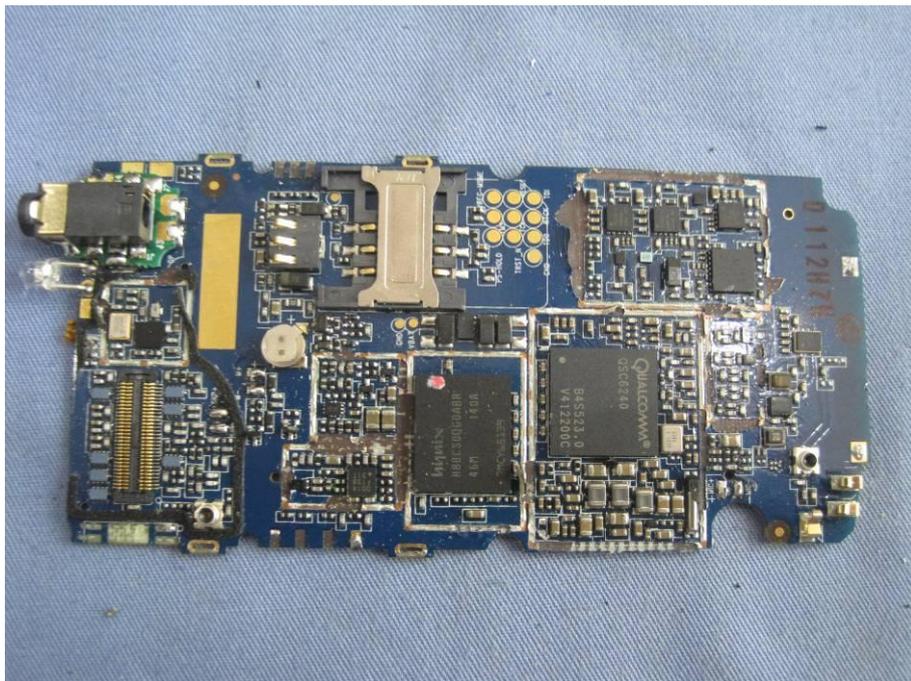
Pic A-3 Battery AE1



Pic A-4 Mobile phone Disassembly



Pic A-5 Mobile phone Disassembly



Pic A-6 Mobile phone Disassembly

ANNEX B: MEASUREMENT RESULTS

B.1 Maximum Peak Output Power

Measurement Limit and Method:

| Standard | Limit (dBm) |
|---|-------------|
| FCC CRF Part 15.247(b) RSS-210 Issue8 A8.4 | < 30 |

The measurement is made according to ANSI C63.4 and KDB558074, and power output option 1 (RBW=20MHz) in KDB558074 is used for the test. EUT is operating in continuous transmitting mode

Measurement Uncertainty:

| | |
|-------------------------|--------|
| Measurement Uncertainty | 0.75dB |
|-------------------------|--------|

Measurement Results:

| Mode | Test Result (dBm) | | |
|----------------|-------------------|-------------------|--------------------|
| | 2402MHz (Ch0) | 2441MHz (Ch39) | 2480 MHz (Ch78) |
| GFSK | 1.16 | 3.18 | 3.17 |
| π /4 DQPSK | 3.38 | 5.37 | 5.48 |
| 8DPSK | 3.24 | 5.17 | 5.26 |

Conclusion: PASS

B.2 Band Edges Compliance

Measurement Limit:

| Standard | Limit (dBc) |
|---|-------------|
| FCC 47 CFR Part 15.247 (d) RSS-210 Issue8 A8.5 | > 20 |

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

| | |
|-------------------------|--------|
| Measurement Uncertainty | 0.75dB |
|-------------------------|--------|

Measurement Result:

| Mode | Channel | Hopping | Test Results | Conclusion |
|----------------|---------|---------|--------------|------------|
| GFSK | 0 | ON | Fig.1 | P |
| | 78 | ON | Fig.2 | P |
| π /4 DQPSK | 0 | ON | Fig.3 | P |
| | 78 | ON | Fig.4 | P |
| 8DPSK | 0 | ON | Fig.5 | P |

| | | | | |
|--|----|----|-------|---|
| | 78 | ON | Fig.6 | P |
|--|----|----|-------|---|

See ANNEX C for test graphs.

Conclusion: Pass

B.3 Conducted Emission

Measurement Limit:

| Standard | Limit |
|---|---|
| FCC 47 CFR Part 15.247 (d) RSS-210 Issue8 A8.5 | 20dB below peak output power in 100 kHz bandwidth |

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

| Frequency Range | Uncertainty |
|-------------------|-------------|
| 30MHz ≤ f ≤ 2GHz | 0.63 |
| 2GHz ≤ f ≤ 3.6GHz | 0.82 |
| 3.6GHz ≤ f ≤ 8GHz | 1.55 |
| 8GHz ≤ f ≤ 20GHz | 1.86 |
| 20GHz ≤ f ≤ 22GHz | 1.90 |
| 22GHz ≤ f ≤ 26GHz | 2.20 |

Measurement Results:

| MODE | Channel | Frequency Range | Test Results | Conclusion |
|------------------|---------|-----------------|--------------|------------|
| GFSK | 0 | 2.402 GHz | Fig.7 | P |
| | | 30 MHz-3 GHz | Fig.8 | P |
| | | 3GHz-12Ghz | Fig.9 | P |
| | 78 | 2.480 GHz | Fig.10 | P |
| | | 30 MHz-3 GHz | Fig.11 | P |
| | | 3GHz-12Ghz | Fig.12 | P |
| $\pi/4$ DQPSK | 0 | 2.402 GHz | Fig.13 | P |
| | | 30 MHz-3 GHz | Fig.14 | P |
| | | 3GHz-12Ghz | Fig.15 | P |
| | 78 | 2.480 GHz | Fig.16 | P |
| | | 30 MHz-3 GHz | Fig.17 | P |
| | | 3GHz-12Ghz | Fig.18 | P |
| 8DPSK | 0 | 2.402 GHz | Fig.19 | P |
| | | 30 MHz-3 GHz | Fig.20 | P |
| | | 3GHz-12Ghz | Fig.21 | P |
| | 78 | 2.480 GHz | Fig.22 | P |
| | | 30 MHz-3 GHz | Fig.23 | P |

| | | | | |
|---|-------------|-------------|--------|---|
| | | 3GHz-12GHz | Fig.24 | P |
| / | All channel | 12GHz-26GHz | Fig.25 | P |

See ANNEX C for test graphs.

Conclusion: Pass

B.4 Radiated Emission

Measurement Limit:

| Standard | Limit |
|---|------------------------------|
| FCC 47 CFR Part 15.247, 15.205, 15.209 RSS-210 Issue8 A8.5 | 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)).

The measurement is made according to ANSI C63.4 and KDB558074.

Limit in restricted band:

| Frequency of emission (MHz) | Field strength(uV/m) | Field strength(dBuV/m) |
|-----------------------------|----------------------|------------------------|
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

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 | 100KHz/300KHz | 5 |
| 1000-4000 | 1MHz/1MHz | 15 |
| 4000-18000 | 1MHz/1MHz | 40 |
| 18000-26500 | 1MHz/1MHz | 20 |

Measurement Results:

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|------|---------|-----------------|--------------|------------|
| GFSK | 0 | 30 MHz ~1 GHz | Fig.26 | P |
| | | 1 GHz ~ 3 GHz | Fig.27 | P |
| | | 3 GHz ~ 18 GHz | Fig.28 | P |
| | 78 | 30 MHz ~1 GHz | Fig.29 | P |
| | | 1 GHz ~ 3 GHz | Fig.30 | P |

| | | | | |
|----------------|--------------|------------------|--------|---|
| | | 3 GHz ~ 18 GHz | Fig.31 | P |
| π /4 DQPSK | 0 | 30 MHz ~1 GHz | Fig.32 | P |
| | | 1 GHz ~ 3 GHz | Fig.33 | P |
| | | 3 GHz ~ 18 GHz | Fig.34 | P |
| | 78 | 30 MHz ~1 GHz | Fig.35 | P |
| | | 1 GHz ~ 3 GHz | Fig.36 | P |
| | | 3 GHz ~ 18 GHz | Fig.37 | P |
| 8DPSK | 0 | 30 MHz ~1 GHz | Fig.38 | P |
| | | 1 GHz ~ 3 GHz | Fig.39 | P |
| | | 3 GHz ~ 18 GHz | Fig.40 | P |
| | 78 | 30 MHz ~1 GHz | Fig.41 | P |
| | | 1 GHz ~ 3 GHz | Fig.42 | P |
| | | 3 GHz ~ 18 GHz | Fig.43 | P |
| / | All channels | 18 GHz~ 26.5 GHz | Fig.44 | P |

See ANNEX C for test graphs.

Conclusion: Pass

B.5 Occupied 20dB Bandwidth

Measurement Limit:

| Standard | Limit (kHz) |
|---|-------------|
| FCC 47 CFR Part 15.247 (a) RSS-210 Issue8 A8.1 | / |

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

| | |
|-------------------------|---------|
| Measurement Uncertainty | 60.80Hz |
|-------------------------|---------|

Measurement Result:

| Mode | Channel | Occupied 20dB Bandwidth (MHz) | | conclusion |
|----------------|---------|--------------------------------|-------|------------|
| GFSK | 39 | Fig.45 | 1.158 | / |
| π /4 DQPSK | 39 | Fig.46 | 1.331 | / |
| 8DPSK | 39 | Fig.47 | 1.360 | / |

See ANNEX C for test graphs.

Conclusion: Pass

B.6 Time of Occupancy (Dwell Time)

Measurement Limit:

| Standard | Limit |
|--|----------|
| FCC 47 CFR Part 15.247(a) RSS-210 Issue8 A8.1 | < 400 ms |

Measurement Uncertainty:

| | |
|-------------------------|----------|
| Measurement Uncertainty | ±0.088ms |
|-------------------------|----------|

Measurement Results:

| Mode | Channel | Packet | Dwell Time(ms) | | Conclusion |
|---------------|---------|--------|----------------|-------|------------|
| GFSK | 39 | DH5 | Fig.48 | 162.8 | P |
| | | | Fig.49 | | |
| $\pi/4$ DQPSK | 39 | 2-DH5 | Fig.50 | 144.7 | P |
| | | | Fig.51 | | |
| 8DPSK | 39 | 3-DH5 | Fig.52 | 271.3 | P |
| | | | Fig.53 | | |

See ANNEX C for test graphs.

Conclusion: Pass

B.7 Number of Hopping Channels

Measurement Limit:

| Standard | Limit |
|--|--------------------------------------|
| FCC 47 CFR Part 15.247(a) RSS-210 Issue8 A8.1 | At least 15 non-overlapping channels |

Measurement Results:

| Mode | Channel | Packet | Number of hopping channels | | Test result | Conclusion |
|---------------|---------|--------|----------------------------|--------|-------------|------------|
| GFSK | 39 | DH5 | Fig.54 | Fig.55 | 79 | P |
| $\pi/4$ DQPSK | 39 | 2-DH5 | Fig.56 | Fig.57 | 79 | P |
| 8DPSK | 39 | 3-DH5 | Fig.58 | Fig.59 | 79 | P |

See ANNEX C for test graphs.

Conclusion: Pass

B.8 Carrier Frequency Separation

Measurement Limit:

| Standard | Limit |
|--|--|
| FCC 47 CFR Part 15.247(a) RSS-210 Issue8 A8.1 | Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. |

Measurement Results:

| Mode | Channe | Packet | Separation of hopping | Test | Conclusion |
|---------------|--------|--------|-----------------------|---------|------------|
| GFSK | 39 | DH5 | Fig.60 | 1005.80 | P |
| $\pi/4$ DQPSK | 39 | 2-DH5 | Fig.61 | 1020.30 | P |
| 8DPSK | 39 | 3-DH5 | Fig.62 | 1020.30 | P |

See ANNEX C for test graphs.

Conclusion: Pass

B.9 AC Power line Conducted Emission

Test Condition:

| Voltage (V) | Frequency (Hz) |
|-------------|----------------|
| 120 | 60 |

Measurement Result and limit:

BT (Quasi-peak Limit)

| Frequency range (MHz) | Quasi-peak Limit (dB μ V) | Result (dB μ V) | | | Conclusion |
|-----------------------|-------------------------------|---------------------|---------------|--------|------------|
| | | With charger | | | |
| | | GFSK | $\pi/4$ DQPSK | 8DPSK | |
| 0.15 to 0.5 | 66 o 56 | Fig.63 | Fig.64 | Fig.65 | 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)

| Frequency range (MHz) | Average Limit (dB μ V) | Result (dB μ V) | | | Conclusion |
|-----------------------|----------------------------|---------------------|---------------|--------|------------|
| | | With charger | | | |
| | | GFSK | $\pi/4$ DQPSK | 8DPSK | |
| 0.15 to 0.5 | 56 to 46 | Fig.63 | Fig.64 | Fig.65 | 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.

The measurement is made according to ANSI C63.4 and KDB558074

See ANNEX C for test graphs.

Conclusion: Pass

B.10 Occupied Bandwidth

Measurement Limit:

| Standard | Limit |
|----------------------|-------|
| RSS-Gen Issue3 4.6.1 | / |

The measurement is made according to ANSI C63.4 and KDB558074

Measurement Uncertainty:

| | |
|-------------------------|---------|
| Measurement Uncertainty | 60.80Hz |
|-------------------------|---------|

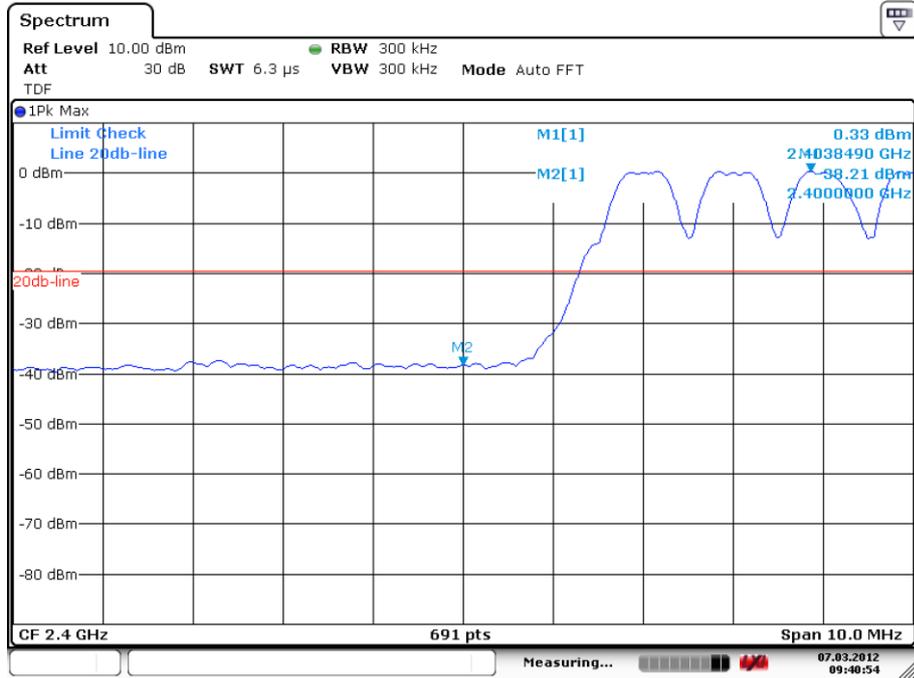
Measurement Result:

| Mode | Channel | Occupied Bandwidth (MHz) | | conclusion |
|----------------|---------|---------------------------|-------|------------|
| GFSK | 0 | Fig.66 | 0.955 | / |
| | 39 | Fig.67 | 1.041 | / |
| | 78 | Fig.68 | 1.056 | / |
| π /4 DQPSK | 0 | Fig.69 | 1.143 | / |
| | 39 | Fig.70 | 1.201 | / |
| | 78 | Fig.71 | 1.201 | / |
| 8DPSK | 0 | Fig.72 | 1.157 | / |
| | 39 | Fig.73 | 1.215 | / |
| | 78 | Fig.74 | 1.230 | / |

Conclusion: PASS

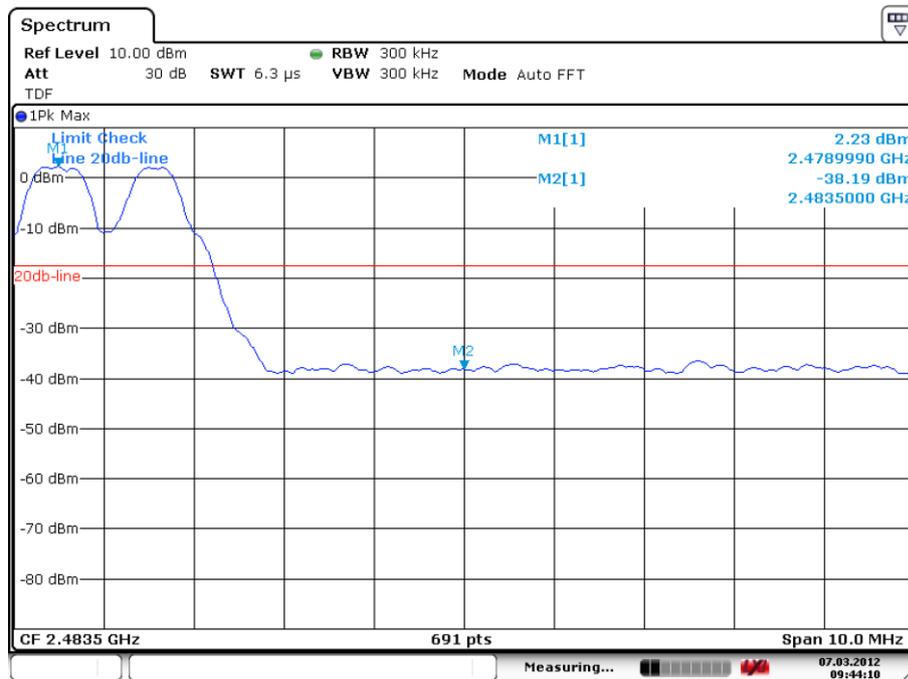
Test graphs as below:

ANNEX C: TEST FIGURE LIST



Date: 7.MAR.2012 09:40:54

Fig. 1 Band Edges (GFSK, Ch 0, Hopping ON)



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Fig. 2 Band Edges (GFSK, Ch 78, Hopping ON)

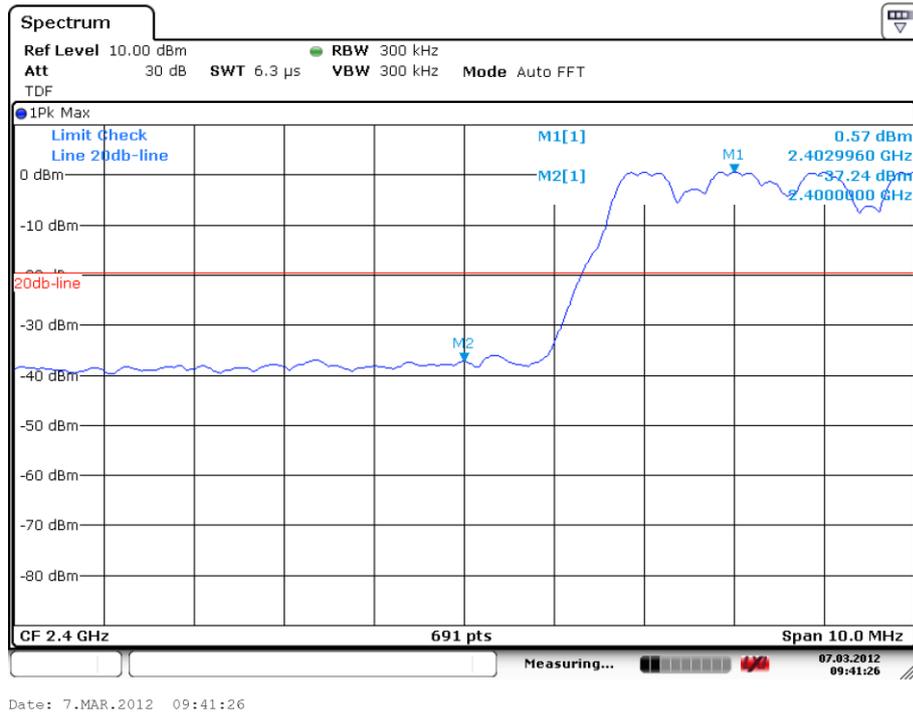


Fig. 3 Band Edges ($\pi/4$ DQPSK, Ch 0, Hopping ON)

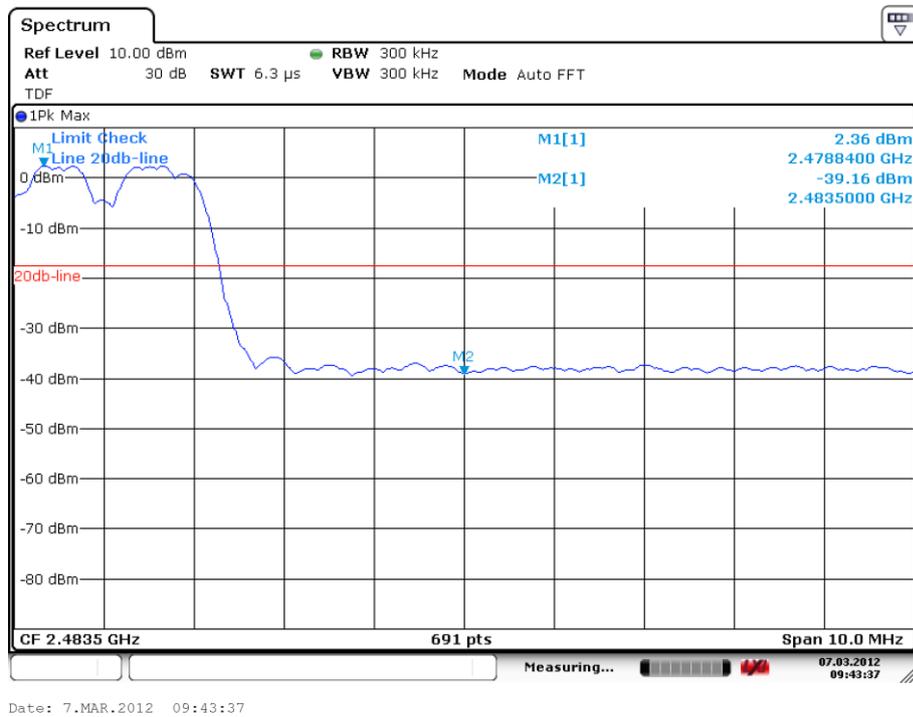


Fig. 4 Band Edges ($\pi/4$ DQPSK, Ch 78, Hopping ON)

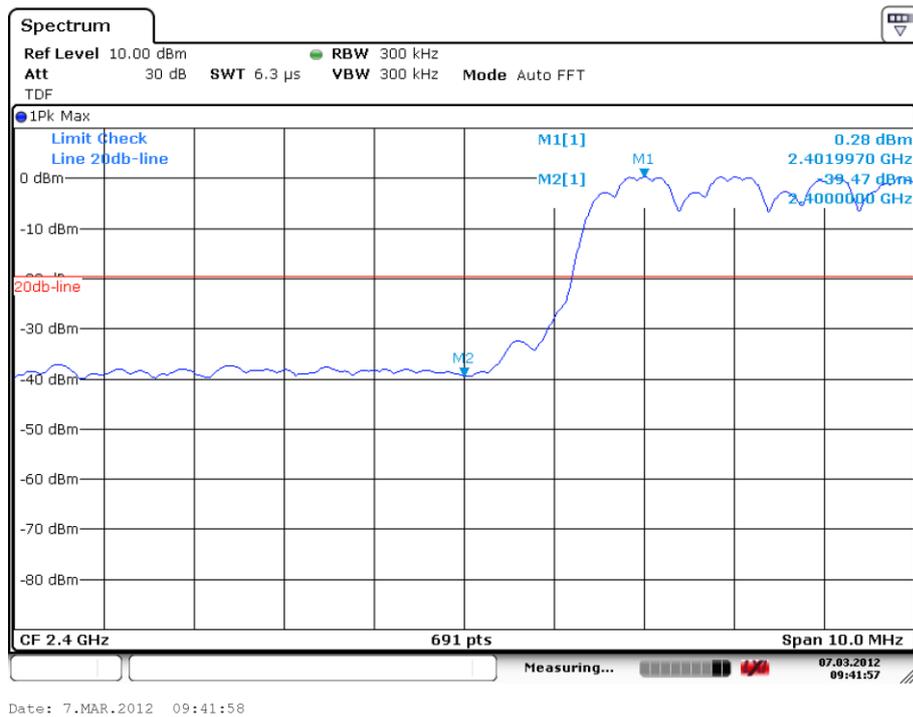


Fig. 5 Band Edges (8DPSK, Ch 0, Hopping ON)

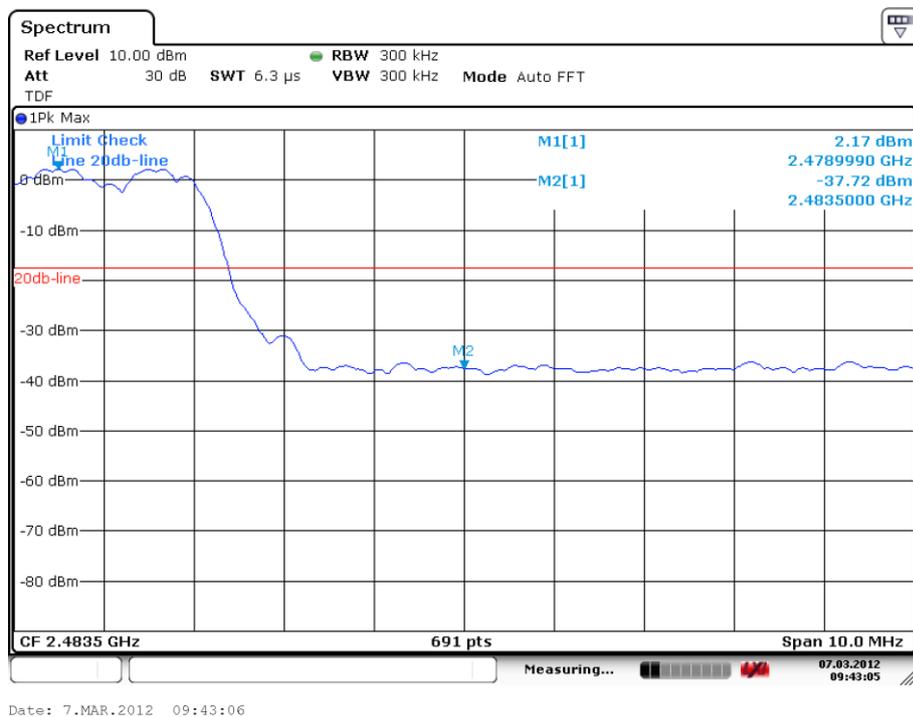
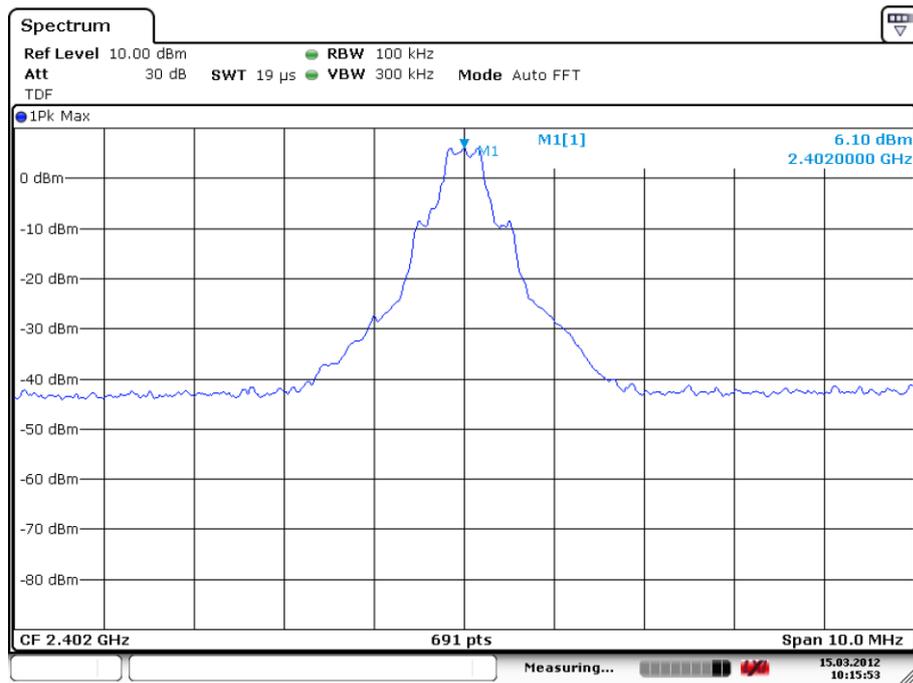
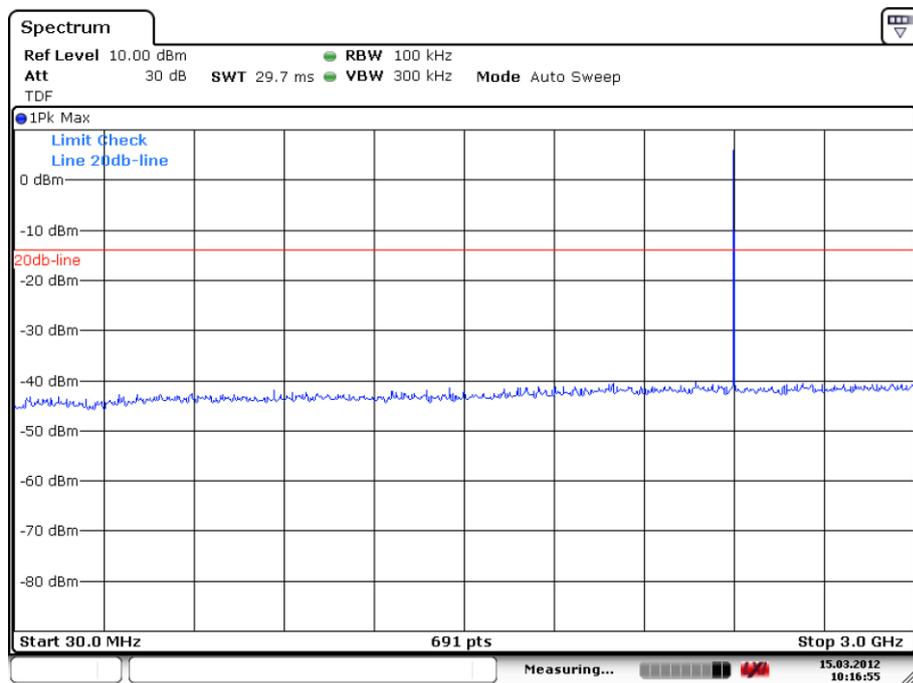


Fig. 6 Band Edges (8DPSK, Ch 78, Hopping ON)



Date: 15.MAR.2012 10:15:54

Fig. 7 Conducted Spurious Emission (GFSK, Ch0, 2.402GHz)



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Fig. 8 Conducted Spurious Emission (GFSK, Ch0, 30 MHz-3 GHz)

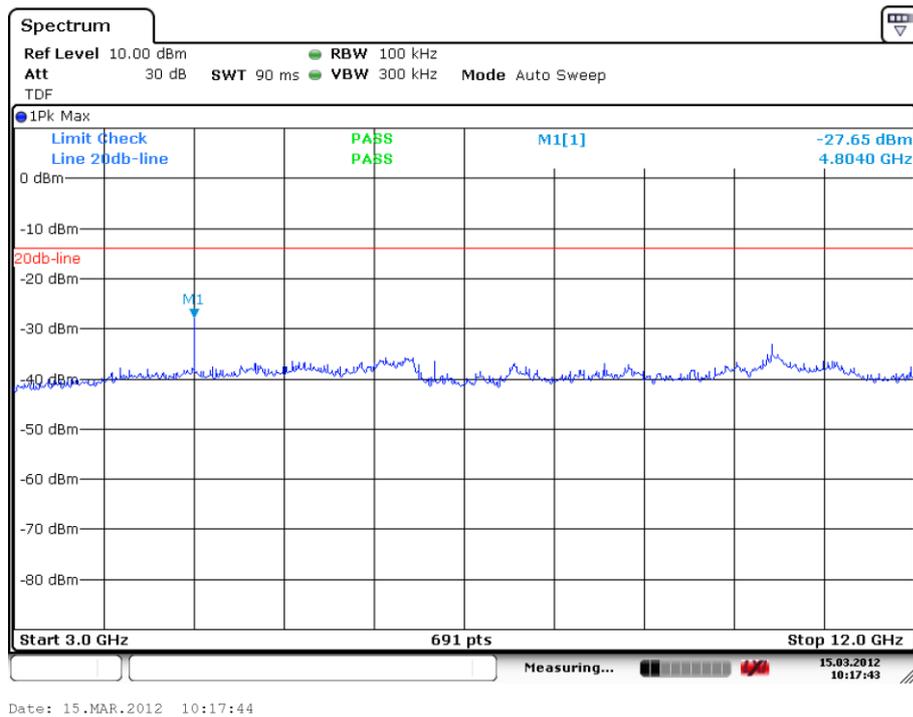


Fig. 9 Conducted Spurious Emission (GFSK, Ch0, 3GHz-12 GHz)

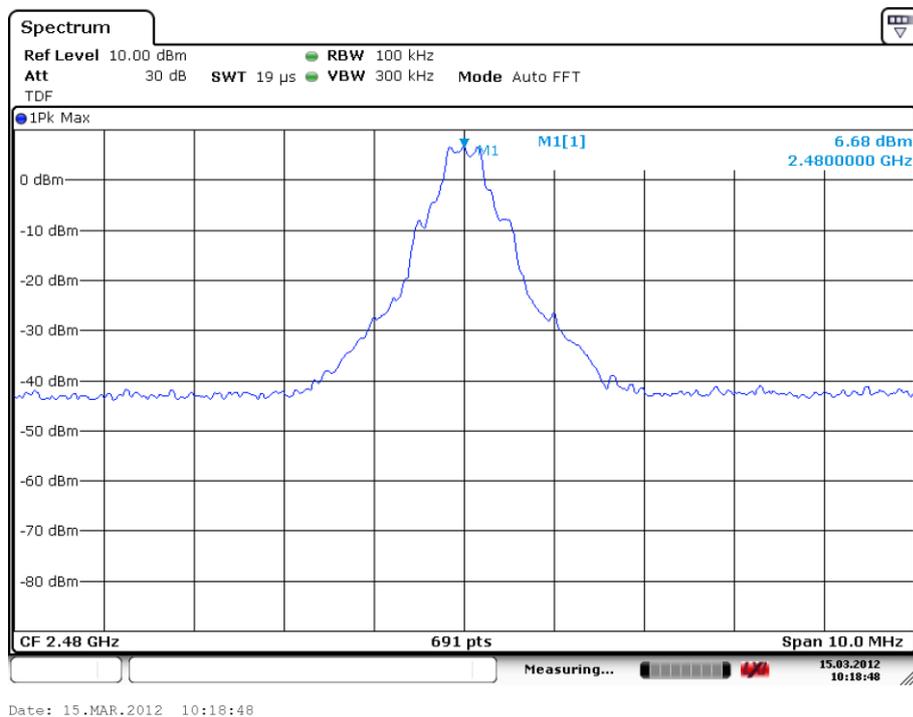


Fig. 10 Conducted Spurious Emission (GFSK, Ch78, 2.480GHz)

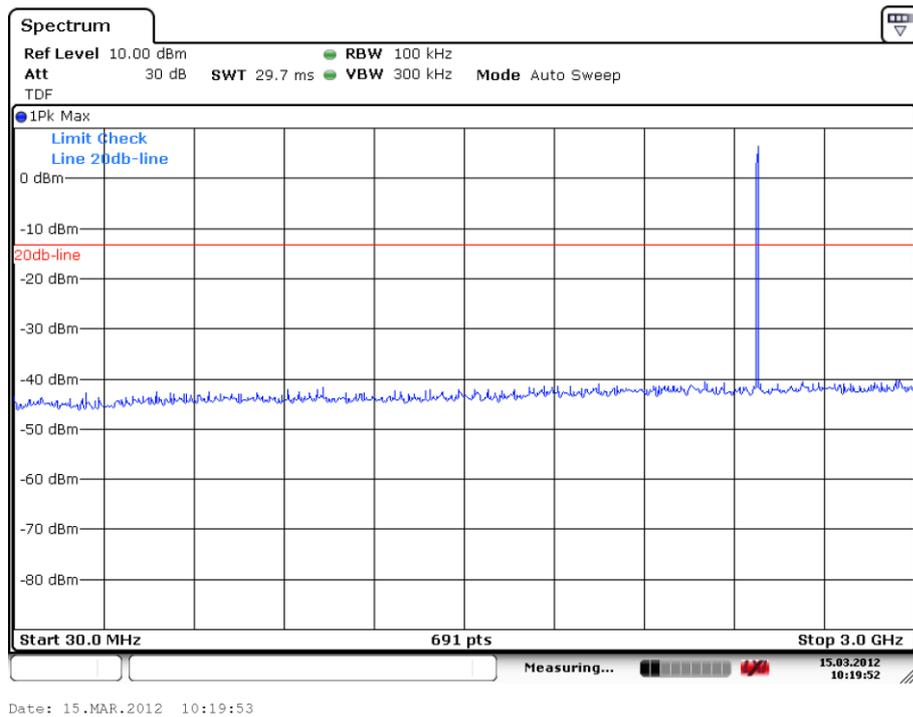


Fig. 11 Conducted Spurious Emission (GFSK, Ch78, 30 MHz-3 GHz)

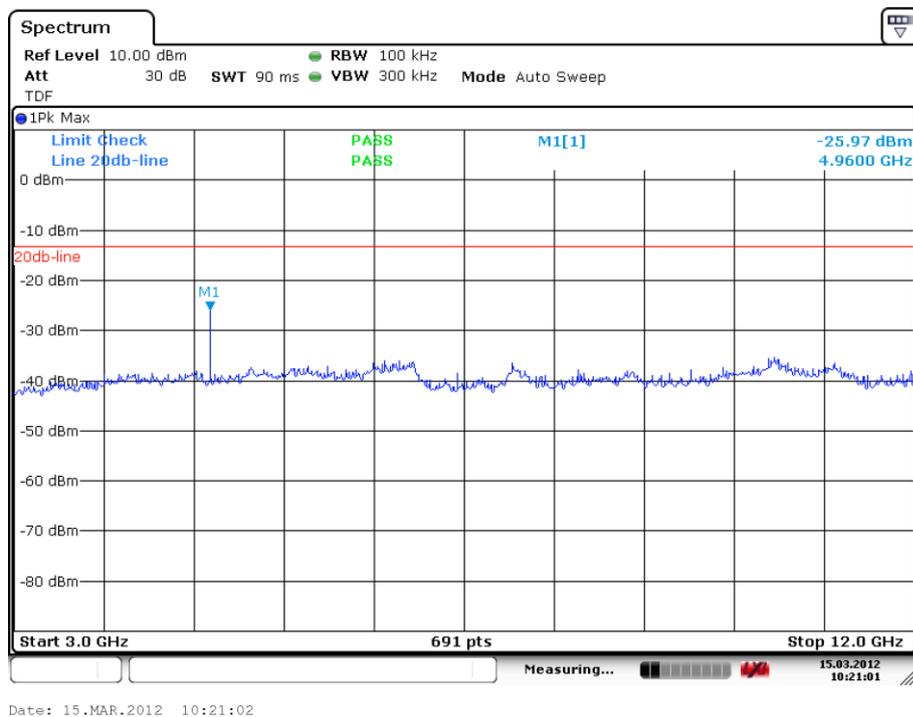


Fig. 12 Conducted Spurious Emission (GFSK, Ch78, 3GHz-12 GHz)

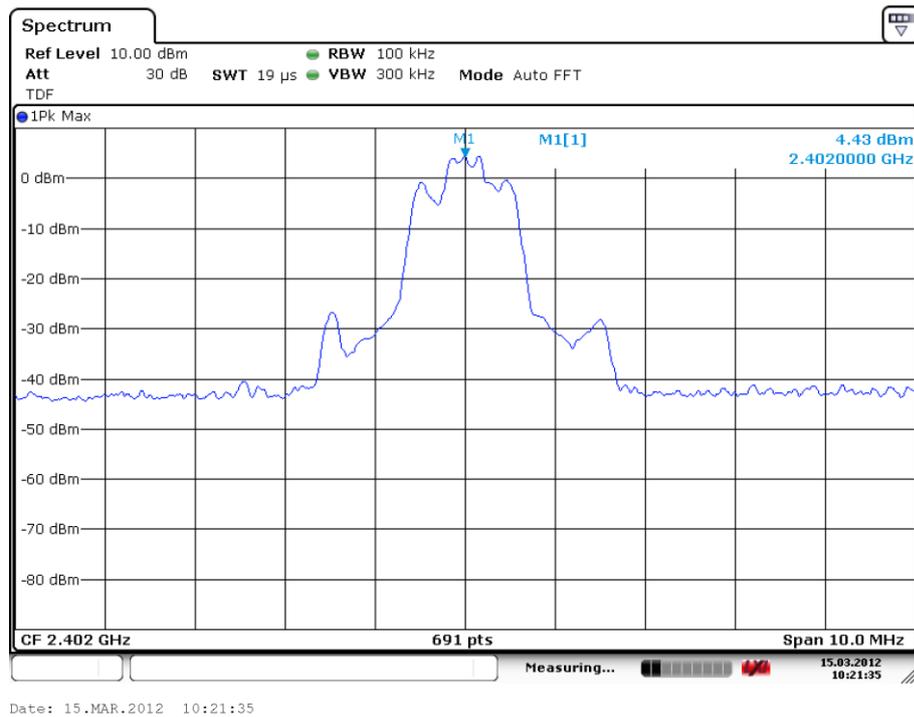


Fig. 13 Conducted Spurious Emission ($\pi/4$ DQPSK, Ch0, 2.402GHz)

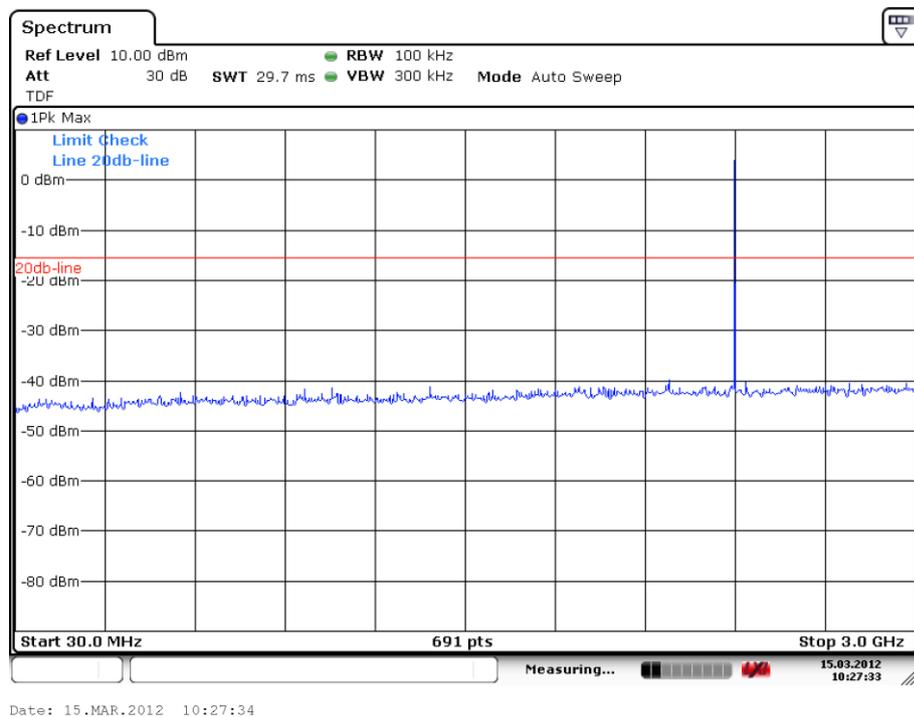


Fig. 14 Conducted Spurious Emission ($\pi/4$ DQPSK, Ch0, 30 MHz-3 GHz)

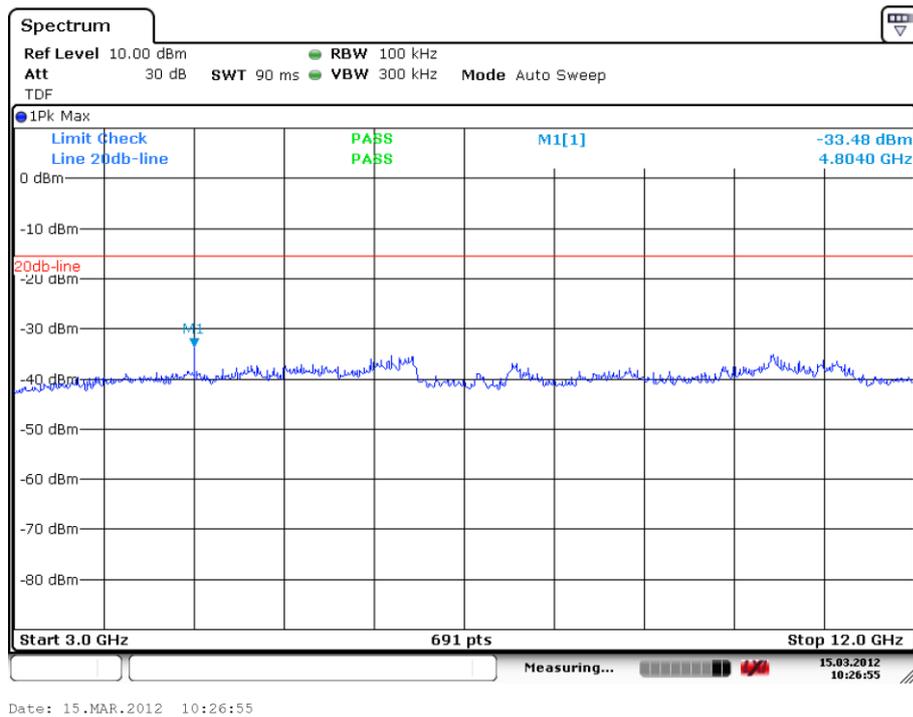


Fig. 15 Conducted Spurious Emission ($\pi/4$ DQPSK, Ch0, 3GHz-12 GHz)

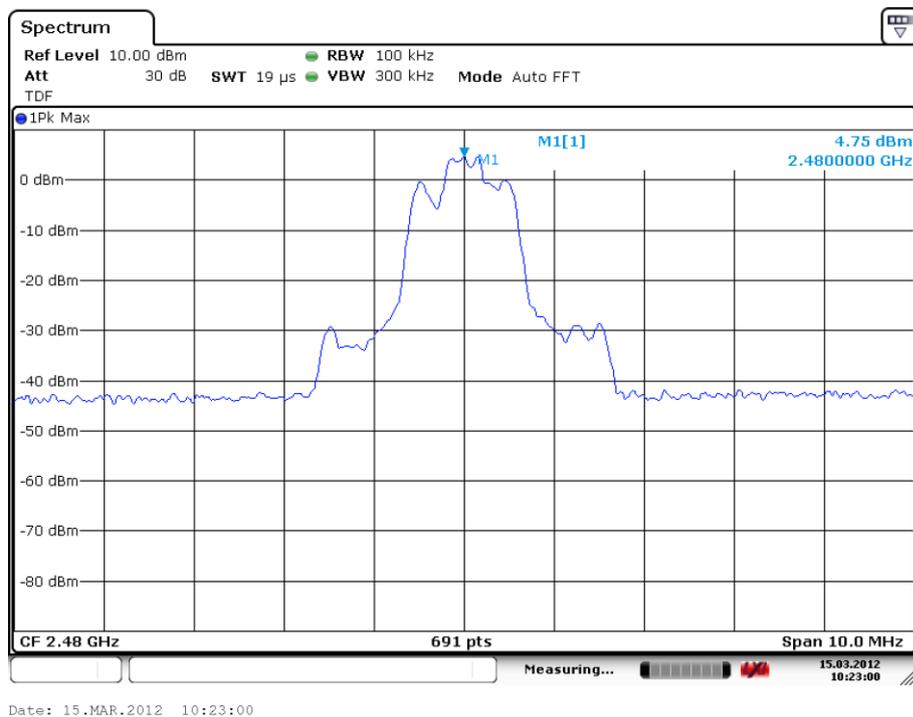


Fig. 16 Conducted Spurious Emission ($\pi/4$ DQPSK, Ch78, 2.480GHz)

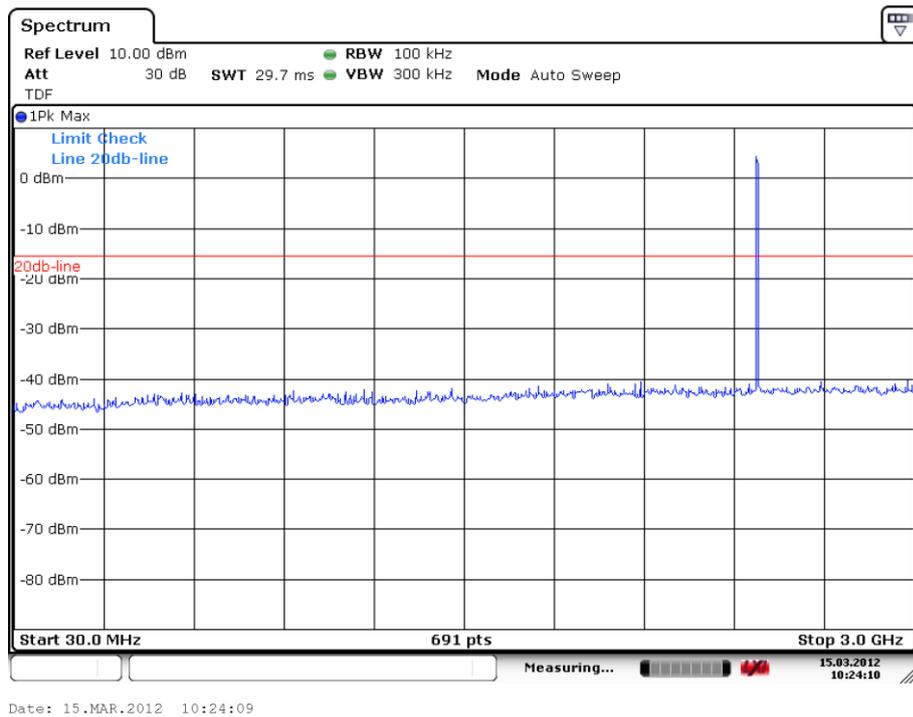


Fig. 17 Conducted Spurious Emission ($\pi/4$ DQPSK, Ch78, 30 MHz-3 GHz)

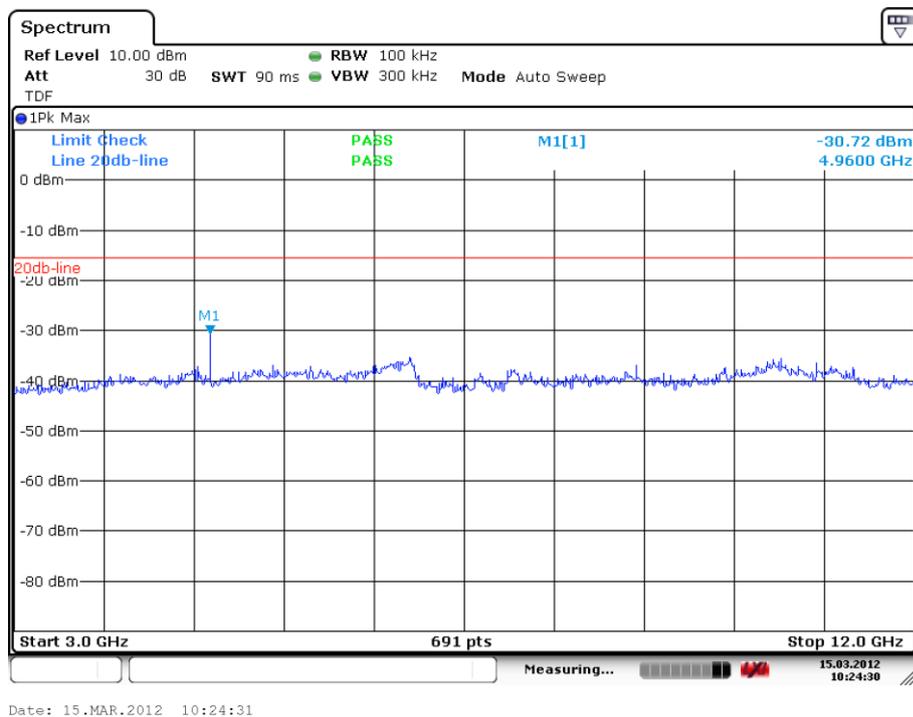
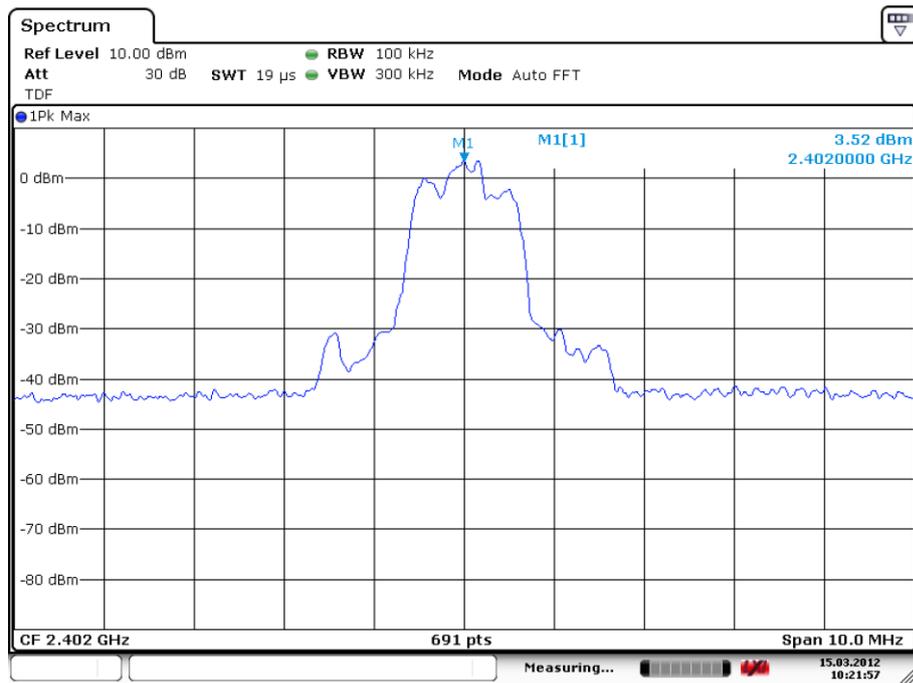
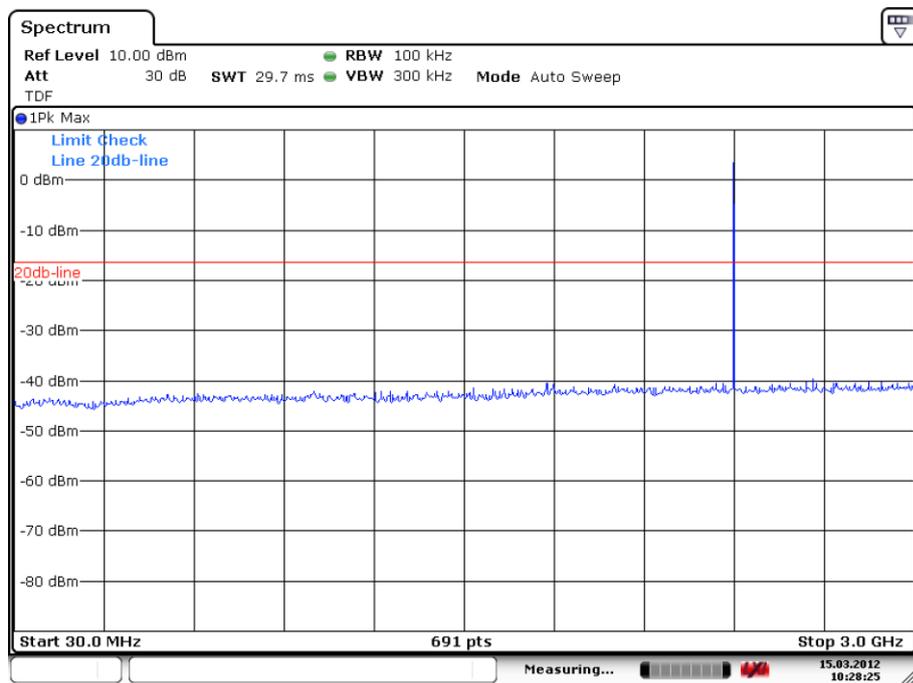


Fig. 18 Conducted Spurious Emission ($\pi/4$ DQPSK, Ch78, 3GHz-12 GHz)



Date: 15.MAR.2012 10:21:58

Fig. 19 Conducted Spurious Emission (8DPSK, Ch0, 2.402GHz)



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Fig. 20 Conducted Spurious Emission (8DPSK, Ch0, 30 MHz-3 GHz)

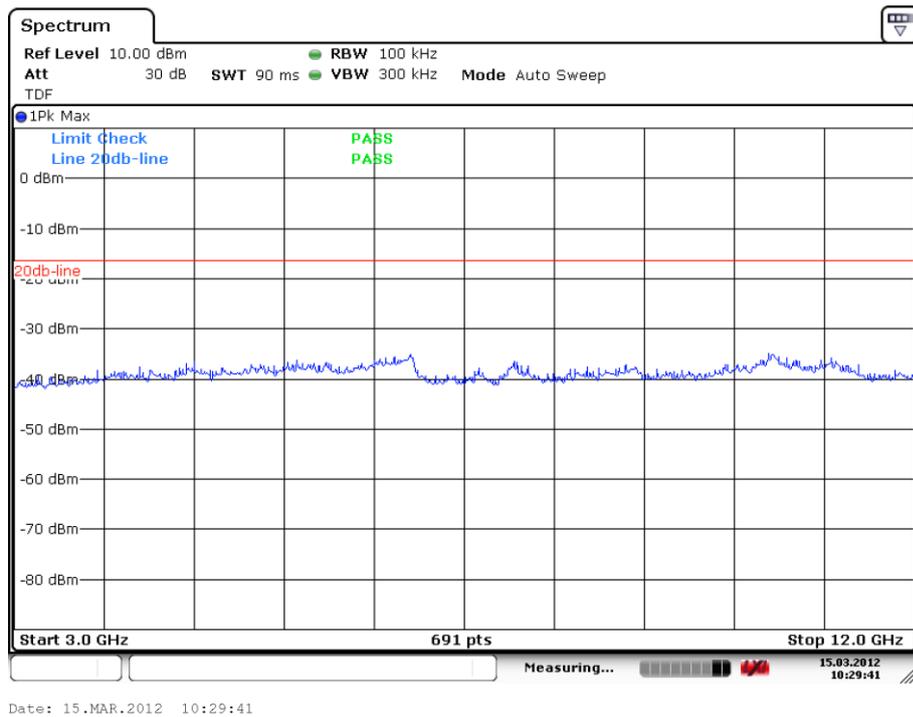


Fig. 21 Conducted Spurious Emission (8DPSK, Ch0, 3GHz-12 GHz)

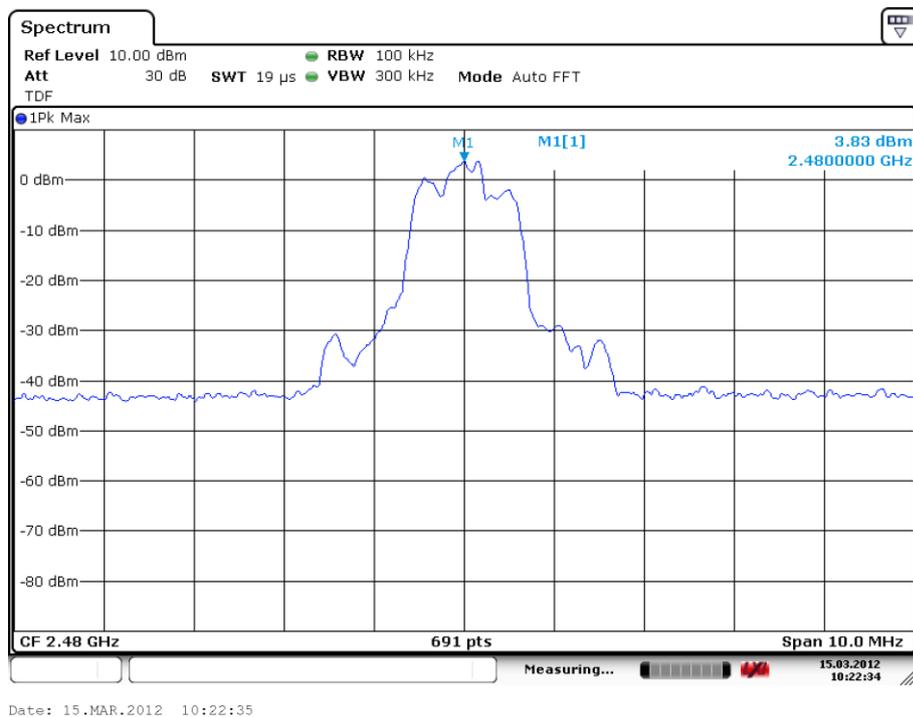


Fig. 22 Conducted Spurious Emission (8DPSK, Ch78, 2.480GHz)

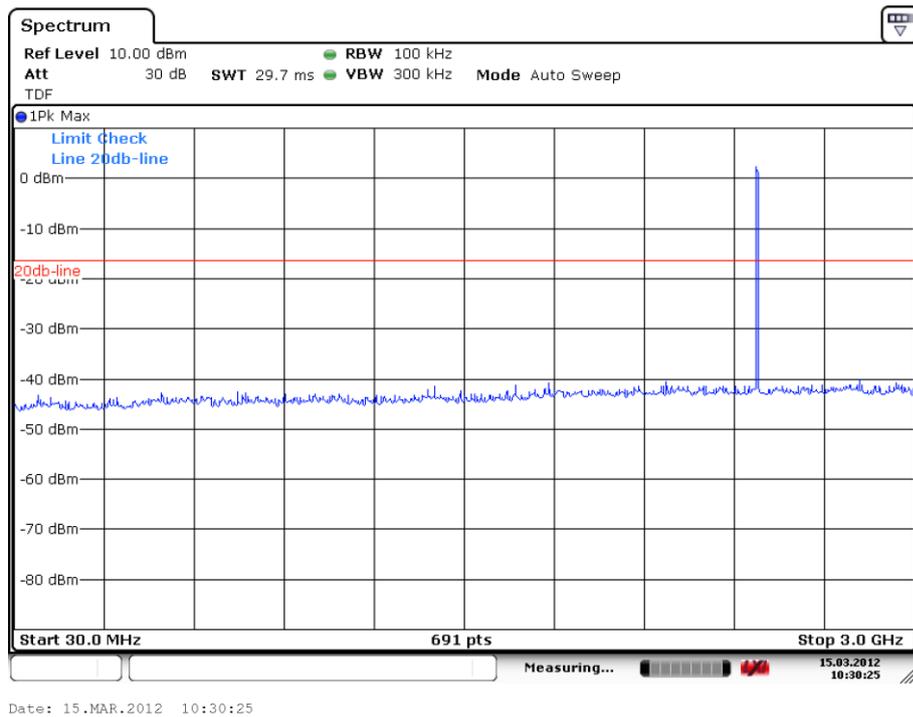


Fig. 23 Conducted Spurious Emission (8DPSK, Ch78, 30 MHz-3 GHz)

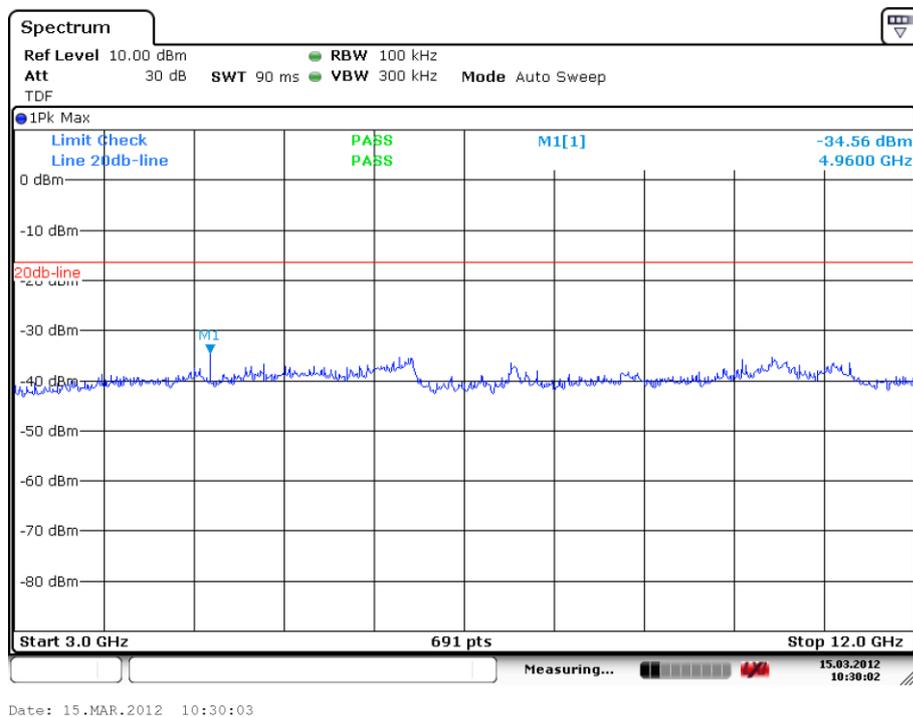


Fig. 24 Conducted Spurious Emission (8DPSK, Ch78, 3GHz-12 GHz)

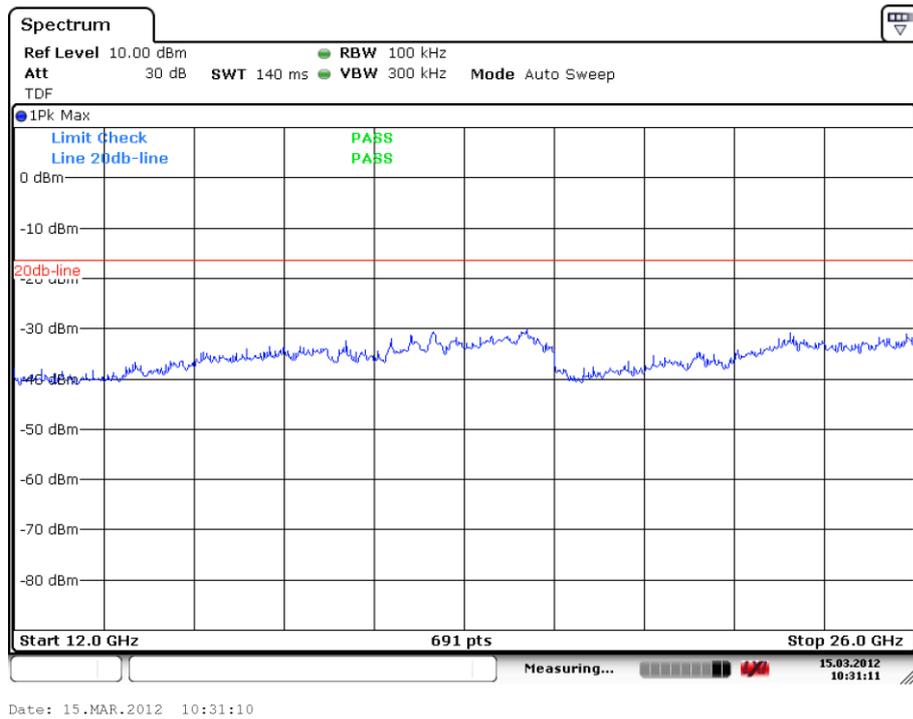


Fig. 25 Conducted Spurious Emission (All channel, 12 GHz-26 GHz)

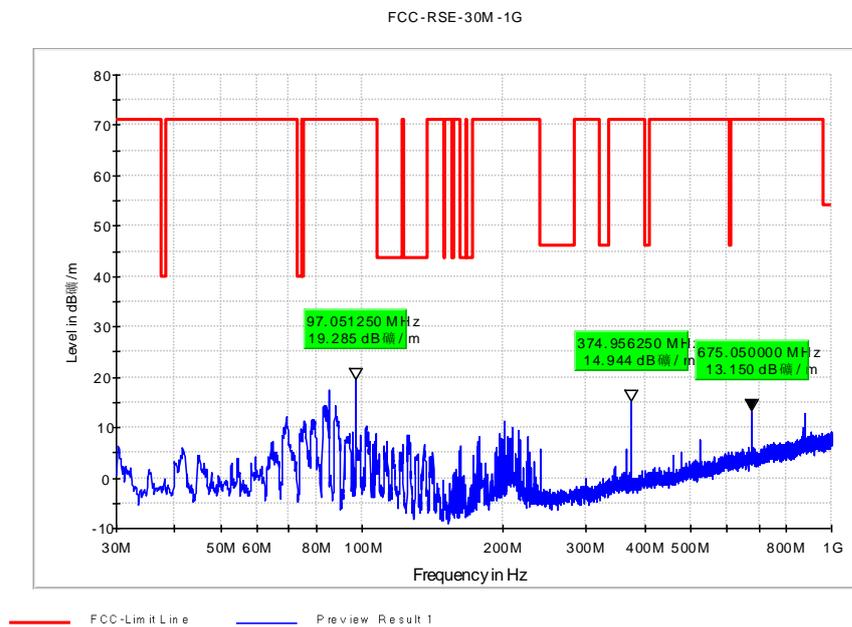


Fig. 26 Radiated Spurious Emission (GFSK, Ch0, 30 MHz ~1 GHz)

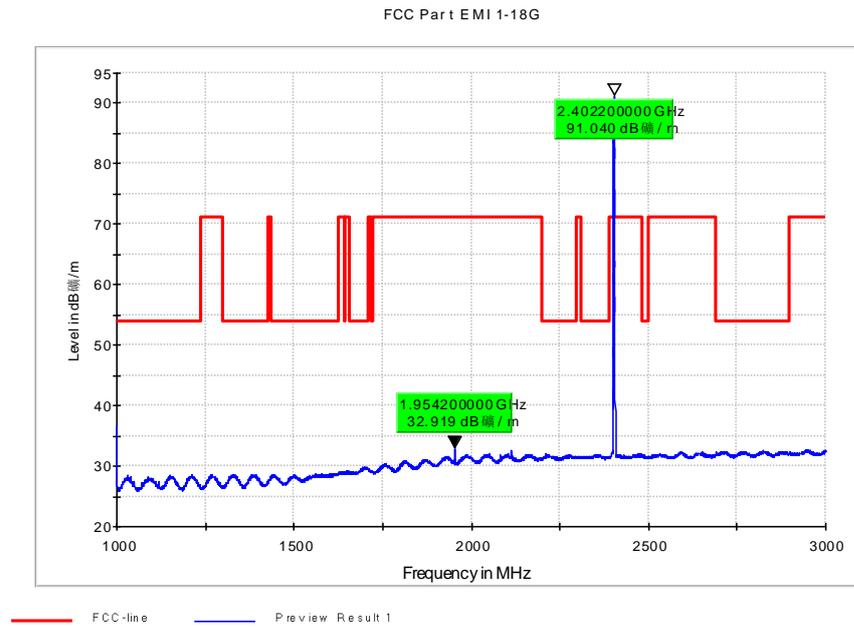


Fig. 27 Radiated Spurious Emission (GFSK, Ch0, 1 GHz ~3 GHz)

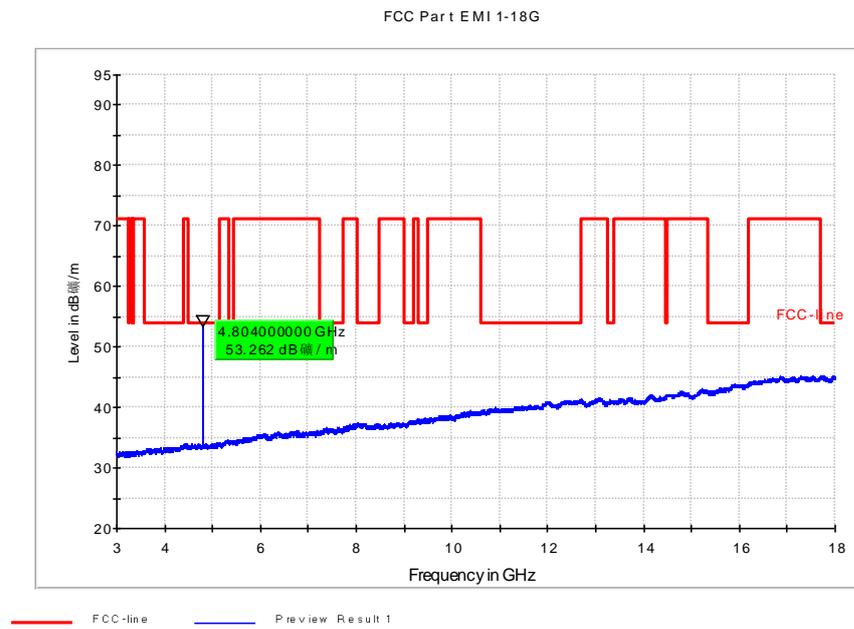


Fig. 28 Radiated Spurious Emission (GFSK, Ch0, 3 GHz ~18 GHz)

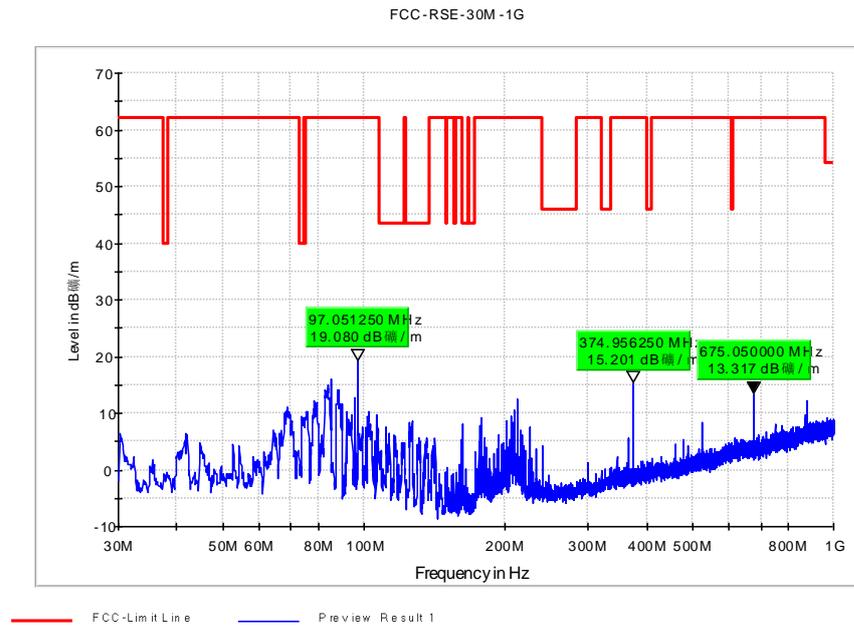


Fig. 29 Radiated Spurious Emission (GFSK, Ch78, 30 MHz ~1 GHz)

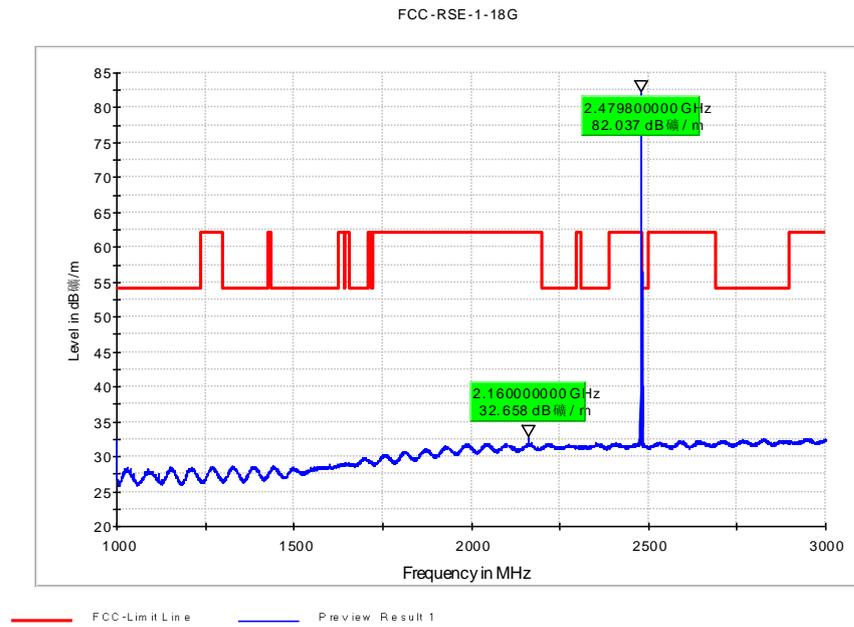


Fig. 30 Radiated Spurious Emission (GFSK, Ch78, 1 GHz ~3 GHz)

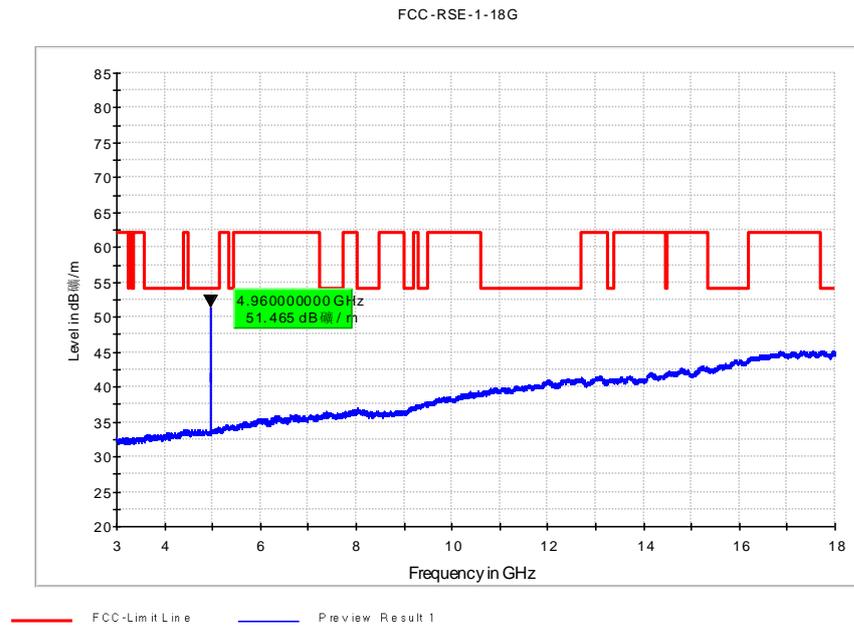


Fig. 31 Radiated Spurious Emission (GFSK, Ch78, 3 GHz ~18 GHz)

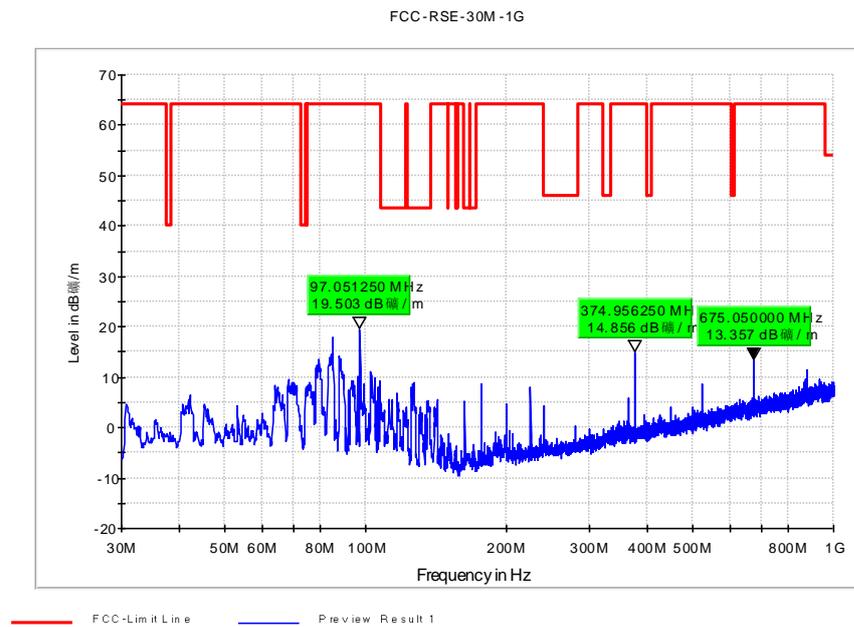


Fig. 32 Radiated Spurious Emission ($\pi/4$ DQPSK, Ch0, 30 MHz ~1 GHz)

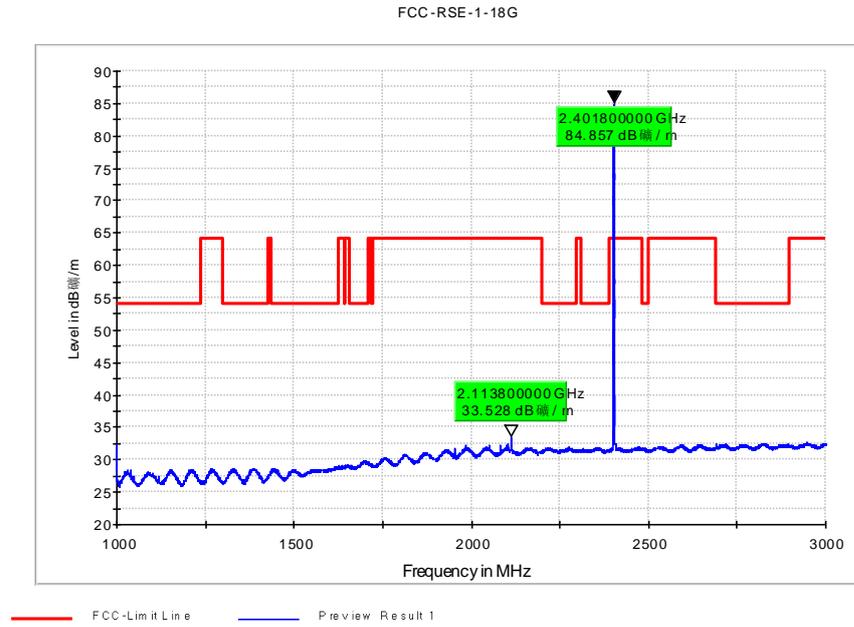


Fig. 33 Radiated Spurious Emission ($\pi/4$ DQPSK, Ch0, 1 GHz ~3 GHz)

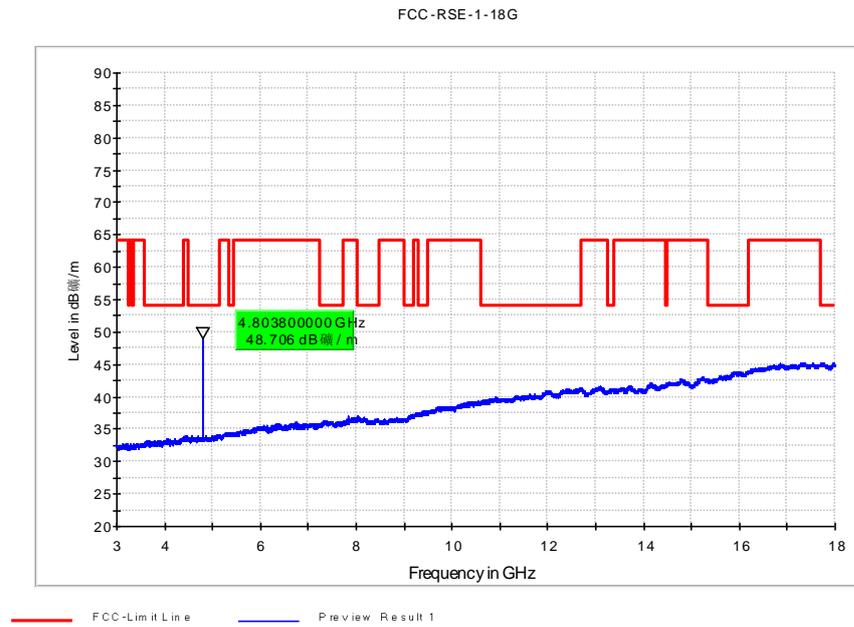


Fig. 34 Radiated Spurious Emission ($\pi/4$ DQPSK, Ch0, 3 GHz ~18 GHz)

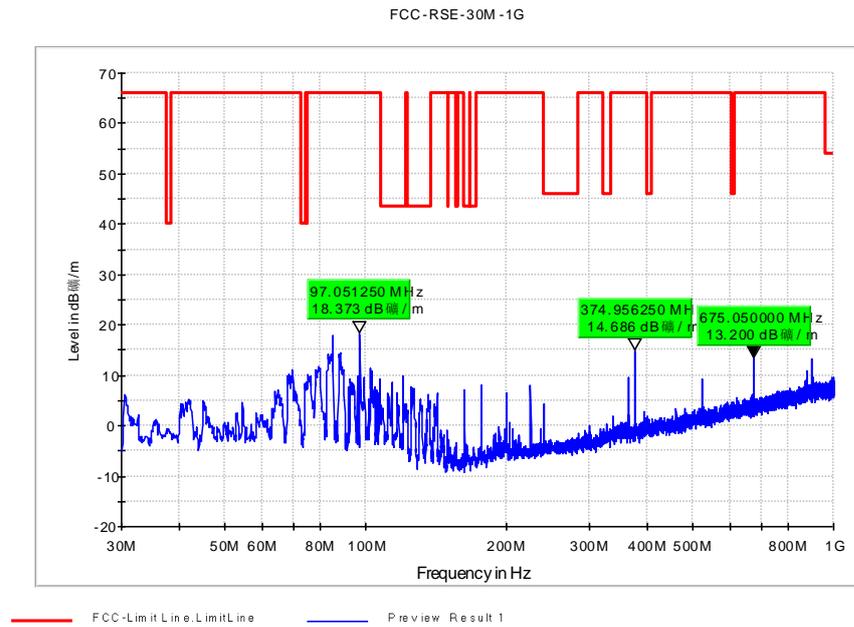


Fig. 35 Radiated Spurious Emission ($\pi/4$ DQPSK, Ch78, 30 MHz ~1 GHz)

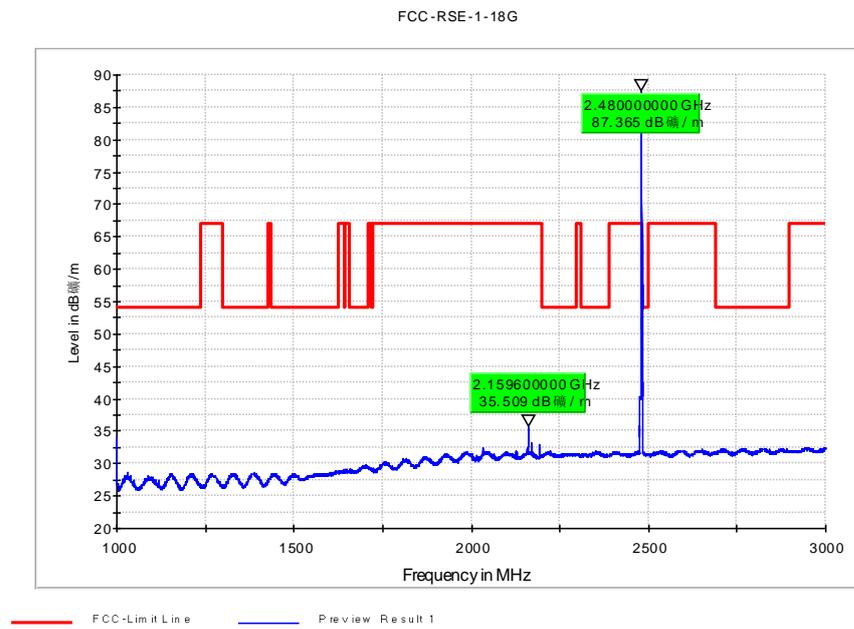


Fig. 36 Radiated Spurious Emission ($\pi/4$ DQPSK, Ch78, 1 GHz ~3 GHz)

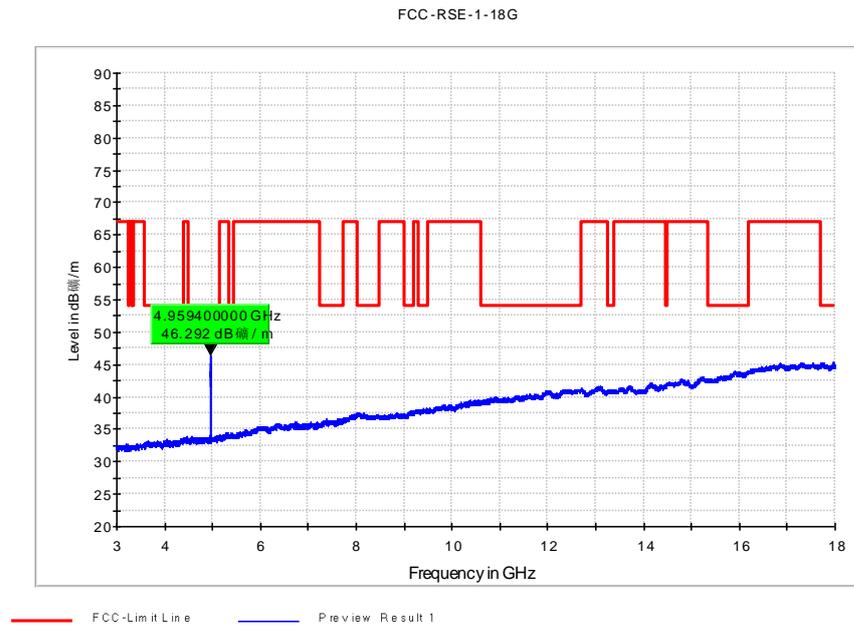


Fig. 37 Radiated Spurious Emission ($\pi/4$ DQPSK, Ch78, 3 GHz ~18 GHz)

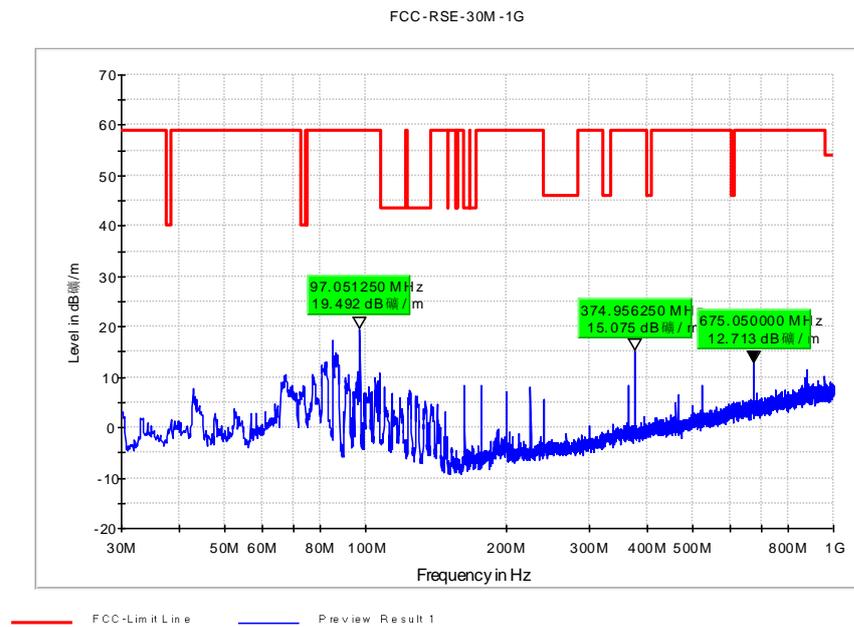


Fig. 38 Radiated Spurious Emission (8DPSK, Ch0, 30 MHz ~1 GHz)

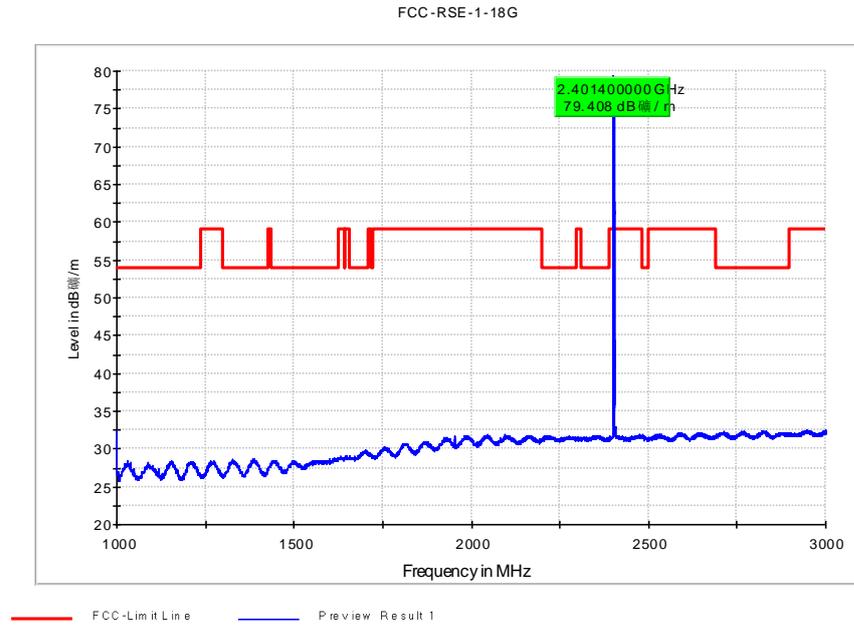


Fig. 39 Radiated Spurious Emission (8DPSK, Ch0, 1 GHz ~3 GHz)

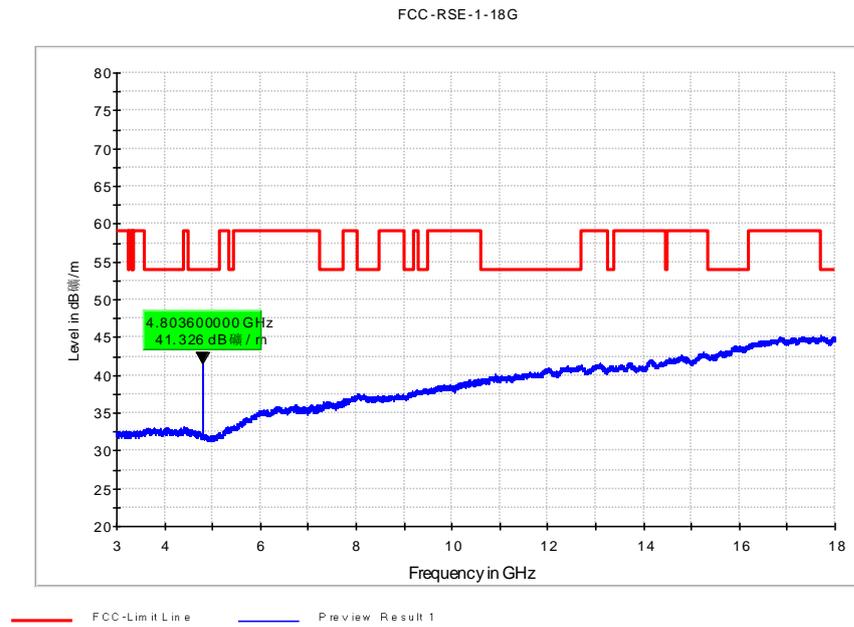


Fig. 40 Radiated Spurious Emission (8DPSK, Ch0, 3 GHz ~18 GHz)

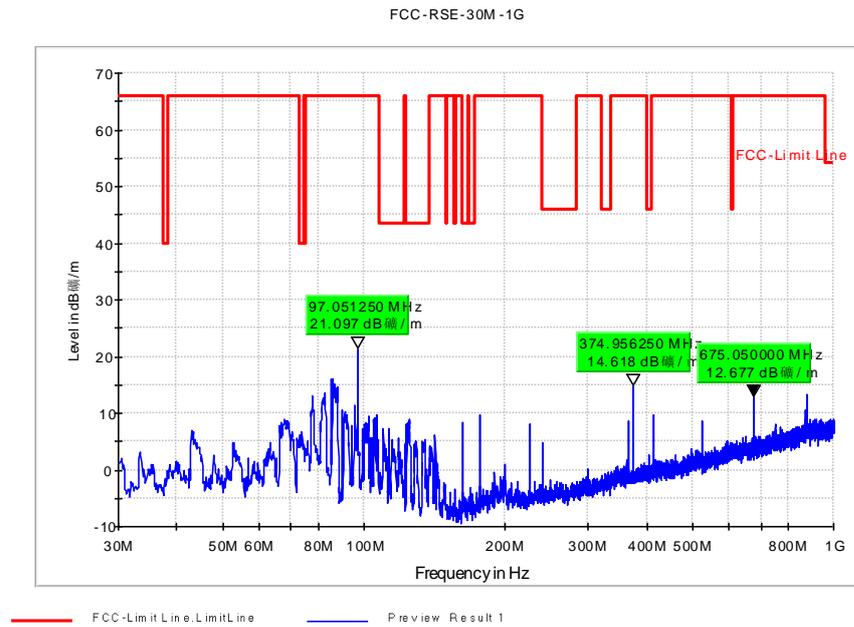


Fig. 41 Radiated Spurious Emission (8DPSK, Ch78, 30 MHz ~1 GHz)

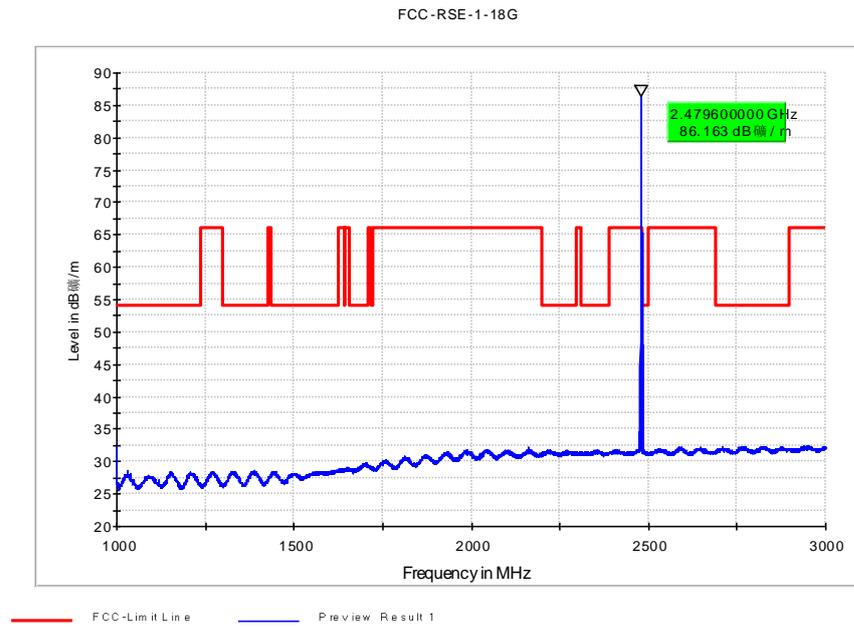


Fig. 42 Radiated Spurious Emission (8DPSK, Ch78, 1 GHz ~3 GHz)

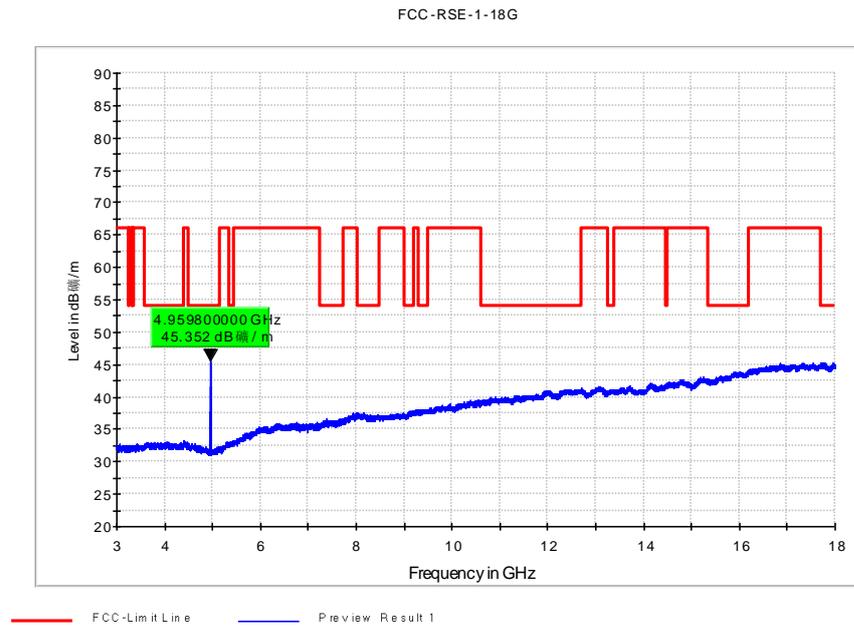


Fig. 43 Radiated Spurious Emission (8DPSK, Ch78, 3 GHz ~18 GHz)

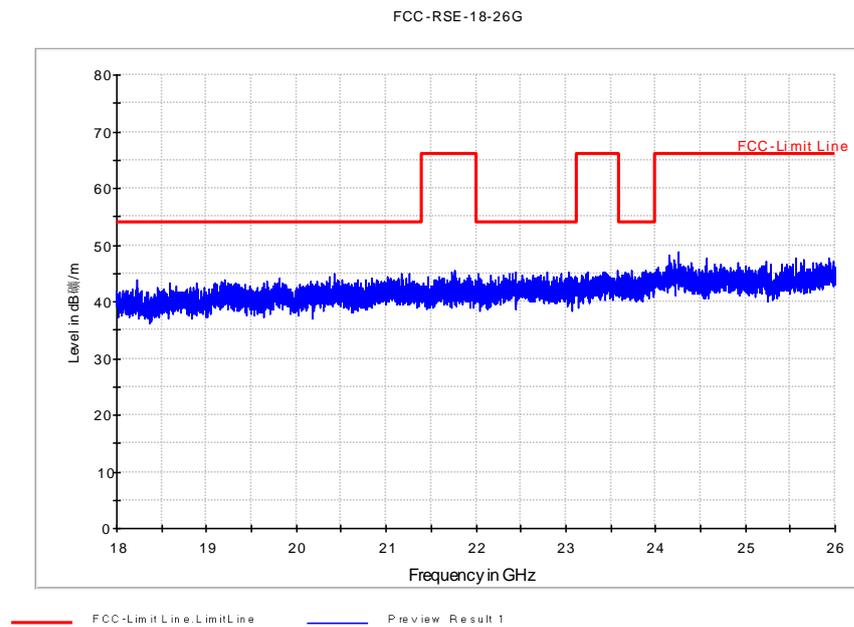


Fig. 44 Radiated Spurious Emission (All channel, 18 GHz ~26 GHz)

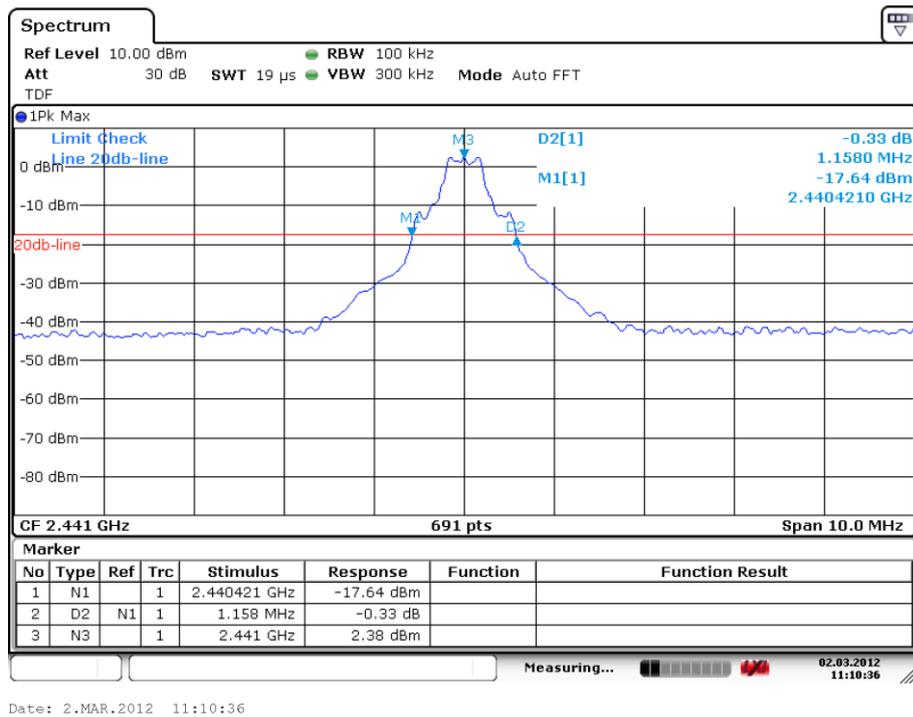


Fig. 45 Occupied 20dB Bandwidth (GFSK, Ch 39)

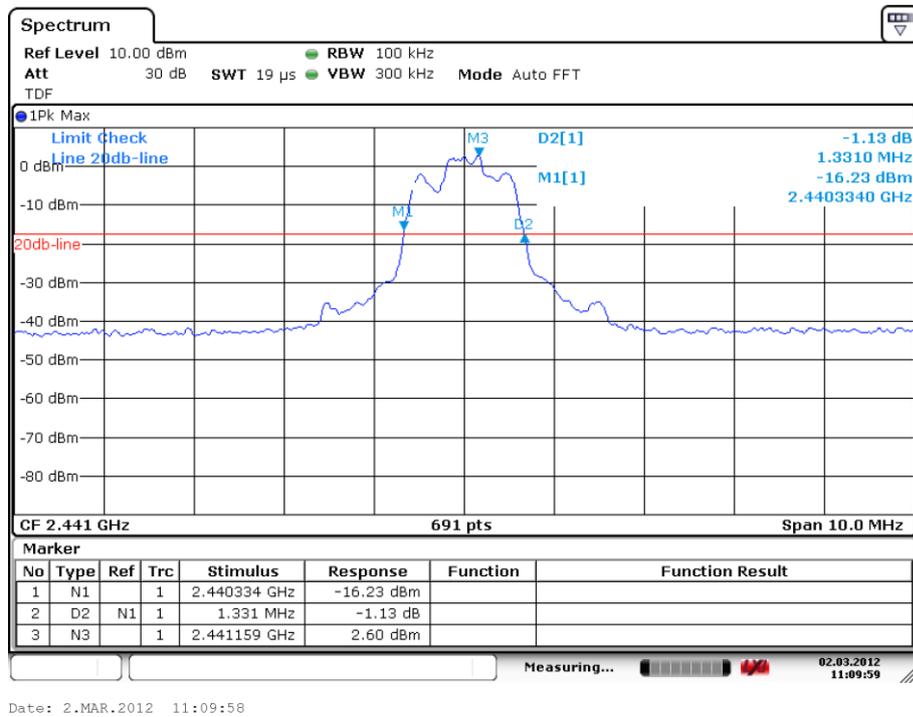
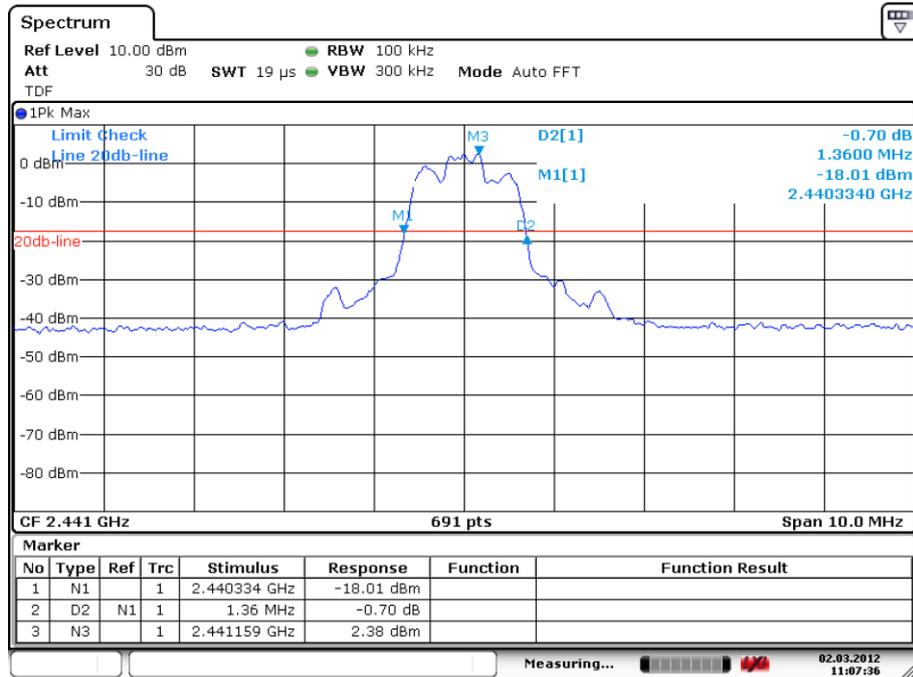
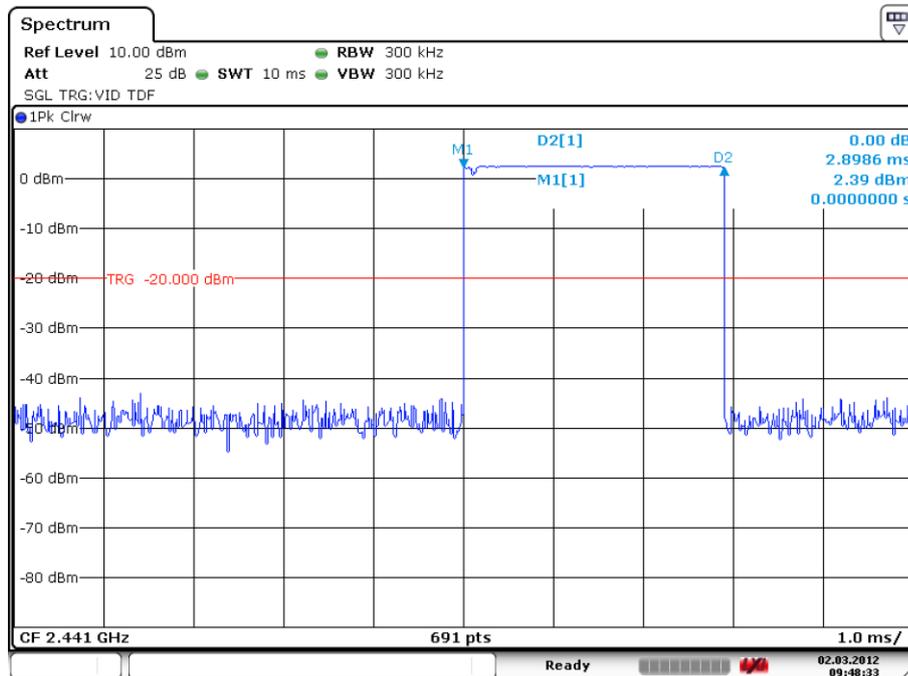


Fig. 46 Occupied 20dB Bandwidth ($\pi/4$ DQPSK, Ch 39)



Date: 2.MAR.2012 11:07:36

Fig. 47 Occupied 20dB Bandwidth (8DPSK, Ch 39)



Date: 2.MAR.2012 09:48:33

Fig. 48 Time of Occupancy(Dwell Time) (GFSK, Ch39)

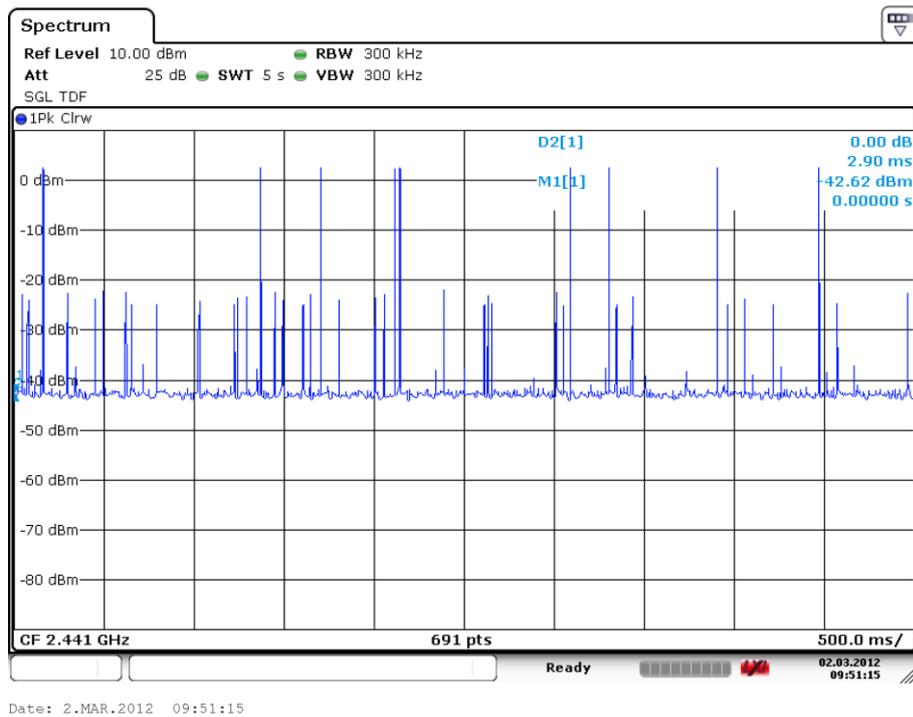


Fig. 49 Number of Transmissions (GFSK, Ch39)

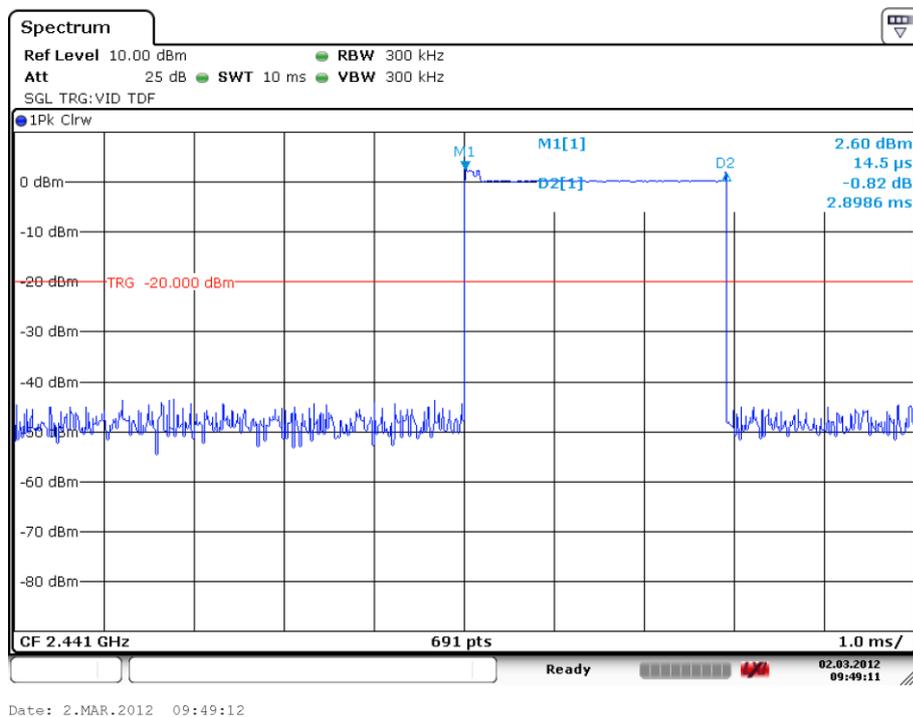


Fig. 50 Time of Occupancy(Dwell Time) ($\pi/4$ DQPSK, Ch39)

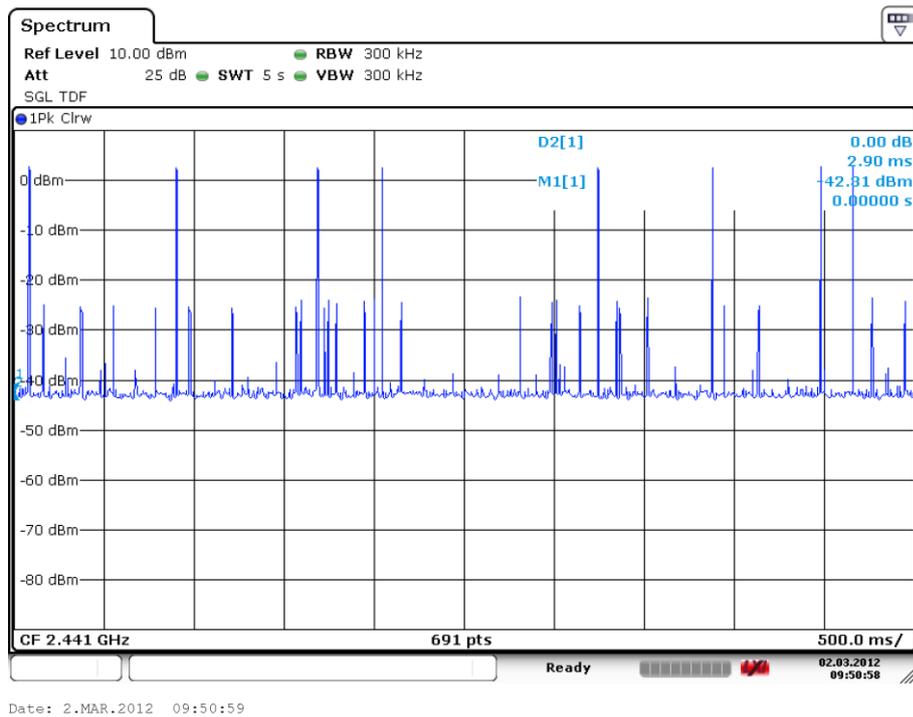


Fig. 51 Number of Transmissions ($\pi/4$ DQPSK, Ch39)

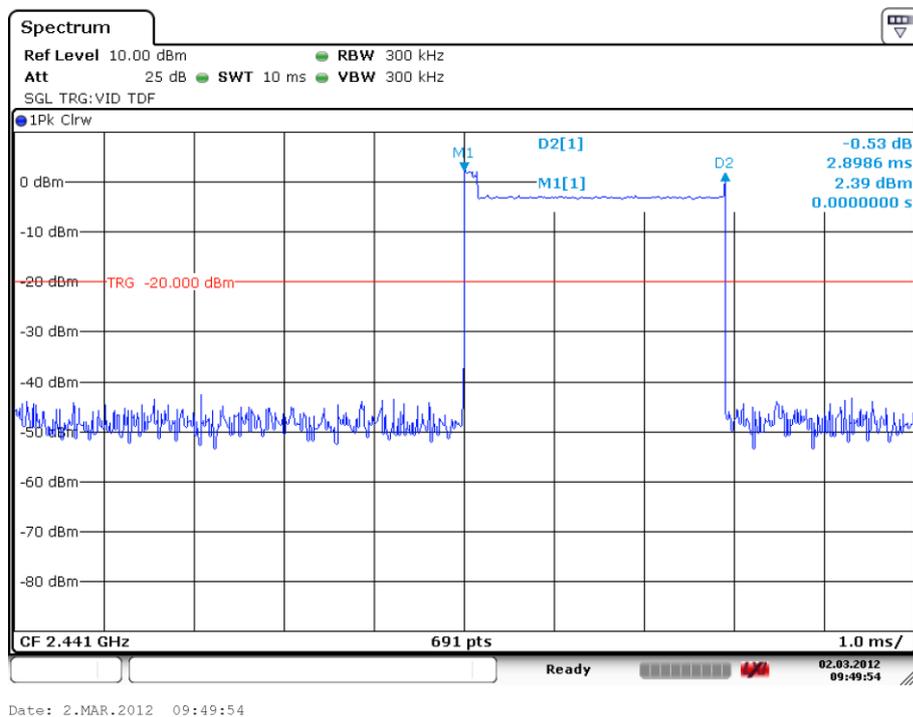
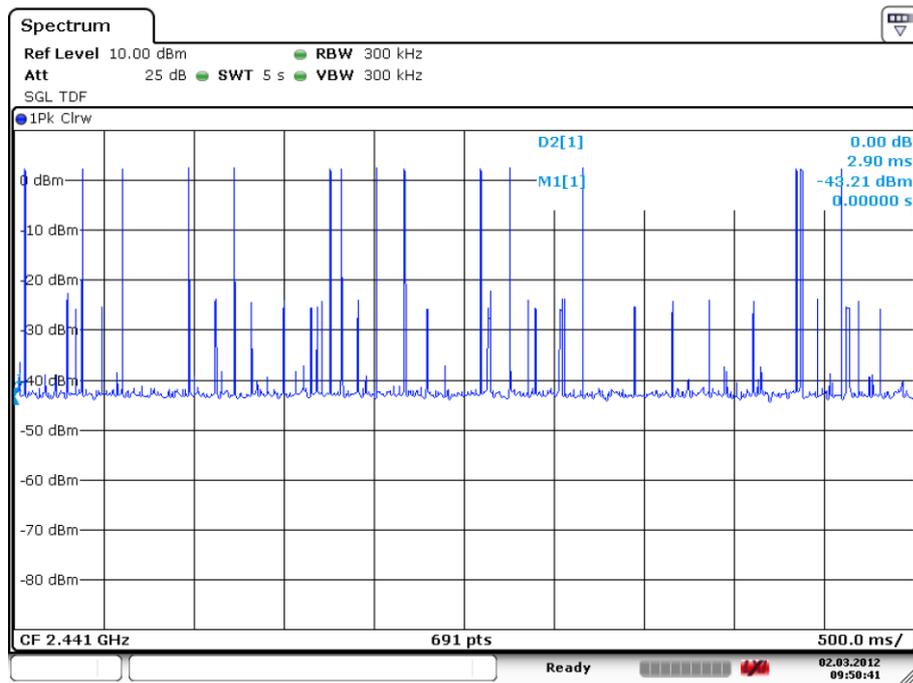
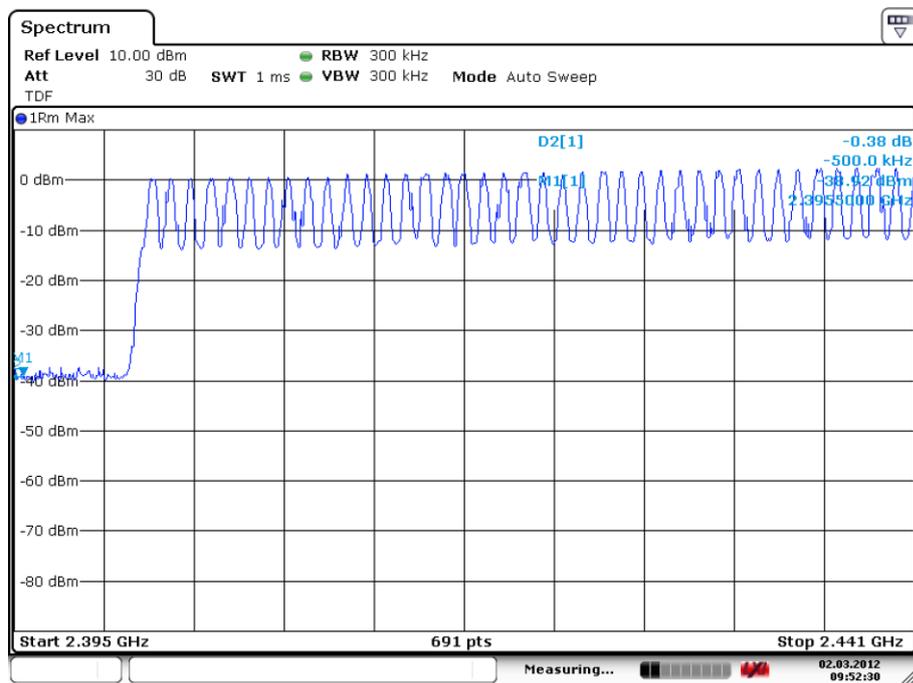


Fig. 52 Time of Occupancy(Dwell Time) (8DPSK, Ch39)



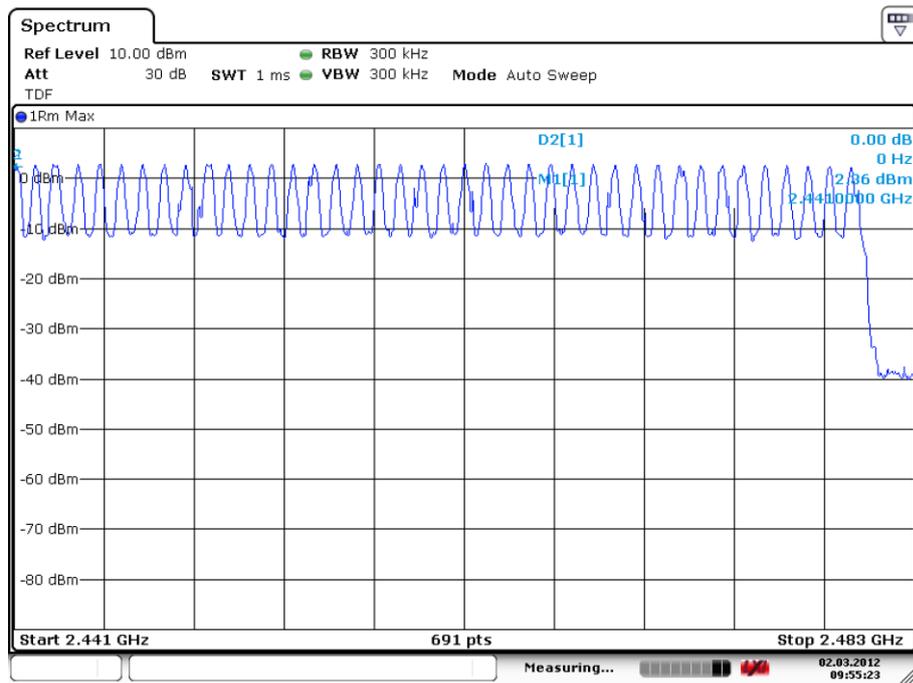
Date: 2.MAR.2012 09:50:41

Fig. 53 Number of Transmissions (8DPSK, Ch39)



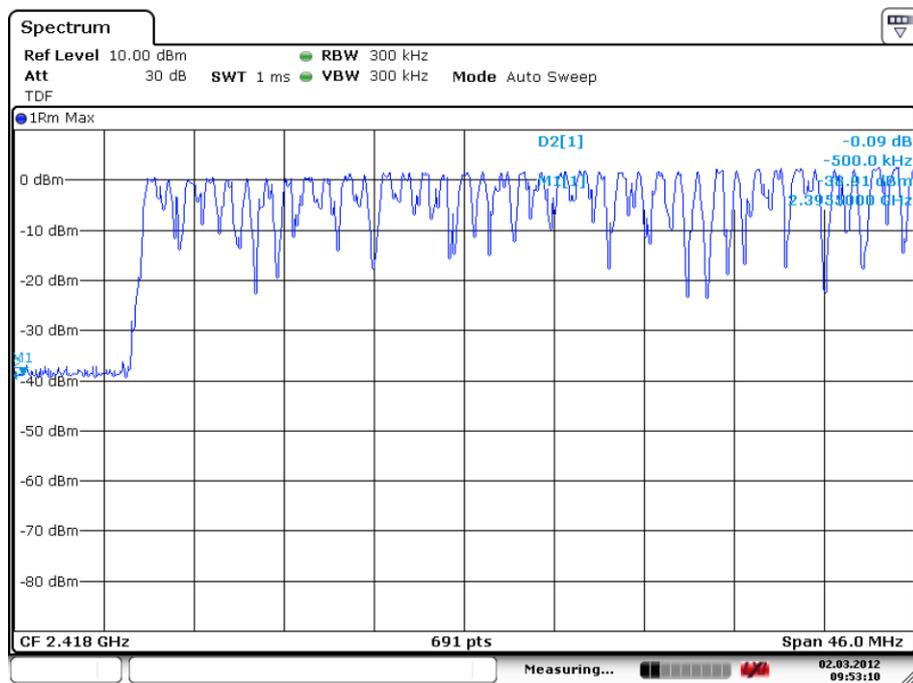
Date: 2.MAR.2012 09:52:31

Fig. 54 Hopping channel ch0~39 (GFSK, Ch39)



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Fig. 55 Hopping channel ch39~78 (GFSK, Ch39)



Date: 2.MAR.2012 09:53:10

Fig. 56 Hopping channel ch0~39 ($\pi/4$ DQPSK, Ch39)

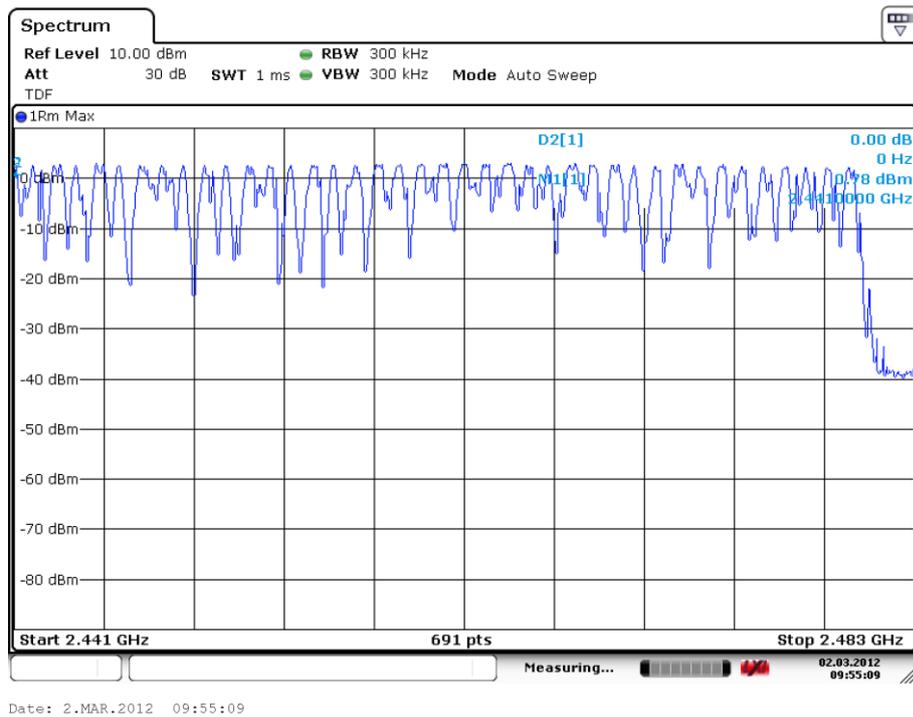


Fig. 57 Hopping channel ch39~78 ($\pi/4$ DQPSK, Ch39)

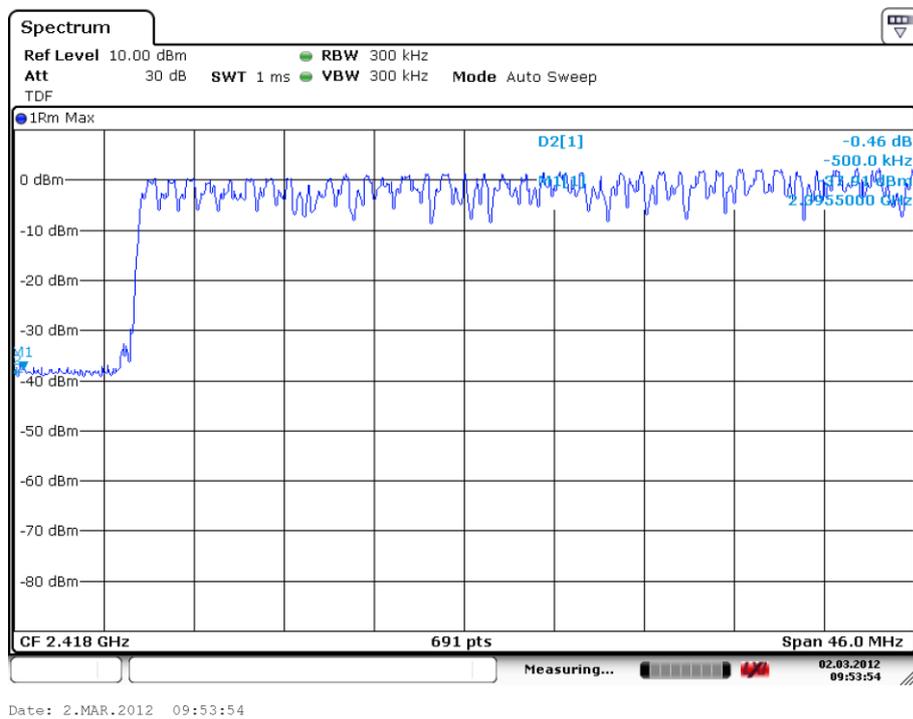


Fig. 58 Hopping channel ch0~39 (8DPSK, Ch39)

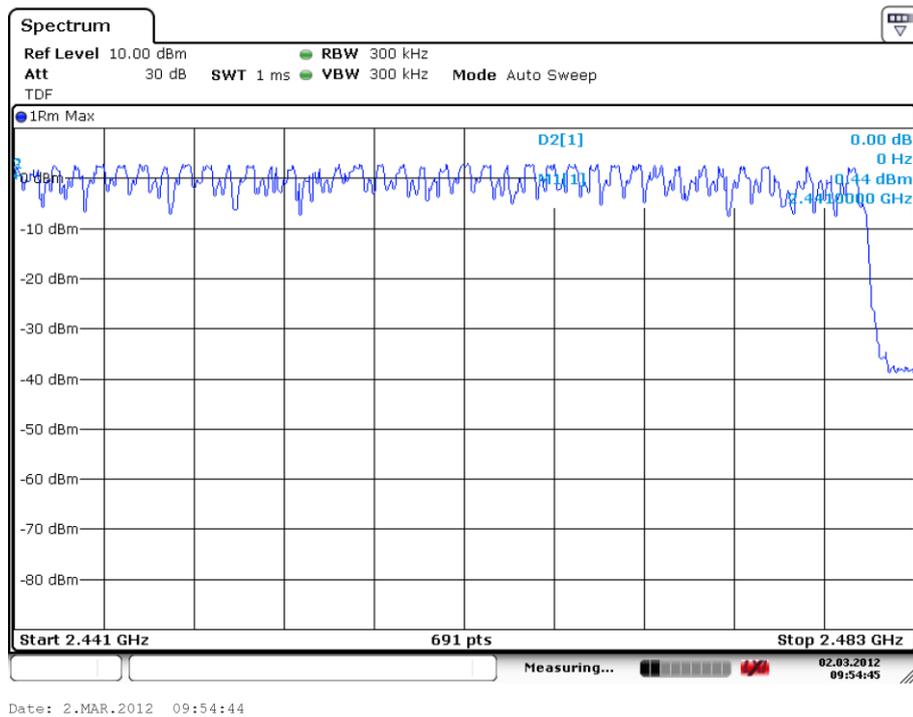


Fig. 59 Hopping channel ch39~78 (8DPSK, Ch39)

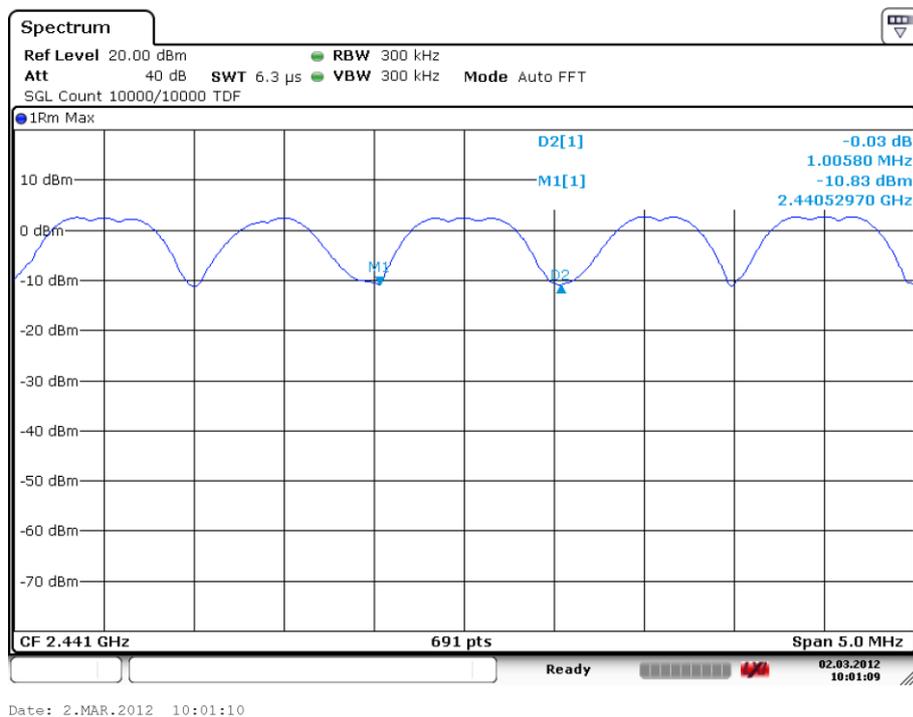


Fig. 60 Carrier Frequency Separation (GFSK, Ch39)

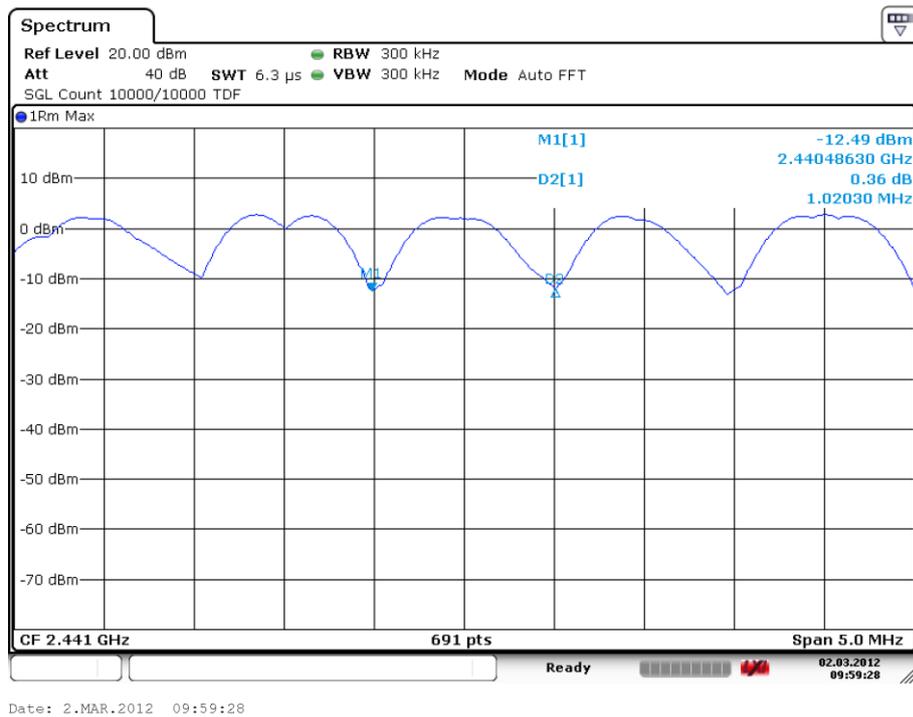


Fig. 61 Carrier Frequency Separation ($\pi/4$ DQPSK, Ch39)

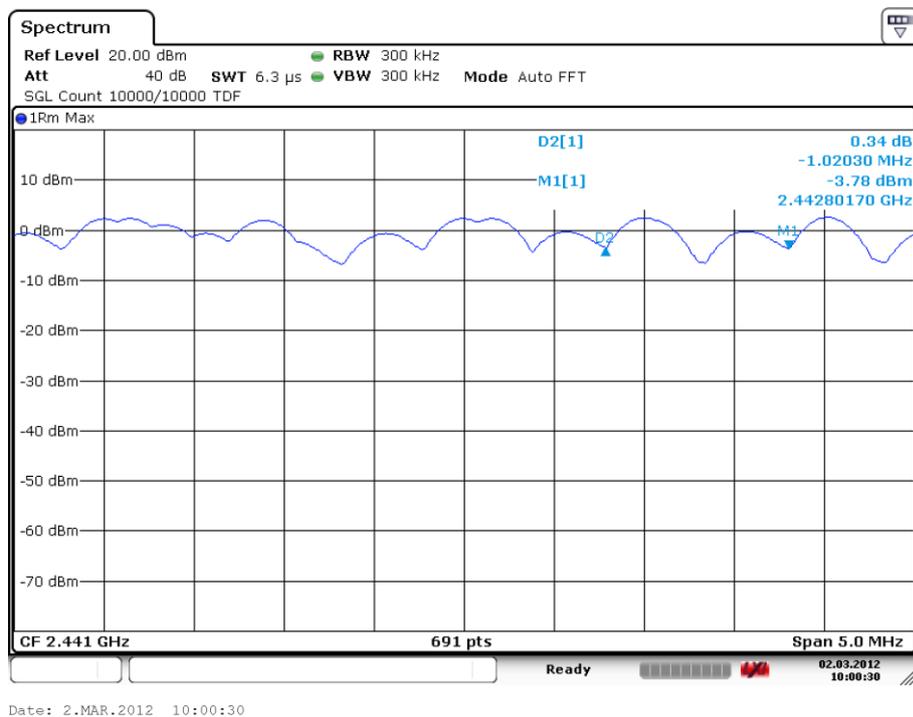


Fig. 62 Carrier Frequency Separation (8DPSK, Ch39)

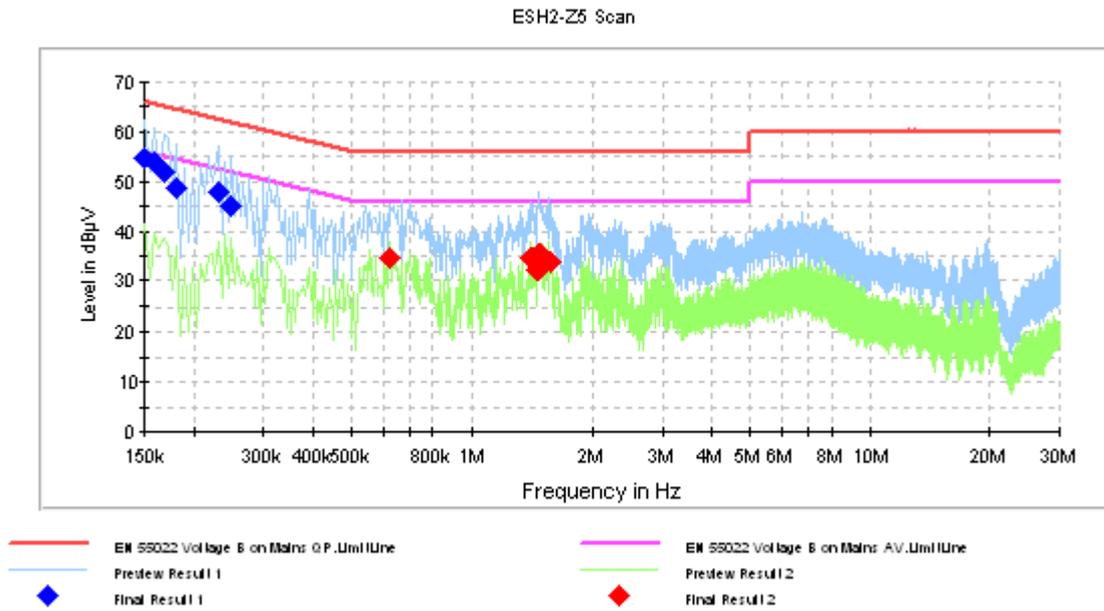


Fig. 63 AC Power line Conducted Emission (GFSK, Ch39)

MEASUREMENT RESULT: " QuasiPeak "

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 0.150000 | 54.8 | FLO | N | 10.1 | 11.2 | 66.0 |
| 0.159000 | 53.7 | FLO | N | 10.1 | 11.8 | 65.5 |
| 0.168000 | 51.8 | FLO | N | 10.1 | 13.3 | 65.1 |
| 0.181500 | 48.8 | FLO | L1 | 10.0 | 15.6 | 64.4 |
| 0.231000 | 47.8 | FLO | L1 | 10.0 | 14.6 | 62.4 |
| 0.249000 | 45.1 | FLO | N | 10.1 | 16.7 | 61.8 |

MEASUREMENT RESULT: " Average "

| Frequency (MHz) | CAverage (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-----------------|-----|------|------------|-------------|--------------|
| 0.622500 | 34.4 | FLO | L1 | 10.0 | 11.6 | 46.0 |
| 1.414500 | 34.5 | FLO | L1 | 10.1 | 11.5 | 46.0 |
| 1.464000 | 32.2 | FLO | L1 | 10.1 | 13.8 | 46.0 |
| 1.482000 | 35.3 | FLO | L1 | 10.1 | 10.7 | 46.0 |
| 1.513500 | 33.9 | FLO | L1 | 10.1 | 12.1 | 46.0 |
| 1.563000 | 33.7 | FLO | L1 | 10.1 | 12.3 | 46.0 |

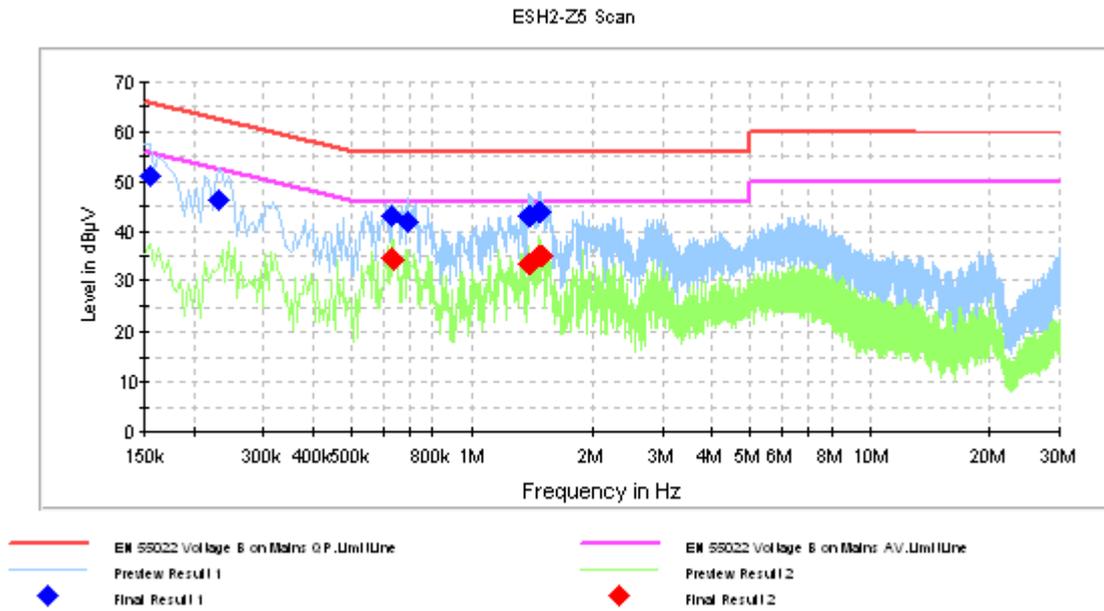


Fig. 64 AC Power line Conducted Emission ($\pi/4$ DQPSK, Ch39)

MEASUREMENT RESULT: " QuasiPeak "

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 0.154500 | 51.2 | FLO | L1 | 10.0 | 14.6 | 65.8 |
| 0.231000 | 46.4 | FLO | L1 | 10.0 | 16.0 | 62.4 |
| 0.627000 | 42.9 | FLO | L1 | 10.0 | 13.1 | 56.0 |
| 0.690000 | 42.0 | FLO | L1 | 10.0 | 14.0 | 56.0 |
| 1.401000 | 43.1 | FLO | L1 | 10.1 | 12.9 | 56.0 |
| 1.482000 | 44.0 | FLO | L1 | 10.1 | 12.0 | 56.0 |

MEASUREMENT RESULT: " Average "

| Frequency (MHz) | CAverage (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-----------------|-----|------|------------|-------------|--------------|
| 0.627000 | 34.6 | FLO | L1 | 10.0 | 11.4 | 46.0 |
| 0.636000 | 34.3 | FLO | L1 | 10.0 | 11.7 | 46.0 |
| 1.401000 | 33.5 | FLO | L1 | 10.1 | 12.5 | 46.0 |
| 1.482000 | 35.1 | FLO | L1 | 10.1 | 10.9 | 46.0 |
| 1.491000 | 34.9 | FLO | L1 | 10.1 | 11.1 | 46.0 |
| 1.500000 | 34.9 | FLO | L1 | 10.1 | 11.1 | 46.0 |

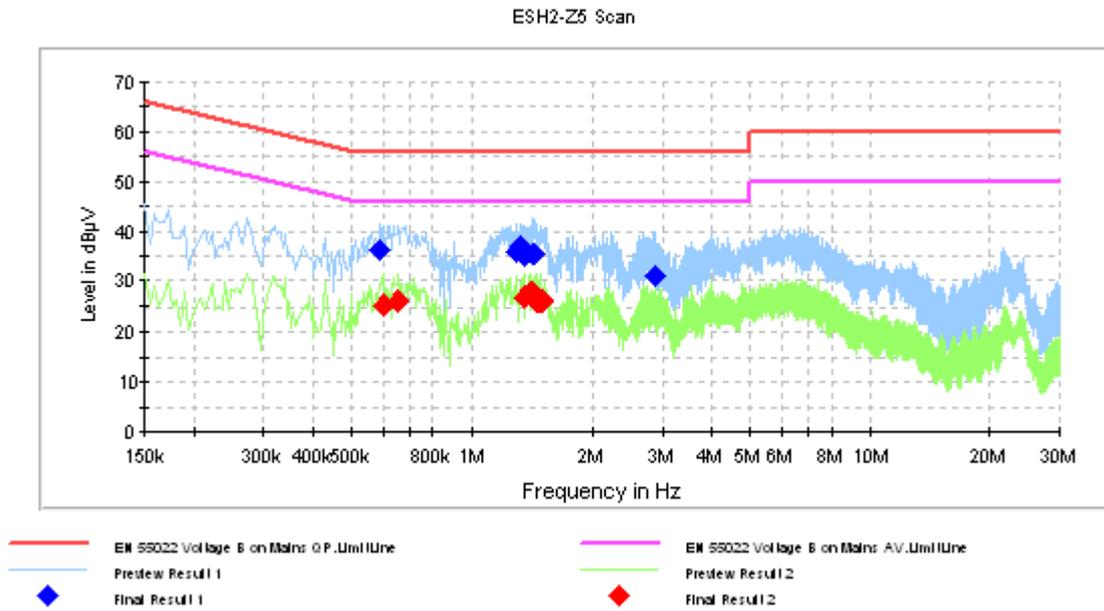


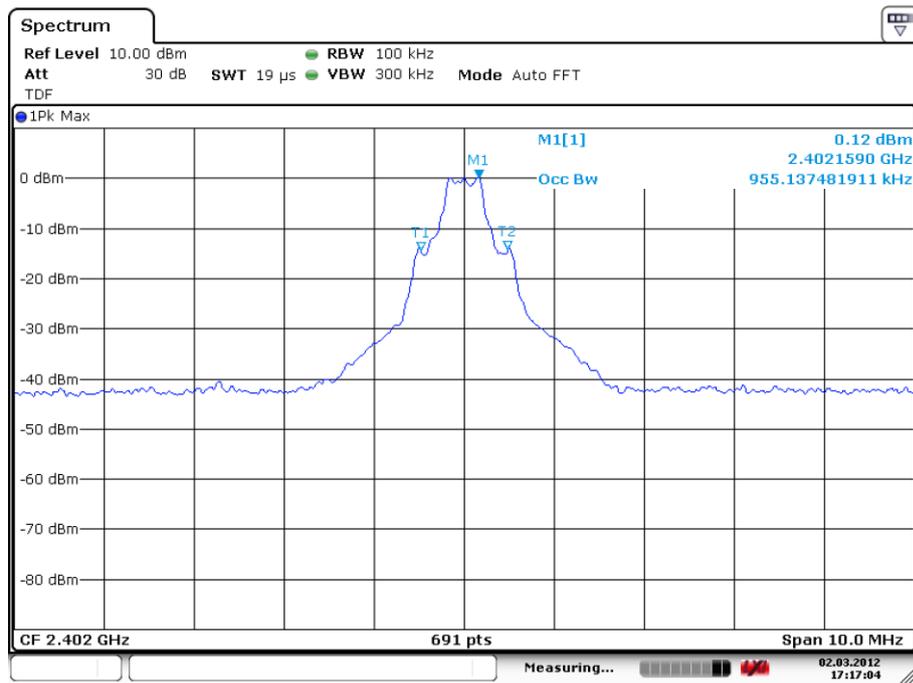
Fig. 65 AC Power line Conducted Emission (8DPSK, Ch39)

MEASUREMENT RESULT: " QuasiPeak "

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----|------|------------|-------------|--------------|
| 0.591000 | 36.1 | FLO | L1 | 10.1 | 19.9 | 56.0 |
| 1.302000 | 35.8 | FLO | L1 | 10.1 | 20.2 | 56.0 |
| 1.324500 | 37.0 | FLO | L1 | 10.1 | 19.0 | 56.0 |
| 1.360500 | 34.9 | FLO | N | 10.1 | 21.1 | 56.0 |
| 1.432500 | 35.3 | FLO | N | 10.1 | 20.7 | 56.0 |
| 2.859000 | 31.0 | FLO | N | 10.1 | 25.0 | 56.0 |

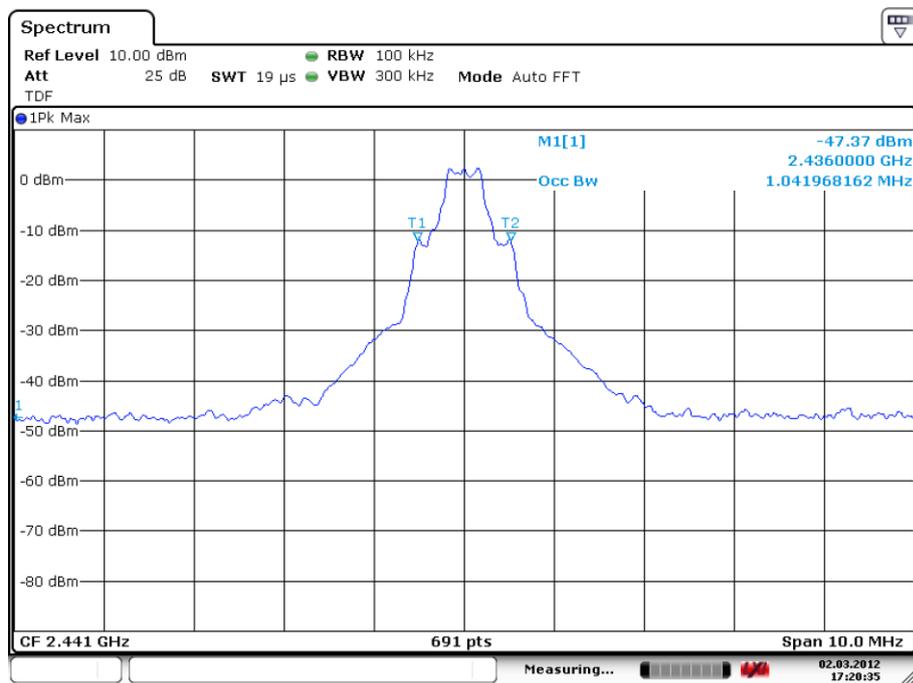
MEASUREMENT RESULT: " Average "

| Frequency (MHz) | CAverage (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-----------------|-----|------|------------|-------------|--------------|
| 0.604500 | 25.3 | FLO | N | 10.1 | 20.7 | 46.0 |
| 0.654000 | 26.3 | FLO | L1 | 10.0 | 19.7 | 46.0 |
| 1.360500 | 27.0 | FLO | L1 | 10.1 | 19.0 | 46.0 |
| 1.405500 | 27.6 | FLO | L1 | 10.1 | 18.4 | 46.0 |
| 1.455000 | 26.3 | FLO | N | 10.1 | 19.7 | 46.0 |
| 1.486500 | 26.0 | FLO | N | 10.1 | 20.0 | 46.0 |



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Fig. 66 Occupied Bandwidth (GFSK, Ch0)



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Fig. 67 Occupied Bandwidth (GFSK, Ch39)

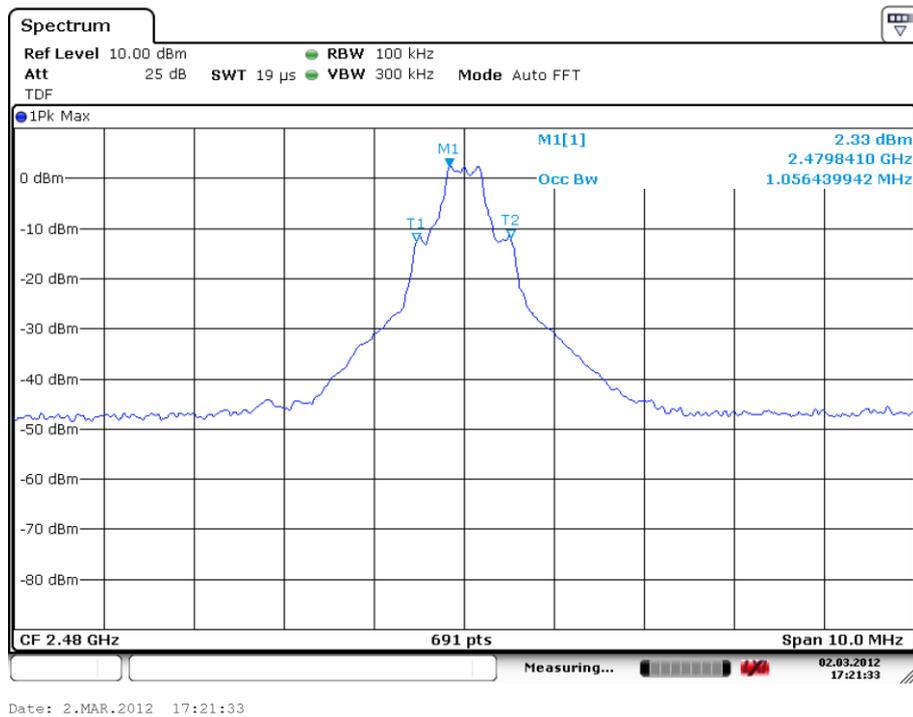


Fig. 68 Occupied Bandwidth (GFSK, Ch78)

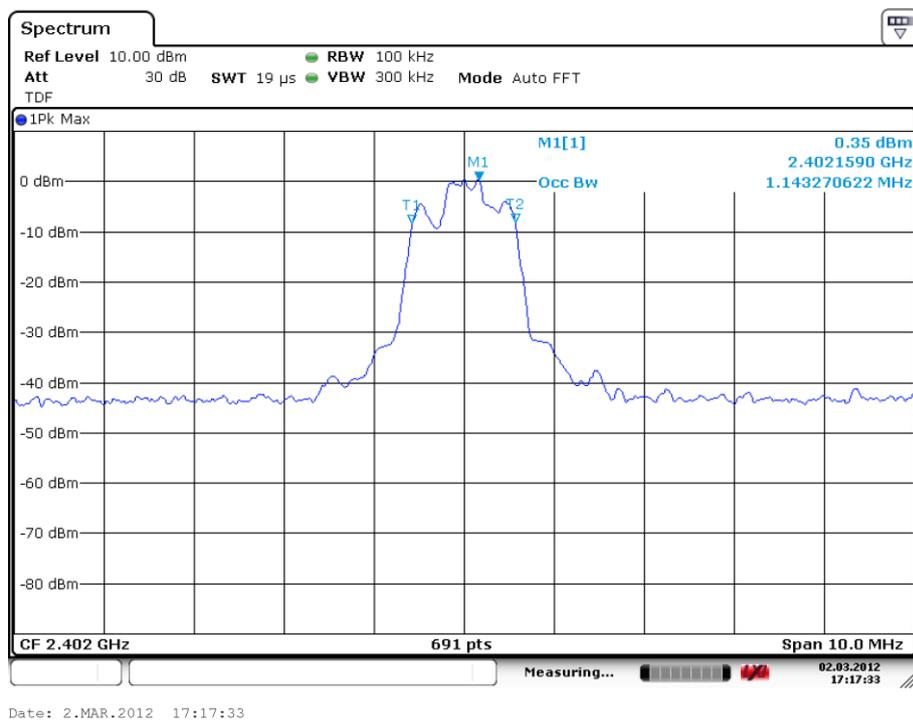


Fig. 69 Occupied Bandwidth ($\pi/4$ DQPSK, Ch0)

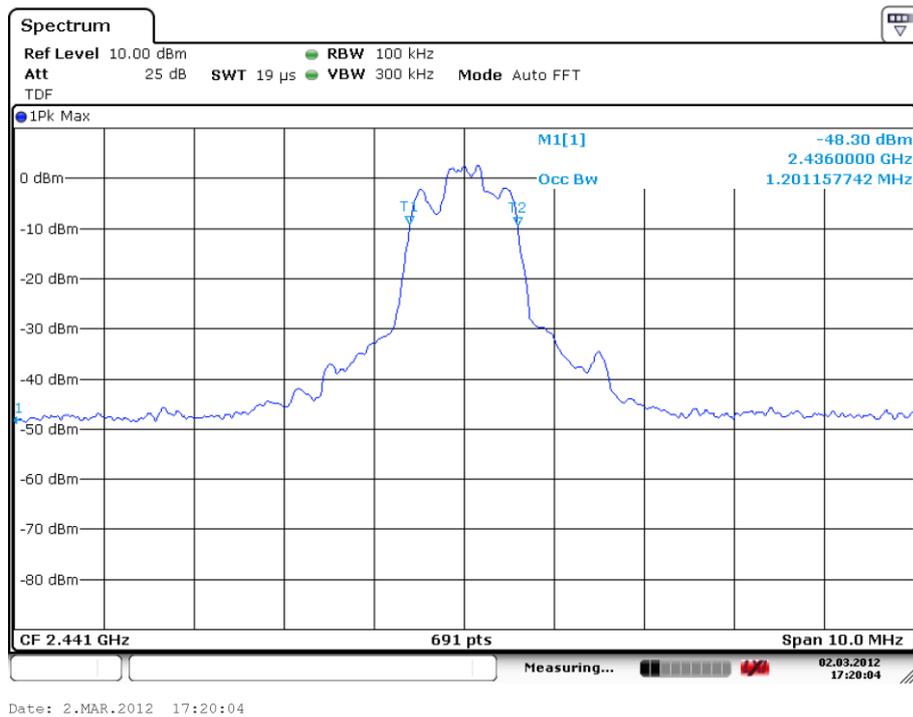


Fig. 70 Occupied Bandwidth ($\pi/4$ DQPSK, Ch39)

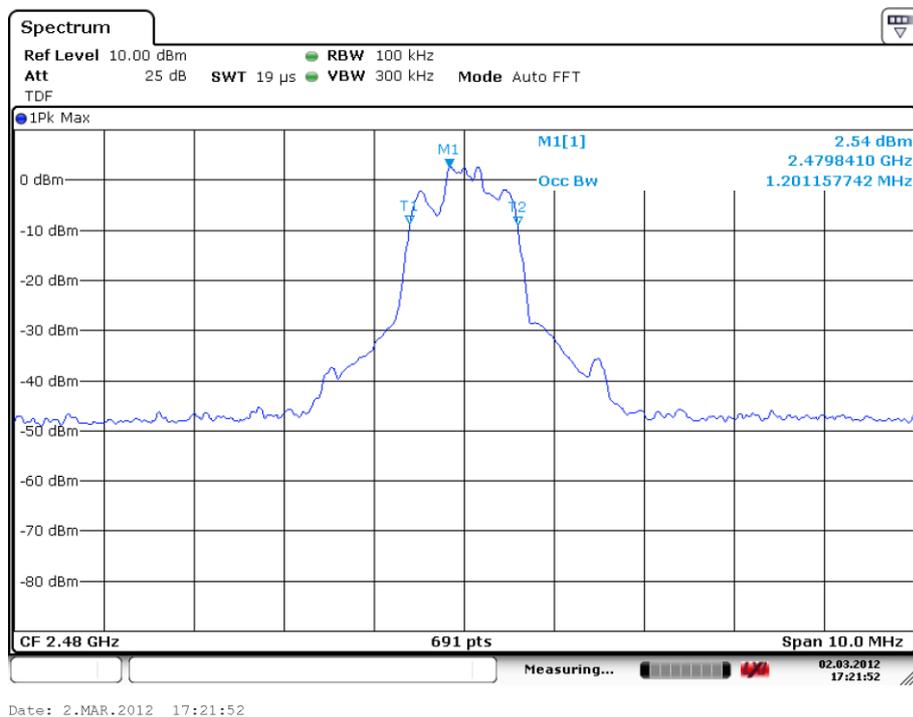
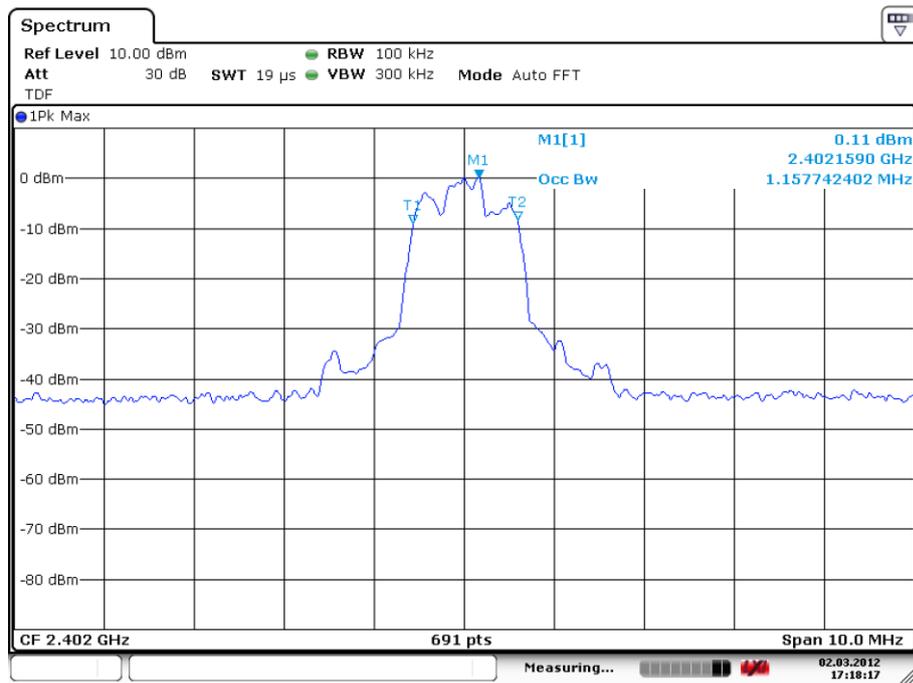
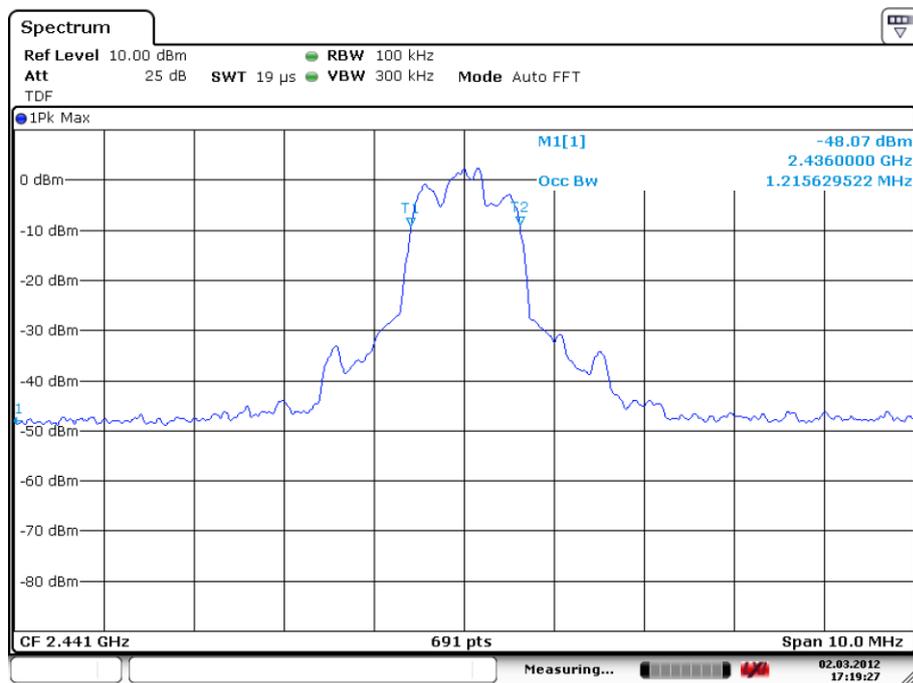


Fig. 71 Occupied Bandwidth ($\pi/4$ DQPSK, Ch78)



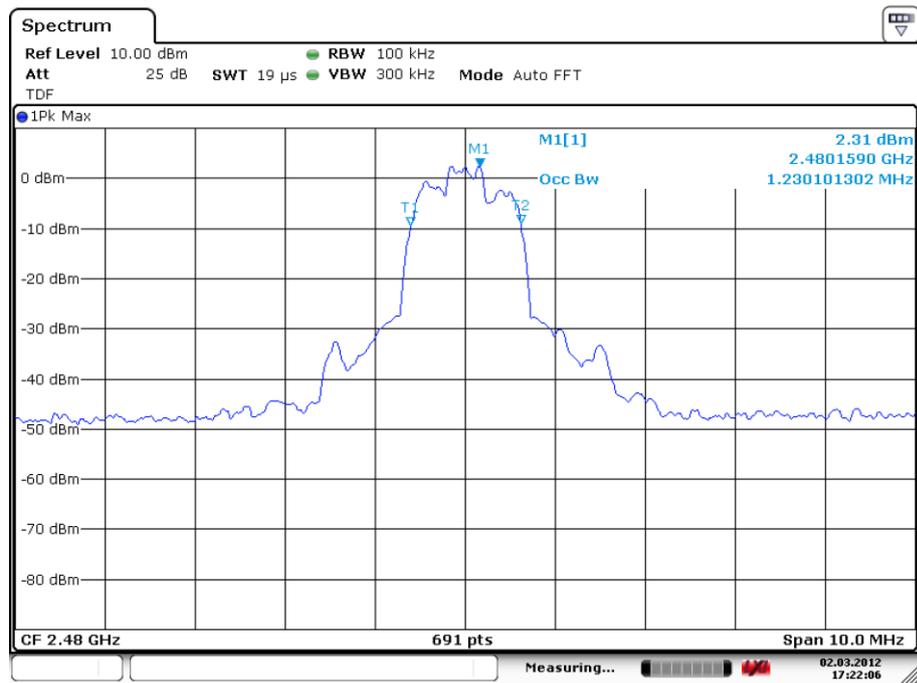
Date: 2.MAR.2012 17:18:17

Fig. 72 Occupied Bandwidth (8DPSK, Ch0)



Date: 2.MAR.2012 17:19:27

Fig. 73 Occupied Bandwidth (8DPSK, Ch39)



Date: 2.MAR.2012 17:22:06

Fig. 74 Occupied Bandwidth (8DPSK, Ch78)

ANNEX D: TEST LAYOUT**Layout of Radiated Spurious Emission Test**

Radiated spurious emission

***** END OF REPORT BODY *****