TEST REPORT

No. 2009TAR161

for

ZTE Corporation

GSM Dual-band GPRS Digital Mobile Phone

Model Name: ZTE-G N280

Marketing Name: ZTE-G N280

FCC ID:Q78-GN280

with

Hardware Version: E806_V1.3

Software Version: E806_GYT1D.01.2

Issued Date: 2009-11-11

Deutscher Akkreditierungs Rat

No. **DAT-P-114/01-01**

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.

Test Laboratory:

TMC Beijing, Telecommunication Metrology Center of Ministry of Industry and Information Technology

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1. Test Laboratory

1.1. Testing Location

Company Name:	TMC Beijing, Telecommunication Metrology Center of MIIT
Address:	No 52, Huayuan beilu, Haidian District, Beijing,P.R.China
Postal Code:	100191
Telephone:	00861062303288
Fax:	00861062304793

1.2. Testing Environment

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

1.3. Project data

Project Leader:	Zi Xiaogang
Testing Start Date:	2009-10-25
Testing End Date:	2009-11-11

1.4. Signature

Zi Xiaogang

(Prepared this test report)

Sun Xiangqian

(Reviewed this test report)

Lu Bingsong

Deputy Director of the laboratory

(Approved this test report)

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2. Client Information

2.1. Applicant Information

Company Name:	ZTE CORPORATION
Address /Post:	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China
City:	Shenzhen
Postal Code:	518057
Country:	China
Telephone:	0086 21 68897541
Fax:	0086 21 50801070

2.2. Manufacturer Information

Company Name:	ZTE CORPORATION
Address /Post:	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China
City:	Shenzhen
Postal Code:	518057
Country:	China
Telephone:	0086 21 68897541
Fax:	0086 21 50801070

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

3.1. About EUT

Description	GSM Dual-band GPRS Digital Mobile Phone
Model	ZTE-G N280
FCC ID	Q78-GN280
GSM Frequency Band	GSM850/PCS1900
Power Class	GSM850:4, PCS1900:1
GPRS Multislot Class	12
Extreme Temperature	-20/+55℃
Normal Voltage	3.7V
Extreme Low Voltage	3.5V
Extreme High Voltage	4.2V

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

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
N01	355731030000054	E806_V1.3	E806_GYT1D.01.2
N07	355731030000112	E806_V1.3	E806_GYT1D.01.2

*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	Battery	Li3708T42P3h644039	10090907041512290
AE2	Travel Adapter	STCA220501400USBA-C	100905290907811

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

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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.

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.	July 10, 2008 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
FCC Public Notice DA 00-705	Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems	March 2000

5. LABORATORY ENVIRONMENT

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

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

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

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

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

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

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Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Shielding Room2 (7.30 meters×4.00 meters×3.80 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 30 ℃
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

Abbreviations used in this clause:

P Pass
F Fail
NA not applicable
NM not measured

SUMMARY OF MEASUREMENT RESULTS	Sub-clause	Verdict
Peak Output Power - Conducted	15.247 (b)(1)	**P**
Frequency Band Edges	15.247 (d)	**P**
Conducted Emission	15.247 (d)	**P**
Radiated Emission	15.247, 15.205, 15.209	**P**
Time of Occupancy (Dwell Time)	15.247 (a) (1)(iii)	**P**
20dB Bandwidth	15.247 (a)(1)	**NA**
Carrier Frequency Separation	15.247 (a)(1)	**P**
Number of hopping channels	15.247 (a)(b)(iii)	**P**
AC Powerline Conducted Emission	15.107, 15.207	**P**

Please refer to **ANNEX A** for detail.

The measurement is made according to Public notice DA 00-705 and ANSI C63.4.

6.2. Statements

TMC has evaluated the test cases requested by the applicant /manufacturer 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

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7. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSU26	200030	Rohde & Schwarz	2010-06-18
2	Bluetooth Tester	CBT32	100649	Rohde & Schwarz	2010-01-22

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESI40	831564/002	Rohde & Schwarz	2010-02-12
2	BiLog Antenna	3142B	9908-1403	EMCO	2010-03-15
3	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2009-12-25
4	Universal Radio Communication Tester	CMU200	105948	Rohde & Schwarz	2010-08-14

Anechoic chamber

Fully anechoic chamber by Frankonia German.

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ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

The measurement is made according to Public notice DA 00-705 and ANSI C63.4.

1). Connect the EUT to the test system correctly.

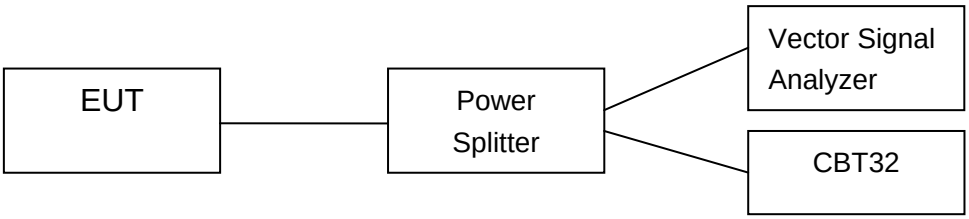
2). Set the EUT to the required work mode (Transmitter, receiver or transmitter & receiver).

3). Set the EUT to the required channel.

4). Set the EUT hopping mode (hopping or hopping off).

5). Set the spectrum analyzer to start measurement.

6). Record the values. Vector Signal Analyzer



A.1.2. Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 1MHz;

A.2. Peak Output Power - Conducted

Measurement Limit and Method:

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

The measurement is made according to Public notice DA 00-705 and ANSI C63.4.

Measurement Results:

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	-2.23	-1.94	-4.25	P

Conclusion: PASS

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A.3. Frequency Band Edges - Conducted

Measurement Limit:

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

The measurement is made according to Public notice DA 00-705 and ANSI C63.4.

Measurement Result:

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.1	-41.49	**P**
	Hopping ON	Fig.2	-40.65	**P**
78	Hopping OFF	Fig.3	-44.28	**P**
	Hopping ON	Fig.4	-45.23	**P**

See annex B for test graphs.

Conclusion: PASS

A.4. Conducted Emission

Measurement Limit:

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

The measurement is made according to Public notice DA 00-705 and ANSI C63.4

Measurement Results:

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	Center Frequency	Fig.5	**P**
	30 MHz ~ 1 GHz	Fig.6	**P**
	1 GHz ~ 26 GHz	Fig.7	**P**
Ch 39 2441 MHz	Center Frequency	Fig.8	**P**
	30 MHz ~ 1 GHz	Fig.9	**P**
	1 GHz ~ 26 GHz	Fig.10	**P**
Ch 78 2480 MHz	Center Frequency	Fig.11	**P**
	30 MHz ~ 1 GHz	Fig.12	**P**
	1 GHz ~ 26 GHz	Fig.13	**P**

See annex B for test graphs.

Conclusion: PASS

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A.5. 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)).

The measurement is made according to Public notice DA 00-705 and ANSI C63.4

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

Measurement Results:

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	30 MHz ~ 1 GHz	Fig.14	**P**
	1 GHz ~ 4 GHz	Fig.15	**P**
	4 GHz ~ 18 GHz	Fig.16	**P**
Ch 39 2441 MHz	30 MHz ~ 1 GHz	Fig.17	**P**
	1 GHz ~ 4 GHz	Fig.18	**P**
	4 GHz ~ 18 GHz	Fig.19	**P**
Ch 78 2480 MHz	30 MHz ~ 1 GHz	Fig.20	**P**
	1 GHz ~ 4 GHz	Fig.21	**P**
	4 GHz ~ 18 GHz	Fig.22	**P**
Power	2.45GHz~2.5GHz	Fig.23	**P**
For all channels	18 GHz ~ 26 GHz	Fig.24	**P**

See annex B for test graphs.

Conclusion: PASS

A.6. Time of Occupancy (Dwell Time)

Measurement Limit:

Standard	Limit (ms)
FCC 47 CFR Part 15.247(a) (1)(iii)	< 400

The measurement is made according to Public notice DA 00-705 and ANSI C63.4

Measurement Result:

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Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.25	128.71	P
		Fig.26		
	DH3	Fig.27	198.87	P
		Fig.28		
	DH5	Fig.29	196.86	P
		Fig.30		

See annex B for test graphs.

Conclusion: PASS

A.7. 20dB Bandwidth

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a)(1)	NA *

The measurement is made according to Public notice DA 00-705 and ANSI C63.4

* Comment: This test case is not required according to the latest FCC 47 CFR Part 15.247. But the test results are necessary for “carrier frequency separation” test case, in Annex A.8.

Measurement Results:

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.31	666.67	NA
39	Fig.32	663.46	NA
78	Fig.33	666.67	NA

See annex B for test graphs.

Conclusion: NA

A.8. Carrier Frequency Separation

Measurement Limit:

Standard	Limit(kHz)
FCC 47 CFR Part 15.247(a)(1)	over 25 kHz or (2/3) * 20dB bandwidth

The measurement is made according to Public notice DA 00-705 and ANSI C63.4

* Comment: This limit should be over 25 kHz or (2/3) * 20dB bandwidth, whichever is greater.

Measurement Result:

Channel	Carrier frequency separation (kHz)		Conclusion
39	Fig.34	1000.00	P

See annex B for test graphs.

Conclusion: PASS

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A.9. Number of Hopping Channels

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a) (1)(iii)	At least 15 non-overlapping channels

The measurement is made according to Public notice DA 00-705 and ANSI C63.4

Measurement Result:

Channel	Number of hopping channels		Conclusion
0~39	Fig.35	79	**P**
40~78	Fig.36		

See annex B for test graphs.

Conclusion: PASS

A.10. AC Powerline Conducted Emission

Test Condition

Voltage（V）	Frequency（Hz）
110	60

Measurement Result and limit:

Bluetooth (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)	Conclusion
		With Charger	
0.15 to 0.5	66 to 56	Fig.37	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.			

The measurement is made according to Public notice DA 00-705 and ANSI C63.4

See annex B for test graphs.

Conclusion: PASS

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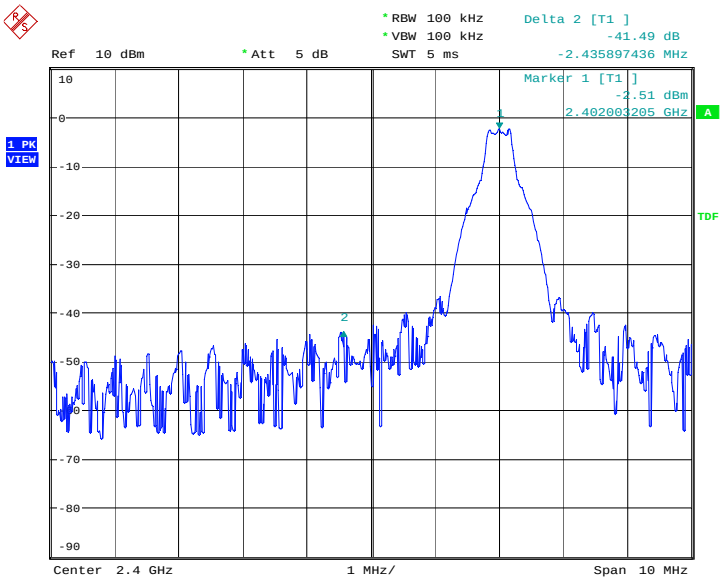
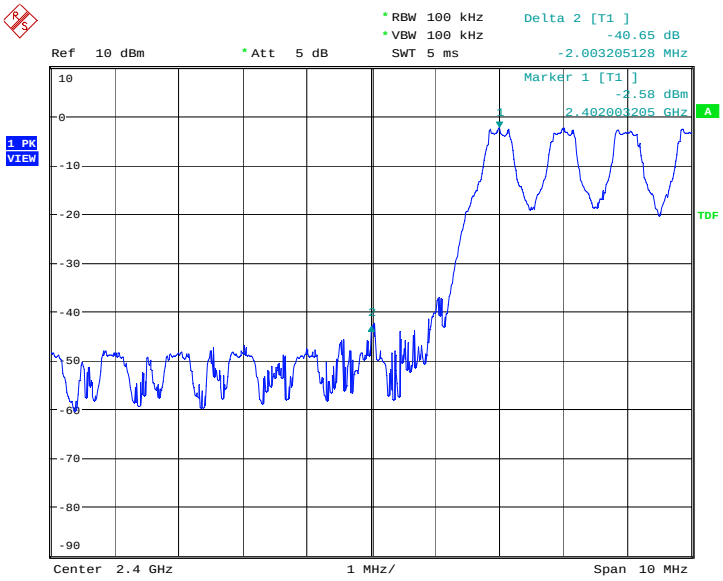
ANNEX B: TEST FIGURE LIST



Date: 27.OCT.2009 06:19:07

Fig. 1 Frequency Band Edges: Channel 0, Hopping Off



Date: 27.OCT.2009 06:24:26

Fig. 2 Frequency Band Edges: Channel 0, Hopping On

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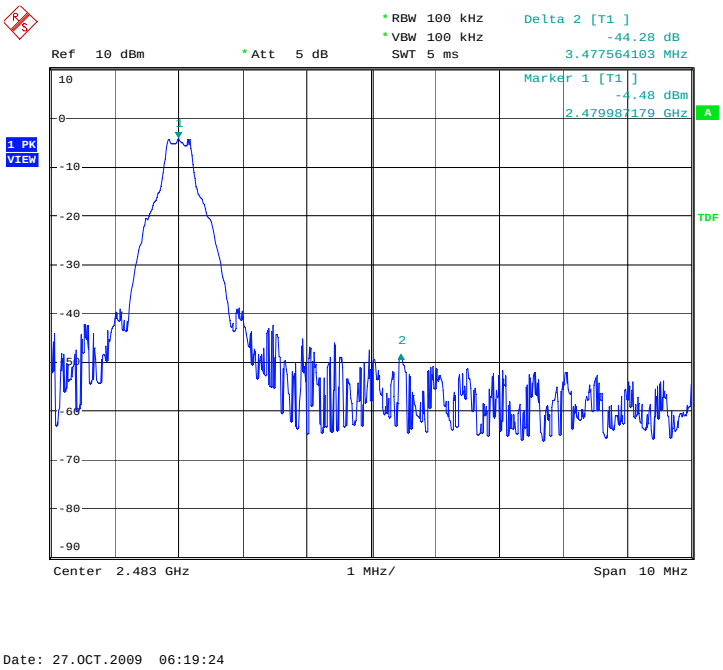

Fig. 3 Frequency Band Edges: Channel 78, Hopping Off

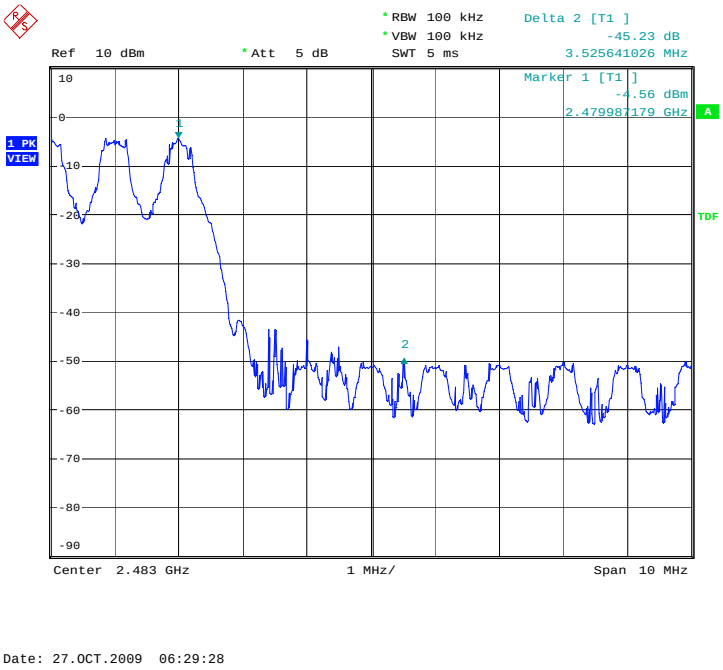

Fig. 4 Frequency Band Edges: Channel 78, Hopping On

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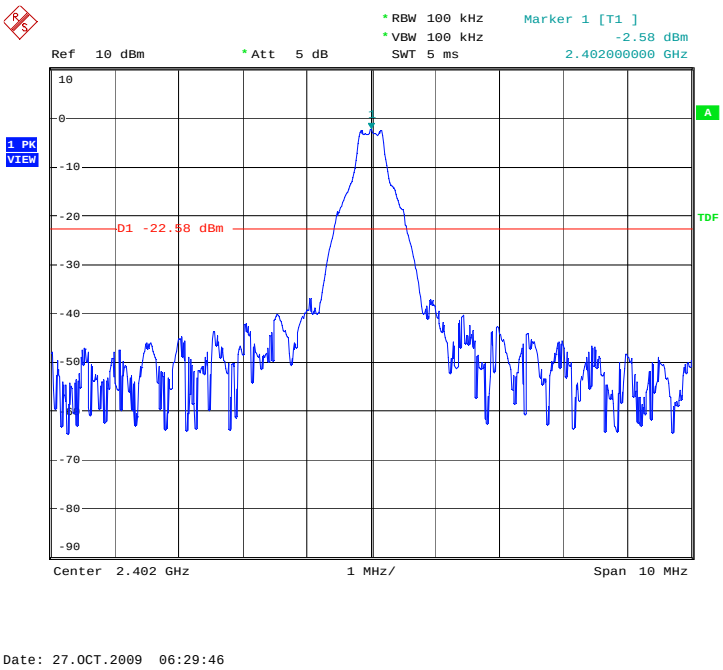

Fig. 5 Conducted spurious emission: Channel 0,2402MHz

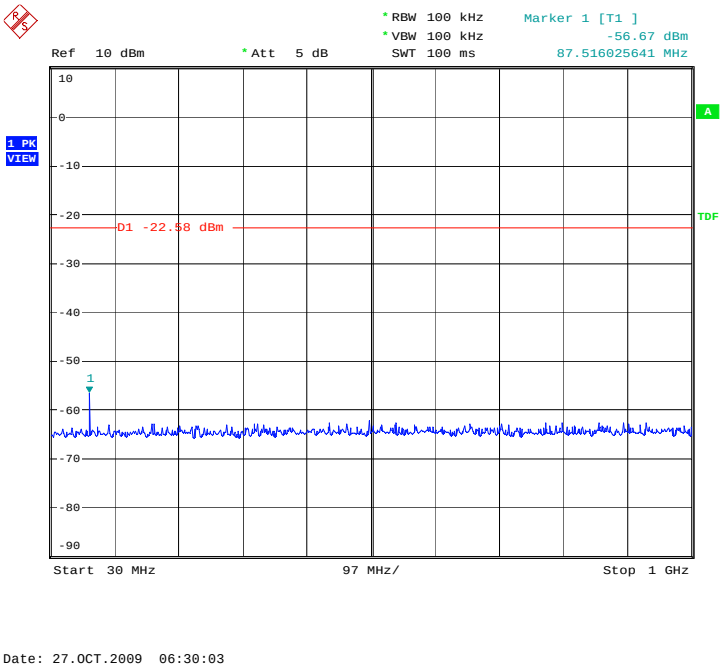

Fig. 6 Conducted spurious emission: Channel 0, 30MHz - 1GHz

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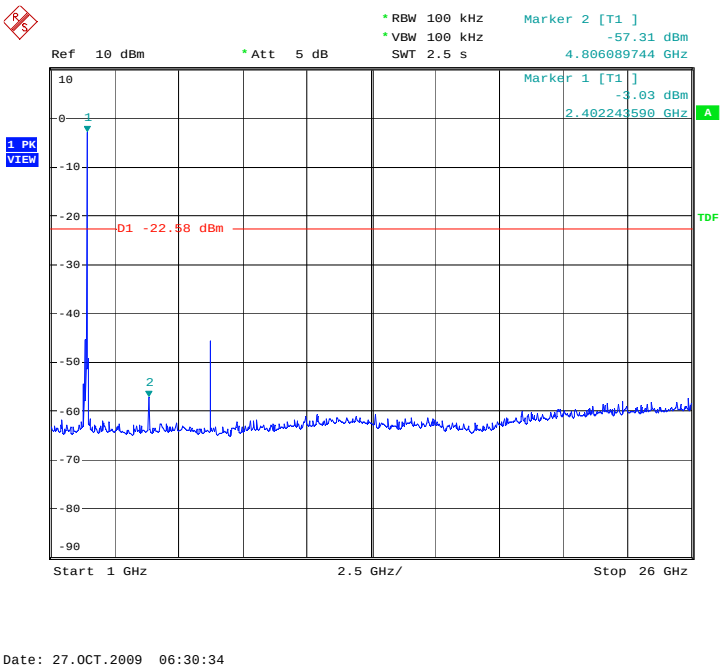

Fig. 7 Conducted spurious emission: Channel 0,1GHz - 26GHz

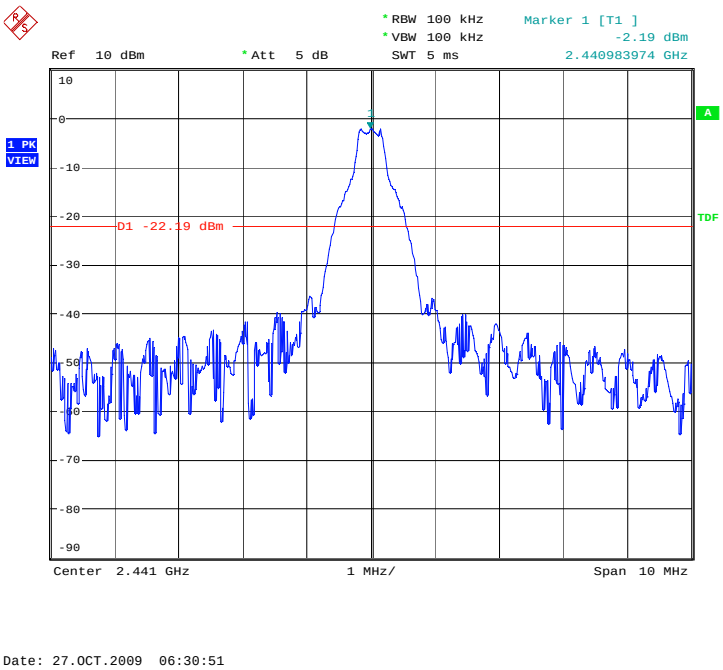

Fig. 8 Conducted spurious emission: Channel 39, 2441MHz

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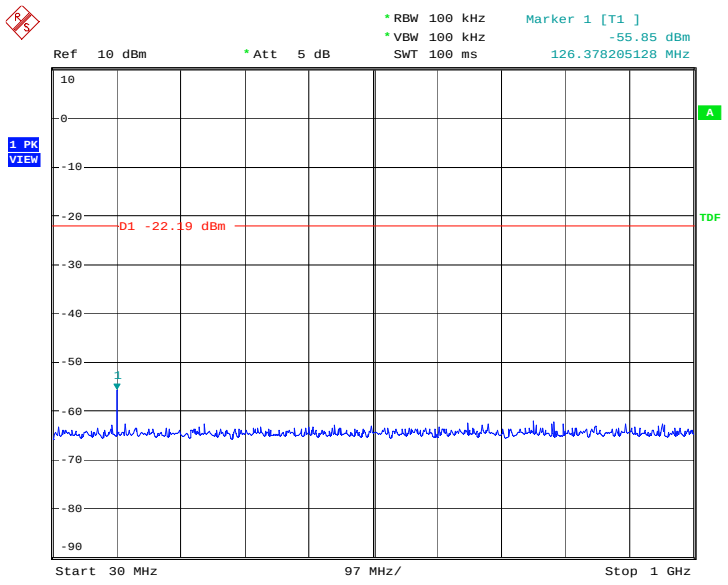
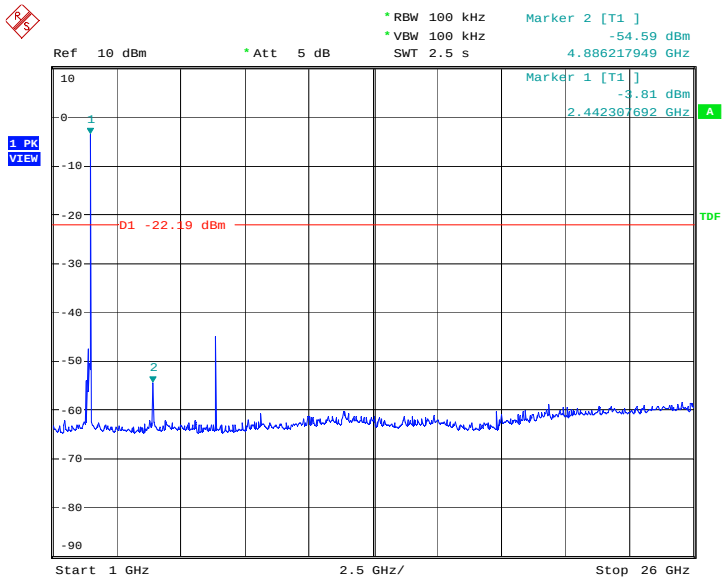


Date: 27.OCT.2009 06:31:07

Fig. 9 Conducted spurious emission: Channel 39, 30MHz - 1GHz



Date: 27.OCT.2009 06:31:39

Fig. 10 Conducted spurious emission: Channel 39, 1GHz – 26GHz

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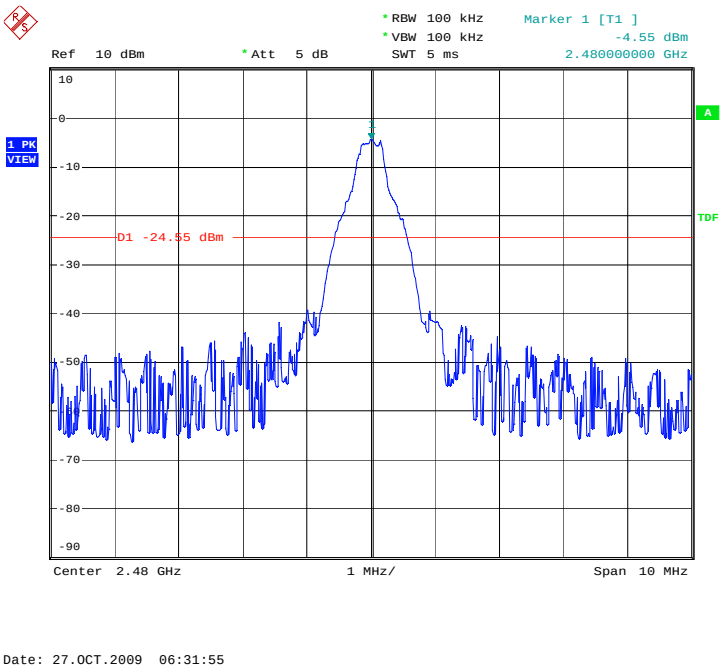

Fig. 11 Conducted spurious emission: Channel 78, 2480MHz

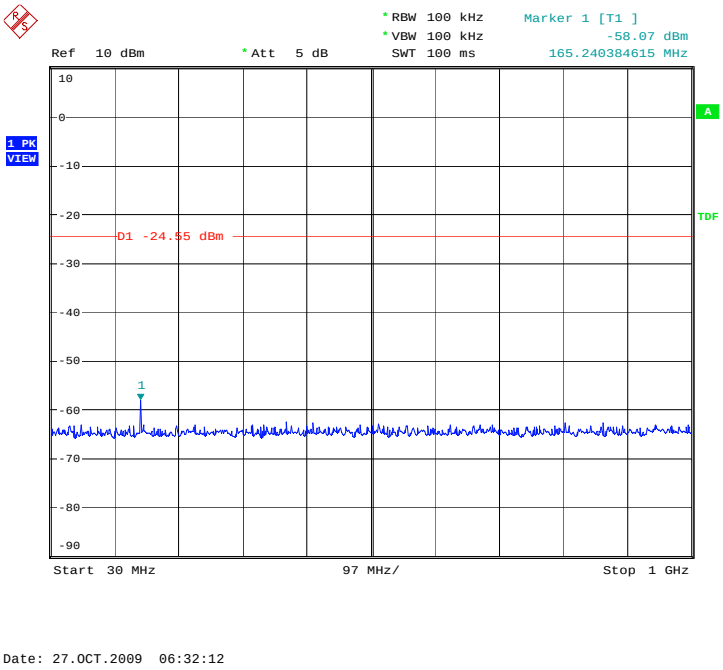

Fig. 12 Conducted spurious emission: Channel 78, 30MHz - 1GHz

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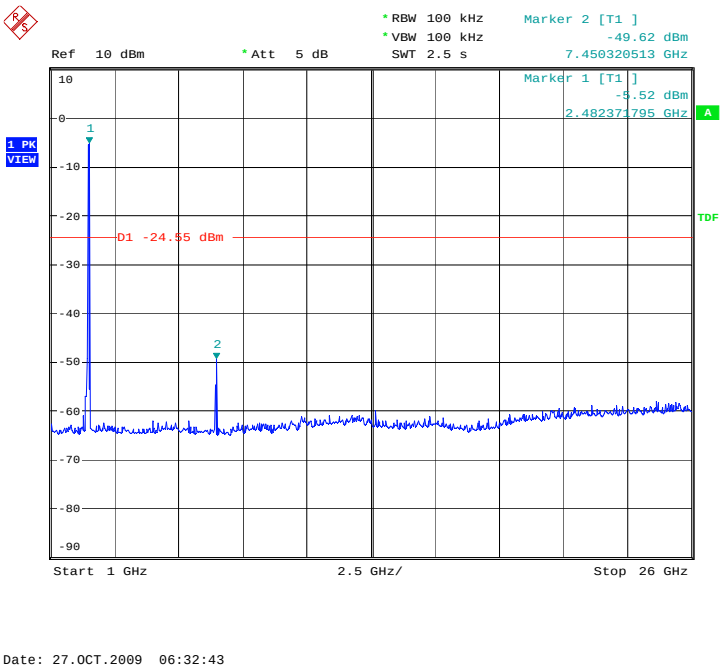

Fig. 13 Conducted spurious emission: Channel 78, 1GHz - 26GHz

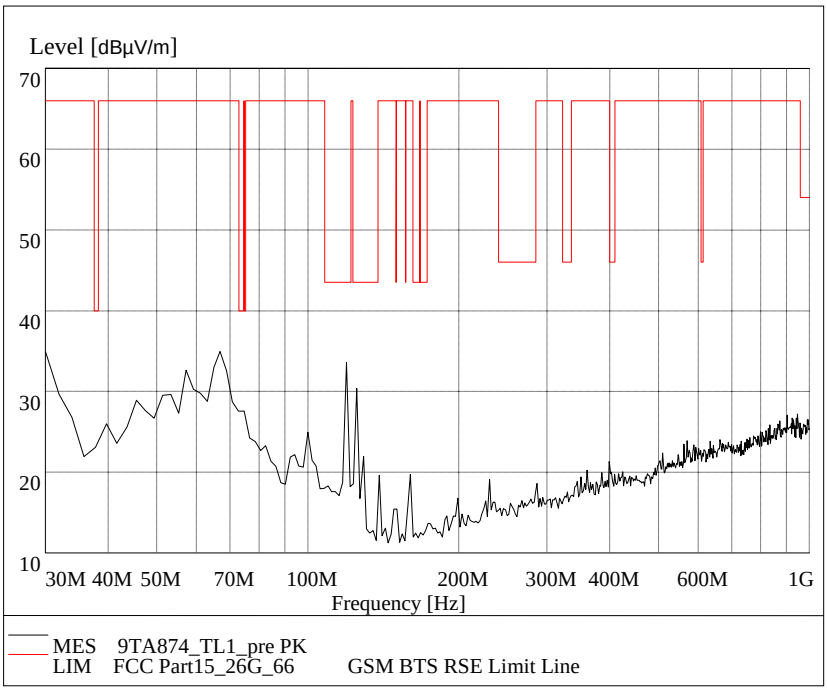

Fig. 14 Radiated emission: Channel 0, 30 MHz - 1 GHz

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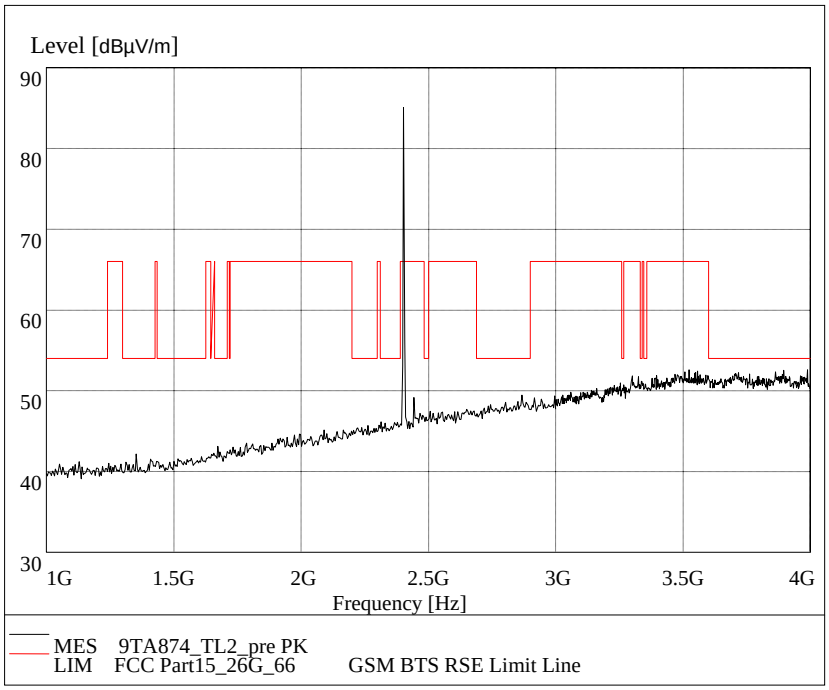

Fig. 15 Radiated emission: Channel 0, 1 GHz - 4 GHz

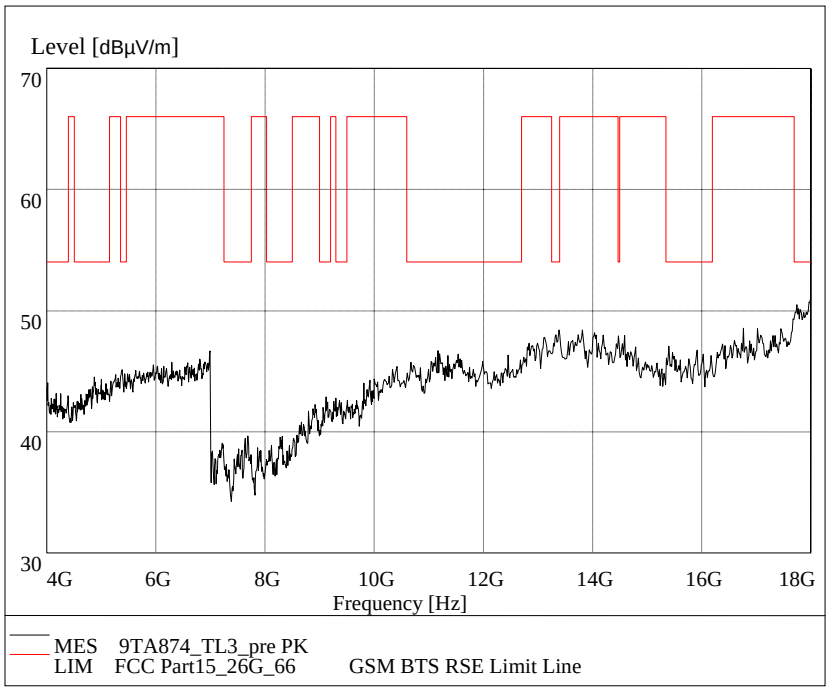

Fig. 16 Radiated emission: Channel 0, 4 GHz - 18 GHz

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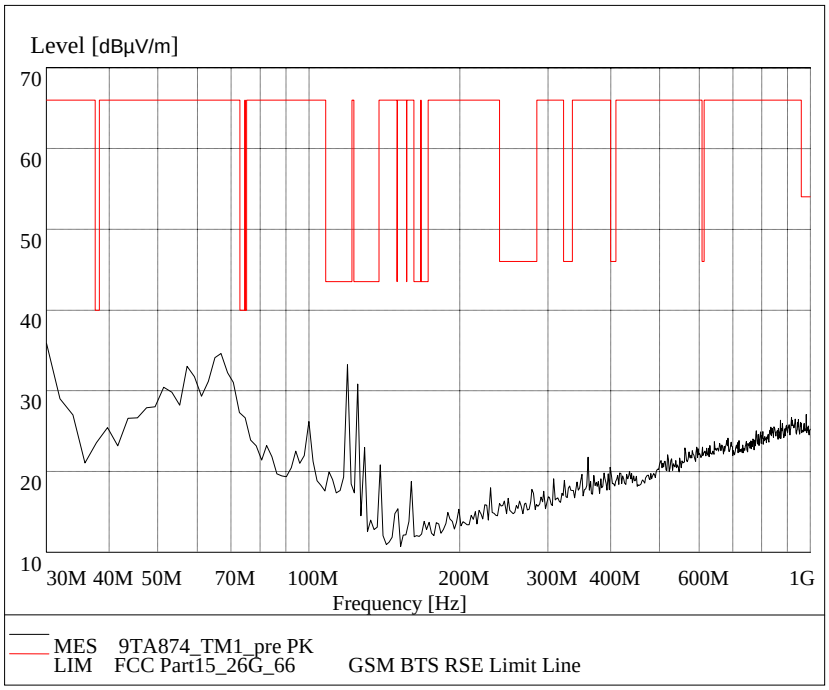

Fig. 17 Radiated emission: Channel 39, 30 MHz - 1 GHz

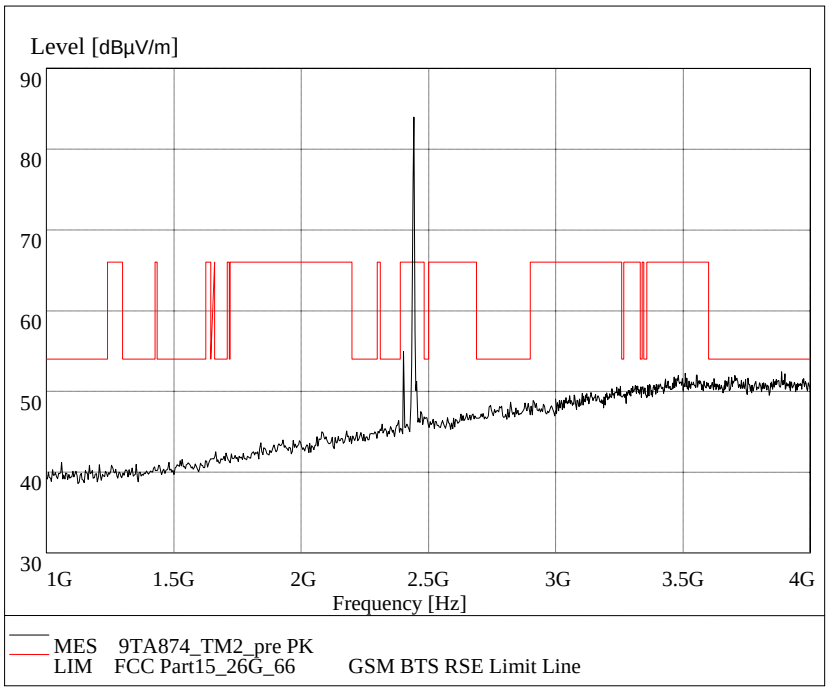

Fig. 18 Radiated emission: Channel 39, 1 GHz - 4 GHz

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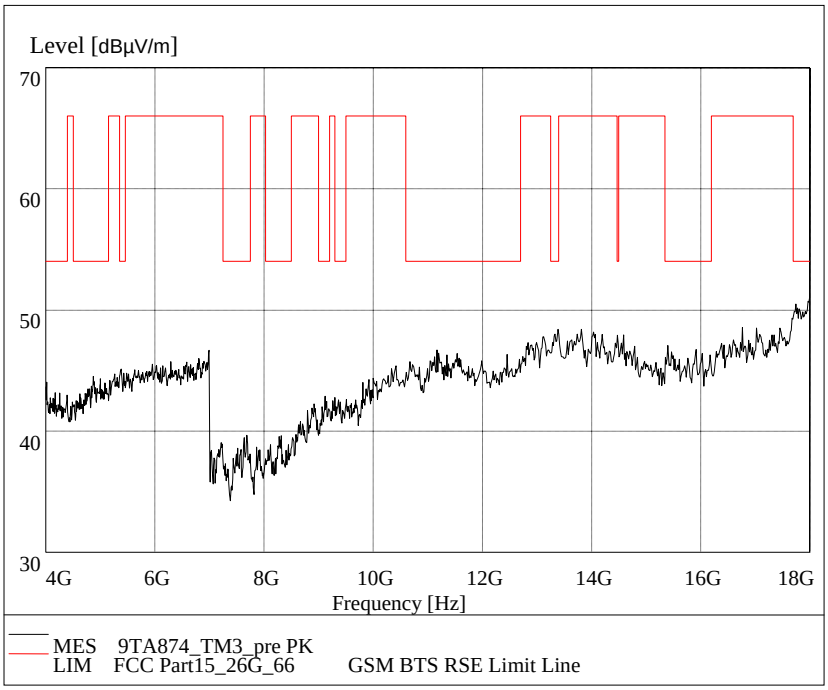

Fig. 19 Radiated emission: Channel 39, 4 GHz - 18 GHz

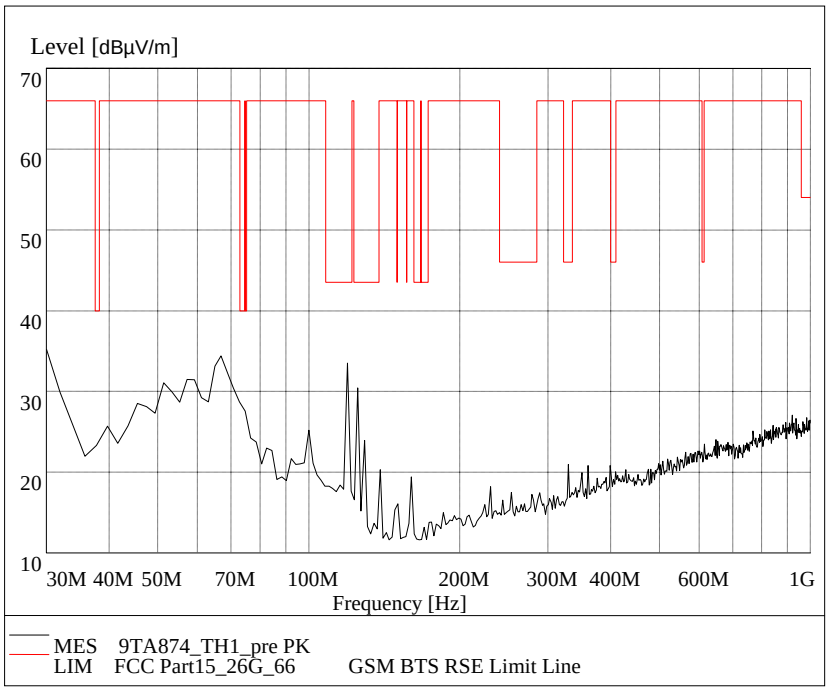

Fig. 20 Radiated emission: Channel 78, 30 MHz - 1 GHz

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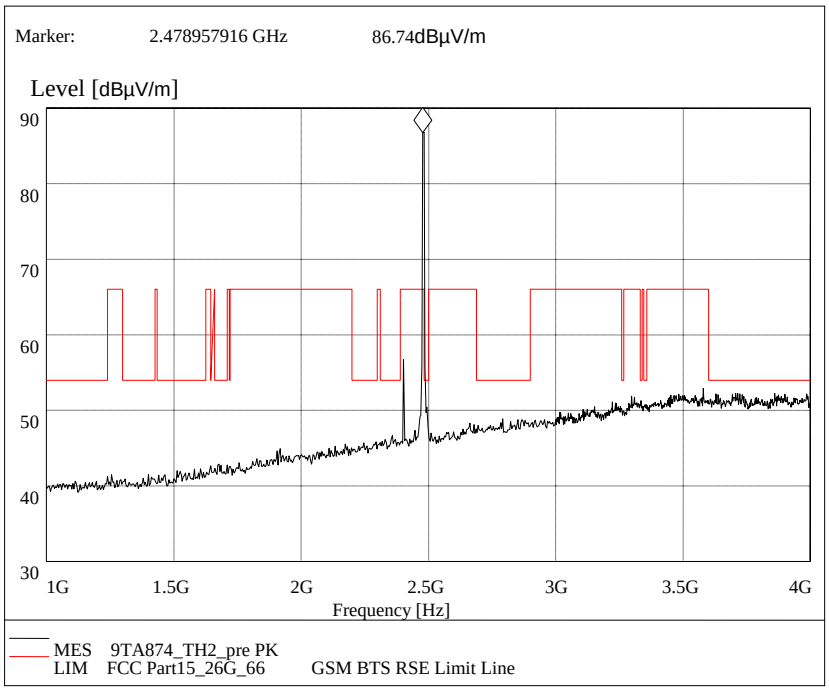

Fig. 21 Radiated emission: Channel 78, 1 GHz - 4 GHz

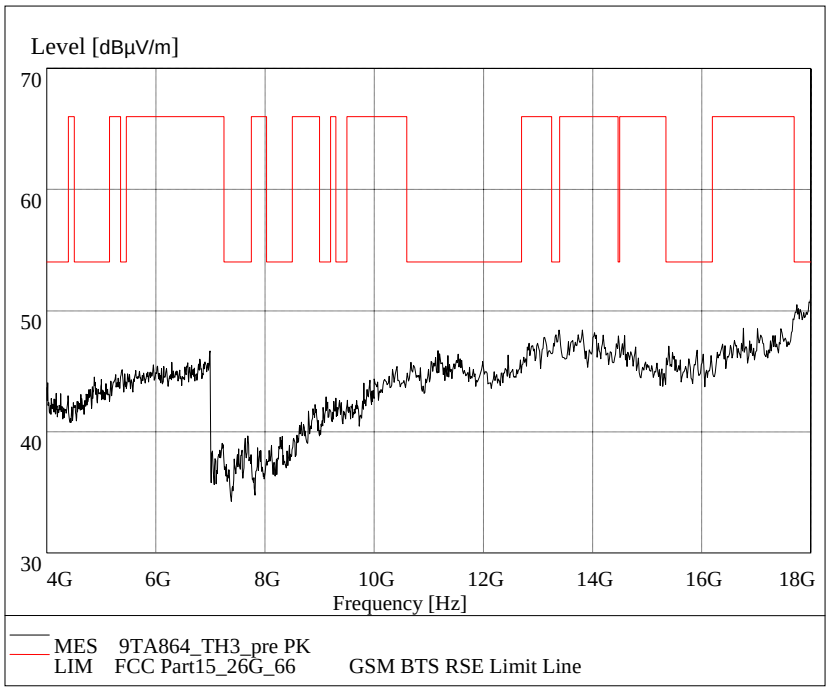

Fig. 22 Radiated emission: Channel 78, 4 GHz - 18 GHz

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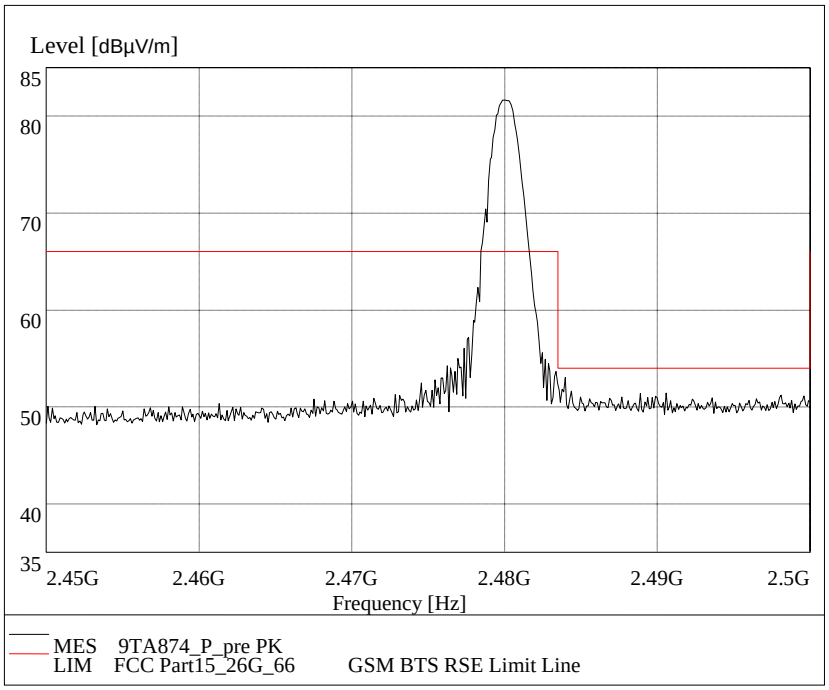

Fig. 23 Radiated emission (Power): 2.45GHz - 2.5GHz

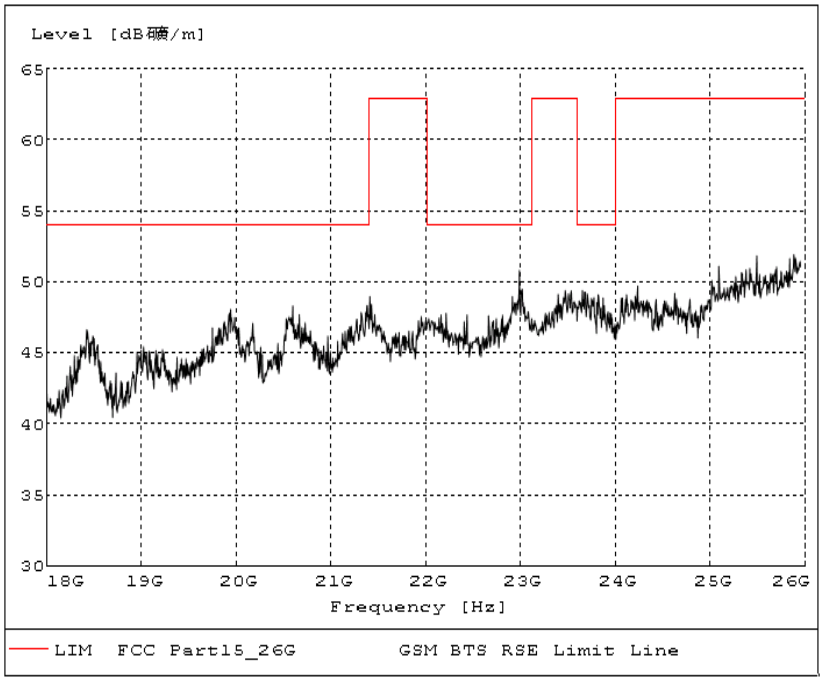

Fig. 24 Radiated emission: 18 GHz - 26 GHz

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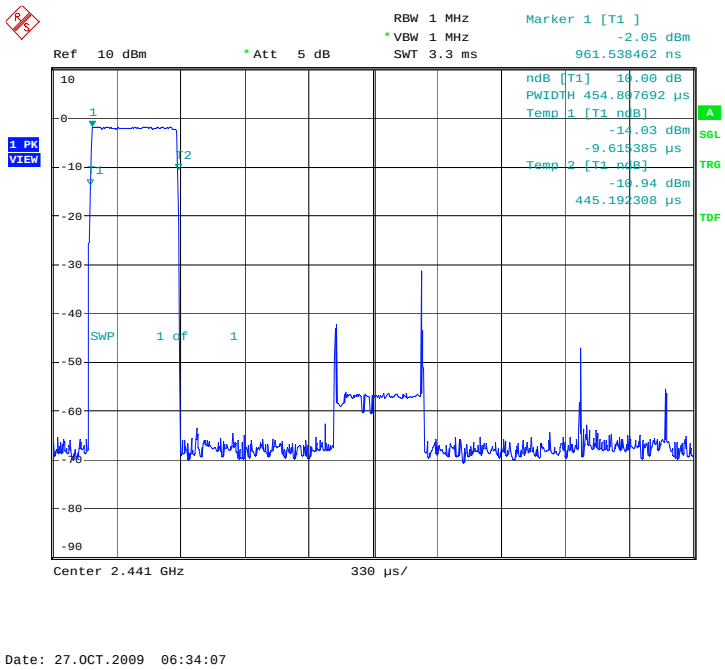

Fig. 25 Time of occupancy (Dwell Time): Channel 39, Packet DH1

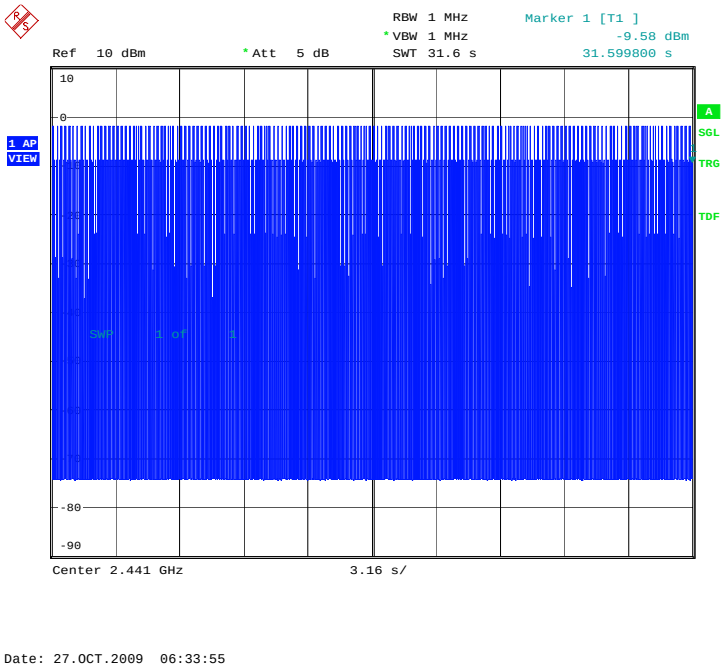

Fig. 26 Number of Transmissions Measurement:Channel 39,Packet DH1

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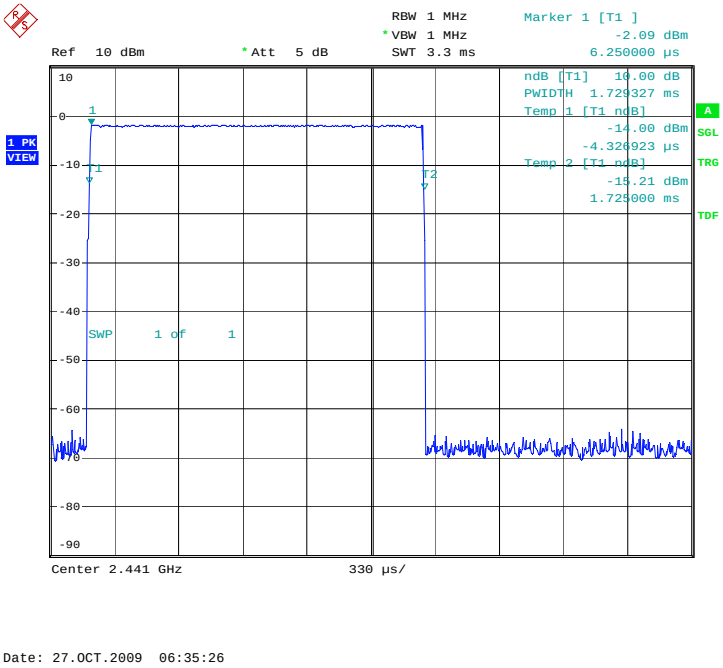

Fig. 27 Time of occupancy (Dwell Time): Channel 39, Packet DH3

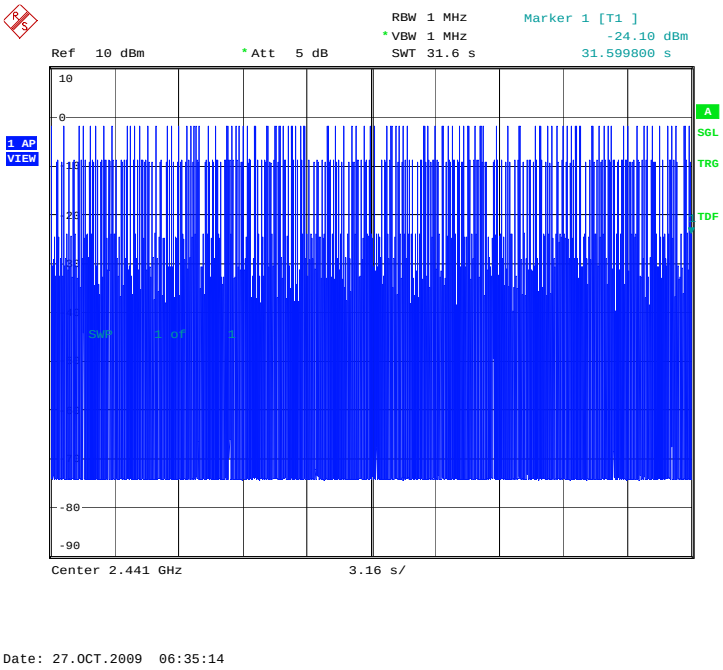

Fig. 28 Number of Transmissions Measurement:Channel 39,Packet DH3

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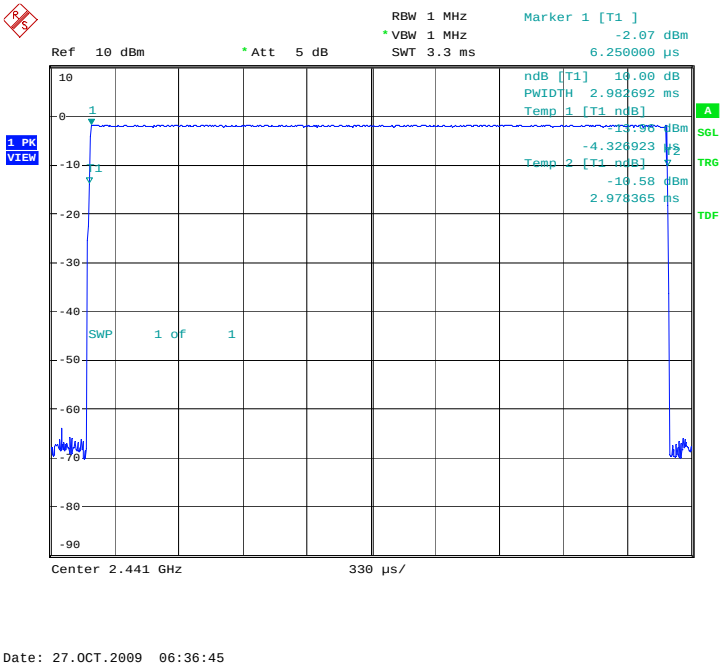

Fig. 29 Time of occupancy (Dwell Time): Channel 39, Packet DH5

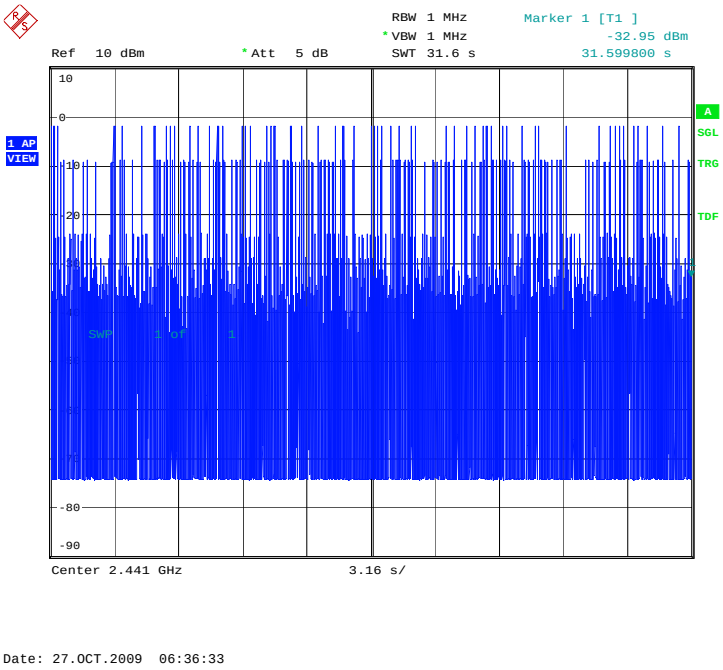

Fig. 30 Number of Transmissions Measurement:Channel 39,Packet DH5

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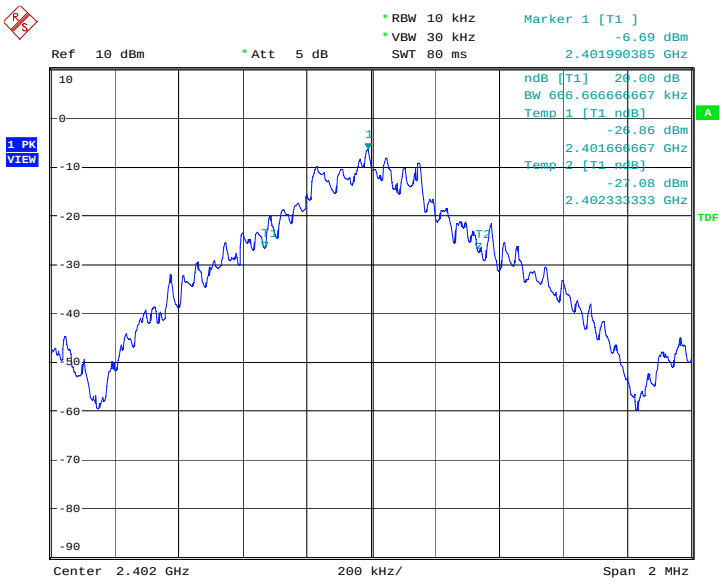

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Fig. 31 20dB Bandwidth: Channel 0

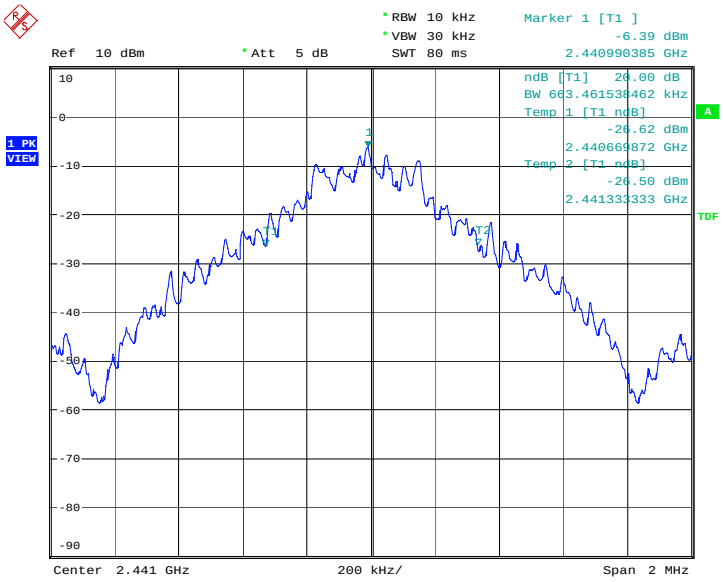

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Fig. 32 20dB Bandwidth: Channel 39

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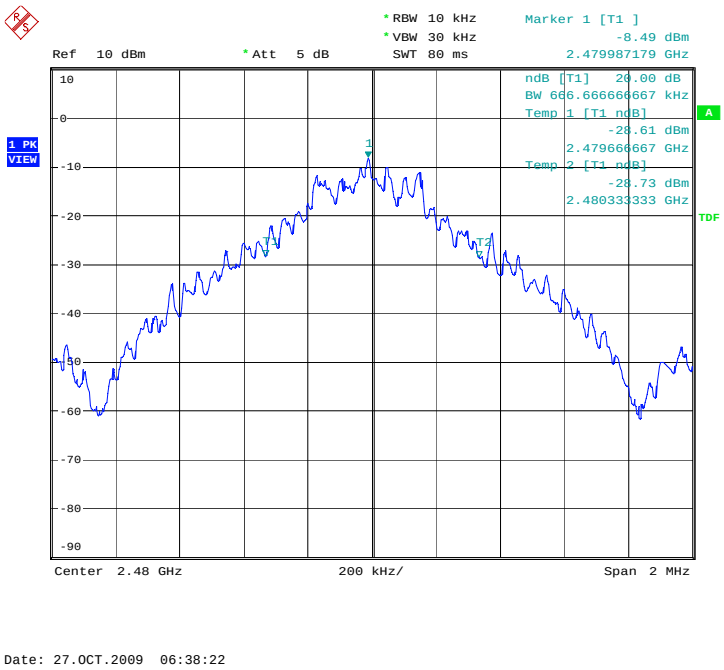

Fig. 33 20dB Bandwidth: Channel 78

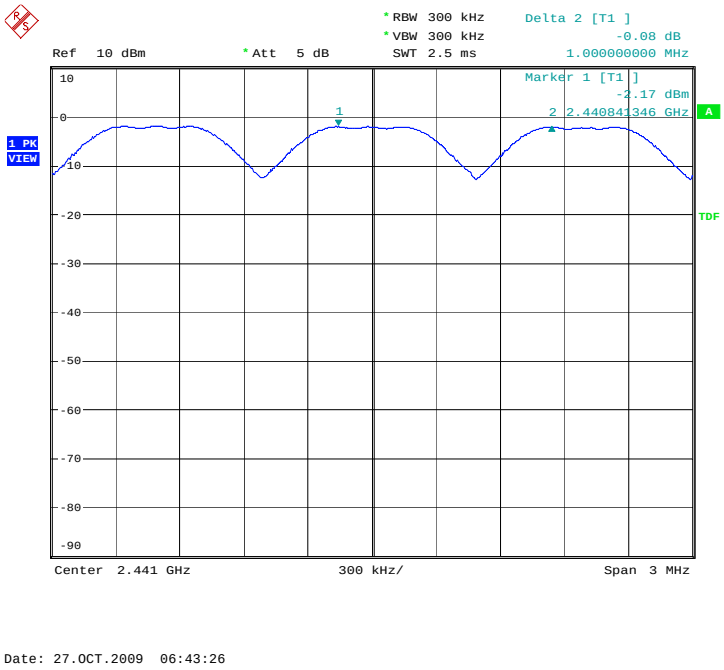

Fig. 34 Carrier frequency separation measurement: Channel 39

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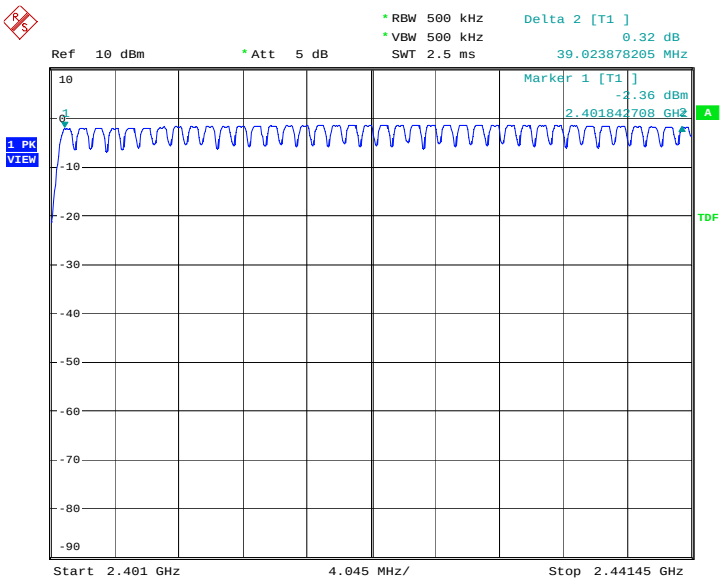

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Fig. 35 Number of hopping frequencies: Channel 0 - 39

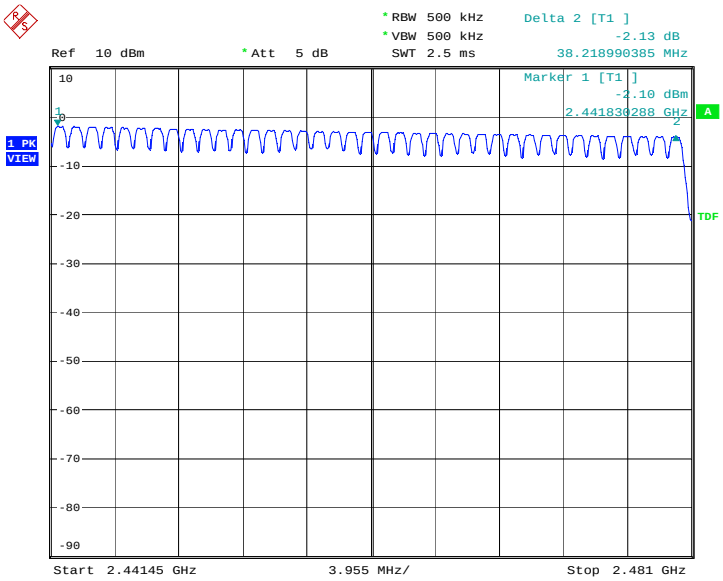

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Fig. 36 Number of hopping frequencies: Channel 40 - 78

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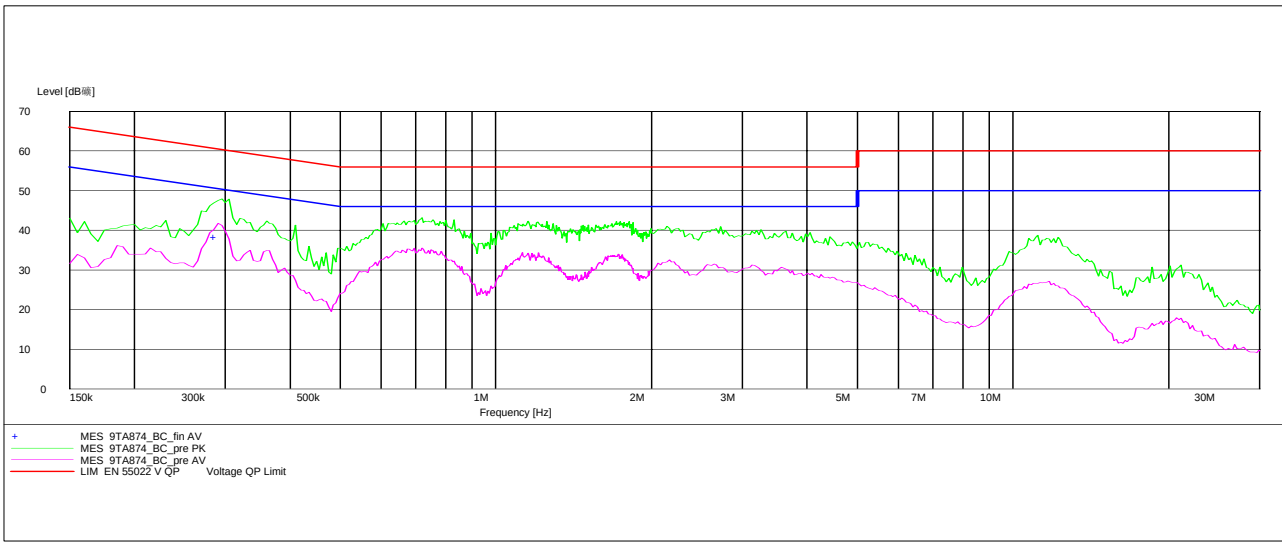

Fig. 37 AC Powerline Conducted Emission with charger

Measurement Result: "***9TA874_BC_fin AV***"

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line	PE
0.290000	38.30	10.1	51	12.2	N	GND

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