



TEST REPORT

No. 2010TAR128

for

Motorola, Inc. (Mobile Devices Business)

GSM/GPRS 850/1900 dual-band mobile phone

Marketing Name: WX295

FCC ID: IHDT56LZ1

with

Hardware Version: PIO

Software Version: V531

Issued Date: 2010-04-27



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

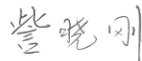
1.2. Testing Environment

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

1.3. Project data

Project Leader: Zi Xiaogang
Testing Start Date: 2010-04-19
Testing End Date: 2010-04-27

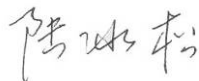
1.4. Signature



Zi Xiaogang
(Prepared this test report)



Sun Xiangqian
(Reviewed this test report)



Lu Bingsong
Deputy Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: Motorola, Inc. (Mobile Devices Business)
Address /Post: 600 N. US Highway 45 Libertyville, IL 60048-1286 U.S.A.
City: Libertyville
Postal Code: 60048-1286
Country: U.S.A
Telephone: +44 (0)1926 411371
Fax: +44 (0)1926 411371

2.2. Manufacturer Information

Company Name: TCT Mobile Limited
Address /Post: 4/F, South Building, No.2966, Jinke Road, Zhangjiang High-Tech Park,
Pudong, Shanghai, 201203, P.R.China
City: Shanghai
Postal Code: 201203
Country: China
Telephone: 0086-21-61460890
Fax: 0086-21-61460602

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

3.1. About EUT

Description	GSM/GPRS 850/1900 dual-band mobile phone
Marketing Name	WX295
FCC ID	IHDT56LZ1
Frequency Band	ISM 2400MHz~2483.5MHz
Type of Modulation	GFSK
Number of Channels	79
Power Supply	3.7V DC by Battery

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
N03	012244000003558	PIO	V531
N07	012244000003798	PIO	V531

*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	CAB3130010C1	/
AE2	Battery	CAB3130000C1	/
AE3	Travel Charger	CBA31B0AG0C1	/

*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.

	FCC CFR 47, Part 15, Subpart C:	
	15.205 Restricted bands of operation;	July 10,
FCC Part15	15.209 Radiated emission limits, general requirements;	2008
	15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.	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 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

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

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

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

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

Fully-anechoic chamber2 (7.30 meters×4.00 meters×3.80 meters) did not exceed following limits along the EMC testing:

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

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

Abbreviations used in this clause:

P Pass, The EUT complies with the essential requirements in the standard.

F Fail, The EUT does not comply with the essential requirements in the standard

NA Not Applicable, The test was not applicable

NP Not Performed, The test was not performed by TMC

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

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	2011-02-03

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESI40	831564/002	Rohde & Schwarz	2011-02-11
2	EMI Antenna	VULB 9163	9163 301	Schwarzbeck	2010-04-30
3	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2010-12-24
4	Dual-Ridge Waveguide Horn Antenna	3116	2663	EMCO	2011-03-01
5	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2011-03-01
6	Universal Radio Communication Tester	CMU200	105948	Rohde & Schwarz	2010-08-14

Anechoic chamber

Fully anechoic chamber by Frankonia German.

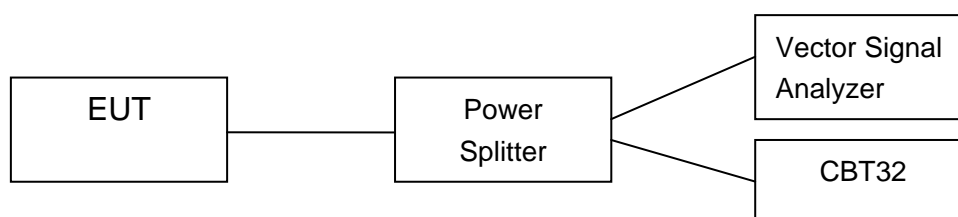
ANNEX A: MEASUREMENT RESULTS

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.

Test Condition

Hopping Mode	RBW	VBW	Span	Sweptime
Hopping OFF	1MHz	1MHz	5MHz	2.5ms

Measurement Results:

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	-4.50	-3.61	-1.09	P

Conclusion: PASS

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	-41.05	P
	Hopping ON	Fig.2	-41.06	P
78	Hopping OFF	Fig.3	-42.84	P
	Hopping ON	Fig.4	-45.16	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

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

Test Condition

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:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable los.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{\text{Rpl}}$$

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

Ch 0

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{Mea} (dBuV/m)	Polarity
2406.814	67.98	8.8	59.18	VERTICAL
2398.798	64.28	8.7	55.58	VERTICAL
2482.966	55.64	9.4	46.24	VERTICAL

2394.79	55.47	8.7	46.77	VERTICAL
2478.958	55.42	9.1	46.32	VERTICAL
2414.83	53.98	8.8	45.18	VERTICAL

Ch 39

Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{Mea} (dBuV/m)	Polarity
2438.878	82.07	8.6	73.47	VERTICAL
2446.894	62.73	8.6	54.13	VERTICAL
2434.87	60.34	8.6	51.74	VERTICAL
2450.902	56.65	8.8	47.85	VERTICAL
2430.862	55.57	8.6	46.97	VERTICAL
2418.838	53.38	8.8	44.58	HORIZONTAL

Ch 78

Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{Mea} (dBuV/m)	Polarity
2482.966	92.15	9.4	82.75	VERTICAL
2426.854	66.13	8.7	57.43	VERTICAL
2474.95	62.98	9.1	53.88	VERTICAL
2402.806	62.77	8.8	53.97	VERTICAL
2486.974	62.47	9.4	53.07	VERTICAL
2410.822	57.98	8.8	49.18	VERTICAL

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:

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.25	124.62	P
		Fig.26		
	DH3	Fig.27	179.30	P
		Fig.28		
	DH5	Fig.29	184.93	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	701.92	NA
78	Fig.33	705.13	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 $(2/3) * 20\text{dB bandwidth}$

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

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

Measurement Result:

Channel	Carrier frequency separation (kHz)		Conclusion
39	Fig.34	1000	P

See annex B for test graphs.

Conclusion: PASS

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 (dB μ V)	Result (dB μ V)	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.

Bluetooth (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
		With Charger 1	
0.15 to 0.5	56 to 46	Fig.37	P
0.5 to 5	46		
5 to 30	50		

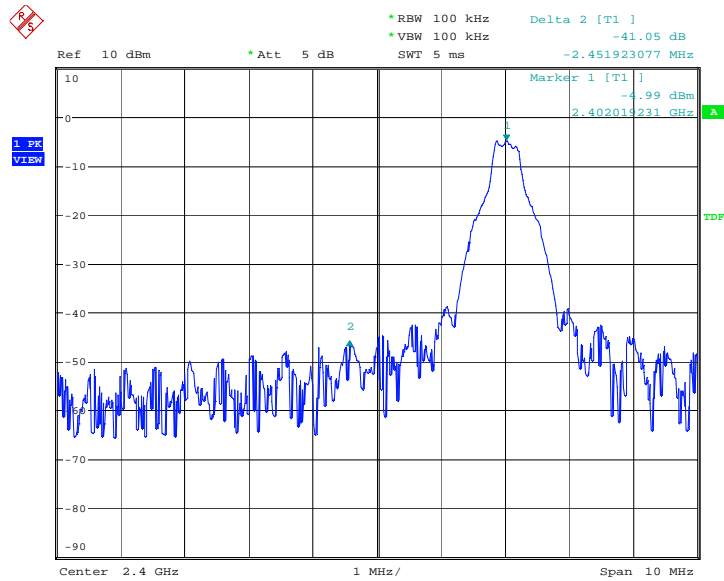
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

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

See annex B for test graphs.

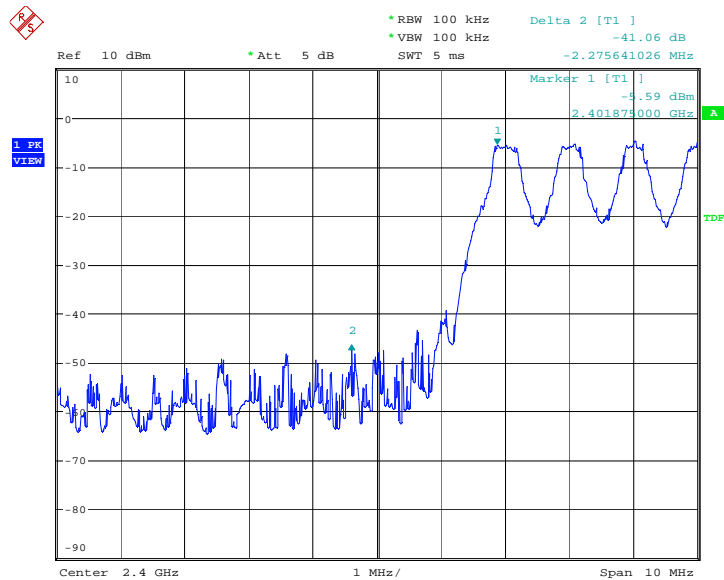
Conclusion: PASS

ANNEX B: TEST FIGURE LIST



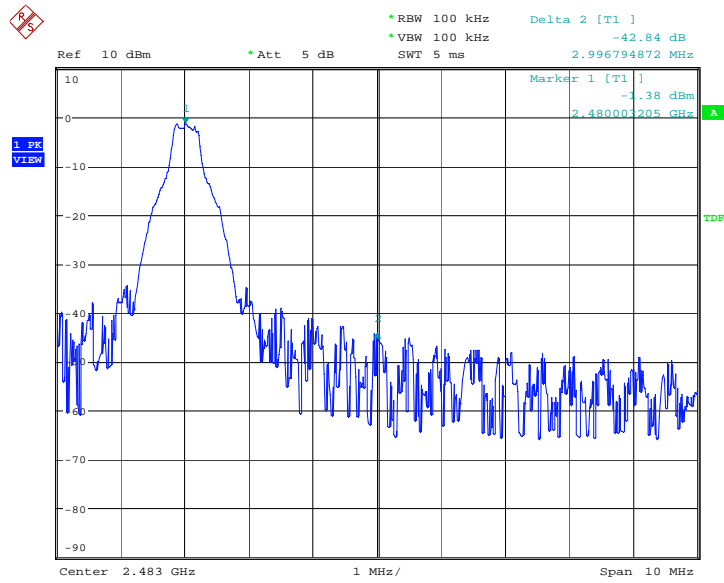
Date: 21.APR.2010 03:07:22

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



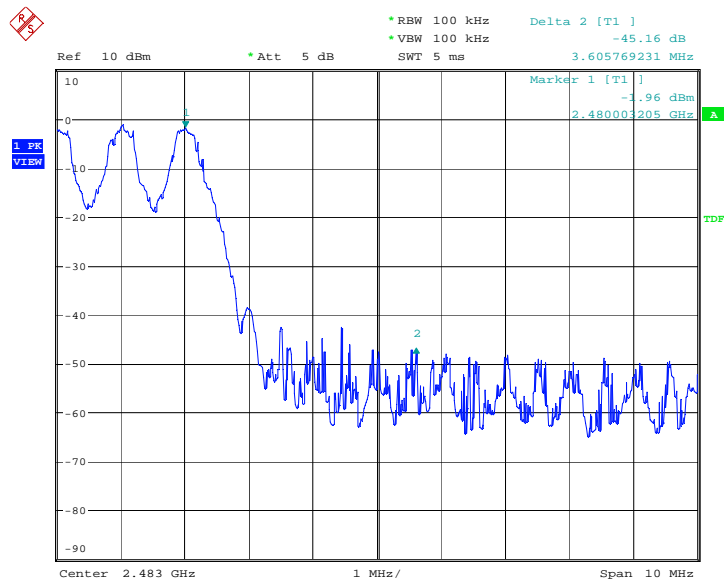
Date: 21.APR.2010 03:09:41

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



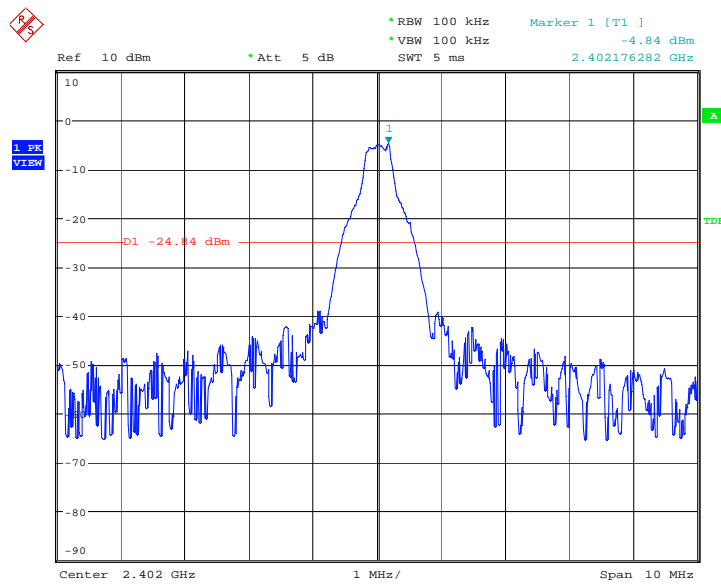
Date: 21.APR.2010 03:07:39

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



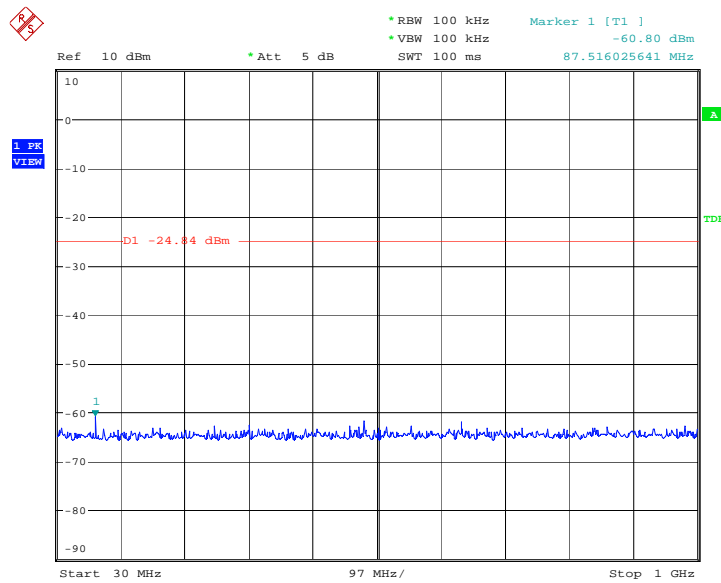
Date: 21.APR.2010 03:11:43

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



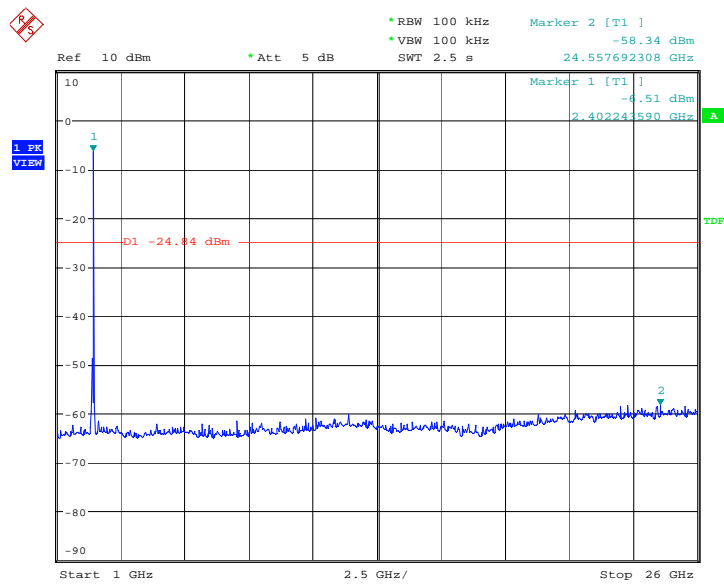
Date: 21.APR.2010 03:12:01

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



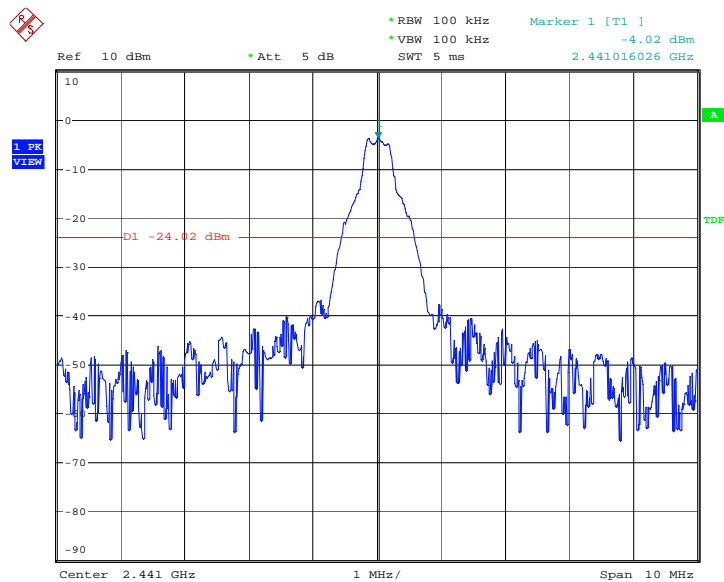
Date: 21.APR.2010 03:12:18

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



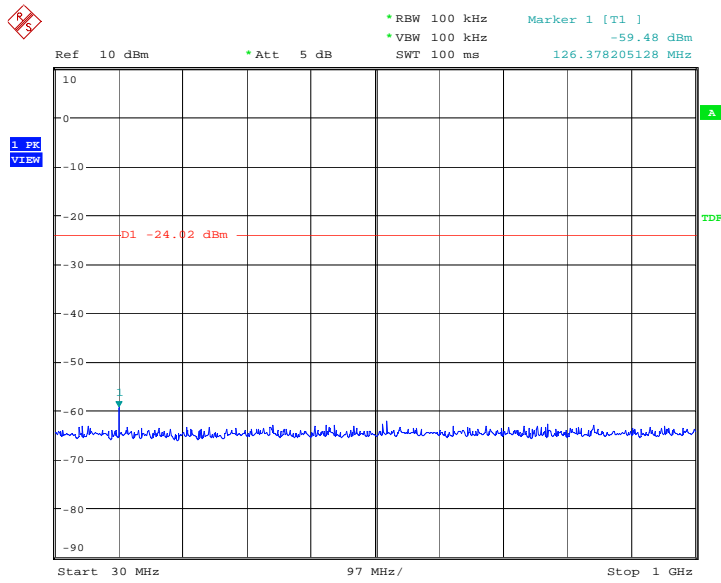
Date: 21.APR.2010 03:12:49

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



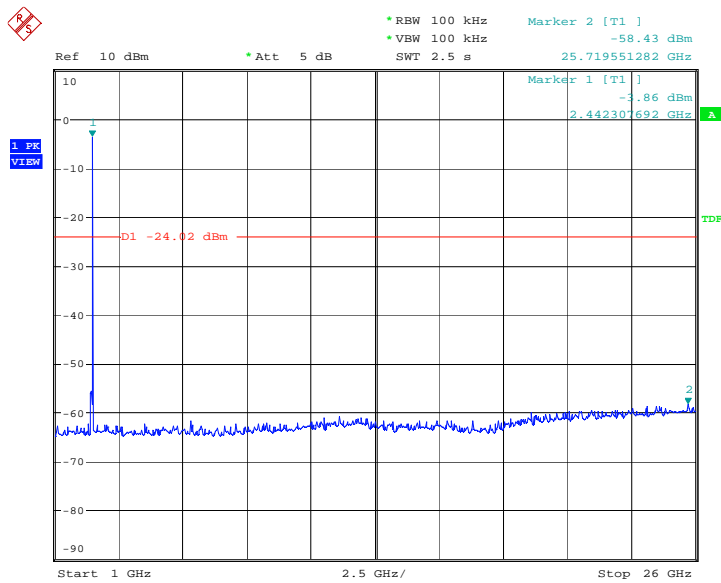
Date: 21.APR.2010 03:13:06

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



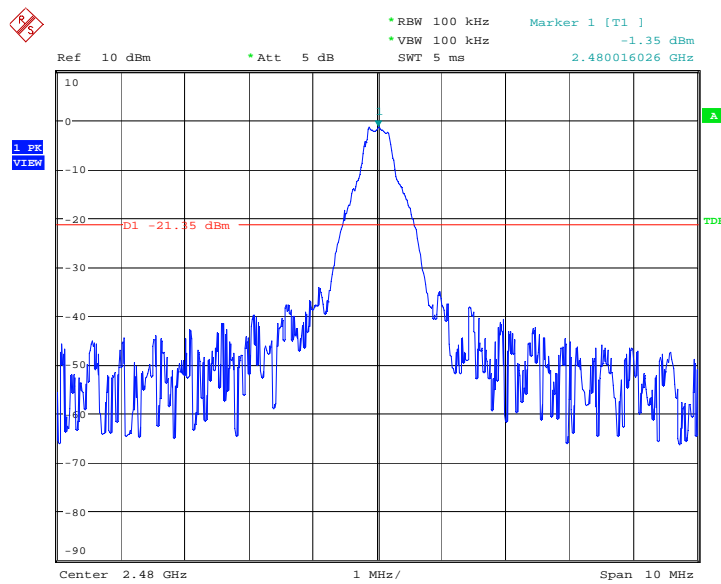
Date: 21.APR.2010 03:13:23

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



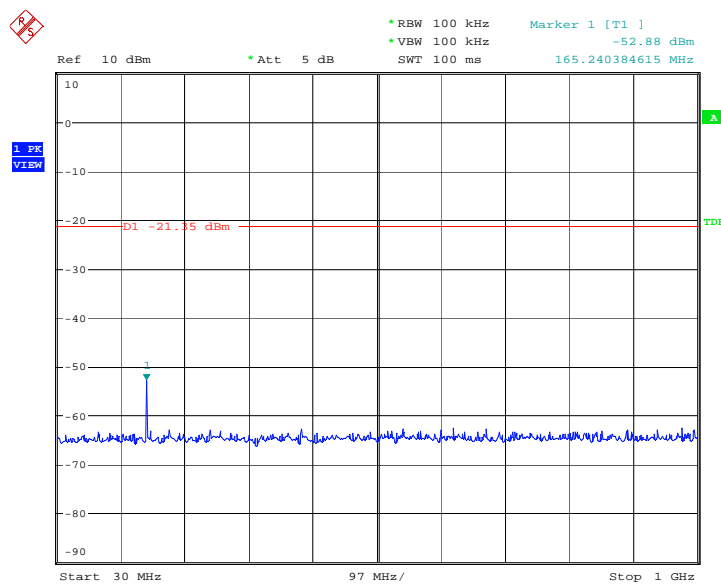
Date: 21.APR.2010 03:13:54

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



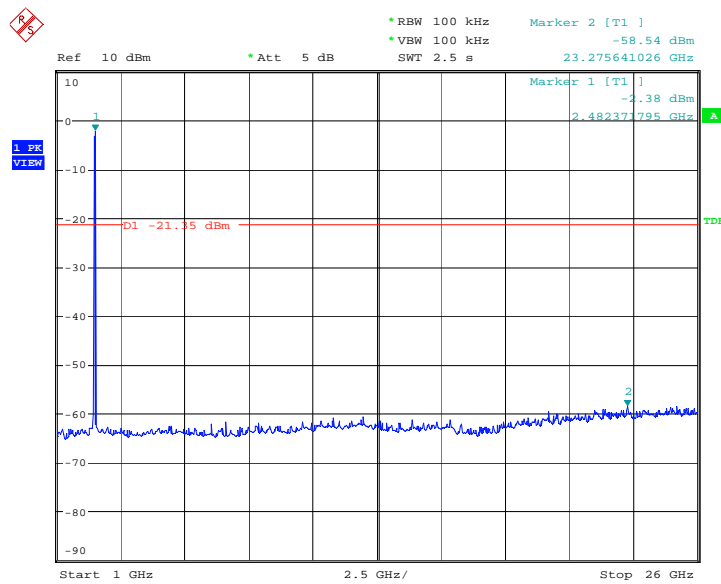
Date: 21.APR.2010 03:14:11

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



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



Date: 21.APR.2010 03:14:59

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

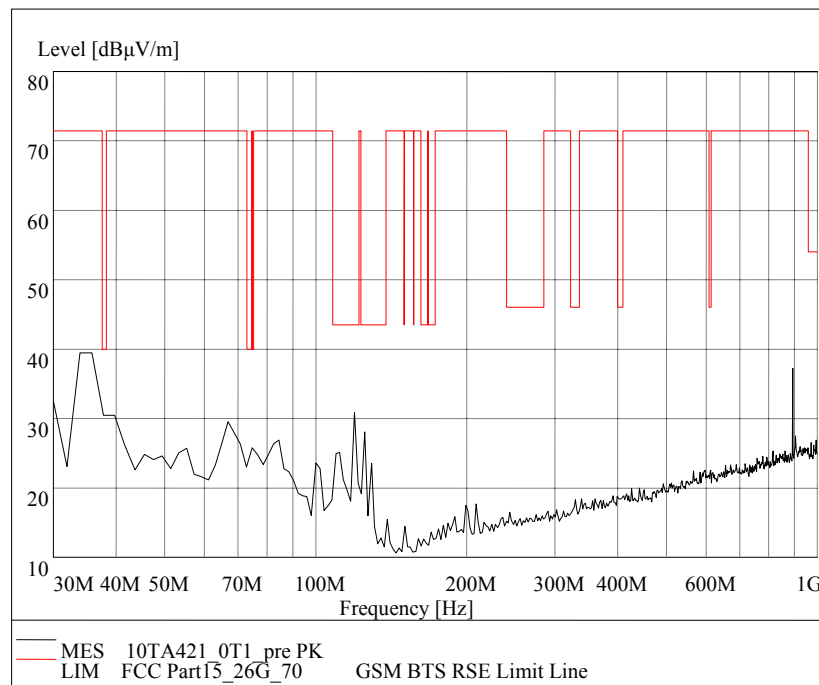


Fig. 14 Radiated emission: Channel 0, 30 MHz - 1 GHz

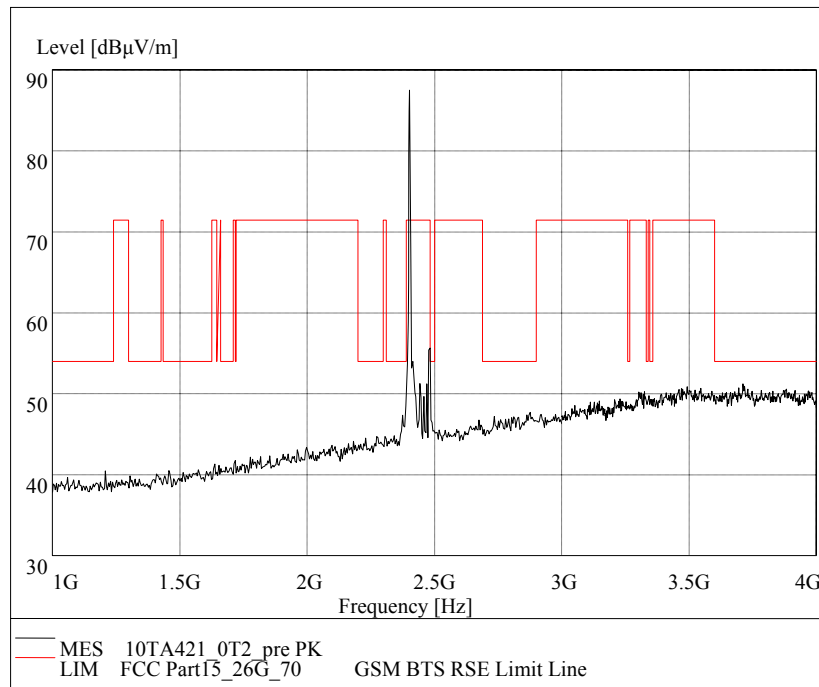


Fig. 15 Radiated emission: Channel 0, 1 GHz - 4 GHz

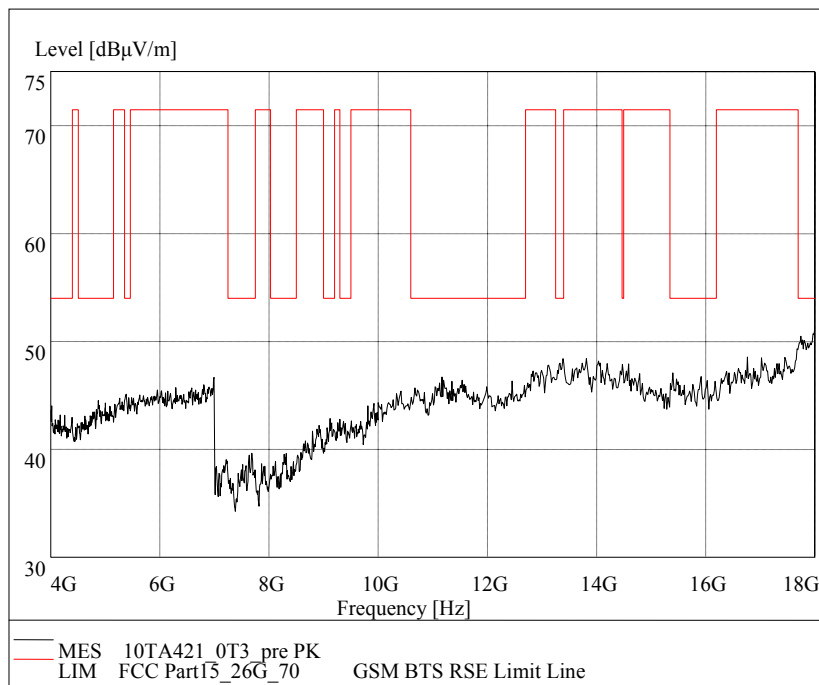


Fig. 16 Radiated emission: Channel 0, 4 GHz - 18 GHz

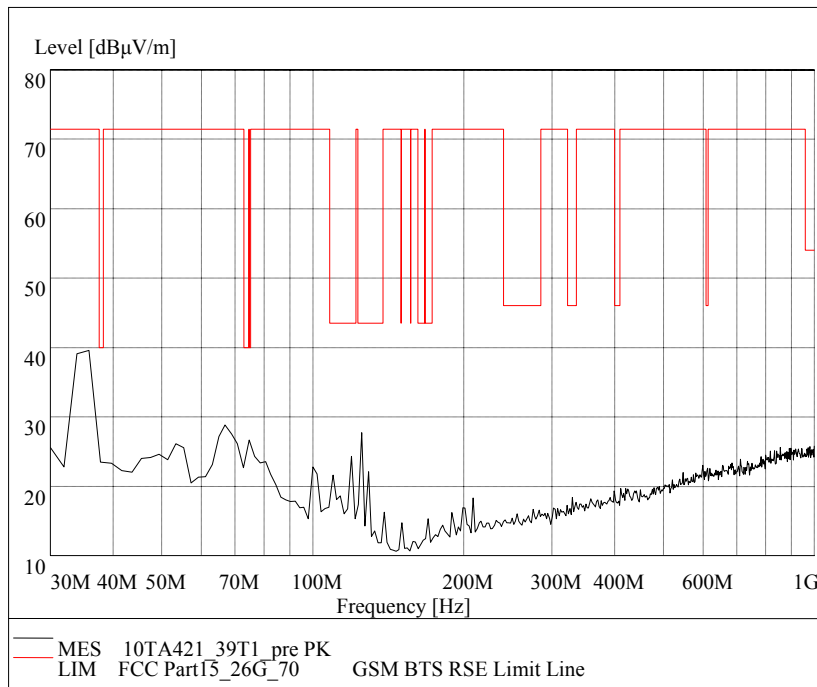


Fig. 17 Radiated emission: Channel 39, 30 MHz - 1 GHz

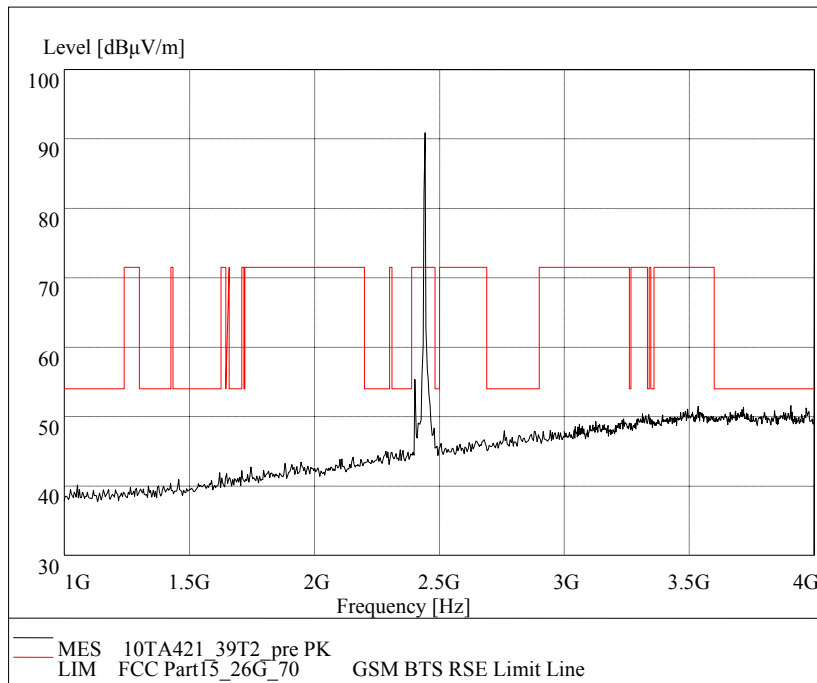


Fig. 18 Radiated emission: Channel 39, 1 GHz - 4 GHz

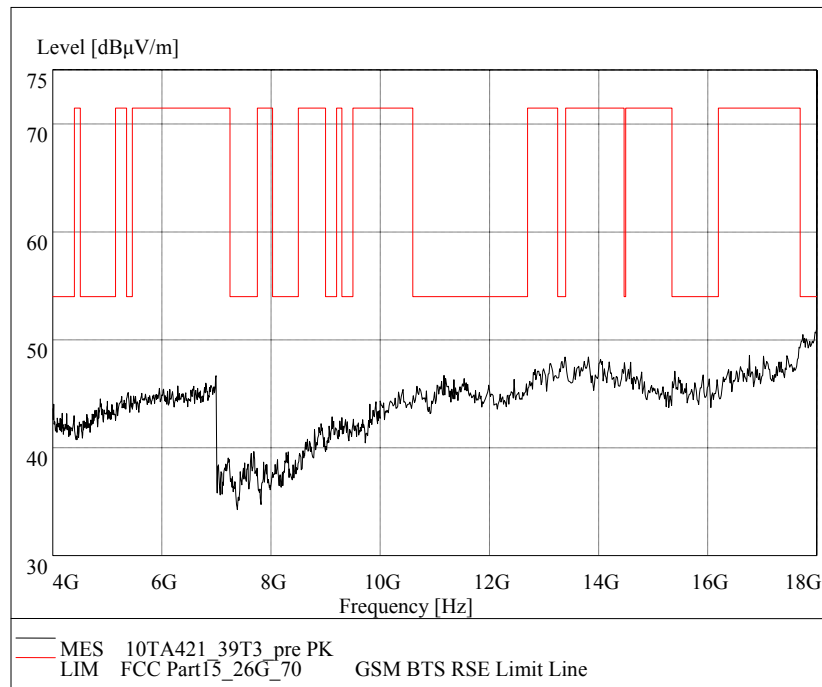


Fig. 19 Radiated emission: Channel 39, 4 GHz - 18 GHz

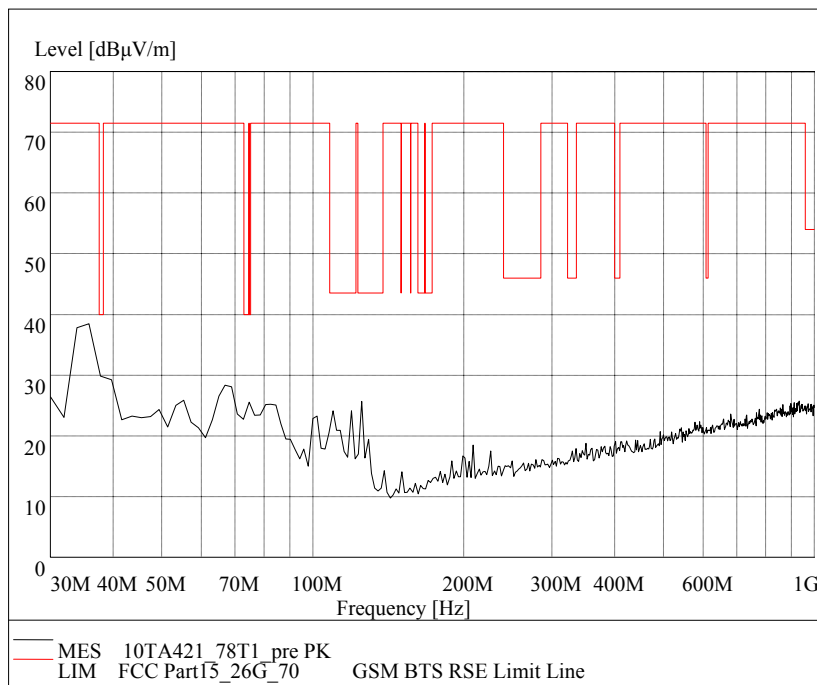


Fig. 20 Radiated emission: Channel 78, 30 MHz - 1 GHz

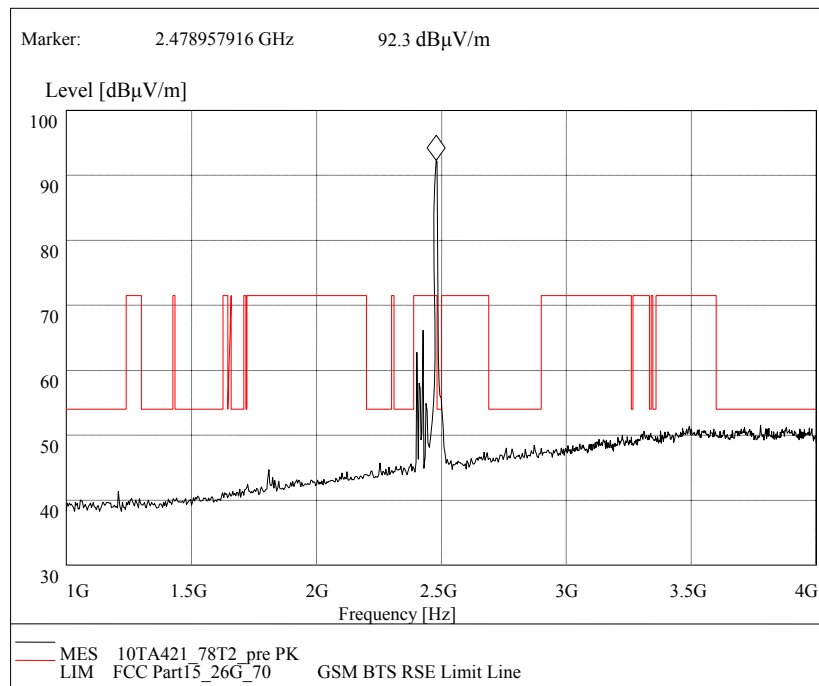


Fig. 21 Radiated emission: Channel 78, 1 GHz - 4 GHz

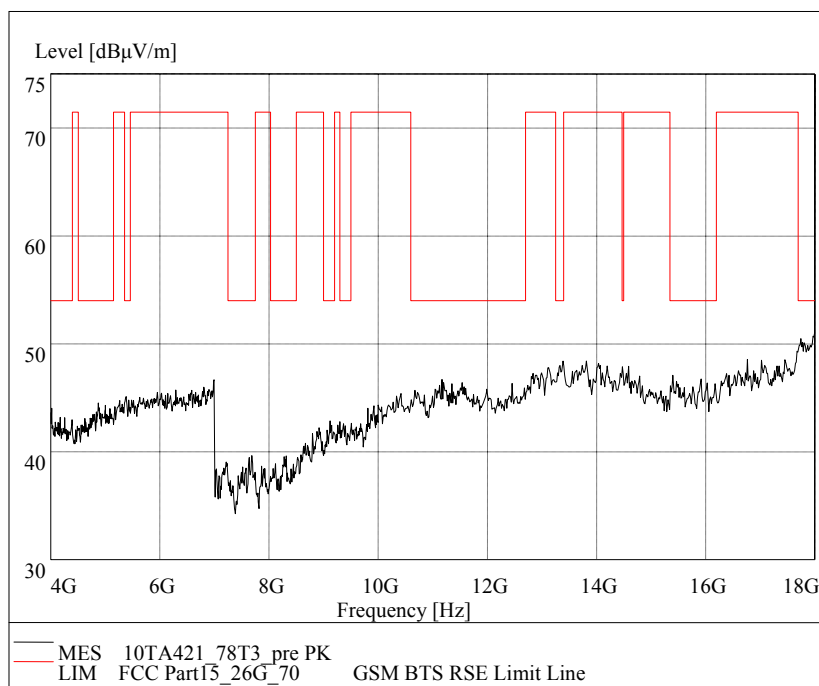


Fig. 22 Radiated emission: Channel 78, 4 GHz - 18 GHz

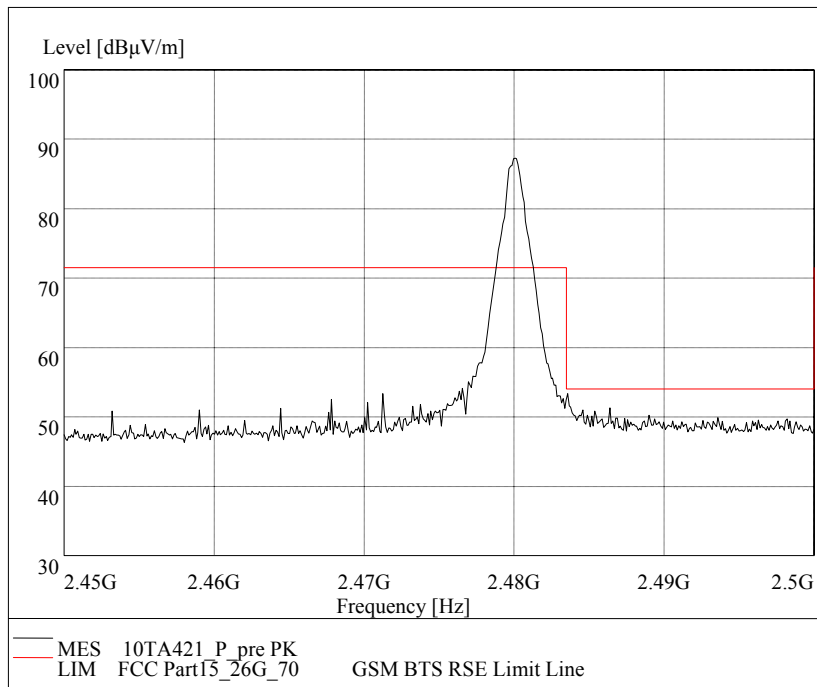


Fig. 23 Radiated emission (Power): 2.45GHz - 2.5GHz

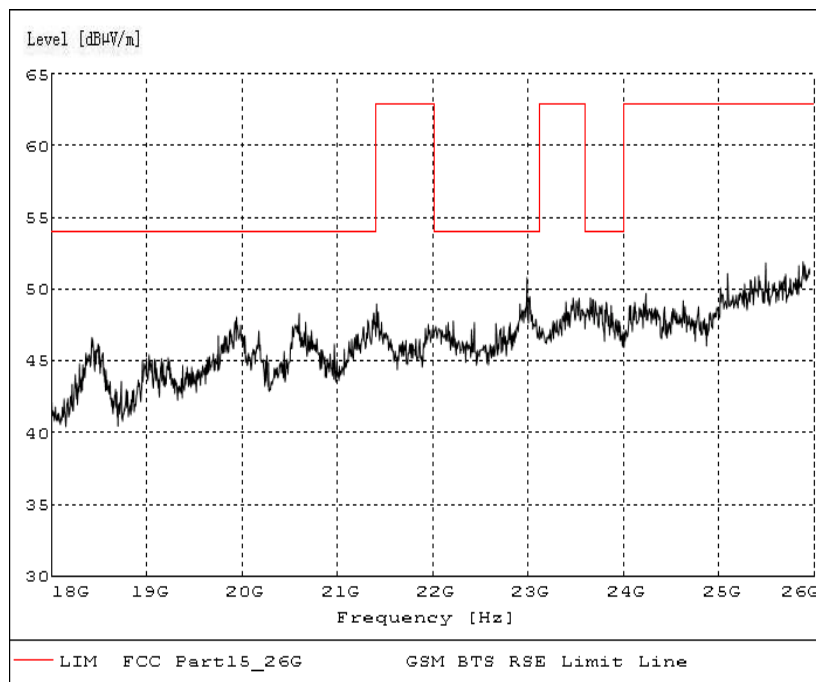


Fig. 24 Radiated emission: 18 GHz - 26 GHz

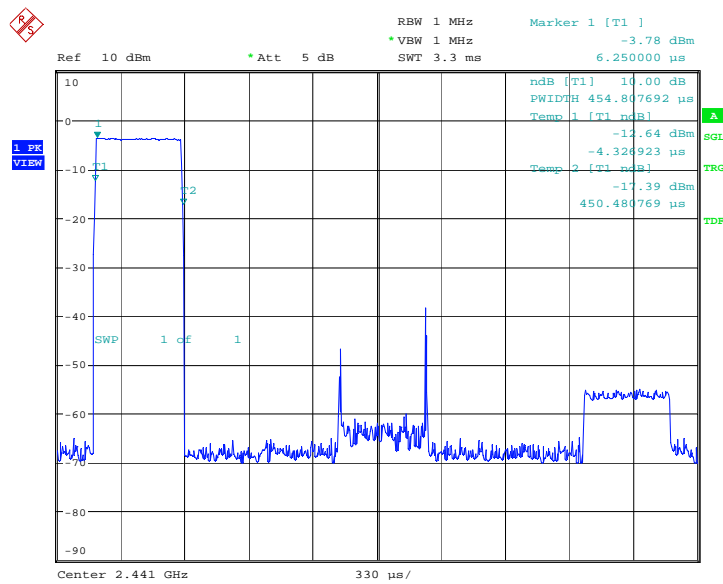


Fig. 25 Time of occupancy (Dwell Time): Channel 39, Packet DH1

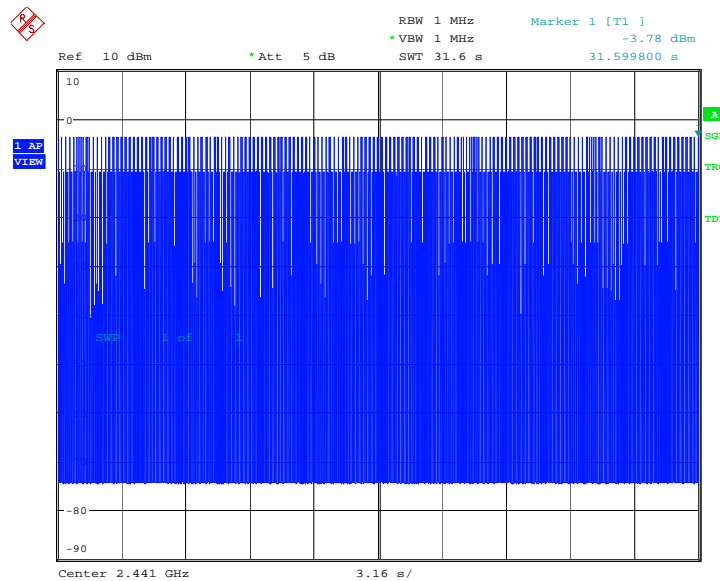
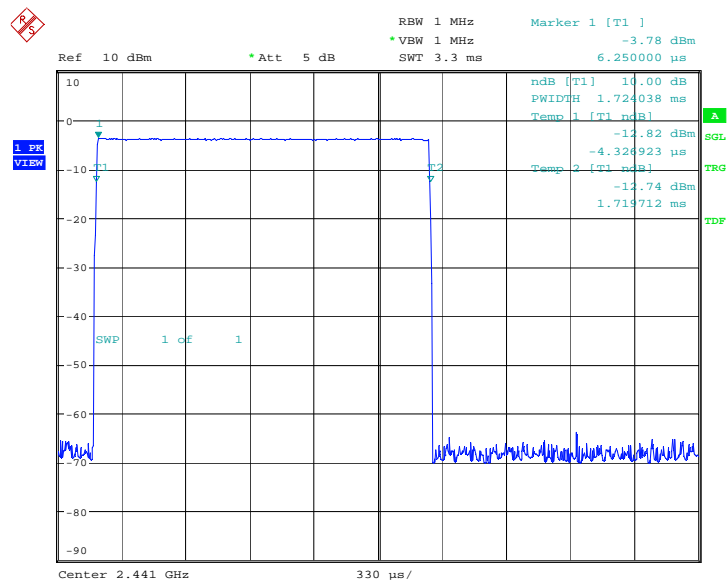
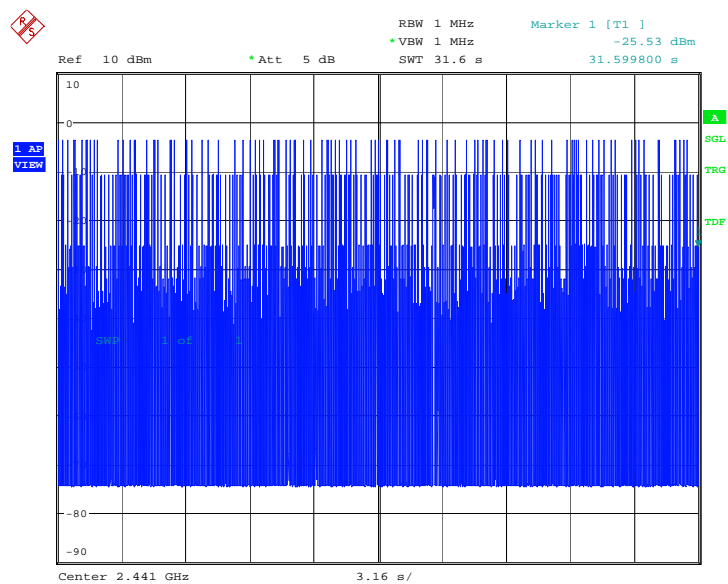


Fig. 26 Number of Transmissions Measurement: Channel 39, Packet DH1



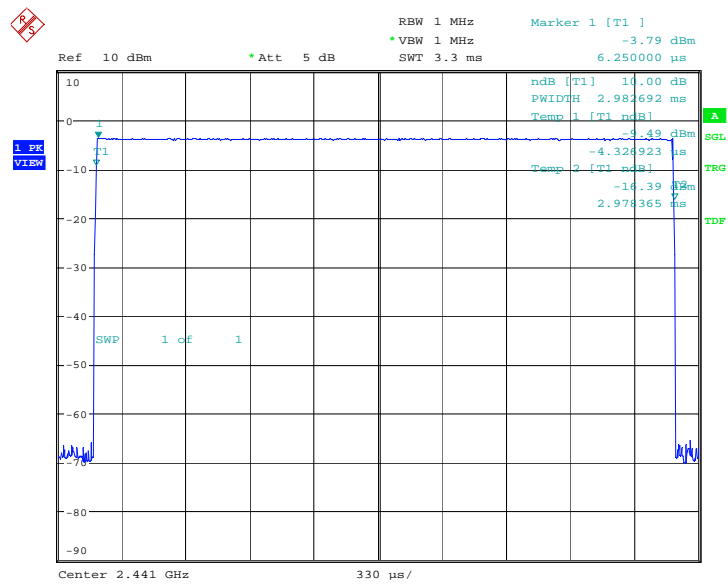
Date: 21.APR.2010 03:17:42

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



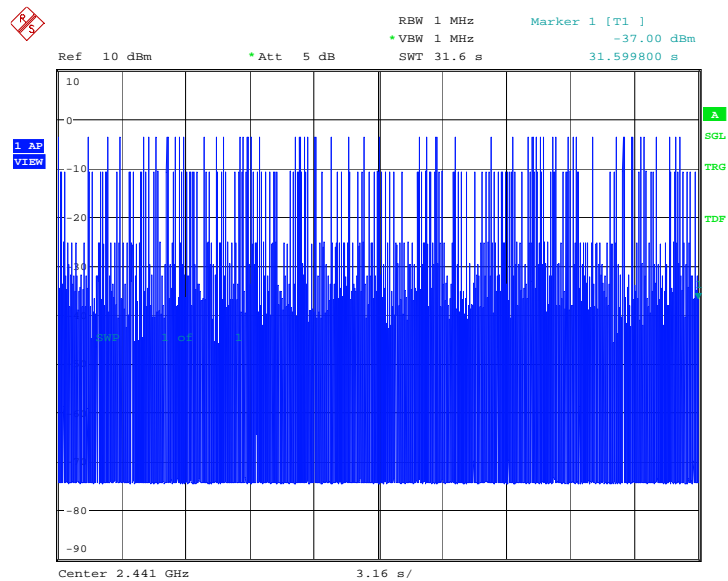
Date: 21.APR.2010 03:17:30

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



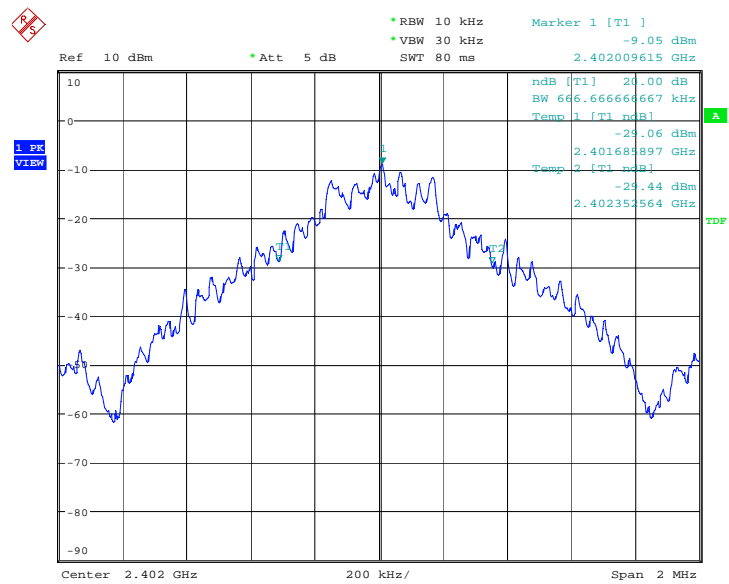
Date: 21.APR.2010 03:18:58

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



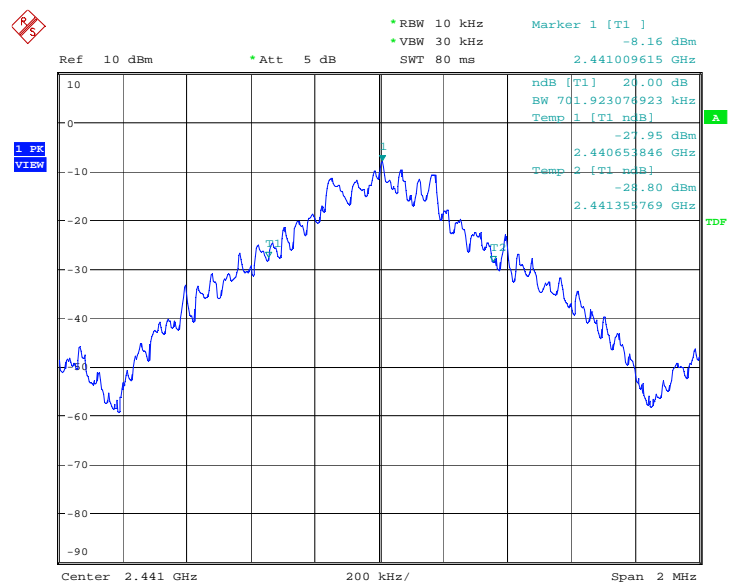
Date: 21.APR.2010 03:18:47

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



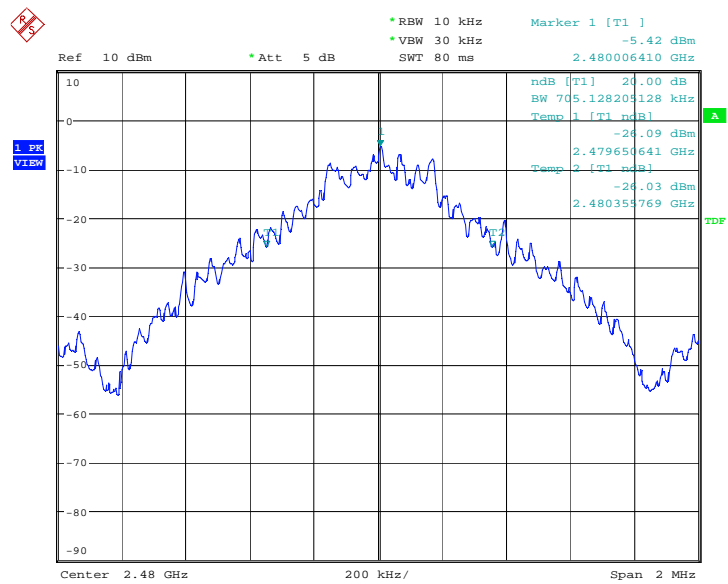
Date: 21.APR.2010 03:19:32

Fig. 31 20dB Bandwidth: Channel 0



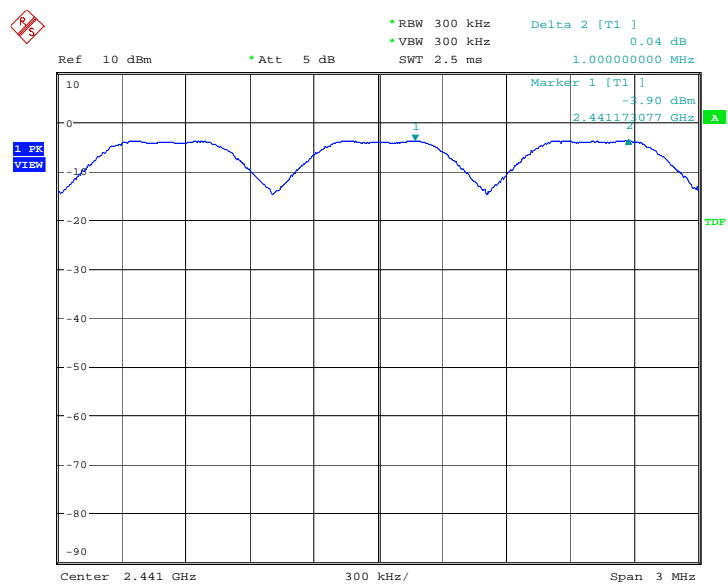
Date: 21.APR.2010 03:20:03

Fig. 32 20dB Bandwidth: Channel 39



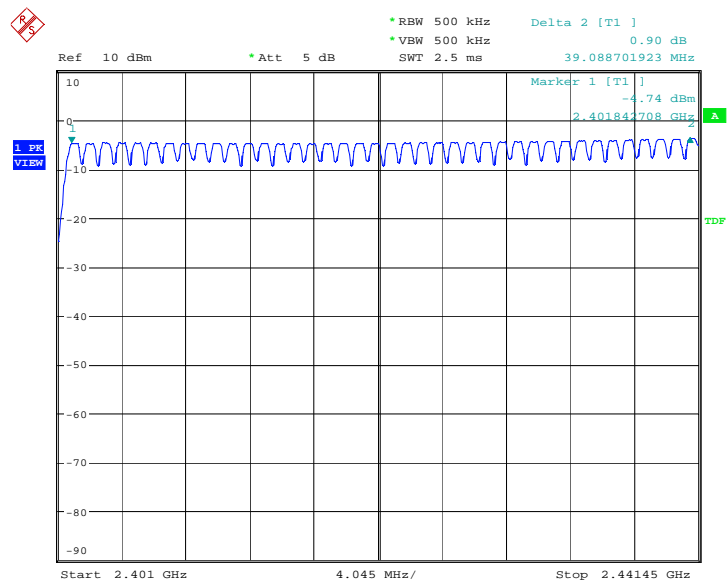
Date: 21.APR.2010 03:20:35

Fig. 33 20dB Bandwidth: Channel 78



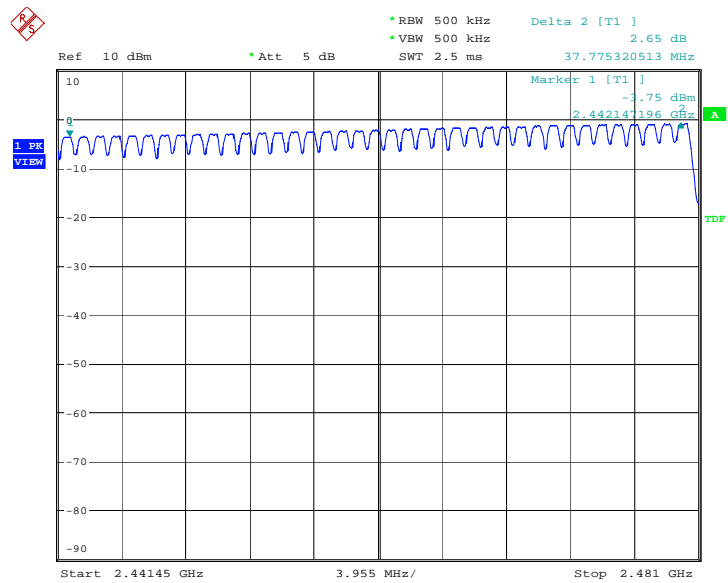
Date: 21.APR.2010 03:22:39

Fig. 34 Carrier frequency separation measurement: Channel 39



Date: 21.APR.2010 03:24:43

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



Date: 21.APR.2010 03:26:45

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

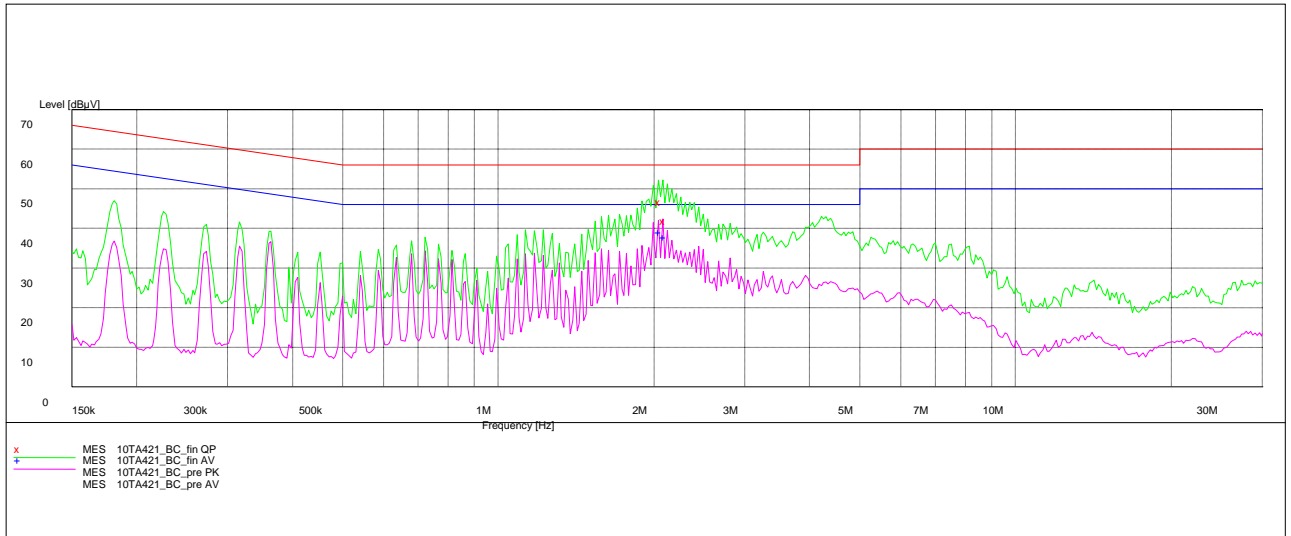


Fig. 37 AC Powerline Conducted Emission with charger

MEASUREMENT RESULT: "10TA421_BC_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB	dB	
2.081208	50.20	10.1	56	5.8	L1	GND
2.123040	45.40	10.1	56	10.6	N	GND

MEASUREMENT RESULT: "10TA421_BC_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB	dB	
2.081208	42.80	10.1	46	3.2	L1	GND
2.123040	41.50	10.1	46	4.5	L1	GND

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