



No. DAT-P-114/01-01



TESTING
CNAS L0442

TEST REPORT

No. 2008BTH0039

Product Name	GSM/GPRS/EDGE Tri-band Digital Mobile Phone With Bluetooth (FCC ID : VQRCTX710)
Model	Philips X710
Client	Shenzhen SangFei Consumer Communications Co., Ltd.
Classification of test	Type Approval

**Telecommunication Metrology Center
of Ministry of Information Industry**

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1. Competence and Warranties

Telecommunication Metrology Center of Ministry of Information Industry is a test laboratory accredited by DAR (DATEch) – Deutschen Akkreditierungs Rat (The German Accreditation Body Technology) for the tests indicated in the Certificate No. **DAT-P-114/01-01**.

Telecommunication Metrology Center of Ministry of Information Industry is a test laboratory accredited by CNAS–China national Accreditation Service for Conformity Assessment, for the tests indicated in the Certificate No. **L0442**.

Telecommunication Metrology Center of Ministry of Information Industry (hereinafter TMC of MII) is a test laboratory competent to carry out the tests described in this test report.

TMC of MII guarantees the reliability of the data presented in this test report, which is the results of measurements and tests performed for the items under test on the date and under the conditions stated in this test report and is based on the knowledge and technical facilities available at **TMC of MII** at the time of execution of the test.

TMC of MII is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the items under test and the results of the test.

2. Testing Laboratory

2.1. Testing Location

Name of Company :	Telecommunication Metrology Center of Ministry of Information Industry
Address:	No 52, Hua Yuanbei Road, Haidian District, Beijing, P.R.China
Postal Code:	100083
Telephone:	+86-10-62303288
Fax:	+86-10-62304793

2.2. Testing 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

Shielding room2 did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
-------------	----------------------------

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Relative humidity	Min. = 35 %, 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. = 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

Fully-anechoic chamber2 (6.0 meters×4.0 meters×3.67 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

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

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 80 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Semi-anechoic chamber (23 meters×17meters×10meters) 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
Normalised site attenuation (NSA)	< ±3.2 dB, 10 m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

2.3. Testing Period

The performed test started on 26th Aug, 2008 and finished on 6th Oct, 2008.

3. Applicant Information

3.1. Client information

Name of Company:	Shenzhen Sang Fei Consumer Communications Co., Ltd.
Address /Post:	11 Science and Technology Road, Shenzhen Hi-tech Industrial Park Nanshan District, Shenzhen, PRC
City:	Shenzhen
Postal Code:	518057
Country:	China
Telephone:	0755-26633217
Fax:	0755-26635272

3.2. Manufacturer information

Name of Company:	Shenzhen Sang Fei Consumer Communications Co., Ltd
Address /Post:	11 Science and Technology Road, Shenzhen Hi-tech Industrial Park Nanshan District, Shenzhen, PRC
City:	Shenzhen
Postal Code:	518057
Country:	China
Telephone:	0755-26633217
Fax:	0755-26635272

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

4.1. About EUT

Product name:	GSM/GPRS/EDGE Tri-band Digital Mobile Phone with Bluetooth
Model:	Philips X710
With Bluetooth	Yes
EUT operating voltage- Normal:	3.7
Extreme Low Voltage:	3.5
Extreme High Voltage:	4.2,
Extreme temperature:	-20°C / + 55°C

Note: please refer to ANNEX A in this test report for Photographs of EUT.

4.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	356049020000383,	PCB-P051-MAIN-P1.0	X710_M6229L_0832A00_V02CN
EUT2	356049020000409	PCB-P051-MAIN-P1.0	X710_M6229L_0832A00_V02CN

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

4.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN
AE1	Switching adapter	DSA-5W-05 FUS 050065	/
AE2	Li-ion Battery	AB1900AWM	/

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

5. Reference Documents

5.1. Documents supplied by applicant

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

5.2. Reference Documents

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.	May 4, 2007 Edition

6. 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 B** for detail.

6.2. Statements

TMC has evaluated the test cases requested by the client/manufacturer as listed in section 6.1 of this report for the EUT specified in section 4 according to the standards or reference documents listed in section 5.2.

7. Test Equipments

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSQ26	200136	Rohde & Schwarz	2009-01-15
2	Bluetooth Tester	CBT	100135	Rohde & Schwarz	2008-11-12
3	Power Meter	NRVD	101078	Rohde & Schwarz	/
4	DIODE Power Sensor	NRV-Z15	100103	Rohde & Schwarz	2009-09-02
5	Test Receiver	ESS	847151/015	Rohde & Schwarz	2008-10-30
6	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2009-08-13

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESI40	831564/002	Rohde & Schwarz	2009-02-12
2	BiLog Antenna	3142B	9908-1403	EMCO	2009-03-15
3	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2008-12-25
4	Universal Radio Communication Tester	CMU200	105948	Rohde & Schwarz	2009-08-15

Anechoic chamber

Fully anechoic chamber by Frankonia German.

ANNEX A: Photograph of EUT

External Photo



Mobile Phone



Mobile Phone



Battery



Battery



Adapter



Tag on the Adapter

Internal Photo



Mobile Phone Disassembly



Mobile Phone Disassembly

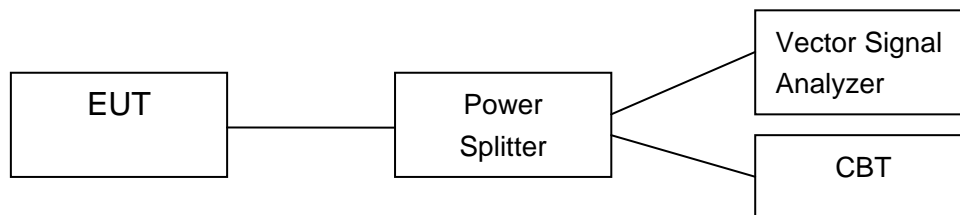


Mobile Phone Disassembly

ANNEX B: MEASUREMENT RESULTS

B.1 Measurement Method of Conducted Cases

- 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



B.2 Peak Output Power - Conducted

Measurement Limit:

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

Measurement Results:

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	-1.85	-1.26	-1.18	P

Conclusion: PASS

B.3 Frequency Band Edges – Conducted

Measurement Limit:

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

Measurement Result:

Channel	Hopping	Band Edge Power (dBc)	Conclusion	
0	Hopping OFF	Fig.1	41.41	P
	Hopping ON	Fig.2	49.65	P
78	Hopping OFF	Fig.3	44.47	P
	Hopping ON	Fig.4	45.96	P

See annex C for test graphs.

Conclusion: PASS

B.4 Conducted Emission

Measurement Limit:

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

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 C for test graphs.

Conclusion: PASS

B.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)).

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

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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
For all channels	2.45GHz~2.5GHz	Fig.23	P
For all channels	18 GHz ~ 26 GHz	Fig.24	P

See annex C for test graphs.

Conclusion: PASS

B.6 Time of Occupancy (Dwell Time)

Measurement Limit:

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

Measurement Result:

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.25	265.82	P
	DH3	Fig.26	345.34	P
	DH5	Fig.27	359.20	P

See annex C for test graphs.

Conclusion: PASS

B.7 20dB Bandwidth

Measurement Limit:

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

* 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 B.8.

Measurement Results:

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.28	921.63	NA
39	Fig.29	921.63	NA
78	Fig.30	921.63	NA

See annex C for test graphs.

Conclusion: NA

B.8 Carrier Frequency Separation

Measurement Limit:

Standard	Limit(kHz)
FCC 47 CFR Part 15.247(a)(1)	> 614.42

* Comment: This limit should be over 25 kHz or $(2/3) * 20\text{dB}$ bandwidth, whichever is greater. The value of $(2/3) * 20\text{dB}$ bandwidth (value of channel 39 is 921.63 kHz) is 614.42 kHz, and it is greater than 25 kHz.

Measurement Result:

Channel	Carrier frequency separation (kHz)	Conclusion
39	Fig.31 1000.00	P

See annex C for test graphs.

Conclusion: PASS

B.9 Number of Hopping Channels

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a) (1)(iii)	> 75

Measurement Result:

Channel	Number of hopping channels	Conclusion
0~39	Fig.32	P
40~78	Fig.33	

See annex C for test graphs.

Conclusion: PASS

B.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. 34	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	
0.15 to 0.5	56 to 46	Fig. 34	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.

See annex C for test graphs.

Conclusion: PASS

ANNEX C: TEST FIGURE LIST

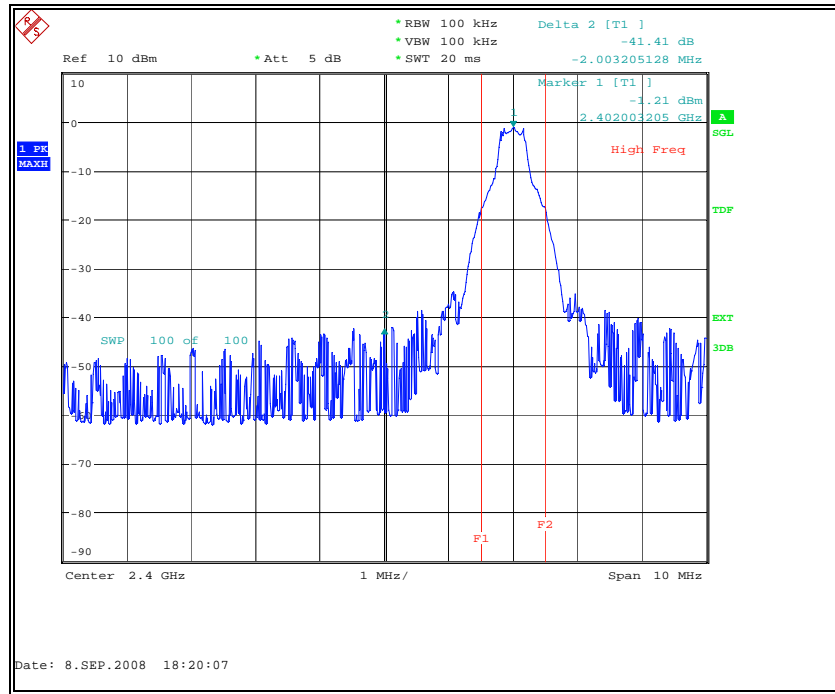


Fig. 1 Frequency Band Edges: Channel 0, Hopping Off

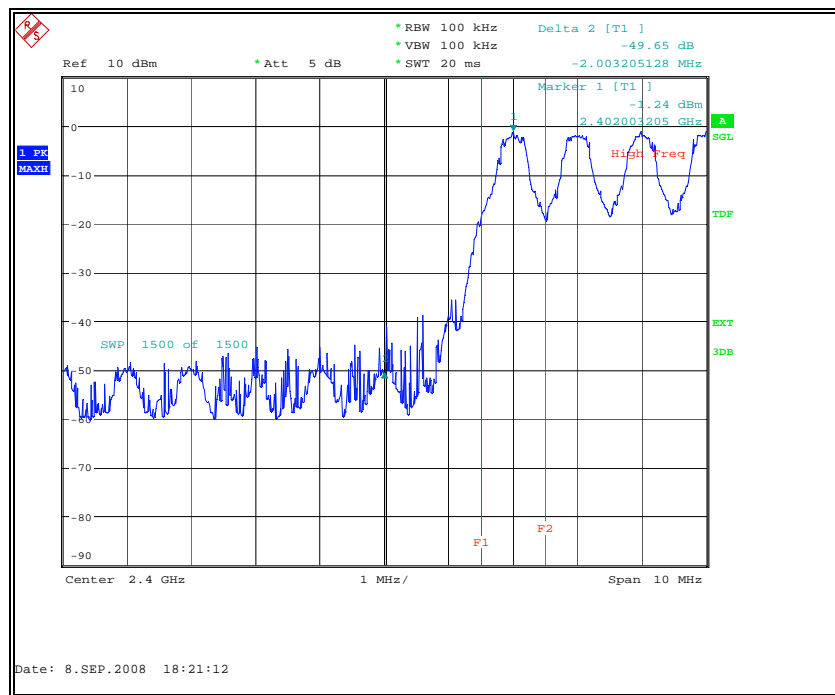


Fig. 2 Frequency Band Edges: Channel 0, Hopping On

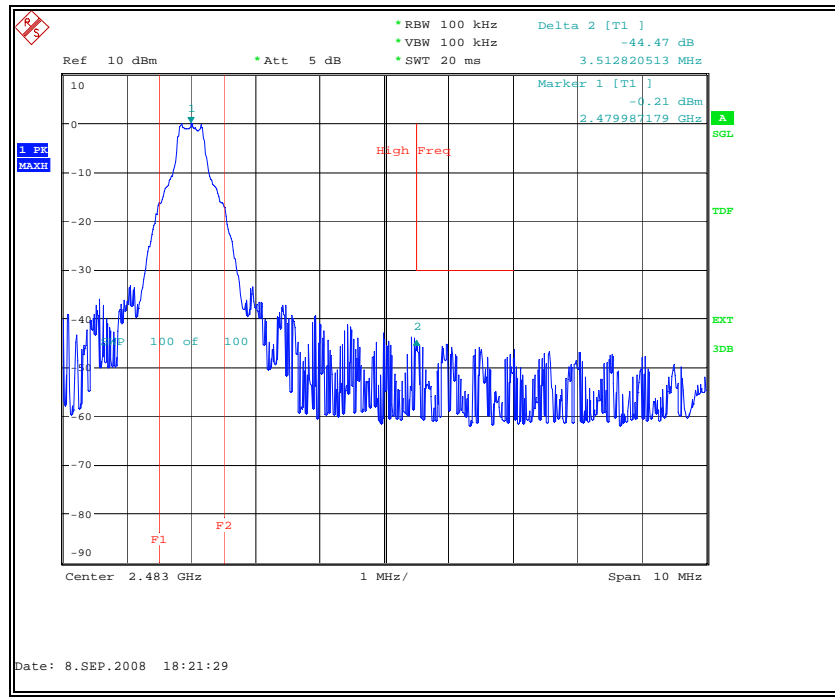


Fig. 3 Frequency Band Edges: Channel 78, Hopping Off

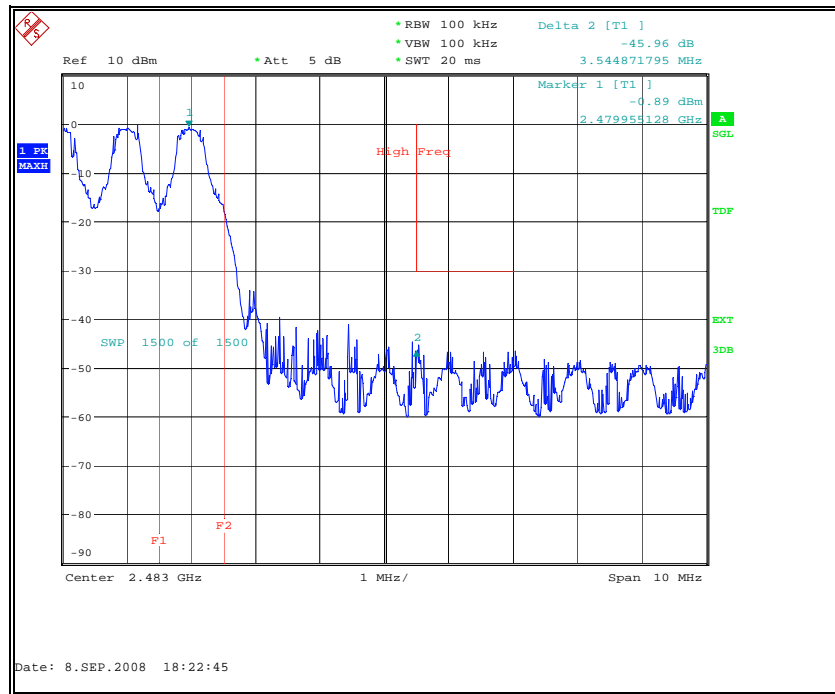
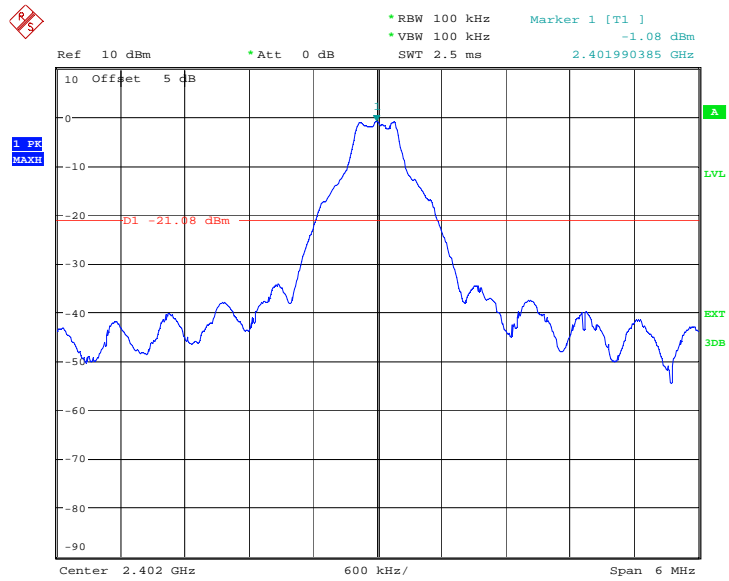
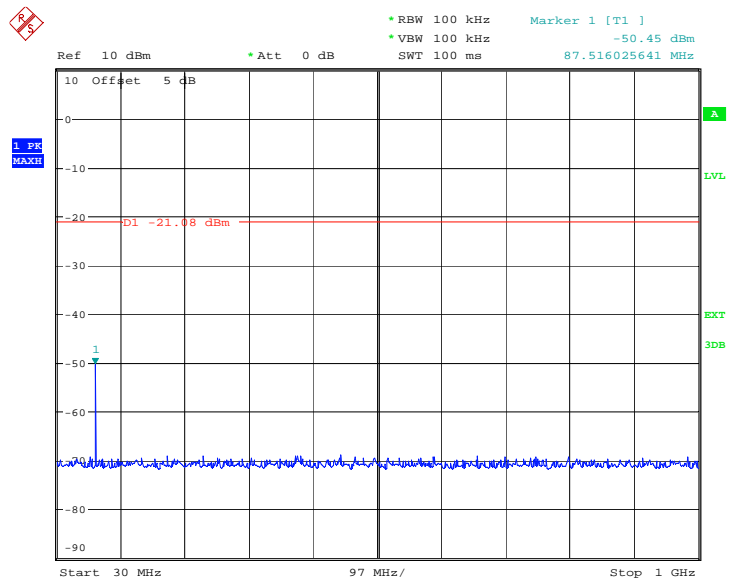


Fig. 4 Frequency Band Edges: Channel 78, Hopping On



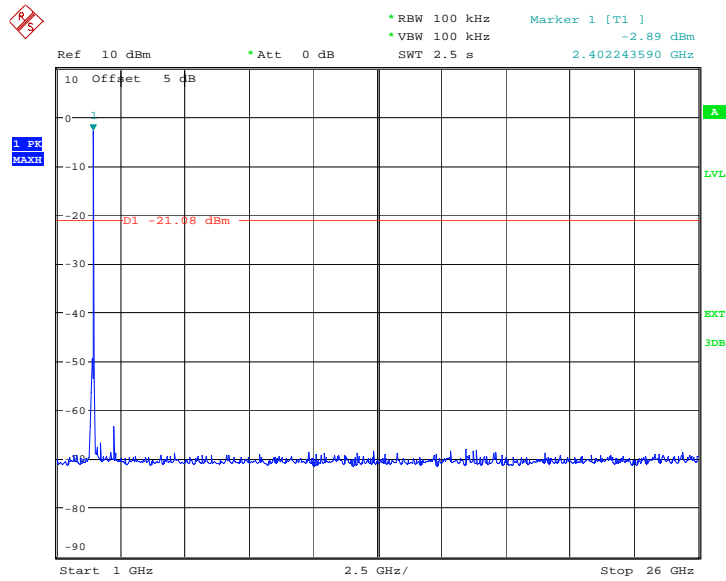
Date: 9.SEP.2008 09:25:21

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



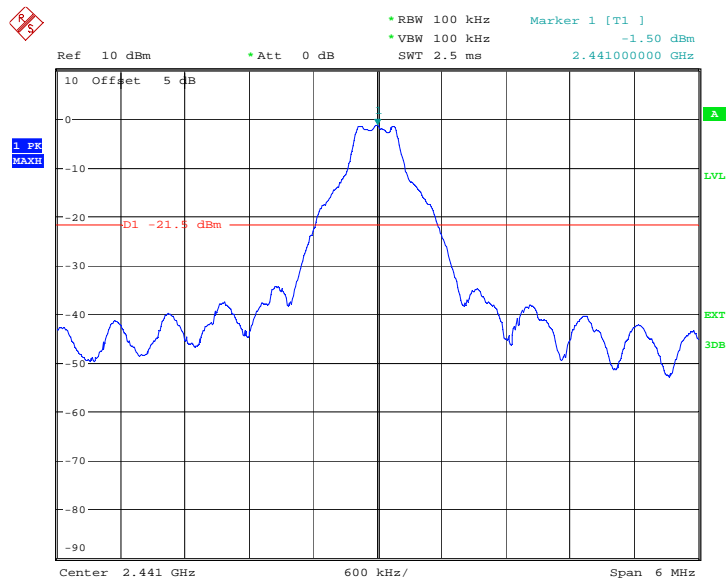
Date: 9.SEP.2008 09:25:50

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



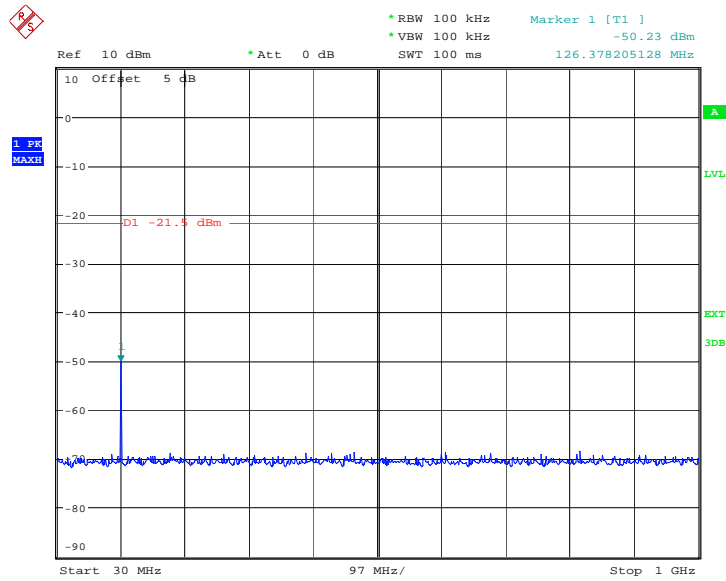
Date: 9.SEP.2008 09:26:18

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



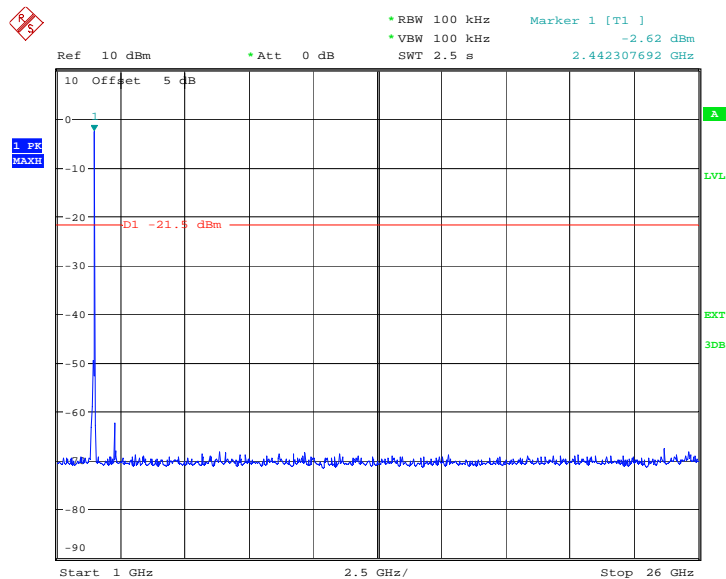
Date: 9.SEP.2008 09:28:31

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



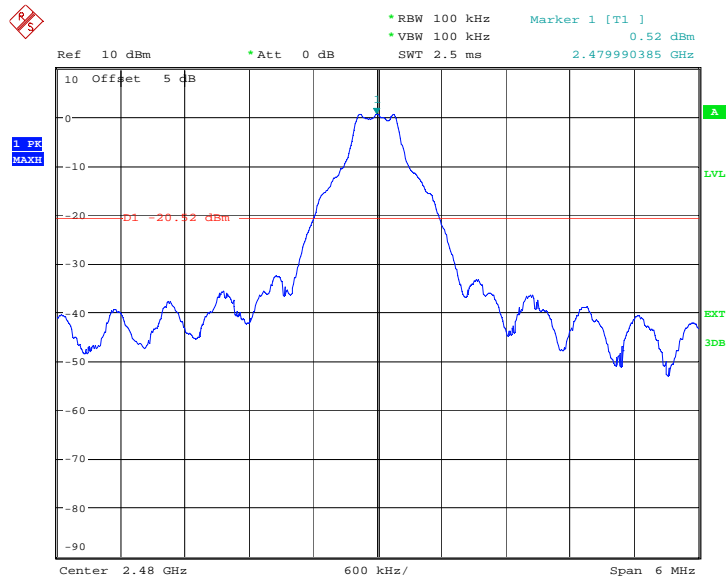
Date: 9.SEP.2008 09:29:03

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



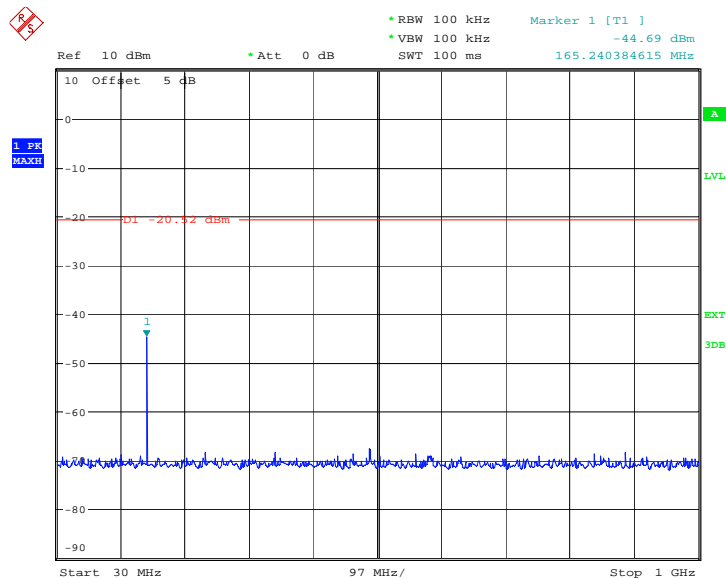
Date: 9.SEP.2008 09:29:41

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



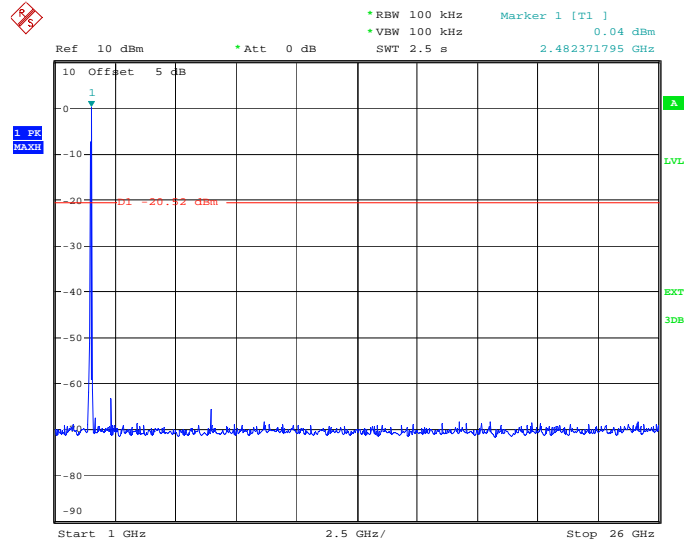
Date: 9.SEP.2008 09:33:12

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



Date: 9.SEP.2008 09:33:38

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



Date: 9.SEP.2008 09:34:12

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

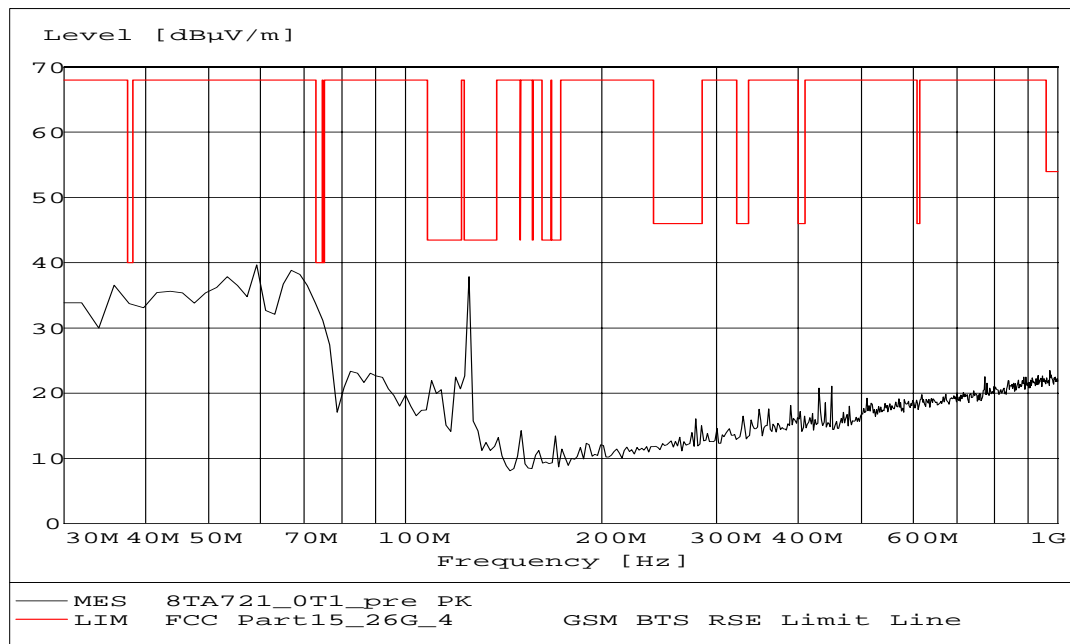


Fig. 14 Radiated emission: Channel 0, 30 MHz ~ 1 GHz

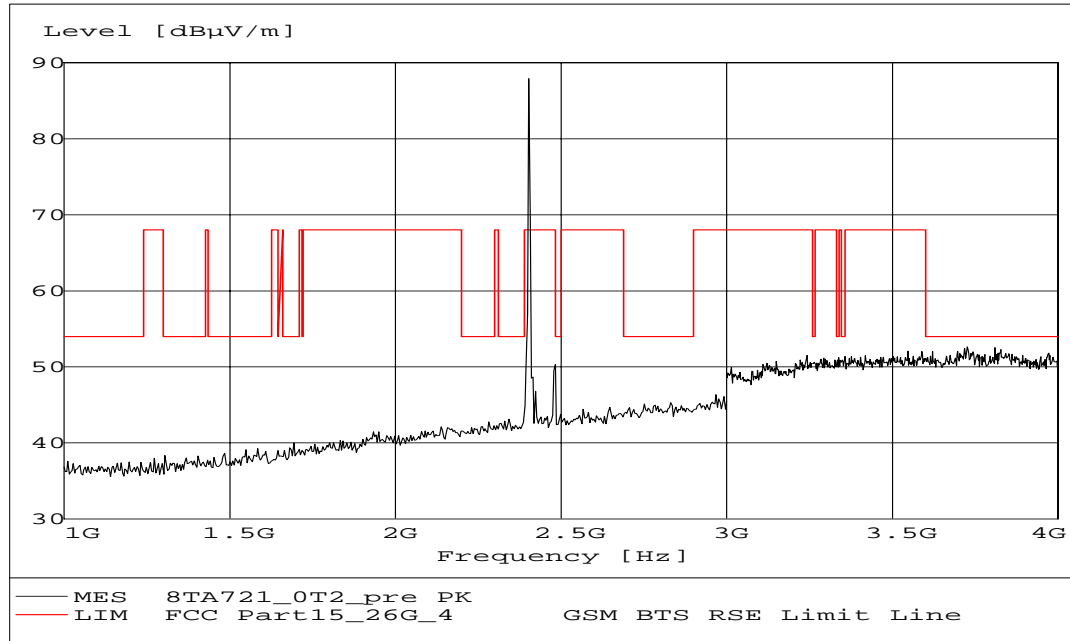


Fig. 15 Radiated emission: Channel 0, 1 GHz ~ 4 GHz

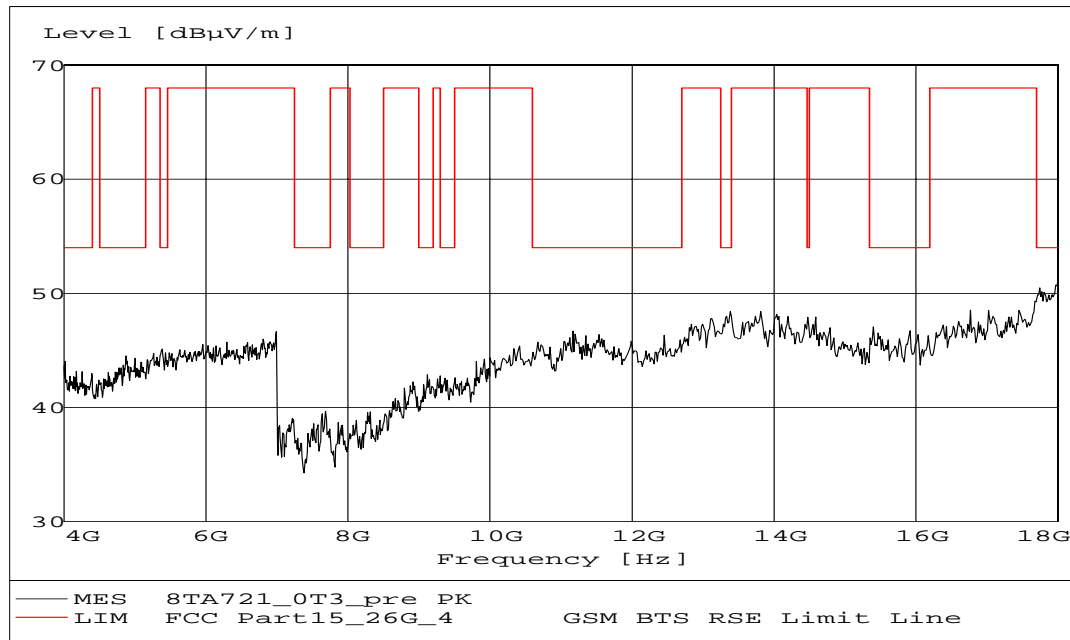


Fig. 16 Radiated emission: Channel 0, 4 GHz ~ 18 GHz

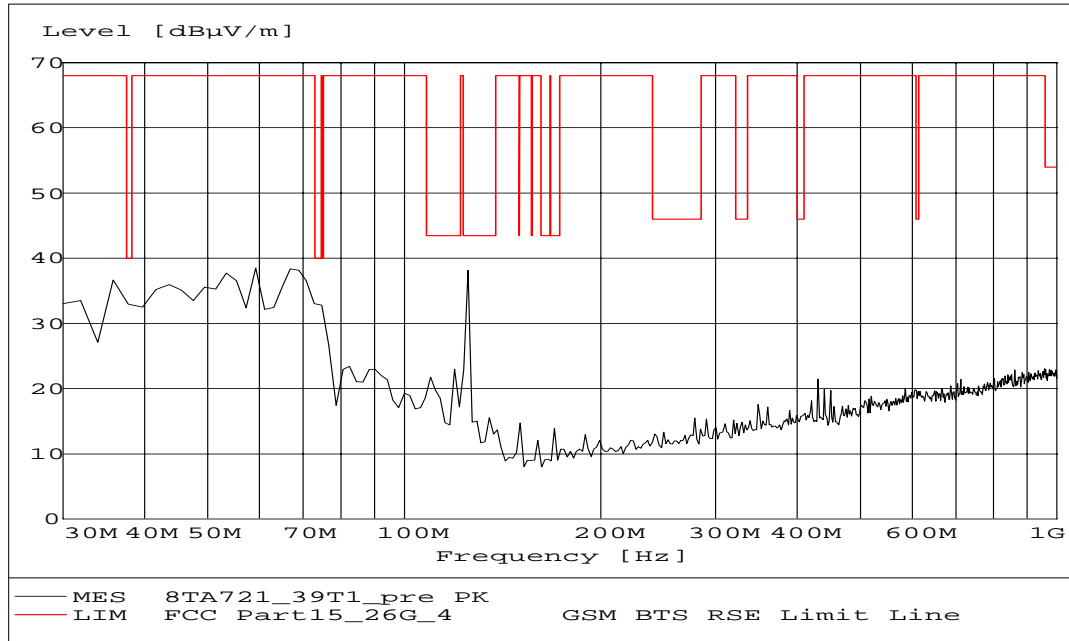


Fig. 17 Radiated emission: Channel 39, 30 MHz ~ 1 GHz

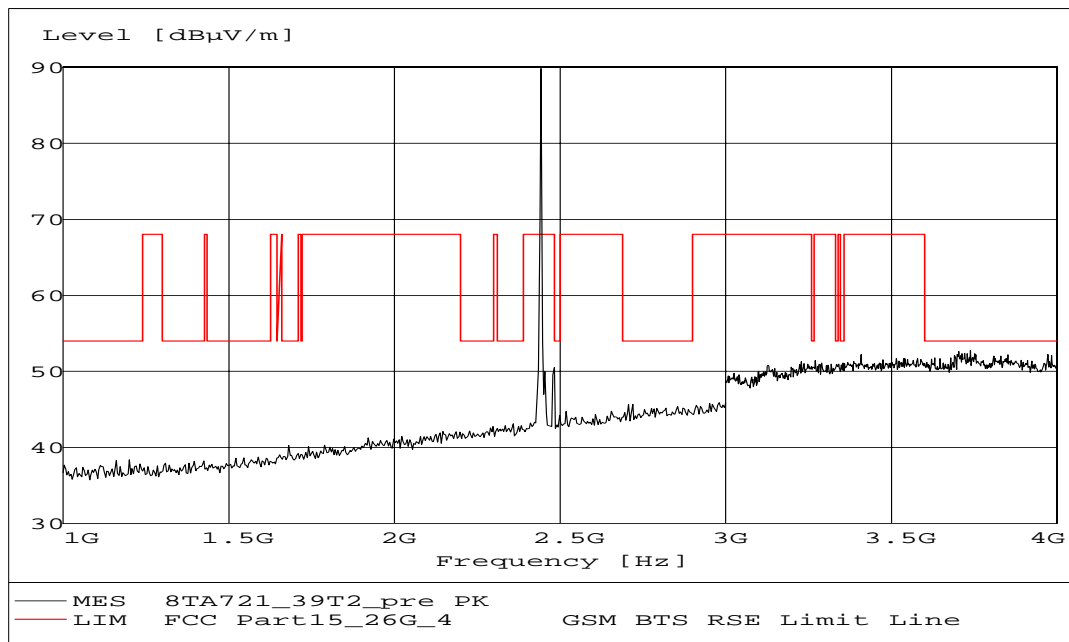


Fig. 18 Radiated emission: Channel 39, 1 GHz ~ 4 GHz

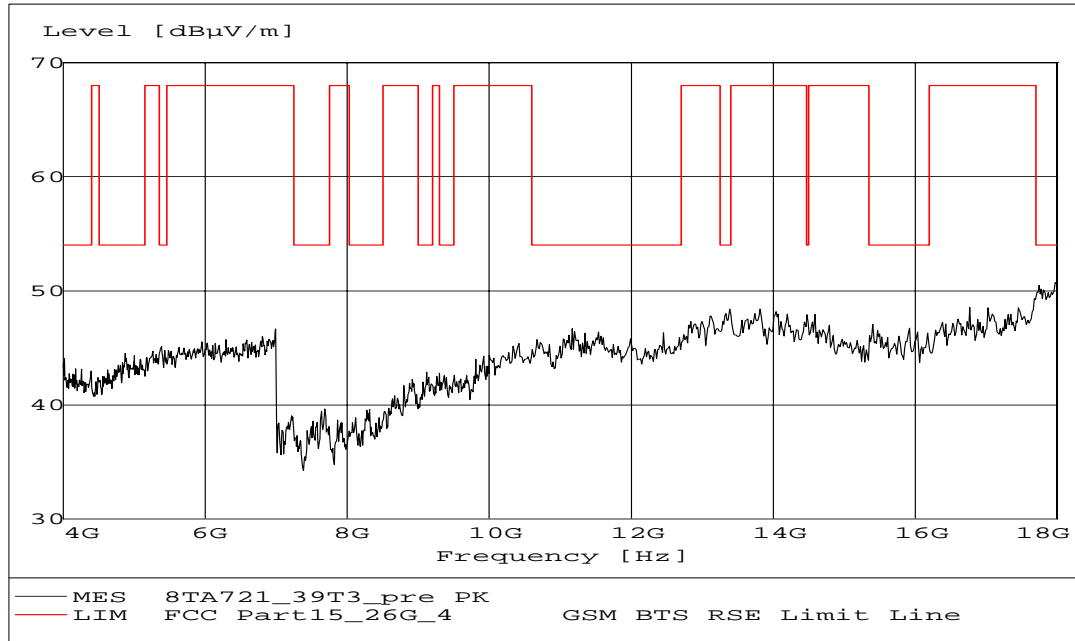


Fig. 19 Radiated emission: Channel 39, 4 GHz ~ 18 GHz

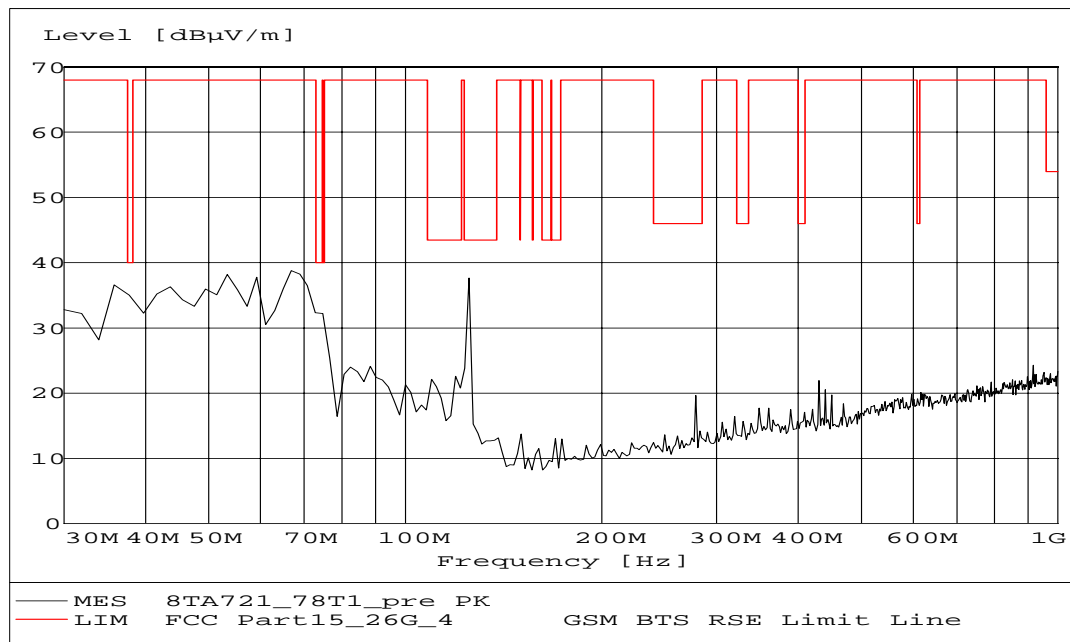


Fig. 20 Radiated emission: Channel 78, 30 MHz ~ 1 GHz

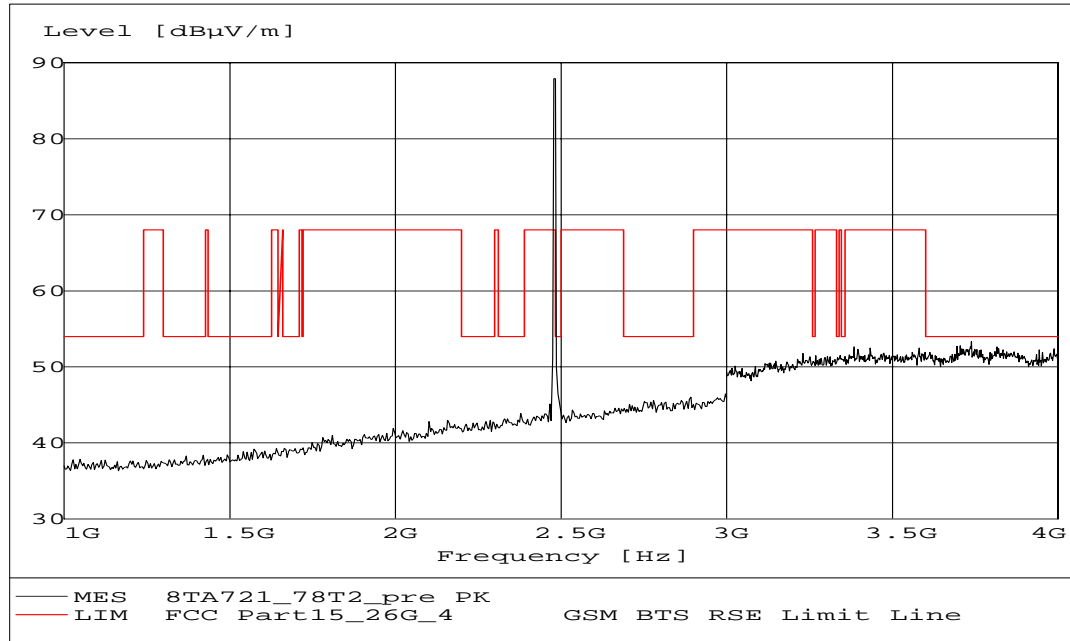


Fig. 21 Radiated emission: Channel 78, 1 GHz ~ 4 GHz

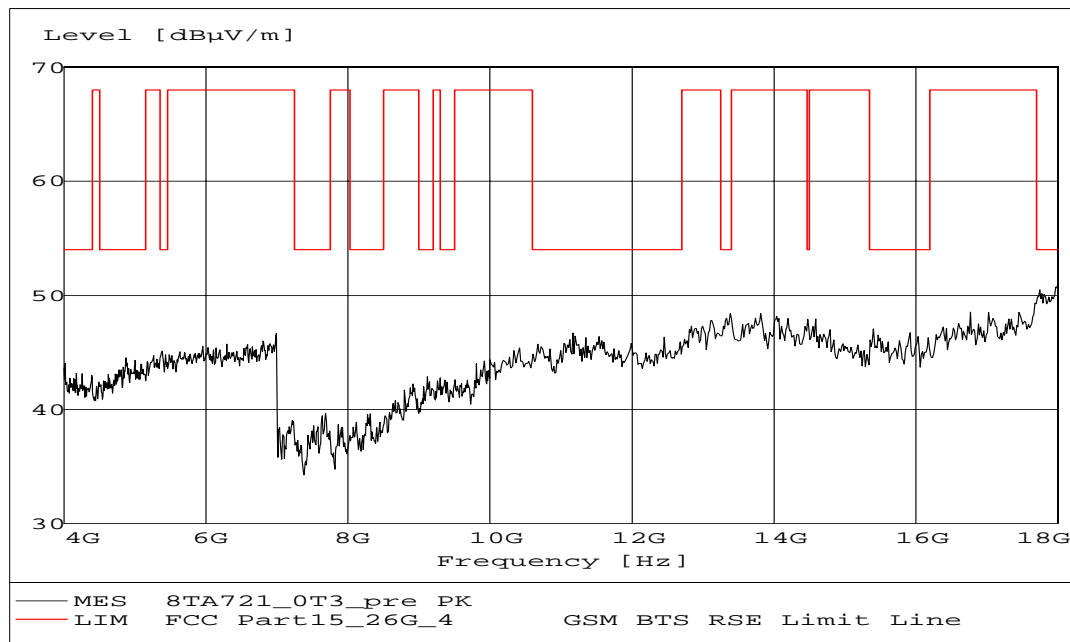


Fig. 22 Radiated emission: Channel 78, 4 GHz ~ 18 GHz

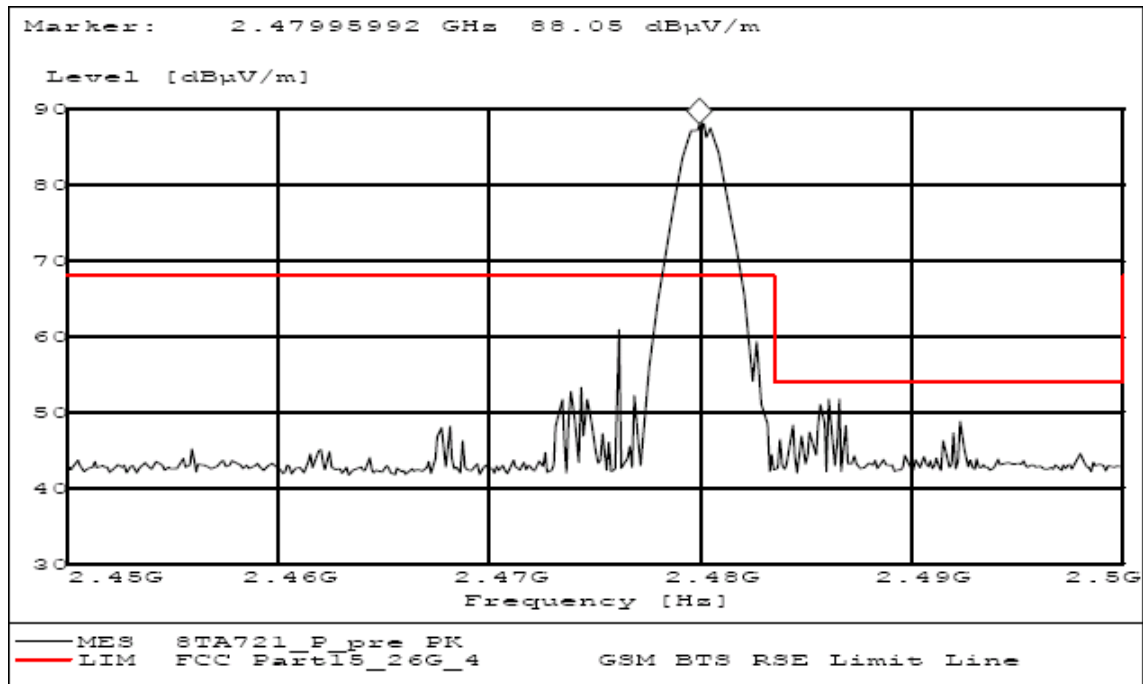


Fig. 23 Radiated emission (Power): 2.45GHz ~ 2.5GHz

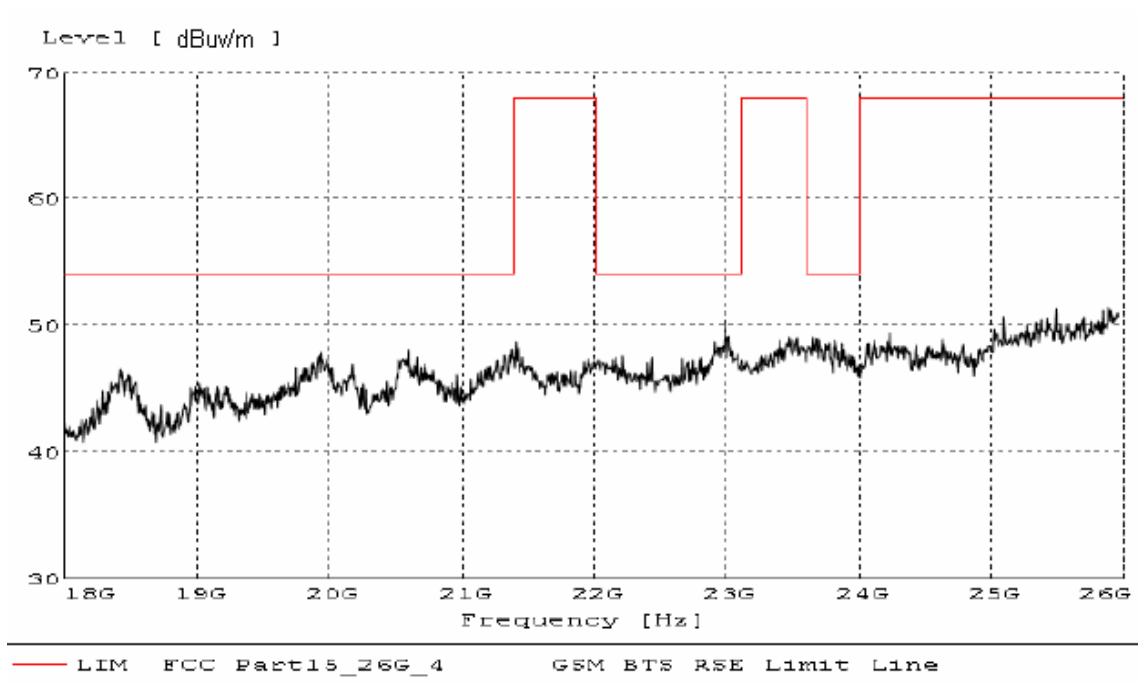
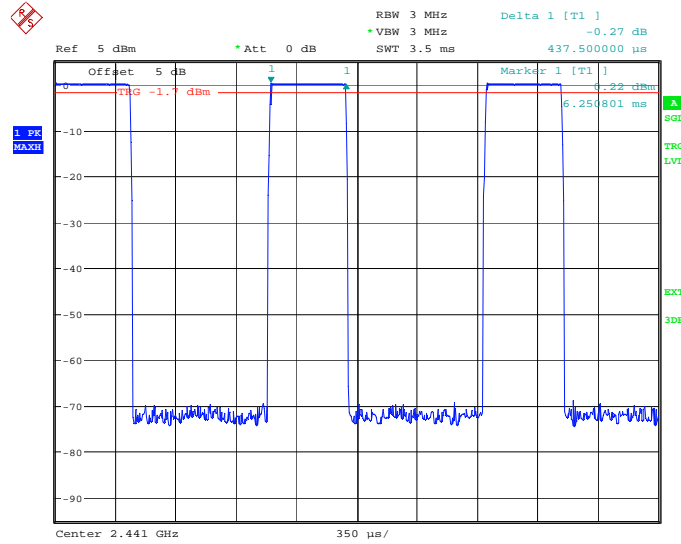
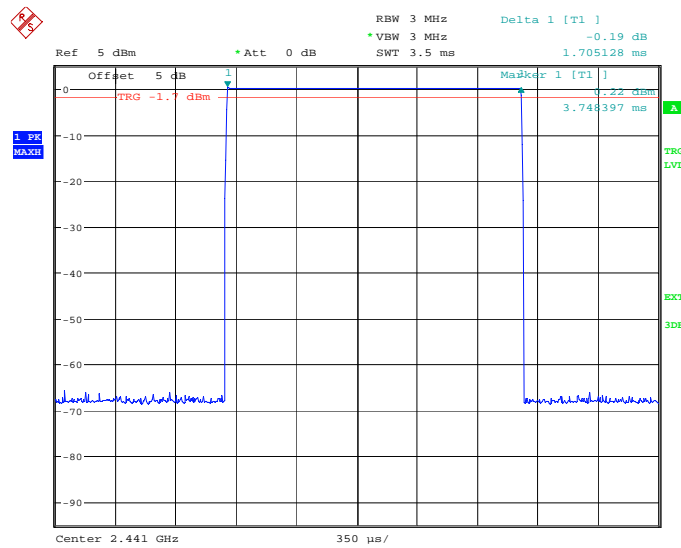


Fig. 24 Radiated emission: 18 GHz ~ 26 GHz



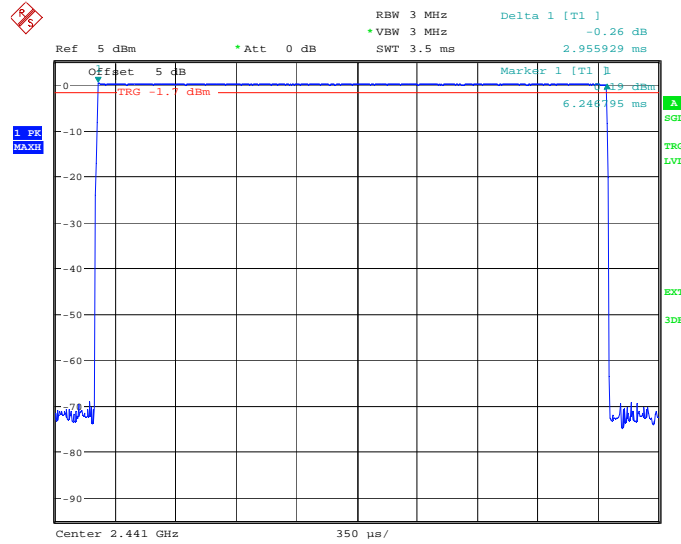
Date: 6.OCT.2008 10:34:46

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



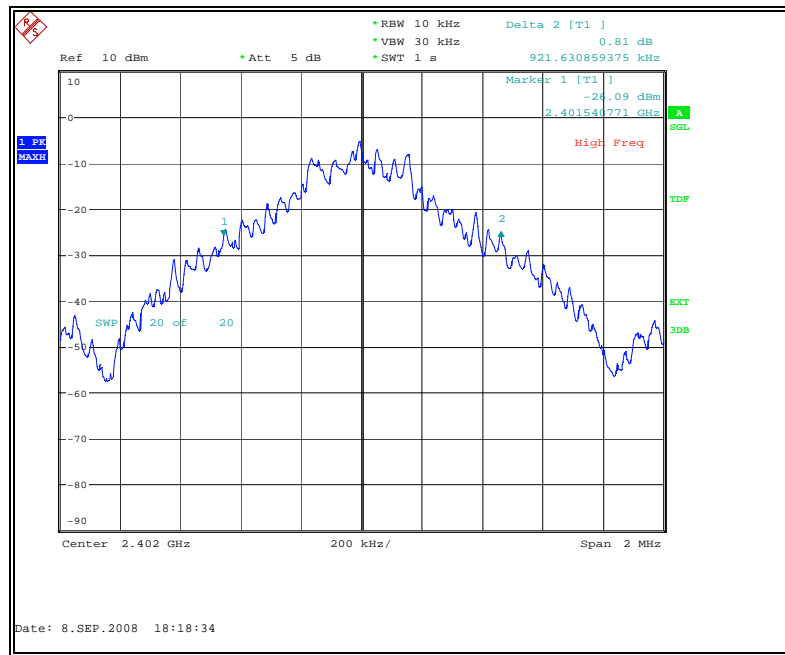
Date: 6.OCT.2008 10:32:47

Fig. 26 Time of occupancy (Dwell Time): Channel 39, Packet DH3



Date: 6.OCT.2008 10:30:17

Fig. 27 Time of occupancy (Dwell Time): Channel 39, Packet DH5



Date: 8.SEP.2008 18:18:34

Fig. 28 20dB Bandwidth: Channel 0

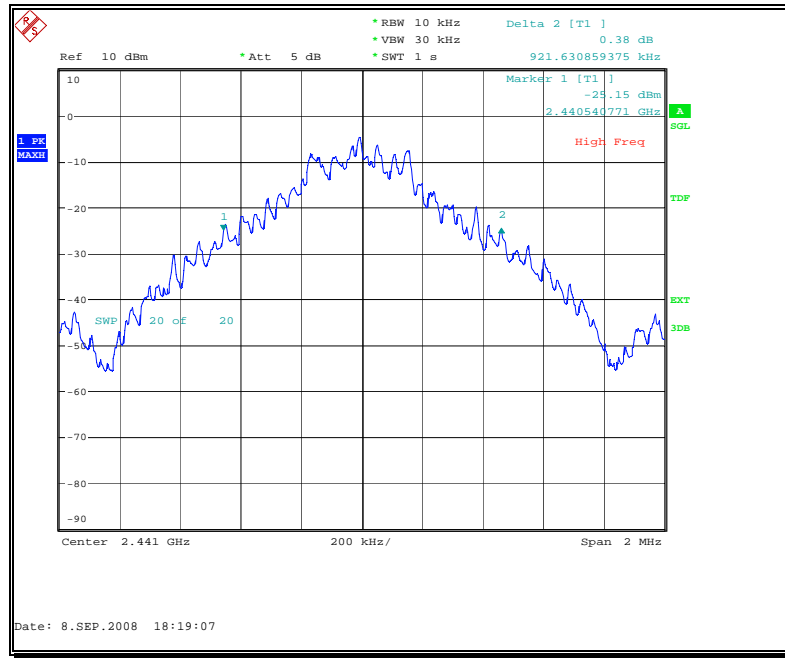


Fig. 29 20dB Bandwidth: Channel 39

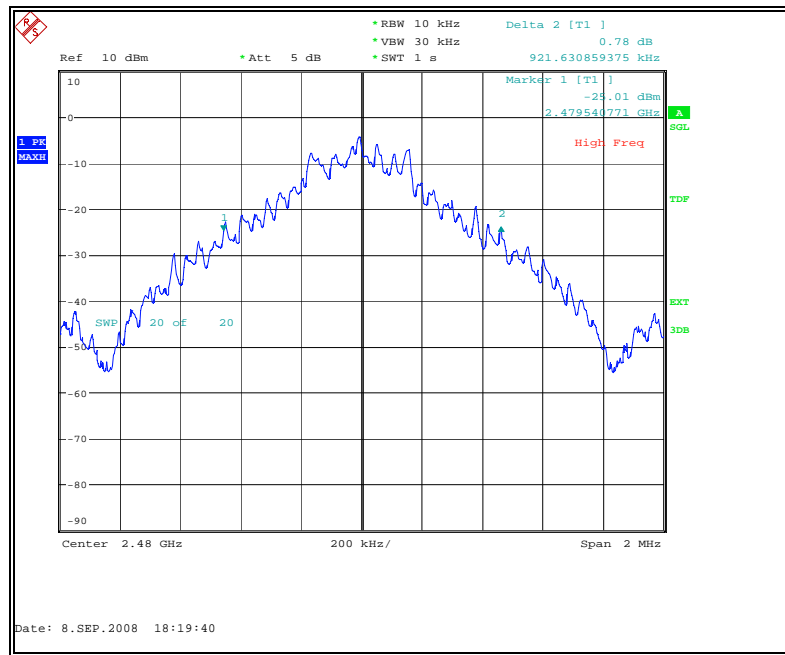


Fig. 30 20dB Bandwidth: Channel 78

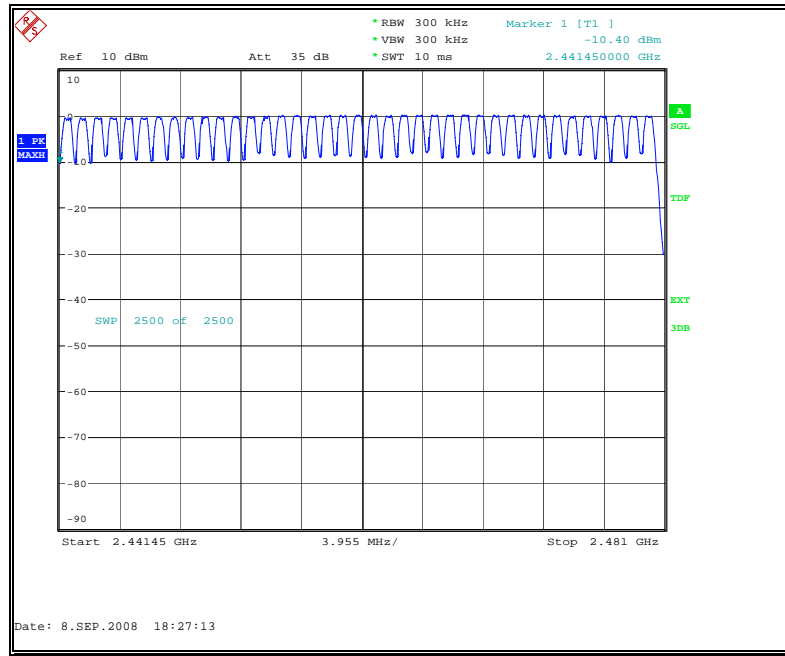


Fig. 33 Number of hopping frequencies: Channel 40 - 78

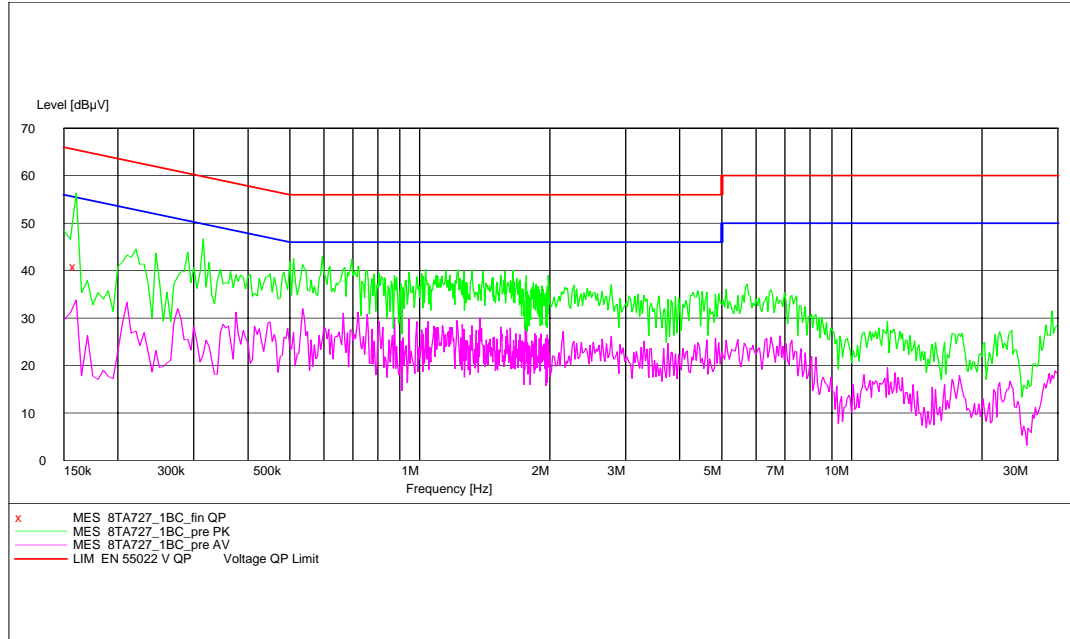


Fig. 34 AC Powerline Conducted Emission

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line	PE
0.160000	40.90	10.1	66	24.6	L1	GND

ANNEX D: TEST LAYOUT



Photo of Radiated Emission Test



Photo of AC Powerline Conducted Emission Test

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