



FCC PART 15C TEST REPORT

No. 2010TAR339

for

Motorola, Inc. (Mobile Devices Business)

GSM/GPRS 850/1900 dual-band mobile phone

Marketing Name: WX295

With

FCC ID: IHDT56LZ2

Hardware Version: Lot0

Software Version: V568

Issued Date: 2010-08-24



No. DGA-PL-114/01-02

DAR accreditation (DIN EN ISO/IEC 17025): No. DGA-PL-114/01-02

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.

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: Shouxiang Science Building, No 51, Xueyuan Road, Haidian District,
Beijing, P.R.China
Postal Code: 100191
Telephone: 00861062304633
Fax: 00861062304793

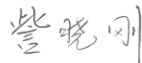
1.2. Testing Environment

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

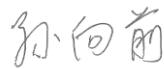
1.3. Project data

Project Leader: Zi Xiaogang
Testing Start Date: 2010-08-09
Testing End Date: 2010-08-24

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.
Contact: Mike Roper (Mr.)
Email: Mike.roper@motorola.com
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
Contact: Zhizhou Gong
Email: zhizhou.gong@jrdcom.com
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	IHDT56LZ2
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
N01	012244001743566	Lot0	V568
N04	012244001743541	Lot0	V568

*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	SNN5882A	/
AE3	Travel Adapter	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 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 °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

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. = 30 %, 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 80 to 2000 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	2011-06-19
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	2011-04-29
3	EMI Antenna	3117	00034610	EMCO	2011-06-30
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	2011-08-13
7	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2011-08-12
8	Pre-amplifier(18GHz)	/	1005277	Rohde & Schwarz	/
9	Pre-amplifier(26.5GHz)	/	1005277	Rohde & Schwarz	/

Anechoic chamber

Fully anechoic chamber by Frankonia German.

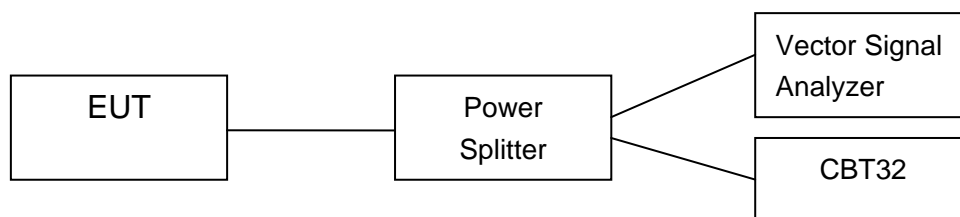
ANNEX A: MEASUREMENT RESULTS

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

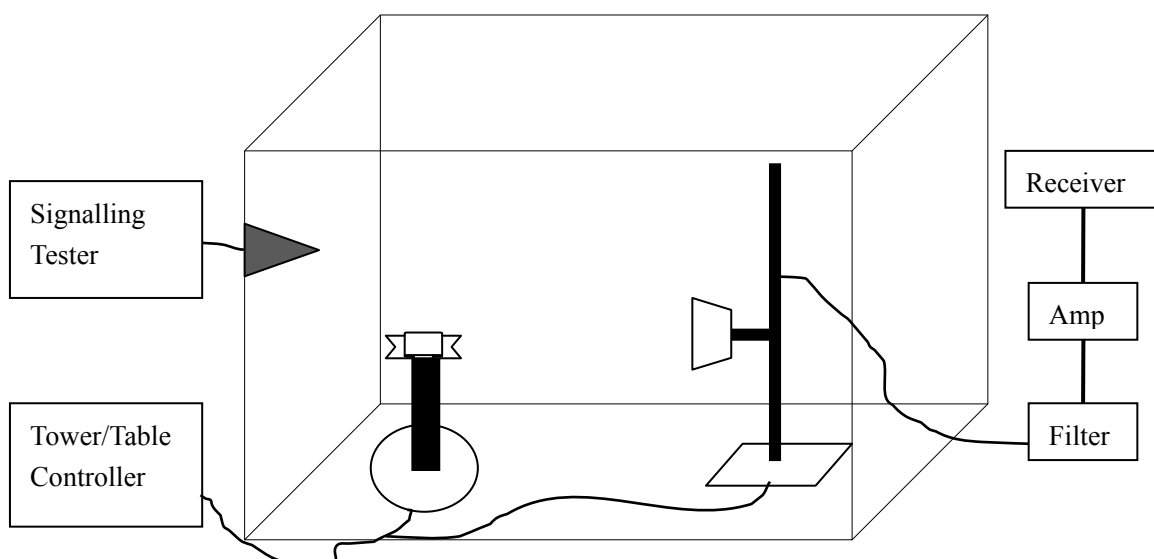
The measurement is made according to Public notice DA 00-705 and ANSI C63.4

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

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:

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	Sweeptime
Hopping OFF	1MHz	1MHz	5MHz	2.5ms

Measurement Results:

For GFSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	7.04	6.89	7.43	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.

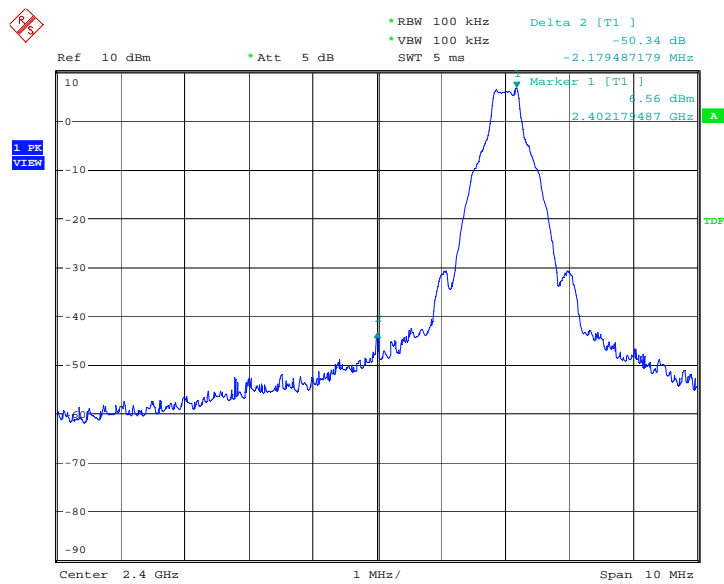
Measurement Result:

For GFSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.1	-50.34	P
	Hopping ON	Fig.2	-54.98	P
78	Hopping OFF	Fig.3	-59.10	P
	Hopping ON	Fig.4	-58.99	P

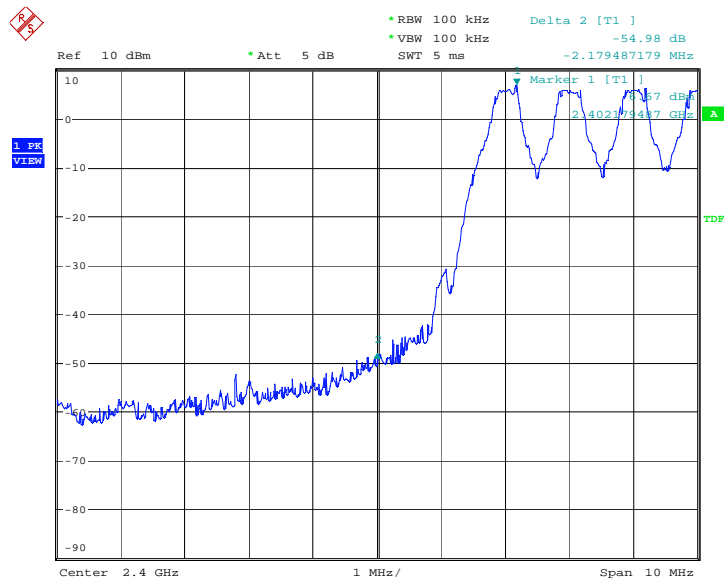
Conclusion: PASS

Test graphs as below



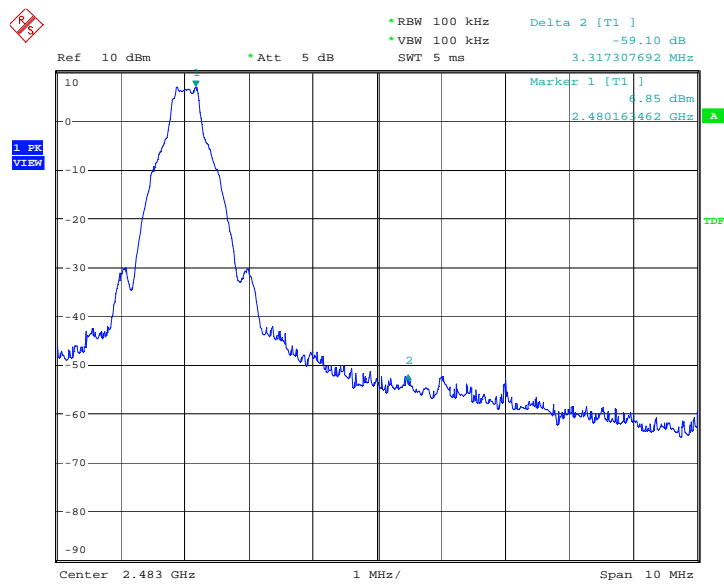
Date: 9.AUG.2010 02:27:27

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



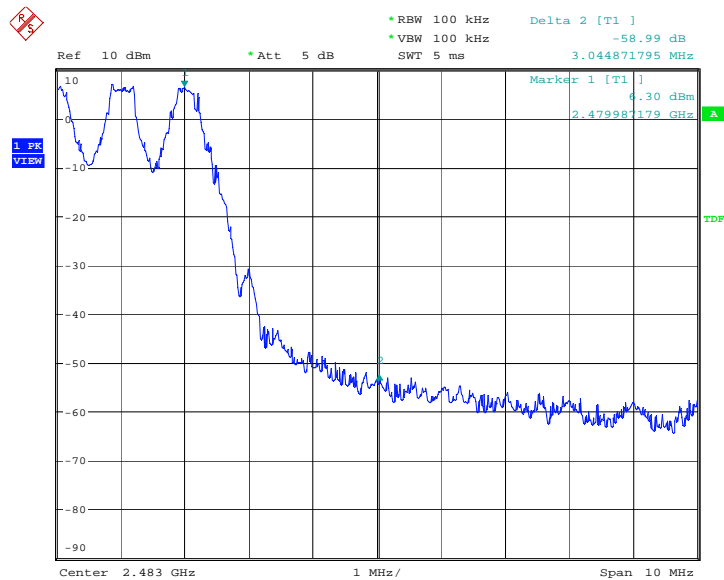
Date: 9.AUG.2010 02:29:47

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



Date: 9.AUG.2010 02:27:44

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



Date: 9.AUG.2010 02:31:49

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

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

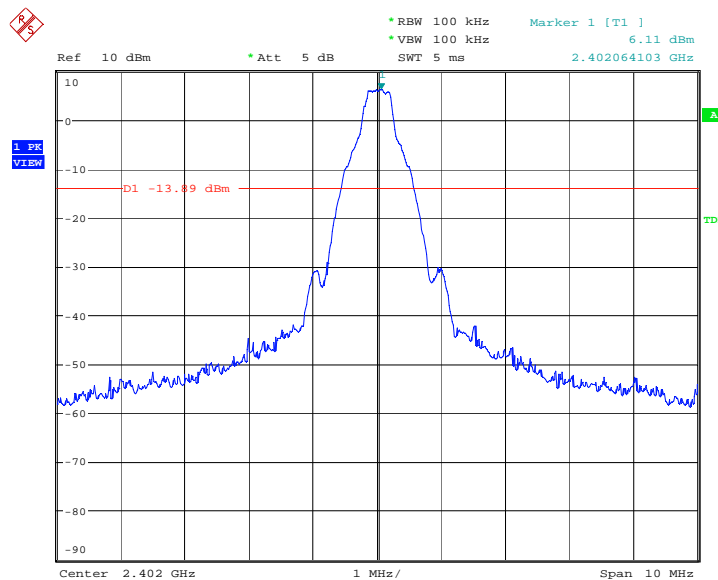
Measurement Results:

For GFSK

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

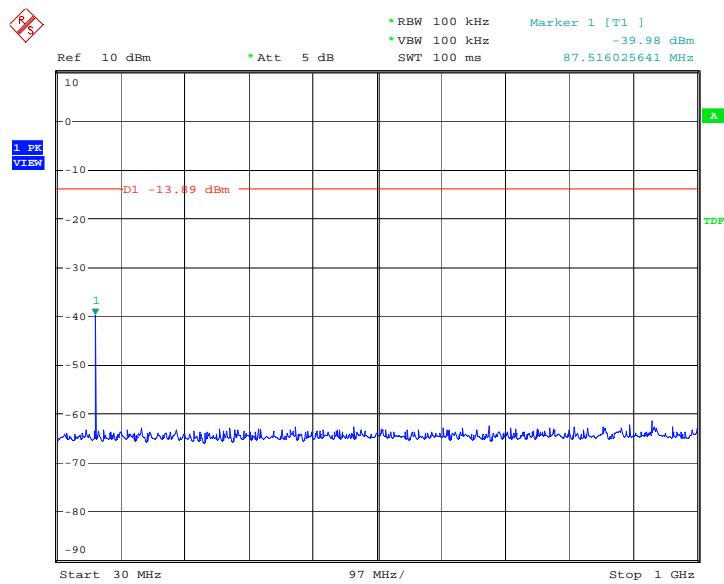
Conclusion: PASS

Test graphs as below



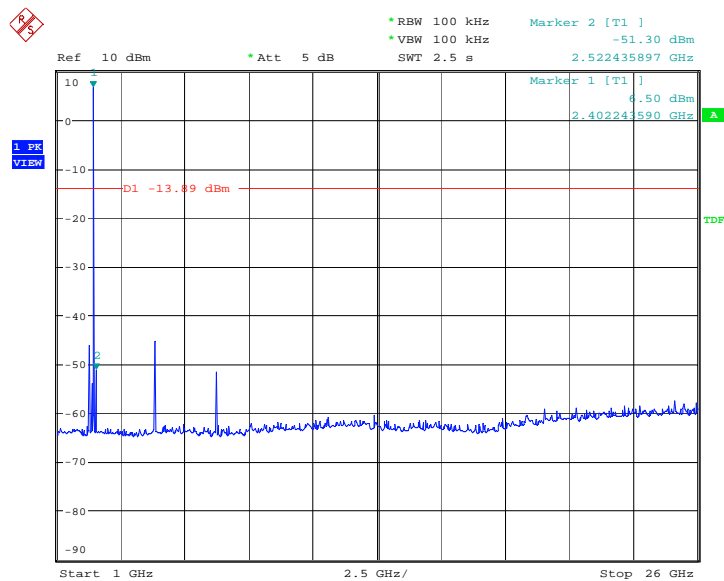
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Fig.5 Conducted spurious emission: GFSK, Channel 0,2402MHz



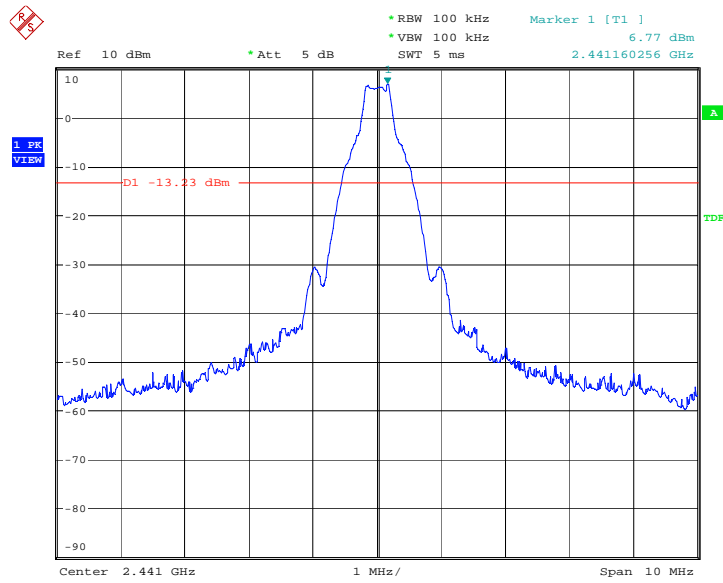
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Fig.6 Conducted spurious emission: GFSK, Channel 0, 30MHz - 1GHz



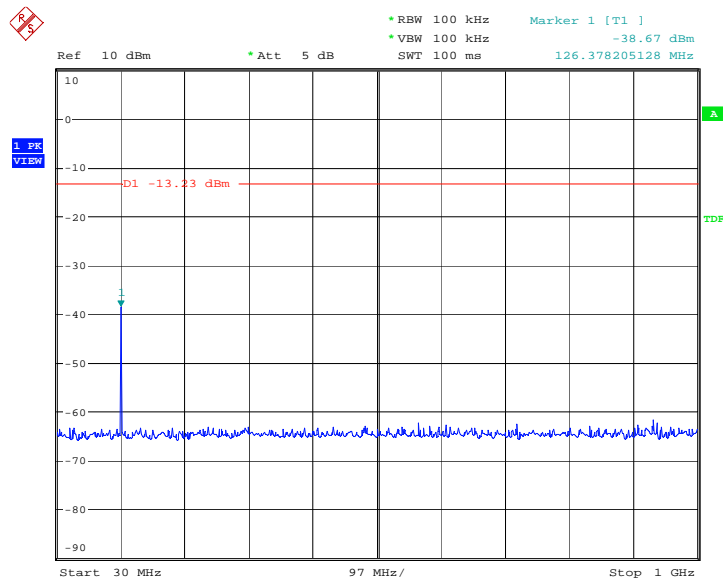
Date: 9.AUG.2010 02:32:55

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



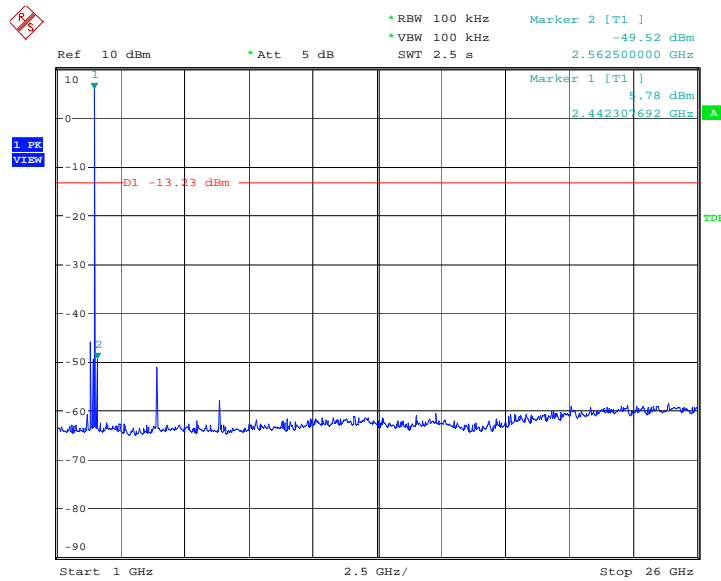
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Fig.8 Conducted spurious emission: GFSK, Channel 39, 2441MHz



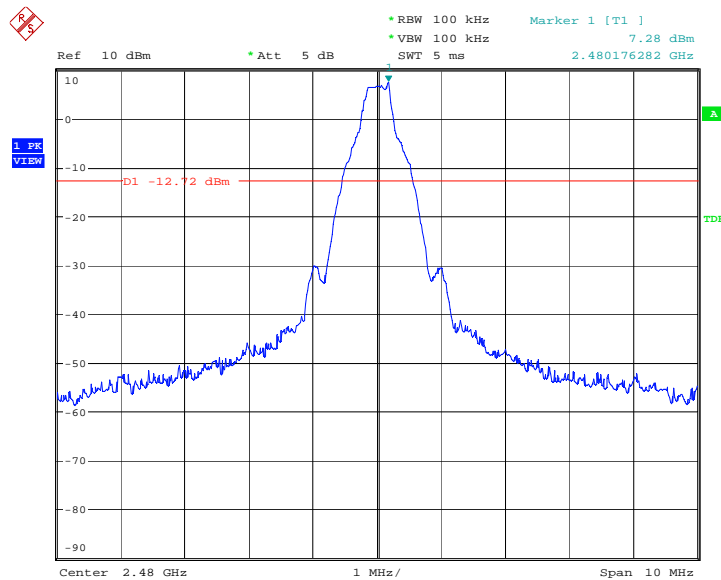
Date: 9.AUG.2010 02:33:29

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



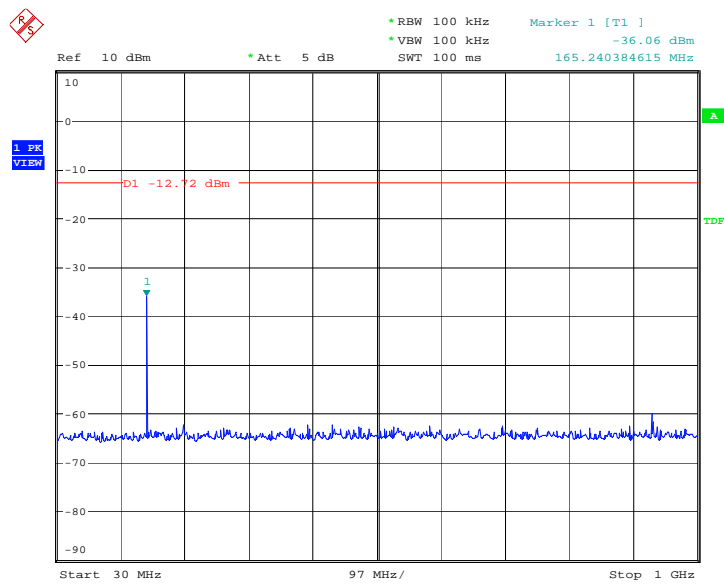
Date: 9.AUG.2010 02:34:00

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



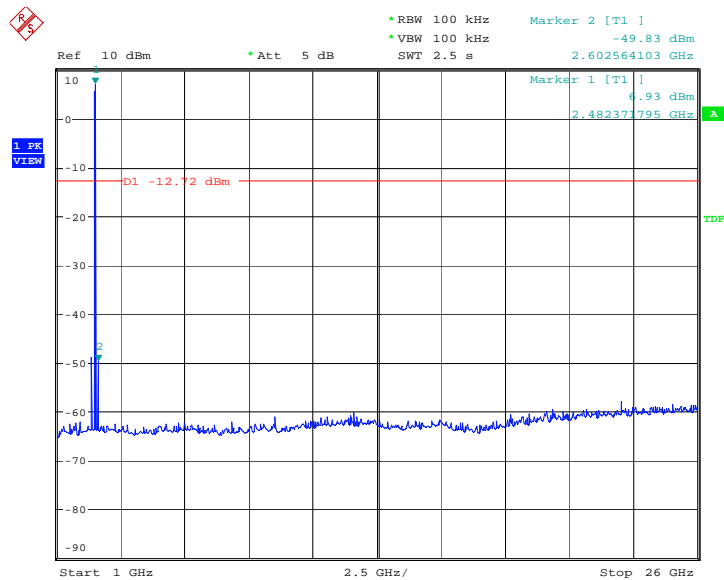
Date: 9.AUG.2010 02:34:17

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



Date: 9.AUG.2010 02:34:33

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



Date: 9.AUG.2010 02:35:05

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

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

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:

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:

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

For GFSK

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	30 MHz ~ 1 GHz	Fig.20	P

2480 MHz	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

GFSK Ch 0

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2482.966	51.7	9.4	42.3	VERTICAL
2478.958	51.35	9.1	42.25	VERTICAL
3655.311	51.19	14.1	37.09	HORIZONTAL
2531.062	50.92	10.3	40.62	HORIZONTAL
3963.928	50.51	14.4	36.11	HORIZONTAL
3507.014	50.5	14.5	36	HORIZONTAL

GFSK Ch 39

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
3713.427	50.38	14.5	35.88	HORIZONTAL
3444.89	50.3	11.9	38.4	HORIZONTAL
3683.367	50.02	14.2	35.82	HORIZONTAL
3813.627	50.02	14.1	35.92	HORIZONTAL
3478.958	49.97	12.2	37.77	HORIZONTAL
3757.515	49.84	14.2	35.64	HORIZONTAL

GFSK Ch 78

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
3663.327	50.24	14.1	36.14	HORIZONTAL
3442.886	49.92	11.9	38.02	HORIZONTAL
3835.671	49.79	14	35.79	HORIZONTAL
3525.05	49.76	14.2	35.56	HORIZONTAL
3873.747	49.73	14.4	35.33	HORIZONTAL
3681.363	49.69	14.2	35.49	HORIZONTAL

Conclusion: PASS

Test graphs as below:

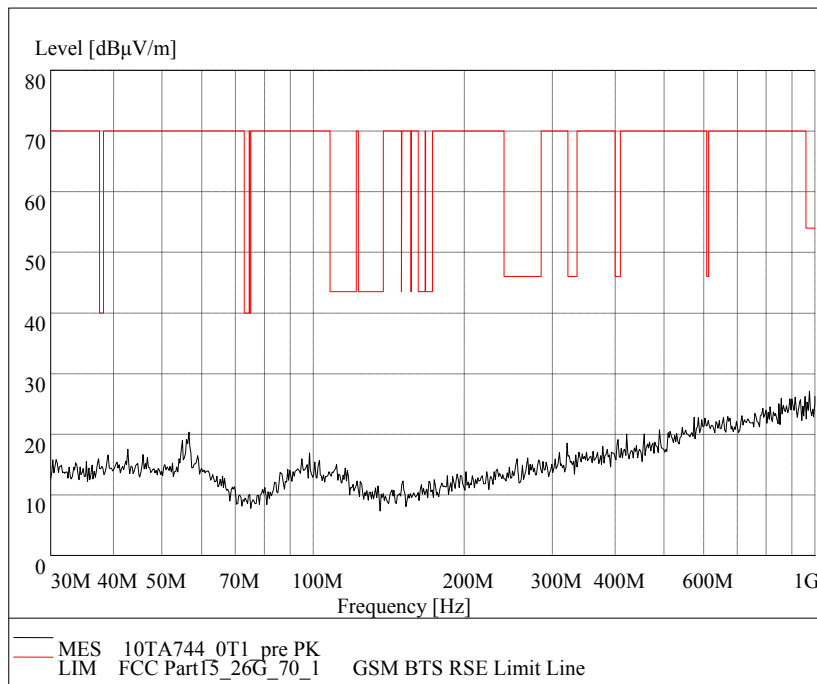


Fig.14 Radiated emission: GFSK, Channel 0, 30 MHz - 1 GHz

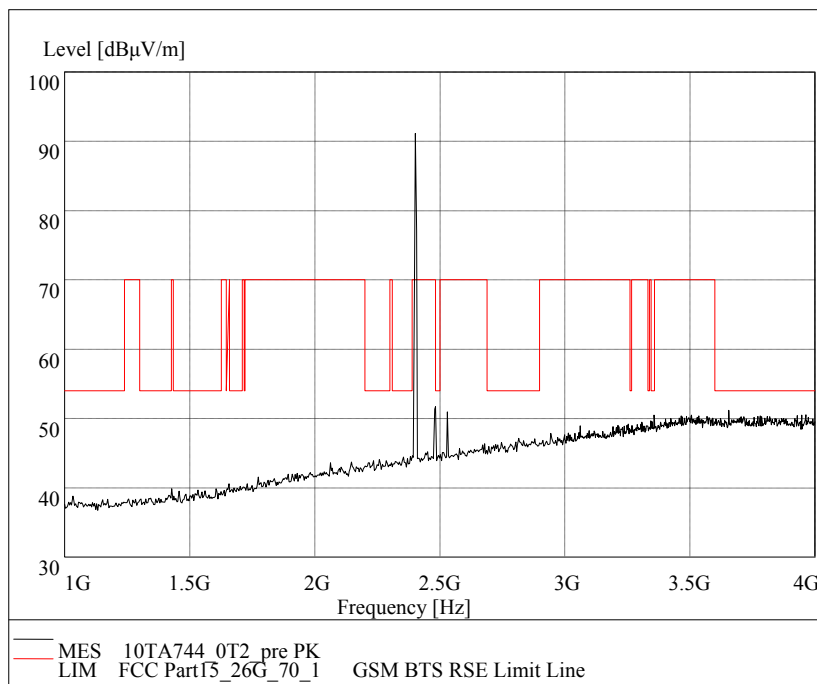


Fig.15 Radiated emission: GFSK, Channel 0, 1 GHz - 4 GHz

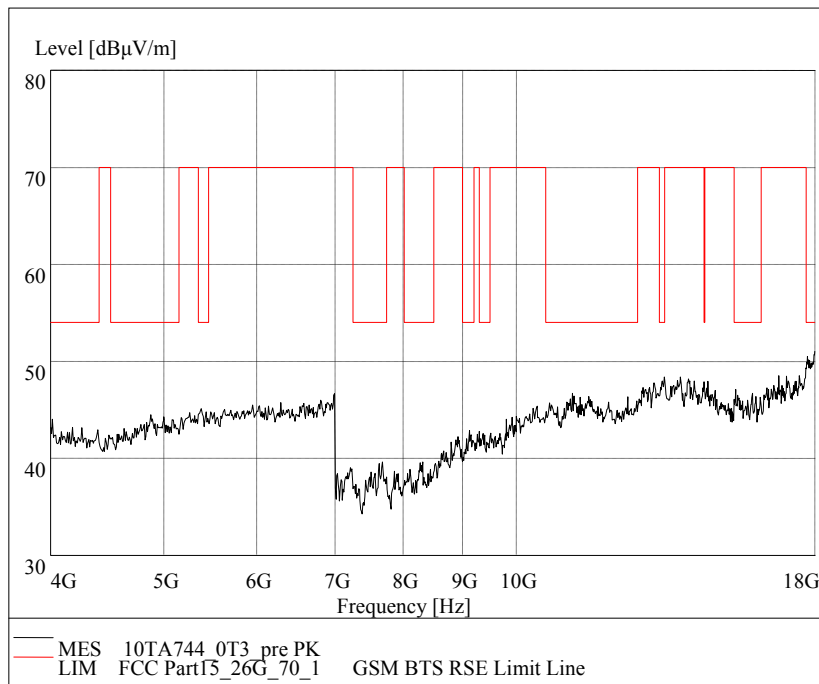


Fig.16 Radiated emission: GFSK, Channel 0, 4 GHz - 18 GHz

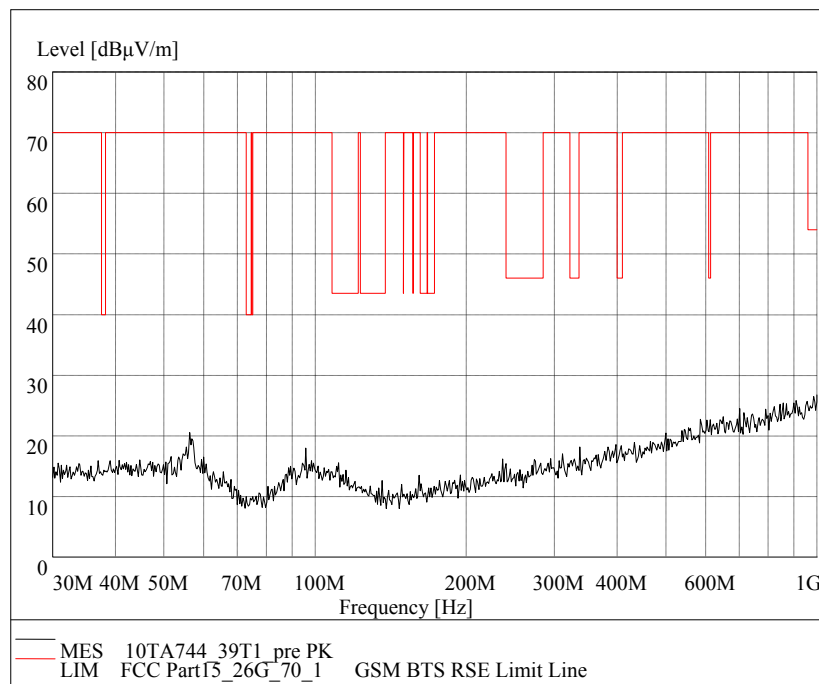


Fig.17 Radiated emission: GFSK, Channel 39, 30 MHz - 1 GHz

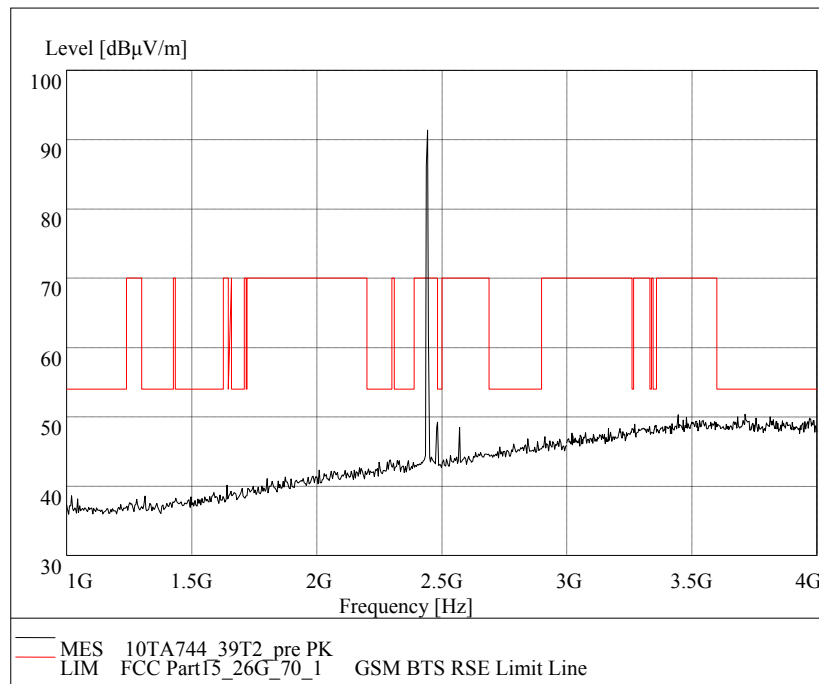


Fig.18 Radiated emission: GFSK, Channel 39, 1 GHz - 4 GHz

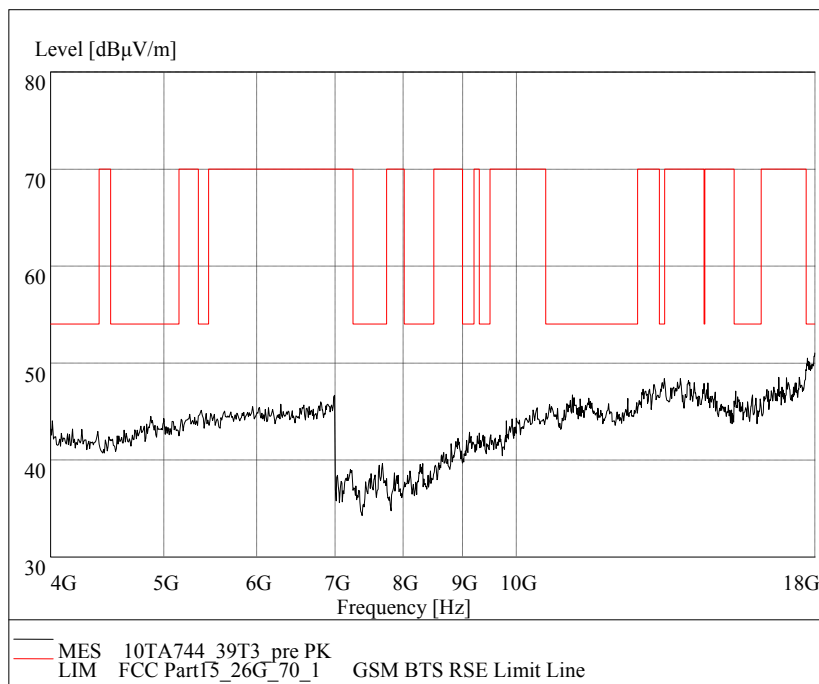


Fig.19 Radiated emission: GFSK, Channel 39, 4 GHz - 18 GHz

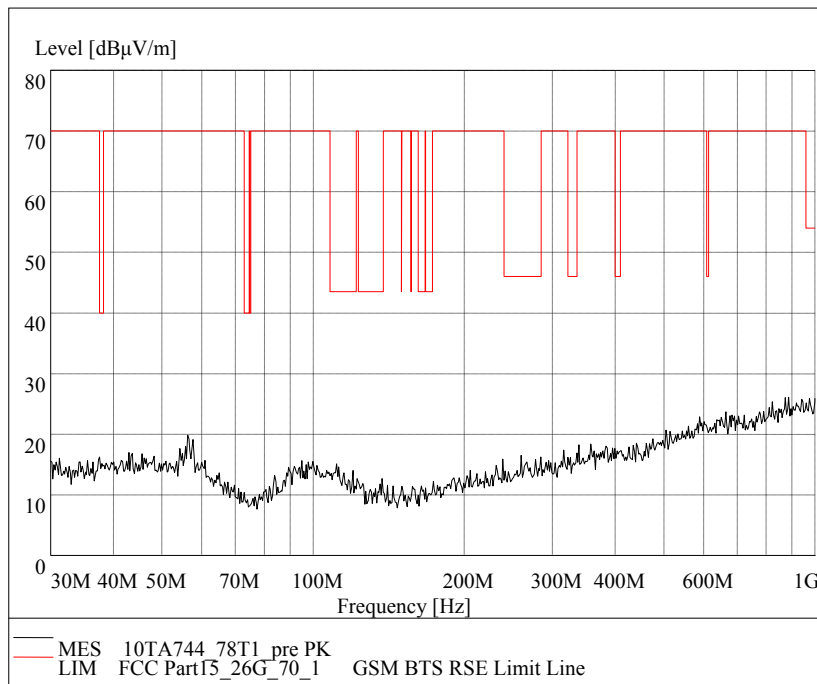


Fig.20 Radiated emission: GFSK, Channel 78, 30 MHz - 1 GHz

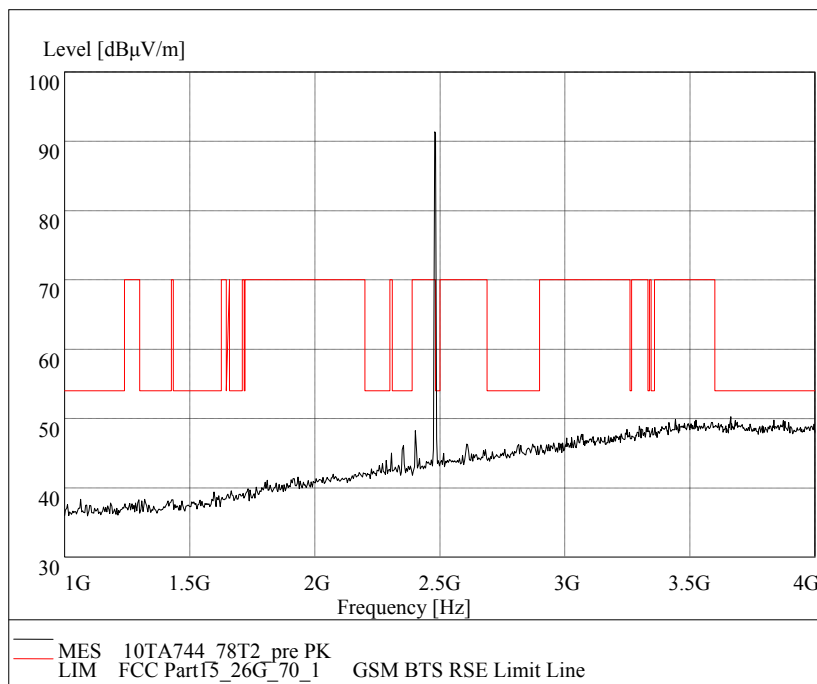


Fig.21 Radiated emission: GFSK, Channel 78, 1 GHz - 4 GHz

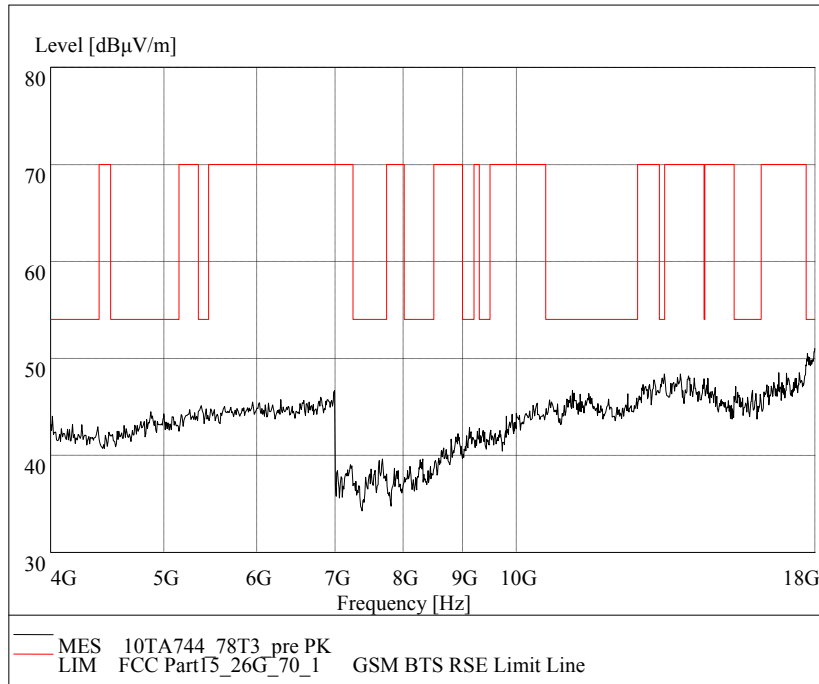
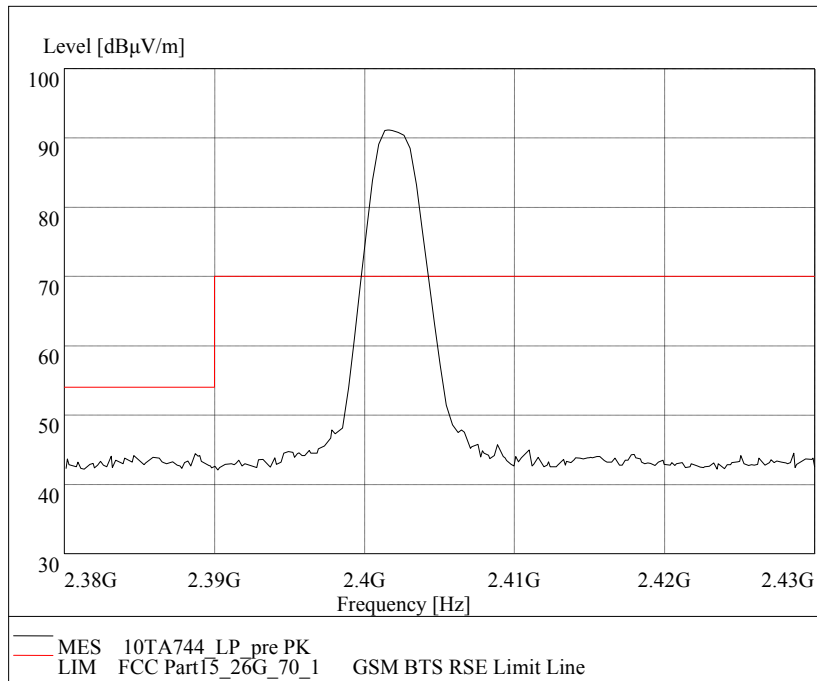


Fig.22 Radiated emission: GFSK, Channel 78, 4 GHz - 18 GHz



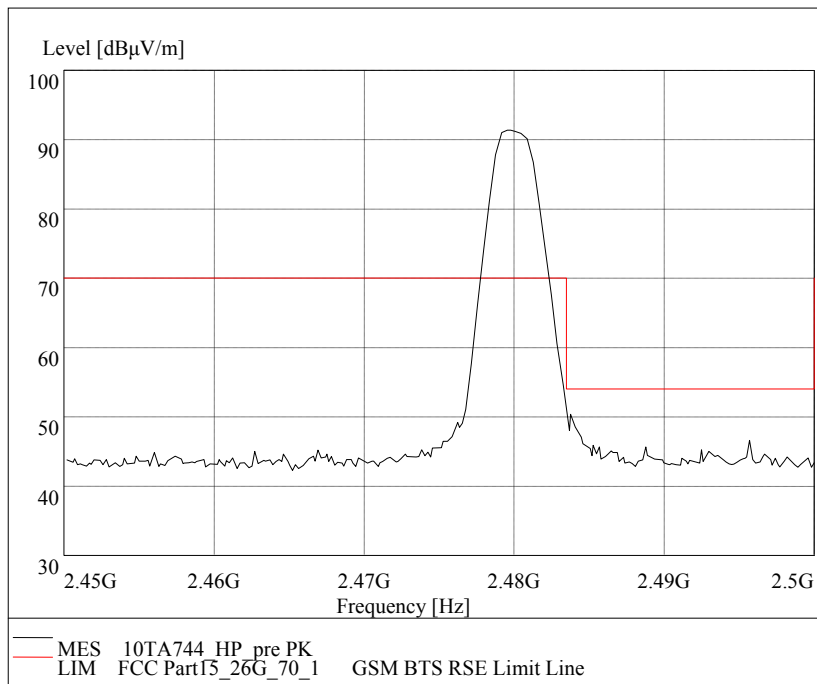


Fig.23 Radiated emission (Power): GFSK,

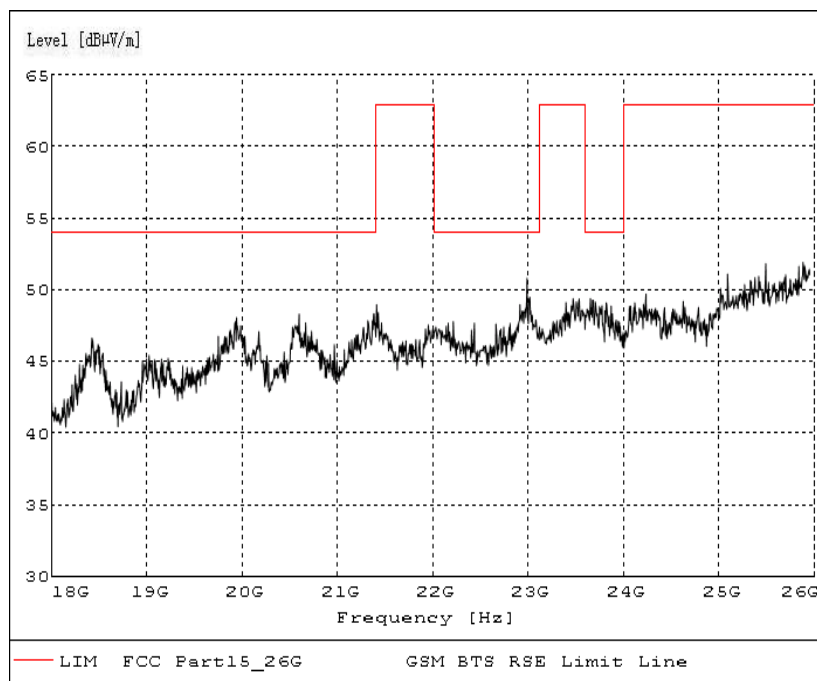


Fig.24 Radiated emission: GFSK, 18 GHz - 26 GHz

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

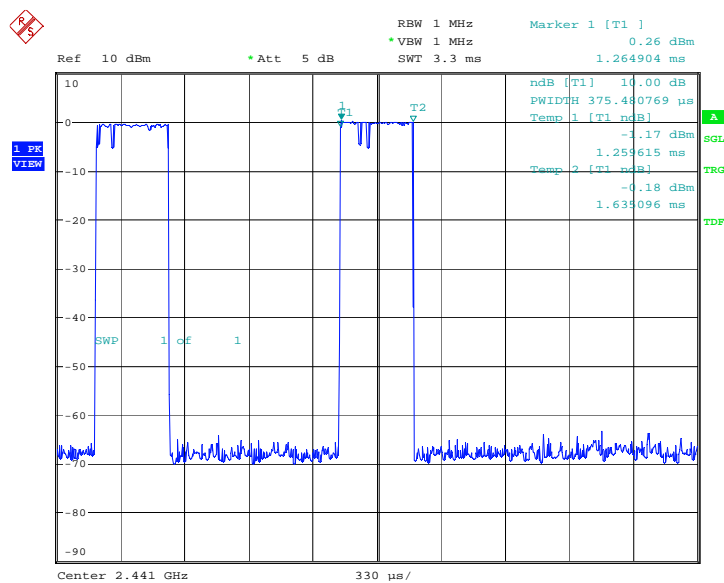
Measurement Result:

For GFSK

Channel	Packet	Dwell Time (ms)	Conclusion	
39	DH1	Fig.25	106.64	P
		Fig.26		
	DH3	Fig.27	168.86	P
		Fig.28		
	DH5	Fig.29	234.74	P
		Fig.30		

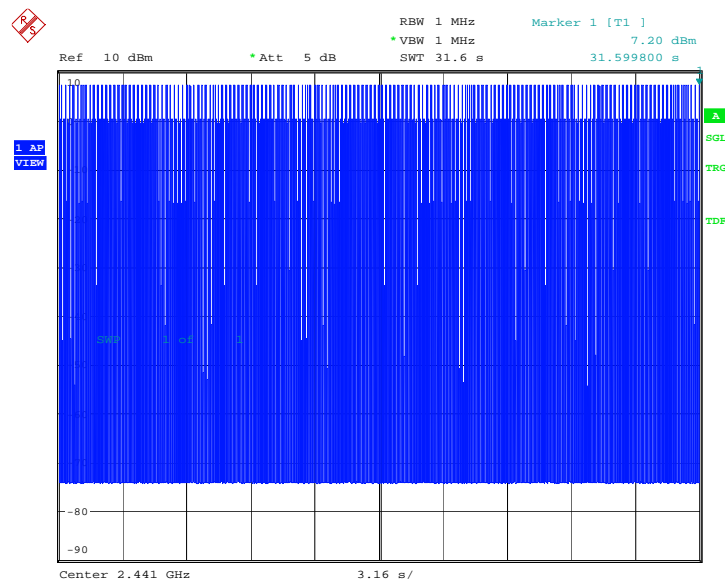
Conclusion: PASS

Test graphs as below:



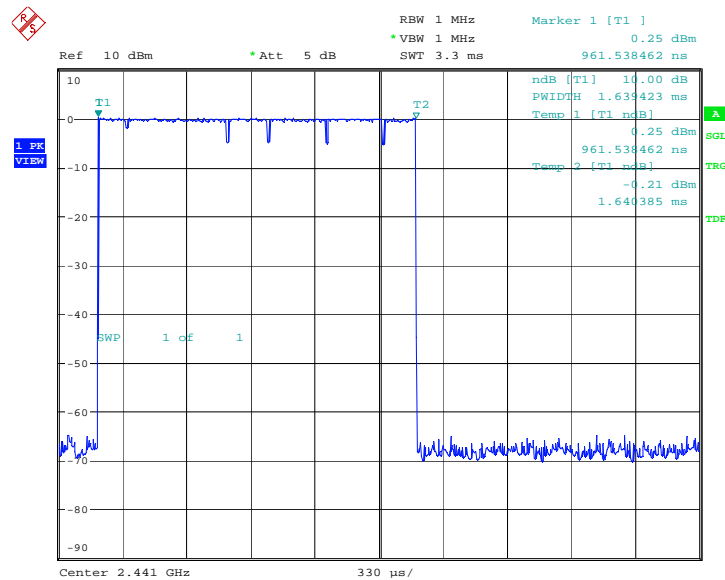
Date: 9.AUG.2010 02:36:32

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



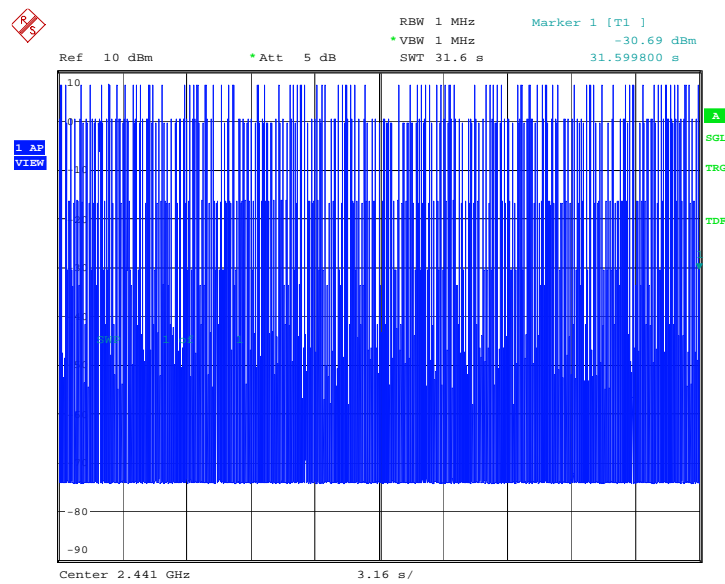
Date: 9.AUG.2010 02:36:20

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



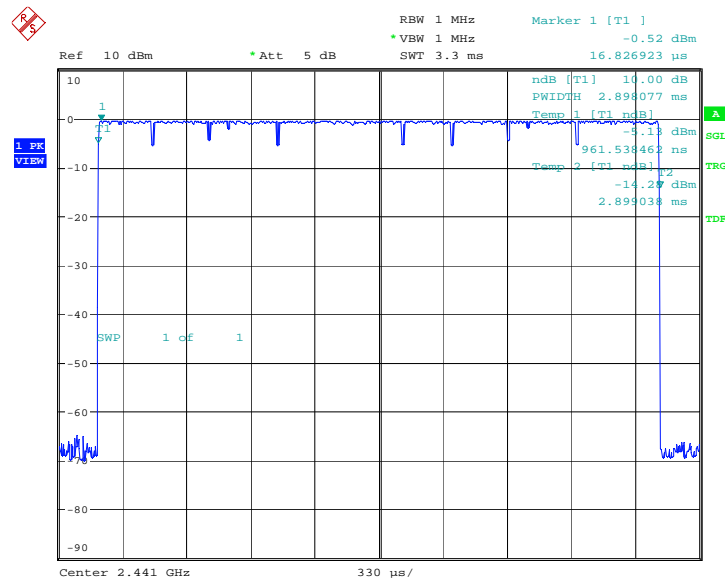
Date: 9.AUG.2010 02:37:51

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



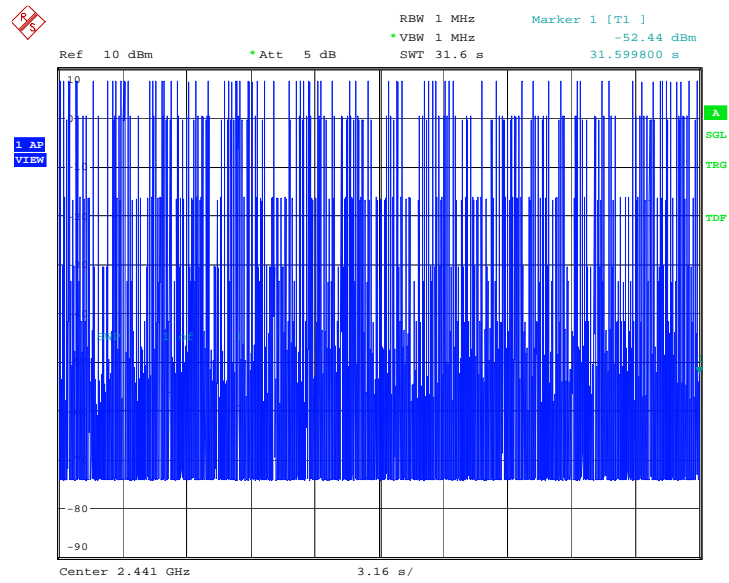
Date: 9.AUG.2010 02:37:39

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



Date: 9.AUG.2010 02:39:08

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



Date: 9.AUG.2010 02:38:57

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

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.

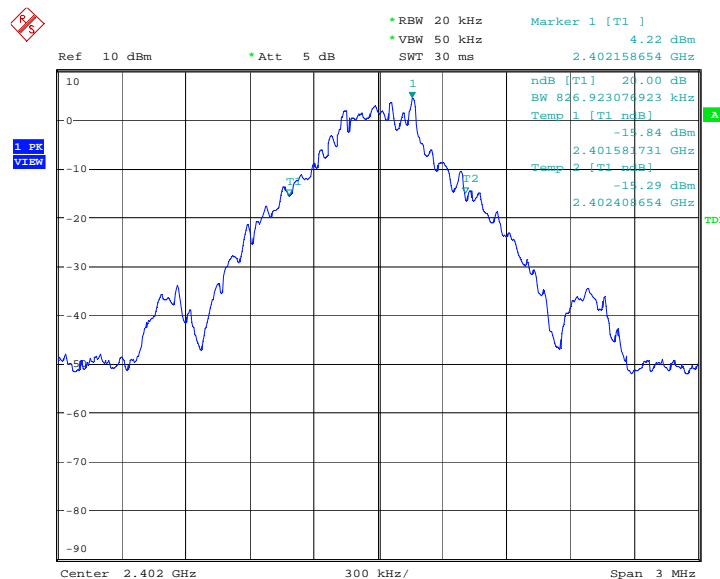
Measurement Results:

For GFSK

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.31	826.92	NA
39	Fig.32	865.38	NA
78	Fig.33	865.38	NA

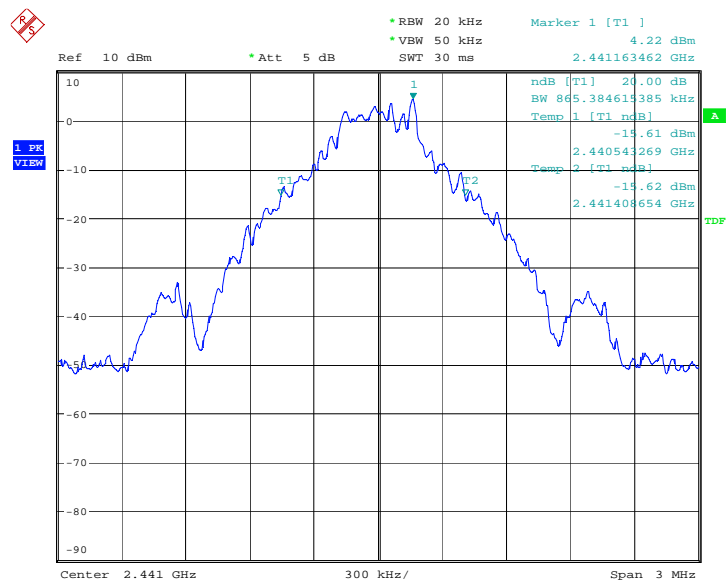
Conclusion: NA

Test graphs as below:



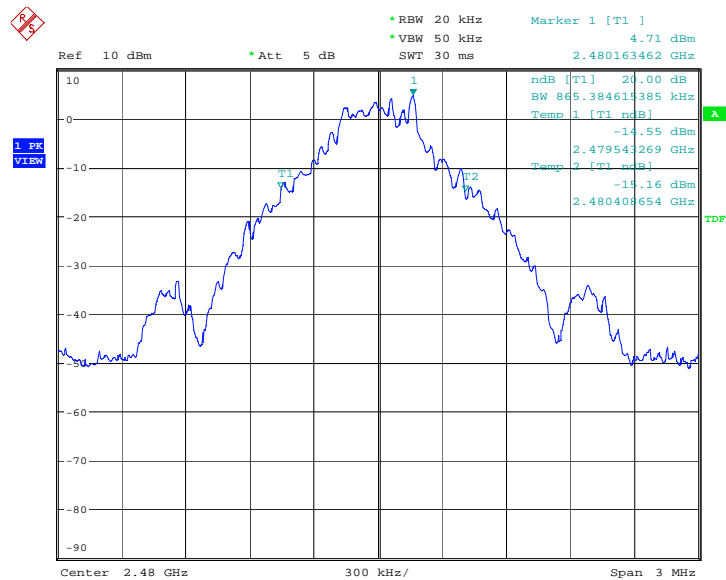
Date: 9.AUG.2010 02:39:42

Fig.31 20dB Bandwidth: GFSK, Channel 0



Date: 9.AUG.2010 02:40:13

Fig.32 20dB Bandwidth: GFSK, Channel 39



Date: 9.AUG.2010 02:40:45

Fig.33 20dB Bandwidth: GFSK, Channel 78

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.

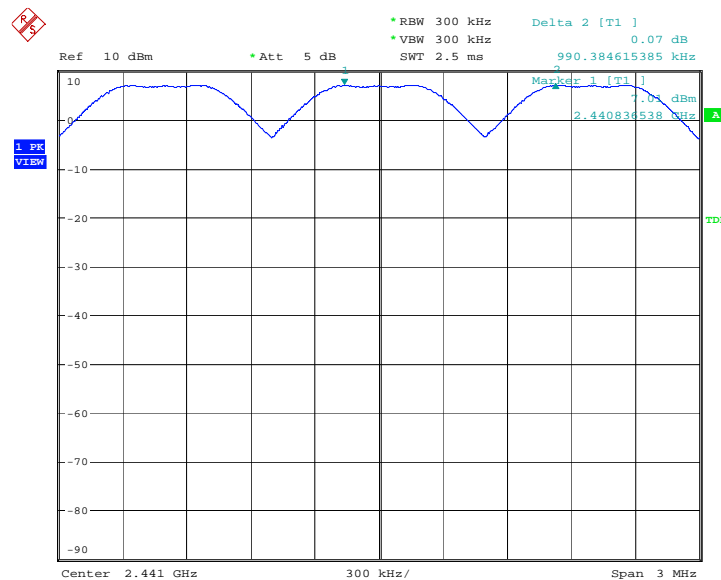
Measurement Result:

For GFSK

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

Conclusion: PASS

Test graphs as below:



Date: 9.AUG.2010 02:42:48

Fig.34 Carrier frequency separation measurement: GFSK, Channel 39

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

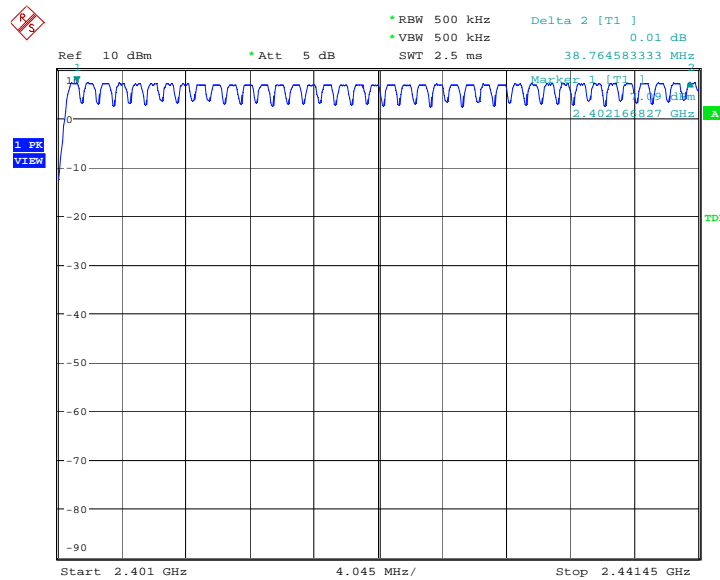
Measurement Result:

For GFSK

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

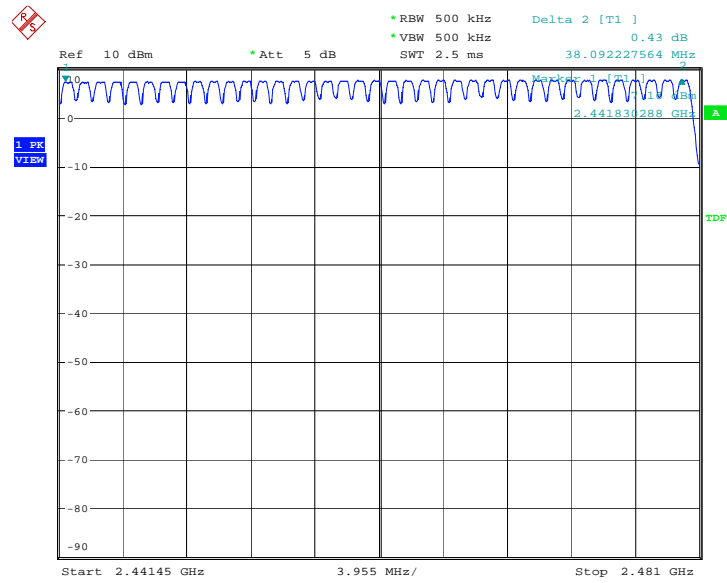
Conclusion: PASS

Test graphs as below:



Date: 9.AUG.2010 02:44:52

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



Date: 9.AUG.2010 02:46:54

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

A.10. AC Powerline Conducted Emission

Test Condition

Voltage (V)	Frequency (Hz)
120	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	
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

Conclusion: PASS

Test graphs as below:

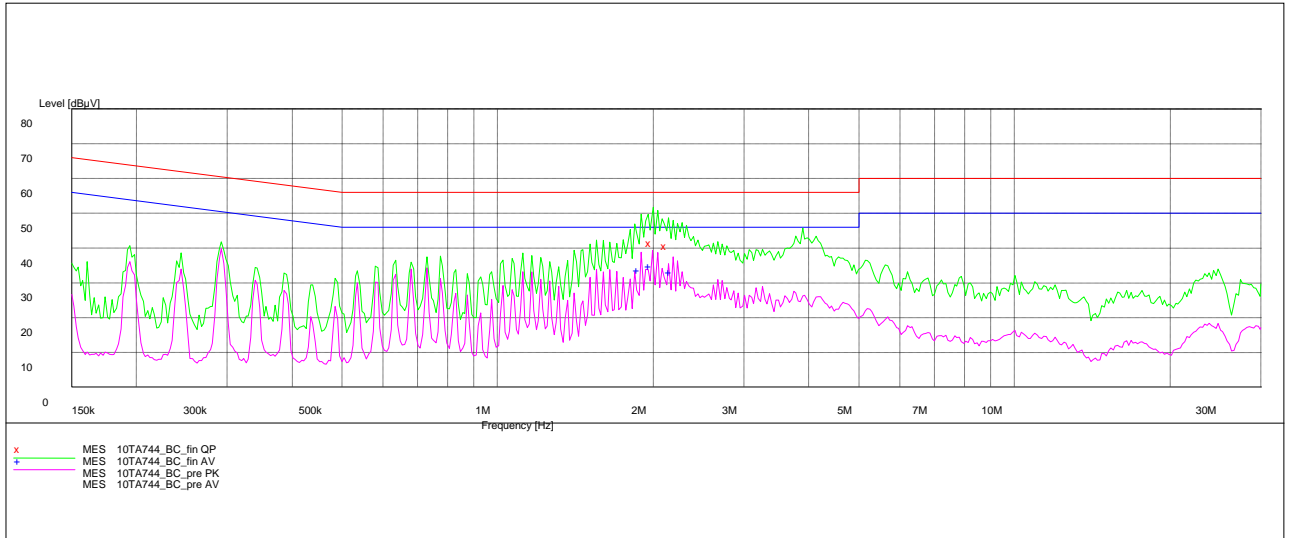


Fig.37 AC Powerline Conducted Emission with charger

MEASUREMENT RESULT: "10TA744_BC_fin QP"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
2.000000	45.70	10.1	56	10.3	L1	GND
2.144271	44.70	10.1	56	11.3	L1	GND

MEASUREMENT RESULT: "10TA744_BC_fin AV"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
1.896887	37.80	10.1	46	8.2	L1	GND
1.993648	39.20	10.1	46	6.8	L1	GND
2.187371	37.20	10.1	46	8.8	L1	GND

*** END OF REPORT BODY ***