

TEST REPORT

Report No: KST-FCR-090004

Applicant	Name	J COMMUNICATION CO.,LTD.
	Address	124-4 Ojeon-dong, Uiwang-Si Gyeonggi-do, Republic of Korea
Manufacturer	Name	J COMMUNICATION CO.,LTD.
	Address	124-4 Ojeon-dong, Uiwang-Si Gyeonggi-do, Republic of Korea
Equipment	Name	Video Car BlackBox
	Model No	JS-300G
	Serial No	None
	Usage	Driving record system for Radio communications
	FCC ID	OAJJS-300G
Test Standard	FCC CFR 47, Part 22H, Part 24E & Part 15	
Test Date(s)	2009. 08. 11 ~ 2009. 08. 13	
Issue Date	2009. 08. 14	
Test Result	Compliance	

Supplementary Information

The device bearing the brand name and FCC ID specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with measurement procedures specified in ANSI C 63.4-2003.

We attest to the accuracy of data and all measurements reported herein were performed by KOSTEC Co., Ltd. and were made under Chief Engineer's supervision. We assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Tested by Mi Young, Lee

Approved by Gyeong Hyeon, Park

Signature



Signature



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1. GENERAL INFORMATION

1.1 Test Facility

Test laboratory and address

KOSTEC Co., Ltd.

180-254, Annyeong-dong, Hwaseong-si, Gyeonggi-do, South Korea

The open area field test site and conducted measurement facility are used for these testing. This site at was fully described in a reports submitted to the Federal Communications Commission (FCC).

The details of these reports have been found to be in complies with the requirements of Section 2.948 of the FCC Rules on November 14, 2002. The facility also complies with the radiated and conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission (FCC) has the reports on file and KOSTEC Co., Ltd. is listed under FCC Registration No.525762. The test site has been approved by the FCC for public use and is List in the FCC Public Access Link CORES (Commission Registration System)

Registration information

KCC (Korea Communications Commission) Number : KR0041

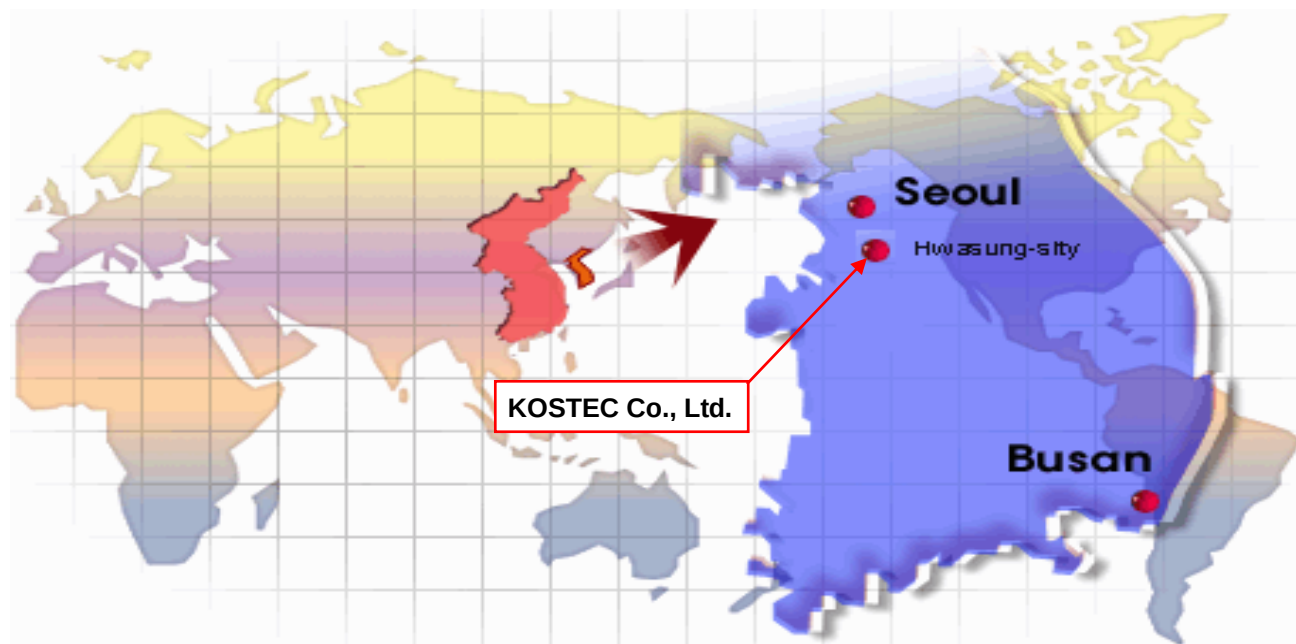
KOLAS(Korea laboratory accreditation Scheme) Number : 232

FCC Registration Number(FRN) : 525762

IC Company Number(C,N) : 8305A

VCCI Registration Number : R-1657 / C –1763

1.2 Location



2. EQUIPMENT DESCRIPTION

The product specification described herein was declared by manufacturer. And refer to user's manual for the details.

1) Equipment Name	Video Car BlackBox
2) Model No	JS-300G
3) Usage	Driving record system for Radio communications
4) Serial Number	None
5) ITU emission Code	290KGXW
6) Oscillation type	PLL (Phase Local Loop)
7) Communication access type	TDMA (Time Division Multiple Access)
8) Data Modulation	GMSK
9) Data Rate (kbps)	57.6 kbps
10) Operated Frequency	824.200 MHz ~ 848.800 MHz , 1 850.200 MHz ~1 909.800 MHz
11) RF Output Power	800 MHz band: 1.56 W _{erp}
	1 900 MHz band: 0.27 W _{eirp}
12) Channel spacing	200 KHz
13) Channel Number	850 MHz Band : 123 Ch, 1 900 MHz Band : 298 Ch
14) TX,RX Channel Separation	850 MHz Band : 45 MHz, 1 900 MHz Band : 80 MHz
15) Communication type	Full duplex
16) Weight / Dimension	157g / 119.5(L) mm x 55(W) mm x 31.7(D) mm
17) Operation temperature	- 40 °C ~ + 60 °C
18) Power Source	DC 12V ~ 24V (from External Car Adapter), 2 A
19) Antenna Description	Type: Dipole ANT, Connector type: SMA, Length: 104.8 mm Gain: 824~960 MHz (1.4 dBi), 1 710~1 990 MHz (0.2 dBi)

* RF Module inner this product is contained to both GSM and GPRS function

3. SYSTEM CONFIGURATION FOR TEST

3.1 Characteristics of equipment

This equipment is named a Video Car BlackBox with QUAD-BAND GPRS Module functions. and its operation basically this Module inner product is contain to both GSM and GPRS function, but only operation to GPRS function, because the intended use for in this designed product.

Link frequency are UP Link (880.2 MHz to 914.8 MHz and 1 710.2 MHz to 1 784.8 MHz), Down Link (925.2 MHz to 959.8 MHz and 1 805.2 MHz to 1 879.8 MHz), there are respectably 174 and 374 channels.

it is usage for radio transmitting through BTS, information of Car's accident state (ie; position, time, place, longitude and latitude, stopped picture of 1 frame during the contact between other car's, or crash etc) and In other word it is named a driver recording system which applies GPS(Global Positioning System),3D acceleration gravity sensor (G-Sensor).

for more detailed features description, please refer to the manufacturer's user manual.

3.2 Used peripherals list

Description	Model No.	Serial No.	Manufacture	Remark
Radio Communication Analyzer	MT8815A	6200429622	Anritsu Corporation	Call processing simulated base station equipment
External Power Supply	E3610A	KR24104505	Agilent Technology	Power supply for EUT

3.3 Product Modification

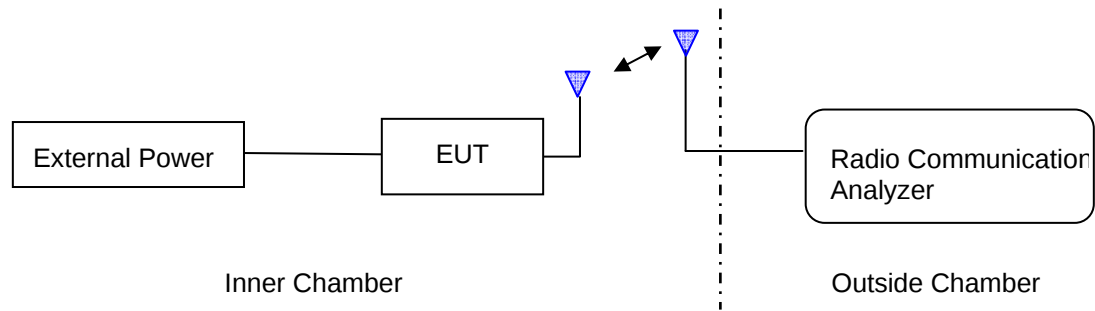
N/A

3.4 Operating Mode

The EUT was controlled via the Radio Communication Analyzer(MT885A) selecting maximum transmission Radiated power and GMSK modulated signal.

3.5 Test Setup of EUT

The EUT was placed on a 1.0 m high non-conductive stand inside an full pyramidal chamber and then, the EUT was controlled via Radio Communication Analyzer(MT885A) selecting maximum radiated emissions



※ This configuration is only RF spurious radiated emission measurement

3.6 Detail for Test Modes

The data rate shown in the table below is the Max. Data rate 57.6 kbps in GPRS reference

Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report

Test Items	Mode	Data Rate	Channel	Remark
Radiated spurious emissions	GMSK	57.6 kbps	128, 190, 251	850 MHz Band
			512, 662, 810	1 900 MHz Band

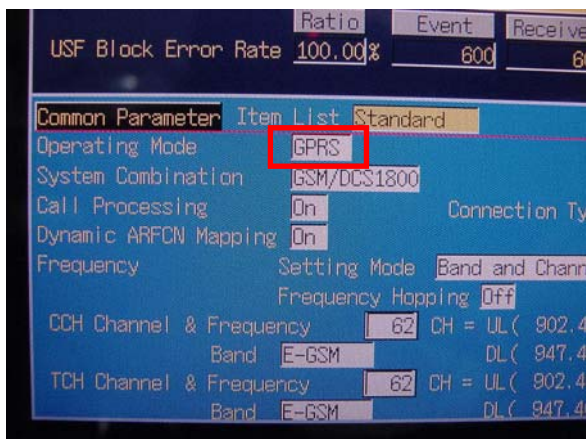
3.7 Table for Carrier frequencies

Frequency band (Up Link)	Measured Ch. and Frequency.		Remark
	Channel No	Frequency	Frequency (Down Link)
824.200 MHz ~ 848.800 MHz	128	824.200 MHz	869.200 MHz ~ 893.800 MHz
	190	836.600 MHz	
	251	848.800 MHz	
1 850.200 MHz ~ 1 909.800 MHz	512	1 850.200 MHz	1 930.200 MHz ~ 1 989.800 MHz
	662	1 887.400 MHz	
	810	1 909.800 MHz	

3.8 Parameters of Test Software Setting

The H/W version is 1.0 and S/W version is PS:05.03.00/ AL:07.01.002-B001-GE864-QUAD in GPRS Module declared by the manufacturer.

■ Test parameter selection



■ Radio Communication Analyzer



3.9 Used Test Equipment List

No.	Instrument	Model	Serial No.	Manufacturer	Due to Cal. Date	Used
1	Spectrum Analyzer	8563E	3846A10662	Agilent Technology	2010.05.20	☐
2	EMI Receiver	ER-265	L0804B002	LIG NEX1	2010.06.30	☒
4	LISN	ESH2-Z5	100044	Rohde & Schwarz	2010.03.16	☐
5	LISN	ESH3-Z5	100147	Rohde & Schwarz	2009.06.25	☐
6	Bi-Log Antenna	3142	9701-1128	EMCO	2009.11.13	☒
7	Ultra broadband Antenna	HL562	100076	Rohde & Schwarz	2010.04.14	☐
8	Dipole Antenna	HZ-12	100005	Rohde & Schwarz	2010.04.03	☒
9	Dipole Antenna	HZ-13	100007	Rohde & Schwarz	2010.04.03	☐
10	Horn Antenna	BBHA9120D233	0501	SCHWAEZBECK	2010.09.10	☒
11	Loop Antenna	6502	9203-0493	EMCO	2009.06.15	☐
12	Digital Signal Generator	E4436B	US39260458	HP	2010.05.20	☐
13	Tracking CW Signal Source	85645A	070521-A1	HP	2010.05.20	☒
14	RF Power Amplifier	8347A	3307A01571	HP	2010.05.20	☐
15	Microwave Amplifier	8349B	2627A01037	HP	2010.05.20	☐
16	Attenuator	8498A	3318A09485	HP	2010.05.20	☐
17	Temperature & Humidity Chamber	EY-101	90E14260	TABAI ESPEC	2010.03.16	☐
18	EPM Series Power meter	E4418B	GB39512547	Agilent Technology	2010.05.20	☐
19	RF Power Sensor	ECP-E18A	US37181768	Agilent Technology	2010.05.20	☐
20	Microwave Frequency Counter	5352B	2908A00480	Agilent Technology	2010.05.20	☐
21	Band rejection filter	WRCG90/14SS	6	WAINWRIGHT	2009.07.30	☒
22	High pass Filter	WHKX1.0/15G=10SS	2	WAINWRIGHT	2009.07.30	☒
23	SLIDAC	None	0207-4	Myoung-Sung Electronic Co., Ltd.	2010.05.20	☐
24	DC Power supply	E3610A	KR24104505	Agilent Technology	2010.05.20	☒
25	T-Table Controller	1061-1.511	9101-1517	EMCO	N/A	☒
26	Antenna Master	1051-12	900081517	EMCO	N/A	☒
27	Turn Table Controller	1061-1.511	9101-1517	EMCO	N/A	☒

※ Above test equipments is contained the only RF spurious emission measurement

4. SUMMARY TEST RESULTS

Description of Test	FCCI Rules	Reference Clause	Compliance	Measurement Frequency
Radiated spurious emissions	FCC Part 22H	22.917	☒	Lowest Ch : 824.200 MHz Middle Ch : 836.600 MHz Highest Ch : 848.800 MHz
	FCC Part 24E	24.238	☒	Lowest Ch : 1 850.2 MHz Middle Ch : 1 887.400 MHz Highest Ch : 1 909.800 MHz
Compliance : The EUT complies with the essential requirements in the standard. Not Compliance : The EUT does not comply with the essential requirements in the standard. N/A : The test was not applicable in the standard.				

※ For EMI test measurement standard is described this clause 7. and 8.

5. Radiated Spurious Emissions (FCC PART 22)

5.1 Standard Applicable [FCC Part 22, Subpart H, Section 22.917]

The rules in this section govern the spectral characteristics of emissions in the Cellular Radiotelephone Service.

(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

■ Limit [FCC Part 22, Subpart H, Section 22.917(a)]

According to specification, the power of emissions shall be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log(P)$ dB, P in watts,

at P_o transmitting power, the specified minimum attenuation becomes $43 + 10 \log(P_o)$, and the level in dBm Relative P_o becomes ;

$$\therefore P_o \text{ (dBm)} = -43 + [10 \log(P_o)] - 30 = -13 \text{ dBm}_{\text{eirr}}$$

※ Note: P_o is referred to in this page (4 / 26)

In other words, Radiated spurious emissions level from EUT shall be less than $-13 \text{ dBm}_{\text{eirr}}$

5.2 Test Chamber Environment

■ Temperature : 23 °C, ■ Relative Humidity : (55 ~ 56) % R.H. ■ Pressure : 100.5 kPa

5.3 Measurement Procedure

The technique used to find the spurious emissions of the transmitter was the antenna substitution method. Substitution method was performed in accordance with the ANSI TIA/EIA 603.

The following test procedure as below;

- ① The EUT was powered ON and placed on a 1.0 meter high non-conductive table inside an full pyramidal chamber.
- ② The measuring antenna was placed at 3 meter distance and the EUT was controlled via the MT8815A (Radio Communication Analyzer) channel selecting maximum transmitting power
- ③ The receive antenna is used on horn antenna at above 1GHz (if used on Bi-Log Antenna at below 1 GHz) and then setting in both vertical and horizontal polarization
- ④ the transmitter was maximized on the test receiver display by Step ③ and then EUT is located Position X, Y, Z axis on rotating (360 degrees) the turntable.
- ⑤ The receiver was scanned from 30MHz to the 10th harmonic of the highest frequency generated within the equipment and then the maximum meter reading was recorded. The radiated emissions were measured with peak detector and 1 MHz bandwidth

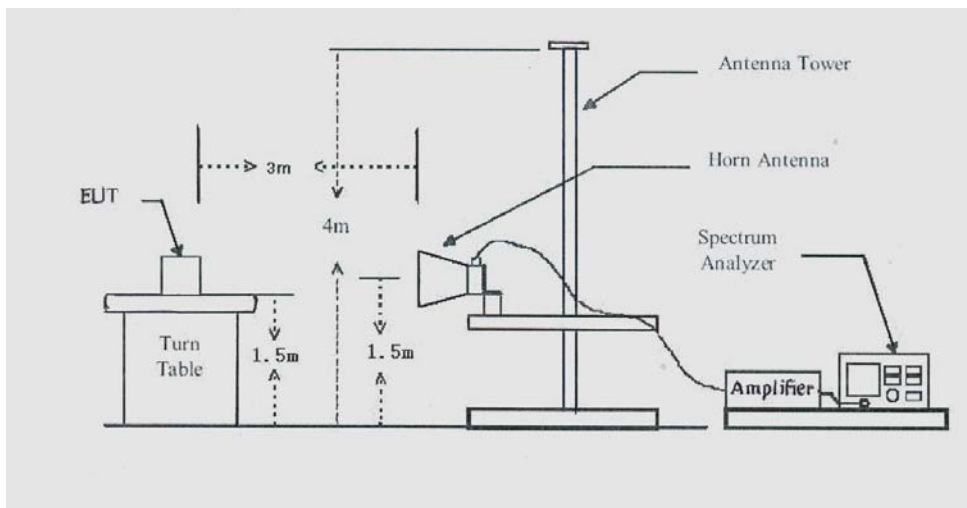
- ⑥ The transmitter was then removed and replaced with substitution antenna .The center of the antenna was approximately at the same location as the center of the transmitter.
- ⑦ Signal generator output port connected with substitution antenna input port. If necessary, may use shield cable between signal generator and substitution antenna
- ⑧ The signal generator was adjusted until and equal or a known related to that detected from the measured frequency and power level in Step.⑤ is obtained for this set of conditions.
- ⑨ The E.I.R.P is equal to the power supplied by signal generator level obtained Step⑧

If used cable between signal generator and the substitution antenna. it is correction to signal generator's offset value. In this case E.I.R.P shall calculated as follow as formula ;

- $E.I.R.P = \text{Signal generator level (dBm)} - \text{Cable loss(dB)} + \text{Substitution antenna gain(dBi)}$

※ if necessary, additionally receiver is adopted high-pass filter and preamp because lower spurious signal

5.4 Test Configuration



5.5 Measurement Result

⇒ frequency / Ch.: Lowest (824.200 MHz / 128 Ch), Mode: GMSK

Below 1 GHz

Freq.	Measure (Emission Level)	Signal Generator Level ①	Cable loss②	Antenna gain③	Result (EIRP)	Limit	Margin
(MHz)	(dBm / m)	(dBm)	(dB)	(dBi)	(dBi)	(dBm)	(dB)
Spurious signal is not detected							

above 1 GHz

Freq.	Measure (Emission Level)	Signal Generator Level ①	Cable loss②	Antenna gain③	Result (EIRP)	Limit	Margin
(MHz)	(dBm / m)	(dBm)	(dB)	(dBi)	(dBi)	(dBm)	(dB)
2 475.9	-73.21	-43.25	6.03	10.20	-39.08	-13.00	26.08
above 2 475.9	Nil emission						

※ Measure(Emission level): Maximum value radiated from EUT

※ Result(EIRP) = ①-②+③

⇒ frequency / Ch.: Middle (836.600 MHz / 190 Ch), Mode: GMSK

Below 1 GHz

Freq.	Measure (Emission Level)	Signal Generator Level ①	Cable loss②	Antenna gain③	Result (EIRP)	Limit	Margin
(MHz)	(dBm / m)	(dBm)	(dB)	(dBi)	(dBi)	(dBm)	(dB)
Spurious signal is not detected							

above 1 GHz

Freq.	Measure (Emission Level)	Signal Generator Level ①	Cable loss②	Antenna gain③	Result (EIRP)	Limit	Margin
(MHz)	(dBm / m)	(dBm)	(dB)	(dBi)	(dBi)	(dBm)	(dB)
2 511.3	-74.45	-45.58	6.30	10.45	-41.43	-13.00	28.43
above 2 511.3	Nil emission						

※ Measure(Emission level): Maximum value radiated from EUT

※ Result(EIRP) = ①-②+③

⇒ frequency / Ch.: Highest (848.800 MHz / 251 Ch), Mode: GMSK

Below 1 GHz

Freq.	Measure (Emission Level)	Signal Generator Level ①	Cable loss②	Antenna gain③	Result (EIRP)	Limit	Margin
(MHz)	(dBm / m)	(dBm)	(dB)	(dBi)	(dB)	(dBm)	(dB)
Spurious signal is not detected							

above 1 GHz

Freq.	Measure (Emission Level)	Signal Generator Level ①	Cable loss②	Antenna gain③	Result (EIRP)	Limit	Margin
(MHz)	(dBm / m)	(dBm)	(dB)	(dBi)	(dB)	(dBm)	(dB)
2 548.2	-70.16	-44.25	6.80	10.75	-40.30	-13.00	27.30
above 2 548.2	Nil emission						

※ Measure(Emission level): Maximum value radiated from EUT

※ Result(EIRP) = ①-②+③

6. Radiated Spurious Emissions (FCC PART 24)

6.1 Standard Applicable Applicable [FCC Part 24, Subpart E, Section 24.238]

The rules in this section govern the spectral characteristics of emissions in the Broadband Personal Communications Service.

(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

■ Limit [FCC Part 24, Subpart E, Section 24.238(a)]

According to specification, the power of emissions shall be attenuated below the transmitter power (P) by a Factor of at least $43 + 10 \log(P)$ dB, P in watts,

at P_o transmitting power, the specified minimum attenuation becomes $43 + 10 \log(P_o)$, and the level in dBm Relative P_o becomes ;

$$\therefore P_o \text{ (dBm)} = -43 + [10 \log(P_o) - 30] = -13 \text{ dBm}_{\text{eirp}}$$

※Note: P_o is refer to in this page(4 / 26)

In other word, Radiated spurious emissions level from EUT shall be less than $-13 \text{ dBm}_{\text{eirp}}$

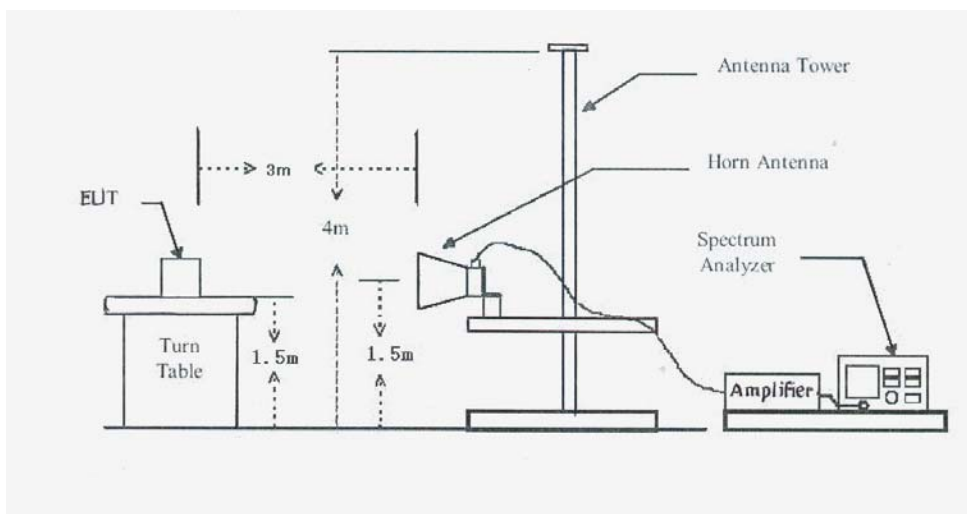
6.2 Test Chamber Environment

■ Ambient Temperature : 24°C , ■ Relative Humidity : (55 ~ 56) % R.H.

6.3 Measurement Procedures

The detailed procedure is described in this clause 5.3

6.4 Test Configuration



6.5 Measurement Result

⇒ frequency / Ch.: Lowest (1 850.200 MHz / 512 Ch), Mode: GMSK

Below 1 GHz

Freq.	Measure (Emission Level)	Signal Generator Level ①	Cable loss②	Antenna gain③	Result (EIRP)	Limit	Margin
(MHz)	(dBm / m)	(dBm)	(dB)	(dBi)	(dBi)	(dBm)	(dB)
Spurious signal is not detected							

above 1 GHz

Freq.	Measure (Emission Level)	Signal Generator Level ①	Cable loss②	Antenna gain③	Result (EIRP)	Limit	Margin
(MHz)	(dBm / m)	(dBm)	(dB)	(dBi)	(dBi)	(dBm)	(dB)
3 697.5	-76.97	-44.69	8.10	12.41	-40.38	-13.00	27.38
7 421.7	-79.56	-43.87	11.55	11.50	-43.92	-13.00	30.92
above 7 421.7	Nil emission						

※ Measure(Emission level): Maximum value radiated from EUT

※ Result(EIRP) = ①-②+③

⇒ frequency / Ch.: Middle (1 887.400 MHz / 662 Ch), Mode: GMSK

Below 1 GHz

Freq.	Measure (Emission Level)	Signal Generator Level ①	Cable loss②	Antenna gain③	Result (EIRP)	Limit	Margin
(MHz)	(dBm / m)	(dBm)	(dB)	(dBi)	(dBi)	(dBm)	(dB)
Spurious signal is not detected							

above 1 GHz

Freq.	Measure (Emission Level)	Signal Generator Level ①	Cable loss②	Antenna gain③	Result (EIRP)	Limit	Margin
(MHz)	(dBm / m)	(dBm)	(dB)	(dBi)	(dBi)	(dBm)	(dB)
3 755.0	-75.68	-43.25	8.23	12.52	-38.96	-13.00	25.96
7 520.5	-80.01	-42.25	11.70	11.58	-42.37	-13.00	29.37
above 7 520.5	Nil emission						

※ Measure(Emission level): Maximum value radiated from EUT

※ Result(EIRP) = ①-②+③

⇒ frequency / Ch.: Highest (1 909.800 MHz / 810 Ch), Mode: GMSK

Below 1 GHz

Freq.	Measure (Emission Level)	Signal Generator Level ①	Cable loss②	Antenna gain③	Result (EIRP)	Limit	Margin
(MHz)	(dBm / m)	(dBm)	(dB)	(dBi)	(dBi)	(dBm)	(dB)
Spurious signal is not detected							

above 1 GHz

Freq.	Measure (Emission Level)	Signal Generator Level ①	Cable loss②	Antenna gain③	Result (EIRP)	Limit	Margin
(MHz)	(dBm / m)	(dBm)	(dB)	(dBi)	(dBi)	(dBm)	(dB)
3 902.4	-77.05	-41.24	8.75	12.60	-37.39	-13.00	24.37
7 650.2	-81.25	-43.25	11.85	11.65	-43.45	-13.00	30.45
above 7 650.2	Nil emission						

※ Measure(Emission level): Maximum value radiated from EUT

※ Result(EIRP) = ①-②+③

7. Power Conducted emissions

7.1 Standard Applicable [FCC §15.107(b)]

150kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50uH/50 ohms line Impedance Stabilization Network (LISN). Compliance with the provisions of this paragraph shall be based on The measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

§15.207 limits for power line conducted emissions;

Frequency of Emission(MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	79	66
0.5 ~30	73	60

7.2 EUT used cable

Cable Type	Shield	Length (m)	Connector	Connection (Point 1)	Connection (Point 2)
SD Card Slot	-	-	SD Card Slot Type	E.U.T	SD Card
DC IN (Power 1)	No	0.5	Din	E.U.T.	Cigar jack
A/V	No	0.5	RCA	E.U.T	TV
ANT.	Yes	1.0	Din	E.U.T	Radio Communication Analyzer
Jack	No	1.5	LINE	DC POWER	Cigar jack

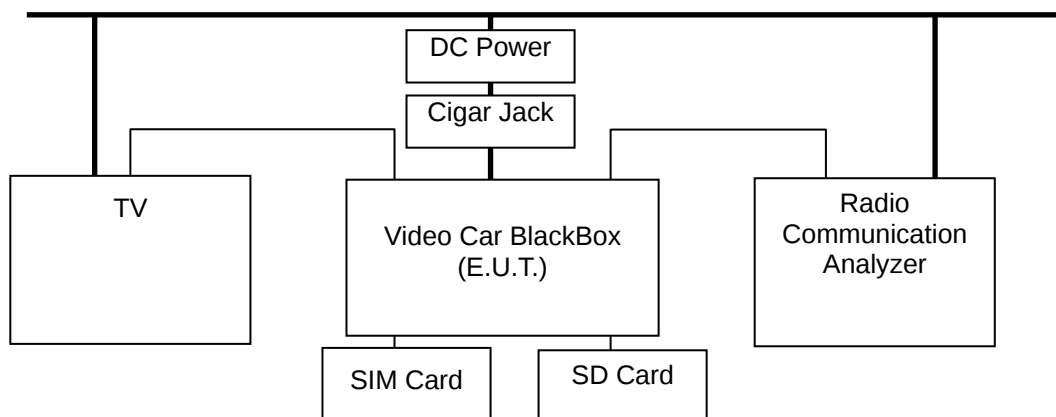
7.3 Operating conditions

For intentional radiator that is designed to be connected to the Cigar jack supplied by DC power supply on any frequencies band(850 MHz and 1900 MHz) IDLE(Stand by) and TCH(Traffic channel) mode within the band

7.4 Used Peripherals

Description	Manufacturer	Model / Part No	Serial Number
Cigar jack	Perfect power Co., Ltd.	PC-120250D	None
SD Card	SAN DISK	None	BE0902111880G
TV	Changjin Information Co., Ltd.	FM15KO	AA9D35ZY202254T
DC Power	UNICORN Co., Ltd.	UP-3005T	000112
Radio Communication Analyzer	ANRITSU CORP.	MT8815A	6200429622
SIM Card	SME CO.	None	None

7.5 E.U.T Test Configuration



7.6 Measurement Procedure

The measurements were performed in a shielded room. The E.U.T. was placed 0.4 m from vertical metal reference of plane at the least 2 m by 2 m, was kept at least 0.8 m from any other metal surface. E.U.T. was placed on a non-metallic table 0.8 m above horizontal metal reference plane. And E.U.T. was placed 0.4 m from vertical ground plane. They were folded back and forth forming a bundle 30 cm to 40 cm long and were hanged at a 40 cm height to the ground plane.

Each EUT power lead, except ground (safety) lead, was individually connected through a LISN to input power source. Both lines of power cord, hot and neutral, were measured.

7.7 Test Environment

■ Ambient Temperature : 24 °C, ■ Relative Humidity : (55 ~ 56) % R.H. ■ Pressure : 101.2 kPa

7.8 Test Result

Frequency band	Descriptions	Result	Test mode
850 MHz	Interface voltage on Neutral and Phase wire	Pass	IDLE Mode
	Interface voltage on Neutral and Phase wire	Pass	TCH Mode*
1 900 MHz	Interface voltage on Neutral and Phase wire	Pass	IDLE Mode
	Interface voltage on Neutral and Phase wire	Pass	TCH Mode*

*. TCH is mean normal operation condition as Traffic channel

Note: Measurement uncertainty ; ± 2.4 dB ($K=2$)

7.9 Test Data

⇒ 850 MHz band(IDLE mode)

FREQ. (MHz)	LEVEL(dB μ V)		LINE Pol	Loss (dB)	LIMIT(dB μ V)		MARGIN(dB)	
	QP	AV			QP	AV	QP	AV
0.206	39.95	25.14	L	0.29	79.00	66.00	39.05	40.86
0.218	46.54	38.21	L	0.29	79.00	66.00	32.46	27.79
0.298	36.65	27.44	L	0.29	79.00	66.00	42.35	38.56
0.542	27.45	17.52	L	0.90	73.00	60.00	45.55	42.48
0.758	51.84	51.65	L	0.43	73.00	60.00	21.16	8.35
1.506	28.92	26.80	N	0.44	73.00	60.00	44.08	33.20
27.502	27.22	26.62	L	2.29	73.00	60.00	45.78	33.38

⇒ 850 MHz band (TCH mode)

FREQ. (MHz)	LEVEL(dB μ V)		LINE Pol	Loss (dB)	LIMIT(dB μ V)		MARGIN(dB)	
	QP	AV			QP	AV	QP	AV
0.154	41.99	40.81	L	0.08	79.00	66.00	37.01	25.19
0.206	46.58	38.01	N	0.29	79.00	66.00	32.42	27.99
0.218	47.88	25.66	N	0.29	79.00	66.00	31.12	40.34
0.758	57.44	57.42	N	0.43	73.00	60.00	15.56	2.58
1.518	37.13	36.20	N	0.44	73.00	60.00	35.87	23.80
2.278	36.36	30.92	N	0.57	73.00	60.00	36.64	29.08
2.798	34.16	19.13	N	0.57	73.00	60.00	38.84	40.87

⇒ 1 900 MHz band (IDLE mode)

FREQ. (MHz)	LEVEL(dB μ V)		LINE Pol	Loss (dB)	LIMIT(dB μ V)		MARGIN(dB)	
	QP	AV			QP	AV	QP	AV
0.150	27.88	21.69	L	0.08	79.00	66.00	51.12	44.31
0.194	28.17	23.76	N	0.08	79.00	66.00	50.83	42.24
0.222	24.87	19.97	L	0.29	79.00	66.00	54.13	46.03
0.746	50.31	50.29	L	0.43	73.00	60.00	22.69	9.71
1.498	28.37	25.85	N	0.44	73.00	60.00	44.63	34.15
2.246	28.52	27.50	N	0.57	73.00	60.00	44.48	32.50
27.502	27.17	26.45	L	2.29	73.00	60.00	45.83	33.55

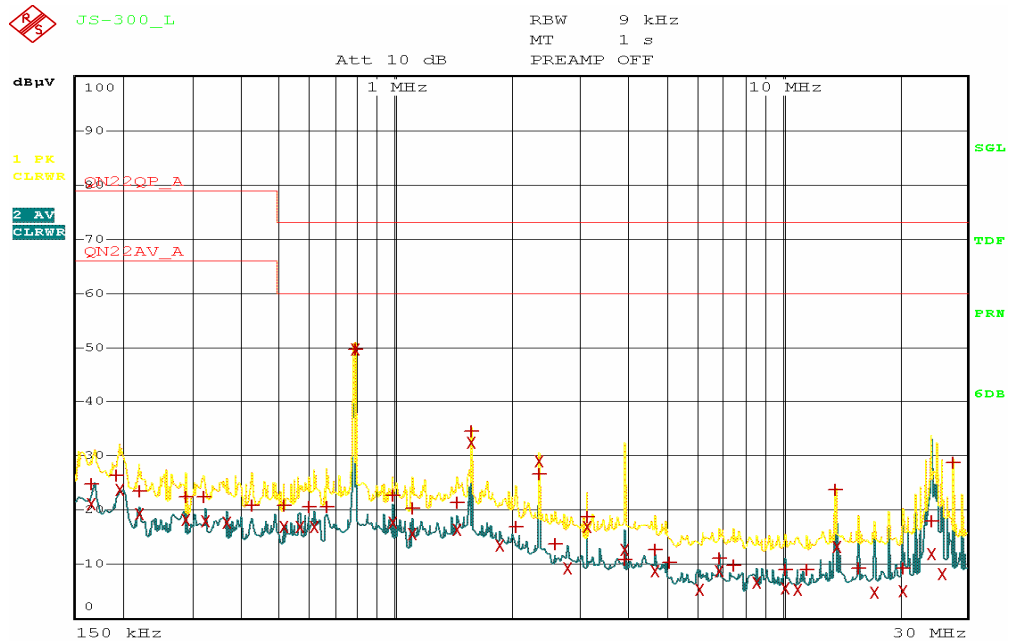
⇒ 1 900 MHz band (TCH mode)

FREQ. (MHz)	LEVEL(dB μ W)		LINE Pol	Loss (dB)	LIMIT(dB μ W)		MARGIN(dB)	
	QP	AV			QP	AV	QP	AV
0.174	57.80	57.47	N	0.08	79.00	66.00	21.20	8.53
0.190	57.27	56.78	N	0.08	79.00	66.00	21.73	9.22
0.282	50.56	49.81	N	0.29	79.00	66.00	28.44	16.19
0.550	45.34	43.87	L	0.90	73.00	60.00	27.66	16.13
0.726	41.75	39.52	L	0.43	73.00	60.00	31.25	20.48
0.766	56.24	54.91	L	0.43	73.00	60.00	16.76	5.09
1.598	40.68	25.36	N	0.44	73.00	60.00	32.32	34.64

■ Conducted Emission test graph

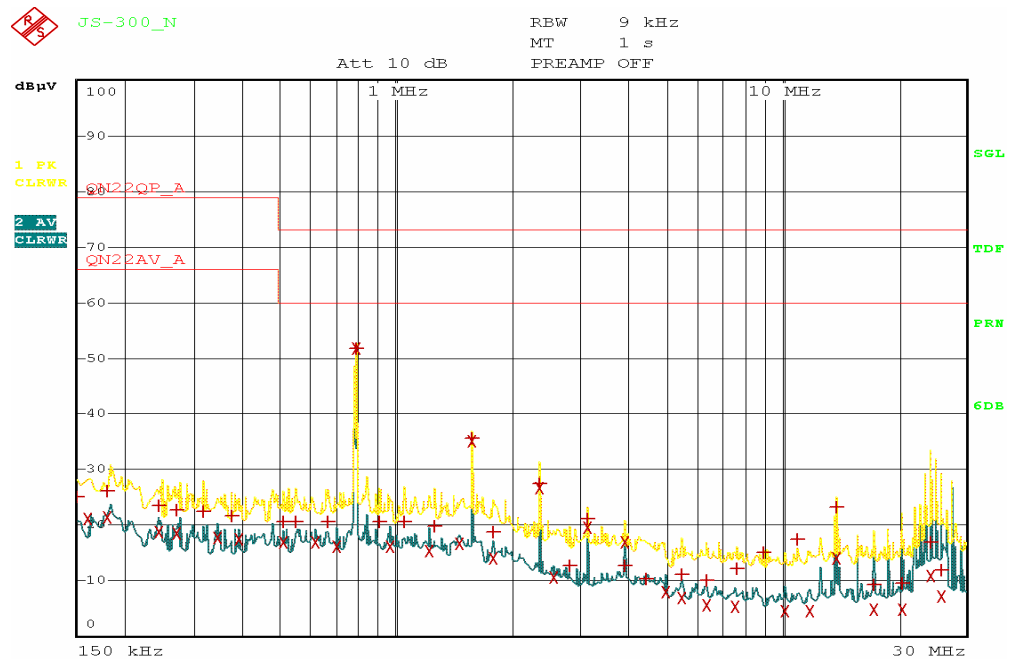
⇒ 850 MHz band (IDLE mode)

Line. Live



Date: 24.JUN.2009 13:48:14

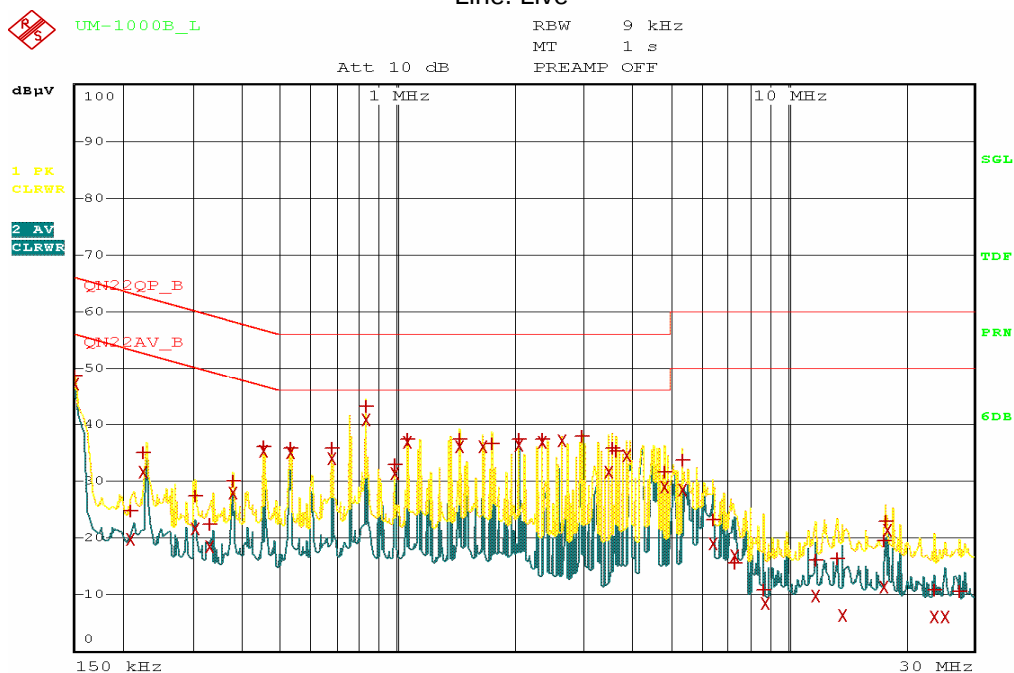
Line. Neutral



Date: 24.JUN.2009 13:45:42

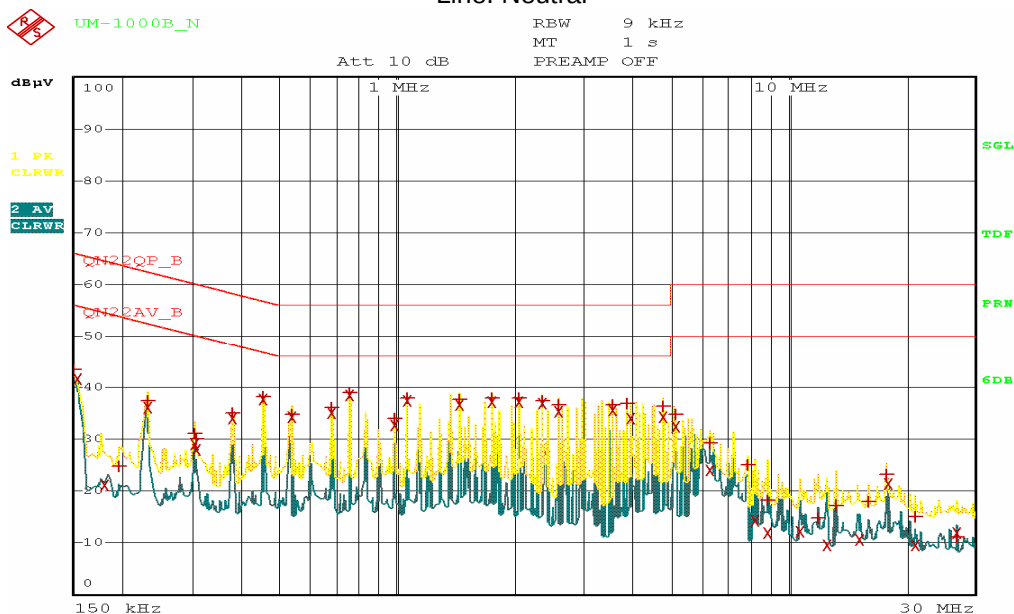
⇒ 850 MHz band (TCH mode)

Line. Live



Date: 1.SEP.2008 10:41:19

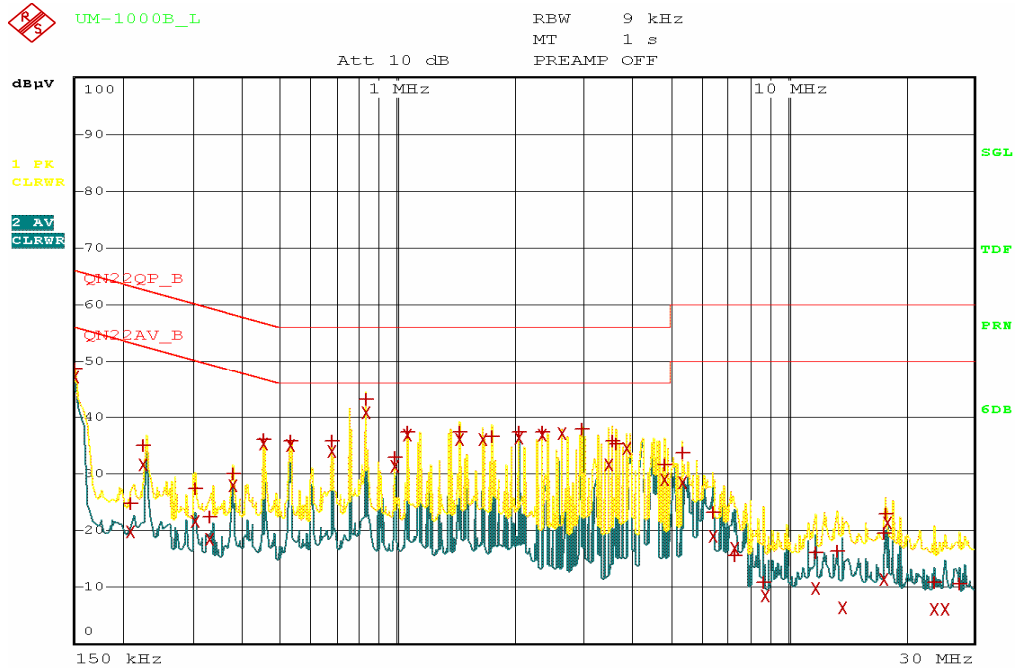
Line. Neutral



Date: 1.SEP.2008 10:46:28

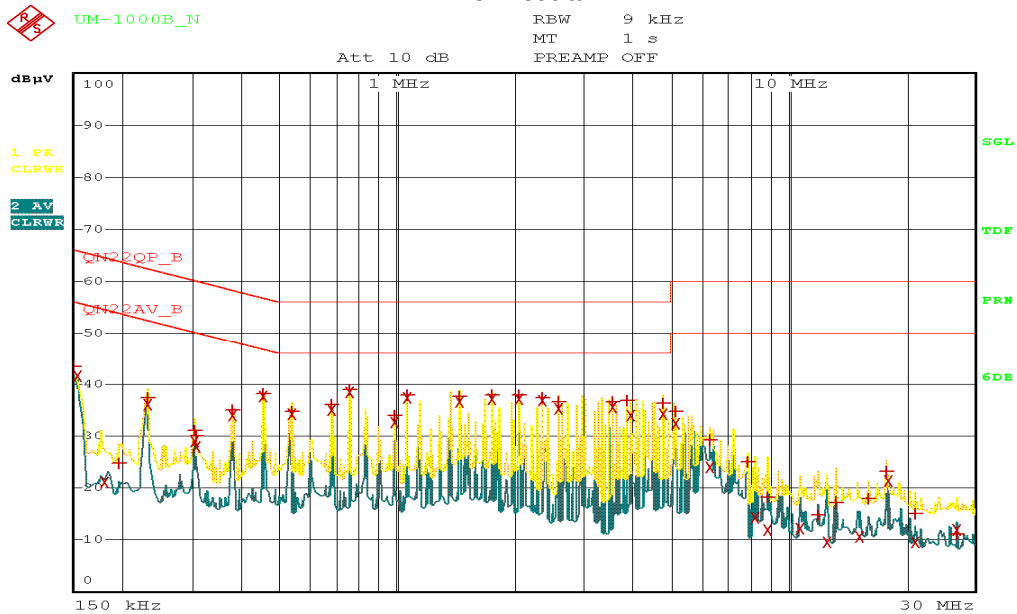
⇒ 1 900 MHz band (IDLE mode)

Line. Live



Date: 1.SEP.2008 10:41:19

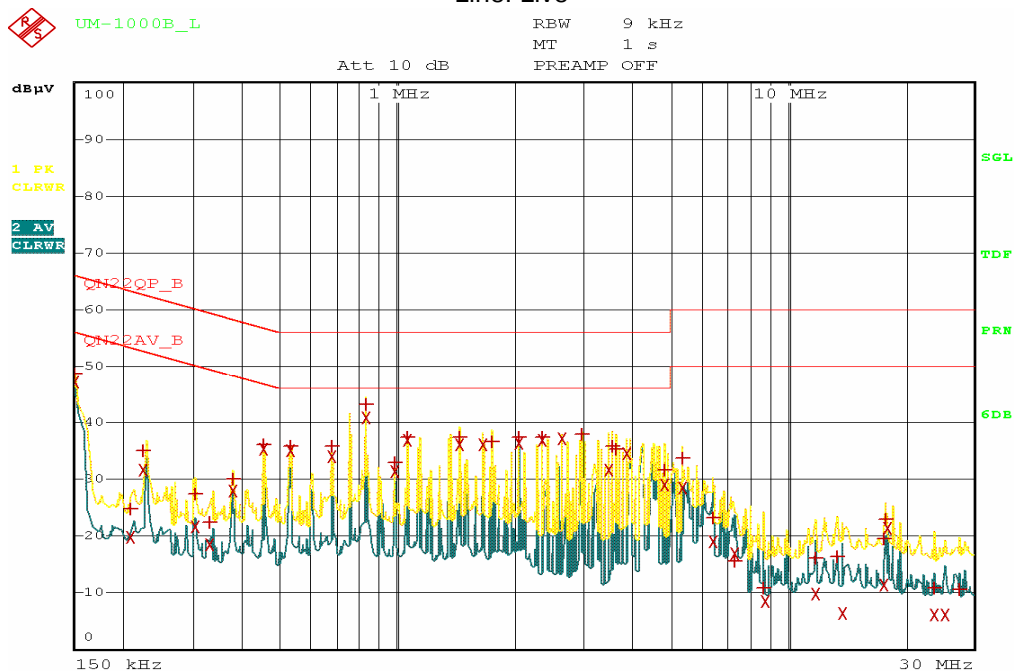
Line. Neutral



Date: 1.SEP.2008 10:46:28

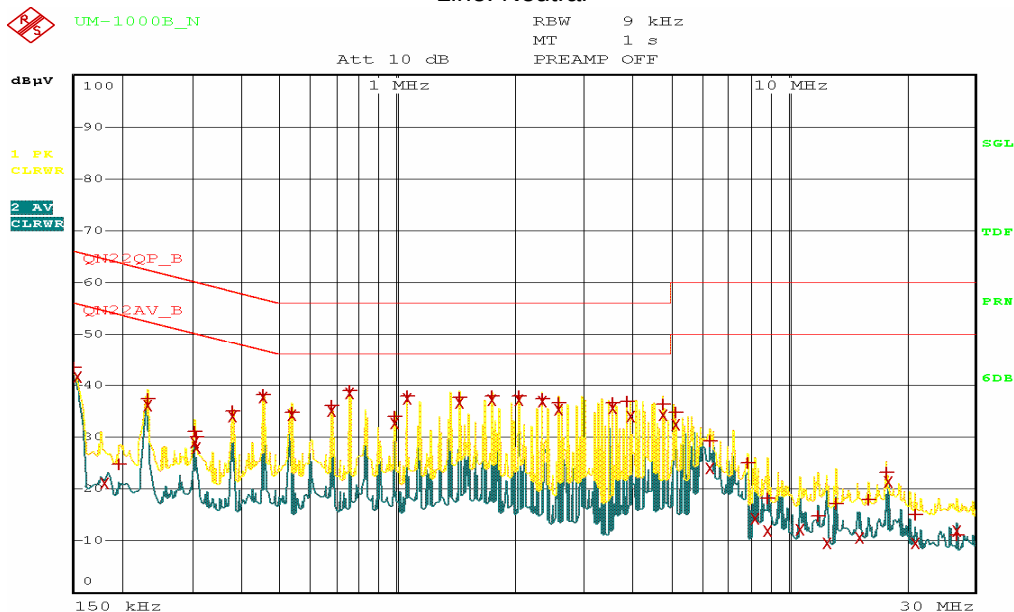
⇒ 1 900 MHz band (TCH mode)

Line. Live



Date: 1.SEP.2008 10:41:19

Line. Neutral



Date: 1.SEP.2008 10:46:28