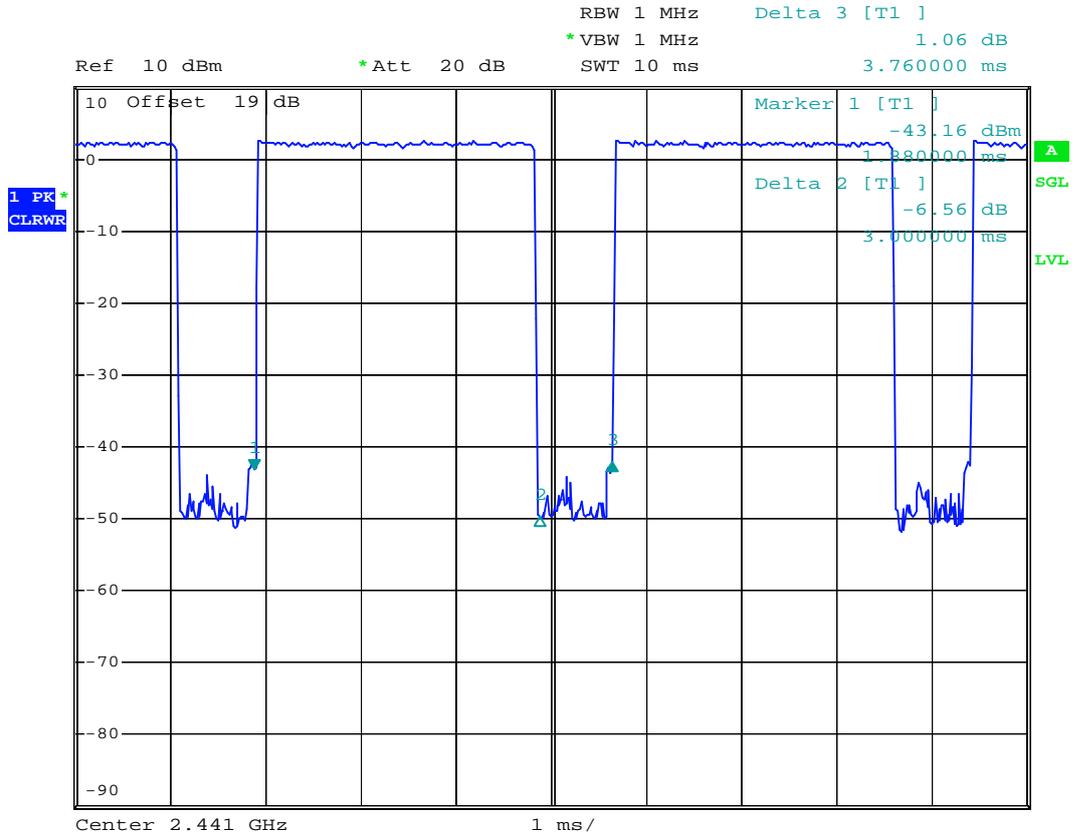
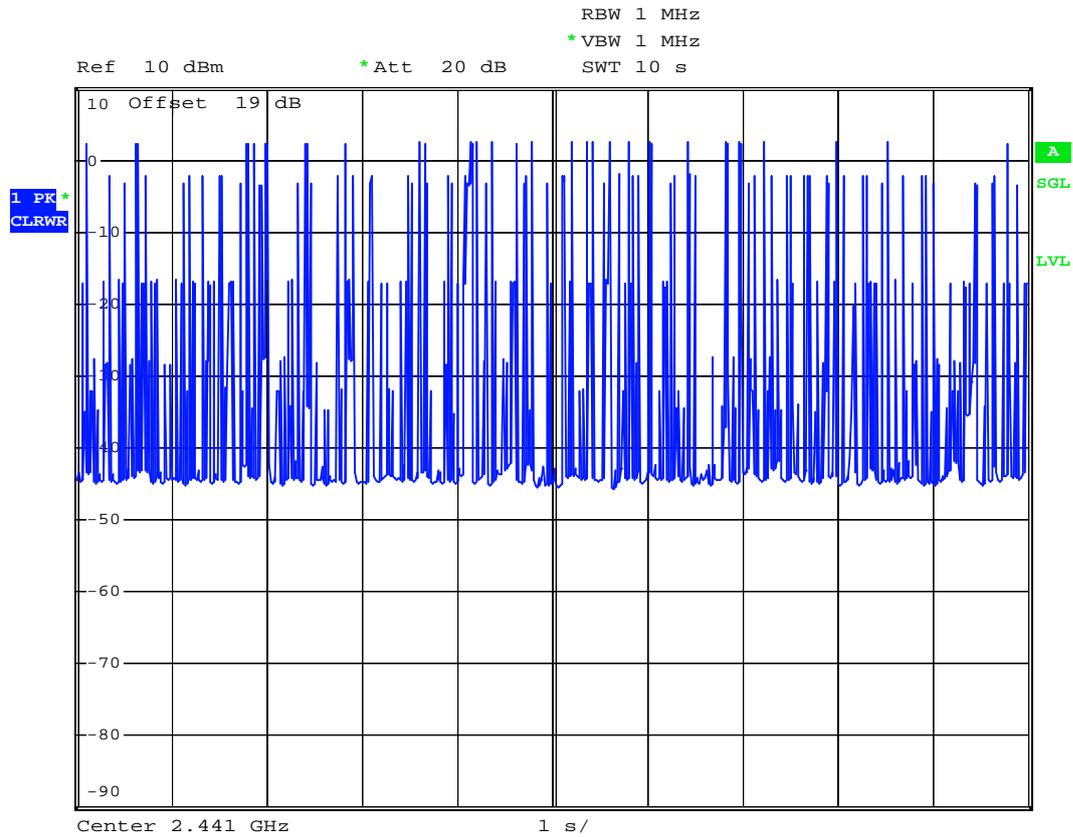




BT-EDR(2Mbps)_DH5 (CH39)



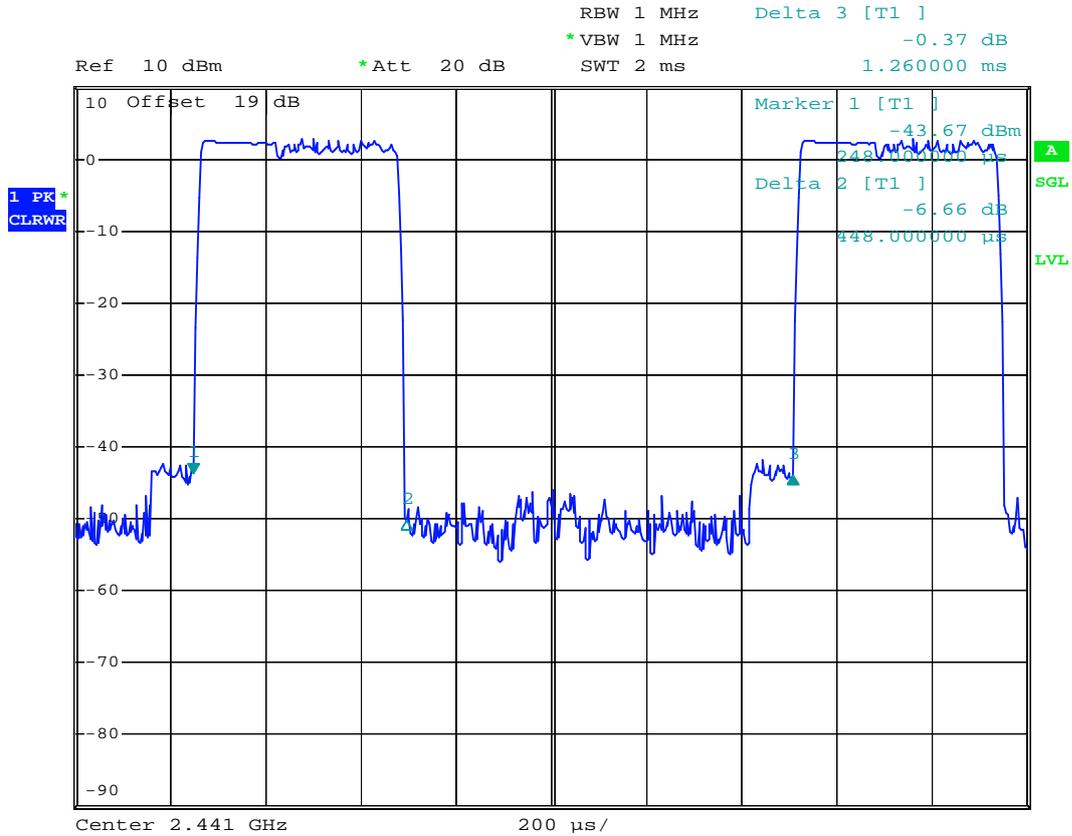
Date: 3.SEP.2007 00:56:16



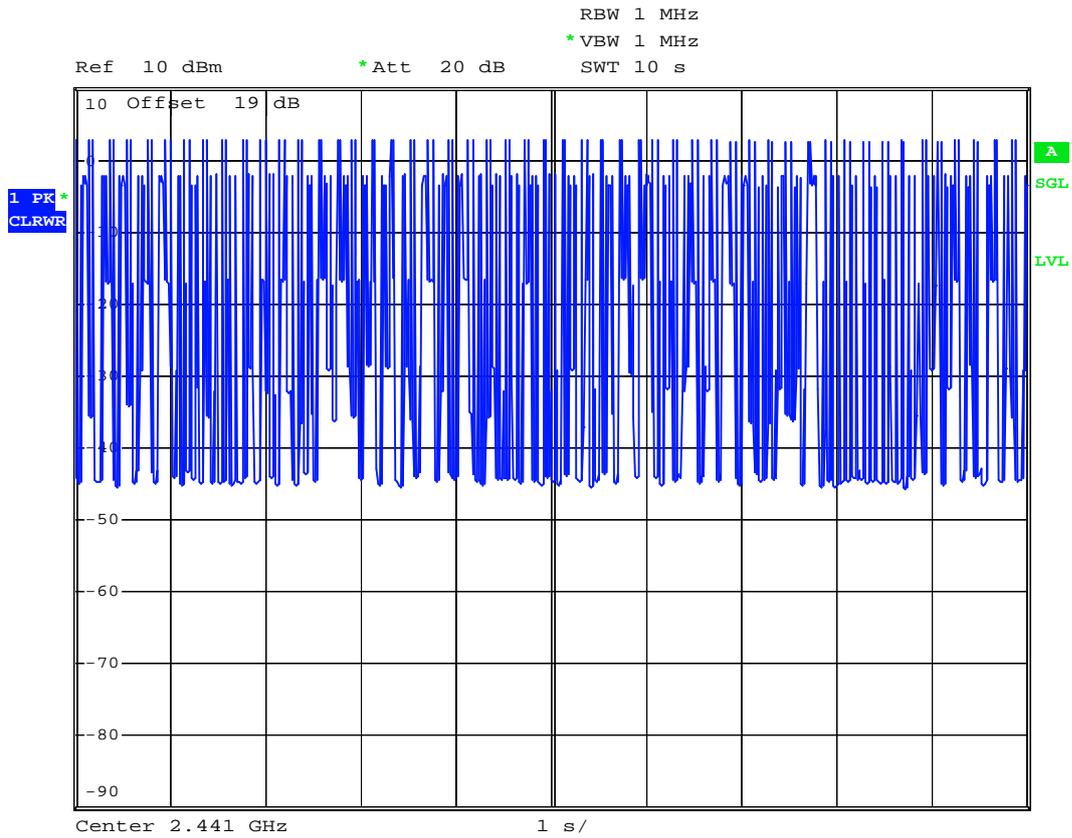
Date: 3.SEP.2007 01:09:20



BT-EDR(3Mbps)_DH1 (CH39)



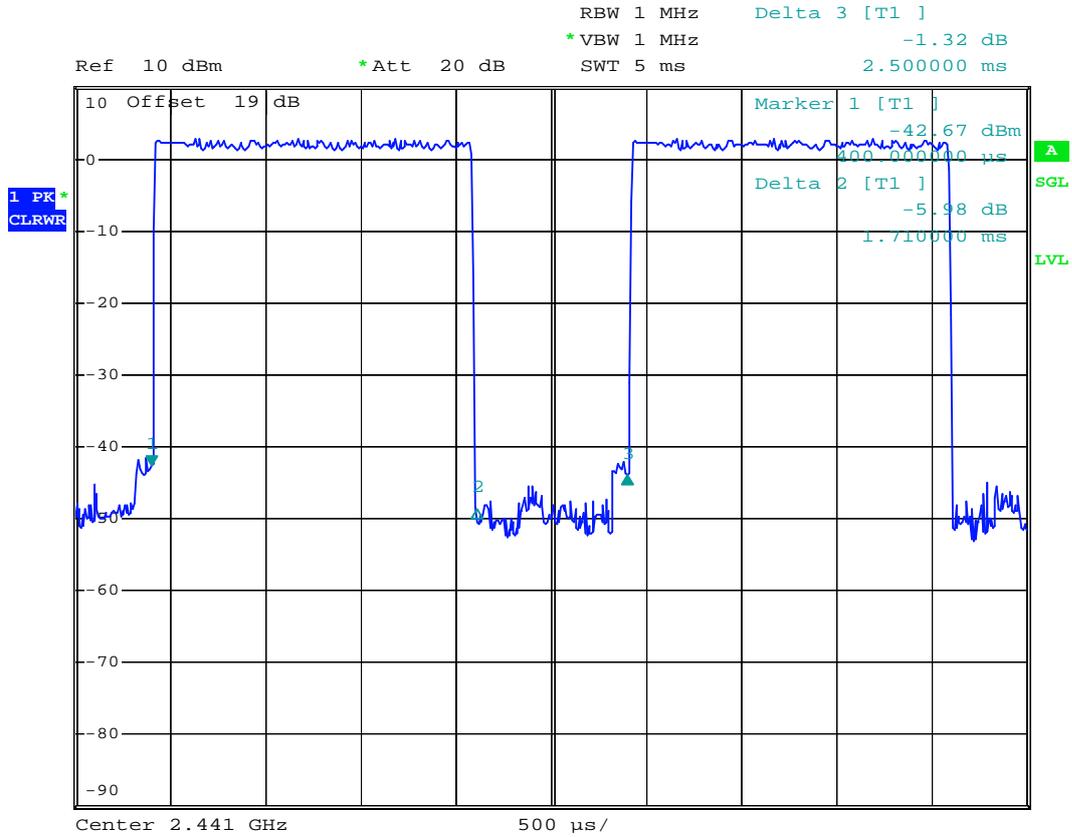
Date: 3.SEP.2007 01:01:41



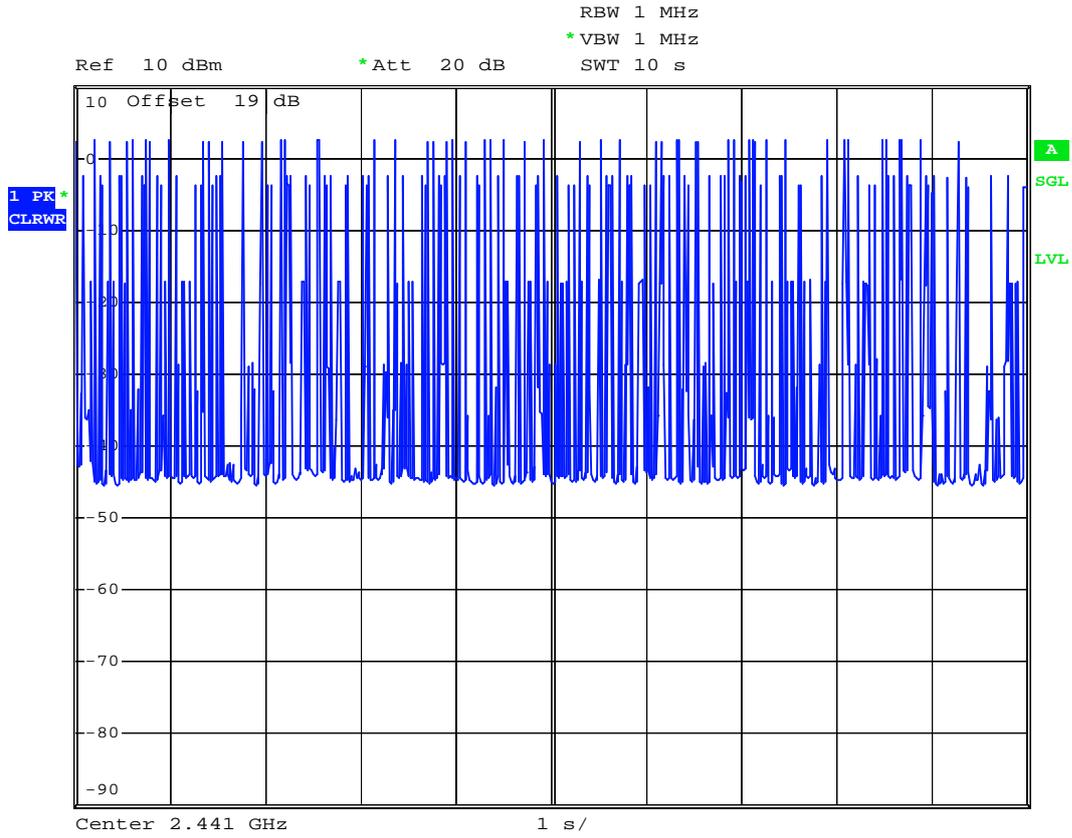
Date: 3.SEP.2007 01:02:54



BT-EDR(3Mbps)_DH3 (CH39)



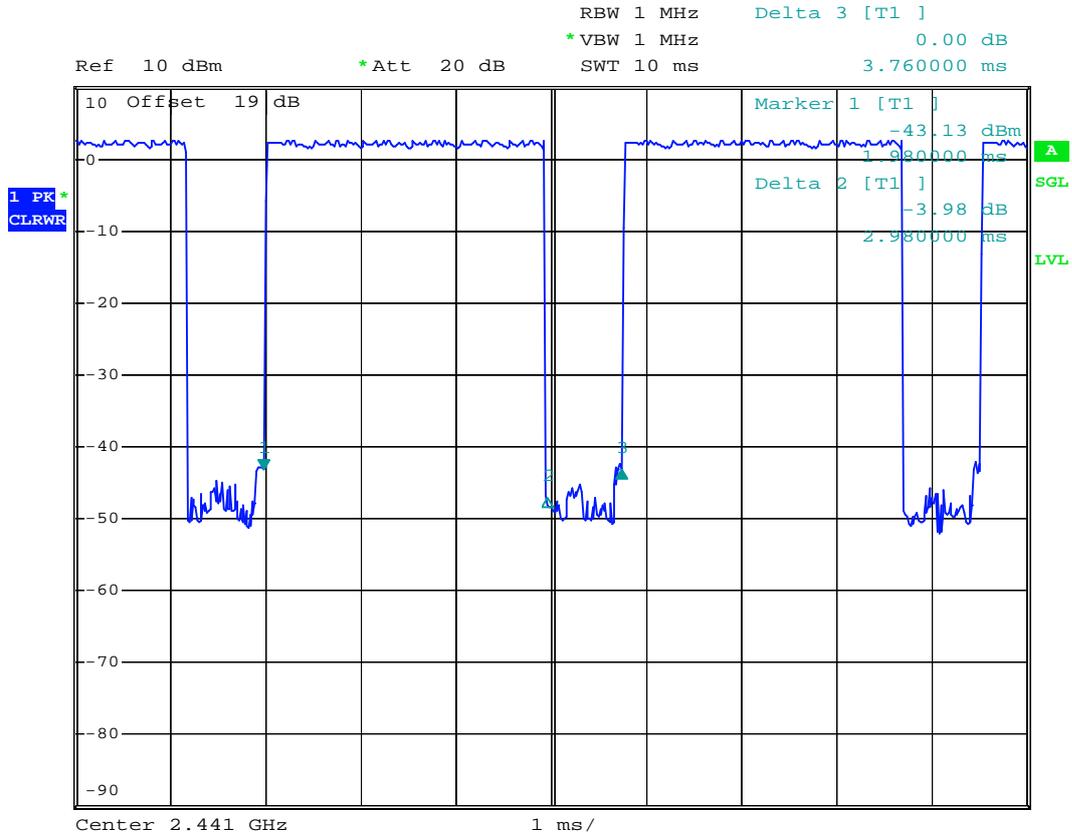
Date: 3.SEP.2007 00:58:34



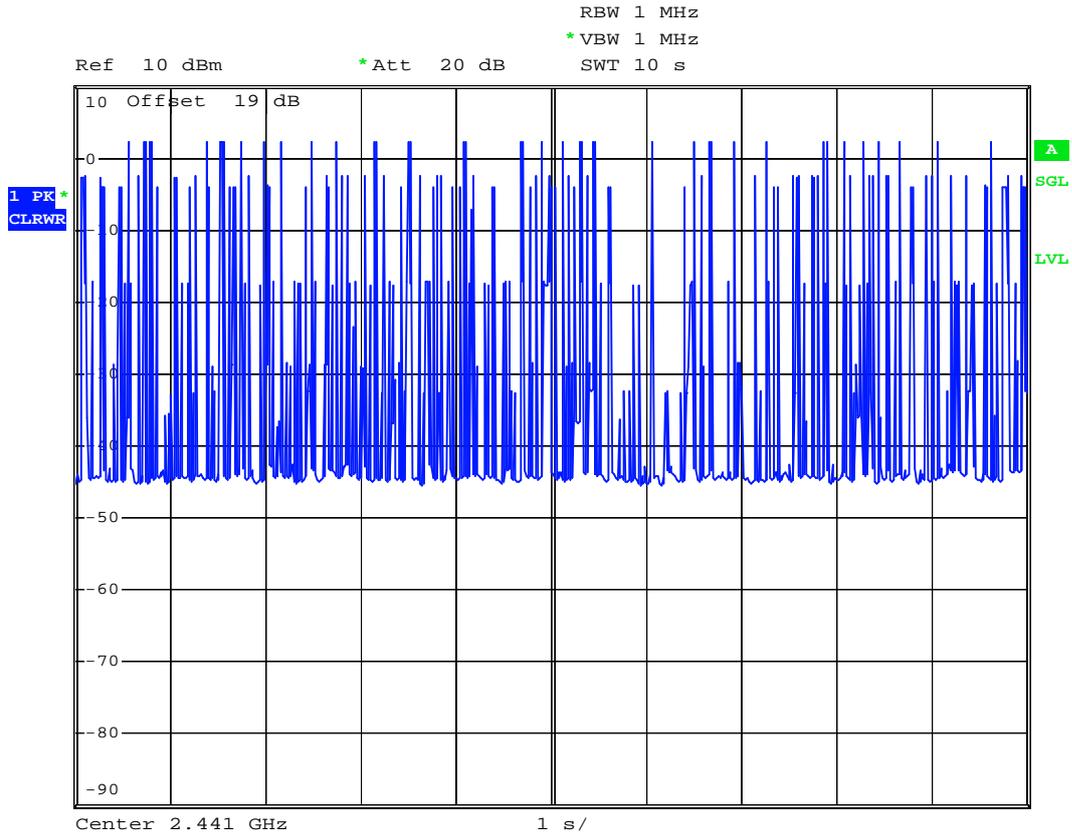
Date: 3.SEP.2007 01:04:00



BT-EDR(3Mbps)_DH5 (CH39)



Date: 3.SEP.2007 00:57:13



Date: 3.SEP.2007 01:04:54

5.9 Peak Output Power Measurement

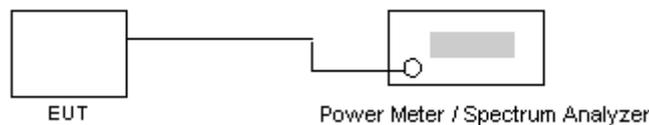
5.9.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.9.2 Test Procedure :

1. The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter for WLAN measurement. The power is equal to the reading level on power meter plus cable loss at the EUT antenna terminal.
2. The antenna port(RF output) of the EUT was connected to the input (RF input) of a spectrum analyzer for BT measurement. The cable loss has been offset before testing.

5.9.3 Test Setup Layout :



5.9.4 Test Result :

- Application Type : WLAN 802.11b/g and BT
- Temperature : 27~28°C
- Relative Humidity : 51~53%
- Test Enginner : Sun

WLAN 802.11b

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
01	2412	17.51	1W/30 dBm
06	2437	15.87	1W/30 dBm
11	2462	16.61	1W/30 dBm

WLAN 802.11g

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
01	2412	15.45	1W/30 dBm
06	2437	15.96	1W/30 dBm
11	2462	15.38	1W/30 dBm

**BT(1Mbps)**

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
00	2402	2.17	1W/30 dBm
39	2441	2.79	1W/30 dBm
78	2480	1.49	1W/30 dBm

BT-EDR(2Mbps)

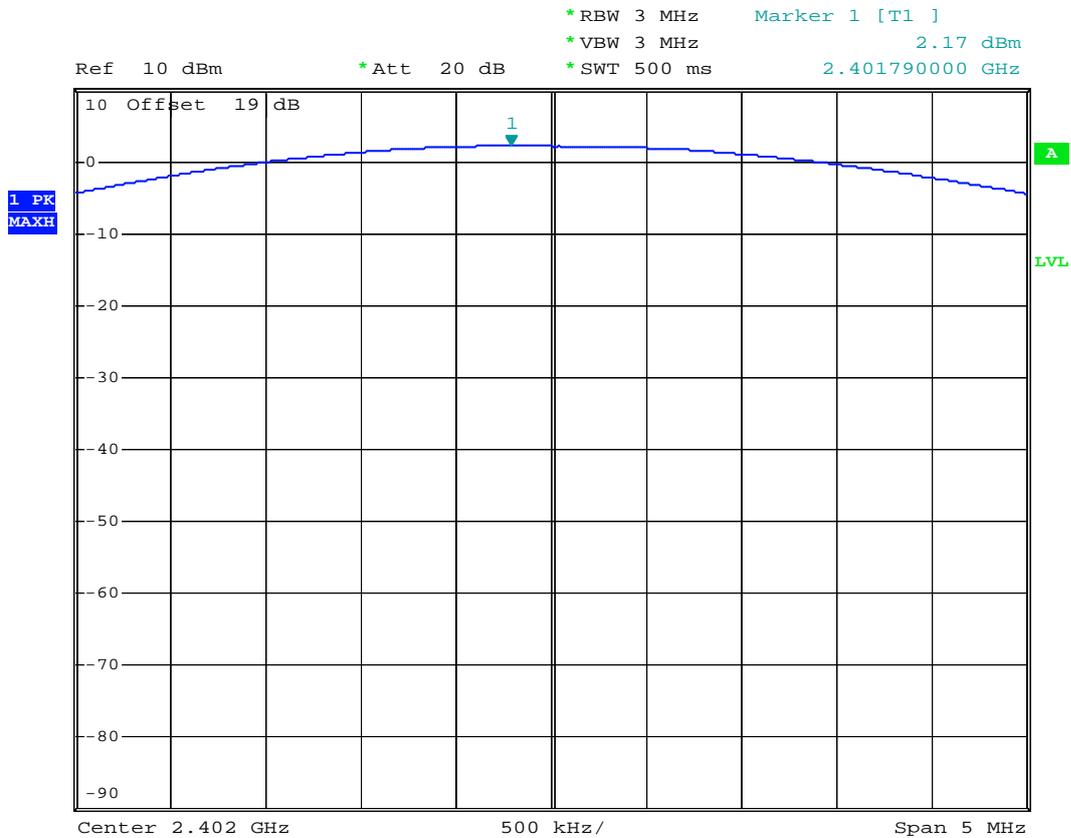
Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
00	2402	2.63	1W/30 dBm
39	2441	3.22	1W/30 dBm
78	2480	2.05	1W/30 dBm

BT-EDR(3Mbps)

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
00	2402	2.67	1W/30 dBm
39	2441	3.11	1W/30 dBm
78	2480	2.18	1W/30 dBm



5.9.5 Output Power
BT(1Mbps)
Mode : CH00 (2402MHz)

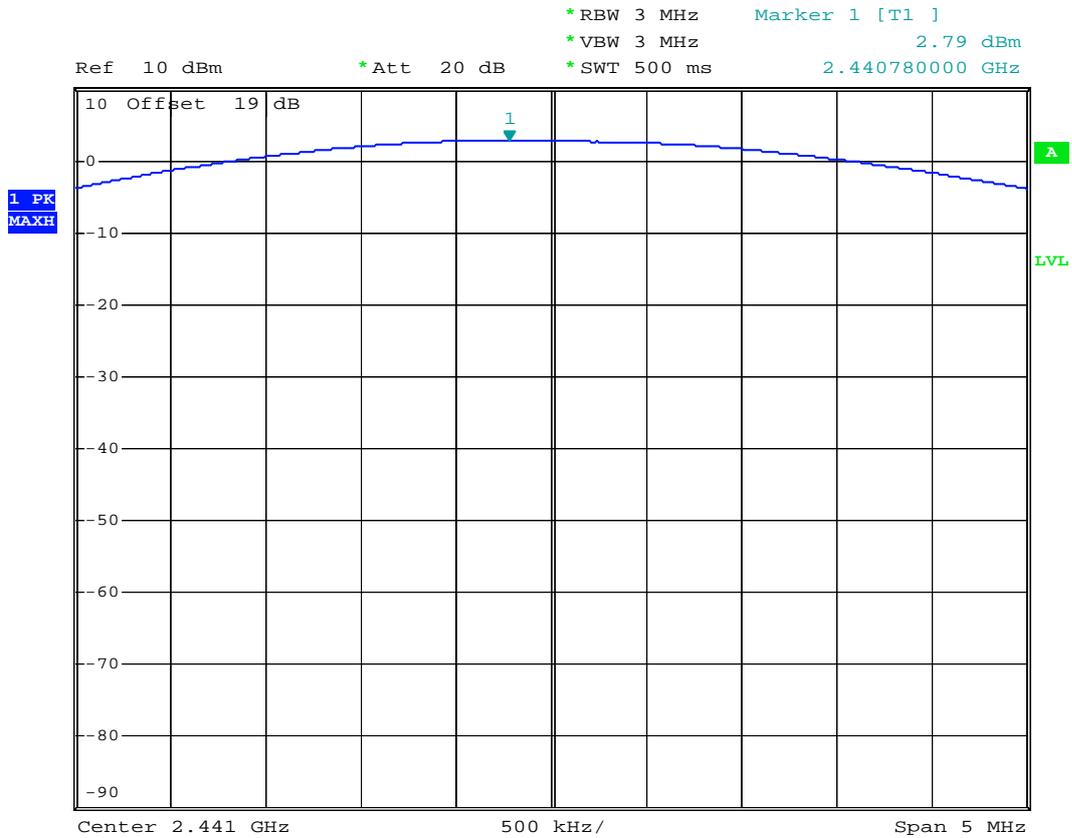


Date: 3.SEP.2007 01:21:23



BT(1Mbps)

Mode : CH39 (2441MHz)

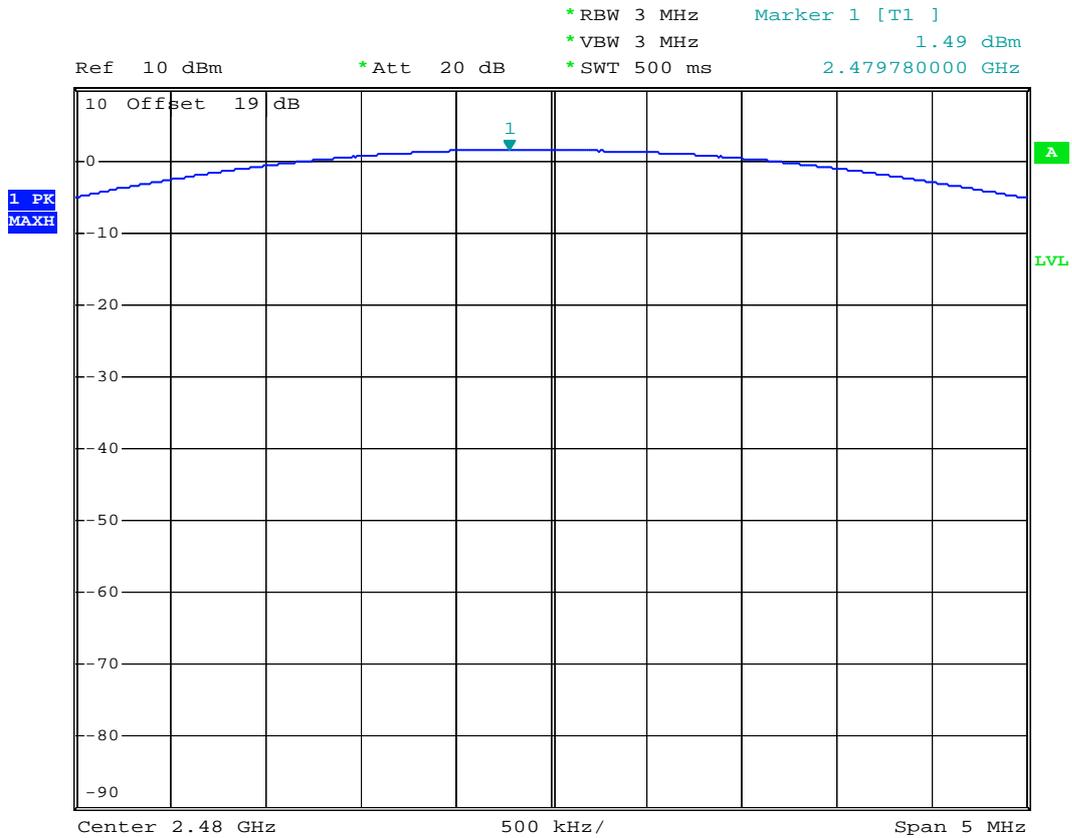


Date: 3.SEP.2007 01:22:17



BT(1Mbps)

Mode : CH78 (2480MHz)

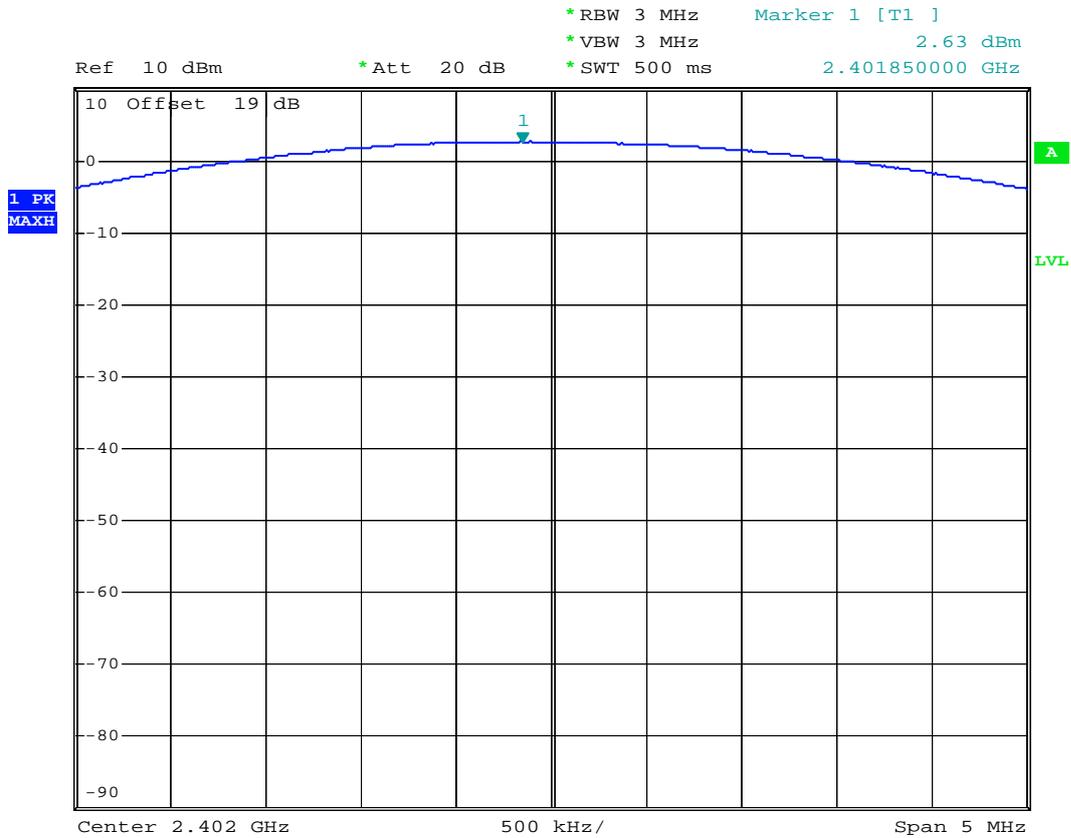


Date: 3.SEP.2007 01:23:03



BT-EDR(2Mbps)

Mode : CH00 (2402MHz)

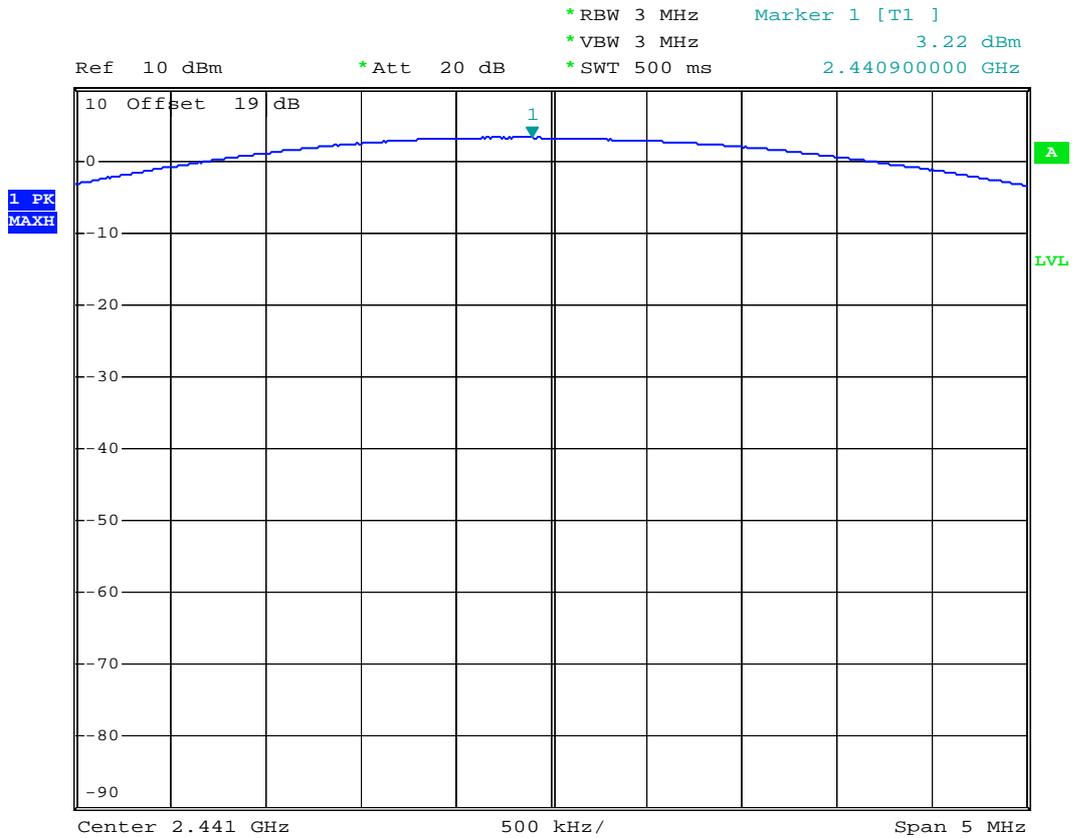


Date: 2.SEP.2007 23:16:50



BT-EDR(2Mbps)

Mode : CH39 (2441MHz)

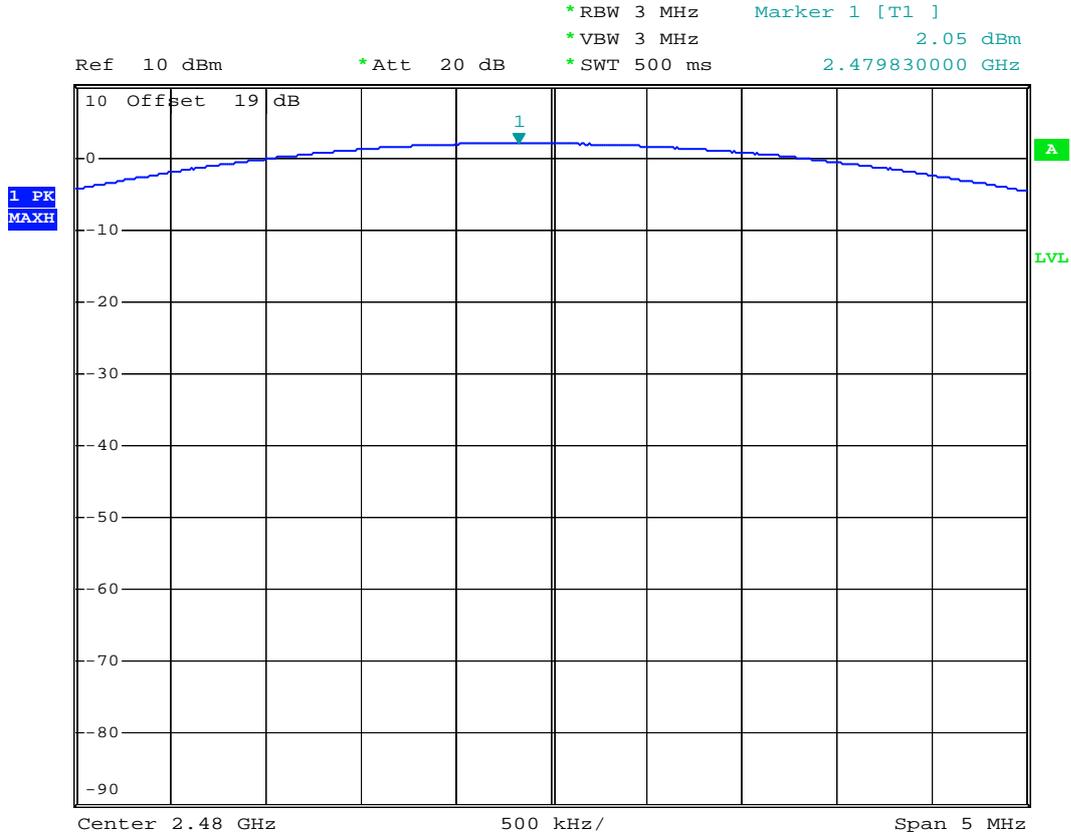


Date: 2.SEP.2007 23:15:17



BT-EDR(2Mbps)

Mode : CH78 (2480MHz)

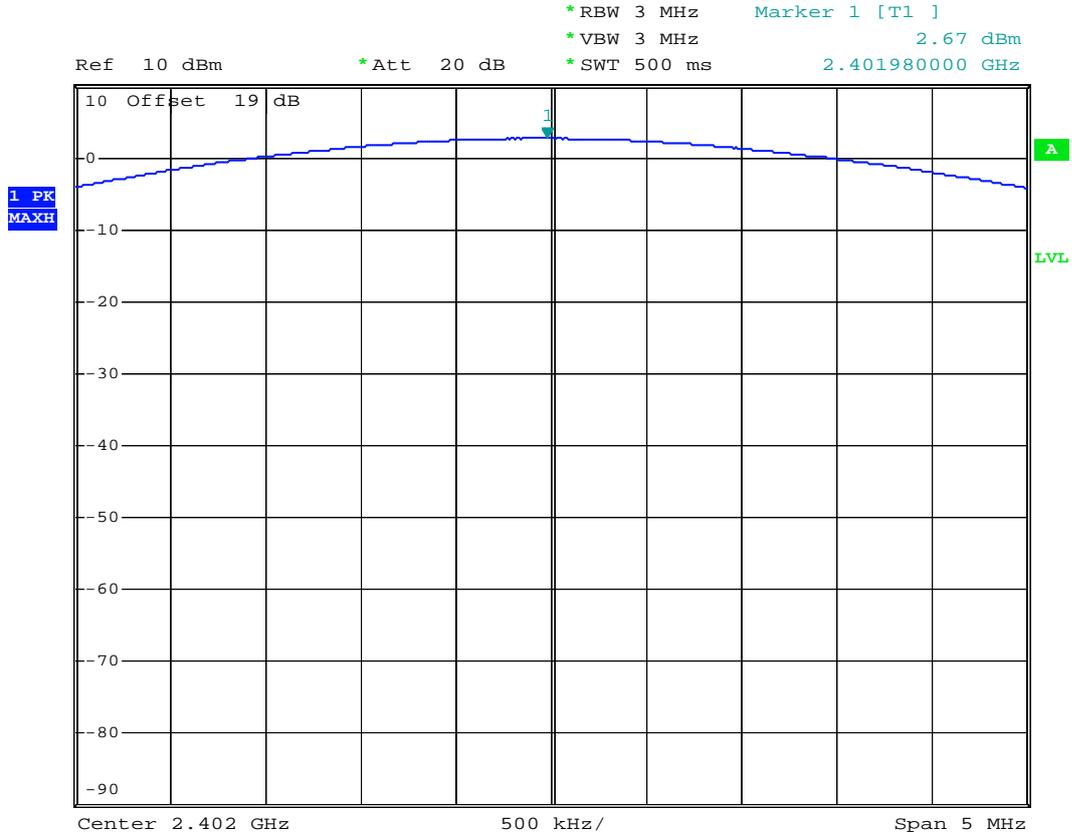


Date: 2.SEP.2007 23:17:23



BT-EDR(3Mbps)

Mode : CH00 (2402MHz)

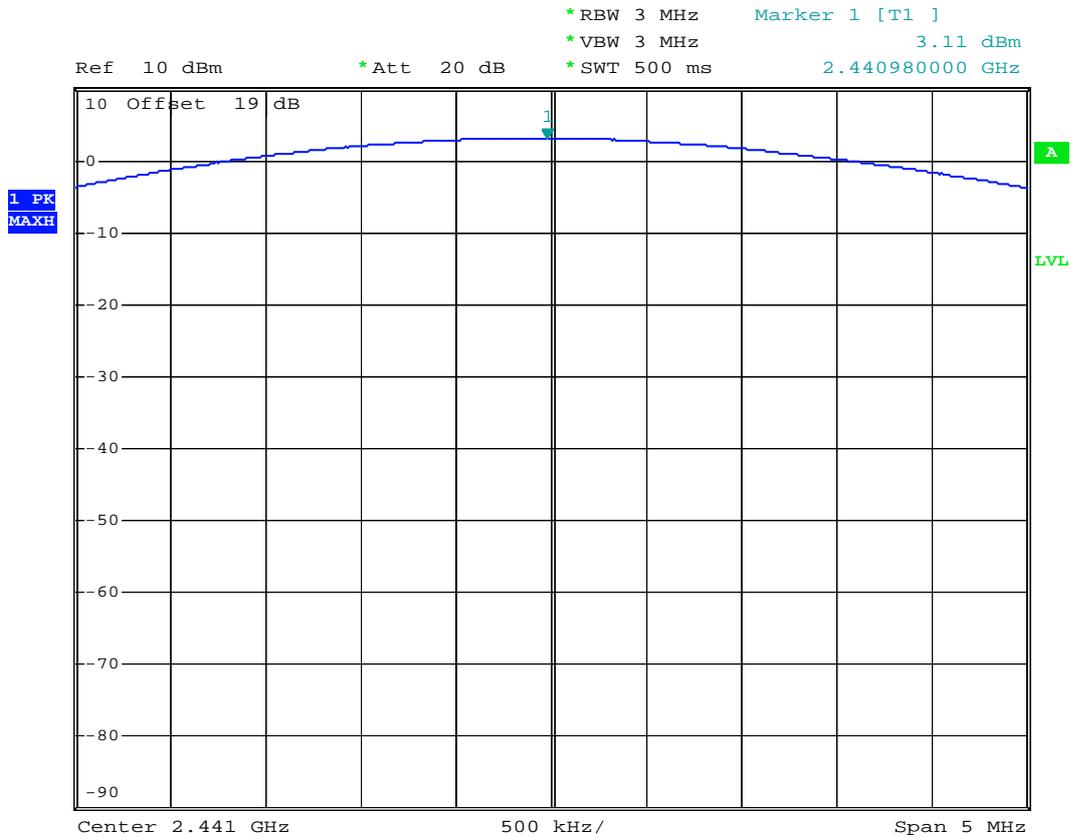


Date: 2.SEP.2007 23:16:21



BT-EDR(3Mbps)

Mode : CH39 (2441MHz)

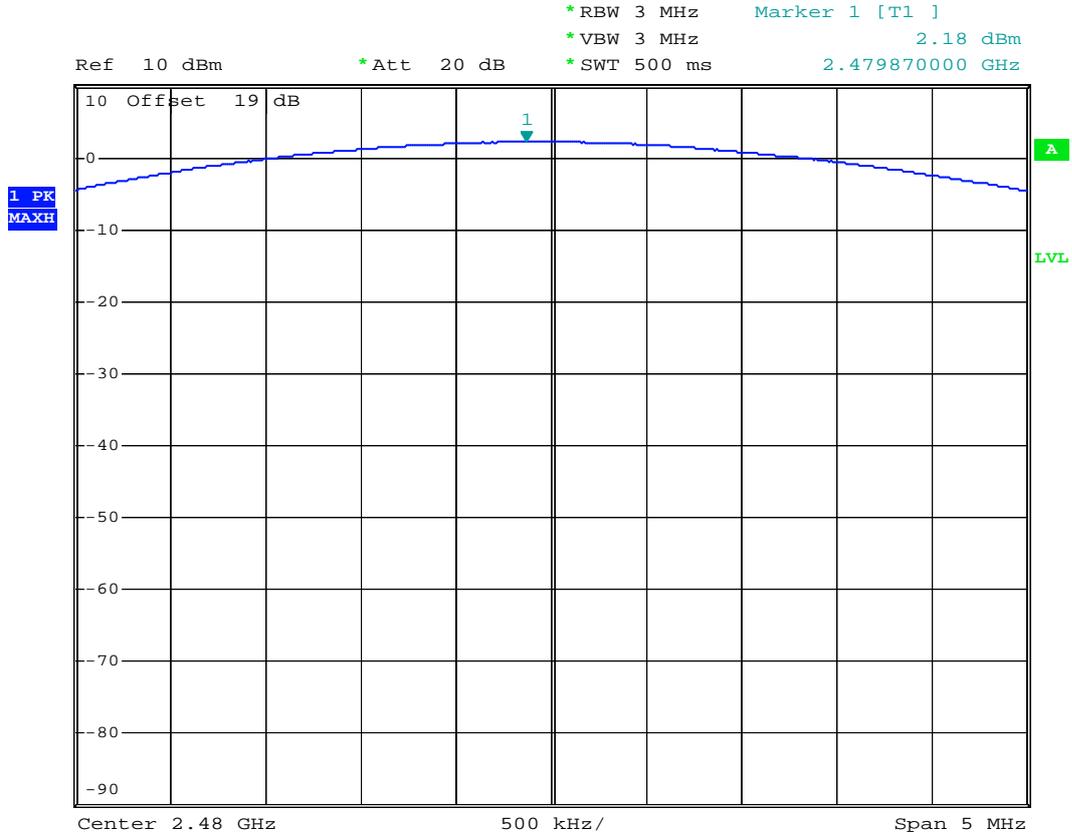


Date: 2.SEP.2007 23:15:55



BT-EDR(3Mbps)

Mode : CH78 (2480MHz)



Date: 2.SEP.2007 23:18:06



5.10 Conducted Emission

5.10.1 Measuring Instruments

As described in chapter 6 of this test Report.

The receiver setting :

150 KHz ~ 30 MHz	Detector : Quasi – Peak and Average Bandwidth : 9 KHz
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5.10.2 Test Procedures :

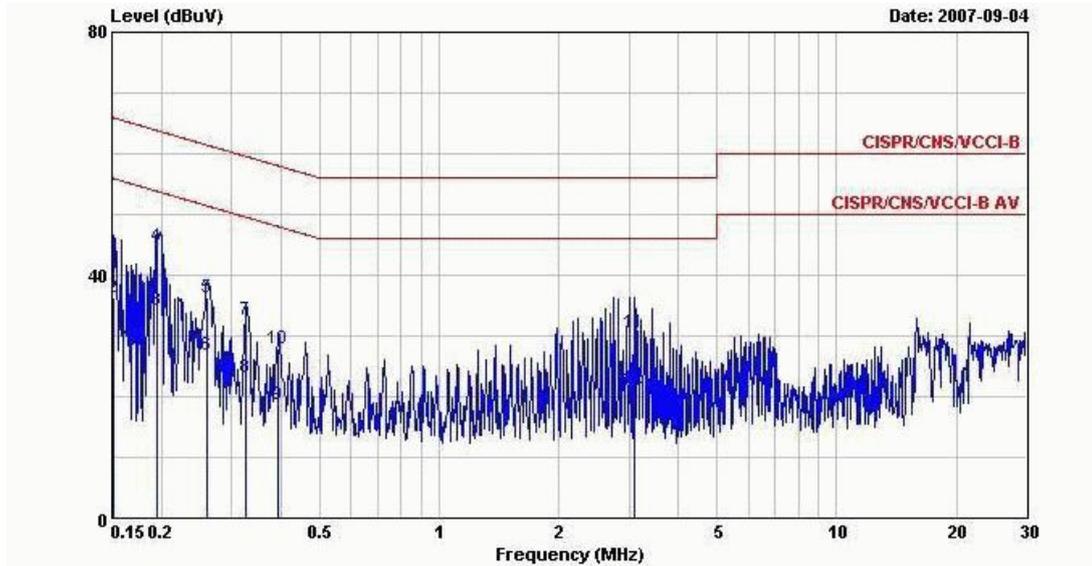
- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power port of a line impedance stabilization network (LISN).
- c. All the support units are connected to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.



5.10.3 Test Data

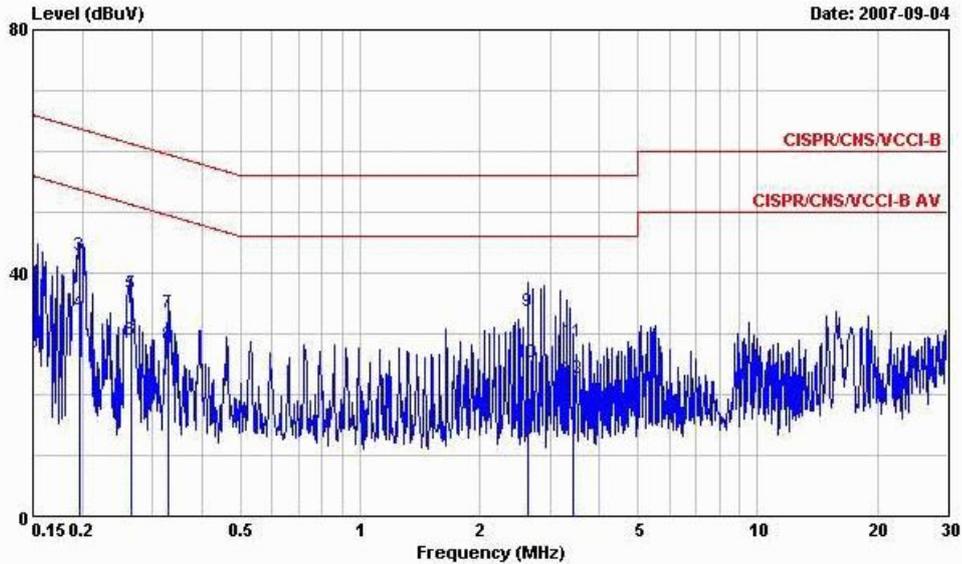
- Temperature : 27~28°C
- Relative Humidity : 51~53%
- Test Engineer : Sun
- Test Mode : Mode 1

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 LINE
 EUT : UMP C(GSM/GPRS/EDGE
 : (900MHz/1800MHz),UMTS/HSDPA)
 POWER: 120Vac/60Hz
 Model : FR 780709-01
 Memo : GSM850 Idle+BT Link+WLAN Link+Earphone
 : +Camera+MPEG4+GPS Rx+TC+Battery1
 Sample : A

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1515980	26.65	-29.26	55.91	26.41	0.10	0.14	Average
2	0.1515980	36.20	-29.71	65.91	35.96	0.10	0.14	QP
3	@0.1954980	34.24	-19.56	53.80	34.00	0.10	0.14	Average
4	@0.1954980	44.79	-19.01	63.80	44.55	0.10	0.14	QP
5	0.2602550	36.31	-25.11	61.42	35.84	0.10	0.37	QP
6	0.2602550	26.78	-24.64	51.42	26.31	0.10	0.37	Average
7	0.3268460	32.65	-26.88	59.53	31.99	0.10	0.56	QP
8	0.3268460	23.10	-26.43	49.53	22.44	0.10	0.56	Average
9	0.3934400	18.62	-29.37	47.99	17.80	0.10	0.72	Average
10	0.3934400	27.90	-30.09	57.99	27.08	0.10	0.72	QP
11	3.090	30.61	-25.39	56.00	30.15	0.10	0.36	QP
12	3.090	21.20	-24.80	46.00	20.74	0.10	0.36	Average



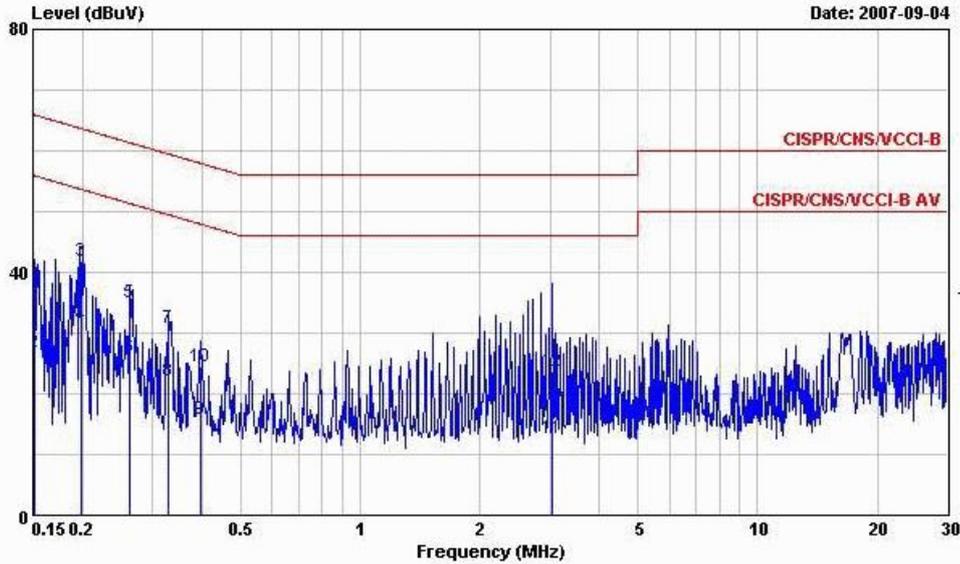
Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 NEUTRAL
 EUT : UMPC(GSM/GPRS/EDGE
 : (900MHz/1800MHz),UMTS/HSDPA)
 POWER: 120Vac/60Hz
 Model : FR 780709-01
 Memo : GSM850 Idle+BT Link+WLAN Link+Earphone
 : +Camera+MPEG4+GPS Rx+TC+Battery1
 Sample : A

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1500000	36.40	-29.60	66.00	36.16	0.10	0.14	QP
2	0.1500000	26.76	-29.24	56.00	26.52	0.10	0.14	Average
3	@0.1965370	43.00	-20.76	63.76	42.76	0.10	0.14	QP
4	@0.1965370	33.54	-20.22	53.76	33.30	0.10	0.14	Average
5	0.2644240	36.47	-24.82	61.29	35.99	0.10	0.38	QP
6	@0.2644240	28.93	-22.36	51.29	28.45	0.10	0.38	Average
7	0.3303280	33.34	-26.10	59.44	32.67	0.10	0.57	QP
8	@0.3303280	28.11	-21.33	49.44	27.44	0.10	0.57	Average
9	@ 2.640	33.79	-22.21	56.00	33.26	0.14	0.39	QP
10	@ 2.640	25.34	-20.66	46.00	24.81	0.14	0.39	Average
11	3.440	28.68	-27.32	56.00	28.16	0.18	0.34	QP
12	3.440	22.52	-23.48	46.00	22.00	0.18	0.34	Average



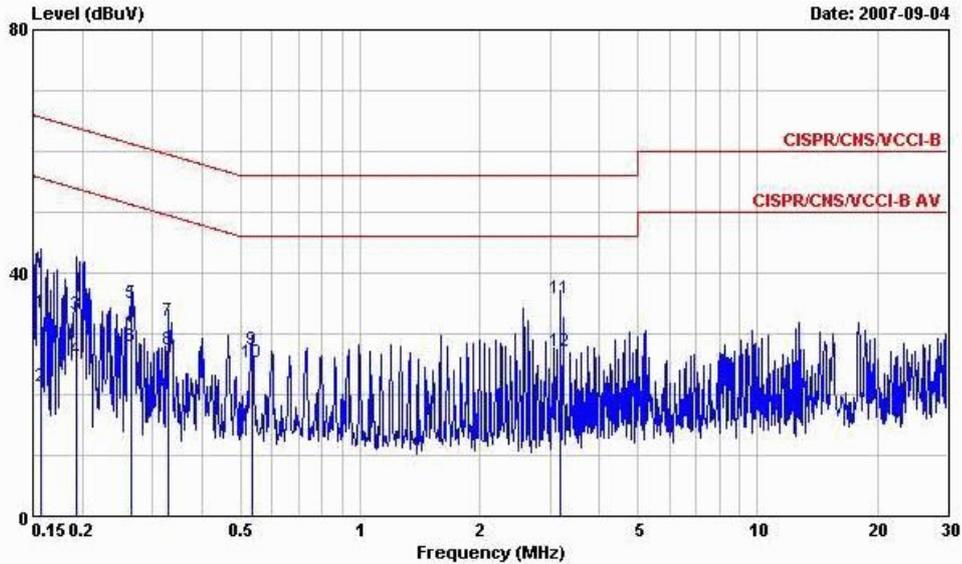
- Temperature : 27~28°C
- Relative Humidity : 51~53%
- Test Enginner : Sun
- Test Mode : Mode 2

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 LINE
 EUT : UMP C(GSM/GPRS/EDGE
 : (900MHz/1800MHz),UMTS/HSDPA)
 POWER: 120Vac/60Hz
 Model : FR 780709-01
 Memo : EDGE Idle+BT Link+WLAN Link+Earphone
 : +Camera+MPEG4+GPS Rx+TC+Battery1
 Sample : A

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1515980	35.09	-30.82	65.91	34.85	0.10	0.14	QP
2	0.1515980	26.76	-29.15	55.91	26.52	0.10	0.14	Average
3	@0.1986310	41.94	-21.73	63.67	41.70	0.10	0.14	QP
4	@0.1986310	31.30	-22.37	53.67	31.06	0.10	0.14	Average
5	0.2630270	35.06	-26.28	61.34	34.59	0.10	0.37	QP
6	0.2630270	26.03	-25.31	51.34	25.56	0.10	0.37	Average
7	0.3303280	30.76	-28.68	59.44	30.09	0.10	0.57	QP
8	0.3303280	22.03	-27.41	49.44	21.36	0.10	0.57	Average
9	0.3955300	15.92	-32.03	47.95	15.10	0.10	0.72	Average
10	0.3955300	24.42	-33.53	57.95	23.60	0.10	0.72	QP
11	3.040	12.70	-33.30	46.00	12.24	0.10	0.36	Average
12	3.040	23.59	-32.41	56.00	23.13	0.10	0.36	QP



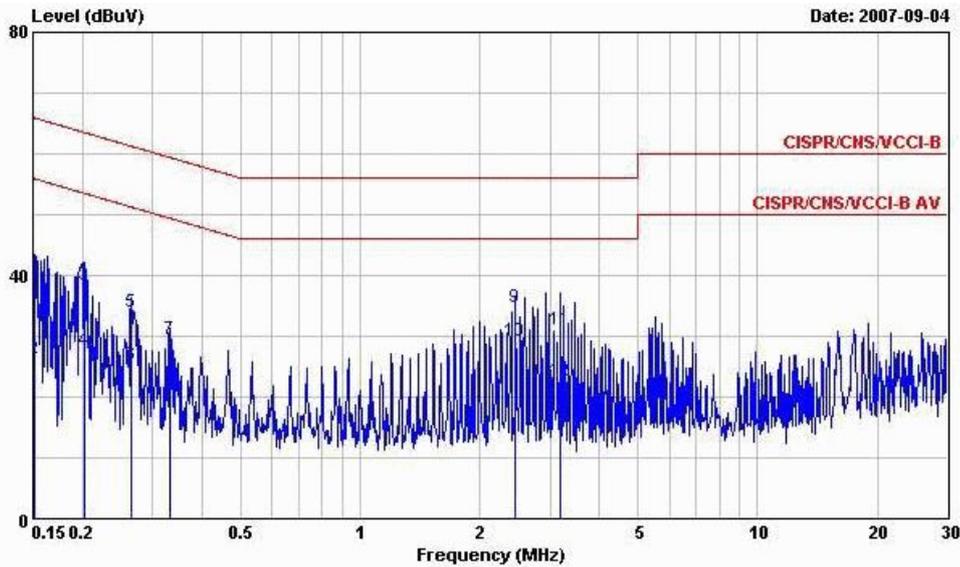
Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 NEUTRAL
 EUT : UMPC(GSM/GPRS/EDGE
 : (900MHz/1800MHz),UMTS/HSDPA)
 POWER: 120Vac/60Hz
 Model : FR 780709-01
 Memo : EDGE Idle+BT Link+WLAN Link+Earphone
 : +Camera+MPEG4+GPS Rx+TC+Battery1
 Sample : A

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1564950	33.54	-32.11	65.65	33.30	0.10	0.14	QP
2	0.1564950	21.33	-34.32	55.65	21.09	0.10	0.14	Average
3	0.1934380	33.22	-30.67	63.89	32.98	0.10	0.14	QP
4	0.1934380	25.75	-28.14	53.89	25.51	0.10	0.14	Average
5	0.2658290	35.11	-26.14	61.25	34.63	0.10	0.38	QP
6	0.2658290	28.02	-23.23	51.25	27.54	0.10	0.38	Average
7	0.3303280	32.05	-27.39	59.44	31.38	0.10	0.57	QP
8	0.3303280	27.50	-21.94	49.44	26.83	0.10	0.57	Average
9	0.5321540	27.40	-28.60	56.00	26.66	0.10	0.64	QP
10	0.5321540	25.29	-20.71	46.00	24.55	0.10	0.64	Average
11	3.190	35.82	-20.18	56.00	35.29	0.17	0.36	QP
12	3.190	27.05	-18.95	46.00	26.52	0.17	0.36	Average



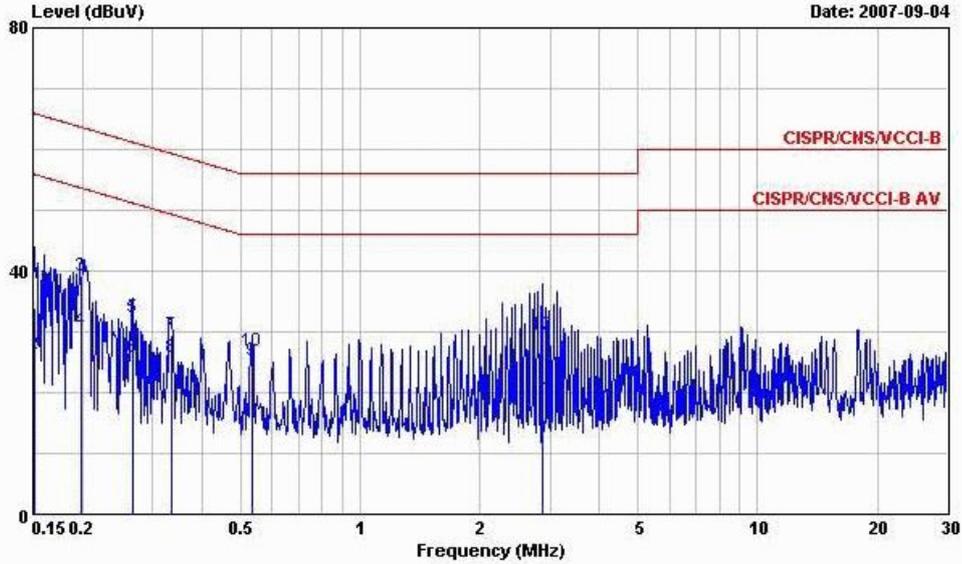
- Temperature : 27~28°C
- Relative Humidity : 51~53%
- Test Enginner : Sun
- Test Mode : Mode 3

The test that passed at minimum margin was marked by the frame in the following table.



Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 LINE
 EUT : UMP C(GSM/GPRS/EDGE
 : (900MHz/1800MHz),UMTS/HSDPA)
 POWER: 120Vac/60Hz
 Model : FR 780709-01
 Memo : WCDMA Idle+BT Link+WLAN Link+Earphone
 : +Camera+MPEG4+GPS Rx+TC+Battery1
 Sample : A

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1515980	35.01	-30.90	65.91	34.77	0.10	0.14	QP
2	0.1515980	26.38	-29.53	55.91	26.14	0.10	0.14	Average
3	0.2028850	38.29	-25.20	63.49	38.04	0.10	0.15	QP
4	0.2028850	27.65	-25.84	53.49	27.40	0.10	0.15	Average
5	0.2658290	34.07	-27.18	61.25	33.59	0.10	0.38	QP
6	0.2658290	25.23	-26.02	51.25	24.75	0.10	0.38	Average
7	0.3320820	29.44	-29.96	59.40	28.77	0.10	0.57	QP
8	0.3320820	21.22	-28.18	49.40	20.55	0.10	0.57	Average
9	2.460	34.72	-21.28	56.00	34.22	0.10	0.40	QP
10	2.460	29.11	-16.89	46.00	28.61	0.10	0.40	Average
11	3.190	31.14	-24.86	56.00	30.68	0.10	0.36	QP
12	3.190	22.65	-23.35	46.00	22.19	0.10	0.36	Average



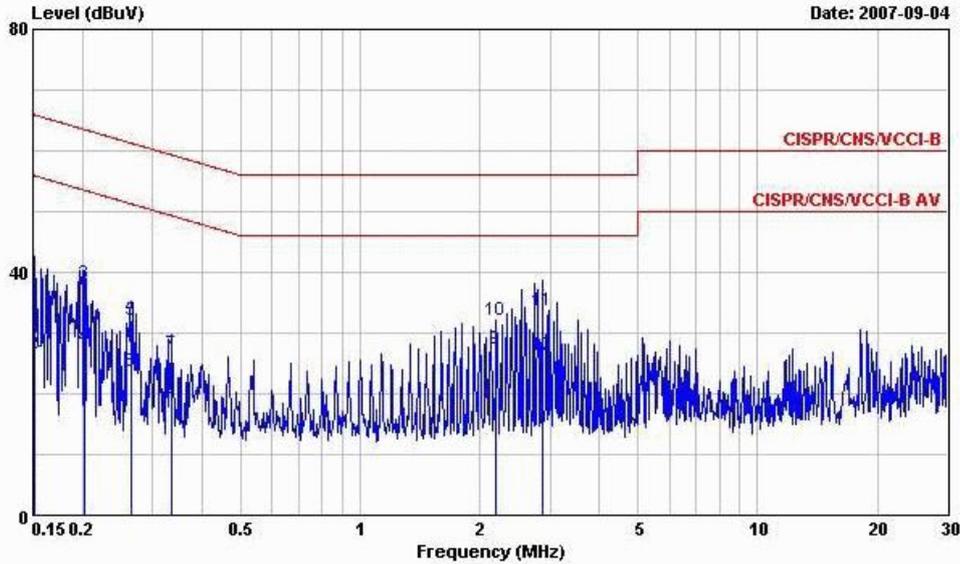
Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 NEUTRAL
 EUT : UMPC(GSM/GPRS/EDGE
 : (900MHz/1800MHz),UMTS/HSDPA)
 POWER: 120Vac/60Hz
 Model : FR 780709-01
 Memo : WCDMA Idle+BT Link+WLAN Link+Earphone
 : +Camera+MPEG4+GPS Rx+TC+Battery1
 Sample : A

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1507970	34.00	-31.96	65.96	33.76	0.10	0.14	QP
2	0.1507970	26.32	-29.64	55.96	26.08	0.10	0.14	Average
3	0.1986310	39.19	-24.48	63.67	38.95	0.10	0.14	QP
4	0.1986310	30.21	-23.46	53.67	29.97	0.10	0.14	Average
5	0.2686610	32.48	-28.68	61.16	31.99	0.10	0.39	QP
6	0.2686610	25.76	-25.40	51.16	25.27	0.10	0.39	Average
7	0.3356200	29.57	-29.74	59.31	28.89	0.10	0.58	QP
8	0.3356200	25.73	-23.58	49.31	25.05	0.10	0.58	Average
9	@0.5321540	25.15	-20.85	46.00	24.41	0.10	0.64	Average
10	0.5321540	26.78	-29.22	56.00	26.04	0.10	0.64	QP
11	2.870	18.92	-27.08	46.00	18.40	0.15	0.37	Average
12	2.870	29.52	-26.48	56.00	29.00	0.15	0.37	QP



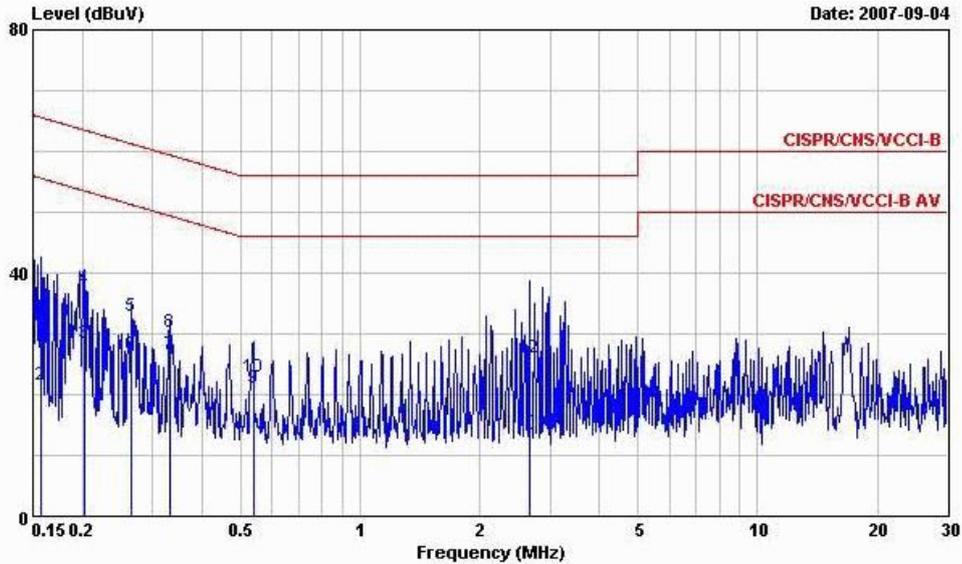
- Temperature : 27~28°C
- Relative Humidity : 51~53%
- Test Enginner : Sun
- Test Mode : Mode 4

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 LINE
 EUT : UMP C(GSM/GPRS/EDGE
 : (900MHz/1800MHz),UMTS/HSDPA)
 POWER: 120Vac/60Hz
 Model : FR 780709-01
 Memo : HSDPA Idle+BT Link+WLAN Link+Earphone
 : +Camera+MPEG4+GPS Rx+TC+Battery1
 Sample : A

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.1515980	33.94	-31.97	65.91	33.70	0.10	0.14	QP
2	0.1515980	26.65	-29.26	55.91	26.41	0.10	0.14	Average
3	0.2018130	38.29	-25.25	63.54	38.04	0.10	0.15	QP
4	0.2018130	27.51	-26.03	53.54	27.26	0.10	0.15	Average
5	0.2644240	32.17	-29.12	61.29	31.69	0.10	0.38	QP
6	0.2644240	23.74	-27.55	51.29	23.26	0.10	0.38	Average
7	0.3356200	26.46	-32.85	59.31	25.78	0.10	0.58	QP
8	0.3356200	19.17	-30.14	49.31	18.49	0.10	0.58	Average
9	2.200	27.43	-18.57	46.00	26.92	0.10	0.41	Average
10	2.200	32.08	-23.92	56.00	31.57	0.10	0.41	QP
11	2.870	33.79	-22.21	56.00	33.32	0.10	0.37	QP
12	2.870	26.22	-19.78	46.00	25.75	0.10	0.37	Average



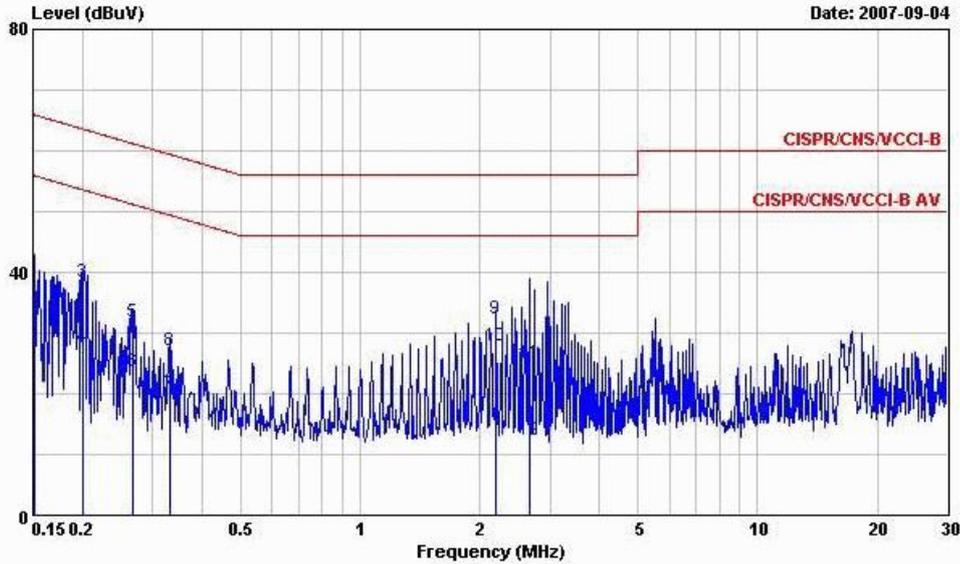
Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 NEUTRAL
 EUT : UMPC(GSM/GPRS/EDGE
 : (900MHz/1800MHz),UMTS/HSDPA)
 POWER: 120Vac/60Hz
 Model : FR 780709-01
 Memo : HSDPA Idle+BT Link+WLAN Link+Earphone
 : +Camera+MPEG4+GPS Rx+TC+Battery1
 Sample : A

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1564950	32.70	-32.95	65.65	32.46	0.10	0.14	QP
2	0.1564950	21.59	-34.06	55.65	21.35	0.10	0.14	Average
3	0.2028850	28.31	-25.18	53.49	28.06	0.10	0.15	Average
4	0.2028850	37.36	-26.13	63.49	37.11	0.10	0.15	QP
5	0.2658290	32.98	-28.27	61.25	32.50	0.10	0.38	QP
6	0.2658290	26.52	-24.73	51.25	26.04	0.10	0.38	Average
7	0.3320820	26.70	-22.70	49.40	26.03	0.10	0.57	Average
8	0.3320820	30.34	-29.06	59.40	29.67	0.10	0.57	QP
9	0.5378230	21.03	-24.97	46.00	20.29	0.10	0.64	Average
10	0.5378230	22.82	-33.18	56.00	22.08	0.10	0.64	QP
11	2.660	14.00	-32.00	46.00	13.47	0.14	0.39	Average
12	2.660	26.15	-29.85	56.00	25.62	0.14	0.39	QP



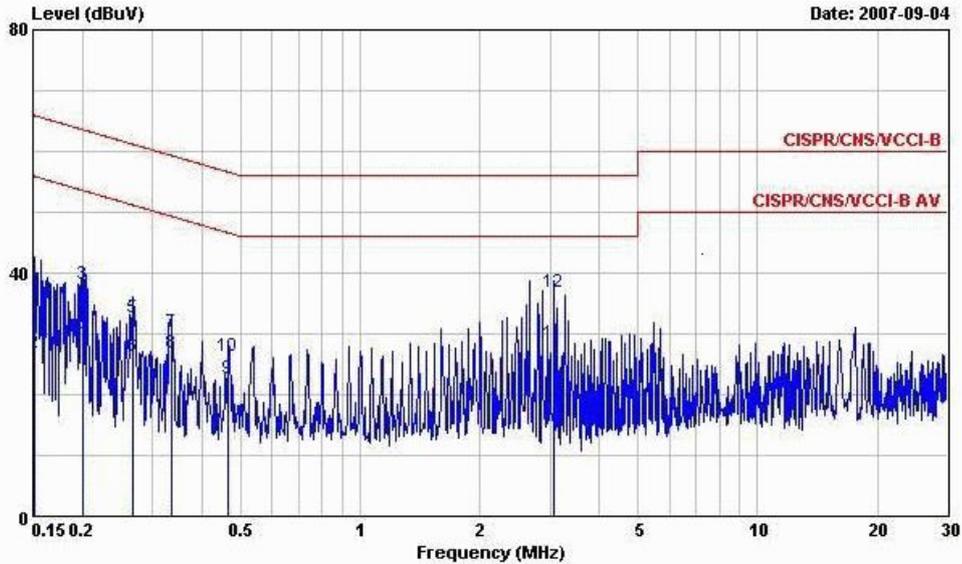
- Temperature : 27~28°C
- Relative Humidity : 51~53%
- Test Enginner : Sun
- Test Mode : Mode 5

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 LINE
 EUT : UMP C(GSM/GPRS/EDGE
 : (900MHz/1800MHz),UMTS/HSDPA)
 POWER: 120Vac/60Hz
 Model : FR 780709-01
 Memo : PCS1900 Idle+BT Link+WLAN Link+Earphone
 : +Camera+MPEG4+GPS Rx+TC+Battery1
 Sample : A

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1515980	33.68	-32.23	65.91	33.44	0.10	0.14	QP
2	0.1515980	26.81	-29.10	55.91	26.57	0.10	0.14	Average
3	0.1996860	38.40	-25.22	63.62	38.16	0.10	0.14	QP
4	0.1996860	27.59	-26.03	53.62	27.35	0.10	0.14	Average
5	0.2672410	31.92	-29.28	61.20	31.43	0.10	0.39	QP
6	0.2672410	23.66	-27.54	51.20	23.17	0.10	0.39	Average
7	0.3320820	19.88	-29.52	49.40	19.21	0.10	0.57	Average
8	0.3320820	27.09	-32.31	59.40	26.42	0.10	0.57	QP
9	2.200	32.34	-23.66	56.00	31.83	0.10	0.41	QP
10	2.200	27.84	-18.16	46.00	27.33	0.10	0.41	Average
11	2.660	24.95	-31.05	56.00	24.46	0.10	0.39	QP
12	2.660	12.45	-33.55	46.00	11.96	0.10	0.39	Average



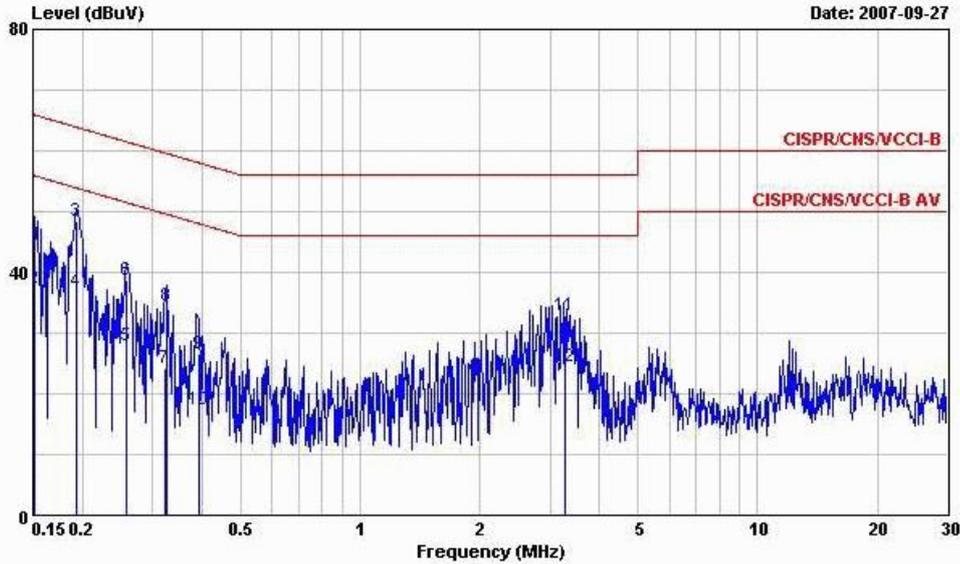
Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 NEUTRAL
 EUT : UMPC(GSM/GPRS/EDGE
 : (900MHz/1800MHz),UMTS/HSDPA)
 POWER: 120Vac/60Hz
 Model : FR 780709-01
 Memo : PCS1900 Idle+BT Link+WLAN Link+Earphone
 : +Camera+MPEG4+GPS Rx+TC+Battery1
 Sample : A

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1515980	33.66	-32.25	65.91	33.42	0.10	0.14	QP
2	0.1515980	26.92	-28.99	55.91	26.68	0.10	0.14	Average
3	0.2007470	38.15	-25.43	63.58	37.90	0.10	0.15	QP
4	0.2007470	29.36	-24.22	53.58	29.11	0.10	0.15	Average
5	0.2672410	32.75	-28.45	61.20	32.26	0.10	0.39	QP
6	0.2672410	26.34	-24.86	51.20	25.85	0.10	0.39	Average
7	0.3338470	30.30	-29.05	59.35	29.63	0.10	0.57	QP
8	0.3338470	26.75	-22.60	49.35	26.08	0.10	0.57	Average
9	0.4661350	22.58	-24.00	46.58	21.80	0.10	0.68	Average
10	0.4661350	26.27	-30.31	56.58	25.49	0.10	0.68	QP
11	3.070	28.46	-17.54	46.00	27.94	0.16	0.36	Average
12	3.070	36.72	-19.28	56.00	36.20	0.16	0.36	QP



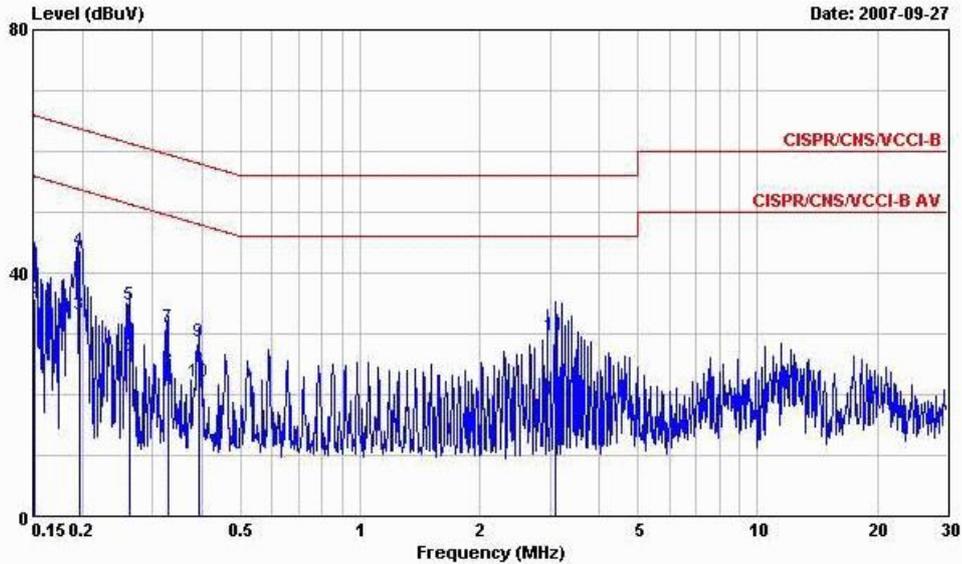
- Temperature : 27~28°C
- Relative Humidity : 51~53%
- Test Enginner : Sun
- Test Mode : Mode 6

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 LINE
 EUT : UMP C(GSM/GPRS/EDGE
 : (900MHz/1800MHz),UMTS/HSDPA)
 POWER: 120Vac/60Hz
 Model : FR 780709-01
 Memo : PCS1900 Idle+BT Link+WLAN Link+Earphone
 : +Camera+MPEG4+GPS Rx+TC+Battery2
 Sample : A

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.1515980	26.33	-29.58	55.91	26.09	0.10	0.14	Average
2	0.1515980	37.42	-28.49	65.91	37.18	0.10	0.14	QP
3	@0.1934380	48.35	-15.54	63.89	48.11	0.10	0.14	QP
4	@0.1934380	36.93	-16.96	53.89	36.69	0.10	0.14	Average
5	0.2588790	27.88	-23.59	51.47	27.42	0.10	0.36	Average
6	0.2588790	38.74	-22.73	61.47	38.28	0.10	0.36	QP
7	0.3238590	24.12	-25.49	49.61	23.47	0.10	0.55	Average
8	0.3251090	34.37	-25.21	59.58	33.72	0.10	0.55	QP
9	0.3937360	26.56	-31.42	57.98	25.74	0.10	0.72	QP
10	0.3937360	17.27	-30.71	47.98	16.45	0.10	0.72	Average
11	3.268	32.81	-23.19	56.00	32.36	0.10	0.35	QP
12	@ 3.268	24.59	-21.41	46.00	24.14	0.10	0.35	Average



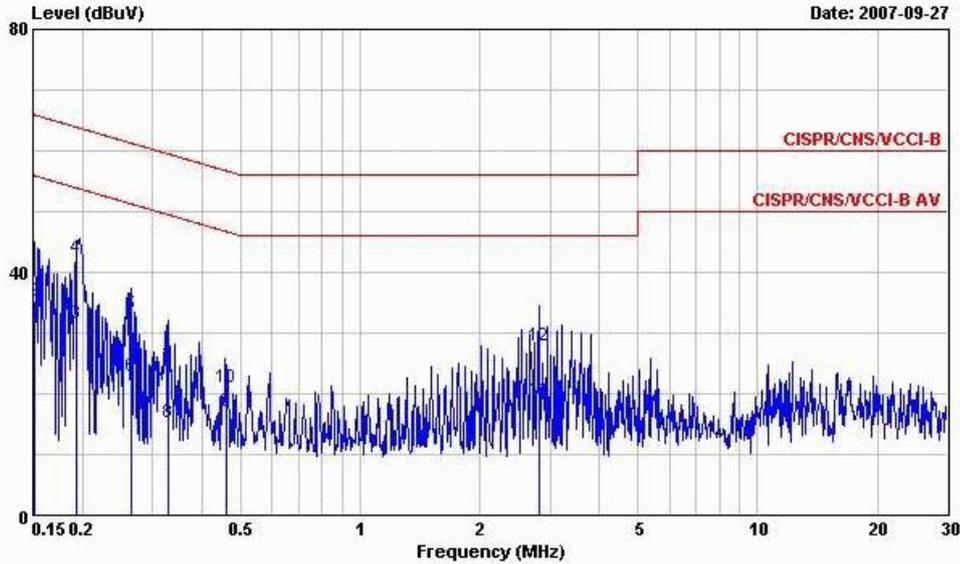
Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 NEUTRAL
 EUT : UMPC(GSM/GPRS/EDGE
 : (900MHz/1800MHz),UMTS/HSDPA)
 POWER: 120Vac/60Hz
 Model : FR 780709-01
 Memo : PCS1900 Idle+BT Link+WLAN Link+Earphone
 : +Camera+MPEG4+GPS Rx+TC+Battery2
 Sample : A

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1520000	24.26	-31.63	55.89	24.02	0.10	0.14	Average
2	0.1520000	35.72	-30.17	65.89	35.48	0.10	0.14	QP
3	0.1976010	33.04	-20.67	53.71	32.80	0.10	0.14	Average
4	0.1976010	43.66	-20.05	63.71	43.42	0.10	0.14	QP
5	0.2634870	34.65	-26.67	61.32	34.18	0.10	0.37	QP
6	0.2634870	26.20	-25.12	51.32	25.73	0.10	0.37	Average
7	0.3285220	31.04	-28.45	59.49	30.38	0.10	0.56	QP
8	0.3285220	23.94	-25.55	49.49	23.28	0.10	0.56	Average
9	0.3919210	28.56	-29.46	58.02	27.75	0.10	0.71	QP
10	0.3919210	22.23	-25.79	48.02	21.42	0.10	0.71	Average
11	3.084	29.75	-26.25	56.00	29.23	0.16	0.36	QP
12	3.084	19.28	-26.72	46.00	18.76	0.16	0.36	Average



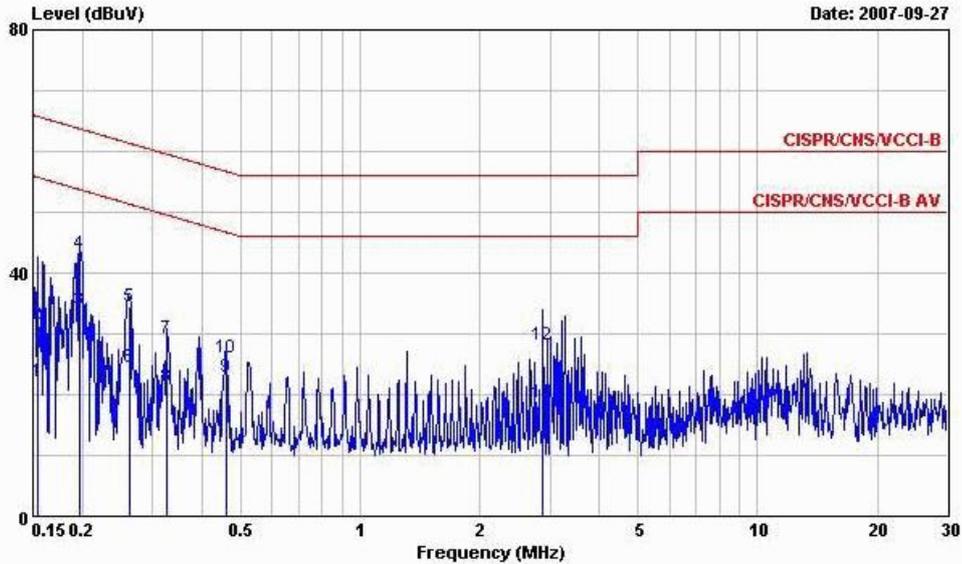
- Temperature : 27~28°C
- Relative Humidity : 51~53%
- Test Enginner : Sun
- Test Mode : Mode 7

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 LINE
 EUT : UMP C(GSM/GPRS/EDGE
 : (900MHz/1800MHz),UMTS/HSDPA)
 POWER: 120Vac/60Hz
 Model : FR 780709-01
 Memo : PCS1900 Idle+BT Link+WLAN Link+Earphone
 : +Camera+MPEG4+GPS Rx+TC+Battery2
 Sample : B

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1507970	24.33	-31.63	55.96	24.09	0.10	0.14	Average
2	0.1507970	35.22	-30.74	65.96	34.98	0.10	0.14	QP
3	@0.1925810	31.48	-22.44	53.92	31.24	0.10	0.14	Average
4	@0.1925810	42.31	-21.61	63.92	42.07	0.10	0.14	QP
5	0.2641940	33.06	-28.24	61.30	32.58	0.10	0.38	QP
6	0.2641940	23.02	-28.28	51.30	22.54	0.10	0.38	Average
7	0.3302980	24.60	-34.84	59.44	23.93	0.10	0.57	QP
8	0.3302980	15.28	-34.16	49.44	14.61	0.10	0.57	Average
9	0.4588600	17.03	-29.68	46.71	16.24	0.10	0.69	Average
10	0.4588600	21.02	-35.69	56.71	20.23	0.10	0.69	QP
11	2.810	18.98	-27.02	46.00	18.50	0.10	0.38	Average
12	2.810	27.94	-28.06	56.00	27.46	0.10	0.38	QP



Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 NEUTRAL
 EUT : UMPC(GSM/GPRS/EDGE
 : (900MHz/1800MHz),UMTS/HSDPA)
 POWER: 120Vac/60Hz
 Model : FR 780709-01
 Memo : PCS1900 Idle+BT Link+WLAN Link+Earphone
 : +Camera+MPEG4+GPS Rx+TC+Battery2
 Sample : B

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1539870	22.18	-33.60	55.78	21.94	0.10	0.14	Average
2	0.1539870	31.52	-34.26	65.78	31.28	0.10	0.14	QP
3	0.1965870	33.96	-19.79	53.75	33.72	0.10	0.14	Average
4	0.1965870	43.20	-20.55	63.75	42.96	0.10	0.14	QP
5	0.2622550	34.57	-26.79	61.36	34.10	0.10	0.37	QP
6	0.2622550	24.47	-26.89	51.36	24.00	0.10	0.37	Average
7	0.3271190	29.12	-30.40	59.52	28.46	0.10	0.56	QP
8	0.3271190	21.37	-28.15	49.52	20.71	0.10	0.56	Average
9	0.4587840	22.83	-23.88	46.71	22.04	0.10	0.69	Average
10	0.4587840	26.04	-30.67	56.71	25.25	0.10	0.69	QP
11	2.878	18.65	-27.35	46.00	18.13	0.15	0.37	Average
12	2.878	28.05	-27.95	56.00	27.53	0.15	0.37	QP

5.11 Radiated Emission Measurement

5.11.1 Measuring Instruments

As described in chapter 6 of this Report.

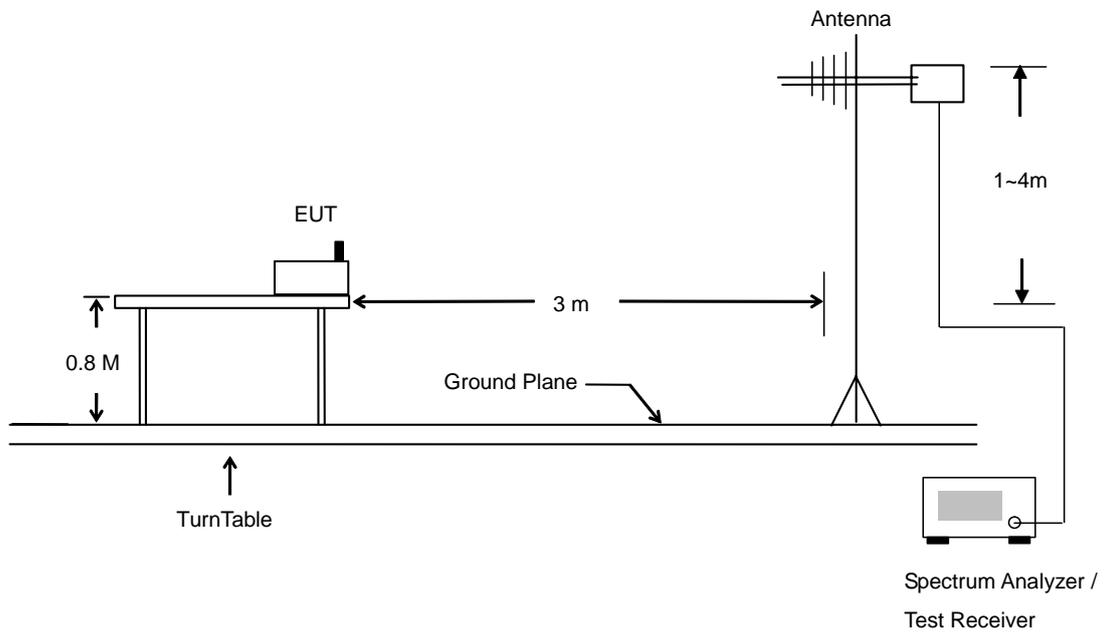
The spectrum analyzer setting :

30 ~ 1000 MHz	Detector : Quasi – Peak Bandwidth : 120 KHz
1 ~ 25 GHz	Detector : Peak and Average Bandwidth : 1 MHz

5.11.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- e. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or Average Detect Function and specified bandwidth with Maximum Hold Mode.
- g. For testing below 1GHz, If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

5.11.3 Typical Test Setup Layout of Radiated Emission

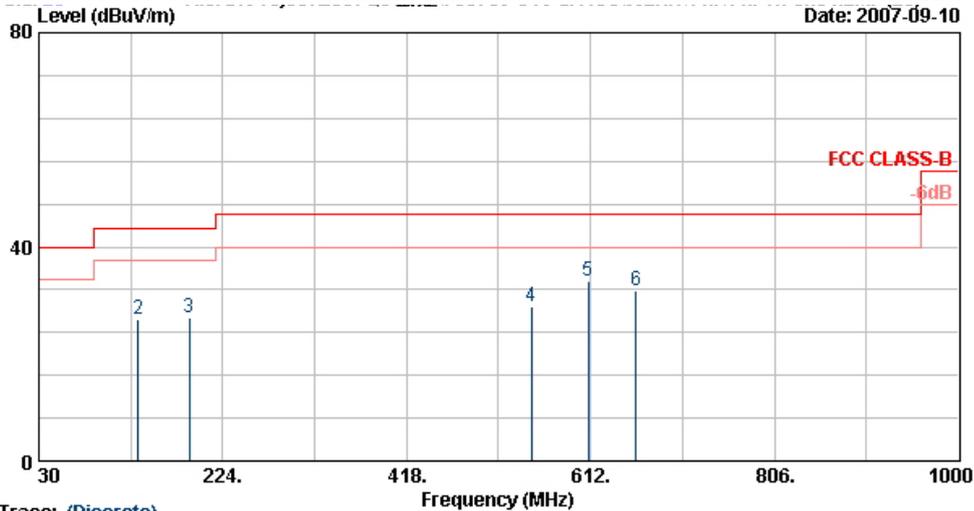




5.11.4 Test Data

- Temperature : 27~28°C
- Relating Humidity : 51~53%
- Test Enginner : Sun
- Test Mode : Mode 1
- Polarization : Horizontal

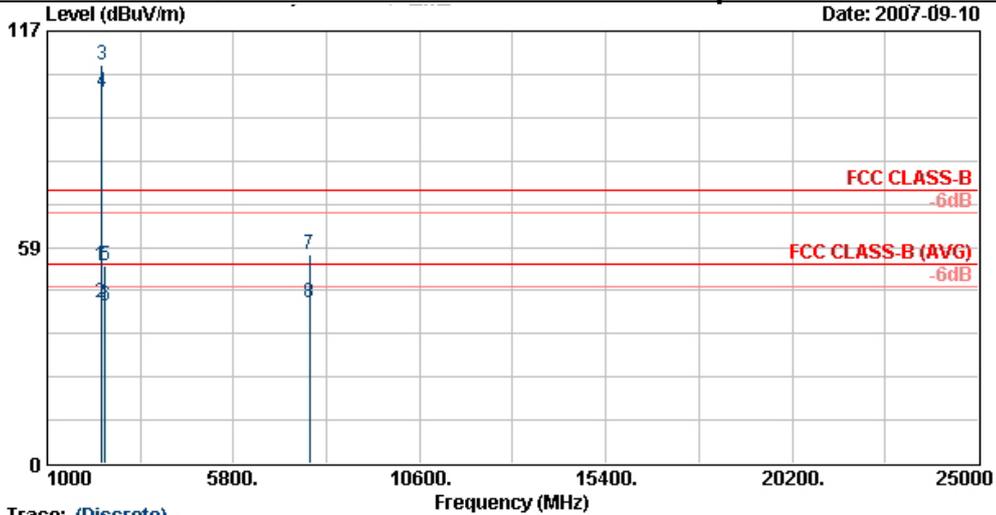
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 03CH06-HY
 Condition : LF-ANT(951121) HORIZONTAL
 EUT : UMFC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120V_{ac}/60Hz
 Model : FR 780709-01
 Memo : 11bTx_Ch01,2412MHz +Esophone+Adaptor
 Data Rate : 11
 Plane : H

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.5	23.90	-16.10	40.00	35.73	18.95	0.64	31.43	---	---	Peak
2	134.5	26.62	-16.88	43.50	45.37	11.05	1.26	31.07	---	---	Peak
3	188.5	26.90	-16.60	43.50	47.03	9.38	1.50	31.01	---	---	Peak
4	549.9	28.71	-17.29	46.00	38.71	17.94	2.78	30.73	---	---	Peak
5	609.4	33.71	-12.29	46.00	42.87	18.51	2.99	30.66	100	125	Peak
6	659.8	31.74	-14.26	46.00	40.53	18.72	3.13	30.64	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : SHF-EHF HORN HORIZONTAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Wac/60Hz
 Model : FR 780709-01
 Memo : 11bTx_C101,2412MHz +Earphone+Adaptor
 Data Rate : 11
 Plane : H

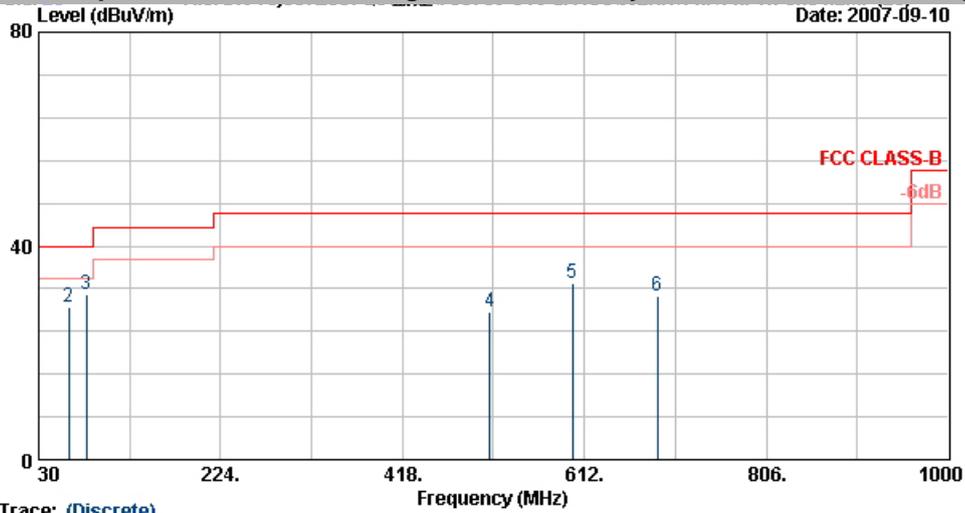
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2390.0	53.42	-20.58	74.00	54.87	30.26	3.75	35.46	100	0	Peak
2	2390.0	43.35	-10.65	54.00	44.80	30.26	3.75	35.46	100	147	Average
3 X	2412.0	107.80			109.22	30.27	3.77	35.46	100	0	Peak
4 X	2412.0	100.38			101.80	30.27	3.77	35.46	100	147	Average
5	2488.0	53.66	-20.34	74.00	55.01	30.30	3.86	35.51	100	0	Peak
6	2488.0	42.84	-11.16	54.00	44.19	30.30	3.86	35.51	100	147	Average
7	7752.0	56.43	-17.57	74.00	45.43	39.25	7.70	35.95	100	0	Peak
8	7752.0	43.28	-10.72	54.00	32.28	39.25	7.70	35.95	100	153	Average

Remark: #3 and #4 Fundamental Signal



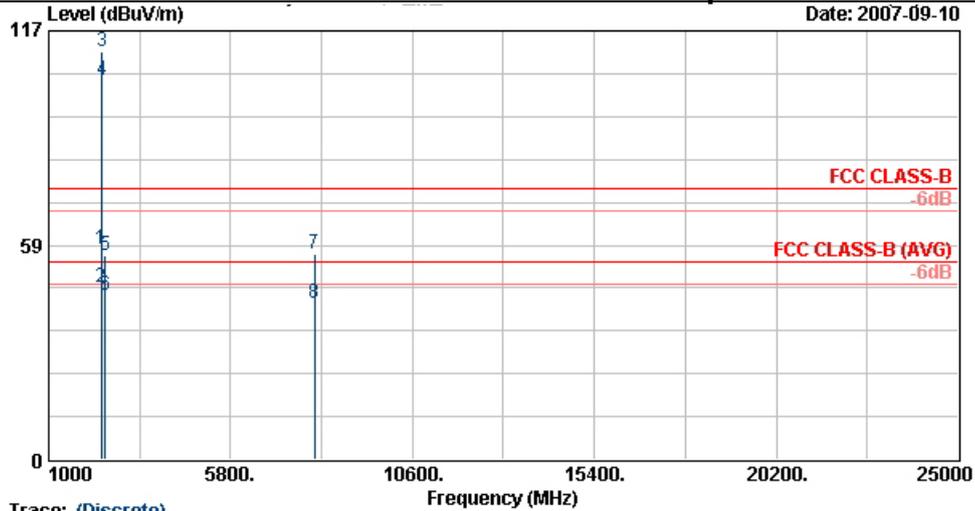
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LF-ANT(951121) VERTICAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 116Tx_CH01;2412MHz +Earphone+Adaptor
 Data Rate : 11
 Plane : H

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.0	25.01	-14.99	40.00	36.18	19.66	0.63	31.46	---	---	Peak
2	62.1	28.62	-11.38	40.00	52.27	6.67	0.87	31.20	---	---	Peak
3	81.0	30.93	-9.07	40.00	53.38	7.67	0.98	31.09	100	149	Peak
4	511.4	27.64	-18.36	46.00	38.23	17.54	2.65	30.78	---	---	Peak
5	598.9	32.96	-13.04	46.00	42.22	18.45	2.95	30.66	---	---	Peak
6	689.9	30.57	-15.43	46.00	39.11	18.85	3.22	30.60	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : SHF-EHF HORN VERTICAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 11bTx_CH01;2412MHz +Earphone+Adaptor
 Data Rate : 11
 Plane : H

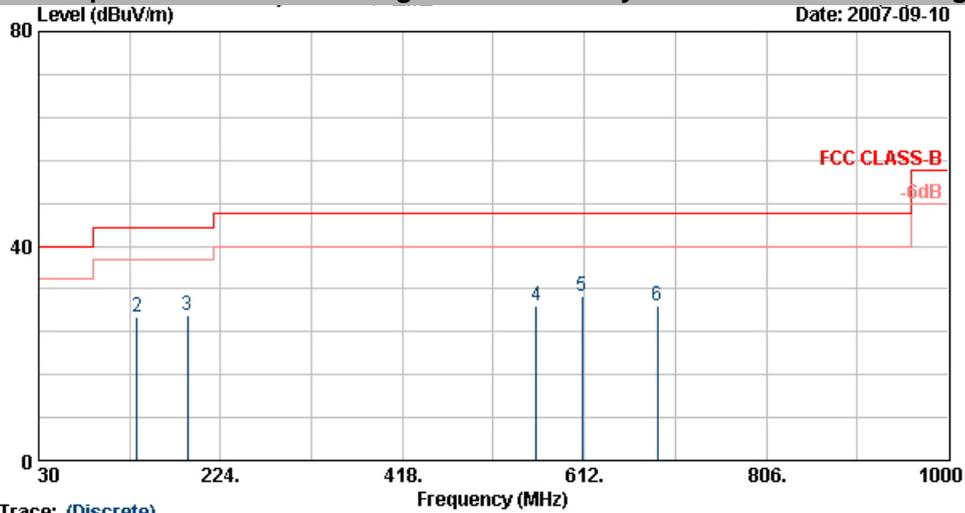
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor	Pos	Pos	
					dBuV	dB/m	dB	dB	cm	deg	
1	2390.0	57.52	-16.48	74.00	58.97	30.26	3.75	35.46	100	0	Peak
2	2390.0	46.77	-7.23	54.00	48.22	30.26	3.75	35.46	100	8	Average
3 X	2412.0	111.47			112.89	30.27	3.77	35.46	100	0	Peak
4 @	2412.0	103.68			105.10	30.27	3.77	35.46	100	8	Average
5	2498.0	55.49	-18.51	74.00	56.84	30.30	3.88	35.53	100	0	Peak
6	2498.0	44.60	-9.40	54.00	45.95	30.30	3.88	35.53	100	8	Average
7	8022.0	56.31	-17.69	74.00	44.76	39.59	7.83	35.86	100	0	Peak
8	8022.0	42.64	-11.36	54.00	31.08	39.59	7.83	35.86	100	262	Average

Remark: #3 and #4 Fundamental Signal



- Test Mode : Mode 2
- Polarization : Horizontal

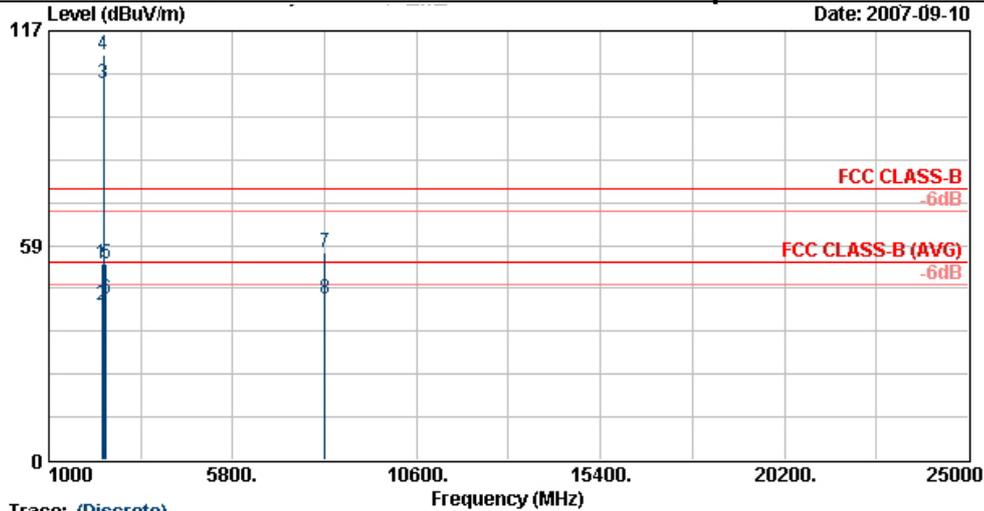
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 08CH06-HY
 Condition : LP-ANT(951121) HORIZONTAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 11b Tx_CM06;2437MHz +Esophone+Adaptex
 Data Rate : 11
 Plane : H

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.5	23.33	-16.67	40.00	35.16	18.95	0.64	31.43	---	---	Peak
2	134.5	26.71	-16.79	43.50	45.46	11.05	1.26	31.07	---	---	Peak
3	188.5	26.92	-16.58	43.50	47.06	9.38	1.50	31.01	---	---	Peak
4	560.4	28.89	-17.11	46.00	38.72	18.06	2.82	30.72	---	---	Peak
5	609.4	30.52	-15.48	46.00	39.68	18.51	2.99	30.66	100	182	Peak
6	689.9	28.99	-17.01	46.00	37.52	18.85	3.22	30.60	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : SHF-EHF HORN HORIZONTAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 11b Tx_Ch06_2437MHz +Earphone+Adaptor
 Data Rate : 11
 Plane : H

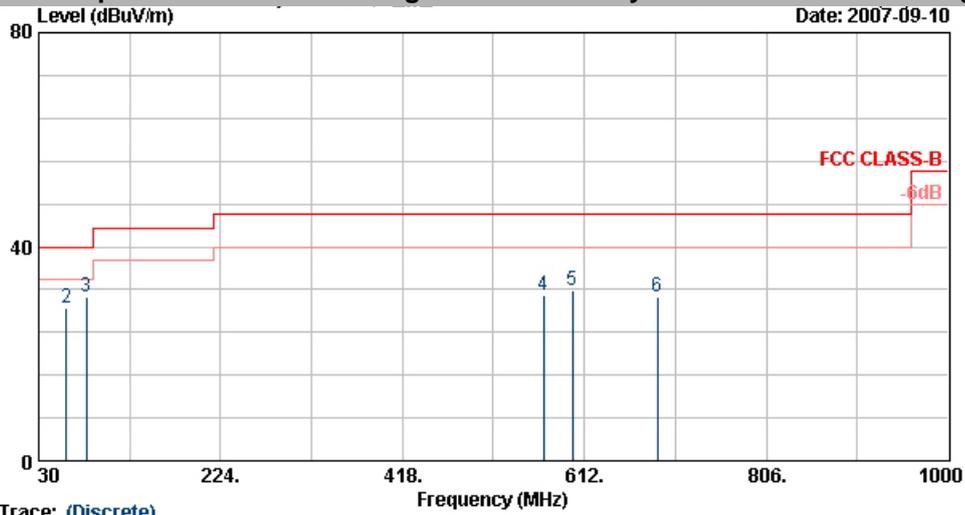
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2384.0	53.39	-20.61	74.00	54.83	30.25	3.75	35.44	100	0	Peak
2	2384.0	42.33	-11.67	54.00	43.77	30.25	3.75	35.44	100	147	Average
3 X	2437.0	102.52			103.90	30.28	3.82	35.47	100	147	Average
4 X	2437.0	110.29			111.67	30.28	3.82	35.47	100	0	Peak
5	2483.5	53.50	-20.50	74.00	54.86	30.29	3.86	35.51	100	0	Peak
6	2483.5	43.93	-10.07	54.00	45.29	30.29	3.86	35.51	100	147	Average
7	8211.0	56.68	-17.32	74.00	45.17	39.43	8.04	35.97	100	0	Peak
8	8211.0	44.14	-9.86	54.00	32.64	39.43	8.04	35.97	100	105	Average

Remark: #3 and #4 Fundamental Signal



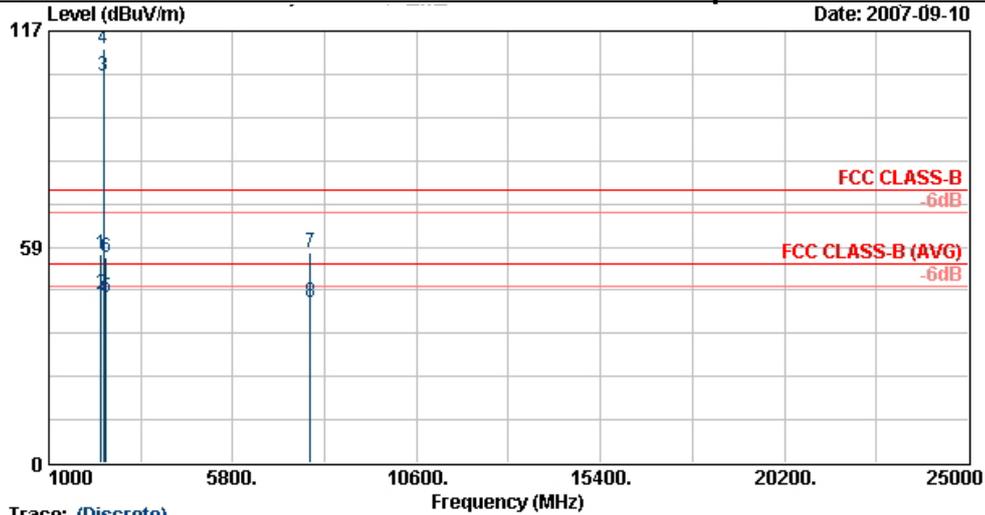
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LF-ANT(951121) VERTICAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 12V_{ac}/60Hz
 Model : FR 780709-01
 Memo : 11b Tx_Chi06;2437MHz +Earphone+Adaptor
 Data Rate : 11
 Plane : H

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.0	23.93	-16.07	40.00	35.10	19.66	0.63	31.46	---	---	Peak
2	59.4	28.40	-11.60	40.00	52.02	6.77	0.85	31.23	---	---	Peak
3	81.0	30.71	-9.29	40.00	53.15	7.67	0.98	31.09	100	205	Peak
4	568.8	31.06	-14.94	46.00	40.78	18.14	2.85	30.70	---	---	Peak
5	598.9	31.86	-14.14	46.00	41.12	18.45	2.95	30.66	---	---	Peak
6	689.9	30.56	-15.44	46.00	39.09	18.85	3.22	30.60	---	---	Peak



Trace: (Discrete)

Site : 08CH06-HY
 Condition : SHF-EHF HORN VERTICAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 11b Tx_CH06;2437MHz +Earphone+Adaptor
 Data Rate : 11
 Plane : H

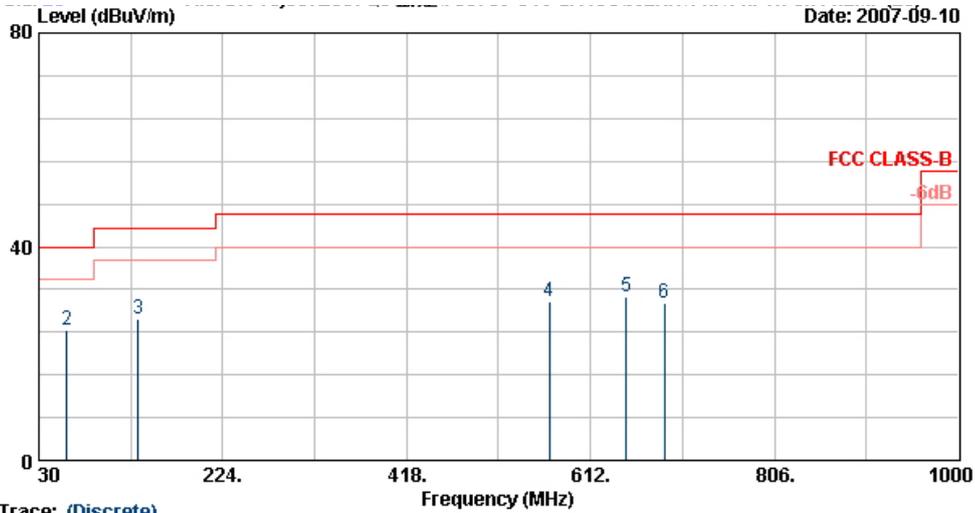
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2368.0	56.44	-17.56	74.00	57.91	30.24	3.73	35.44	100	0	Peak
2	2368.0	45.65	-8.35	54.00	47.11	30.24	3.73	35.44	103	6	Average
3 @	2437.0	104.72			106.10	30.28	3.82	35.47	103	6	Average
4 X	2437.0	112.32			113.70	30.28	3.82	35.47	100	0	Peak
5	2483.5	44.81	-9.19	54.00	46.17	30.29	3.86	35.51	103	6	Average
6	2483.5	55.59	-18.41	74.00	56.95	30.29	3.86	35.51	100	0	Peak
7	7827.0	57.05	-16.95	74.00	45.87	39.37	7.73	35.91	100	0	Peak
8	7827.0	43.69	-10.31	54.00	32.51	39.37	7.73	35.91	100	130	Average

Remark: #3 and #4 Fundamental Signal



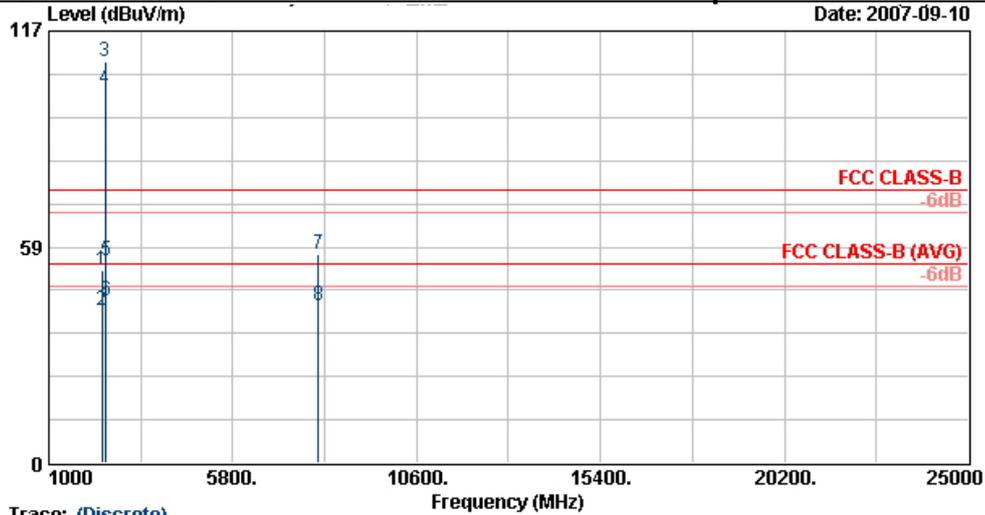
- Test Mode : Mode 3
- Polarization : Horizontal

The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LF-ANT(951121) HORIZONTAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 11b Tx_Ch11;2462MHz +Earphone+Adaptor
 Data Rate : 11
 Plane : H

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBUV/m	dB	dBUV/m	dBUV	dB/m	dB	dB	cm	deg	
1	30.5	23.93	-16.07	40.00	35.76	18.95	0.64	31.43	---	---	Peak
2	59.4	24.47	-15.53	40.00	48.08	6.77	0.85	31.23	---	---	Peak
3	134.5	26.53	-16.97	43.50	45.28	11.05	1.26	31.07	---	---	Peak
4	568.8	29.81	-16.19	46.00	39.53	18.14	2.85	30.70	---	---	Peak
5	649.3	30.76	-15.24	46.00	39.63	18.67	3.10	30.65	100	135	Peak
6	689.9	29.48	-16.52	46.00	38.01	18.85	3.22	30.60	---	---	Peak



Trace: (Discrete)

Site : 08CH06-HY
 Condition : SHF-EHF HORN HORIZONTAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 11b Tx_Ch11;2462MHz +Esaphone+Adaptor
 Data Rate : 11
 Plane : H

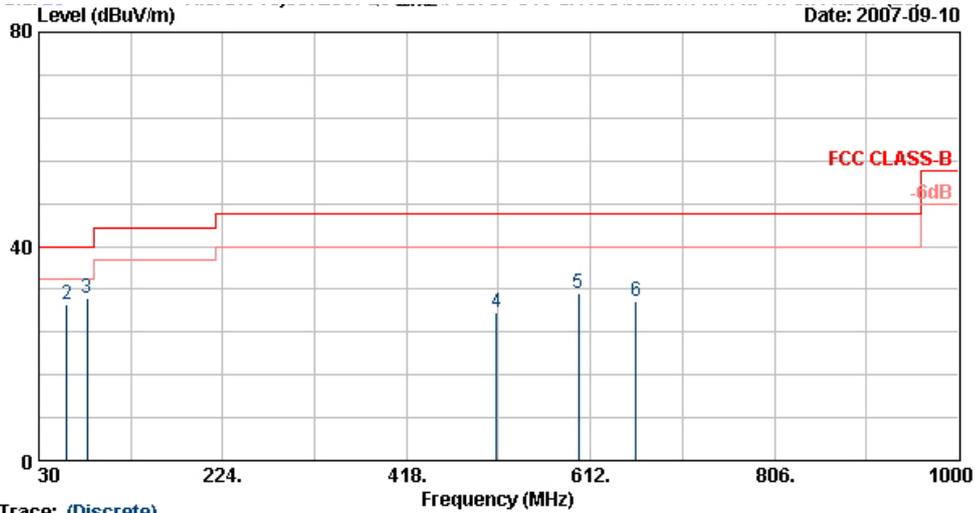
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	Remark
1	2384.0	52.01	-21.99	74.00	53.45	30.25	3.75	35.44	100	0	Peak
2	2384.0	41.31	-12.69	54.00	42.75	30.25	3.75	35.44	100	147	Average
3 X	2462.0	108.84			110.20	30.29	3.84	35.49	100	0	Peak
4 X	2462.0	101.23			102.60	30.29	3.84	35.49	100	147	Average
5	2483.5	54.71	-19.29	74.00	56.07	30.29	3.86	35.51	100	0	Peak
6	2483.5	43.98	-10.02	54.00	45.34	30.29	3.86	35.51	100	147	Average
7	8037.0	56.47	-17.53	74.00	44.94	39.57	7.83	35.87	100	0	Peak
8	8037.0	42.83	-11.17	54.00	31.30	39.57	7.83	35.87	100	135	Average

Remark: #3 and #4 Fundamental Signal



- Polarization : Vertical

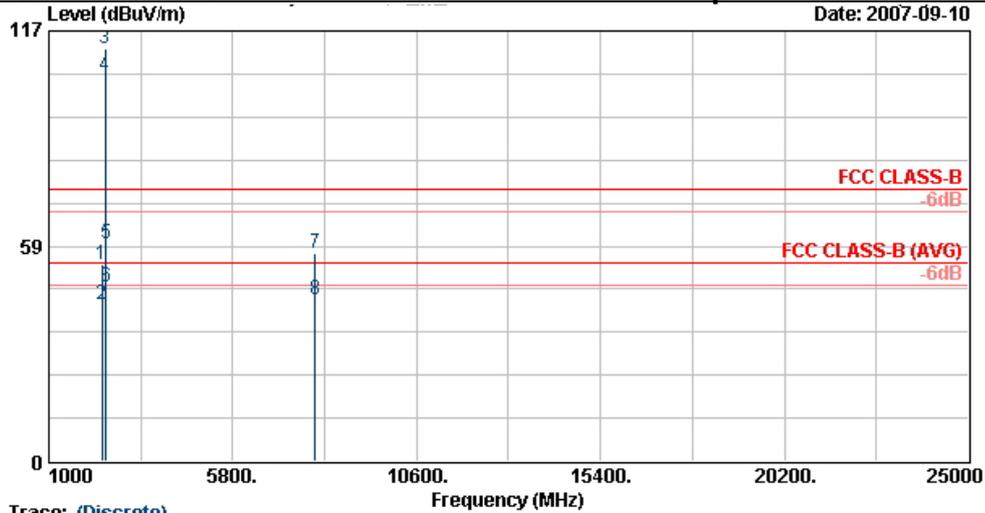
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 08CH06-HY
 Condition : LP-ANT(951121) VERTICAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120V_{ac}/60Hz
 Model : FR 780709-01
 Memo : 11b Tx_Ch11;2462MHz +Earphone+Adaptor
 Data Rate : 11
 Plane : H

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.0	24.90	-15.10	40.00	36.07	19.66	0.63	31.46	---	---	Peak
2	59.4	29.13	-10.87	40.00	52.75	6.77	0.85	31.23	---	---	Peak
3	81.0	30.25	-9.75	40.00	52.70	7.67	0.98	31.09	100	247	Peak
4	512.8	27.53	-18.47	46.00	38.09	17.56	2.65	30.77	---	---	Peak
5	598.9	31.31	-14.69	46.00	40.57	18.45	2.95	30.66	---	---	Peak
6	659.8	29.82	-16.18	46.00	38.61	18.72	3.13	30.64	---	---	Peak



Trace: (Discrete)

Site : 08CH06-HY
 Condition : SHF-EHF HORN VERTICAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 11b Tx_Ch11;2462MHz +Earphone+Adaptor
 Data Rate : 11
 Plane : H

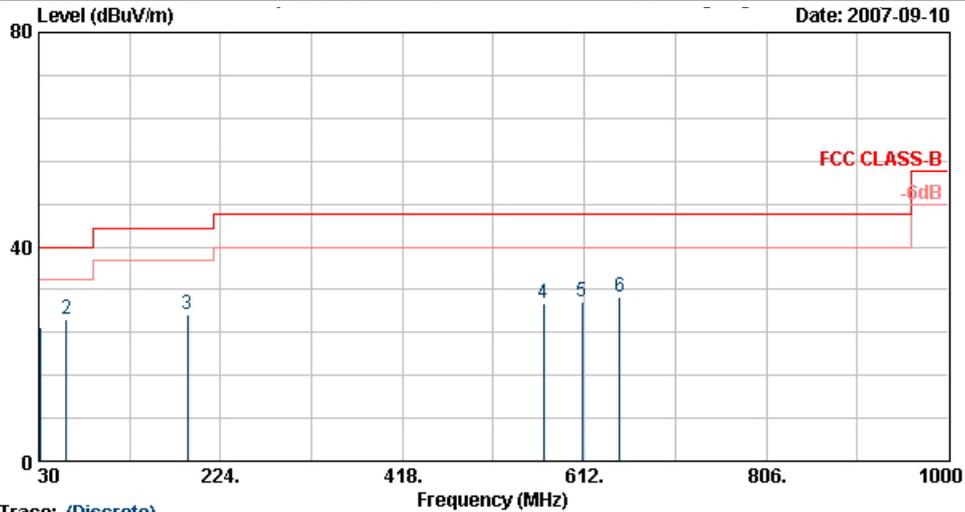
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2384.0	53.35	-20.65	74.00	54.79	30.25	3.75	35.44	100	0	Peak
2	2384.0	42.52	-11.48	54.00	43.96	30.25	3.75	35.44	103	20	Average
3 X	2462.0	112.39			113.76	30.29	3.84	35.49	100	0	Peak
4 @	2462.0	104.73			106.10	30.29	3.84	35.49	103	20	Average
5	2483.5	58.98	-15.02	74.00	60.34	30.29	3.86	35.51	100	0	Peak
6	2483.5	47.61	-6.39	54.00	48.97	30.29	3.86	35.51	103	20	Average
7	7947.0	56.62	-17.38	74.00	45.18	39.53	7.78	35.87	100	0	Peak
8	7947.0	43.98	-10.02	54.00	32.54	39.53	7.78	35.87	100	240	Average

Remark: #3 and #4 Fundamental Signal



- Test Mode : Mode 4
- Polarization : Horizontal

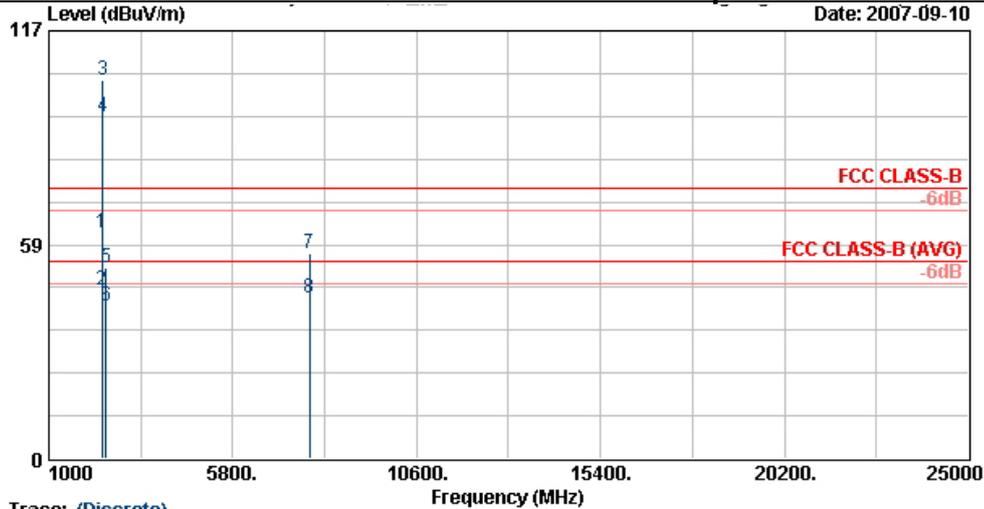
The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 08CH06-HY
 Condition : LP-ANT(951121) HORIZONTAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 11g Tx_Cho1_2412MHz +Esophone+Adaptor
 Data Rate : 12
 Plane : H

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.1	25.00	-15.00	40.00	36.83	18.95	0.64	31.43	---	---	Peak
2	59.4	26.51	-13.49	40.00	50.13	6.77	0.85	31.23	100	115	Peak
3	188.5	27.26	-16.24	43.50	47.39	9.38	1.50	31.01	---	---	Peak
4	568.8	29.59	-16.41	46.00	39.30	18.14	2.85	30.70	---	---	Peak
5	609.4	29.65	-16.35	46.00	38.81	18.51	2.99	30.66	---	---	Peak
6	649.3	30.63	-15.37	46.00	39.50	18.67	3.10	30.65	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : SHF-EHF HORN HORIZONTAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120V_{ac}/60Hz
 Model : FR 780709-01
 Memo : 11g Tx_Ch01,2412MHz +Earphone+Adaptor
 Data Rate : 12
 Plane : H

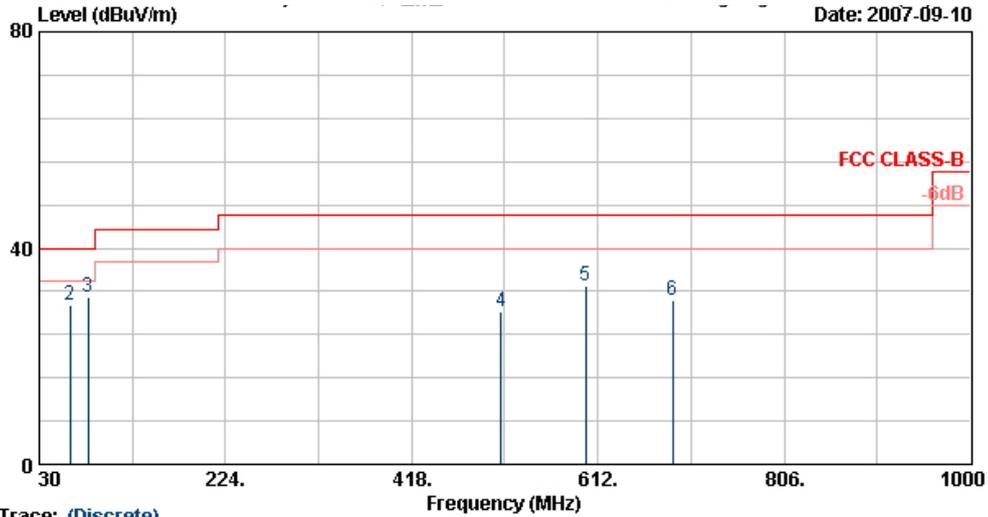
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2390.0	61.69	-12.31	74.00	63.14	30.26	3.75	35.46	100	0	Peak
2	2390.0	45.96	-8.04	54.00	47.41	30.26	3.75	35.46	100	148	Average
3 X	2412.0	103.47			104.89	30.27	3.77	35.46	100	0	Peak
4 X	2412.0	93.37			94.79	30.27	3.77	35.46	100	148	Average
5	2494.0	52.40	-21.60	74.00	53.75	30.30	3.88	35.53	100	0	Peak
6	2494.0	41.76	-12.24	54.00	43.11	30.30	3.88	35.53	100	148	Average
7	7812.0	56.26	-17.74	74.00	45.11	39.34	7.73	35.92	100	0	Peak
8	7812.0	43.72	-10.28	54.00	32.57	39.34	7.73	35.92	100	324	Average

Remark: #3 and #4 Fundamental Signal



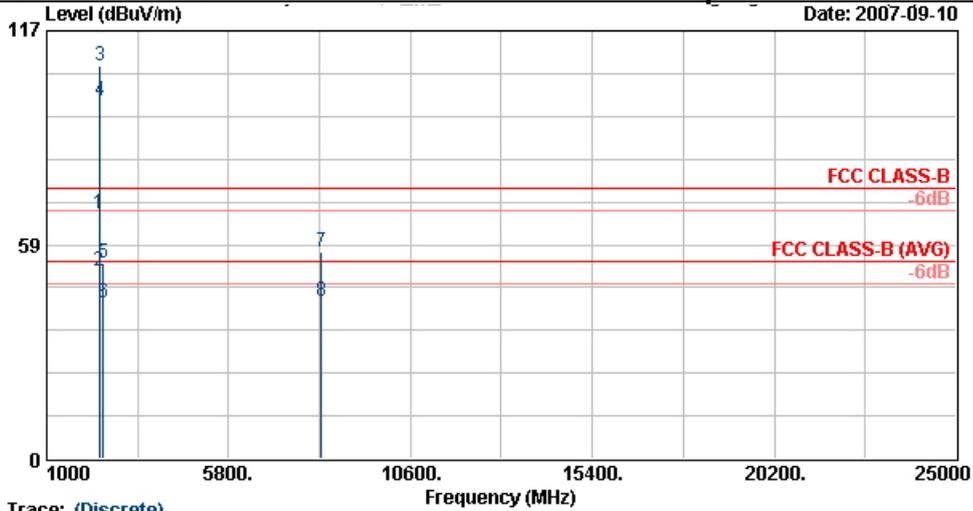
- Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LF-ANT(951121) VERTICAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Wac/60Hz
 Model : FR 780709-01
 Memo : 11g Tx_Ch01,2412MHz +Earphone+Adaptor
 Data Rate : 12
 Plane : H

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.0	24.59	-15.41	40.00	35.76	19.66	0.63	31.46	---	---	Peak
2	62.1	29.43	-10.57	40.00	53.09	6.67	0.87	31.20	---	---	Peak
3	81.0	30.93	-9.07	40.00	53.38	7.67	0.98	31.09	100	138	Peak
4	511.4	28.27	-17.73	46.00	38.86	17.54	2.65	30.78	---	---	Peak
5	598.9	32.97	-13.03	46.00	42.23	18.45	2.95	30.66	---	---	Peak
6	689.9	30.33	-15.67	46.00	38.87	18.85	3.22	30.60	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : SHP-EHF HORN VERTICAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 11g Tx_Cho1_2412MHz +Earphone+Adaptor
 Data Rate : 12
 Plane : H

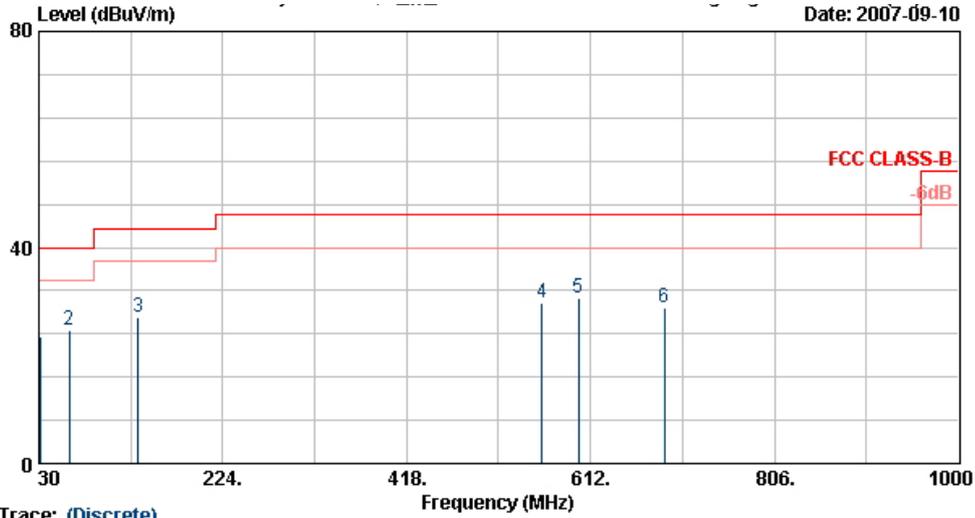
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor	Pos	Pos	
					dBuV	dB/m	dB	dB	cm	deg	
1	2390.0	67.07	-6.93	74.00	68.52	30.26	3.75	35.46	100	0	Peak
2	2390.0	51.41	-2.59	54.00	52.86	30.26	3.75	35.46	103	354	Average
3	2412.0	107.30			108.72	30.27	3.77	35.46	100	0	Peak
4	2412.0	97.85			99.27	30.27	3.77	35.46	103	354	Average
5	2494.0	53.60	-20.40	74.00	54.95	30.30	3.88	35.53	100	0	Peak
6	2494.0	42.47	-11.53	54.00	43.82	30.30	3.88	35.53	103	354	Average
7	8247.0	56.44	-17.56	74.00	44.96	39.41	8.06	35.98	100	0	Peak
8	8247.0	43.16	-10.84	54.00	31.68	39.41	8.06	35.98	100	201	Average

Remark: #3 and #4 Fundamental Signal



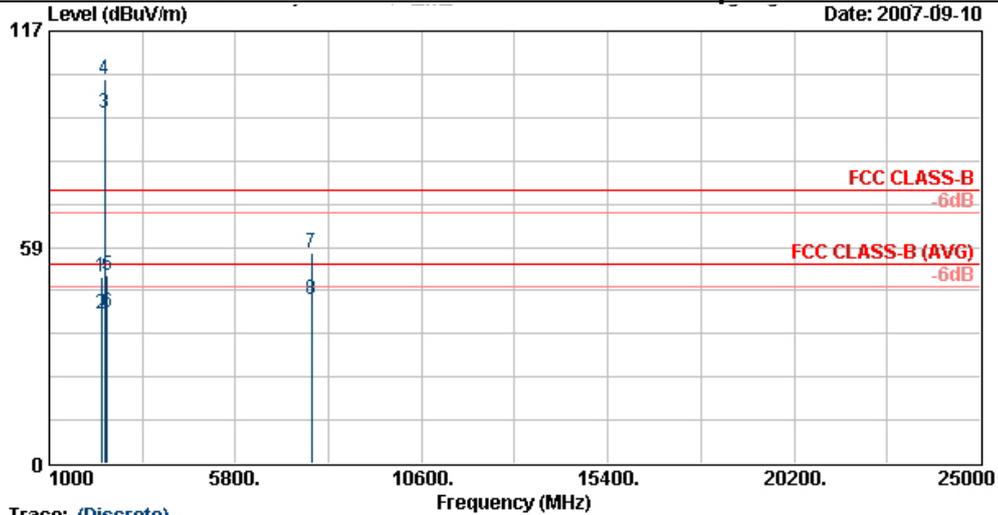
- Test Mode : Mode 5
- Polarization : Horizontal

The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : LF-ANT(951121) HORIZONTAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120V_{ac}/60Hz
 Model : FR 780709-01
 Memo : 11g Tx_CH06_2437MHz +Earphone+Adaptor
 Data Rate : 12
 Plane : H

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.6	23.39	-16.61	40.00	35.89	18.25	0.65	31.39	---	---	Peak
2	62.1	24.74	-15.26	40.00	48.40	6.67	0.87	31.20	100	216	Peak
3	134.5	27.00	-16.50	43.50	45.76	11.05	1.26	31.07	---	---	Peak
4	560.4	29.82	-16.18	46.00	39.66	18.06	2.82	30.72	---	---	Peak
5	598.9	30.53	-15.47	46.00	39.78	18.45	2.95	30.66	---	---	Peak
6	689.9	28.93	-17.07	46.00	37.46	18.85	3.22	30.60	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : SHF-EHF HORN HORIZONTAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Wac/60Hz
 Model : FR 780709-01
 Memo : 11g Tx_Ch06:2437MHz +Earphone+Adaptor
 Data Rate : 12
 Plane : H

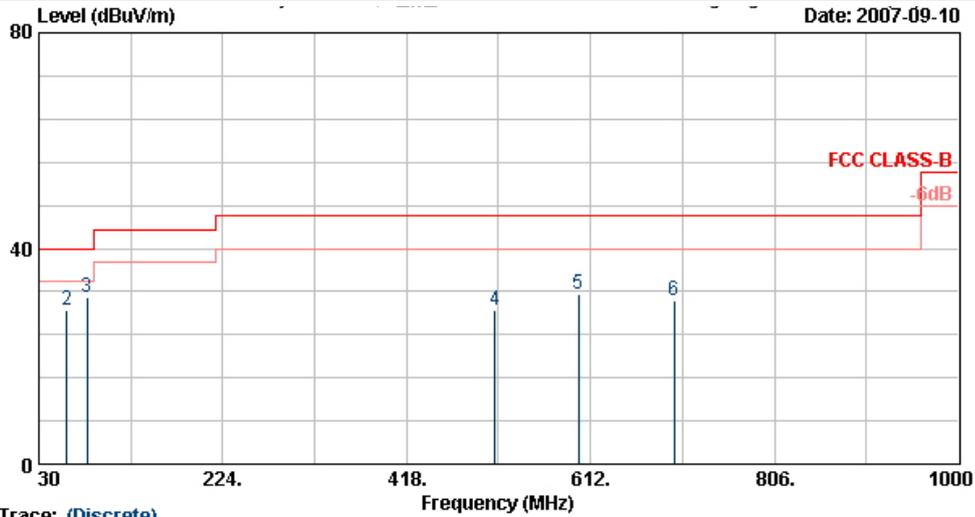
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2344.0	50.65	-23.35	74.00	52.13	30.24	3.71	35.42	100	0	Peak
2	2344.0	40.32	-13.68	54.00	41.80	30.24	3.71	35.42	100	147	Average
3 X	2437.0	94.92			96.30	30.28	3.82	35.47	100	147	Average
4 X	2437.0	103.81			105.21	30.28	3.82	35.49	100	0	Peak
5	2488.0	51.06	-22.94	74.00	52.41	30.30	3.86	35.51	100	0	Peak
6	2488.0	40.95	-13.05	54.00	42.30	30.30	3.86	35.51	100	147	Average
7	7761.0	56.90	-17.10	74.00	45.86	39.27	7.71	35.95	100	0	Peak
8	7761.0	44.19	-9.81	54.00	33.16	39.27	7.71	35.95	100	85	Average

Remark: #3 and #4 Fundamental Signal



- Polarization : Vertical

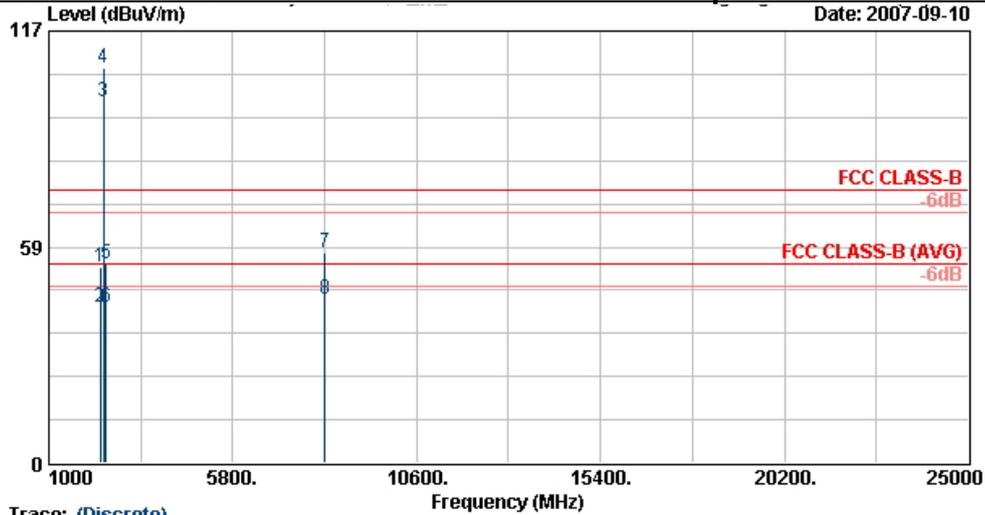
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 08CH06-HY
 Condition : LF-ANT(951121) VERTICAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120V_{ac}/60Hz
 Model : FR 780709-01
 Memo : 11g Tx_CH06;2437MHz +Earphone+Adaptor
 Data Rate : 12
 Plane : H

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.0	24.91	-15.09	40.00	36.08	19.66	0.63	31.46	---	---	Peak
2	59.4	28.42	-11.58	40.00	52.04	6.77	0.85	31.23	---	---	Peak
3	81.0	31.03	-8.97	40.00	53.47	7.67	0.98	31.09	100	148	Peak
4	511.4	28.44	-17.56	46.00	39.03	17.54	2.65	30.78	---	---	Peak
5	598.9	31.38	-14.62	46.00	40.64	18.45	2.95	30.66	---	---	Peak
6	700.4	30.24	-15.76	46.00	38.69	18.89	3.25	30.59	---	---	Peak



Trace: (Discrete)

Site : 08CH06-HY
 Condition : SHF-EHF HORN VERTICAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 11g Tx_CH06_2437MHz +Earphone+Adaptor
 Data Rate : 12
 Plane : H

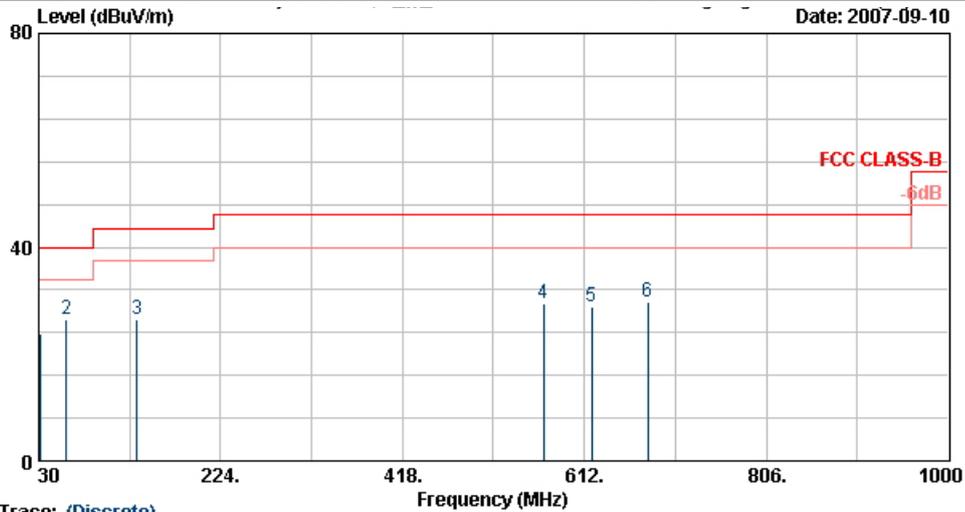
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2354.0	53.07	-20.93	74.00	54.54	30.24	3.71	35.42	100	0	Peak
2	2354.0	42.21	-11.79	54.00	43.68	30.24	3.71	35.42	100	8	Average
3 @	2437.0	97.87			99.25	30.28	3.82	35.47	100	8	Average
4 X	2437.0	106.99			108.39	30.28	3.82	35.49	100	0	Peak
5	2500.0	53.95	-20.05	74.00	55.30	30.28	3.90	35.53	100	0	Peak
6	2500.0	42.12	-11.88	54.00	43.47	30.30	3.88	35.53	100	8	Average
7	8196.0	56.93	-17.07	74.00	45.42	39.45	8.02	35.96	100	0	Peak
8	8196.0	44.35	-9.65	54.00	32.84	39.45	8.02	35.96	100	163	Average

Remark: #3 and #4 Fundamental Signal



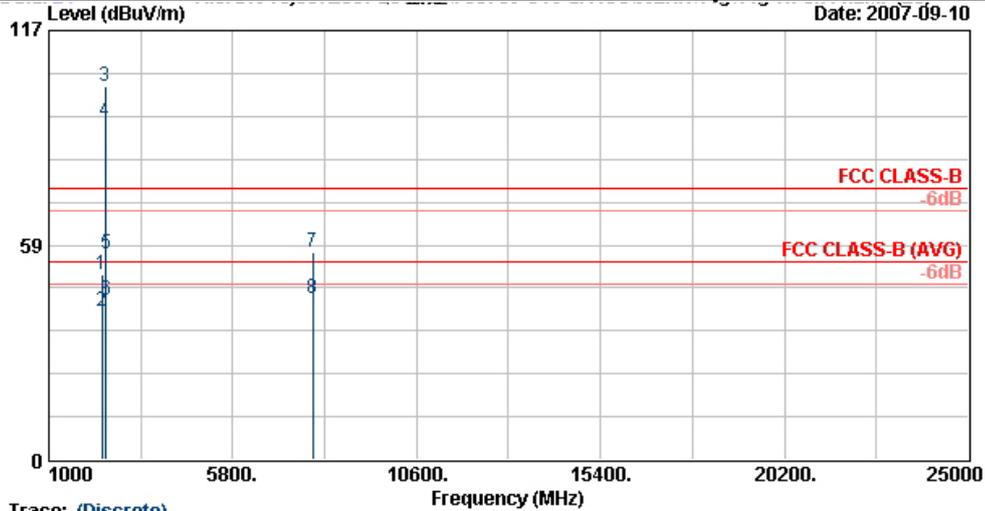
- Test Mode : Mode 6
- Polarization : Horizontal

The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LP-ANT(951121) HORIZONTAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 11g_Tx_Ch11_2462MHz +Earphone+Adaptor
 Data Rate : 12
 Plane : H

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.1	23.68	-16.32	40.00	35.51	18.95	0.64	31.43	---	---	Peak
2 @	59.4	26.49	-13.51	40.00	50.11	6.77	0.85	31.23	100	157	Peak
3	134.5	26.55	-16.95	43.50	45.31	11.05	1.26	31.07	---	---	Peak
4	568.8	29.33	-16.67	46.00	39.05	18.14	2.85	30.70	---	---	Peak
5	619.9	28.95	-17.05	46.00	38.04	18.55	3.02	30.66	---	---	Peak
6	679.4	29.77	-16.23	46.00	38.39	18.80	3.19	30.61	---	---	Peak



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : SHF-EHF HORN HORIZONTAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 11g Tx_Ch11;2462MHz +Earphone+Adaptor
 Data Rate : 12
 Plane : H

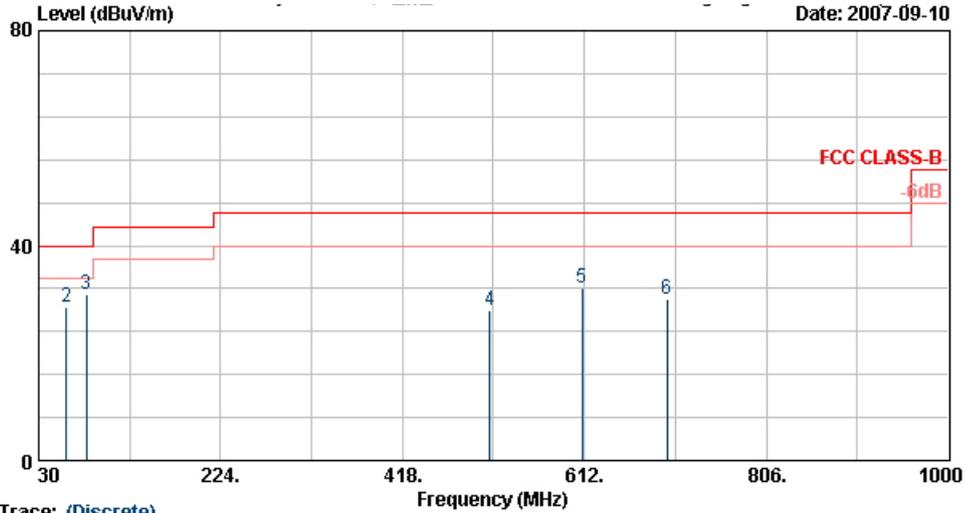
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2378.0	50.63	-23.37	74.00	52.06	30.25	3.75	35.44	100	0	Peak
2	2378.0	40.33	-13.67	54.00	41.77	30.25	3.75	35.44	100	146	Average
3 @	2462.0	101.76			103.13	30.29	3.84	35.49	100	0	Peak
4 @	2462.0	92.29			93.66	30.29	3.84	35.49	100	146	Average
5	2483.5	56.26	-17.74	74.00	57.62	30.29	3.86	35.51	100	0	Peak
6 @	2483.5	43.34	-10.66	54.00	44.70	30.29	3.86	35.51	100	146	Average
7	7896.0	56.74	-17.26	74.00	45.41	39.46	7.76	35.89	100	0	Peak
8 @	7896.0	43.89	-10.11	54.00	32.57	39.46	7.76	35.89	100	142	Average

Remark: #3 and #4 Fundamental Signal



- Polarization : Vertical

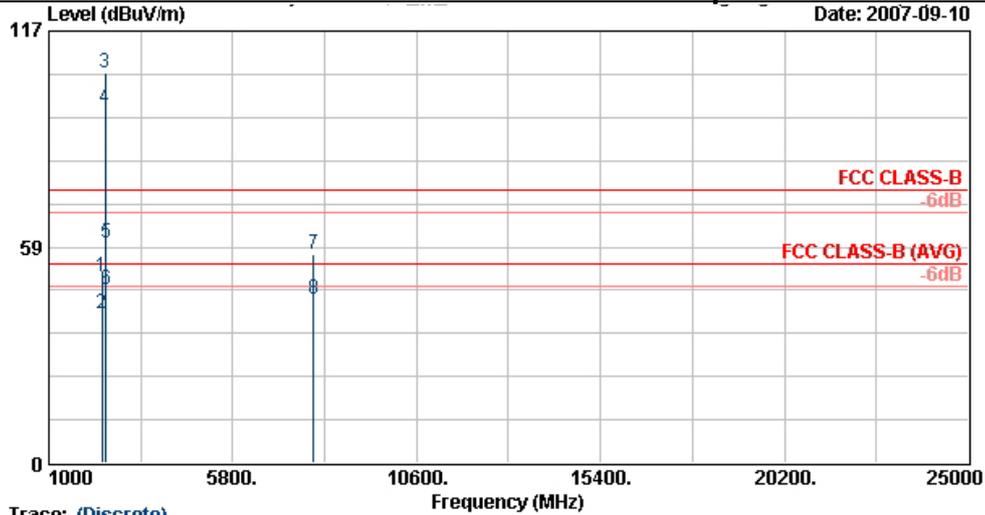
The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 08CH06-HY
 Condition : LF-ANT(951121) VERTICAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 11g Tx_Ck11;2462MHz +Esophone+Adaptor
 Data Rate : 12
 Plane : H

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.5	24.17	-15.83	40.00	36.00	18.95	0.64	31.43	---	---	Peak
2 @	59.4	28.50	-11.50	40.00	52.11	6.77	0.85	31.23	---	---	Peak
3 @	81.0	31.03	-8.97	40.00	53.47	7.67	0.98	31.09	100	243	Peak
4	511.4	27.89	-18.11	46.00	38.48	17.54	2.65	30.78	---	---	Peak
5	609.4	32.17	-13.83	46.00	41.33	18.51	2.99	30.66	---	---	Peak
6	700.4	30.01	-15.99	46.00	38.46	18.89	3.25	30.59	---	---	Peak



Trace: (Discrete)

Site : 08CH06-HY
 Condition : SHF-EHF HORN VERTICAL
 EUT : UMPC (GSM/GPRS/EDGE 900/1800)UMTS/HSDPA
 Power : 120Vac/60Hz
 Model : FR 780709-01
 Memo : 11g Tx_Ch11;2462MHz +Esaphone+Adaptor
 Data Rate : 12
 Plane : H

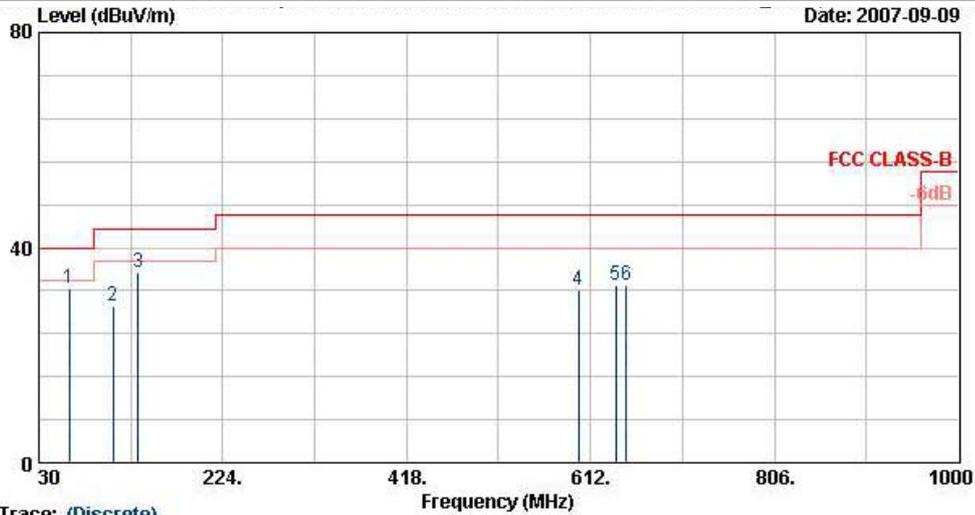
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2388.0	50.44	-23.56	74.00	51.87	30.26	3.75	35.44	100	0	Peak
2	2388.0	40.42	-13.58	54.00	41.85	30.26	3.75	35.44	100	20	Average
3 @	2462.0	105.80			107.17	30.29	3.84	35.49	100	0	Peak
4 @	2462.0	96.19			97.56	30.29	3.84	35.49	100	20	Average
5	2483.5	59.38	-14.62	74.00	60.74	30.29	3.86	35.51	100	0	Peak
6 @	2483.5	46.91	-7.09	54.00	48.27	30.29	3.86	35.51	100	20	Average
7	7902.0	56.43	-17.57	74.00	45.10	39.46	7.76	35.88	100	0	Peak
8 @	7902.0	44.39	-9.61	54.00	33.05	39.46	7.76	35.88	100	206	Average

Remark: #3 and #4 Fundamental Signal



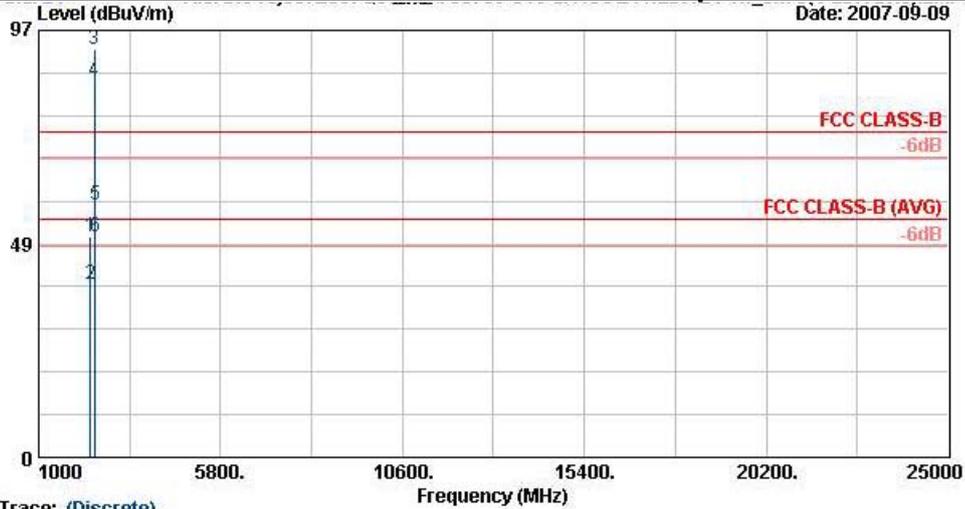
- Test Mode : Mode 9
- Polarization : Horizontal

The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LP-ANT(951121) HORIZONTAL
 EUT : UMPC(GSM/GPRS/EDGE,UMTS/HSDPA)
 Power : 120V_{ac}/60Hz
 Model : FR780709-01
 Memo : BT Tx_Ch78,2480MHz+Earphone+Adaptor
 Data Rate : DH5
 EDR : 1
 Plane : E2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	62.1	32.40	-7.60	40.00	56.06	6.67	0.87	31.20	100	193 Peak
2	108.0	29.20	-14.30	43.50	47.55	11.60	1.10	31.06	---	---
3	134.5	35.40	-8.10	43.50	54.16	11.05	1.26	31.07	---	---
4	598.9	32.17	-13.83	46.00	41.43	18.45	2.95	30.66	---	---
5	638.8	32.93	-13.07	46.00	41.88	18.63	3.07	30.65	---	---
6	649.3	32.90	-13.10	46.00	41.78	18.67	3.10	30.65	---	---



Trace: (Discrete)

Site : 03CH06-HY
 Condition : SHF-EHF HORN HORIZONTAL
 EUT : UMPC(GSM/GPRS/EDGE,UMTS/HSDPA)
 Power : 120Vac/60Hz
 Model : FR780709-01
 Memo : BT Tx_Ck78,2480MHz+Earphone+Adaptor
 Data Rate : DHS
 EDR : 1
 Plane : E2

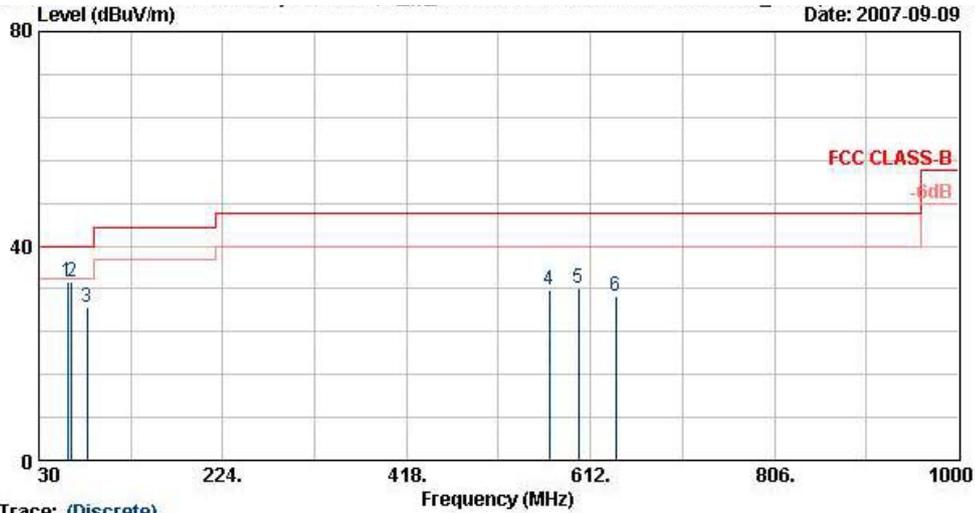
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2368.0	49.98	-24.02	74.00	50.78	30.24	4.40	35.44	100	0	Peak
2	2368.0	39.35	-14.65	54.00	40.14	30.24	4.40	35.44	100	75	Average
3 @	2480.0	92.69			93.42	30.29	4.49	35.51	100	0	Peak
4 @	2480.0	85.41			86.14	30.29	4.49	35.51	100	75	Average
5	2483.5	57.26	-16.74	74.00	57.99	30.29	4.49	35.51	100	0	Peak
6 @	2483.5	50.30	-3.70	54.00	51.03	30.29	4.49	35.51	100	75	Average

Remark: #3 and #4 Fundamental Signal



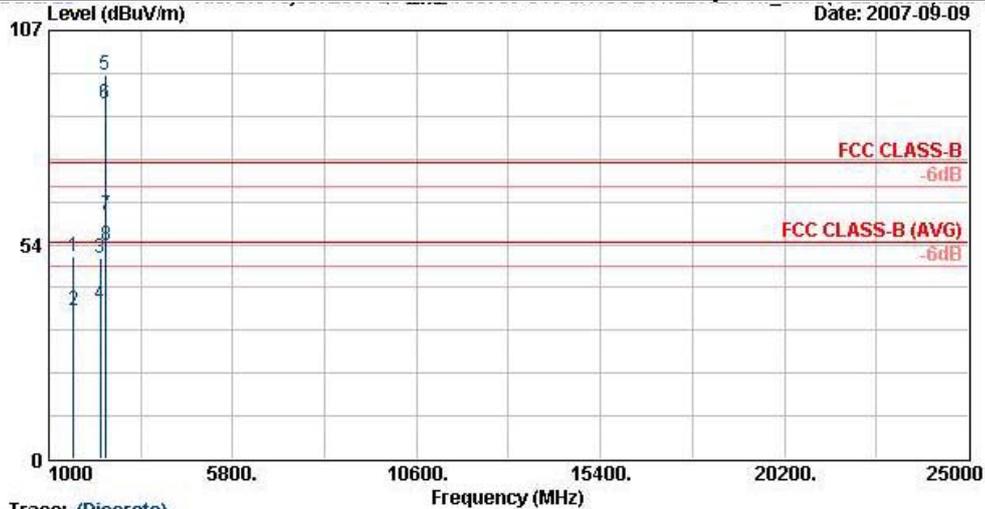
- Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LF-ANT(951121) VERTICAL
 EUT : UMPC(GSM/GPRS/EDGE,UMTS/HSDPA)
 Power : 120Vac/60Hz
 Model : FR780709-01
 Memo : BT Tx_Ch78_2480MHz+Earphone+Adaptor
 Data Rate : DH5
 EDR : 1
 Plane : E2

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	60.8	33.38	-6.62	40.00	57.10	6.65	0.87	31.23	100	266	Peak
2 @	64.8	33.31	-6.69	40.00	56.79	6.76	0.89	31.12	---	---	Peak
3	81.0	28.47	-11.53	40.00	50.92	7.67	0.98	31.09	---	---	Peak
4	568.8	31.81	-14.19	46.00	41.53	18.14	2.85	30.70	---	---	Peak
5	598.9	32.07	-13.93	46.00	41.32	18.45	2.95	30.66	---	---	Peak
6	638.8	30.67	-15.33	46.00	39.61	18.63	3.07	30.65	---	---	Peak



Trace: (Discrete)

Site : 08CH06-HY
 Condition : SHF-EHF HORN VERTICAL
 EUT : UMPFC(GSM/GPRS/EDGE/UMTS/HSDPA)
 Power : 120Vac/60Hz
 Model : FR780709-01
 Memo : BT Tx_Ck78_2480MHz+Earphone+Adaptor
 Data Rate : DH5
 HDR : 1
 Plane : E2

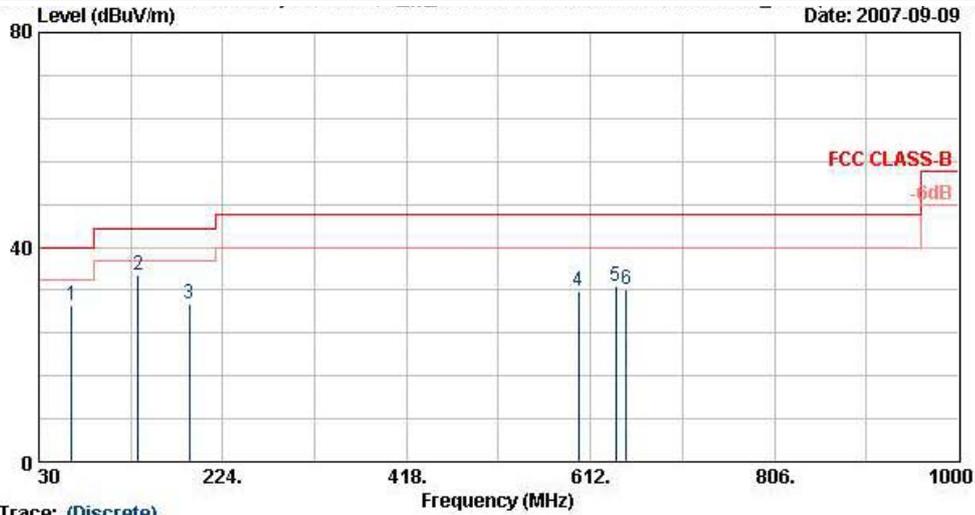
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1638.0	50.46	-23.54	74.00	55.19	27.30	3.53	35.56	100	360	Peak
2	1638.0	36.85	-17.15	54.00	41.58	27.30	3.53	35.56	100	7	Average
3	2348.0	50.14	-23.86	74.00	50.94	30.24	4.38	35.42	100	360	Peak
4	2348.0	38.76	-15.24	54.00	39.56	30.24	4.38	35.42	100	282	Average
5 @	2480.0	95.90			96.63	30.29	4.49	35.51	100	360	Peak
6 @	2480.0	88.86			89.59	30.29	4.49	35.51	100	282	Average
7	2483.5	61.04	-12.96	74.00	61.77	30.29	4.49	35.51	100	360	Peak
8 @	2483.5	53.49	-0.51	54.00	54.22	30.29	4.49	35.51	100	282	Average

Remark: #5 and #6 Fundamental Signal



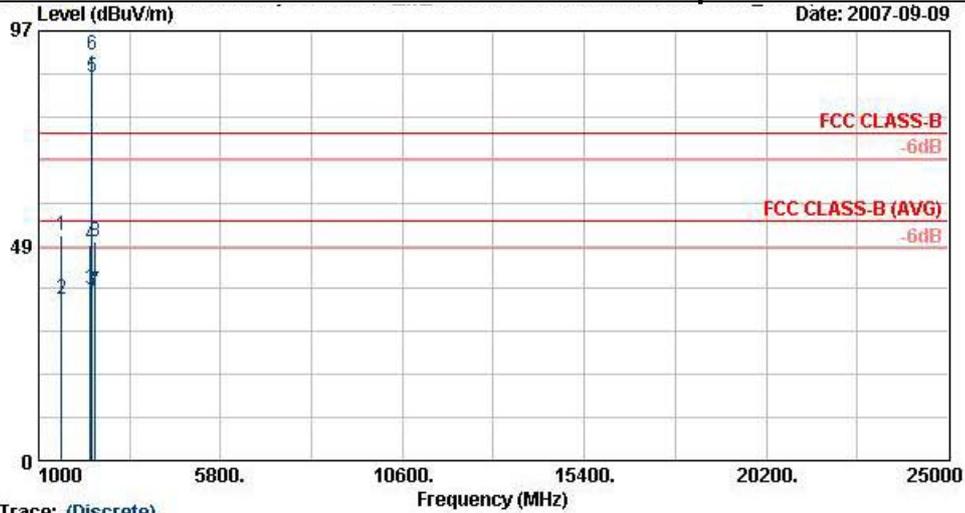
- Test Mode : Mode 10
- Polarization : Horizontal

The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LP-ANT(951121) HORIZONTAL
 EUT : UMPC(GSM/GPRS/EDGE,UMTS/HSDPA)
 Power : 120V_{ac}/60Hz
 Model : FR780709-01
 Memo : BT Tx_Chi00,2402MHz+Earphone+Adaptor
 Data Rate : DH5
 EDR : 2
 Plane : E2

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	64.8	29.29	-10.71	40.00	52.77	6.76	0.89	31.12	---	---	Peak
2 @	134.5	34.71	-8.79	43.50	53.47	11.05	1.26	31.07	100	151	Peak
3	188.5	29.34	-14.16	43.50	49.48	9.38	1.50	31.01	---	---	Peak
4	598.9	31.86	-14.14	46.00	41.12	18.45	2.95	30.66	---	---	Peak
5	638.8	32.82	-13.18	46.00	41.77	18.63	3.07	30.65	---	---	Peak
6	649.3	32.20	-13.80	46.00	41.08	18.67	3.10	30.65	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : SHF-EHF HORN HORIZONTAL
 EUT : UMPC(GSM/GPRS/EDGE,UMTS/HSDPA)
 Power : 120Vac/60Hz
 Model : FR780709-01
 Memo : BT Tx_Ch00,2402MHz+Earphone+Adaptor
 Data Rate : DHS
 EDR : 2
 Plane : E2

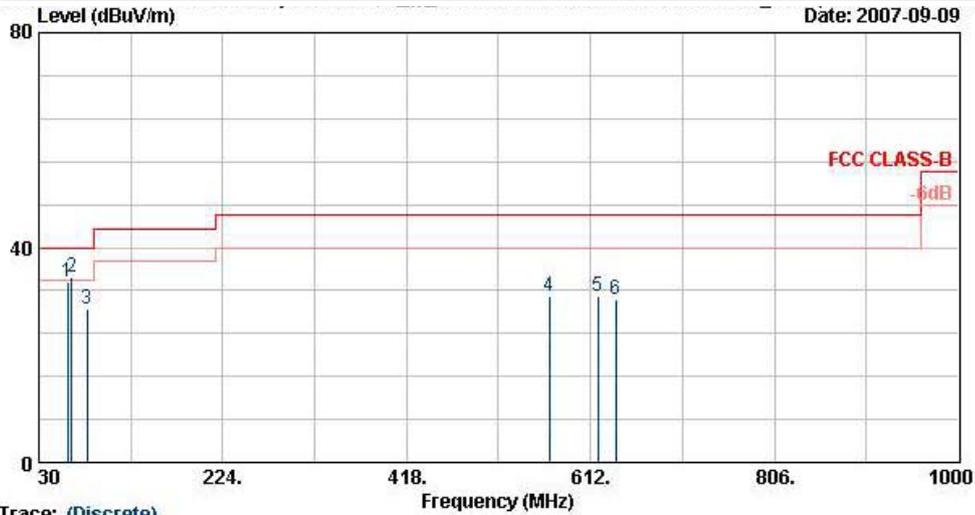
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1598.0	50.85	-23.15	74.00	56.11	26.90	3.46	35.62	100	0	Peak
2	1598.0	36.43	-17.57	54.00	41.69	26.90	3.46	35.62	100	251	Average
3	2365.9	38.42	-15.58	54.00	39.21	30.24	4.40	35.44	100	86	Average
4	2365.9	48.62	-25.38	74.00	49.41	30.24	4.40	35.44	100	0	Peak
5 @	2402.0	86.43			87.20	30.26	4.42	35.46	100	86	Average
6 @	2402.0	91.47			92.25	30.26	4.42	35.46	100	0	Peak
7	2484.0	38.12	-15.88	54.00	38.85	30.29	4.49	35.51	100	86	Average
8	2484.0	49.51	-24.49	74.00	50.24	30.29	4.49	35.51	100	0	Peak

Remark: #5 and #6 Fundamentals Signal



- Polarization : Vertical

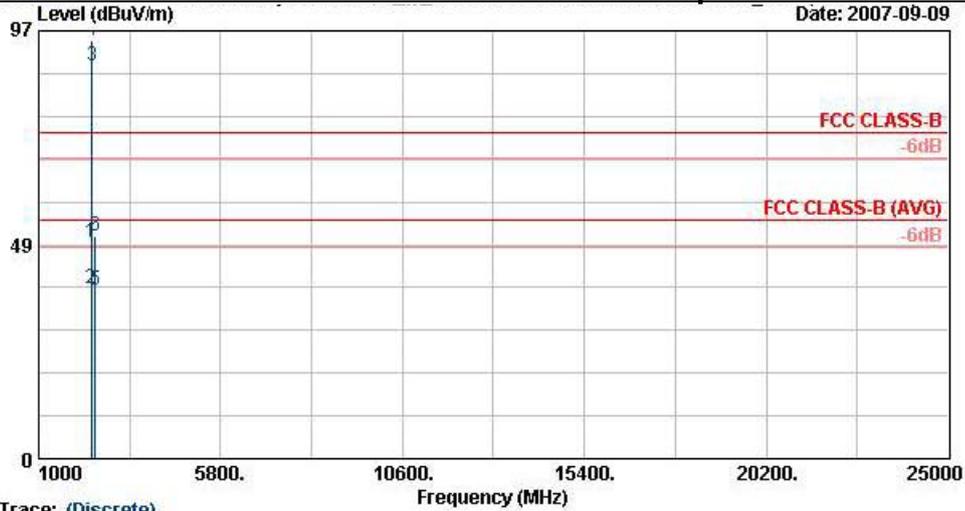
The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 09CH06-HY
 Condition : LP-ANT(951121) VERTICAL
 EUT : UMFPC(GSM/GPRS/EDGE,UMTS/HSDPA)
 Power : 120V_{ac}/60Hz
 Model : FR780709-01
 Memo : BT Tx_CM00,2402MHz+Earphone+Adaptor
 Data Rate : DHS
 EDR : 2
 Plane : E2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	60.8	33.62	-6.38	40.00	57.34	6.65	0.87	31.23	---	---	Peak
2 @	64.8	34.44	-5.56	40.00	57.92	6.76	0.89	31.12	100	243	Peak
3	81.0	28.52	-11.48	40.00	50.97	7.67	0.98	31.09	---	---	Peak
4	568.8	30.92	-15.08	46.00	40.64	18.14	2.85	30.70	---	---	Peak
5	619.9	30.84	-15.16	46.00	39.93	18.55	3.02	30.66	---	---	Peak
6	638.8	30.27	-15.73	46.00	39.21	18.63	3.07	30.65	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : SHF-EHF HORN VERTICAL
 EUT : UMPC(GSM/GPRS/EDGE,UMTS/HSDPA)
 Power : 120Vac/60Hz
 Model : FR780709-01
 Memo : BT Tx_Clk00,2402MHz+Earphone+Adaptor
 Data Rate : DHS
 EDR : 2
 Plane : E2

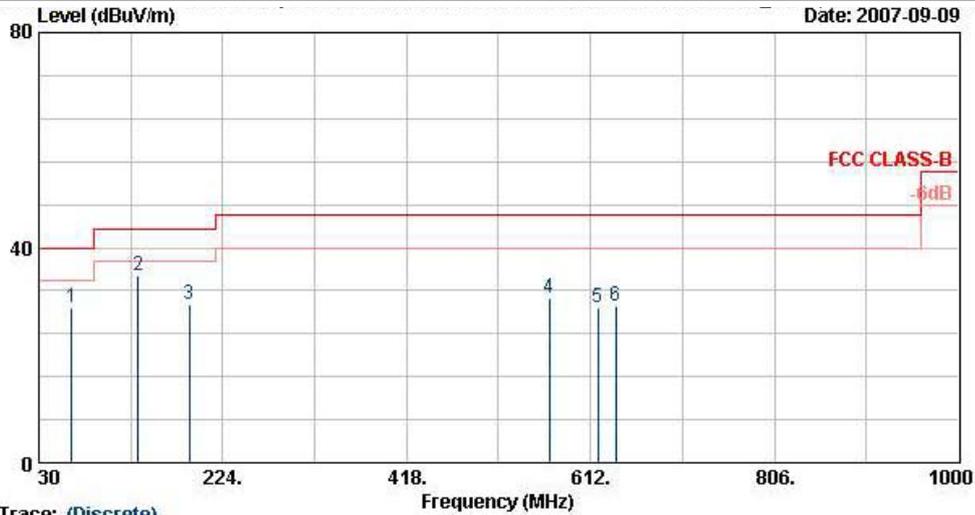
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2382.6	49.05	-24.95	74.00	49.83	30.25	4.40	35.44	100	360	Peak
2	2382.6	38.74	-15.26	54.00	39.52	30.25	4.40	35.44	100	286	Average
3 @	2402.0	88.95			89.72	30.26	4.42	35.46	100	360	Peak
4 @	2402.0	94.96			95.73	30.26	4.42	35.46	100	286	Average
5	2494.0	38.29	-15.71	54.00	39.01	30.30	4.51	35.53	100	286	Average
6	2494.0	50.38	-23.62	74.00	51.10	30.30	4.51	35.53	100	360	Peak

Remark: #3 and #4 Fundamental Signal



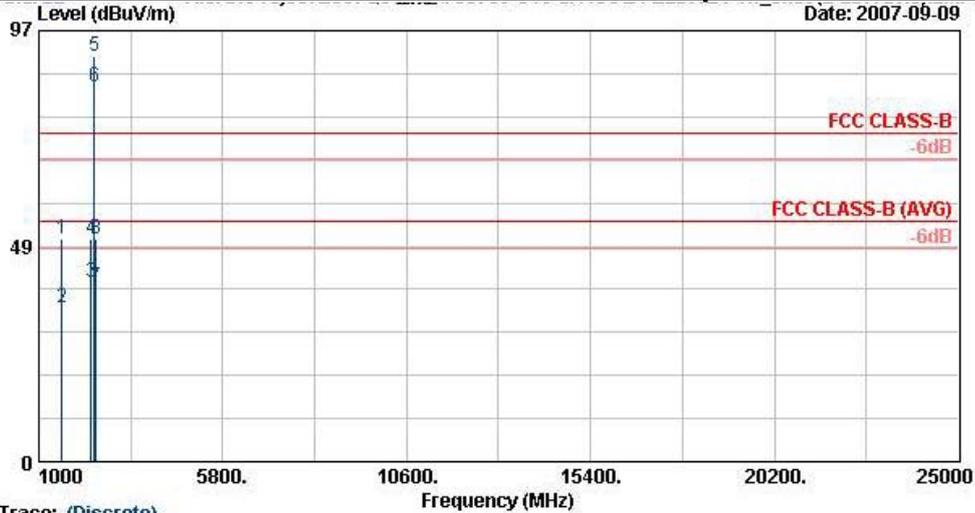
- Test Mode : Mode 11
- Polarization : Horizontal

The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LP-ANT(951121) HORIZONTAL
 EUT : UMPC(GSM/GPRS/EDGE,UMTS/HSDPA)
 Power : 120V_{ac}/60Hz
 Model : FR780709-01
 Memo : BT Tx_C139,2441MHz+Earphone+Adaptor
 Data Rate : DH5
 EDR : 2
 Plane : E2

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBUV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	64.8	28.77	-11.23	40.00	52.24	6.76	0.89	31.12	---	---	Peak
2 @	134.5	34.76	-8.74	43.50	53.51	11.05	1.26	31.07	100	120	Peak
3	188.5	29.42	-14.08	43.50	49.55	9.38	1.50	31.01	---	---	Peak
4	568.8	30.56	-15.44	46.00	40.28	18.14	2.85	30.70	---	---	Peak
5	619.9	28.80	-17.20	46.00	37.89	18.55	3.02	30.66	---	---	Peak
6	638.8	29.04	-16.96	46.00	37.99	18.63	3.07	30.65	---	---	Peak



Trace: (Discrete)
 Site : 08CHO6-HY
 Condition : SHF-EHF HORN HORIZONTAL
 EUT : UMPFC(GSM/GPRS/EDGE/UMTS/HSDPA)
 Power : 120Vac/60Hz
 Model : FR780709-01
 Memo : BT Tx_C139,2441MHz+Earphone+Adaptor
 Data Rate : DH5
 EDR : 2
 Plane : E2

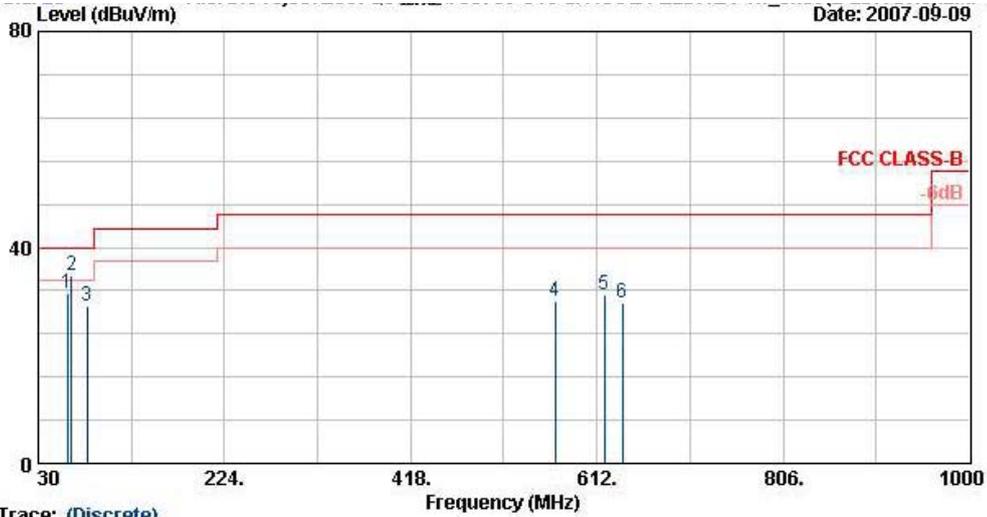
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1600.0	49.95	-24.05	74.00	55.14	26.90	3.50	35.59	100	0	Peak
2	1600.0	34.79	-19.21	54.00	39.98	26.90	3.50	35.59	100	253	Average
3	2374.0	40.30	-13.70	54.00	41.08	30.25	4.40	35.44	100	85	Average
4	2374.0	50.02	-23.98	74.00	50.80	30.25	4.40	35.44	100	0	Peak
5 @	2441.0	91.31			92.06	30.28	4.45	35.47	100	0	Peak
6 @	2441.0	84.30			85.05	30.28	4.47	35.49	123	85	Average
7	2498.0	39.15	-14.85	54.00	39.87	30.30	4.51	35.53	100	85	Average
8	2498.0	49.96	-24.04	74.00	50.68	30.30	4.51	35.53	100	0	Peak

Remark: #5 and #6 Fundamental Signal



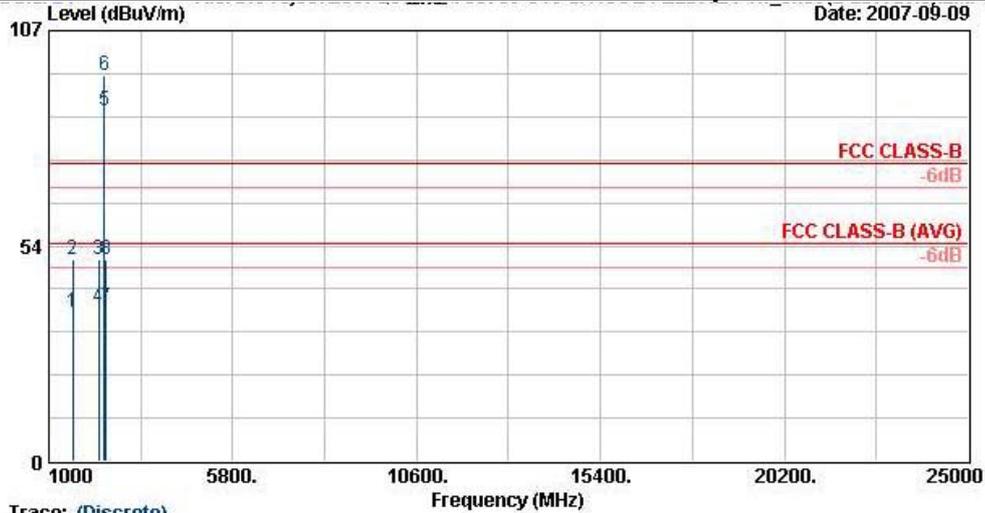
- Polarization : Vertical

■ The test that passed at minimum margin is marked by the frame in the following table.



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LF-ANT(951121) VERTICAL
 EUT : UMPFC(GSM/GPRS/EDGE,UMTS/HSDPA)
 Power : 120W_{iso}/50Hz
 Model : FR780709-01
 Memo : BT Tx_C(39,2441MHz)+Esophone+Adaptor
 Data Rate : DHS
 EDR : 2
 Plane : E2

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	60.8	31.46	-8.54	40.00	55.18	6.65	0.87	31.23	---	---	Peak
2 @	64.8	34.86	-5.14	40.00	58.33	6.76	0.89	31.12	100	239	Peak
3	81.0	29.06	-10.94	40.00	51.50	7.67	0.98	31.09	---	---	Peak
4	568.8	30.04	-15.96	46.00	39.76	18.14	2.85	30.70	---	---	Peak
5	619.9	31.17	-14.83	46.00	40.26	18.55	3.02	30.66	---	---	Peak
6	638.8	29.83	-16.17	46.00	38.78	18.63	3.07	30.65	---	---	Peak



Trace: (Discrete)

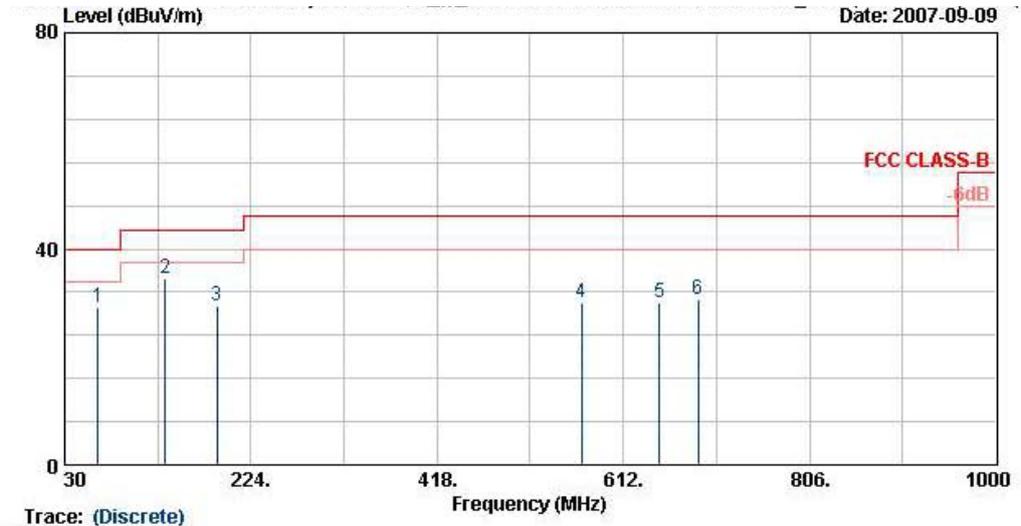
Site : 08CH06-HY
 Condition : SHF-EHF HORN VERTICAL
 EUT : UMPFC(GSM/GPRS/EDGE/UMTS/HSDPA)
 Power : 120Vac/60Hz
 Model : FR780709-01
 Memo : BT Tx_C139,2441MHz+Earphone+Adaptor
 Data Rate : DHS
 EDR : 2
 Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1634.0	37.05	-16.95	54.00	41.91	27.17	3.53	35.56	100	55	Average
2	1634.0	50.20	-23.80	74.00	55.06	27.17	3.53	35.56	100	360	Peak
3	2310.0	50.25	-23.75	74.00	51.07	30.22	4.34	35.39	100	360	Peak
4	2310.0	38.13	-15.87	54.00	38.95	30.22	4.34	35.39	100	286	Average
5 @	2441.0	87.07			87.82	30.28	4.47	35.49	100	286	Average
6 @	2441.0	95.71			96.45	30.28	4.47	35.49	100	360	Peak
7	2484.0	38.19	-15.81	54.00	38.92	30.29	4.49	35.51	100	286	Average
8	2484.0	50.18	-23.82	74.00	50.91	30.29	4.49	35.51	100	360	Peak

Remark: #5 and #6 Fundamental Signal



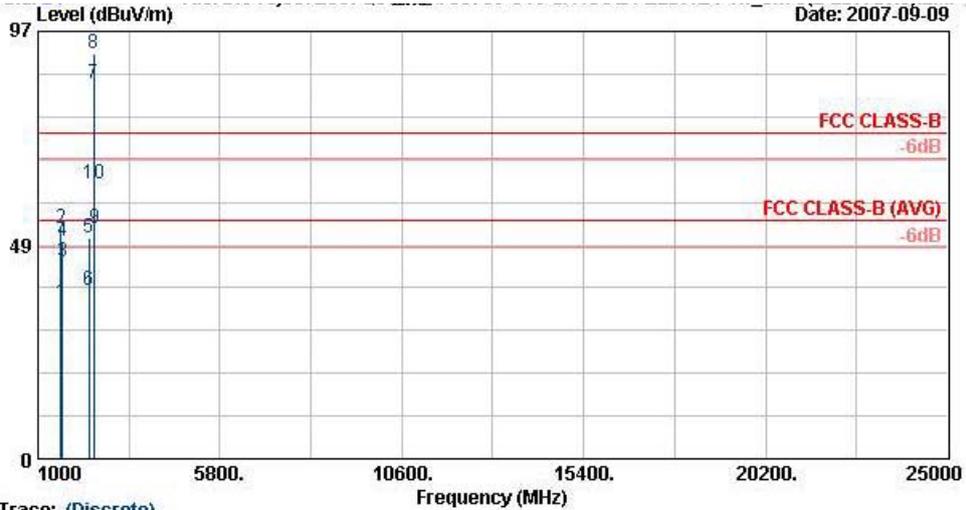
- Test Mode : Mode 12
- Polarization : Horizontal



Site : 08CH06-HY
 Condition : LF-ANT951121) HORIZONTAL
 EUT : UMPC(GSM/GPRS/EDGE,UMTS/HSDPA)
 Power : 120V_{ac}/60Hz
 Model : FR780709-01
 Memo : BT Tx_Ch78,2480MHz+Earphone+Adaptor
 Data Rate : DHS
 EDR : 2
 Plane : E2

Trace: (Discrete)

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	64.8	29.06	-10.94	40.00	52.53	6.76	0.89	31.12	---	---	Peak
2 @	134.5	34.39	-9.11	43.50	53.14	11.05	1.26	31.07	100	140	Peak
3	188.5	29.34	-14.16	43.50	49.47	9.38	1.50	31.01	---	---	Peak
4	568.8	30.17	-15.83	46.00	39.89	18.14	2.85	30.70	---	---	Peak
5	649.3	30.08	-15.92	46.00	38.96	18.67	3.10	30.65	---	---	Peak
6	689.9	30.68	-15.32	46.00	39.22	18.85	3.22	30.60	---	---	Peak



Trace: (Discrete)

Site : 08CH06-HY
 Condition : SHF-EHF HORN HORIZONTAL
 EUT : UMPC(GSM/GPRS/EDGE/UMTS/HSDPA)
 Power : 120Wac/60Hz
 Model : FR780709-01
 Memo : BT Tx_C178,2480MHz+Earphone+Adaptor
 Data Rate : DHS
 EDR : 2
 Plane : E2

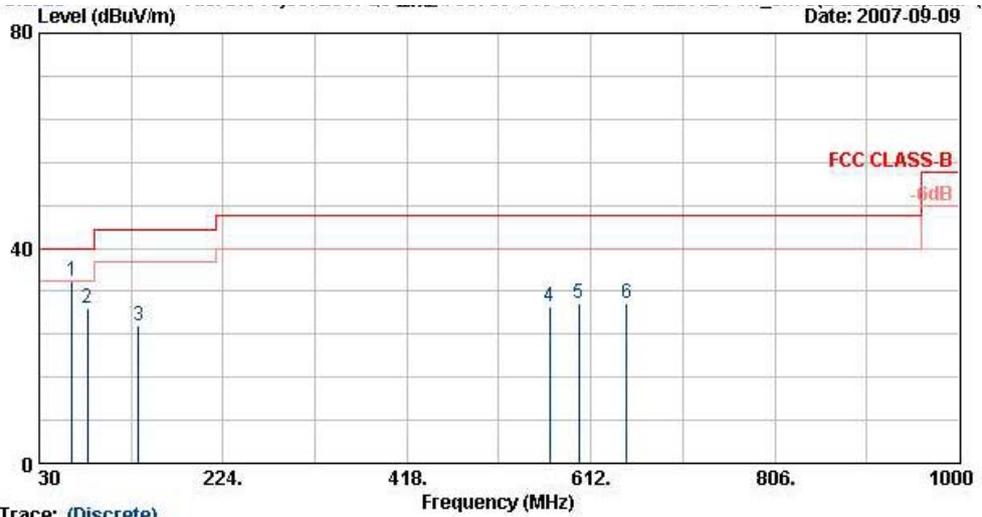
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	1598.0	35.44	-18.56	54.00	40.70	26.90	3.46	35.62	100	249 Average
2	1598.0	52.21	-21.79	74.00	57.47	26.90	3.46	35.62	100	0 Peak
3	1654.0	44.81	-9.19	54.00	49.47	27.30	3.57	35.53	100	111 Average
4	1654.0	49.55	-24.45	74.00	54.21	27.30	3.57	35.53	100	0 Peak
5	2348.0	50.04	-23.96	74.00	50.84	30.24	4.38	35.42	100	0 Peak
6	2348.0	38.24	-15.76	54.00	39.06	30.22	4.34	35.39	100	88 Average
7 @	2480.0	85.18			85.91	30.29	4.49	35.51	100	88 Average
8 @	2480.0	92.04			92.76	30.29	4.49	35.51	100	0 Peak
9 @	2483.5	52.16	-1.84	54.00	52.89	30.29	4.49	35.51	100	88 Average
10	2483.5	62.36	-11.64	74.00	63.09	30.29	4.49	35.51	100	0 Peak

Remark: #7 and #8 Fundamental Signal



- Polarization : Vertical

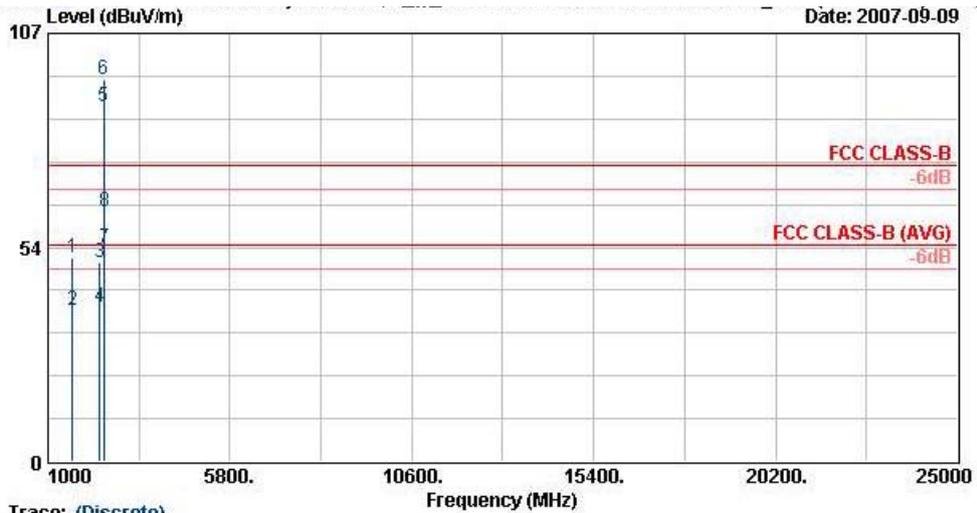
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 08CH06-HY
 Condition : LP-ANT(951121) VERTICAL
 EUT : UMPC(GSM/GPRS/EDGE,UMTS/HSDPA)
 Power : 120W_{ac}/60Hz
 Model : FR780709-01
 Memo : BT Tx_Ck.78,2480MHz+Earphone+Adaptor
 Data Rate : DHS
 EDR : 2
 Plane : E2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	64.8	33.99	-6.01	40.00	57.47	6.76	0.89	31.12	100	251 Peak
2	81.0	28.72	-11.28	40.00	51.16	7.67	0.98	31.09	---	Peak
3	134.5	25.67	-17.83	43.50	44.42	11.05	1.26	31.07	---	Peak
4	568.8	29.15	-16.85	46.00	38.87	18.14	2.85	30.70	---	Peak
5	598.9	29.86	-16.14	46.00	39.12	18.45	2.95	30.66	---	Peak
6	649.3	29.78	-16.22	46.00	38.66	18.67	3.10	30.65	---	Peak



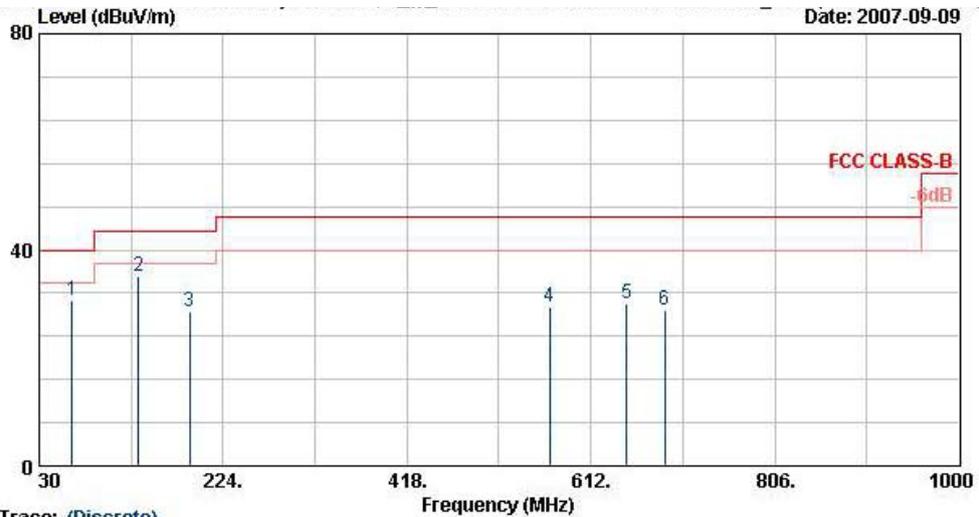
Trace: (Discrete)
 Site : 08CH06-HY
 Condition : SHF-EHF HORN VERTICAL
 EUT : UMPC(GSM/GPRS/EDGE/UMTS/HSDPA)
 Power : 120Vac/60Hz
 Model : FR780709-01
 Memo : BT Tx_C178,2480MHz+Earphone+Adaptor
 Data Rate : DHS
 EDR : 2
 Plane : E2

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1638.0	50.93	-23.07	74.00	55.66	27.30	3.53	35.56	100	360	Peak
2	1638.0	37.71	-16.29	54.00	42.44	27.30	3.53	35.56	100	56	Average
3	2370.2	49.71	-24.29	74.00	50.49	30.25	4.40	35.44	100	360	Peak
4	2370.2	38.39	-15.61	54.00	39.17	30.25	4.40	35.44	100	78	Average
5 @	2480.0	88.75			89.48	30.29	4.49	35.51	100	78	Average
6 @	2480.0	95.53			96.26	30.29	4.49	35.51	100	360	Peak
7 @	2483.5	53.20	-0.80	54.00	53.93	30.29	4.49	35.51	100	78	Average
8	2483.5	62.38	-11.62	74.00	63.11	30.29	4.49	35.51	100	360	Peak

Remark: #5 and #6 Fundamental Signal



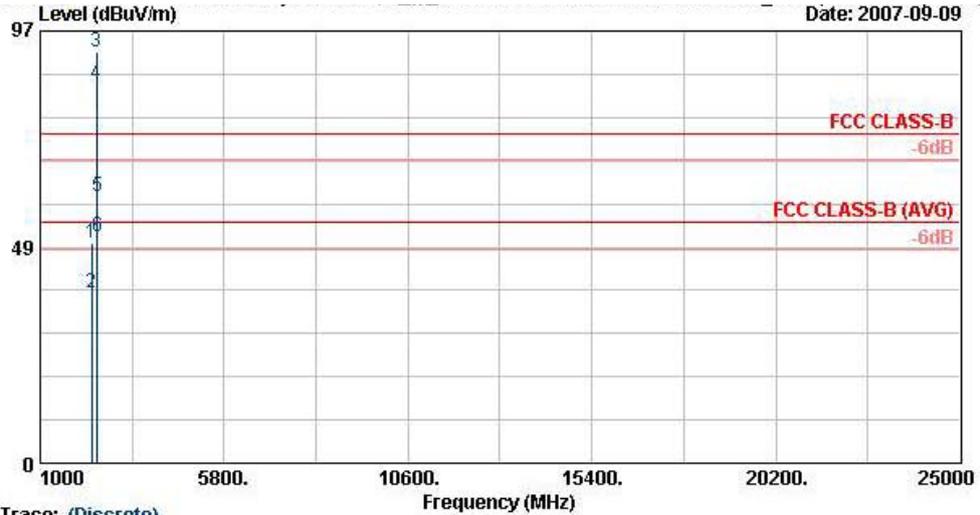
- Test Mode : Mode 15
- Polarization : Horizontal



Trace: (Discrete)

Site : 08CH06-HY
 Condition : LP-ANT(951121) HORIZONTAL
 EUT : PDA Phone
 Power : 120W_{ac}/60Hz
 Model : FR 780709
 Memo : BT Tx_Ck78_2480MHz +Adaptor
 Data Rate : DHS
 EDR : 3
 Plane : E2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	64.8	30.57	-9.43	40.00	54.04	6.76	0.89	31.12	---	---	Peak
2 @	134.5	34.96	-8.54	43.50	53.71	11.05	1.26	31.07	100	129	Peak
3	188.5	28.63	-14.87	43.50	48.77	9.38	1.50	31.01	---	---	Peak
4	568.8	29.45	-16.55	46.00	39.17	18.14	2.85	30.70	---	---	Peak
5	649.3	30.07	-15.93	46.00	38.95	18.67	3.10	30.65	---	---	Peak
6	689.9	28.91	-17.09	46.00	37.45	18.85	3.22	30.60	---	---	Peak



Trace: (Discrete)

Site : 08CH06-HY
 Condition : SHF-EHF HORN HORIZONTAL
 EUT : UMPC(GSM/GPRS/EDGE/UMTS/HSDPA)
 Power : 120W_{ac}/60Hz
 Model : FR780709-01
 Memo : BT Tx_Ck78_2480MHz+Earphone+Adaptor
 Data Rate : DHS
 EDR : 3
 Plane : E2

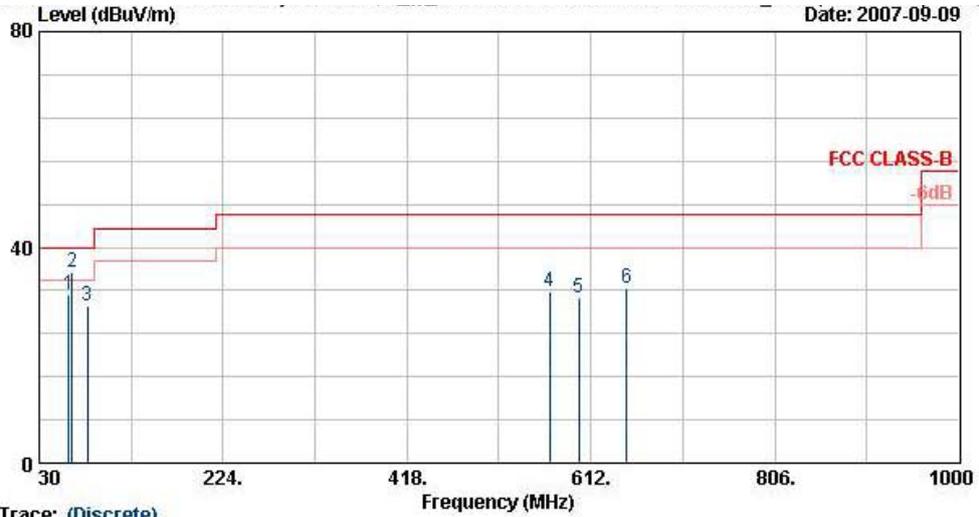
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2344.0	49.40	-24.60	74.00	50.20	30.24	4.38	35.42	100	0 Peak
2	2344.0	38.23	-15.77	54.00	39.03	30.24	4.38	35.42	191	75 Average
3 @	2480.0	92.17			92.89	30.29	4.49	35.51	100	0 Peak
4 @	2480.0	85.18			85.91	30.29	4.49	35.51	191	75 Average
5	2483.5	59.84	-14.16	74.00	60.57	30.29	4.49	35.51	100	0 Peak
6 @	2483.5	50.76	-3.24	54.00	51.49	30.29	4.49	35.51	191	75 Average

Remark: #3 and #4 Fundamental Signal



• Polarization : Vertical

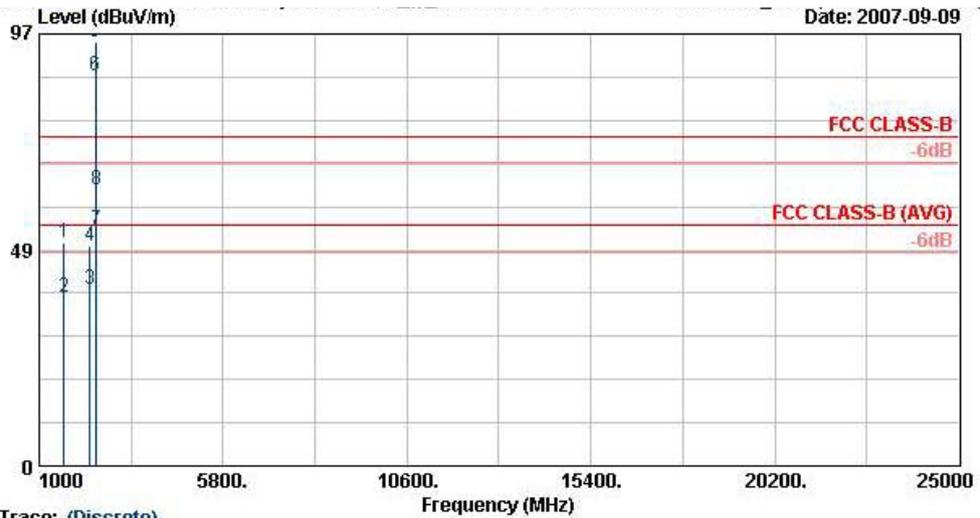
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LF-ANT(951121) VERTICAL
 EUT : PDA Phone
 Power : 120Wac/60Hz
 Model : FR 780709
 Memo : BT Tx_Ck.78.2480MHz +Adaptor
 Data Rate : DHS
 EDR : 3
 Plane : E2

Site
 Condition
 EUT
 Power
 Model
 Memo
 Data Rate
 EDR
 Plane

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	61.6	31.35	-8.65	40.00	55.00	6.67	0.87	31.20	---	Peak
2 @	64.8	35.38	-4.62	40.00	58.86	6.76	0.89	31.12	100	Peak
3	81.0	29.11	-10.89	40.00	51.55	7.67	0.98	31.09	---	Peak
4	568.8	31.81	-14.19	46.00	41.53	18.14	2.85	30.70	---	Peak
5	598.9	30.69	-15.31	46.00	39.95	18.45	2.95	30.66	---	Peak
6	649.3	32.45	-13.55	46.00	41.33	18.67	3.10	30.65	---	Peak



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : SHF-EHP HORN VERTICAL
 EUT : UMPFC(GSM/GPRS/EDGE,UMTS/HSDPA)
 Power : 120Wac/60Hz
 Model : FR780709-01
 Memo : BT Tx_Ck78,2480MHz+Earphone+Adaptor
 Data Rate : DHS
 EDR : 3
 Plane : E2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1638.0	50.11	-23.89	74.00	54.84	27.30	3.53	35.56	100	360 Peak
2	1638.0	37.89	-16.11	54.00	42.62	27.30	3.53	35.56	100	151 Average
3	2328.0	39.81	-14.19	54.00	40.61	30.24	4.38	35.42	100	286 Average
4	2328.0	49.55	-24.45	74.00	50.35	30.24	4.38	35.42	100	360 Peak
5 @	2480.0	95.10			95.83	30.29	4.49	35.51	100	360 Peak
6 @	2480.0	87.51			88.24	30.29	4.49	35.51	100	286 Average
7 @	2483.5	52.95	-1.05	54.00	53.68	30.29	4.49	35.51	100	286 Average
8	2483.5	62.04	-11.96	74.00	62.77	30.29	4.49	35.51	100	360 Peak

Remark: #5 and #6 Fundamental Signal



5.12 Antenna Requirements

5.12.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no other antenna except assembled by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

5.12.2 Antenna Connected Construction

The antennas used in this product are PIFA antenna for WLAN and BT without connector and it is considered to meet antenna requirement of FCC.

5.12.3 Antenna Gain

The antenna gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

**6. List of Measuring Equipments**

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100359	9kHz – 2.75GHz	Mar. 01, 2007	Feb. 29, 2008	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2007	Mar. 30, 2008	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2007	Mar. 21, 2008	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2007	Apr. 19, 2008	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz –30MHz	Mar. 09, 2007	Mar. 08, 2008	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	N/A	Conduction (CO04-HY)
Isolation Transformer	Erika Fiedler OHG	D-65396 Walluf	58	45MHz-2.15GHz	N/A	N/A	Conduction (CO04-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Oct. 05, 2006	Oct. 04, 2007	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 26, 200	Jul. 25, 2008	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Com-Power	AH118	071025	1G~18G	Jun. 04, 2007	Jun. 03, 2008	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Nov. 20, 2006	Nov. 19, 2008	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G - 26.5G	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Pre Amplifier	Mini Circuits	ZKL-2	D092004-1	10~2500MHz	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Base Station Simulator	R & S	CMU200	106656	WCDMA	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)



7. Uncertainty Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.10	Normal(k=2)	0.05
Cable loss	0.10	Normal(k=2)	0.05
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.39	Rectangular	0.80
Mismatch	+0.34/-0.35	U-shape	0.24
Combined standard uncertainty Uc(y)	1.13		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.26		

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.11	Normal(k=2)	0.06
Antenna factor calibration	0.91	Normal(k=2)	0.46
Cable loss calibration	0.12	Normal(k=2)	0.06
Pre Amplifier Gain calibration	0.15	Normal(k=2)	0.08
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.52	Rectangular	0.88
Mismatch	+0.45/-0.48	U-shaped	0.33
Combined standard uncertainty Uc(y)	1.30		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.60		



Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncertainty of x_i		$u(x_i)$	C_i	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20 \log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty $U_c(y)$	2.36				
Measuring uncertainty for a level of confidence of 95% $U = 2U_c(y)$	4.72				

The measured result is : y dBuV \pm U dB
 for a level of confidence of approximately 95% , ($k = 2$)