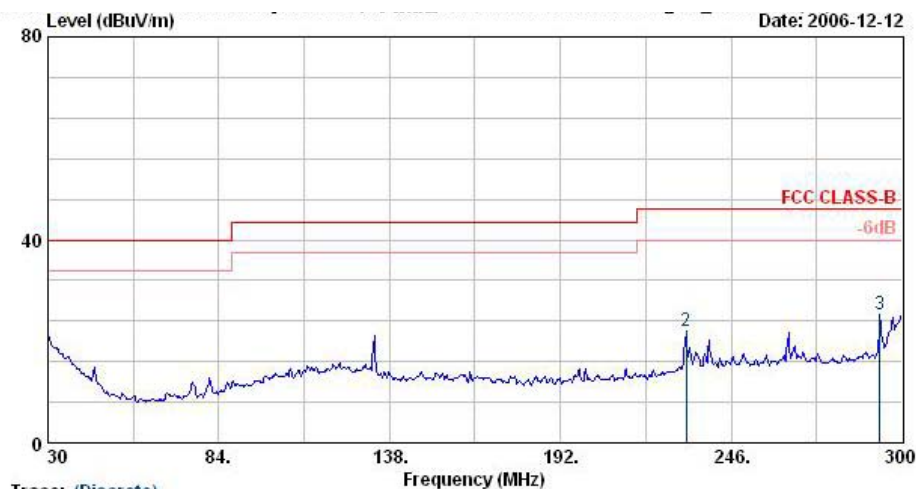




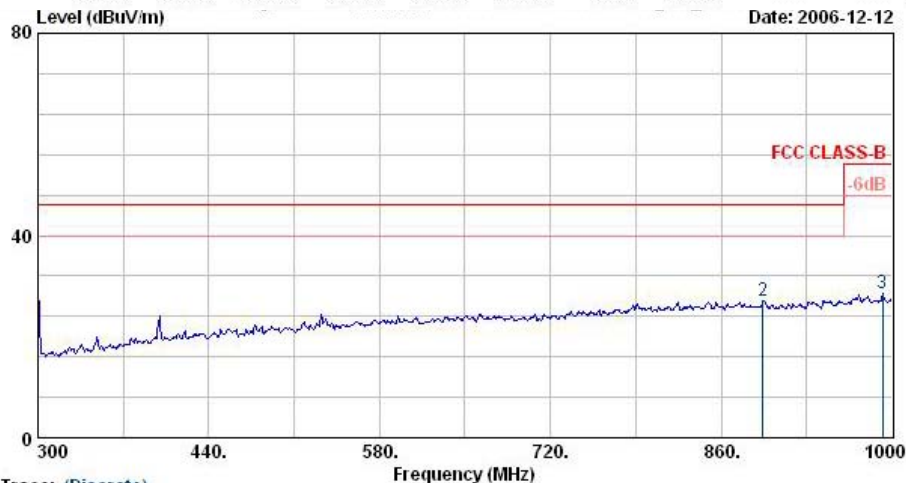
- Test Mode : Mode 6
- Polarization : Horizontal

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



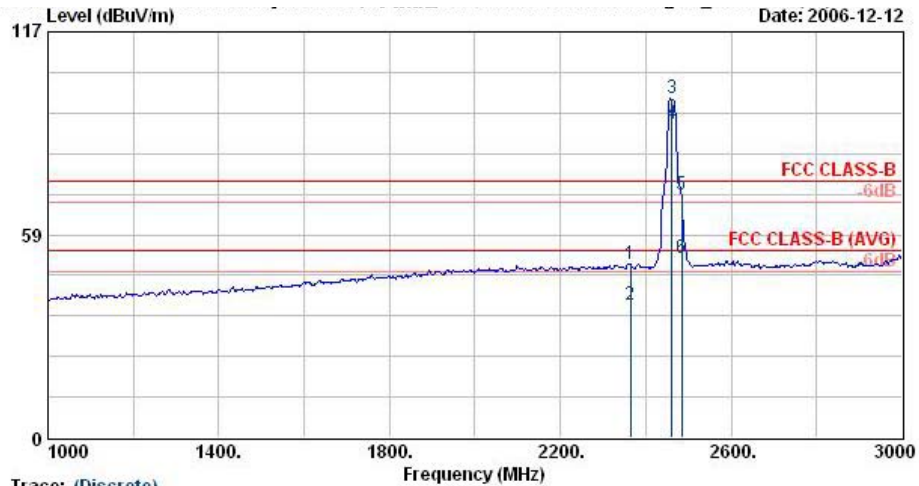
Trace: (Discrete)
Site : 03CH06-HY
Condition : LP-ANT(951121) HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11,2462MHz
Plane : E2
Data Rate : 54

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level 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	21.26	-18.74	40.00	32.22	19.66	0.84	31.46	---	---
2	231.7	22.03	-23.97	46.00	39.54	11.18	2.23	30.93	---	Peak
3	293.0	25.26	-20.74	46.00	40.52	13.08	2.61	30.95	---	Peak



Trace: (Discrete)
Site : 03CH06-HY
Condition : LP-ANT(951121) HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11,2462MHz
Plane : E2
Data Rate : 54

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	300.0	29.58	-16.42	46.00	44.67	13.21	2.63	30.93	100	255
2	894.3	27.10	-18.90	46.00	32.19	20.49	4.80	30.38	---	---
3	992.3	28.52	-25.48	54.00	32.50	21.18	5.11	30.27	---	---

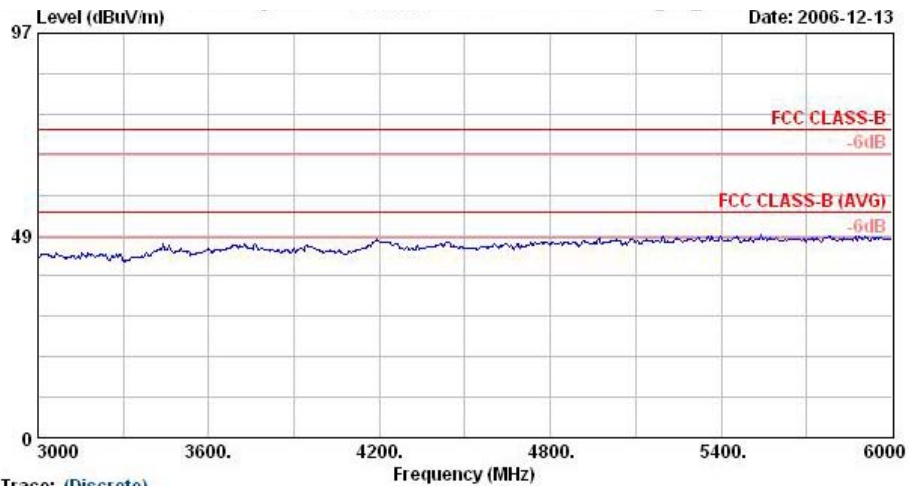


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11_2462MHz
Plane : E2
Data Rate : 54

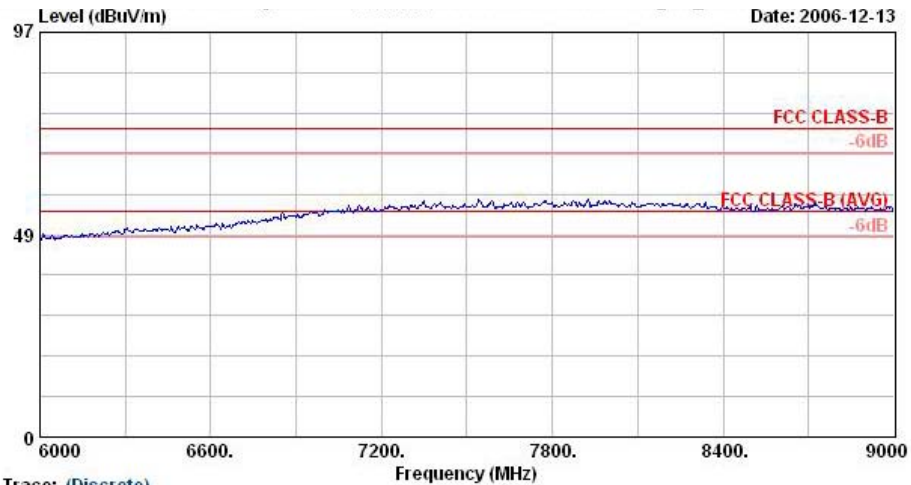
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2364.0	50.16	-23.84	74.00	51.60	30.24	3.73	35.42	100	0 Peak
2	2364.0	38.08	-15.92	54.00	39.53	30.24	3.73	35.42	117	65 Average
3 @	2462.0	97.70			99.07	30.29	3.84	35.49	100	0 Peak
4 @	2462.0	90.62			91.99	30.29	3.84	35.49	117	65 Average
5 !	2483.5	69.90	-4.10	74.00	71.26	30.29	3.86	35.51	100	0 Peak
6 @	2483.5	51.79	-2.21	54.00	53.15	30.29	3.86	35.51	117	65 Average

Remark: #3 and #4 Fundamental Signal

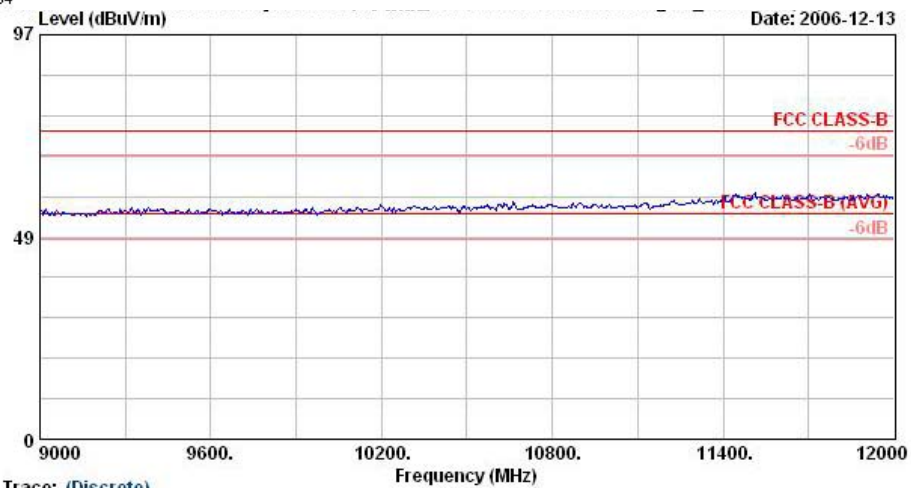


Trace: (Discrete)

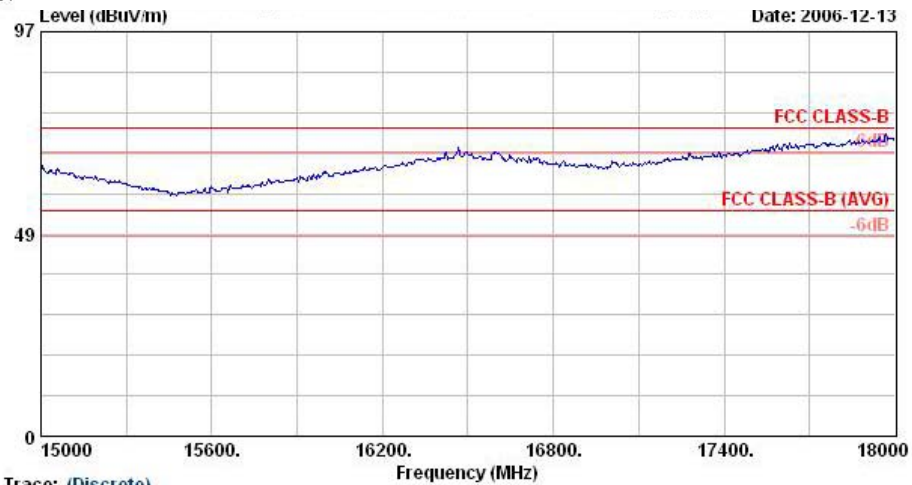
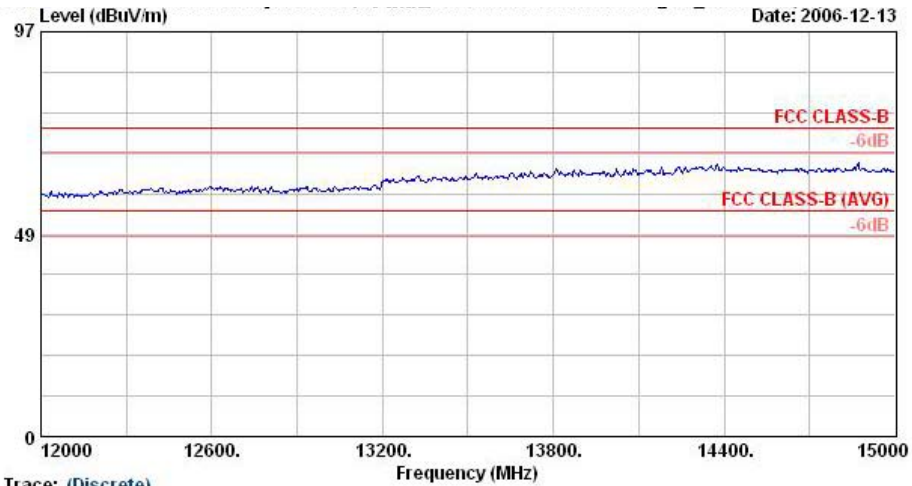
Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11_2462MHz
Plane : E2
Data Rate : 54



Trace: (Discrete)
Site : 08CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11_2462MHz
Plane : E2
Data Rate : 54



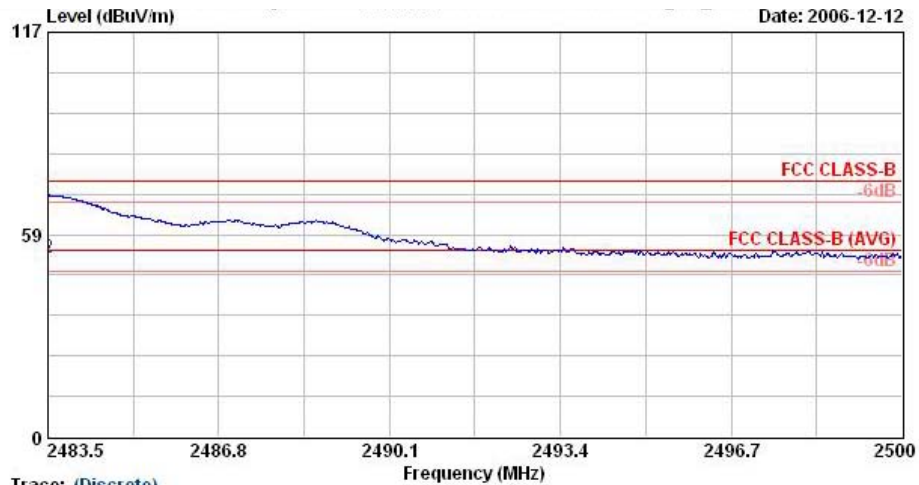
Trace: (Discrete)
Site : 08CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11_2462MHz
Plane : E2
Data Rate : 54





FCC TEST REPORT

Report No. : FR6N2811



Trace: (Discrete)

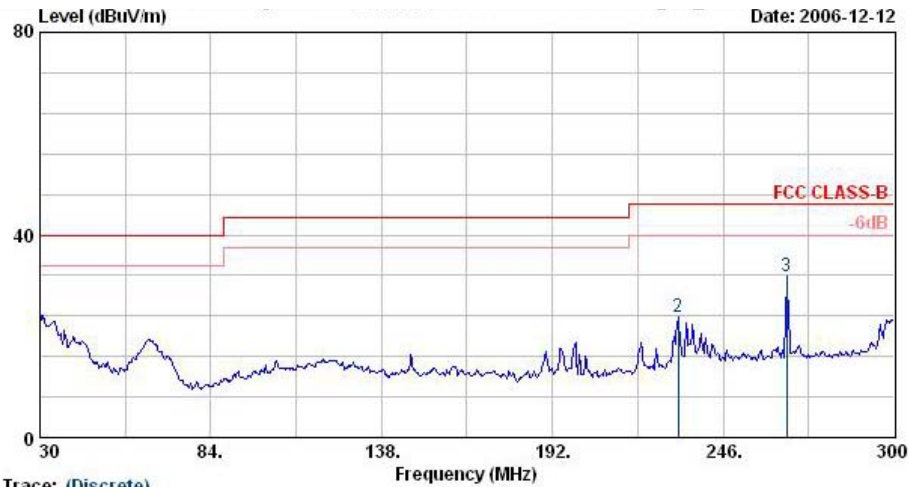
Site : 08CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11_2462MHz
Plane : E2
Data Rate : 54

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 !	2483.5	69.90	-4.10	74.00	71.26	30.29	3.86	35.51	100	0 Peak
2 @	2483.5	51.79	-2.21	54.00	53.15	30.29	3.86	35.51	117	65 Average



- Polarization : Vertical

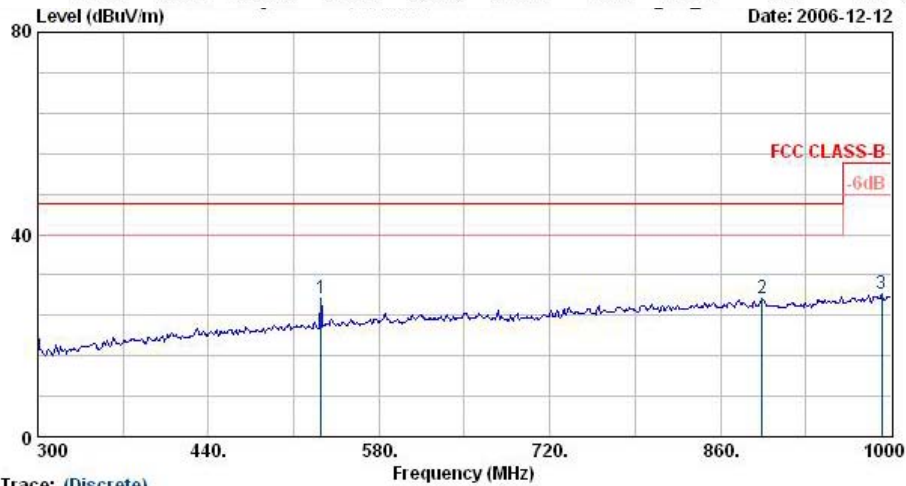
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-ANT(951121) VERTICAL
EUT : Mobile Phone
Power : 120V_{ac}/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11:2462MHz
Plane : E2
Data Rate : 54

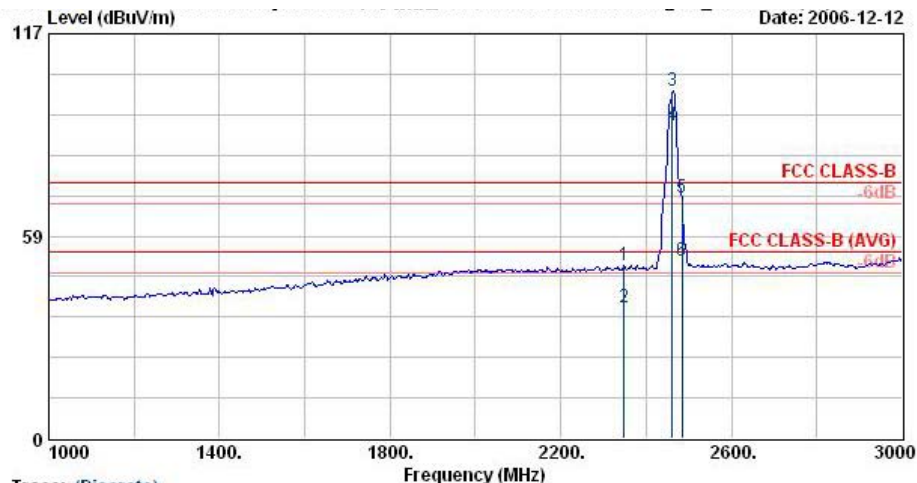
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.0	24.66	-15.34	40.00	35.62	19.66	0.84	31.46	---	---	Peak
2	231.7	23.93	-22.07	46.00	41.44	11.18	2.23	30.93	---	---	Peak
3	266.0	31.69	-14.31	46.00	47.57	12.56	2.50	30.96	100	256	Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-ANT(951121) VERTICAL
EUT : Mobile Phone
Power : 120V_{ac}/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11:2462MHz
Plane : E2
Data Rate : 54

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	532.4	27.35	-18.65	46.00	36.69	17.76	3.65	30.75	---	---
2	894.3	27.34	-18.66	46.00	32.43	20.49	4.80	30.38	---	---
3	992.3	28.12	-25.88	54.00	32.10	21.18	5.11	30.27	---	---

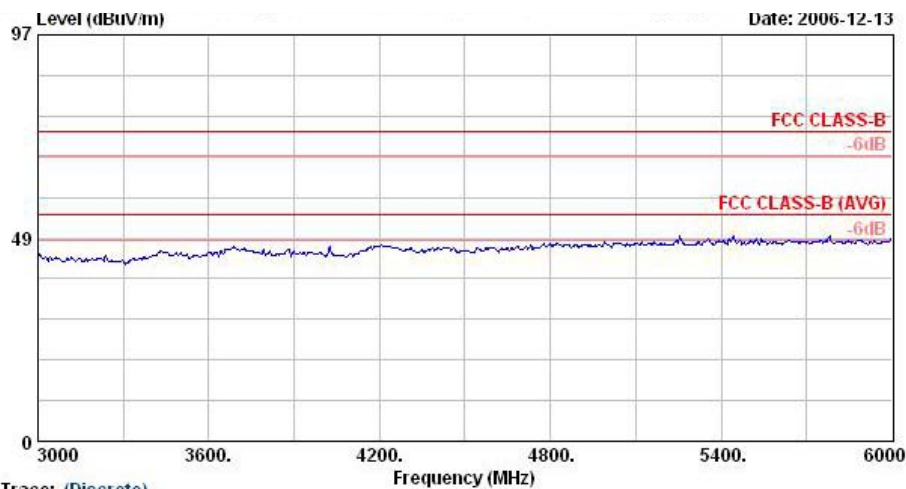


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11:2462MHz
Plane : E2
Data Rate : 54

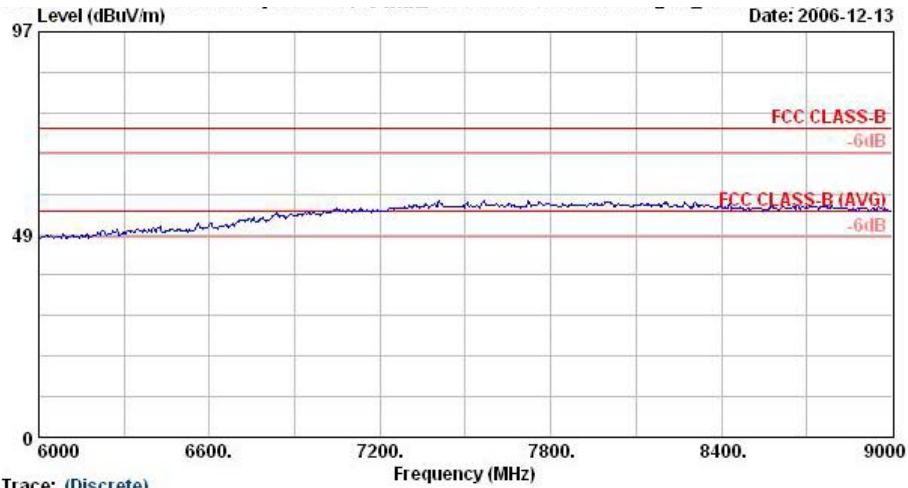
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2348.0	50.03	-23.97	74.00	51.51	30.24	3.71	35.42	100	0 Peak
2	2348.0	37.87	-16.13	54.00	39.35	30.24	3.71	35.42	100	90 Average
3 @	2462.0	100.40			101.77	30.29	3.84	35.49	100	0 Peak
4 @	2462.0	90.30			91.67	30.29	3.84	35.49	100	90 Average
5 !	2483.5	69.52	-4.48	74.00	70.88	30.29	3.86	35.51	100	0 Peak
6 @	2483.5	51.35	-2.65	54.00	52.71	30.29	3.86	35.51	100	90 Average

Remark: #3 and #4 Fundamental Signal

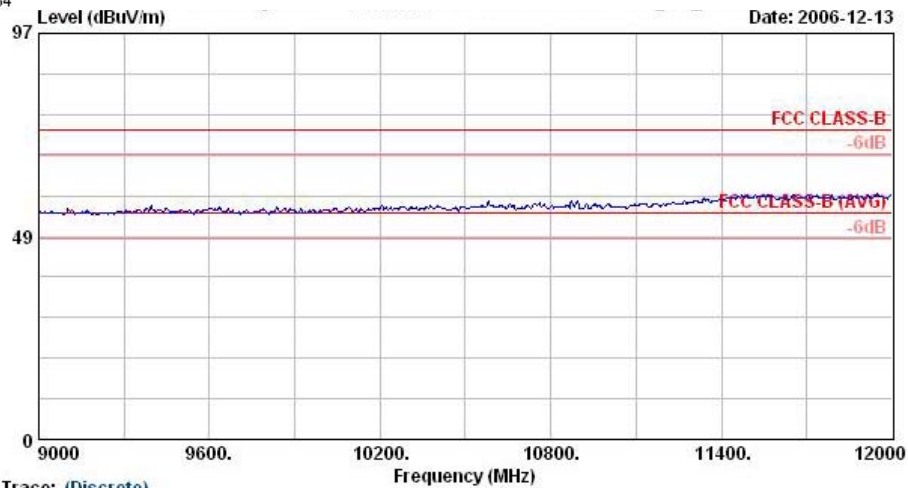


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11:2462MHz
Plane : E2
Data Rate : 54



Trace: (Discrete)
Site : 08CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11;2462MHz
Plane : E2
Data Rate : 54

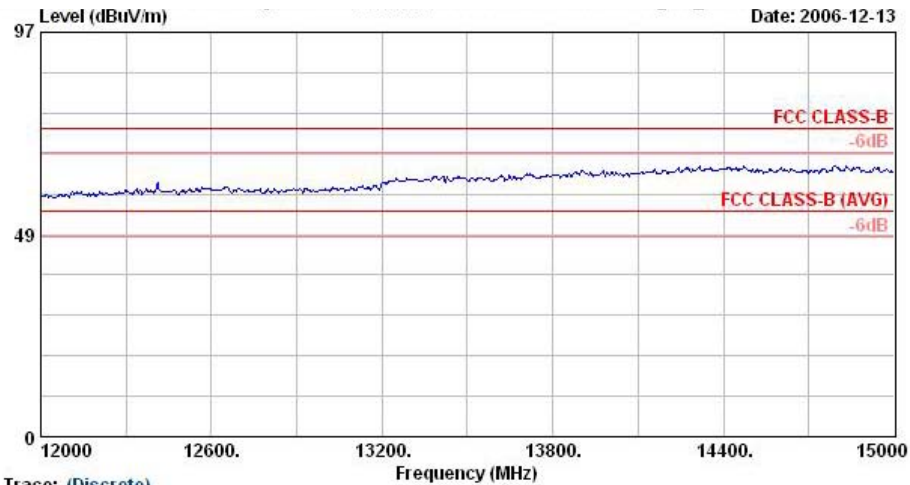


Trace: (Discrete)
Site : 08CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11;2462MHz
Plane : E2
Data Rate : 54



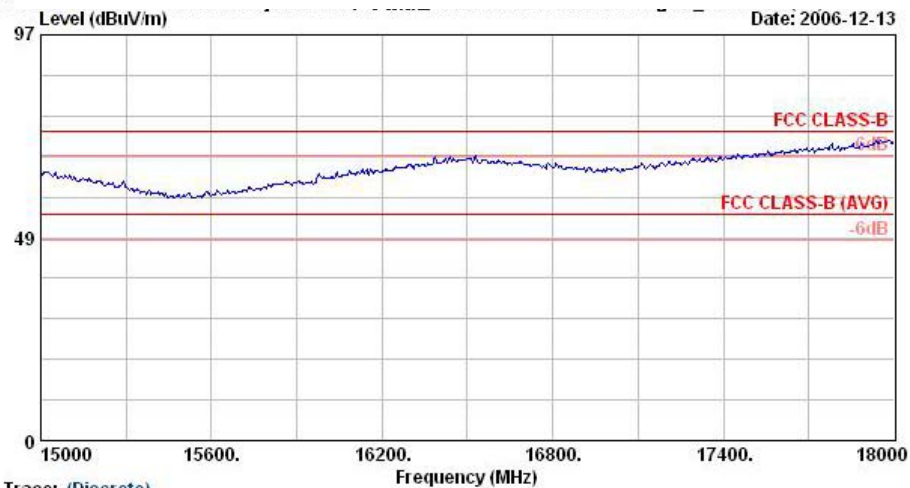
FCC TEST REPORT

Report No. : FR6N2811



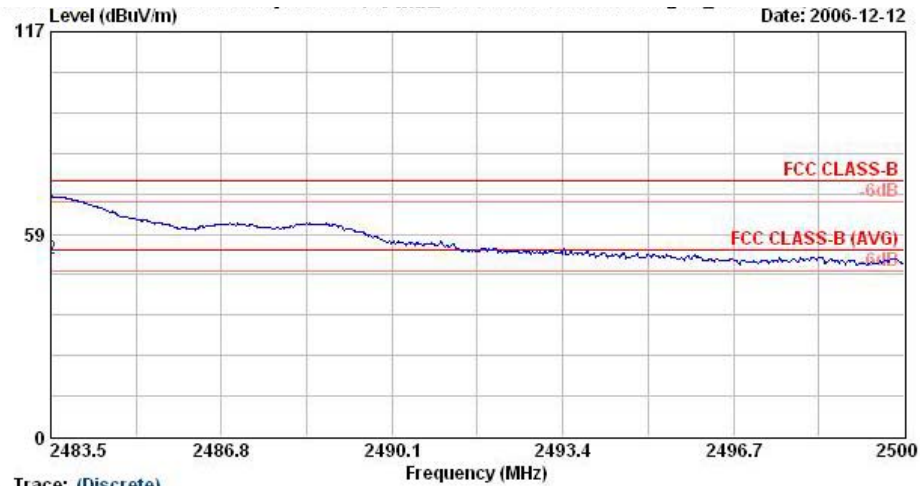
Trace: (Discrete)

Site : 09CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11;2462MHz
Plane : E2
Data Rate : 54



Trace: (Discrete)

Site : 09CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11;2462MHz
Plane : E2
Data Rate : 54



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : 11g Tx_Ch11:2462MHz
Plane : E2
Data Rate : 54

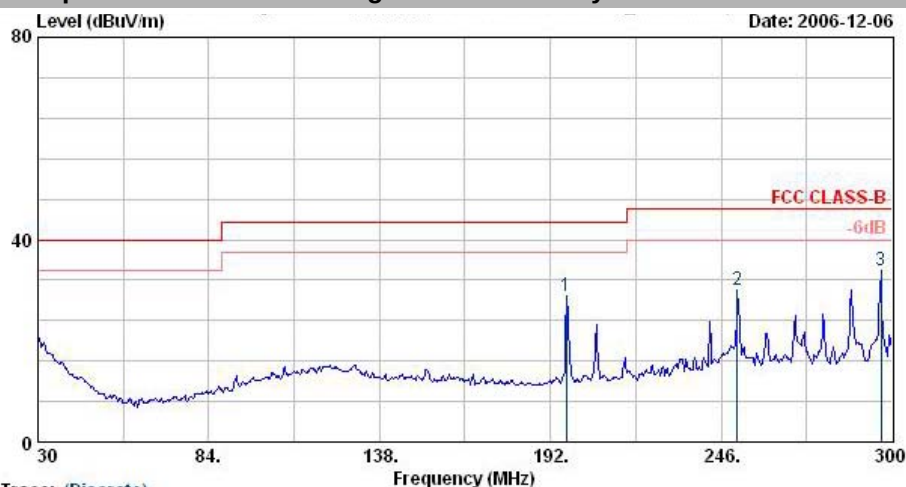
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	2483.5	69.52	-4.48	74.00	70.88	30.29	3.86	35.51	100	0	Peak
2 @	2483.5	51.35	-2.65	54.00	52.71	30.29	3.86	35.51	100	90	Average

Remark: There is no more obvious spurious emission except the listings above.



- Test Mode : Mode 7
- Polarization : Horizontal

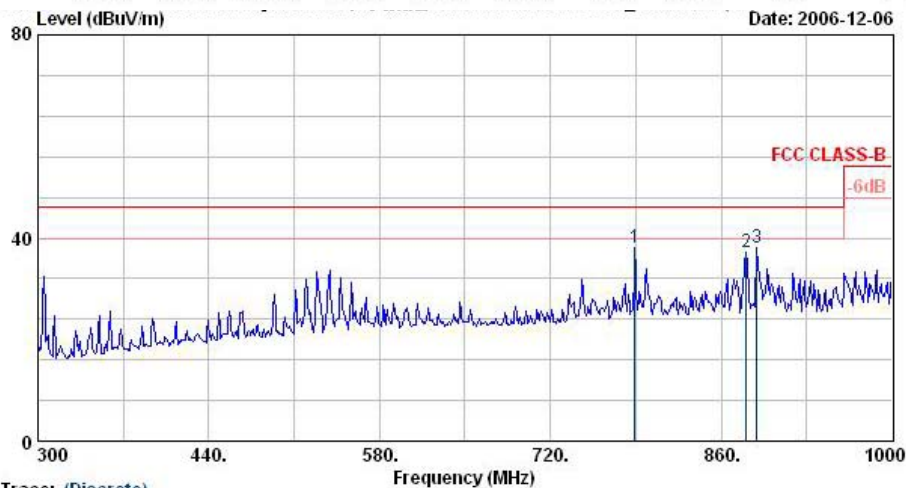
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 03CH06-HY
Condition : LP-ANT(951121) HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH00:2402MHz
Plane : E2
Data Rate : DHS

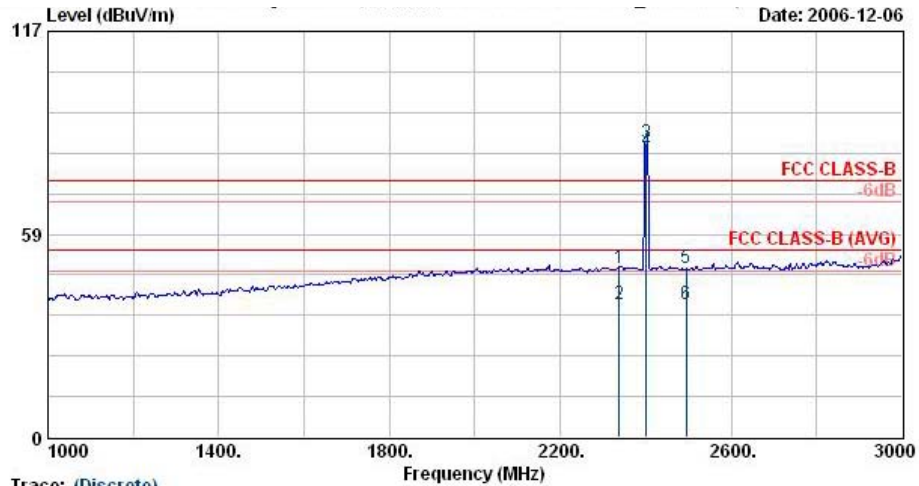
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	197.1	28.71	-14.79	43.50	48.27	9.32	2.14	31.02	100	0 Peak
2 @	251.1	30.19	-15.81	46.00	46.39	12.29	2.43	30.92	100	0 Peak
3 @	296.5	33.85	-12.15	46.00	49.02	13.15	2.62	30.94	100	0 Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : LP-ANT(951121) HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH00:2402MHz
Plane : E2
Data Rate : DHS

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	789.3	38.05	-7.95	46.00	44.26	19.72	4.58	30.50	100	0 Peak
2 @	880.3	37.21	-8.79	46.00	42.46	20.39	4.75	30.39	100	0 Peak
3 @	889.4	38.21	-7.79	46.00	43.35	20.45	4.78	30.38	100	32 Peak

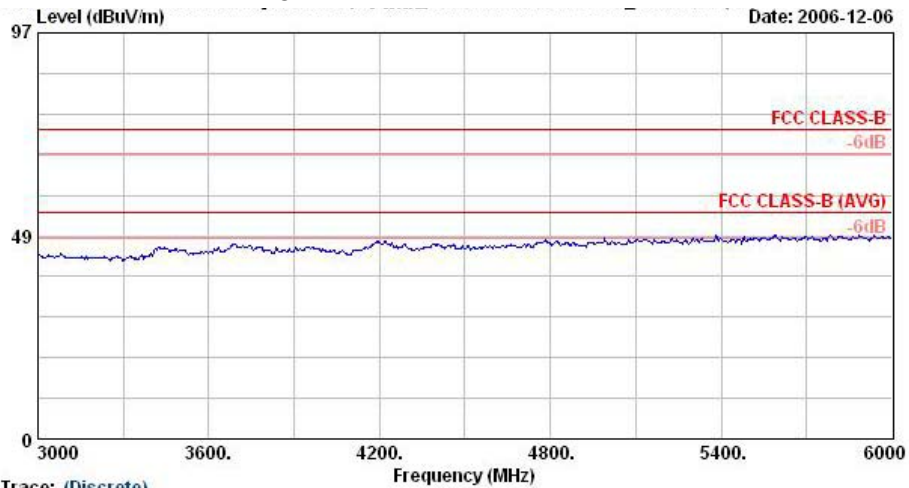


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH00;2402MHz
Plane : E2
Data Rate : DHS

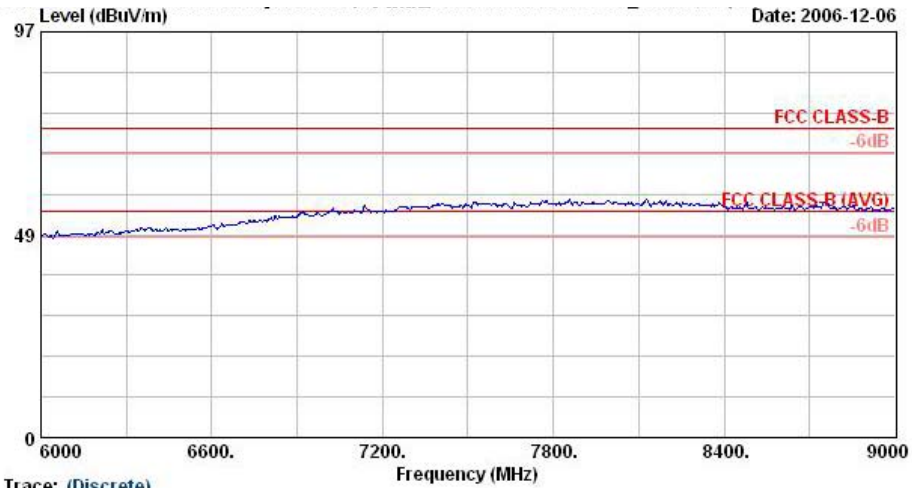
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2337.8	48.71	-25.29	74.00	50.18	30.24	3.69	35.40	100	0 Peak
2	2337.8	38.06	-15.94	54.00	39.54	30.24	3.69	35.40	100	68 Average
3 @	2402.0	84.65			86.07	30.26	3.77	35.46	100	0 Peak
4 @	2402.0	82.60			84.03	30.26	3.77	35.46	100	68 Average
5	2494.0	48.57	-25.43	74.00	49.92	30.30	3.88	35.53	100	0 Peak
6 @	2494.0	38.18	-15.82	54.00	39.53	30.30	3.88	35.53	100	68 Average

Remark: #3 and #4 Fundamental Signal



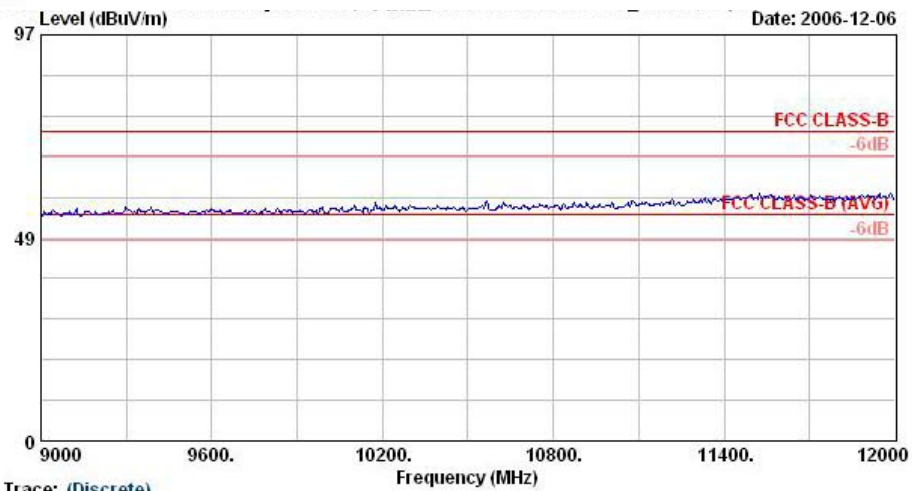
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH00;2402MHz
Plane : E2
Data Rate : DHS



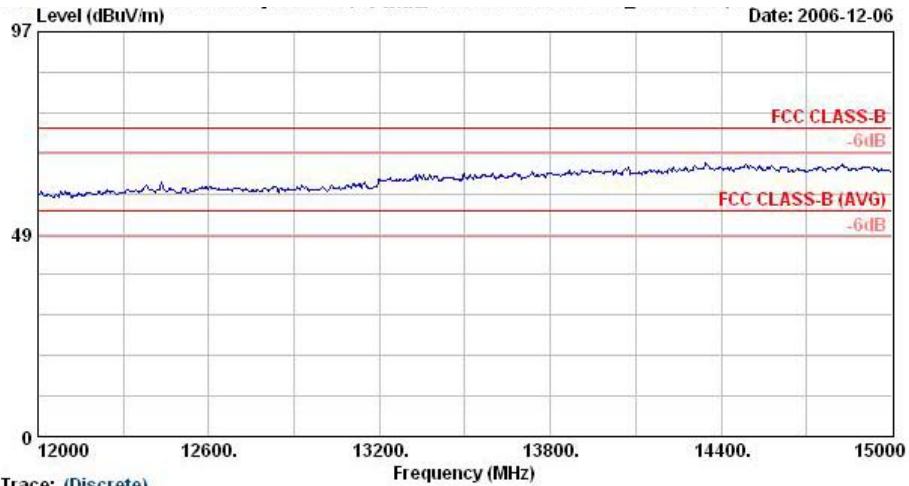
Trace: (Discrete)

Site : 03CH06-HY
Condition : HP-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH00;2402MHz
Plane : E2
Data Rate : DH5



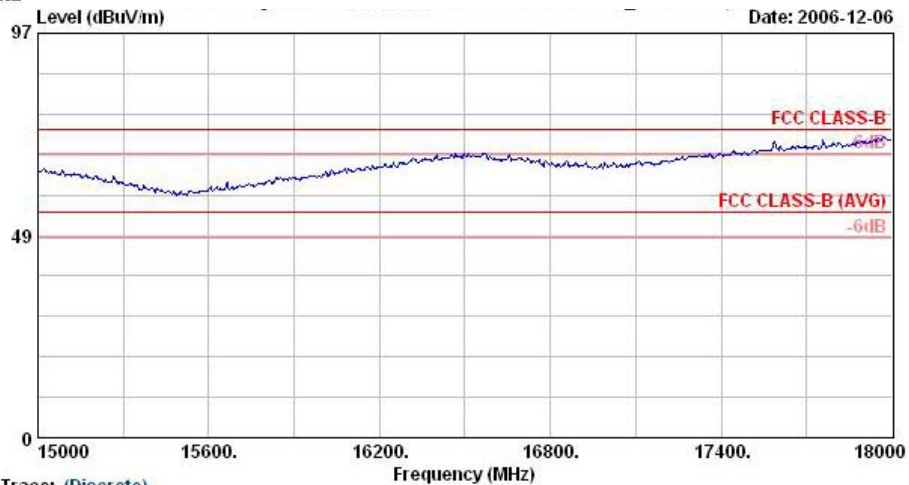
Trace: (Discrete)

Site : 03CH06-HY
Condition : HP-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH00;2402MHz
Plane : E2
Data Rate : DH5



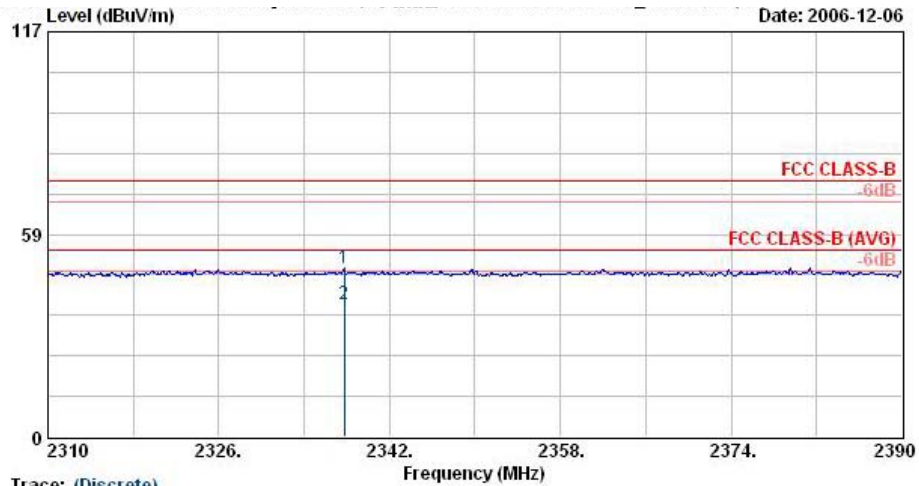
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120W_{ac}/60Hz
Model : FR 6N2811
Mode : BT Tx_CH00;2402MHz
Plane : E2
Data Rate : DHS



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120W_{ac}/60Hz
Model : FR 6N2811
Mode : BT Tx_CH00;2402MHz
Plane : E2
Data Rate : DHS

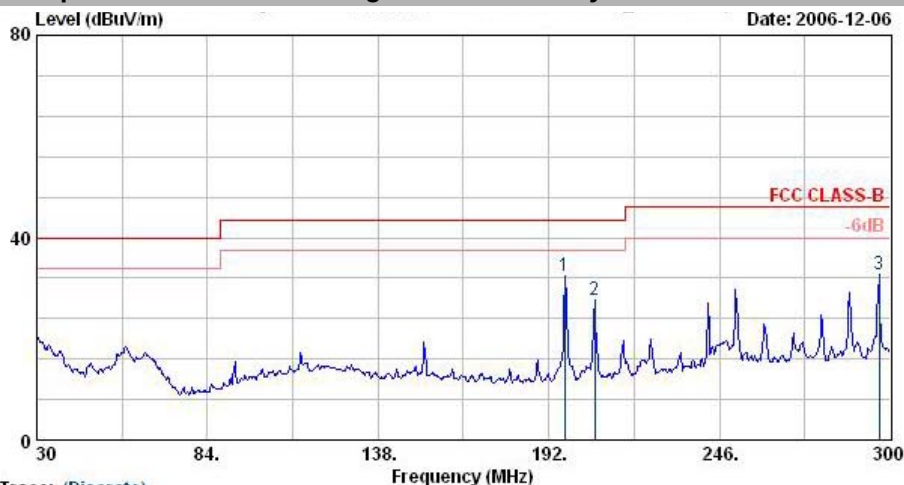


	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2337.8	48.71	-25.29	74.00	50.18	30.24	3.69	35.40	100	0 Peak
2	2337.8	38.06	-15.94	54.00	39.54	30.24	3.69	35.40	100	68 Average



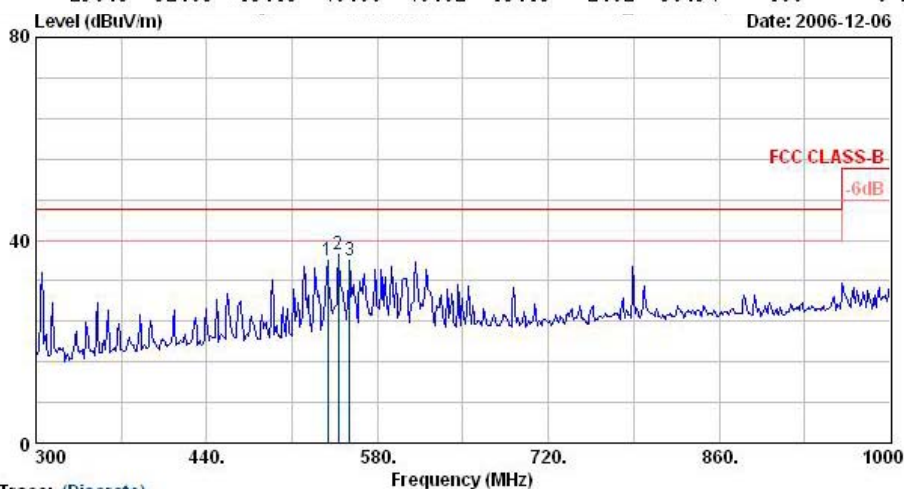
- Polarization : Vertical

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



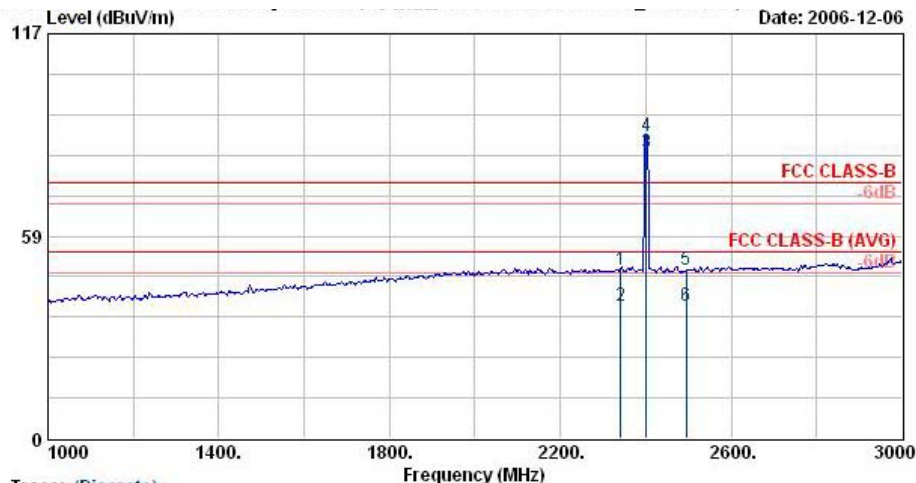
Trace: (Discrete)
Site : 03CH06-HY
Condition : LP-ANT(951121) VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH00;2402MHz
Plane : E2
Data Rate : DHS

	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 @	197.1	32.28	-11.22	43.50	51.84	9.32	2.14	31.02	100	0 Peak
2	206.6	27.66	-15.84	43.50	46.81	9.70	2.17	31.03	100	0 Peak
3 @	296.5	32.85	-13.15	46.00	48.02	13.15	2.62	30.94	100	0 Peak



Trace: (Discrete)
Site : 03CH06-HY
Condition : LP-ANT(951121) VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH00;2402MHz
Plane : E2
Data Rate : DHS

	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 @	539.4	35.89	-10.11	46.00	45.12	17.83	3.68	30.74	100	0 Peak
2 @	547.8	37.11	-8.89	46.00	46.20	17.92	3.72	30.73	100	175 Peak
3 @	556.9	35.92	-10.08	46.00	44.88	18.02	3.75	30.72	100	0 Peak

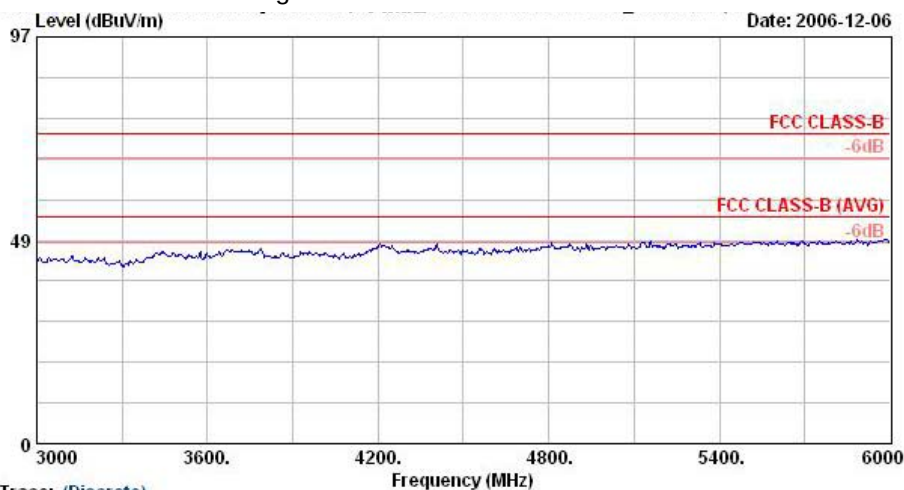


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx.CH00;2402MHz
Plane : E2
Data Rate : DHS

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2340.6	48.58	-25.42	74.00	50.05	30.24	3.71	35.42	100	0 Peak
2 @	2340.6	38.16	-15.84	54.00	39.64	30.24	3.71	35.42	100	28 Average
3 @	2402.0	82.55			83.98	30.26	3.77	35.46	100	28 Average
4 @	2402.0	87.48			88.90	30.27	3.77	35.46	100	0 Peak
5	2494.0	48.62	-25.38	74.00	49.97	30.30	3.88	35.53	100	0 Peak
6 @	2494.0	38.19	-15.81	54.00	39.54	30.30	3.88	35.53	100	28 Average

Remark: #3 and #4 Fundamental Signal



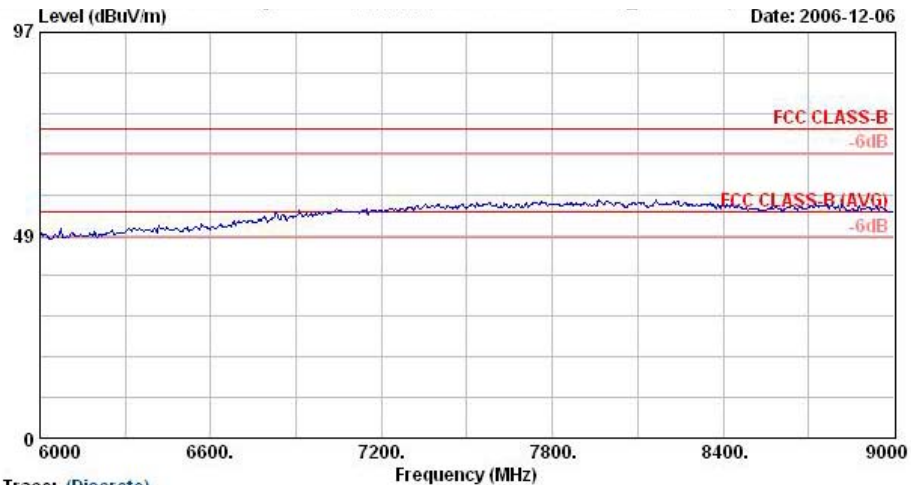
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx.CH00;2402MHz
Plane : E2
Data Rate : DHS



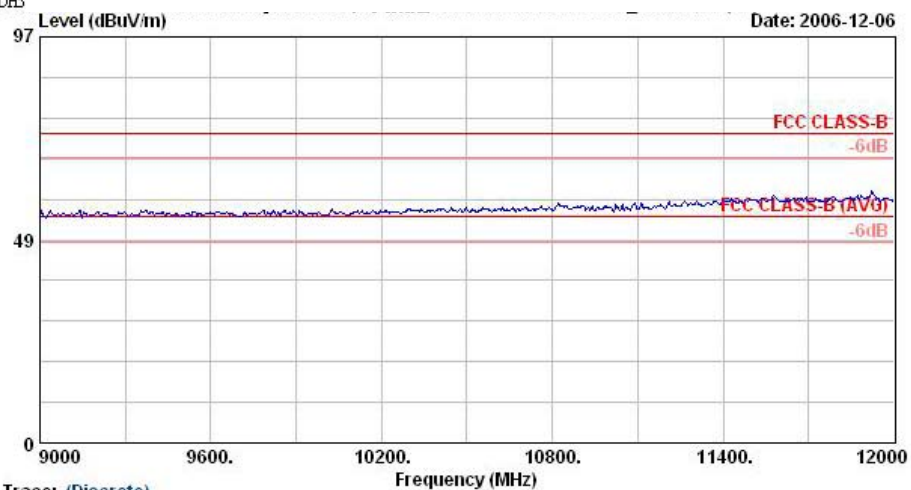
FCC TEST REPORT

Report No. : FR6N2811



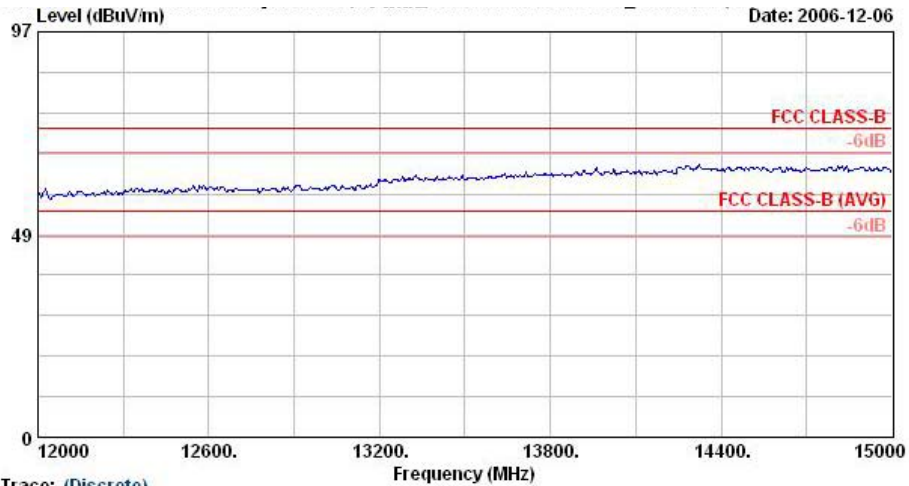
Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120W_{ac}/60Hz
Model : FR 6N2811
Mode : BT Tx_CH00;2402MHz
Plane : E2
Data Rate : DHS

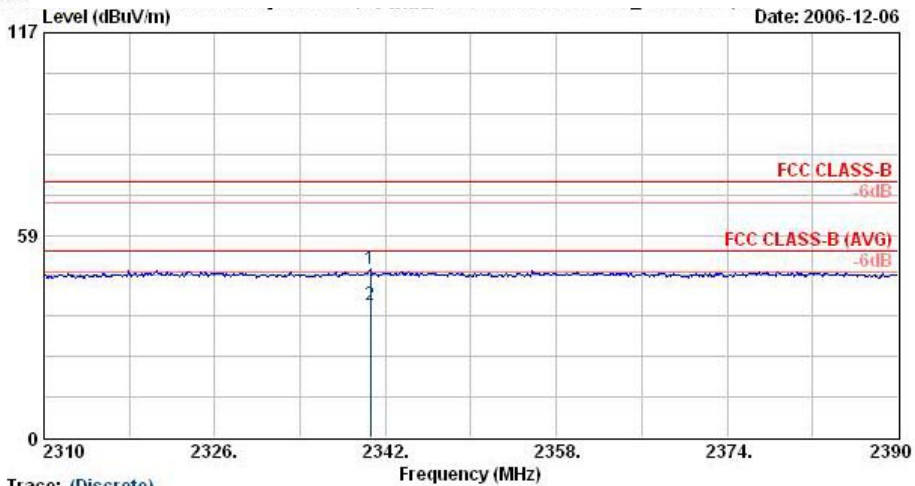


Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120W_{ac}/60Hz
Model : FR 6N2811
Mode : BT Tx_CH00;2402MHz
Plane : E2
Data Rate : DHS



Trace: (Discrete)
Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120V_{ac}/60Hz
Model : FR 6N2811
Mode : BT Tx_CH00;2402MHz
Plane : E2
Data Rate : DHS



Trace: (Discrete)
Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120V_{ac}/60Hz
Model : FR 6N2811
Mode : BT Tx_CH00;2402MHz
Plane : E2
Data Rate : DHS

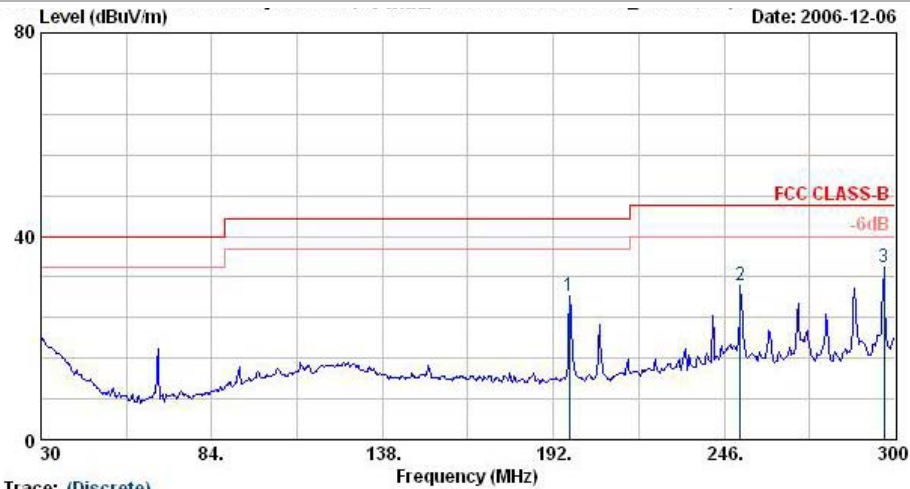
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2340.6	48.58	-25.42	74.00	50.05	30.24	3.71	35.42	100	0 Peak
2 @	2340.6	38.16	-15.84	54.00	39.64	30.24	3.71	35.42	100	28 Average

Remark: There is no more obvious spurious emission except the listings above.



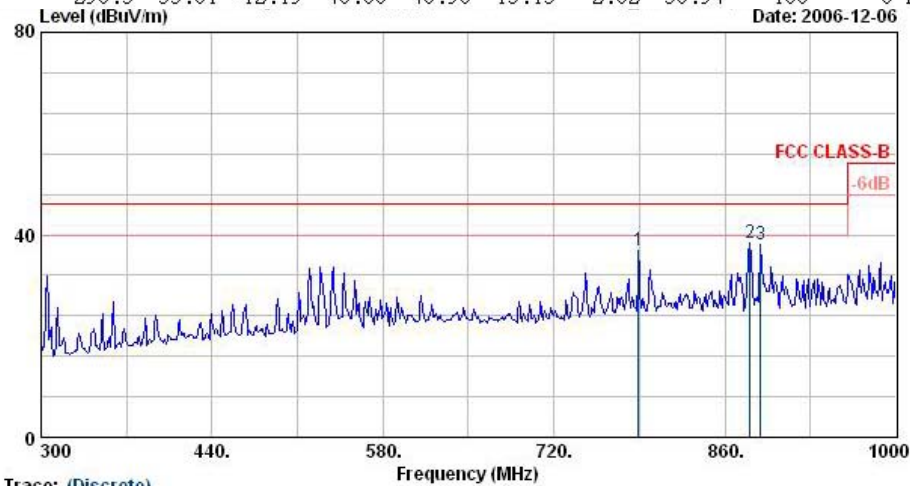
- Test Mode : Mode 8
- Polarization : Horizontal

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



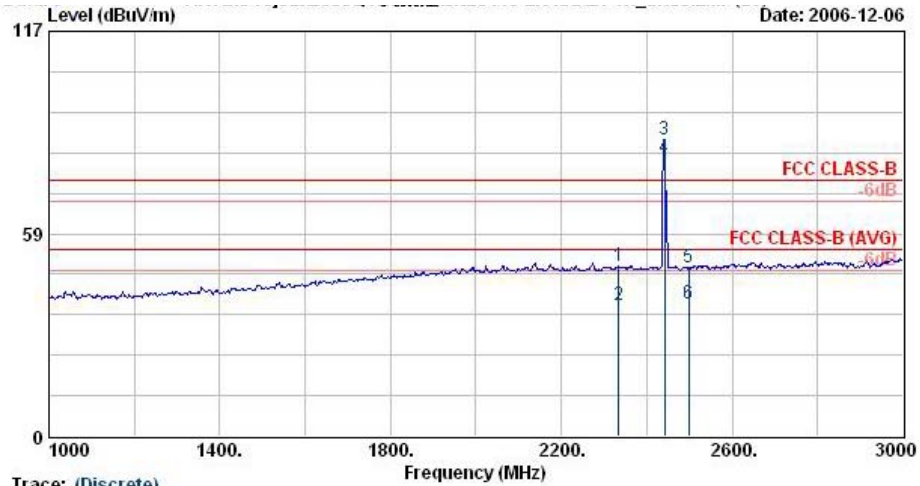
Trace: (Discrete)
Site : 08CH06-HY
Condition : LP-ANT(951121) HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH39,2441MHz
Plane : E2
Data Rate : DH5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	197.1	28.32	-15.18	43.50	47.88	9.32	2.14	31.02	100	0 Peak
2 @	251.1	30.33	-15.67	46.00	46.53	12.29	2.43	30.92	100	0 Peak
3 @	296.5	33.81	-12.19	46.00	48.98	13.15	2.62	30.94	100	0 Peak



Trace: (Discrete)
Site : 08CH06-HY
Condition : LP-ANT(951121) HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH39,2441MHz
Plane : E2
Data Rate : DH5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	789.3	36.88	-9.12	46.00	43.09	19.72	4.58	30.50	100	0 Peak
2 @	880.3	38.31	-7.69	46.00	43.55	20.39	4.75	30.39	100	78 Peak
3 @	889.4	38.15	-7.85	46.00	43.29	20.45	4.78	30.38	100	0 Peak

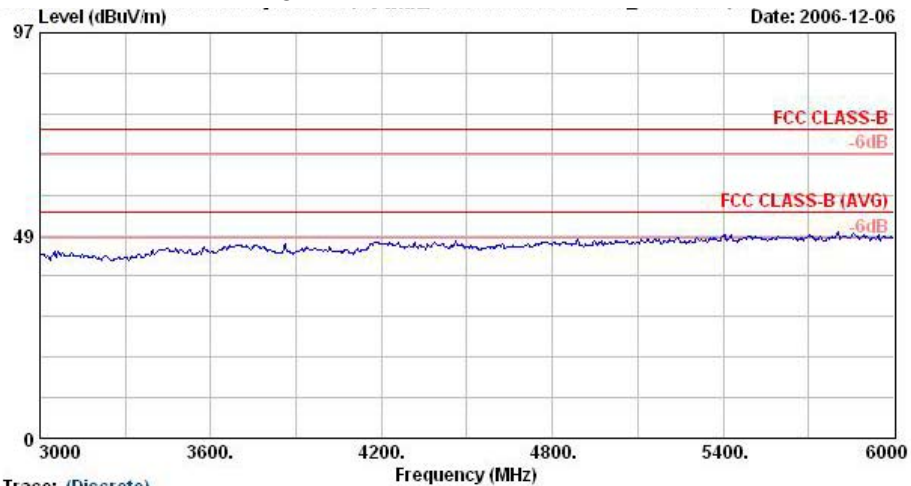


Trace: (Discrete)

Site : 03CH06-HY
Condition : HP-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH39;2441MHz
Plane : E2
Data Rate : DHS

	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 @	2334.0	49.16	-24.84	74.00	50.65	30.23	3.69	35.40	100	0 Peak
2 @	2334.0	37.96	-16.04	54.00	39.45	30.23	3.69	35.40	100	38 Average
3 @	2441.0	85.51			86.89	30.28	3.82	35.47	100	0 Peak
4 @	2441.0	80.67			82.07	30.28	3.82	35.49	100	38 Average
5 @	2498.0	48.70	-25.30	74.00	50.05	30.30	3.88	35.53	100	0 Peak
6 @	2498.0	38.07	-15.93	54.00	39.42	30.30	3.88	35.53	100	38 Average

Remark: #3 and #4 Fundamental Signal



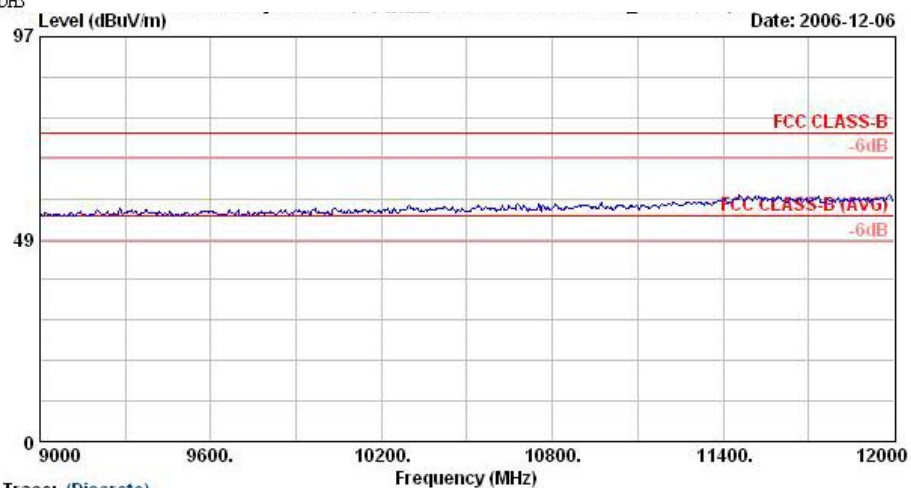
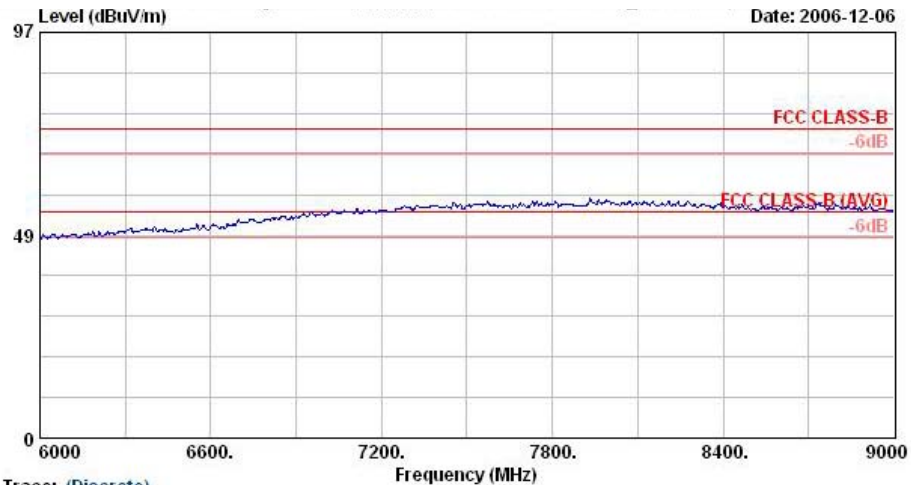
Trace: (Discrete)

Site : 03CH06-HY
Condition : HP-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH39;2441MHz
Plane : E2
Data Rate : DHS



FCC TEST REPORT

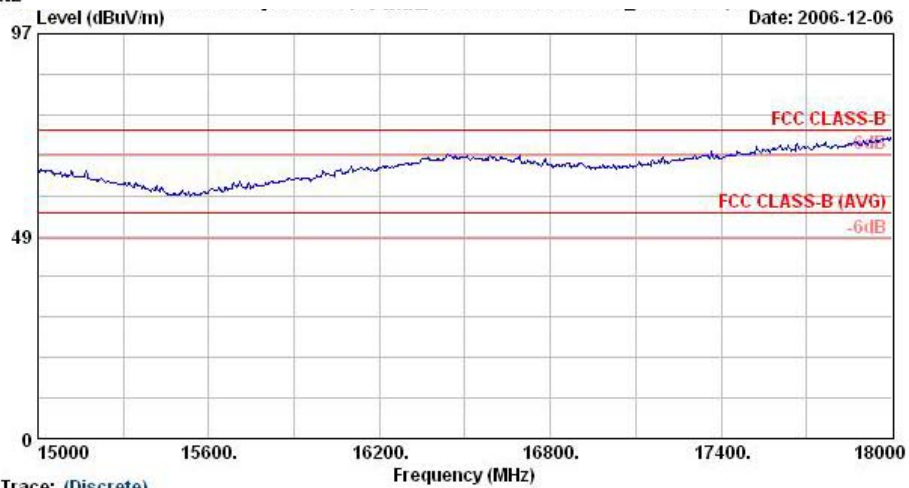
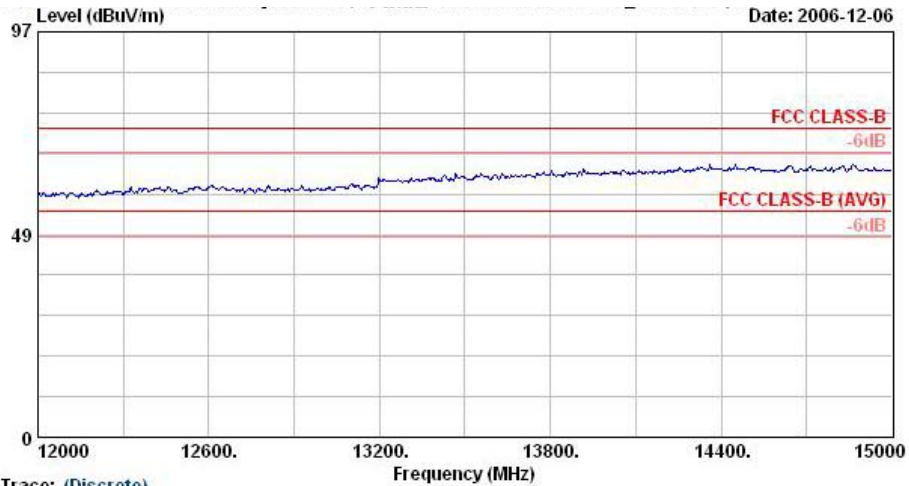
Report No. : FR6N2811

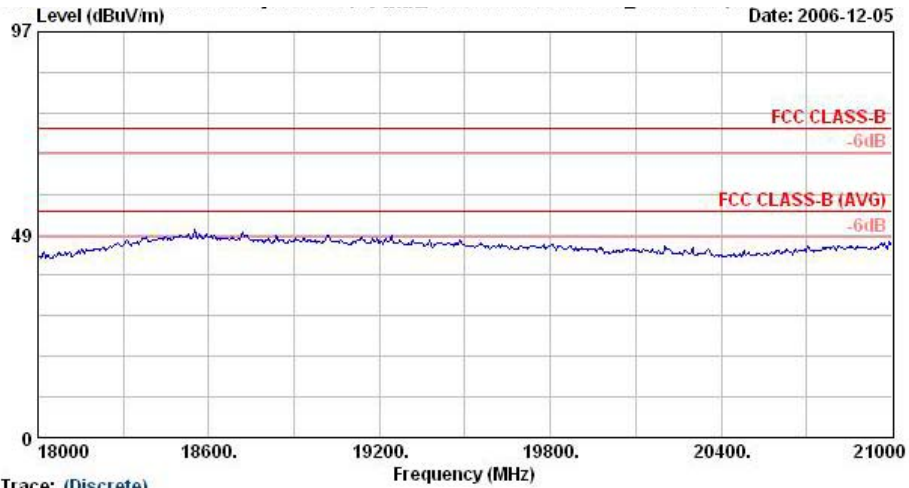




FCC TEST REPORT

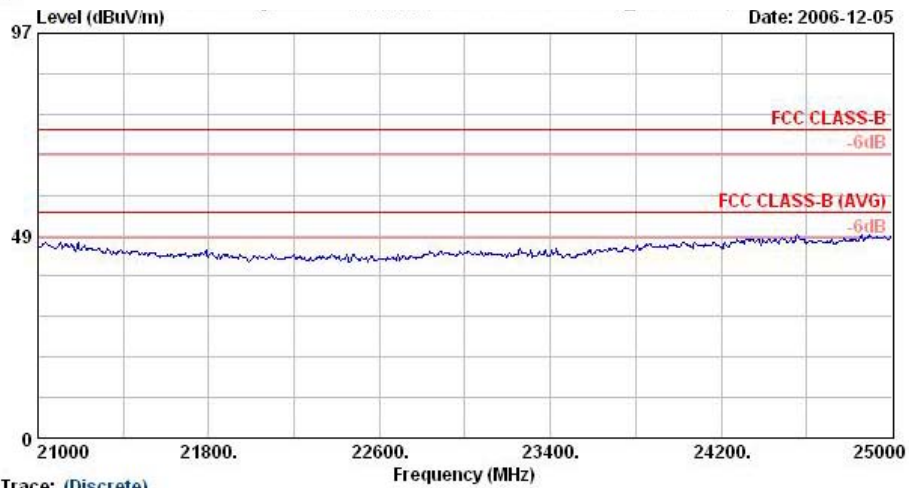
Report No. : FR6N2811





Trace: (Discrete)

Site : 03CH06-HY
Condition : SHF-EHF HORN HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH39;2441MHz
Plane : E2
Data Rate : DHS



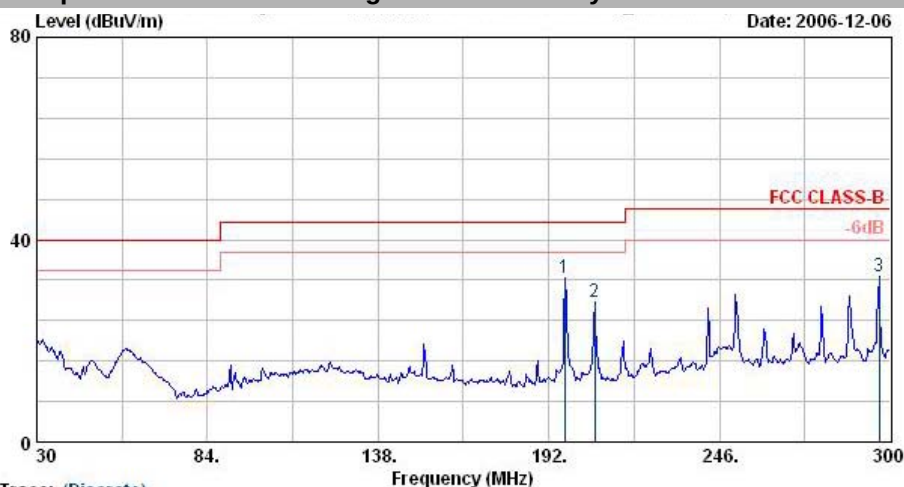
Trace: (Discrete)

Site : 03CH06-HY
Condition : SHF-EHF HORN HORIZONTAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH39;2441MHz
Plane : E2
Data Rate : DHS



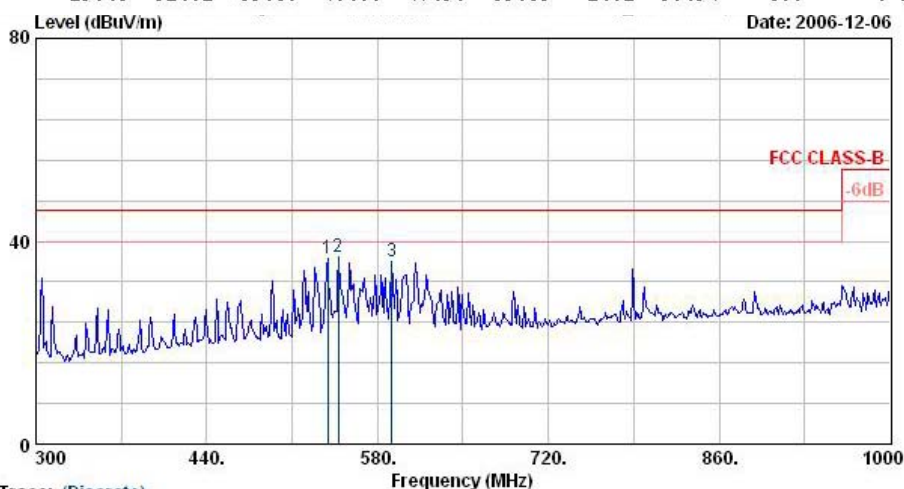
Polarization : Vertical

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



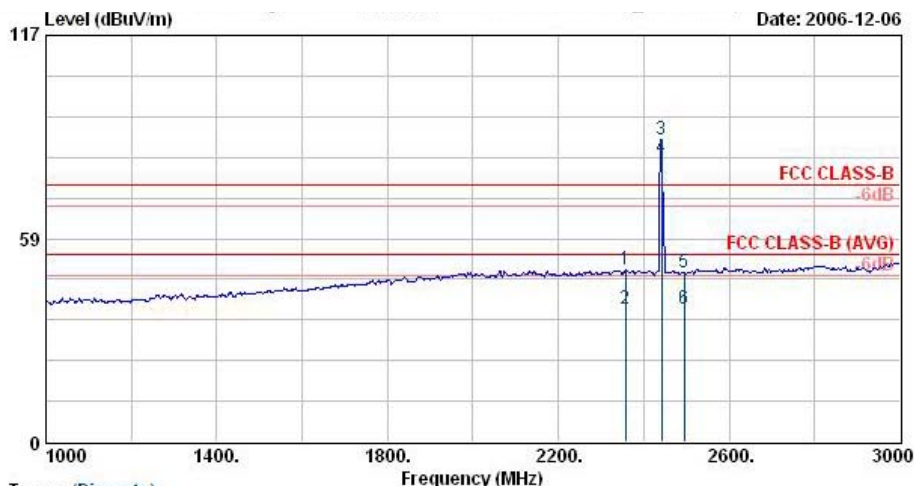
Trace: (Discrete)
Site : 08CH06-HY
Condition : LP-ANT(951121) VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH39;2441MHz
Plane : E2
Data Rate : DHS

	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/m	dB	dB	cm	deg
1 @	197.1	32.45	-11.05	43.50	52.02	9.32	2.14	31.02	100	0 Peak
2 @	206.6	27.62	-15.88	43.50	46.77	9.70	2.17	31.03	100	0 Peak
3 @	296.5	32.82	-13.18	46.00	47.98	13.15	2.62	30.94	100	0 Peak



Trace: (Discrete)
Site : 08CH06-HY
Condition : LP-ANT(951121) VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH39;2441MHz
Plane : E2
Data Rate : DHS

	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/m	dB	dB	cm	deg
1 @	539.4	36.48	-9.52	46.00	45.70	17.83	3.68	30.74	100	0 Peak
2 @	547.8	36.75	-9.25	46.00	45.84	17.92	3.72	30.73	100	12 Peak
3 @	591.9	35.98	-10.02	46.00	44.42	18.38	3.85	30.67	100	0 Peak

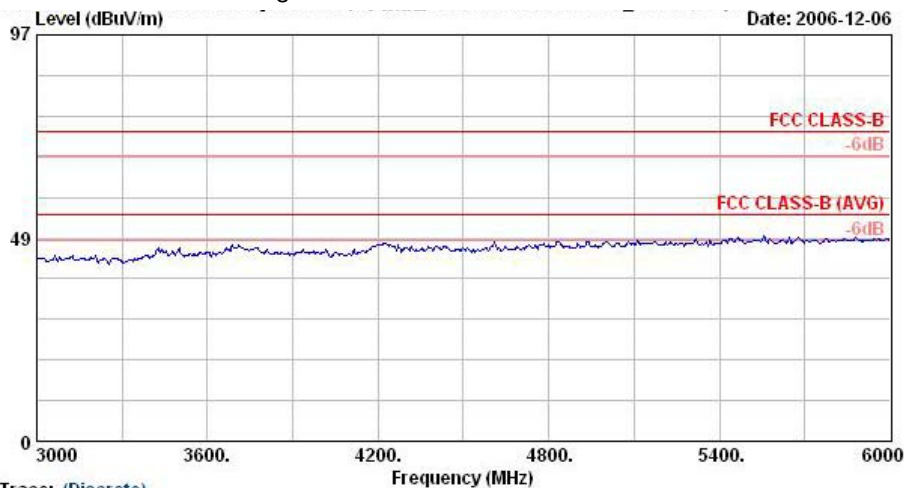


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH39;2441MHz
Plane : E2
Data Rate : DH5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	2358.0	49.65	-24.35	74.00	51.12	30.24	3.71	35.42	100	0 Peak
2 @	2358.0	38.10	-15.90	54.00	39.57	30.24	3.71	35.42	100	27 Average
3 @	2441.0	86.83			88.21	30.28	3.82	35.47	100	0 Peak
4 @	2441.0	81.65			83.05	30.28	3.82	35.49	100	27 Average
5 @	2494.0	48.90	-25.10	74.00	50.25	30.30	3.88	35.53	100	0 Peak
6 @	2494.0	38.19	-15.81	54.00	39.54	30.30	3.88	35.53	100	27 Average

Remark: #3 and #4 Fundamental Signal



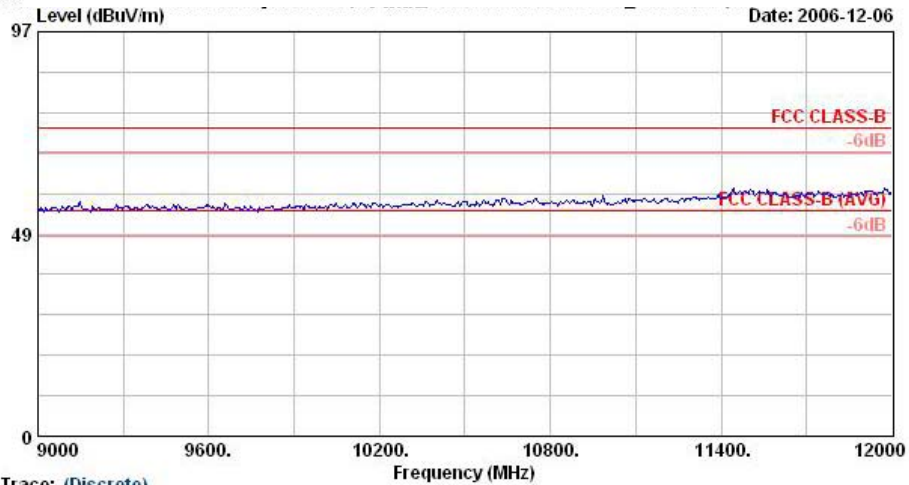
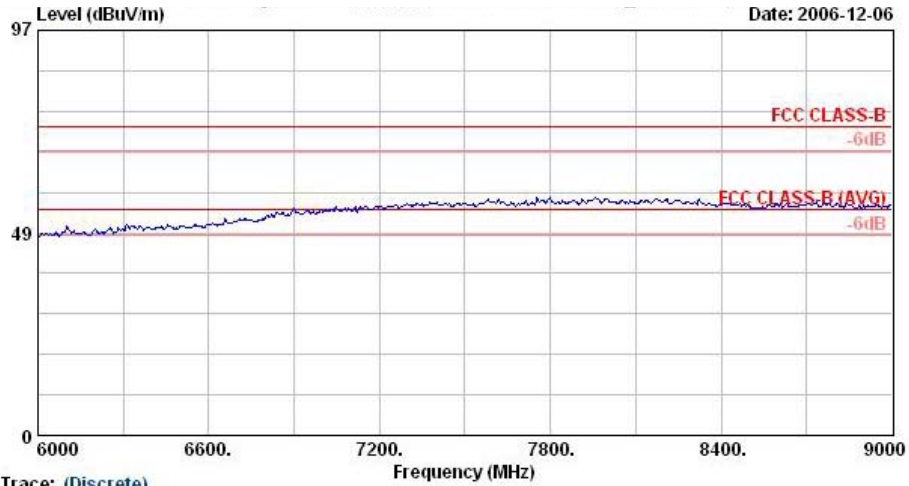
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH39;2441MHz
Plane : E2
Data Rate : DH5



FCC TEST REPORT

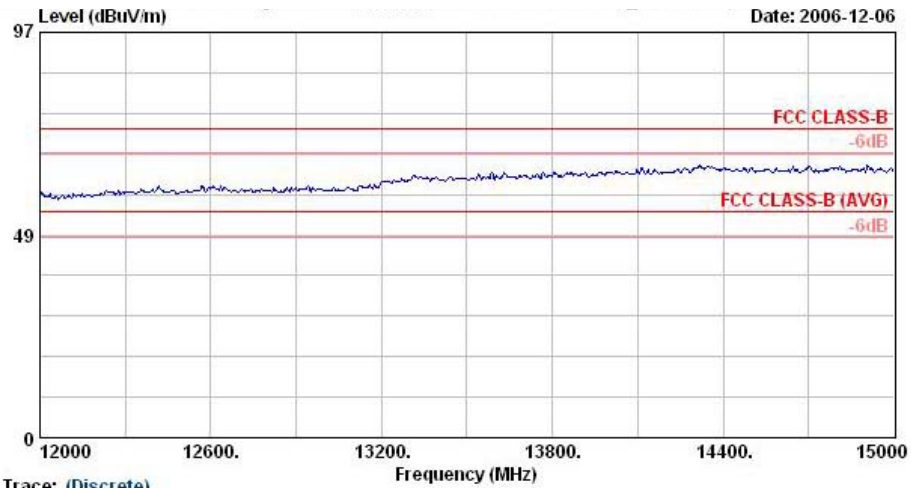
Report No. : FR6N2811





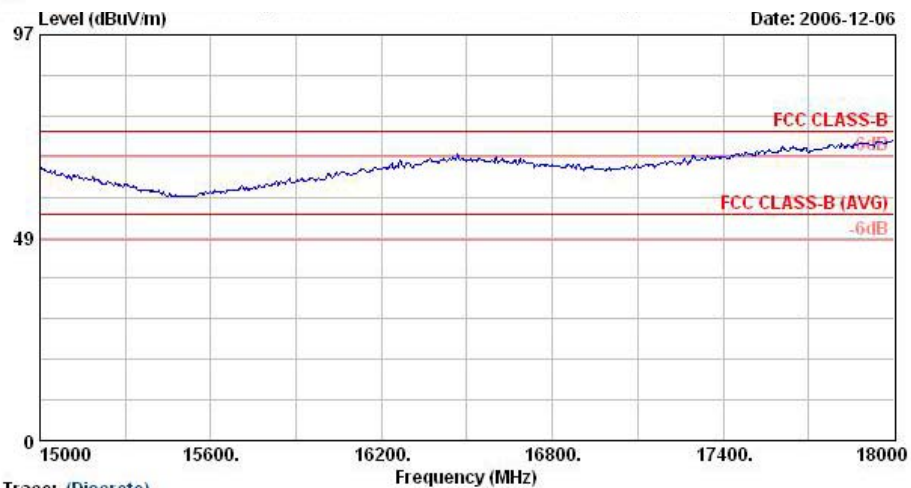
FCC TEST REPORT

Report No. : FR6N2811



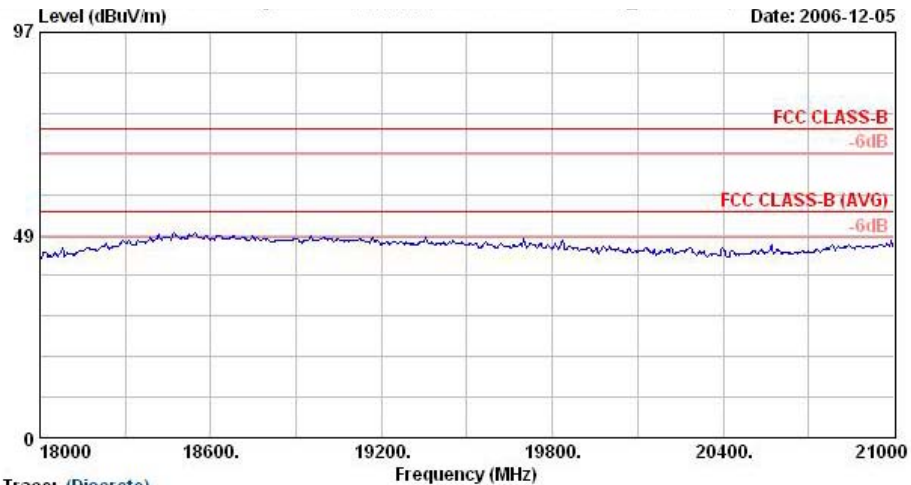
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH39,2441MHz
Plane : E2
Data Rate : DHS



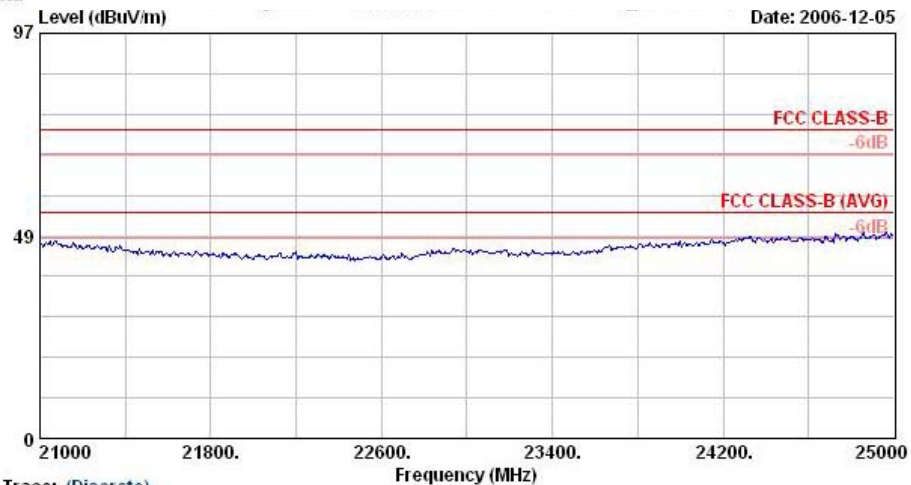
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH39,2441MHz
Plane : E2
Data Rate : DHS



Trace: (Discrete)

Site : 03CH06-HY
Condition : SHF-EHF HORN VERTICAL
EUT : Mobile Phone
Power : 120W_{ac}/60Hz
Model : FR 6N2811
Mode : BT Tx_CH39/2441MHz
Plane : E2
Data Rate : DHS



Trace: (Discrete)

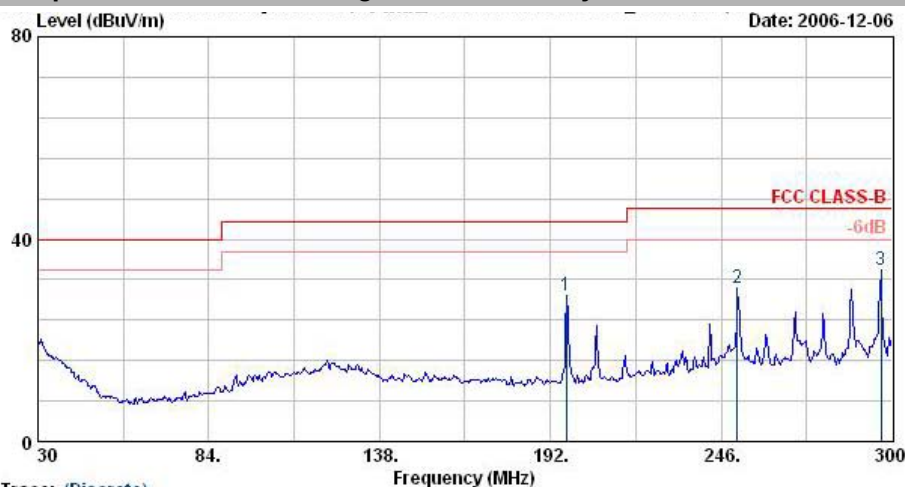
Site : 03CH06-HY
Condition : SHF-EHF HORN VERTICAL
EUT : Mobile Phone
Power : 120W_{ac}/60Hz
Model : FR 6N2811
Mode : BT Tx_CH39/2441MHz
Plane : E2
Data Rate : DHS

Remark: There is no more obvious spurious emission except the listings above.



- Test Mode : Mode 9
- Polarization : Horizontal

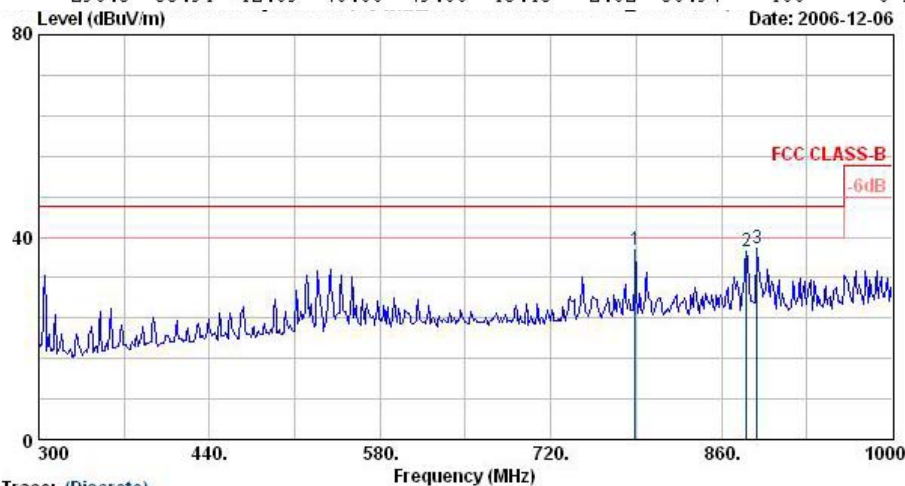
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-ANT(951121) HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78;2480MHz
Plane : E2
Data Rate : DH5

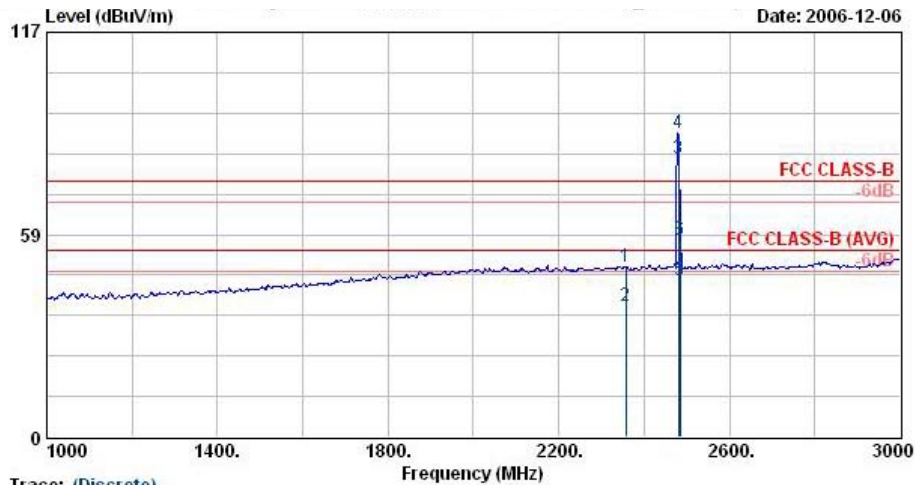
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	197.1	28.80	-14.70	43.50	48.36	9.32	2.14	31.02	100	0 Peak
2	251.1	30.22	-15.78	46.00	46.42	12.29	2.43	30.92	100	0 Peak
3	296.5	33.91	-12.09	46.00	49.08	13.15	2.62	30.94	100	0 Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-ANT(951121) HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78;2480MHz
Plane : E2
Data Rate : DH5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	789.3	37.40	-8.60	46.00	43.60	19.72	4.58	30.50	100	0 Peak
2	880.3	37.26	-8.74	46.00	42.50	20.39	4.75	30.39	100	0 Peak
3	889.4	37.87	-8.13	46.00	43.01	20.45	4.78	30.38	100	155 Peak

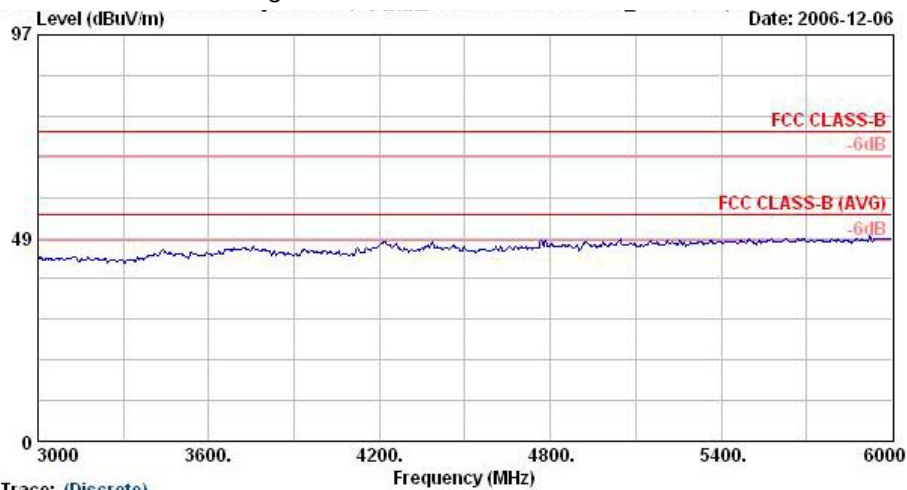


Trace: (Discrete)

Site : 08CHD6-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78;2480MHz
Plane : E2
Data Rate : DH5

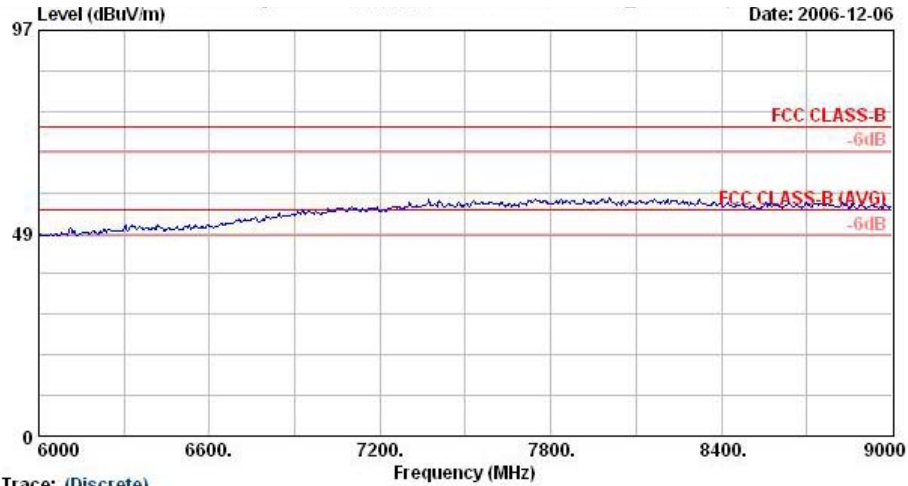
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2358.0	49.33	-24.67	74.00	50.80	30.24	3.71	35.42	100	0 Peak
2	2358.0	38.01	-15.99	54.00	39.48	30.24	3.71	35.42	100	37 Average
3 @	2480.0	80.27			81.63	30.29	3.86	35.51	100	37 Average
4 @	2480.0	87.94			89.30	30.29	3.86	35.51	100	0 Peak
5	2483.7	45.12	-8.88	54.00	46.48	30.29	3.86	35.51	100	37 Average
6	2483.7	57.16	-16.84	74.00	58.52	30.29	3.86	35.51	100	0 Peak

Remark: #3 and #4 Fundamental Signal



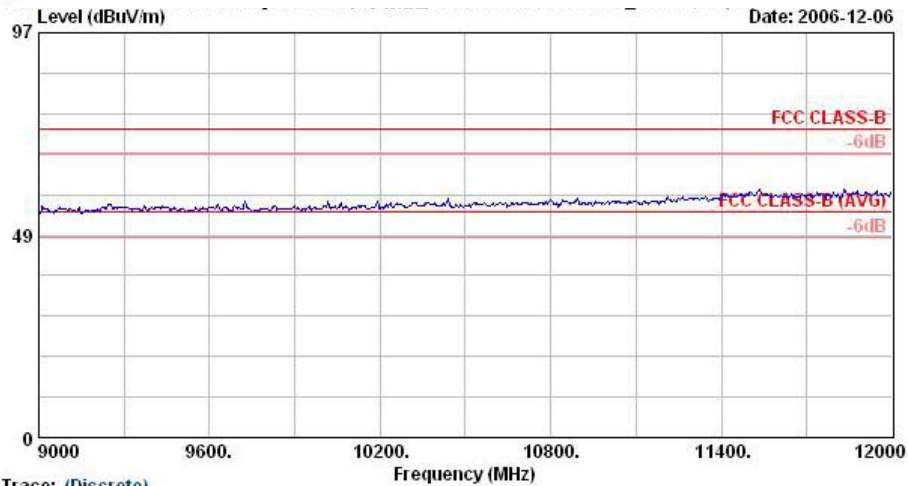
Trace: (Discrete)

Site : 08CHD6-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78;2480MHz
Plane : E2
Data Rate : DH5



Trace: (Discrete)

Site : 03CH06-HY
Condition : HP-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78;2480MHz
Plane : E2
Data Rate : DH5



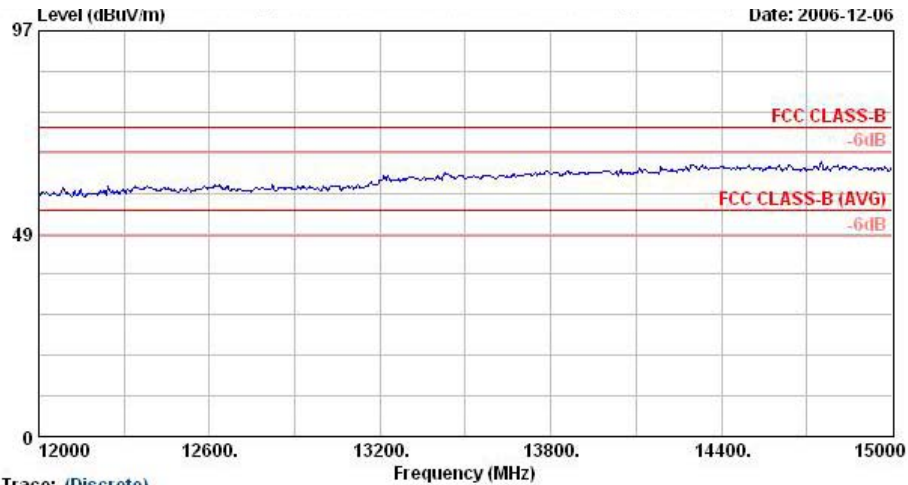
Trace: (Discrete)

Site : 03CH06-HY
Condition : HP-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78;2480MHz
Plane : E2
Data Rate : DH5



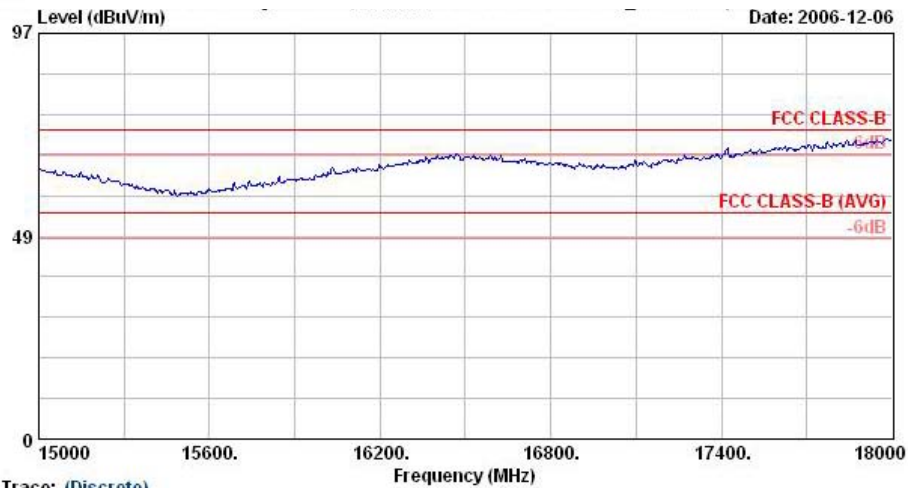
FCC TEST REPORT

Report No. : FR6N2811



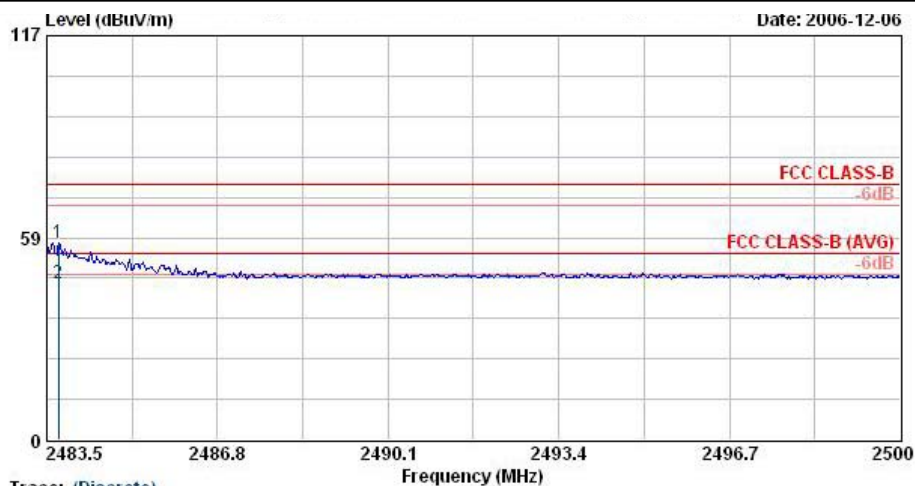
Trace: (Discrete)

Site : 08CHD6-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78;2480MHz
Plane : E2
Data Rate : DH5



Trace: (Discrete)

Site : 08CHD6-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78;2480MHz
Plane : E2
Data Rate : DH5



Trace: (Discrete)

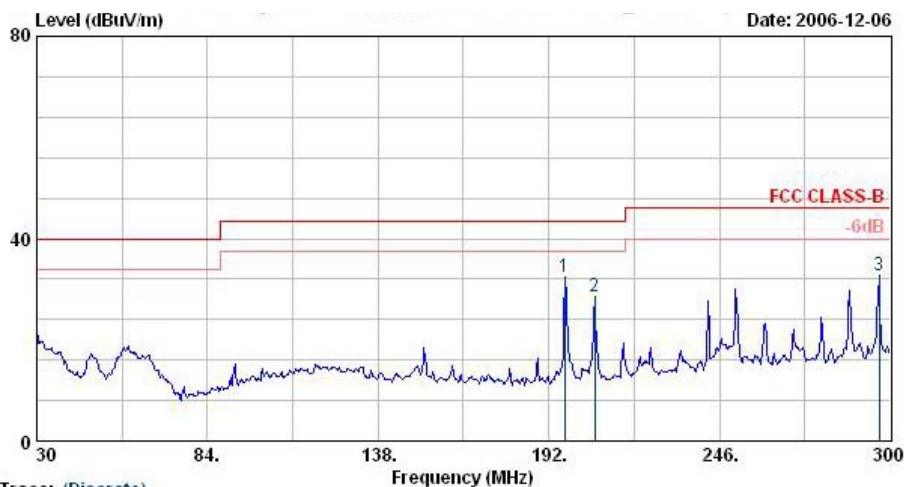
Site : 03CHD6-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78;2480MHz
Plane : E2
Data Rate : DH5

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2483.7	57.16	-16.84	74.00	58.52	30.29	3.86	35.51	100	0	Peak
2	2483.7	45.12	-8.88	54.00	46.48	30.29	3.86	35.51	100	37	Average

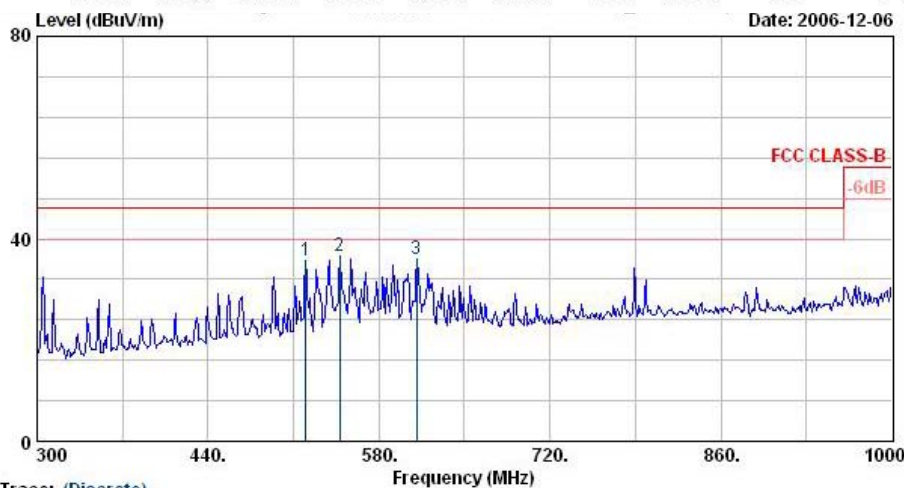


Polarization : Vertical

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



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	197.1	32.30	-11.20	43.50	51.86	9.32	2.14	31.02	100	0 Peak
2	206.6	28.51	-14.99	43.50	47.66	9.70	2.17	31.03	100	0 Peak
3	296.5	32.77	-13.23	46.00	47.94	13.15	2.62	30.94	100	0 Peak

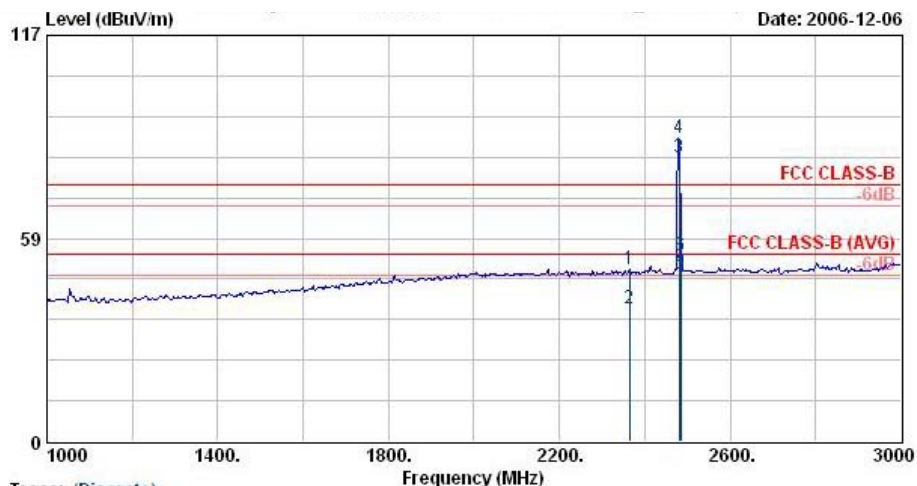


	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	519.8	35.78	-10.22	46.00	45.32	17.63	3.60	30.77	100	0 Peak
2	547.8	36.62	-9.38	46.00	45.71	17.92	3.72	30.73	100	75 Peak
3	610.8	35.90	-10.10	46.00	44.12	18.51	3.92	30.66	100	0 Peak



FCC TEST REPORT

Report No. : FR6N2811

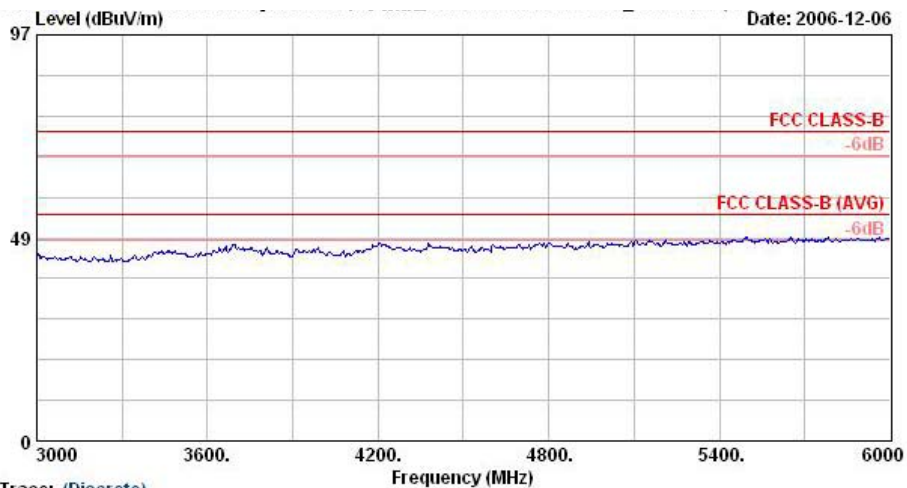


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78;2480MHz
Plane : E2
Data Rate : DH5

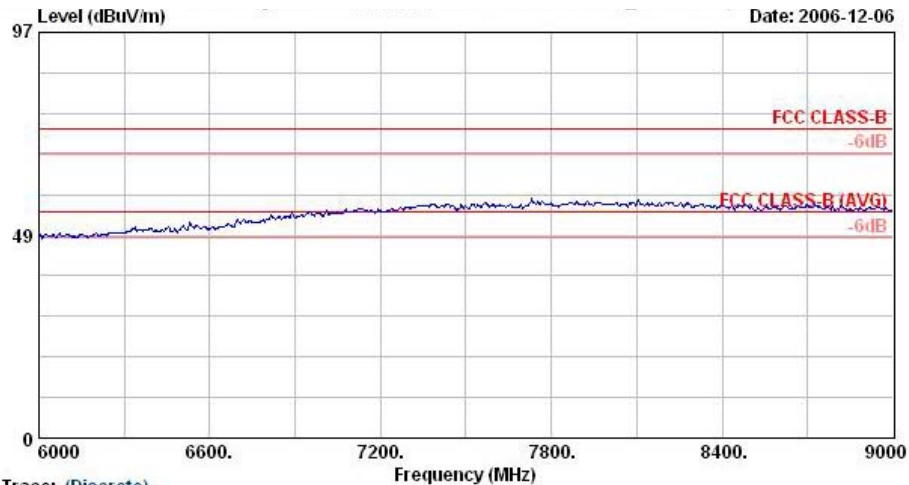
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2364.0	49.59	-24.41	74.00	51.04	30.24	3.73	35.42	100	0 Peak
2	2364.0	38.06	-15.94	54.00	39.51	30.24	3.73	35.42	100	346 Average
3 @	2480.0	81.78			83.14	30.29	3.86	35.51	100	346 Average
4 @	2480.0	87.58			88.94	30.29	3.86	35.51	100	0 Peak
5 @	2483.5	48.49	-5.51	54.00	49.85	30.29	3.86	35.51	100	346 Average
6	2483.5	53.47	-20.53	74.00	54.82	30.29	3.86	35.51	100	0 Peak

Remark: #3 and #4 Fundamental Signal



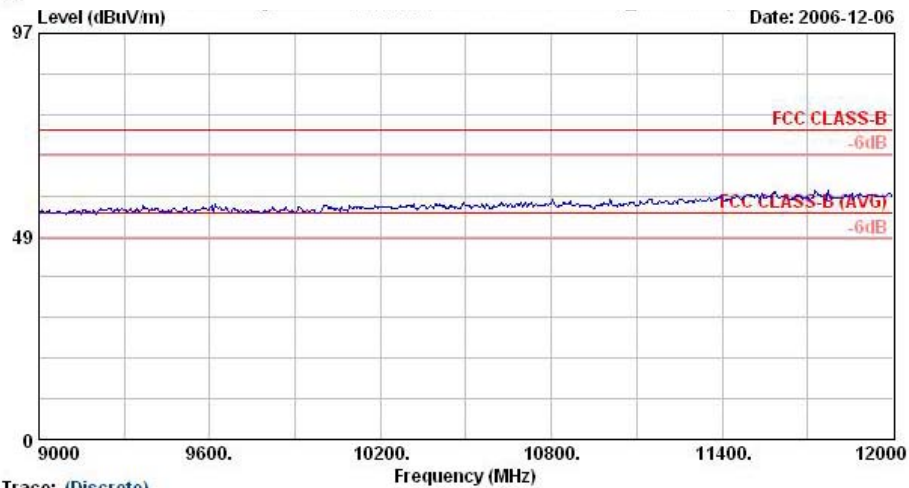
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78;2480MHz
Plane : E2
Data Rate : DH5



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78_2480MHz
Plane : E2
Data Rate : DHS



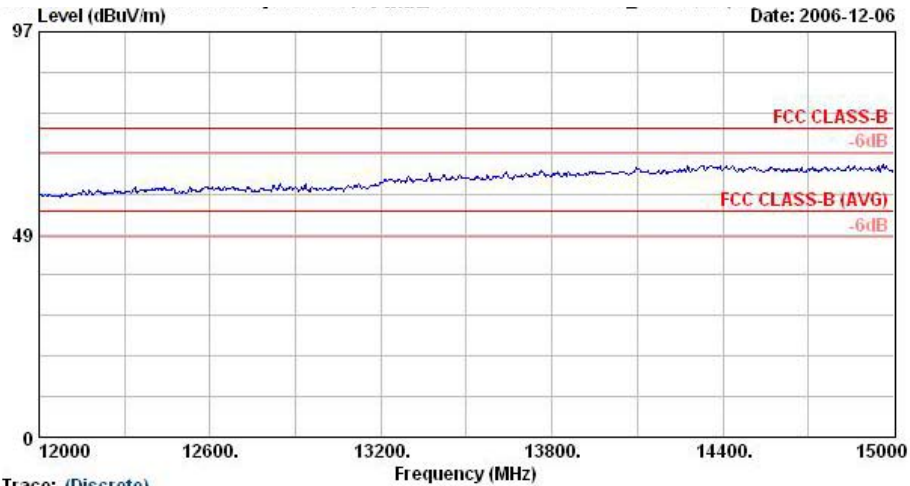
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78_2480MHz
Plane : E2
Data Rate : DHS



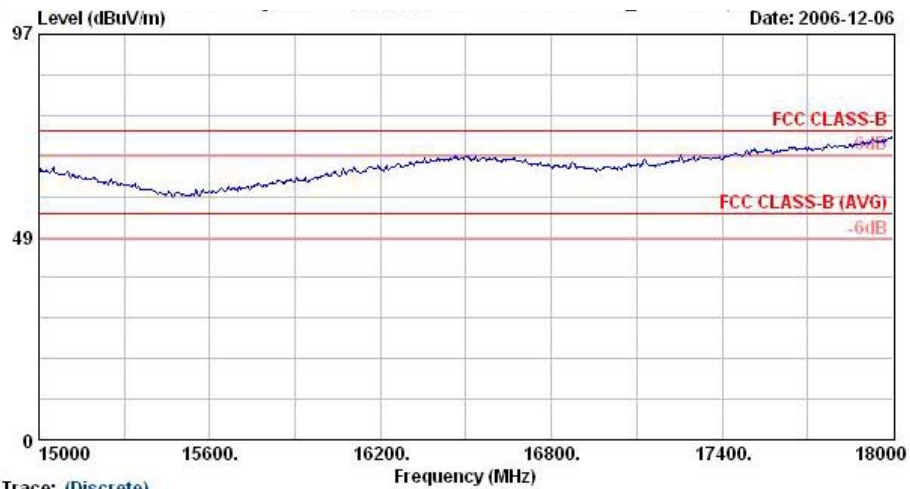
FCC TEST REPORT

Report No. : FR6N2811



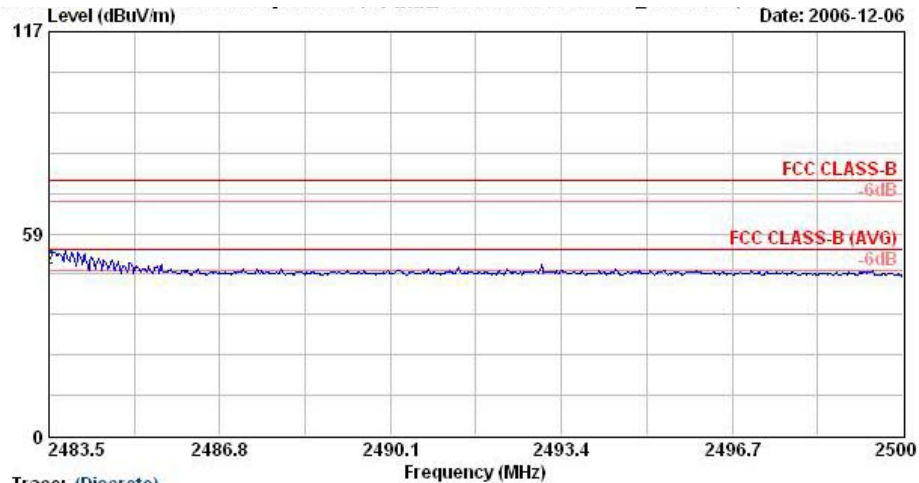
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78,2480MHz
Plane : E2
Data Rate : DHS



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx_CH78,2480MHz
Plane : E2
Data Rate : DHS



Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : Mobile Phone
Power : 120Wac/60Hz
Model : FR 6N2811
Mode : BT Tx CH78,2480MHz
Plane : E2
Data Rate : DH5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2483.5	53.47	-20.53	74.00	54.82	30.29	3.86	35.51	100	0 Peak
2 @	2483.5	48.49	-5.51	54.00	49.85	30.29	3.86	35.51	100	346 Average

Remark: There is no more obvious spurious emission except the listings above.



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 Chip Antenna for BT without antenna 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 Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Feb. 22, 2006	Feb. 22, 2007	Conduction (CO01-HY)
LISN	MessTec	NNB-2/16Z	2001/009	9kHz – 30MHz	Mar. 29, 2006	Mar. 29, 2007	Conduction (CO01-HY)
LISN (Support Unit)	MessTec	NNB-2/16Z	2001/004	9kHz – 30MHz	Apr. 19, 2006	Apr. 19, 2007	Conduction (CO01-HY)
EMI Filter	LINDGREN	LRE-2060	1004	< 450Hz	N/A	N/A	Conduction (CO01-HY)
EMI Filter	LINDGREN	N6006	201052	0 – 60Hz	N/A	N/A	Conduction (CO01-HY)
RF Cable-CON	Suhner Switzerland	RG223/U	CB029	9kHz – 30MHz	Dec. 22, 2005	Dec. 22, 2006	Conduction (CO01-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. 13, 2006	Jul. 12, 2007	Radiation (03CH06-HY)
Controller	INN-CO	CO2000	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Mar. 29, 2006	Mar. 28, 2007	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)
Turn Table	INN-CO	DS2000	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	INN-CO	MM3000	114/8000604/L	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)
Base Station Simulator	R & S	CMU200	106656	WCDMA	Nov. 20, 2006	Nov. 19, 2007	Radiation (05CH02-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	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
combined standard uncertainty Uc(y)	1.27		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.54		

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				