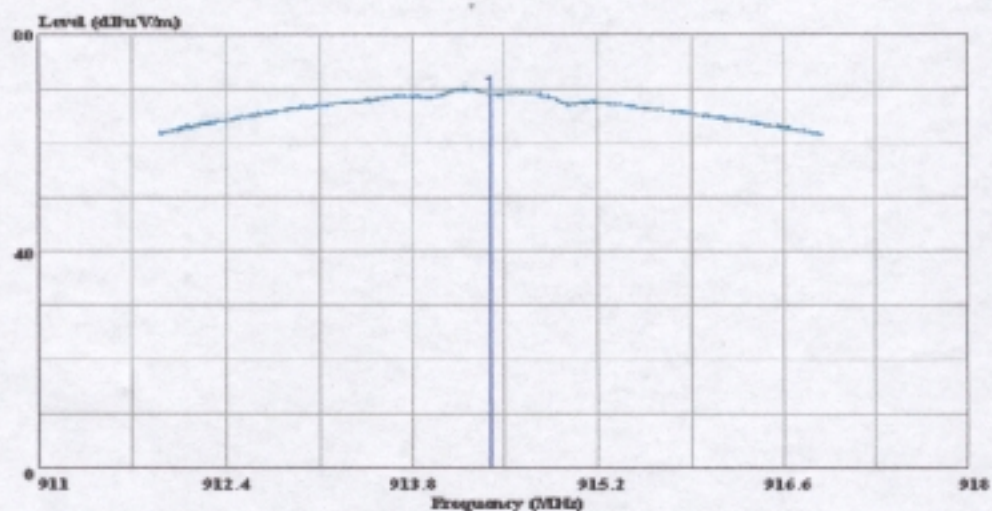




緯鑫科技有限公司 PEP Testing Laboratory

Data#: 2249 File#: E2000.emi

Date: 2001-05-28 Time: 16:40:16



Trace: 2248

Site : Chamber No.3(Jason Gong)-Linko Site
 Condition: 3m ANT.3M(V) VERTICAL
 out : F004U
 power : AC 115V / 60Hz
 memo : Peak Value
 : Channel 1: 914.4MHz
 : Part No. FE004
 : Test : E.I.R.P
 : RBW: 3MHz; VBW: 3MHz; Span: 5MHz

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor
			dB	dBuV/m	dBuV	dB	dB	dB
1	914.400	69.07	-----	-----	62.36	23.93	2.78	20.00

Level = 69.07

$$E(v/m) = 10^{(69.07/20)} \times 10^{-6} = 10^{3.3} \times 10^{-6} = 0.0032$$

$$E.I.R.P = [0.0032 \times 3]^2 / 30 = 0.092mw$$

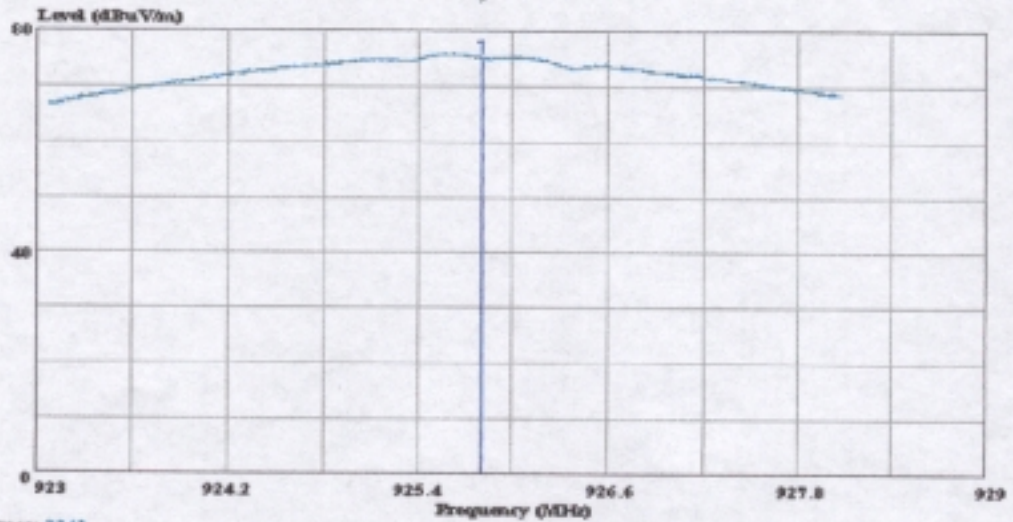
E.I.R.P = 0.092mw 且 < 1W 故 pass



緯鑫科技有限公司 PEP Testing Laboratory

Data#: 2243 File#: E2000.emi

Date: 2001-05-28 Time: 15:34:06



Trace: 2242

Site : Chamber No.3(Jason Gong)-Linko Site
Condition: 3m ANT.3M(H) HORIZONTAL
cut : F004U
power : AC 115V / 50Hz
memo : Peak Value
: Channel 1: 925.8MHz
: Part No. FE004
: Test : E.I.R.P
: RBW:3MHz;VBW:3MHz;Span:5MHz

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor
			dB	dBuV/m	dBuV	dB	dB	dB
1	925.803	75.25	-----	-----	68.09	24.39	2.77	20.00

Level = 75.25

$$E(v/m) = 10^{(75.25/20)} \times 10^{-6} = 10^{3.7625} \times 10^{-6} = 0.0063$$

$$E.I.R.P = [0.0063 \times 3]^2 / 30 = 0.012mw$$

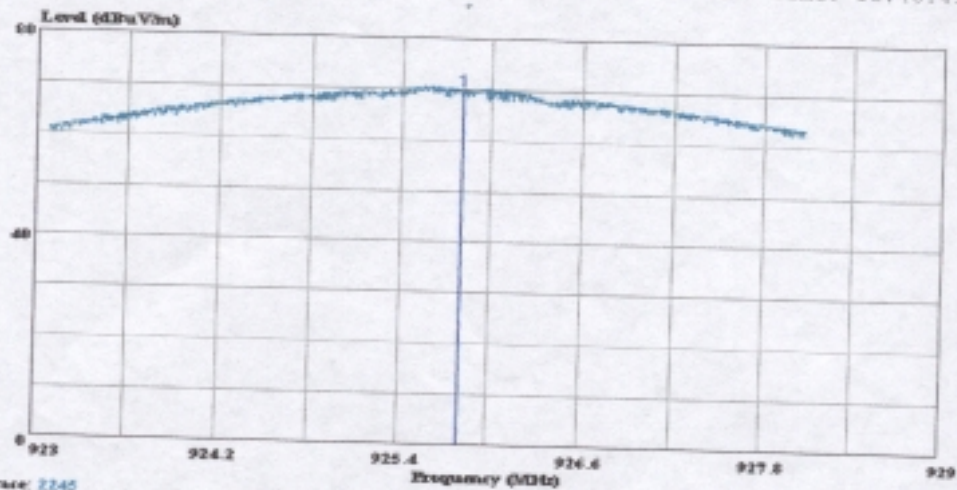
$$E.I.R.P = 0.012mw \quad \text{且} < 1W \text{ 故 pass}$$



緯鑫科技有限公司 PEP Testing Laboratory

Data#: 2246 File#: E2000.cml

Date: 2001-05-28 Time: 15:40:41



Trace: 2245
 Site : Chamber No.3 (Jason Gong) - Linko Site
 Condition: 3m ANT. 3M(V) VERTICAL
 eut : F004U
 power : AC 115V / 50Hz
 memo : Peak Value
 : Channel 20: 925.8MHz
 : Part No. FE004
 : Test : E.I.R.P.
 : RBW: 3MHz; VBW: 3MHz; Span: 5MHz

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	Freamp
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor
			dB	dBuV/m	dBuV	dB	dB	dB
1	925.803	69.78	-----	-----	62.62	24.39	2.77	20.00

Level = 69.78

$$E (v/m) = 10^{(69.78/20)} \times 10^{-6} = 10^{3.5} \times 10^{-6} = 0.0032$$

$$E.I.R.P = [0.0032 \times 3]^2 / 30 = 0.092mw$$

$$E.I.R.P = 0.092mw \quad \text{且} < 1W \text{ 故 pass}$$

4.4 Spurious Emissions Test

4.4.1 Test result of second harmonic

FCC ID : FU5FE004

EUT Model No. FE004

RBW = 100KHz , VBW = 100MHz , Span = 2.5MHz

Channel	Antenna Polarity (H/V)	Fundamental Frequency (MHz)	(1) Fundamental Level (dBuV/m)	2 nd Harmonic Frequency (GHz)	(2) 2 nd Harmonic Level (dBuV/m)	(3) Result (1) – (2) (dB)	(4) Limit (dB)
Top	H	904.2	73.38	1.808	48.02	25.36	20
	V		67.87		44.03	23.84	
Middle	H	914.4	73.94	1.828	45.74	28.20	20
	V		69.07		44.90	24.17	
Bottom	H	925.8	75.25	1.851	48.71	26.54	20
	V		69.78		44.85	24.93	

Note : column (3) must at least over 20 dB .

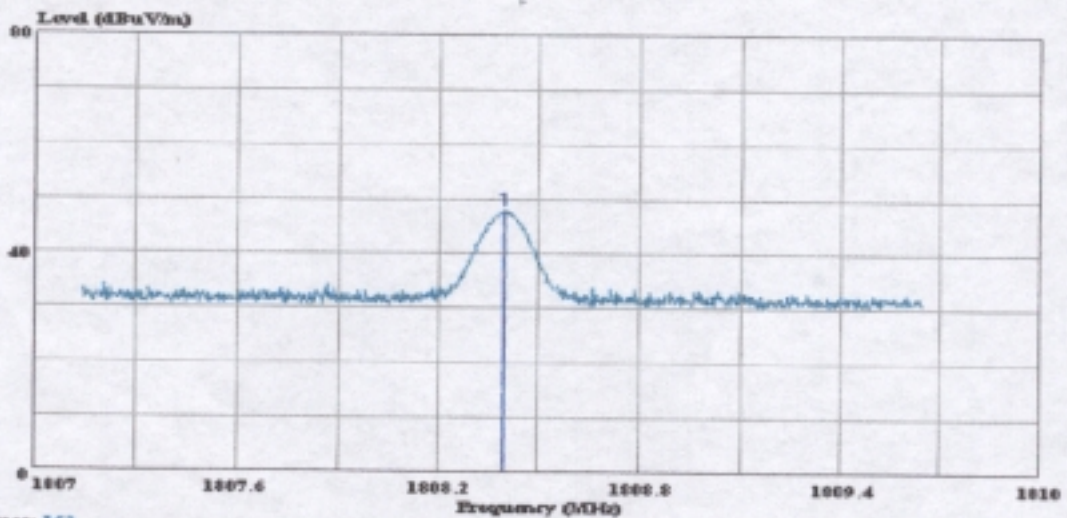
FCC ID : FU5FE004



緯鑫科技有限公司 PEP Testing Laboratory

Data#: 154 File#: 1g-5g.emi

Date: 2001-05-29 Time: 21:05:24



Trace: 153

Site : Chamber No.3(Jason Gong)-Linko Site
Condition: 3m HORN.3(H) HORIZONTAL
cut : F004U
power : AC 115V 60Hz
memo : Average Value
: Harmonic Test
: RBW:100KHz;VBW:100MHz;Span:2.5MHz
: Part No. FE004
: Channel 1 : 904.2*2=1808.4MHz

Page: 1

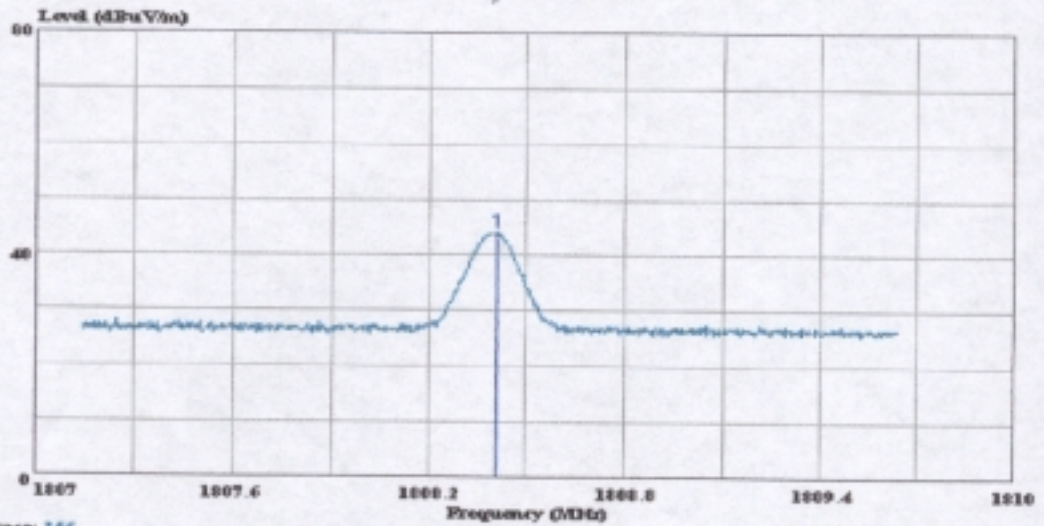
	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp
			Limit	Line		Factor		Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	1808.400	48.02	-----	-----	37.26	27.69	3.07	20.00



緯鑫科技有限公司 PEP Testing Laboratory

Data#: 156 File#: 1g-5g.emi

Date: 2001-05-29 Time: 21:12:23



Trace: 155

Site : Chamber No.3(Jason Gong)-Linko Site
 Condition: 3m HORN,3(V) VERTICAL
 eut : F004U
 power : AC 115V 60Hz
 memo : Average Value
 : Harmonic Test
 : RBW:100KHz;VBW:100MHz;Span:2.5MHz
 : Part No. FE004
 : Channel 1 : 904.2*2=1808.4MHz

Page: 1

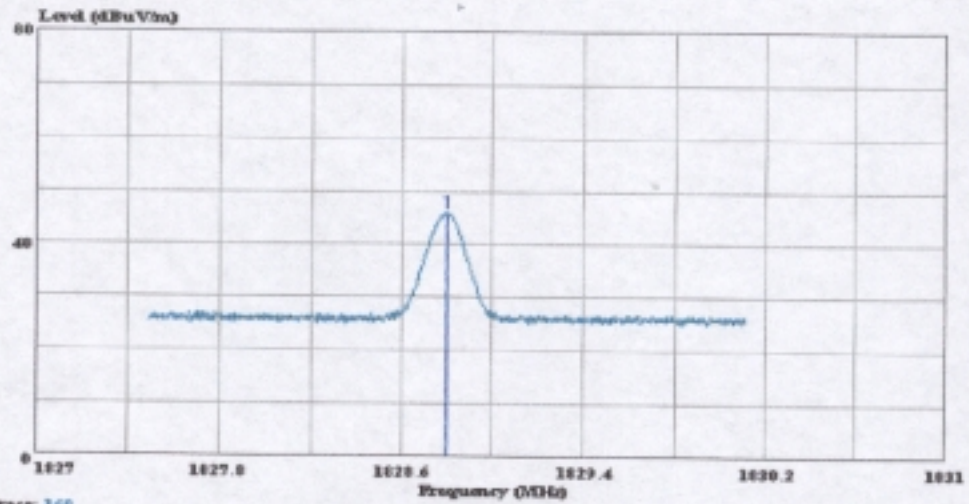
	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor
			dB	dBuV/m	dBuV	dB	dB	dB
1	1808.410	44.03	-----	-----	33.27	27.69	3.07	20.00



緯鑫科技有限公司 PEP Testing Laboratory

Data#: 161 File#: 1g-5g.emi

Date: 2001-05-29 Time: 21:37:34



Trace: 160

Site : Chamber No.3(Jason Gong)-Linko Site
 Condition: 3m HORN.3(H) HORIZONTAL
 eut : F004U
 power : AC 115V 60Hz
 memo : Average Value
 : Harmonic Test
 : RBW:100KHz;VBW:100MHz;Span:2.5MHz
 : Part No. FE004
 : Channel 1 : 914.4*2=1828.8MHz

Page: 1

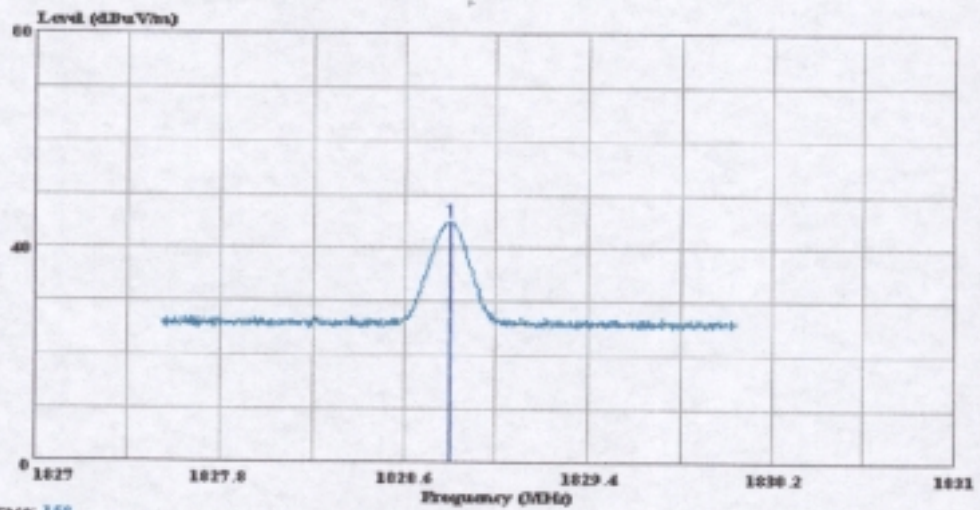
Freq	Level	Over	Limit	Read	Probe	Cable	Preamp
MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor
		dB	dBuV/m	dBuV	dB	dB	dB
1	1828.806	45.74	-----	34.82	27.77	3.15	20.00



緯鑫科技有限公司 PEP Testing Laboratory

Data#: 159 File#: 1g-5g.emi

Date: 2001-05-29 Time: 21:32:36



Trace: 158

Site : Chamber No.3(Jason Gong)-Linko Site
 Condition: 3m HORN.3(V) VERTICAL
 cut : F004U
 power : AC 115V 60Hz
 memo : Average Value
 : Harmonic Test
 : RBW:100KHz;VBW:100MHz;Span:2.5MHz
 : Part No. FE004
 : Channel 1 : 914.4*2=1828.8MHz

Page: 1

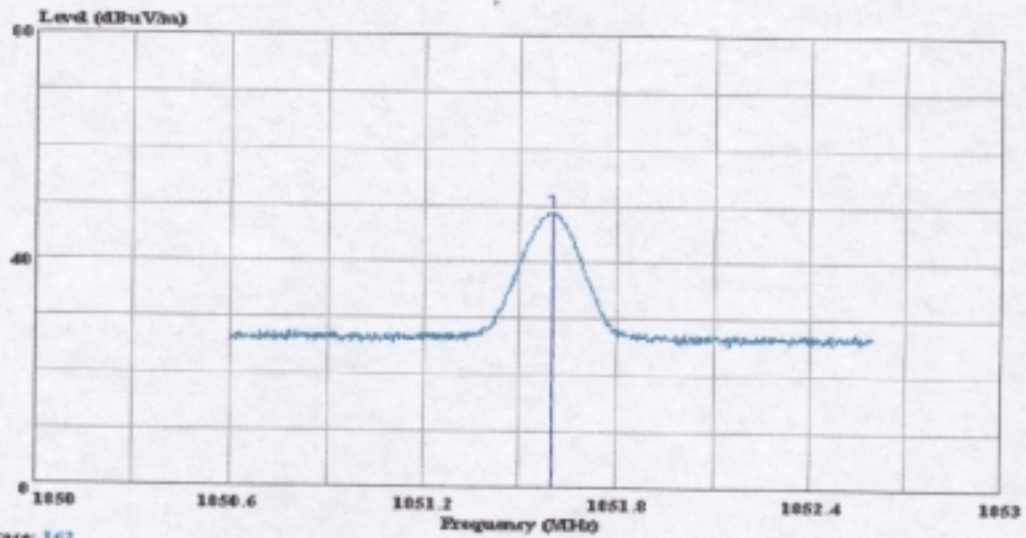
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	1828.800	44.90	-----	-----	33.98	27.77	3.15	20.00



緯鑫科技有限公司 PEP Testing Laboratory

Data#: 163 File#: 1g-5g.eml

Date: 2001-05-29 Time: 21:43:40



Trace: 162

Site : Chamber No.3 (Jason Gong)-Linko Site
 Condition: 3m HORN, 3(H) HORIZONTAL
 eut : F004U
 power : AC 115V 60Hz
 memo : Average Value
 : Harmonic Test
 : RBW:100KHz;VBW:100MHz;Span:2.5MHz
 : Part No. FE004
 : Channel 1 : 925.8*2=1851.6MHz

Page: 1

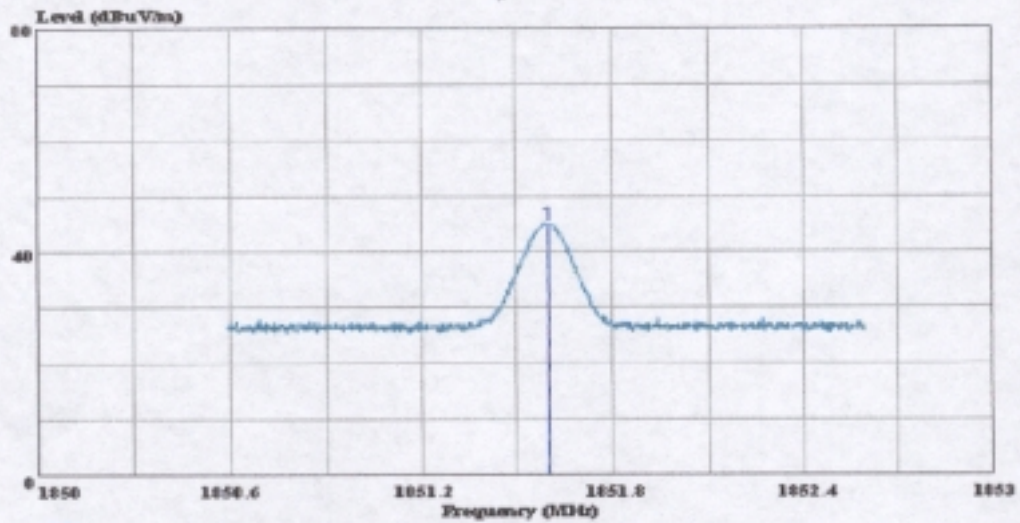
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	1851.601	48.71	-----	-----	37.62	27.85	3.24	20.00



緯鑫科技有限公司 PEP Testing Laboratory

Data#: 165 File#: 1g-5g.emi

Date: 2001-05-29 Time: 21:47:28



Trace: 164

Site : Chamber No.3(Jason Gong)-Linko Site
 Condition: 3m HORN,3[V] VERTICAL
 eut : F004U
 power : AC 115V 60Hz
 memo : Average Value
 : Harmonic Test
 : RBW:100KHz;VBW:100MHz;Span:2.5MHz
 : Part No. FE004
 : Channel 1 : 925.8*2=1851.6MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	1851.601	44.85	-----	-----	33.76	27.85	3.24	20.00

4.4.2 Test result of spurious radiated emissions

FCC ID : FU5FE004

EUT System: FE004 (EUT) + FB004 + Mobile Phone**RADIATED EMISSIONS TEST DATA****Antenna polarization : HORIZONTAL ; Test distance : 3 m ;**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
105.660	27.92	-38.12	66.04	37.35	10.39	0.18	20.00
307.420	40.66	-25.38	66.04	45.00	14.50	1.16	20.00
345.250	42.91	-23.13	66.04	47.26	14.70	0.95	20.00
364.650	46.58	-19.46	66.04	50.90	14.82	0.86	20.00
384.050	45.38	-20.66	66.04	49.53	15.08	0.77	20.00
481.050	47.17	-18.87	66.04	47.79	17.93	1.45	20.00
498.510	48.41	-17.63	66.04	49.69	17.14	1.58	20.00
518.880	49.07	-16.97	66.04	49.96	17.49	1.62	20.00
528.580	46.71	-19.33	66.04	47.32	17.76	1.63	20.00
538.280	49.25	-16.79	66.04	49.53	18.08	1.64	20.00
547.010	48.43	-17.61	66.04	48.41	18.37	1.65	20.00
547.010	48.43	-17.61	66.04	48.41	18.37	1.65	20.00
566.410	48.09	-17.95	66.04	47.19	19.23	1.67	20.00
576.110	45.95	-20.09	66.04	44.59	19.68	1.68	20.00
585.810	47.03	-19.01	66.04	45.32	20.02	1.69	20.00
604.240	43.92	-22.12	66.04	41.62	20.60	1.70	20.00
624.610	44.29	-21.75	66.04	41.59	21.00	1.70	20.00
662.440	43.82	-22.22	66.04	40.79	21.33	1.70	20.00
700.270	45.00	-21.04	66.04	41.61	21.70	1.69	20.00
719.670	45.22	-20.82	66.04	41.91	21.70	1.61	20.00
740.040	44.30	-21.74	66.04	40.49	22.28	1.53	20.00
777.870	42.44	-23.60	66.04	38.19	22.46	1.79	20.00
923.370	86.04			79.01	24.26	2.77	20.00

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line
3. All the other frequencies from 30MHz to 9.3GHz are under the limits more than 20dB

EUT System: FE004 (EUT) + FB004 + Mobile Phone**RADIATED EMISSIONS TEST DATA****Antenna polarization : VERTICAL ; Test distance : 3 m ;**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
105.660	24.34	-35.15	59.49	33.77	10.39	0.18	20.00
481.050	39.91	-19.58	59.49	40.53	17.93	1.45	20.00
498.510	39.27	-20.22	59.49	40.55	17.14	1.58	20.00
518.880	40.77	-18.72	59.49	41.66	17.49	1.62	20.00
538.280	39.47	-20.02	59.49	39.75	18.08	1.64	20.00
547.010	39.82	-19.67	59.49	39.80	18.37	1.65	20.00
556.710	39.78	-19.71	59.49	39.35	18.77	1.66	20.00
585.810	40.58	-18.91	59.49	38.87	20.02	1.69	20.00
604.240	40.44	-19.05	59.49	38.14	20.60	1.70	20.00
624.610	40.56	-18.93	59.49	37.86	21.00	1.70	20.00
662.440	39.63	-19.86	59.49	36.60	21.33	1.70	20.00
682.810	39.41	-20.08	59.49	35.75	21.96	1.70	20.00
700.270	39.69	-19.80	59.49	36.30	21.70	1.69	20.00
719.670	39.73	-19.76	59.49	36.42	21.70	1.61	20.00
757.500	38.53	-20.96	59.49	34.40	22.53	1.60	20.00
918.520	79.49			72.66	24.05	2.78	20.00

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line
3. All the other frequencies from 30MHz to 9.3GHz are under the limits more than 20dB

EUT System: Charging Mode for FE004**RADIATED EMISSIONS TEST DATA**

Antenna polarization : HORIZONTAL ; Test distance : 3 m ;

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
44.550	28.84	-28.48	57.32	35.60	13.14	0.10	20.00
154.160	32.59	-24.73	57.32	38.24	14.14	0.21	20.00
211.390	35.01	-22.31	57.32	42.64	11.42	0.95	20.00
230.790	41.04	-16.28	57.32	48.18	11.84	1.02	20.00
250.190	40.23	-17.09	57.32	47.83	11.30	1.10	20.00
268.620	37.21	-20.11	57.32	42.80	13.27	1.14	20.00
288.020	34.71	-22.61	57.32	39.27	14.26	1.18	20.00
307.420	40.00	-17.32	57.32	44.34	14.50	1.16	20.00
326.820	40.88	-16.44	57.32	45.13	14.70	1.05	20.00
624.610	34.98	-22.34	57.32	32.28	21.00	1.70	20.00
924.340	77.32			70.25	24.30	2.77	20.00

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line
3. All the other frequencies from 30MHz to 9.3GHz are under the limits more than 20dB

EUT System: Charging Mode for FE004**RADIATED EMISSIONS TEST DATA****Antenna polarization : VERTICAL ; Test distance : 3 m ;**

Freq. (MHz)	Level (dB)	Over Limit (dB)	Limit Line (dB)	Read Level (dB)	Probe Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)
42.610	35.63	-19.42	55.05	42.31	13.22	0.10	20.00
182.290	32.48	-22.57	55.05	39.54	12.22	0.72	20.00
191.990	32.33	-22.72	55.05	40.13	11.38	0.82	20.00
230.790	36.68	-18.37	55.05	43.82	11.84	1.02	20.00
250.190	32.56	-22.49	55.05	40.16	11.30	1.10	20.00
268.620	34.95	-20.10	55.05	40.54	13.27	1.14	20.00
288.020	36.13	-18.92	55.05	40.69	14.26	1.18	20.00
307.420	35.96	-19.09	55.05	40.30	14.50	1.16	20.00
326.820	35.52	-19.53	55.05	39.77	14.70	1.05	20.00
346.220	30.09	-24.96	55.05	34.44	14.70	0.95	20.00
604.240	32.67	-22.38	55.05	30.37	20.60	1.70	20.00
923.370	75.05			68.02	24.26	2.77	20.00

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line
3. All the other frequencies from 30MHz to 9.3GHz are under the limits more than 20dB

4.4.3 Radiate Emission Testing Photo.

FCC ID : FU5FE004

EUT System: FE004 (EUT) + FB004 + Mobile Phone

< FRONT VIEW >



< REAR VIEW >

