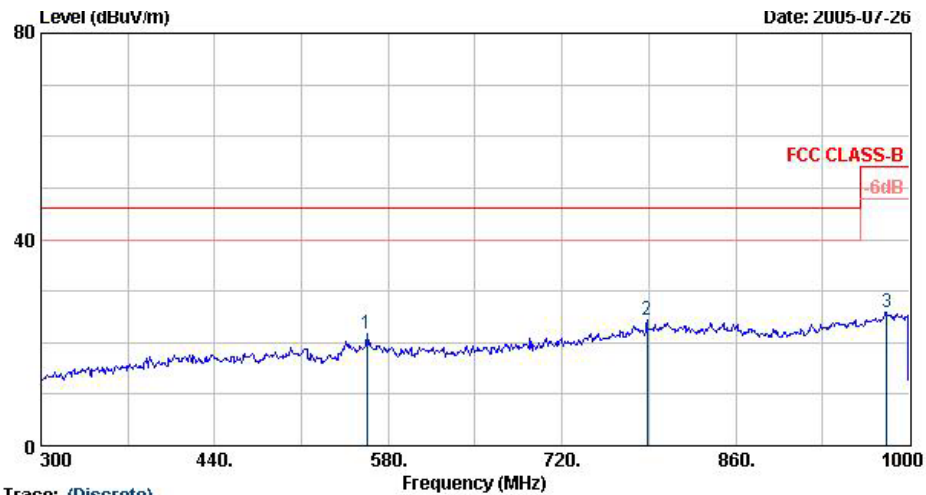




Trace: (Discrete)

Site : 03CH06-HY
Condition : FCC CLASS-B 3m BI-LOG-2004-1122 VERTICAL
EUT : GSM Tri Band Mobile Phone
Power : 120Vac/60Hz (P925BW05050EB71)
Model : FD572116
Memo : PCS1900 Idle Mode+Camera+Earphone

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	562.50	21.78	-24.22	46.00	30.02	18.50	30.66	3.92	100	0
2 @	788.60	24.25	-21.75	46.00	28.02	21.57	30.15	4.81	100	0
3 @	981.80	25.97	-28.03	54.00	27.71	22.41	30.23	6.08	100	0
										Peak
										Peak
										Peak

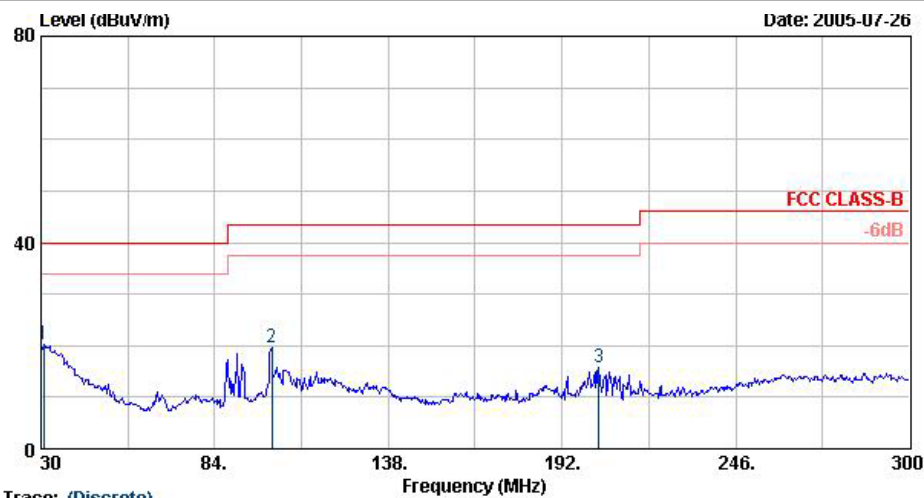
Test Engineer :

Jay

6.4.3 Test Mode: Mode 3

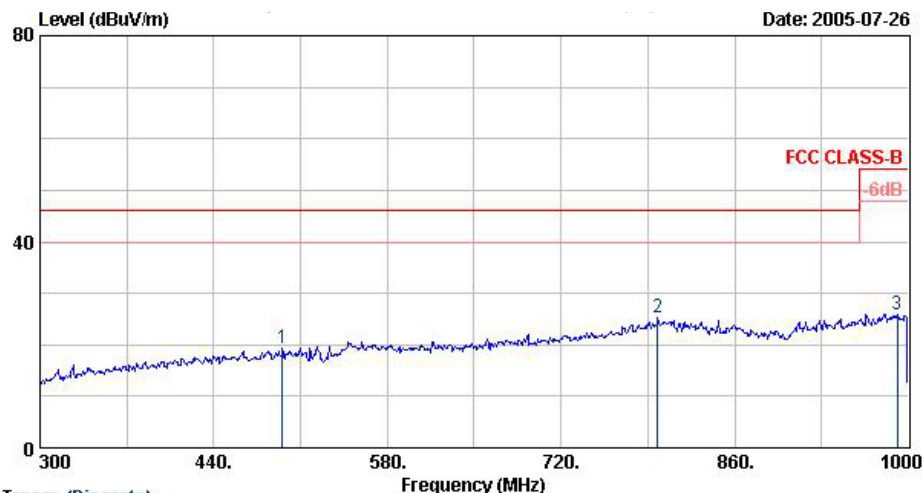
- Frequency Range of Test: from 30 MHz to 25000 MHz
- Test Distance: 3m
- Temperature: 28°C
- Relative Humidity: 58%
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

■ The test that passed at the minimum margin was marked by a frame in the following data



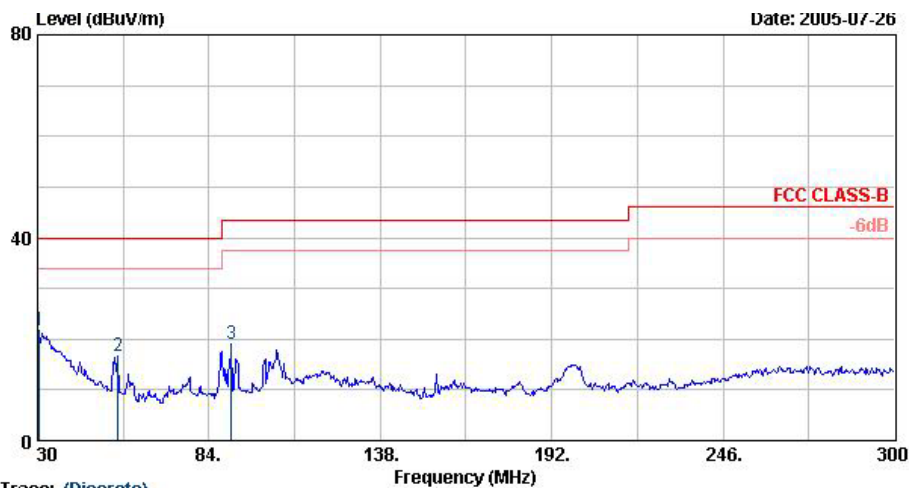
Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m BI-LOG-2004-1122 HORIZONTAL
 EUT : GSM Tri Band Mobile Phone
 Power : Car Charger 12Vdc
 Model : FD572116
 Memo : PCS1900 Idle Mode+Camera+Earphone

	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	30.81	20.34	-19.66	40.00	32.57	18.40	31.52	0.89	400	0	Peak
2 @	101.82	19.59	-23.91	43.50	39.08	10.69	31.24	1.07	400	0	Peak
3 @	203.34	15.83	-27.67	43.50	35.35	9.85	31.35	1.99	400	0	Peak


Trace: (Discrete)

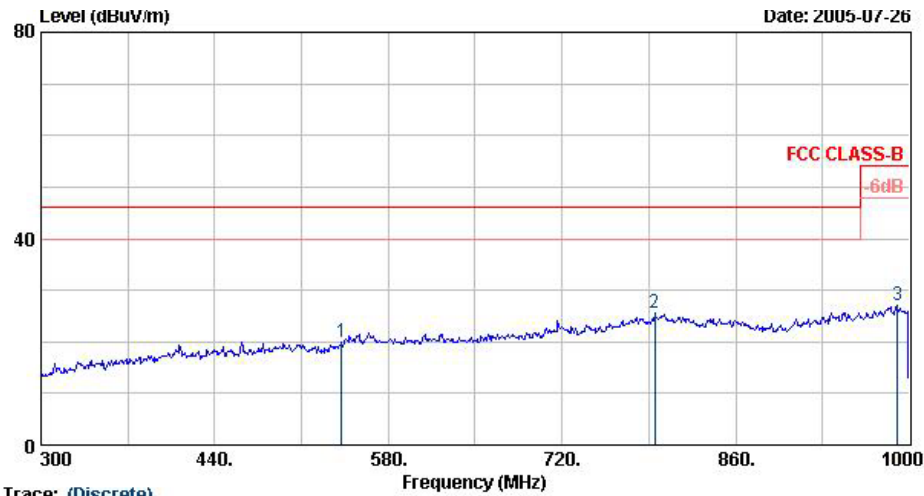
Site : 03CH06-HY
Condition : FCC CLASS-B 3m BI-LOG-2004-1122 HORIZONTAL
EUT : GSM Tri Band Mobile Phone
Power : Car Charger 12Vdc
Model : FD572116
Memo : PCS1900 Idle Mode+Camera+Earphone

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	495.30	19.37	-26.63	46.00	29.32	17.10	30.48	3.42	100	0 Peak
2 @	797.70	25.30	-20.70	46.00	28.74	21.82	30.14	4.88	100	0 Peak
3 @	990.90	25.86	-28.14	54.00	27.38	22.71	30.37	6.15	100	0 Peak


Trace: (Discrete)

Site : 03CH06-HY
Condition : FCC CLASS-B 3m BI-LOG-2004-1122 VERTICAL
EUT : GSM Tri Band Mobile Phone
Power : Car Charger 12Vdc
Model : FD572116
Memo : PCS1900 Idle Mode+Camera+Earphone

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	30.54	21.56	-18.44	40.00	33.80	18.40	31.52	0.89	400	0 Peak
2 @	55.38	16.68	-23.32	40.00	38.92	8.18	31.44	1.02	400	0 Peak
3 @	91.02	19.18	-24.32	43.50	40.45	9.18	31.52	1.07	400	0 Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : FCC CLASS-B 3m BI-LOG-2004-1122 VERTICAL
EUT : GSM Tri Band Mobile Phone
Power : Car Charger 12Vdc
Model : FD572116
Memo : PCS1900 Idle Mode+Camera+Earphone

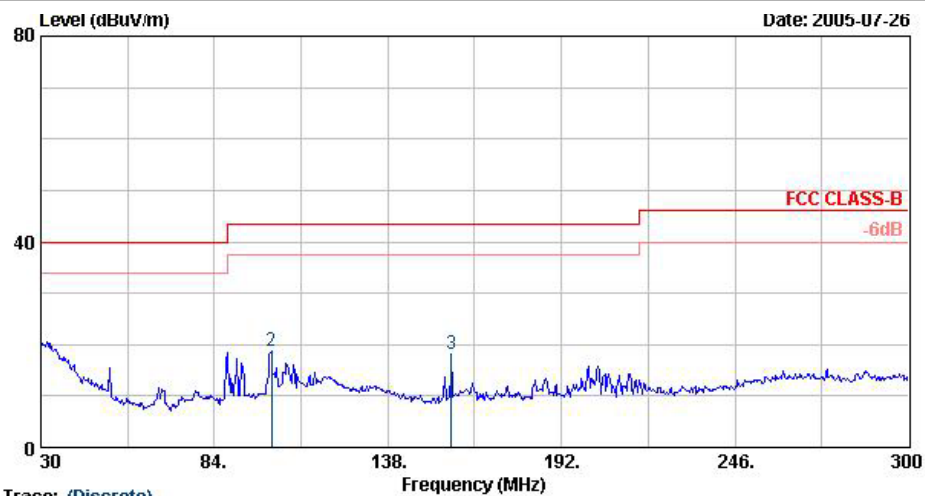
	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	542.20	20.01	-25.99	46.00	29.20	17.02	29.99	3.78	100	0	Peak
2 @	794.90	25.58	-20.42	46.00	29.11	21.76	30.15	4.86	100	0	Peak
3 @	990.20	26.96	-27.04	54.00	28.48	22.68	30.34	6.14	100	0	Peak

Test Engineer : 
Jay

6.4.4 Test Mode: Mode 4

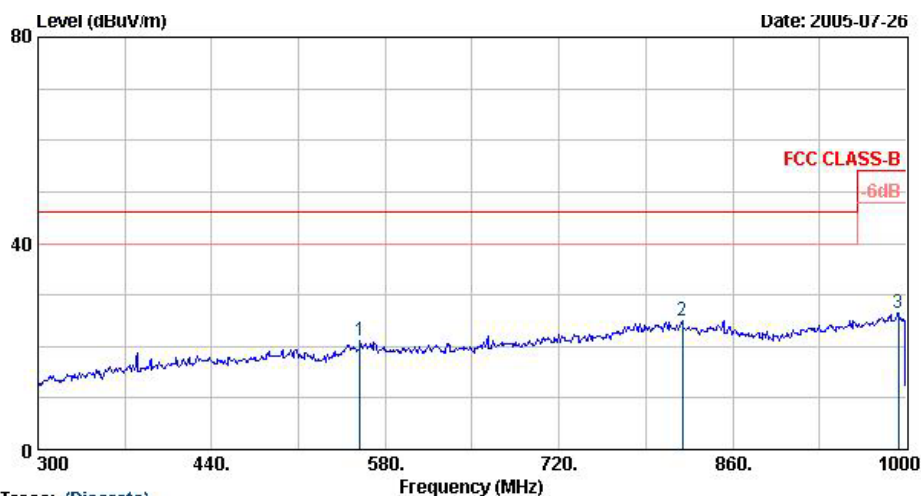
- Frequency Range of Test: from 30 MHz to 25000 MHz
- Test Distance: 3m
- Temperature: 28°C
- Relative Humidity: 58%
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

■ The test that passed at the minimum margin was marked by a frame in the following data



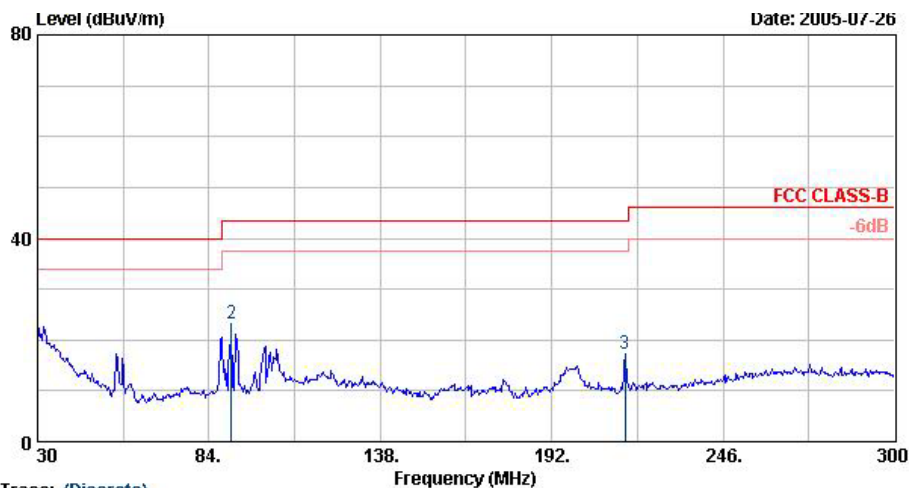
Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m BI-LOG-2004-1122 HORIZONTAL
 EUT : GSM Tri Band Mobile Phone
 Power : Car Charger 24Vdc
 Model : FD572116
 Memo : PCS1900 Idle Mode+Camera+Earphone

	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	30.00	20.67	-19.33	40.00	32.55	18.73	31.49	0.88	400	0	Peak
2 @	101.82	18.74	-24.76	43.50	38.23	10.69	31.24	1.07	400	0	Peak
3 @	157.71	18.25	-25.25	43.50	38.13	10.08	31.62	1.67	400	0	Peak


Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m BI-LOG-2004-1122 HORIZONTAL
 EUT : GSM Tri Band Mobile Phone
 Power : Car Charger 24Vdc
 Model : FD572116
 Memo : PCS1900 Idle Mode+Camera+Earphone

	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	559.70	21.03	-24.97	46.00	29.22	18.55	30.65	3.90	100	0	Peak
2 @	819.40	24.89	-21.11	46.00	28.70	21.52	30.29	4.96	100	0	Peak
3 @	993.70	26.59	-27.41	54.00	28.09	22.79	30.45	6.16	100	0	Peak


Trace: (Discrete)

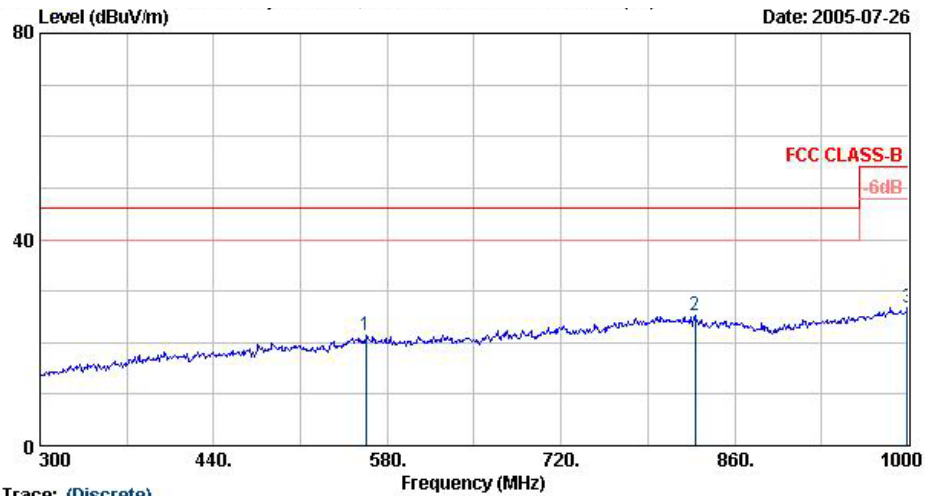
Site : 03CH06-HY
 Condition : FCC CLASS-B 3m BI-LOG-2004-1122 VERTICAL
 EUT : GSM Tri Band Mobile Phone
 Power : Car Charger 24Vdc
 Model : FD572116
 Memo : PCS1900 Idle Mode+Camera+Earphone

	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	30.00	23.21	-16.79	40.00	35.10	18.73	31.49	0.88	400	0	Peak
2 @	91.02	23.32	-20.18	43.50	44.59	9.18	31.52	1.07	400	0	Peak
3 @	215.22	17.13	-26.37	43.50	36.74	9.60	31.29	2.08	400	0	Peak



TEST REPORT

Report No. : FD572116



Trace: (Discrete)

Site : 03CH06-HY
Condition : FCC CLASS-B 3m BI-LOG-2004-1122 VERTICAL
EUT : GSM Tri Band Mobile Phone
Power : Car Charger 24Vdc
Model : FD572116
Memo : PCS1900 Idle Mode+Camera+Earphone

	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	Remark
1 @	562.50	21.55	-24.45	46.00	29.79	18.50	30.66	3.92	100	0	Peak
2 @	827.80	25.24	-20.76	46.00	29.34	21.37	30.44	4.98	100	0	Peak
3 @	999.30	26.73	-27.27	54.00	28.18	22.94	30.60	6.20	100	0	Peak

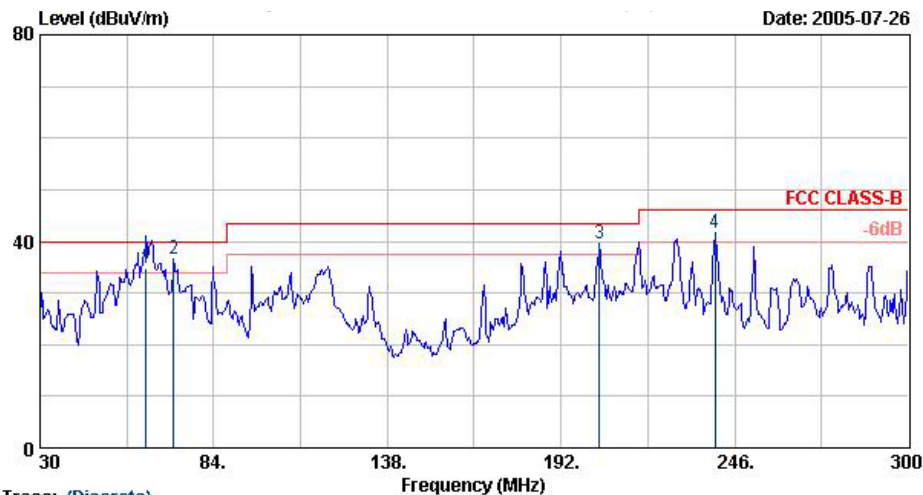
Test Engineer :

Jay

6.4.5 Test Mode: Mode 5

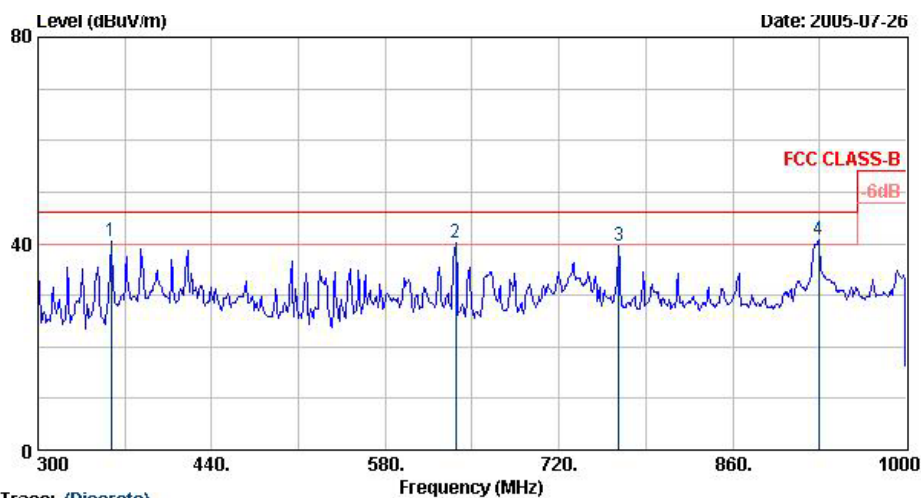
- Frequency Range of Test: from 30 MHz to 25000 MHz
- Test Distance: 3m
- Temperature: 28°C
- Relative Humidity: 58%
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

The test that passed at the minimum margin was marked by a frame in the following data



Site : 03CH06-HY
 Condition : FCC CLASS-B 3m BI-LOG-2004-1122 HORIZONTAL
 EUT : GSM Tri Band Mobile Phone
 Power : Real battery
 Model : FD572116
 Memo : PCS1900 Idle Mode+USB Link+Earphone

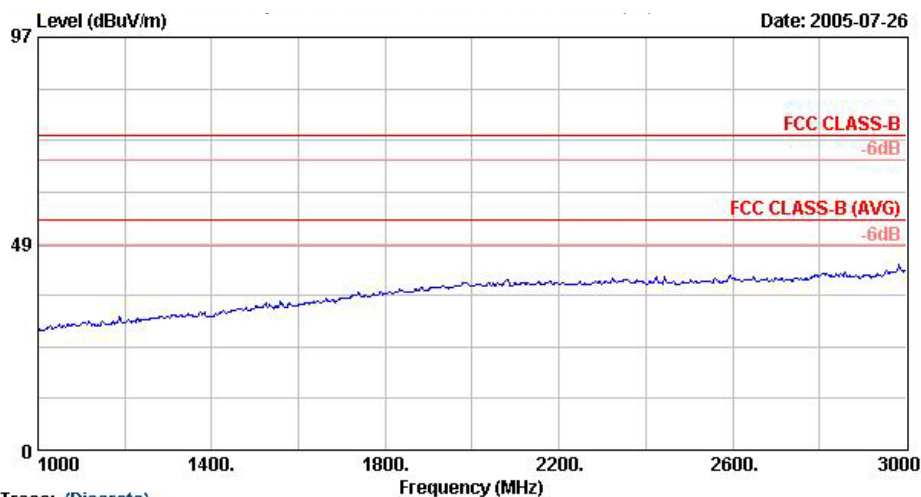
	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	62.94	34.67	-5.33	40.00	58.49	6.48	31.46	1.16	169	1	QP
2 @	71.58	36.61	-3.39	40.00	60.63	6.41	31.62	1.20	400	0	Peak
3 @	203.88	39.58	-3.92	43.50	59.10	9.85	31.35	1.99	400	0	Peak
4 @	239.79	41.58	-4.42	46.00	59.62	10.94	31.20	2.22	400	0	Peak



Trace: (Discrete)

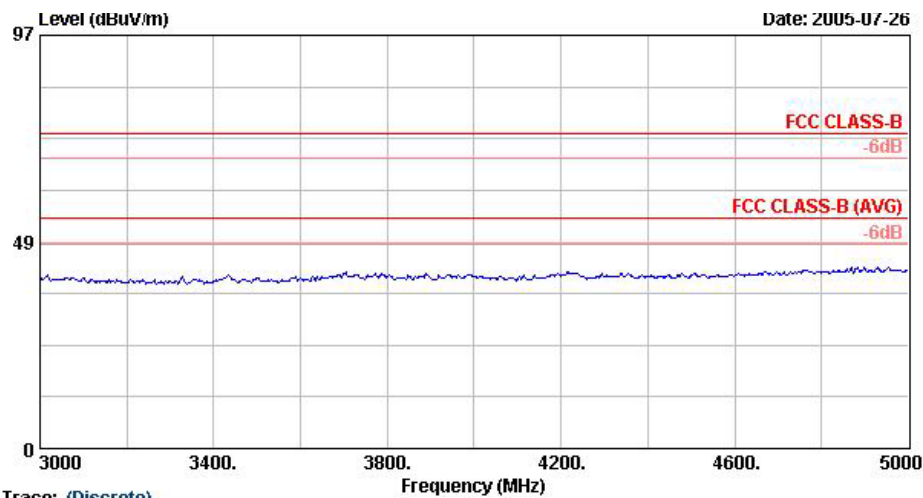
Site : 03CH06-HY
 Condition : FCC CLASS-B 3m BI-LOG-2004-1122 HORIZONTAL
 EUT : GSM Tri Band Mobile Phone
 Power : Real battery
 Model : FD572116
 Memo : PCS1900 Idle Mode+USB Link+Earphone

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1 @	358.80	40.45	-5.55	46.00	53.78	14.68	30.78	2.77	100	0 Peak
2 @	636.70	40.26	-5.74	46.00	48.28	18.34	30.60	4.24	100	0 Peak
3 @	768.30	39.63	-6.37	46.00	44.49	20.98	30.48	4.64	100	0 Peak
4 @	929.30	40.60	-5.40	46.00	44.10	20.82	30.12	5.80	100	0 Peak



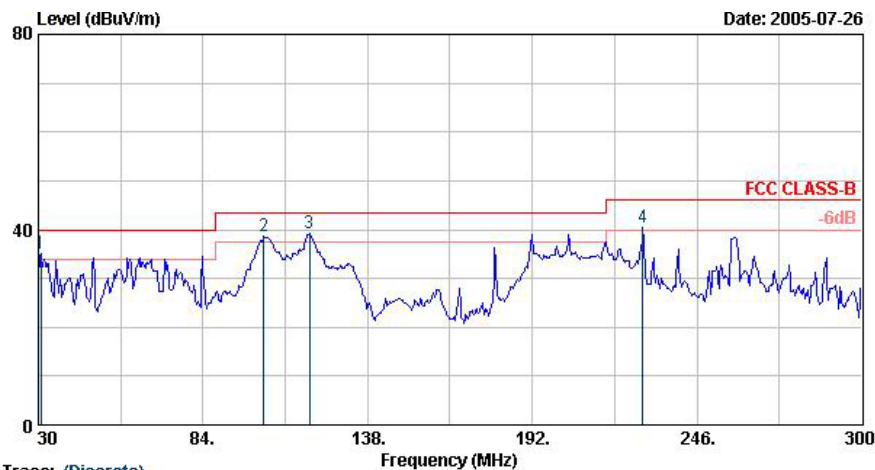
Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m HF-ANT-071025-940201 HORIZONTAL
 EUT : GSM Tri Band Mobile Phone
 Power : Real battery
 Model : FD572116
 Memo : PCS1900 Idle Mode+USB Link+Earphone



Trace: (Discrete)

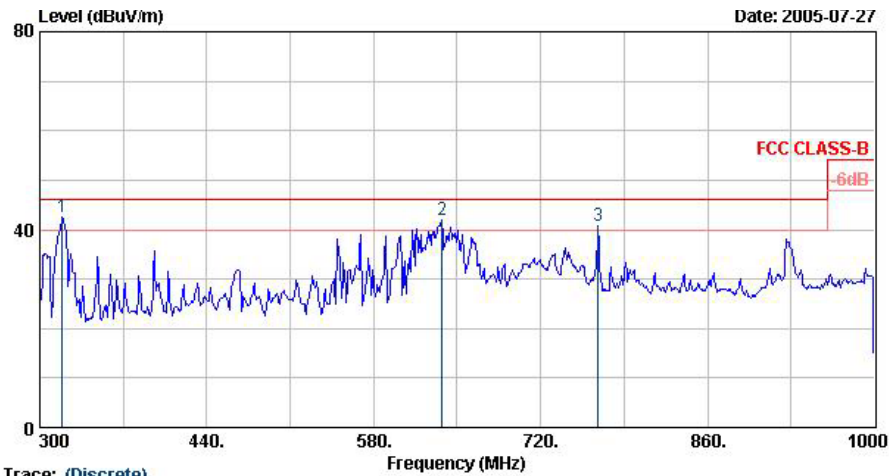
Site : 03CH06-HY
 Condition : FCC CLASS-B 3m HF-ANT-071025-940201 HORIZONTAL
 EUT : GSM Tri Band Mobile Phone
 Power : Real battery
 Model : FD572116
 Memo : PCS1900 Idle Mode+USB Link+Earphone



Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m BI-LOG-2004-1122 VERTICAL
 EUT : GSM Tri Band Mobile Phone
 Power : Real battery
 Model : FD572116
 Memo : PCS1900 Idle Mode+USB Link+Earphone

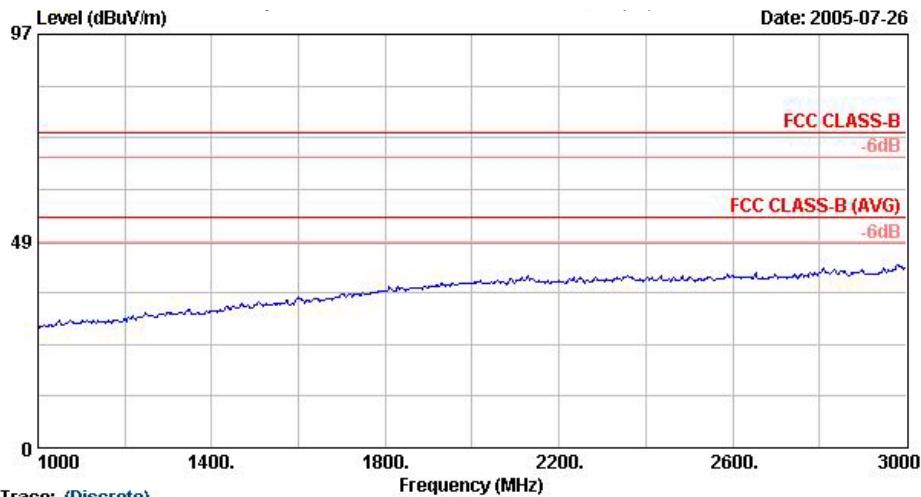
	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1 @	30.81	35.07	-4.93	40.00	47.30	18.40	31.52	0.89	400	0 Peak
2 @	103.98	38.51	-4.99	43.50	57.65	10.91	31.16	1.11	400	0 Peak
3 @	118.83	39.20	-4.30	43.50	56.59	12.72	31.55	1.45	400	0 Peak
4 @	228.18	40.37	-5.63	46.00	59.37	10.08	31.25	2.17	400	0 Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m BI-LOG-2004-1122 VERTICAL
 EUT : GSM Tri Band Mobile Phone
 Power : Real battery
 Model : FD572116
 Memo : PCS1900 Idle Mode+USB Link+Earphone

	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	318.90	42.60	-3.40	46.00	57.41	13.51	30.93	2.61	100	0	Peak
2 @	637.40	41.92	-4.08	46.00	49.90	18.35	30.58	4.25	100	0	Peak
3 @	768.30	40.67	-5.33	46.00	45.52	20.98	30.48	4.64	100	0	Peak



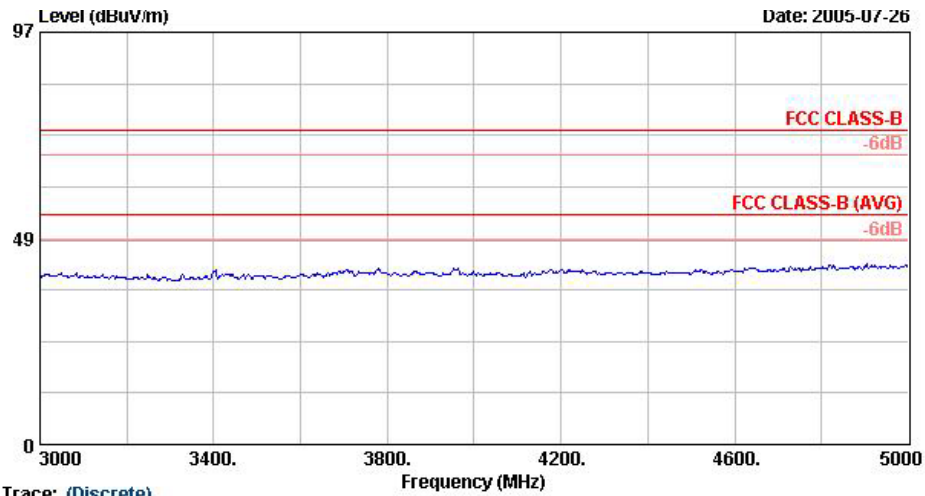
Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m HF-ANT-071025-940201 VERTICAL
 EUT : GSM Tri Band Mobile Phone
 Power : Real battery
 Model : FD572116
 Memo : PCS1900 Idle Mode+USB Link+Earphone



TEST REPORT

Report No. : FD572116



Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT-071025-940201 VERTICAL
EUT : GSM Tri Band Mobile Phone
Power : Real battery
Model : FD572116
Memo : PCS1900 Idle Mode+USB Link+Earphone

Remark: The spurious emission above 5GHz is too low to be taken.

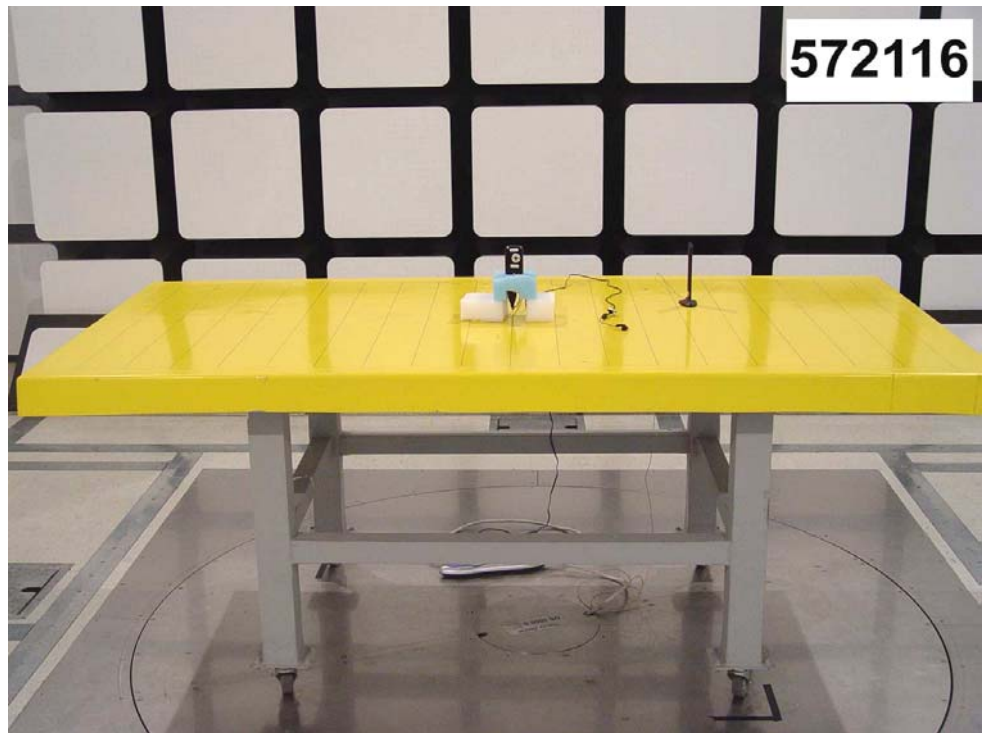
Test Engineer :


Jay

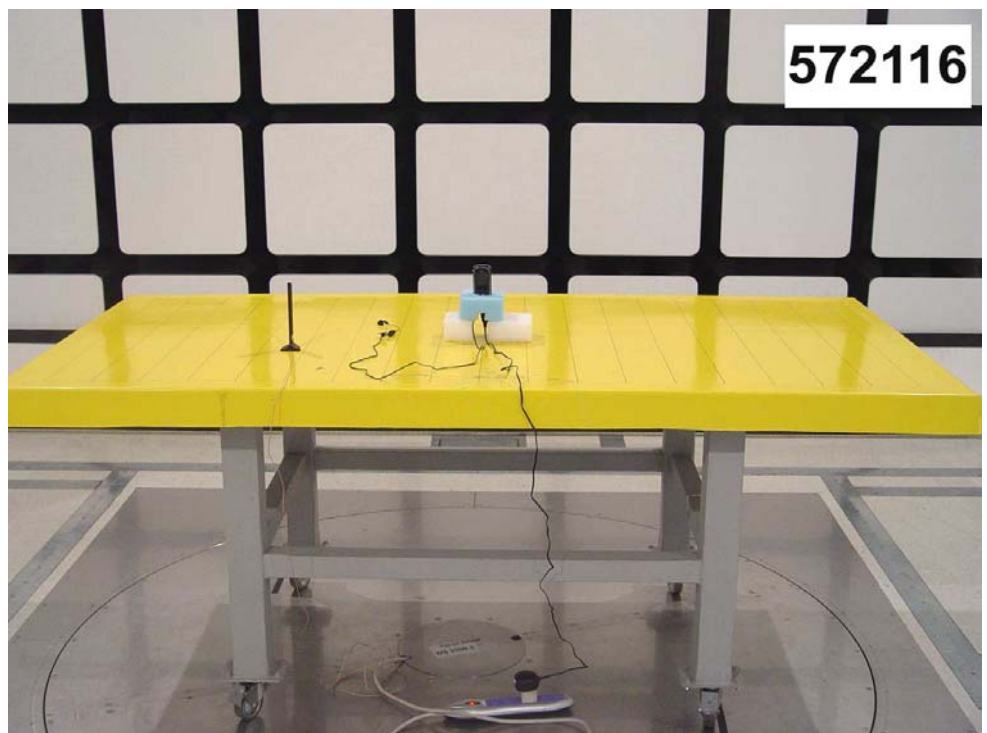
6.5 Photographs of Radiated Emission Test Configuration

Mode 1~2

FRONT VIEW

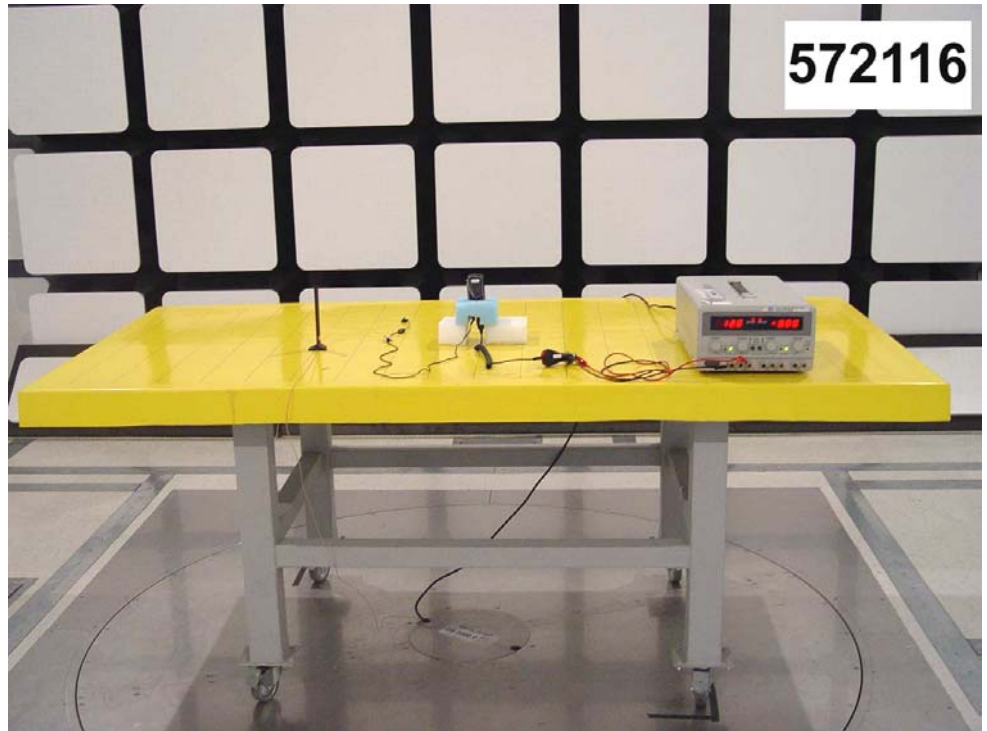


REAR VIEW

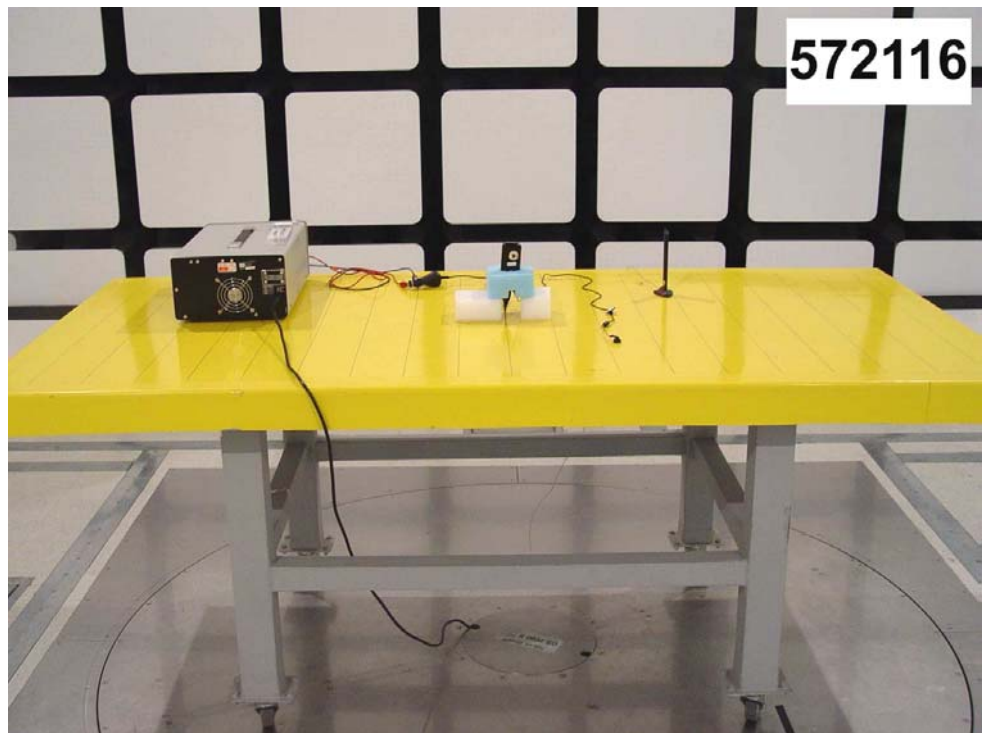


Mode 3~4

FRONT VIEW

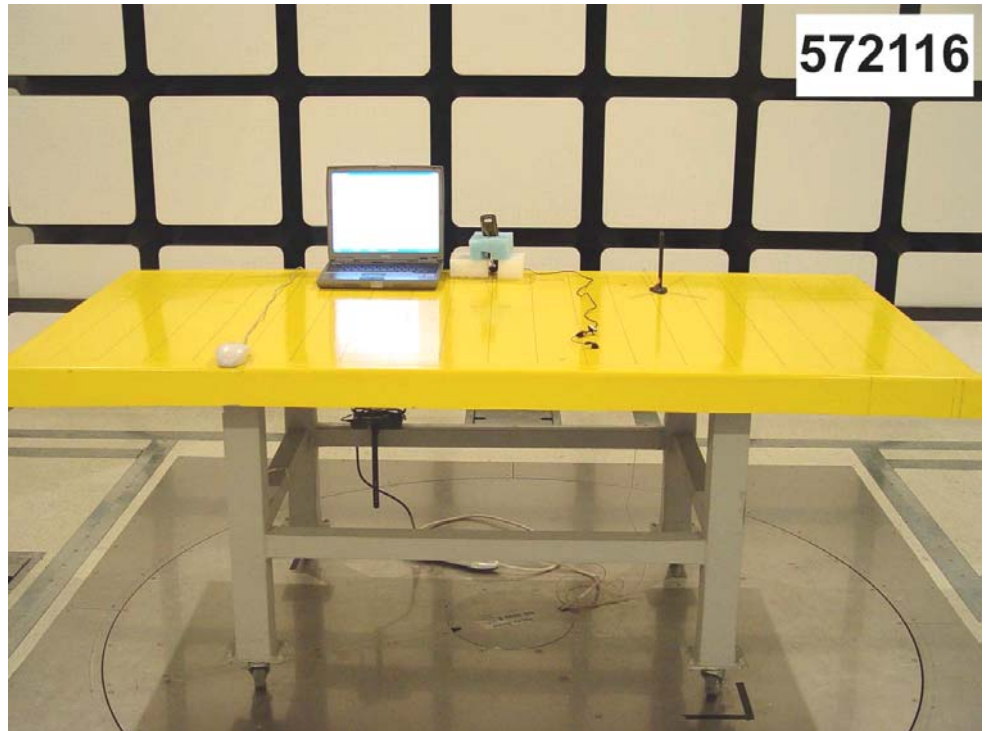


REAR VIEW

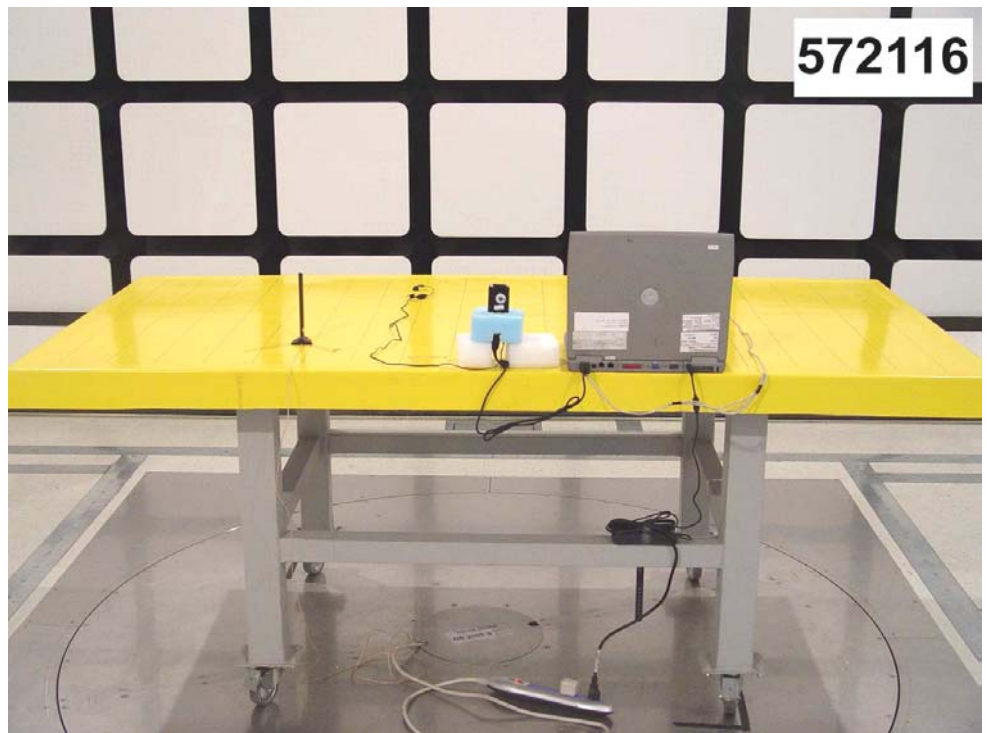


Mode 5

FRONT VIEW



REAR VIEW



7. List of Measuring Equipment Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Feb. 19, 2005	Feb. 19, 2006	Conduction (CO01-HY)
LISN	MessTec	NNB-2/16Z	2001/009	9kHz – 30MHz	Apr. 26, 2005	Apr. 26, 2006	Conduction (CO01-HY)
LISN (Support Unit)	MessTec	NNB-2/16Z	2001/008	9kHz – 30MHz	May 06, 2005	May 06, 2006	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. 23, 2004	Dec. 23, 2005	Conduction (CO01-HY)
Antenna Mast	INN-CO	MM3000	114/8000604/L	1m~4m	NCR	N/A	Radiation (03CH06-HY)
Bilog Antenna	Schaffner	CBL6112B	2885	30MHz~2GHz	Nov. 21, 2004	Nov. 20, 2005	Radiation (03CH06-HY)
Controller	INN-CO	CO2000	114/8000604/L	N/A	NCR	N/A	Radiation (03CH06-HY)
Digital Radio Communication	R&S	CMD55	832796/0061	RF Link	Feb. 18, 2004	Feb. 17, 2006	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Com-Power	AH118	071025	1G~18G	Feb. 01, 2005	Jan. 31, 2006	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESCS30	100356	9KHz~2.75GHz	Jun. 28, 2005	Jun. 27, 2006	Radiation (03CH06-HY)
PreAmplifier	Agilent	8449B	3008A01917	1~26.5GHz	Mar. 29, 2005	Mar. 28, 2006	Radiation (03CH06-HY)
PreAmplifier	Com-Power	PA-103	161055	1MHz~1000MHz	Mar. 29, 2005	Mar. 28, 2006	Radiation (03CH06-HY)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	9170-249	14G~40G	Jul. 21, 2004	Jul. 20, 2006	Radiation (03CH06-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211030	9KHz~26.5GHz	Jul. 25, 2005	Jul. 24, 2006	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0~360 Degree	NCR	N/A	Radiation (03CH06-HY)

8. Uncertainty of 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		

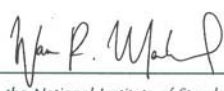
Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

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 $\bar{x}_i$		$u(x_i)$	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				

9. Certificate of NVLAP Accreditation

United States Department of Commerce National Institute of Standards and Technology	
	
ISO/IEC 17025:1999 ISO 9002:1994	
Certificate of Accreditation	
SPORTON INTERNATIONAL, INC. TAIPEI HSIEN 221 TAIWAN	
<i>is recognized by the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria set forth in NIST Handbook 150:2001, all requirements of ISO/IEC 17025:1999, and relevant requirements of ISO 9002:1994. Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:</i>	
ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS	
December 31, 2005 <i>Effective through</i>	 For the National Institute of Standards and Technology NVLAP Lab Code: 200079-0

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