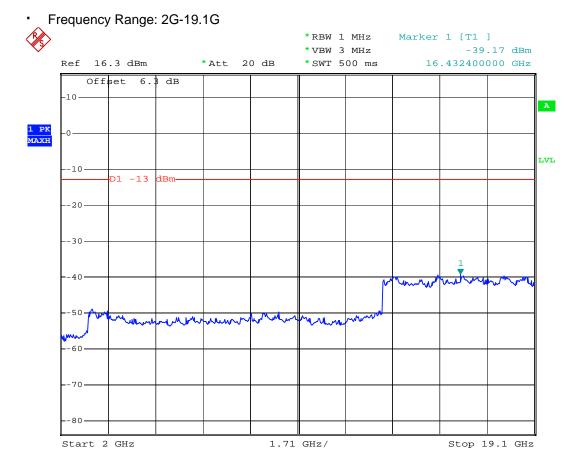


FCC TEST REPORT Report No.: FG680421



Date: 25.AUG.2006 21:18:09

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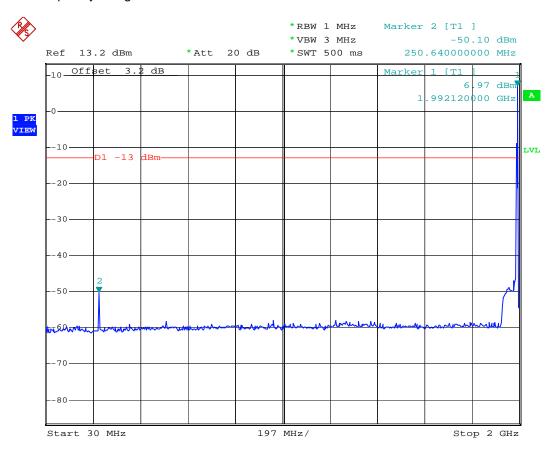
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Test Mode: PCS 1989.2MHz Downlink Mode

Frequency Range: 0.3G-2G



Date: 25.AUG.2006 21:37:16

SPORTON International Inc.

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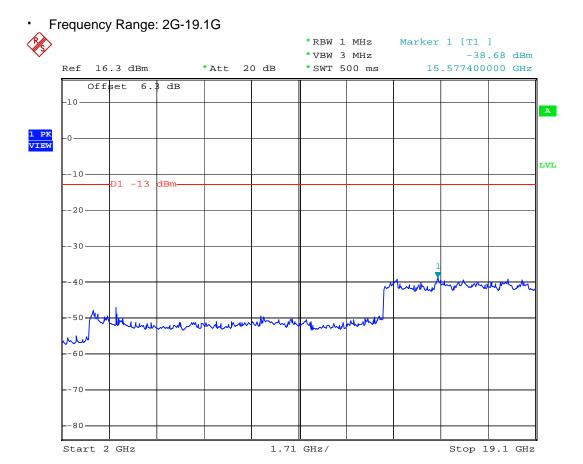
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FCC TEST REPORT Report No.: FG680421



Date: 25.AUG.2006 21:38:44

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4.4 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to ANSI/TIA/EIA-603.

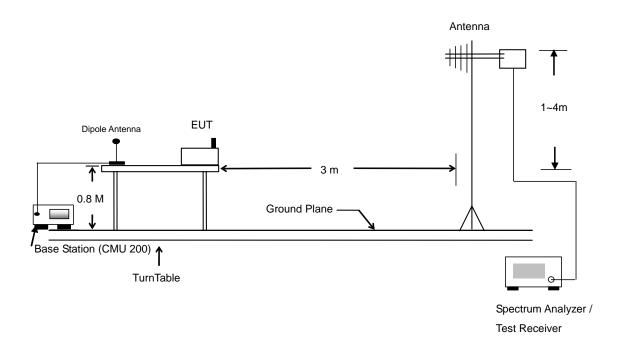
4.5.1 Measurement Instruments

As described in chapter 5 of this test report.

4.5.2 Test Procedure

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
- 2. The EUT was set 3 meters from the receiving antenna which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to reach the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Taking the record of maximum spurious emission.
- 6. A Horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the recored of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polariztion.
- 10. Emission level (dBm) = output power + substituion Gain.

4.5.3 Test Setup Layout



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4.5.4 Test Result

Test Mode : Mode 1

PCS 1850.2MHz Uplink Mode Radiated Spurious EIRP											
H Polarization V Polarization											
Frequency	EIRP (dBm)	Limit	Margin	Frequency	EIRP (dBm)	Limit	Margin				
(MHz)	EIRP (UDIII)	(dBm)	(dB)	(MHz)	EIRP (dbiii)	(dBm)	(dB)				
103.440	-48.360	-13	-35.36	44.040	-42.070	-13	-29.07				
118.290	-50.210	-13	-37.21	72.390	-46.600	-13	-33.60				
140.430	-54.130	-13	-41.13	83.730	-46.800	-13	-33.80				
397.300	-65.800	-13	-52.80	756.400	-60.750	-13	-47.75				
754.300	-64.030	-13	-51.03	799.800	-61.520	-13	-48.52				
799.800	-63.360	-13	-50.36	988.800	-61.910	-13	-48.91				

Test Mode : Mode 2

	PCS 1880MHz Uplink Mode Radiated Spurious EIRP												
	H Polarizati	on			V Polarizati	on							
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)						
41.340	-55.110	-13	-42.11	41.340	-43.750	-13	-30.75						
64.830	-46.210	-13	-33.21	103.440	-43.280	-13	-30.28						
114.240	-52.550	-13	-39.55	173.640	-48.730	-13	-35.73						
700.400	-60.490	-13	-47.49	355.300	-64.070	-13	-51.07						
756.400	-61.800	-13	-48.80	383.300	-61.060	-13	-48.06						
799.800	-59.530	-13	-46.53	899.900	-61.980	-13	-48.98						
1868.000	-41.790	-13	-28.79	1874.000	-54.680	-13	-41.68						

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Test Mode : Mode 3

PCS 1909.8MHz Uplink Mode Radiated Spurious EIRP												
	H Polarizati	V Polarizati	on									
Frequency	EIRP (dBm)	Limit	Margin	Frequency	EIRP (dBm)	Limit	Margin					
(MHz)	EIRP (ubili)	(dBm)	(dB)	(MHz)	EIRF (UDIII)	(dBm)	(dB)					
38.640	-47.200	-13	-34.20	44.040	-42.280	-13	-29.28					
103.980	-48.010	-13	-35.01	71.580	-47.360	-13	-34.36					
118.290	-50.440	-13	-37.44	86.430	-47.130	-13	-34.13					
397.300	-65.700	-13	-52.70	472.200	-58.770	-13	-45.77					
754.300	-64.280	-13	-51.28	756.400	-60.480	-13	-47.48					
799.800	-63.420	-13	-50.42	824.300	-61.760	-13	-48.76					

Test Mode : Mode 4

PCS 1930.2MHz Downlink Mode Radiated Spurious EIRP											
	H Polarizati	on			V Polarizati	on					
Frequency	EIRP (dBm)	Limit	Margin	Frequency	EIRP (dBm)	Limit	Margin				
(MHz)	LIKE (UDIII)	(dBm)	(dB)	(MHz)	EIRF (ubili)	(dBm)	(dB)				
44.040	-54.720	-13	-41.72	44.040	-41.650	-13	-28.65				
91.830	-53.800	-13	-40.80	72.930	-44.210	-13	-31.21				
117.480	-45.130	-13	-32.13	82.380	-44.300	-13	-31.30				
756.400	-64.050	-13	-51.05	756.400	-61.680	-13	-48.68				
799.800	-63.740	-13	-50.74	799.800	-62.140	-13	-49.14				
913.900	-64.340	-13	-51.34	924.400	-61.390	-13	-48.39				
3862.000	-48.300	-13	-35.30								

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Test Mode : Mode 5

PCS 1960MHz Downlink Mode Radiated Spurious EIRP												
	H Polarizati	on			V Polarizati	on						
Frequency	EIRP (dBm)	Limit	Margin	Frequency	EIRP (dBm)	Limit	Margin					
(MHz)	LIKE (UDIII)	(dBm)	(dB)	(MHz)	EIRF (ubili)	(dBm)	(dB)					
					1							
36.480	-56.350	-13	-43.35	38.640	-44.860	-13	-31.86					
73.740	-52.090	-13	-39.09	73.740	-37.590	-13	-24.59					
122.880	-57.470	-13	-44.47	114.240	-41.480	-13	-28.48					
353.900	-66.720	-13	-53.72	397.300	-63.860	-13	-50.86					
397.300	-66.140	-13	-53.14	430.900	-63.140	-13	-50.14					
500.900	-65.260	-13	-52.26	995.800	-60.150	-13	-47.15					
1944.000	-56.940	-13	-43.94									
3918.000	-49.080	-13	-36.08									

Test Mode : Mode 6

PCS 1989.8MHz Downlink Mode Radiated Spurious EIRP												
	H Polarizati	on			V Polarizati	on						
Frequency	EIRP (dBm)	Limit	Margin	Frequency	EIRP (dBm)	Limit	Margin					
(MHz)	EIRF (ubili)	(dBm)	(dB)	(MHz)	EIRF (dbiii)	(dBm)	(dB)					
43.230	-54.990	-13	-41.99	44.040	-41.620	-13	-28.62					
91.830	-53.830	-13	-40.83	72.390	-44.410	-13	-31.41					
115.590	-45.360	-13	-32.36	81.840	-44.290	-13	-31.29					
621.300	-66.730	-13	-53.73	353.900	-63.570	-13	-50.57					
756.400	-64.700	-13	-51.70	756.400	-61.220	-13	-48.22					
799.800	-63.690	-13	-50.69	799.800	-61.150	-13	-48.15					
3978.000	-47.740	-13	-34.74			-						

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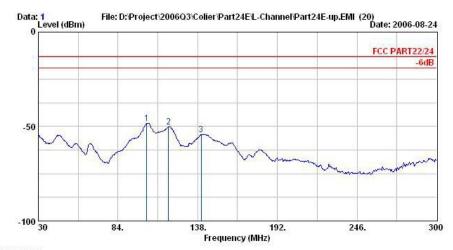
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4.5.5 Test Data

Mode 1 Horizontal Polarization



Site Condition : 03CH06-HY

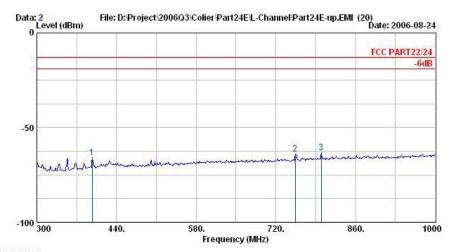
LF-SPURIOUS HORIZONTAL

Repeter 120Vac/60Hz EUT Power Model

1 2 3

PCS 1850.2 MHzuplink mode +Adaptor Memo

Freq	Level		Limit		Factor	Remark	
MHz	——dBm	\overline{dB}	——dBm	−−−dBm	<u>dB</u>		
118.29	-50.21	-37.21	-13.00 -13.00 -13.00	-37.76	-12.45	Peak	



: 03CH06-HY : LF-SPURIOUS HORIZONTAL Site Condition EUT

Repeter 120Vac/60Hz

emo	Freq	Level	0ver	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dВ	dBm	dBm	dB	
1 2 3	754.30	-65.80 -64.03 -63.36	-51.03	-13.00	-61.87	-2.16	Peak

SPORTON International Inc.

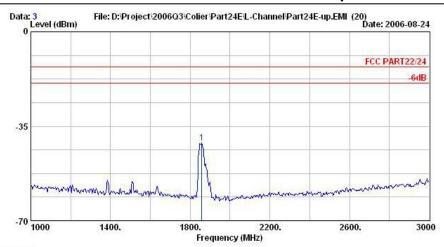
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

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Site Condition

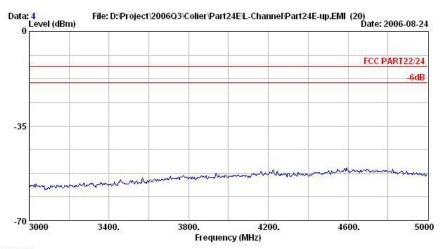
: 03CH06-HY : HF-SPURIOUS HORIZONTAL

Repeter 120Vac/60Hz EUT Power Model

: PCS 1850.2 MHzuplink mode + Adaptor
Over Limit Read
Freq Level Limit Line Level Factor Remark dB dBm dBm MHz dBm ₫B

1 @ 1858.00 -41.15 -40.64 -0.51 Peak

Remark: #1 Uplink Signal



03CH06-HY Site

Condition : HF-SPURIOUS HORIZONTAL

EUT Power Repeter 120Vac/60Hz Model

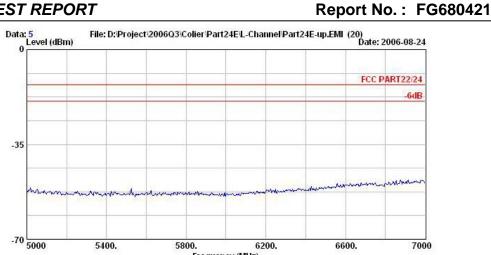
: FG680421 : PCS 1850.2 MHz uplink mode +Adaptor Memo

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: UG8C-2024-19 FCC ID

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Frequency (MHz)

6600.

7000

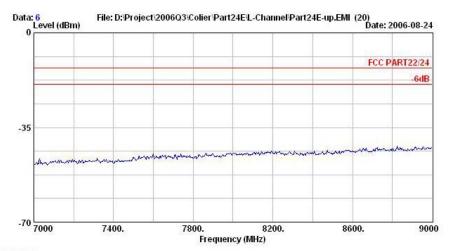
Site

: 03CH06-HY : HF-SPURIOUS HORIZONTAL Condition EUT

Repeter 120Vac/60Hz Power Model FG680421

Memo : PCS 1850.2 MHz uplink mode +Adaptor

5400.



Site

03CH06-HY HF-SPURIOUS HORIZONTAL

Condition EUT Repeter Power Model 120Vac/60Hz FG680421

: PCS 1850.2 MHzuplink mode +Adaptor Memo

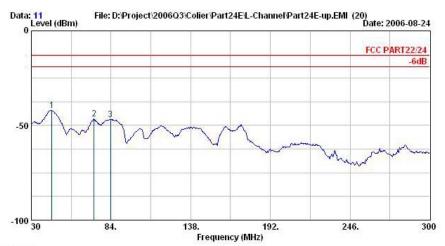
SPORTON International Inc.

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Vertical Polarization

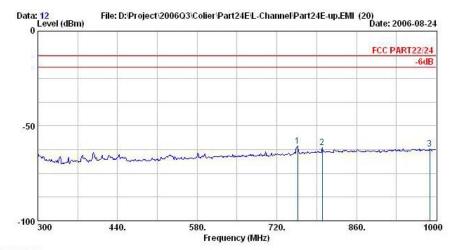


: 03CH06-HY Site Condition : LF-SPURIOUS VERTICAL Repeter 120Vac/60Hz EUT Power

Model Memo

: FG680421 : PCS 1850.2 MHzuplink mode +Adaptor Over Limit Read Freq Level Limit Line Level Factor Remark MHz dBm dB dBm dBm dB

1 @	44.04	-42.07	-29.07	-13.00	-29.17	-12.90	Peak
2	72.39	-46.60	-33.60	-13.00	-35.00	-11.60	Peak
3	83.73	-46.80	-33.80	-13.00	-36.74	-10.07	Peak



Site Condition : 03CH06-HY LF-SPURIOUS VERTICAL

EUT : Repeter : 120Vac/60Hz Power

: FG680421 : PCS 1850.2 MHz uplink mode +Adaptor

	Freq	Level		Limit Line		Factor	Remark
•	MHz	dBm	\overline{dB}	<u>dB</u> m	dBm	$\overline{d}\overline{B}$	
	799.80	-60.75 -61.52 -61.91	-48.52	-13.00	-62.59	1.07	Peak

SPORTON International Inc.

123

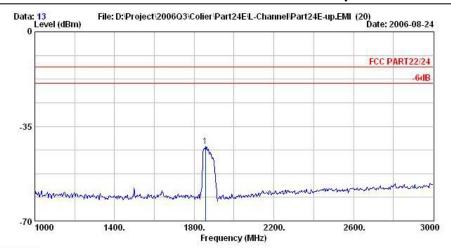
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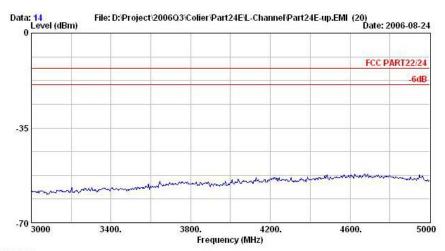
: 03CH06-HY : HF-SPURIOUS VERTICAL Site Condition

Repeter 120Vac/60Hz EUT Power Model FG680421

: PGS 1850.2 MHzuplink mode + Adaptor
Over Limit Read
Freq Level Limit Line Level Factor Remark MHz dBm

1 @ 1856.00 -42.54 -42.14 -0.40 Peak

Remark: #1 Uplink Signal



Site : 03CH06-HY

Condition HF-SPURIOUS VERTICAL

EUT Repeter 120Vac/60Hz Power Model

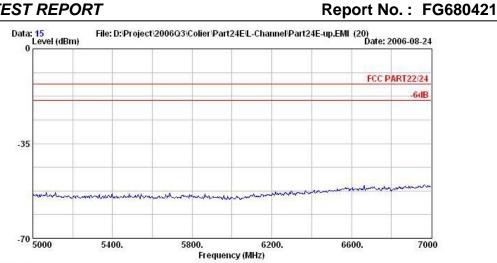
: FG680421 : PCS 1850.2 MHzuplink mode +Adaptor Memo

SPORTON International Inc.

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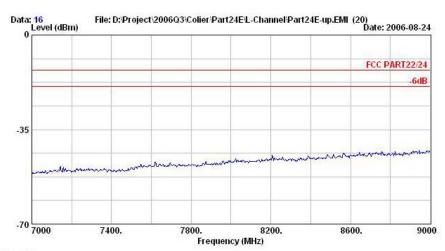


Site Condition

03CH06-HY HF-SPURIOUS VERTICAL

EUT Repeter 120Vac/60Hz FG680421 Power Model

: PCS 1850.2 MHz uplink mode +Adaptor



Site

: 03CH06-HY : HF-SPURIOUS VERTICAL

Condition EUT Repeter 120Vac/60Hz

Model FG680421

: PCS 1850.2 MHz uplink mode +Adaptor Memo

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

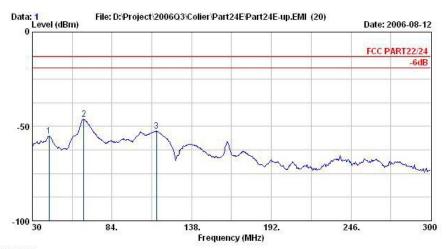
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

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Mode 2 Horizontal Polarization

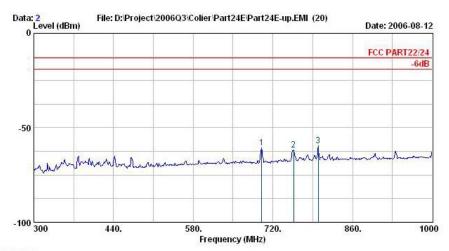


Site Condition : 03CH06-HY : LF-SPURIOUS HORIZONTAL

Repeter 120Vac/60Hz FG680421 EUT Power Model

PCS 1880 MHz uplink mode

OO IVII	тиршик то	ae	0ve r	Limit	Read			
	Freq	Level				Factor	Remark	
200	MHz	dBm	\overline{dB}	dBm	<u>dB</u> m	<u>dB</u>		202
	64.83	-55.11 -46.21 -52.55	-33.21	-13.00	-33.84	-12.37	Peak	



03CH06-HY LF-SPURIOUS HORIZONTAL Condition EUT

Repeter Power Model 120Vac/60Hz

FG680421

lemo	: PC3 1880 MHzuplink mo	de	0ver	Limit	Read		
	Freq	Level				Factor	Remark
	<u>M</u> Hz	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	dBm	dBm	\overline{dB}	
1 2 3	756.40	-61.80	-48.80	-13.00	-59.67	-2.72 -2.14 -1.69	Peak

SPORTON International Inc.

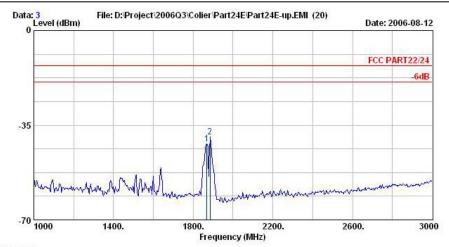
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

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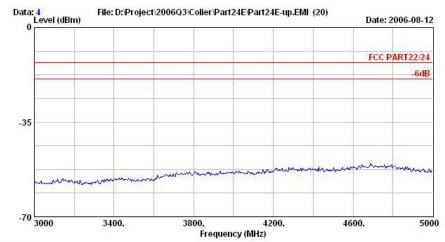
03CH06-HY HF-SPURIOUS HORIZONTAL Repeter

Site Condition EUT 120Vac/60Hz FG680421 Power Model

: PCS 1880 MHz uplink mode

		Freq	Level		Limit Line		Factor	Remark	
		MHz	dBm	dB	dBm	dBm	dB		
8	@	1868.00	-41.79	-28.79	-13.00	-41.28	-0.51	Peak	
,	@	1884.00	-39.27			-38.59	-0.68	Peak	

Remark: #2 Uplink Signal



Site Condition EUT

03CH06-HY HF-SPURIOUS HORIZONTAL

Repeter 120Vac/60Hz Power Model FG680421

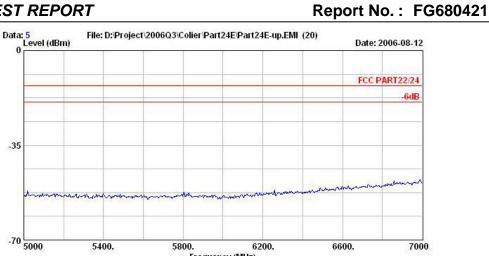
: PCS 1880 MHz uplink mode

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

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Frequency (MHz)

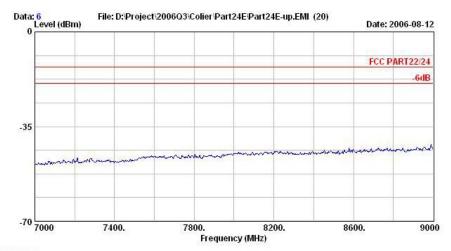
6600.

7000

5400.

: 03CH06-HY : HF-SPURIOUS HORIZONTAL : Repeter : 120Vac/60Hz Site Condition EUT Power Model FG680421

Memo : PCS 1880 MHz uplink mode



: 03CH06-HY Site

Condition EUT HF-SPURIOUS HORIZONTAL

Repeter 120Vac/60Hz Power Model

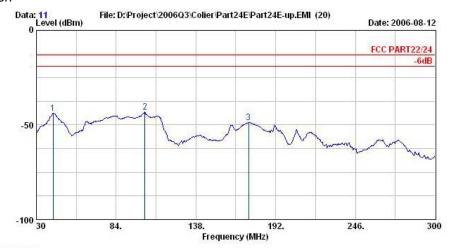
: FG680421 : PCS 1880 MHz uplink mode Memo

SPORTON International Inc.

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Vertical Polarization



Site 03CH06-HY Condition

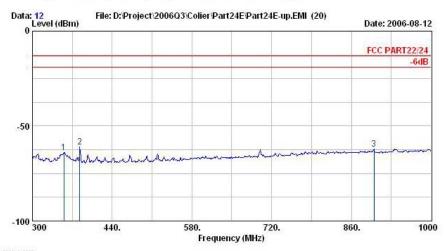
LF-SPURIOUS VERTICAL

EUT Power Repeter 120Vac/60Hz Model

1 @ 2 @ 3

FG680421 PCS 1880 MHz uplink mode Memo

	Freq	Level		Limit Line		Factor	Remark	
200	МНг	dBm	<u>dB</u>	dBm	dB m	<u>dB</u>		
	103.44	-43.75 -43.28 -48.73	-30.28	-13.00	-35.55	-7.72	Peak	



03CH06-HY LF-SPURIOUS VERTICAL Condition EUT Repeter

Power Model 120Vac/60Hz

FG680421 PCS 1880 MHz uplink mode

terno	. 1 CS 1000 MIIZ apmik ilio	ue .	Orror	Limit	Read			
	Freq	Level	Limit			Factor	Remark	
	<u>M</u> Hz	dBm	\overline{dB}	dBm	dBm	$\overline{d}\overline{B}$		
1			-51.07					
3			-48.06 -48.98				7/10/70/70/70	

SPORTON International Inc.

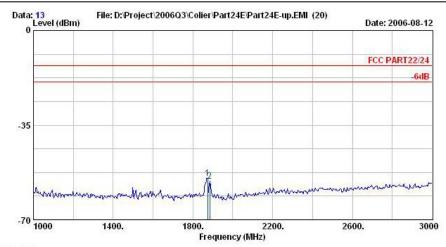
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

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Site Condition

03CH06-HY HF-SPURIOUS VERTICAL

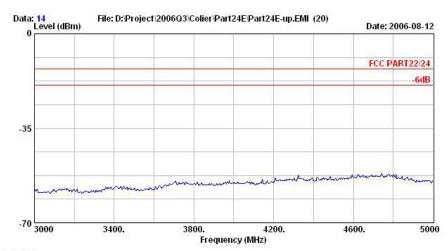
EUT Repeter 120Vac/60Hz FG680421 Power Model

Memo : PCS 1880 MHz uplink mode

Over Limit Read Freq Level Limit Line Level Factor Remark dB dBm MHz dBm dBm \overline{dB}

1874.00 -54.68 -41.68 -13.00 1884.00 -55.69 -0.40 Peak -0.50 Peak

Remark: #2 Uplink Signal



03CH06-HY HF-SPURIOUS VERTICAL Condition

EUT Repeter 120Vac/60Hz Model

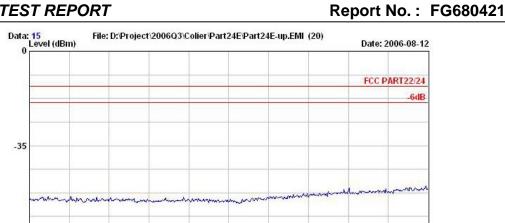
: FG680421 : PCS 1880 MHz uplink mode Memo

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

Page No. : 95 of 122 Report Issued Date : Aug. 25, 2006



Frequency (MHz)

6600.

7000

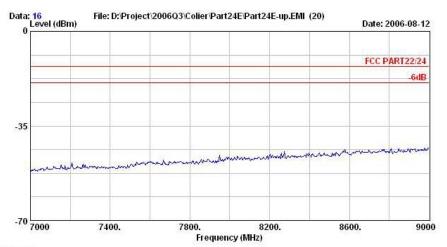
03CH06-HY HF-SPURIOUS VERTICAL Repeter 120Vac/60Hz FG680421 Site Condition EUT

Power Model

Memo PCS 1880 MHz uplink mode

-70 5000

5400.



Site Condition : 03CH06-HY : HF-SPURIOUS VERTICAL

Repeter 120Vac/60Hz EUT Power Model FG680421

PCS 1880 MHz uplink mode

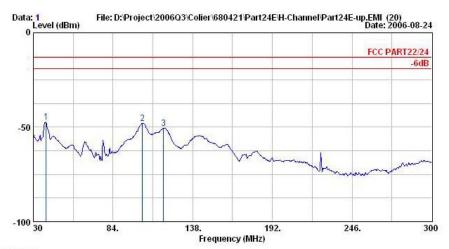
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

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Mode 3 Horizontal Polarization



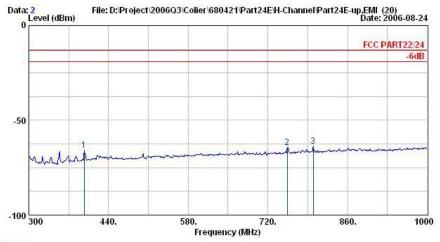
: 03CH06-HY : LF-SPURIOUS HORIZONTAL Condition EUT

Repeter 120Vac/60Hz Power Model

1 2 3

: FG680421 : PCS 1909.8 MHzuplink mode +Adaptor Memo

F	req	Level	Over Limit	Limit Line		Factor	Remark
	MHz	dBm	āB	dBm	dBm	\overline{dB}	
103	.98	-48.01	-34.20 -35.01 -37.44	-13.00	-35.73	-12.28	Peak



Site Condition EUT

: 03CH06-HY : LF-SPURIOUS HORIZONTAL

Repeter 120Vac/60Hz Power

FG680421 PCS 1909.8 MHz uplink mode +Adaptor

	Freq	Ā	0ver	Limit Line		Factor	Remark	
	<u>M</u> Hz	$-\overline{dBm}$	\overline{dB}	$-\overline{dBm}$	dBm	\overline{dB}		
1 2 3	754.30	-64.28	-51.28	-13.00 -13.00 -13.00	-62.12	-2.16	Peak	

SPORTON International Inc.

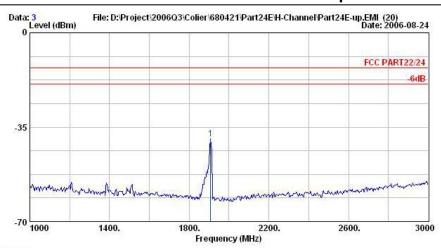
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

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Report No.: FG680421

Report No.: FG680421



Site Condition

: 03CH06-HY : HF-SPURIOUS HORIZONTAL

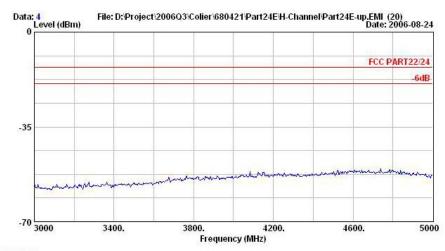
Repeter 120Vac/60Hz EUT Power Model

: PCS 1909.8 MHz uplink mode +Adaptor

Over Limit Read
Freq Level Limit Line Level Factor Remark MHz dBm dB dBm dBm ₫B

1 @ 1908.00 -39.42 -38.61 -0.81 Peak

Remark: #1 Uplink Signal



Site Condition

03CH06-HY HF-SPURIOUS HORIZONTAL

Repeter 120Vac/60Hz EUT Power Model FG680421

PCS 1909.8 MHz uplink mode +Adaptor

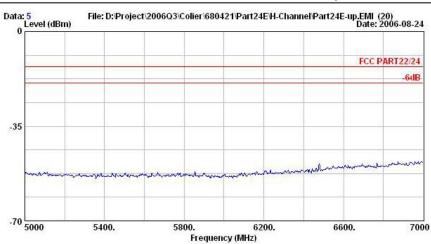
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

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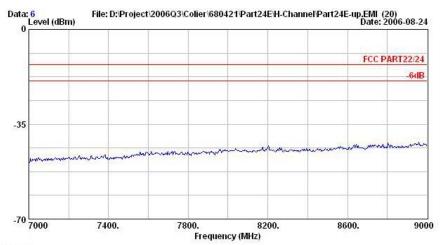




03CH06-HY HF-SPURIOUS HORIZONTAL Repeter

Site Condition EUT 120Vac/60Hz FG680421 Power Model

Memo : PCS 1909.8 MHz uplink mode +Adaptor



Site

03CH06-HY HF-SPURIOUS HORIZONTAL

Condition EUT Power Model Repeter 120Vac/60Hz

: FG680421 : PCS 1909.8 MHzuplink mode +Adaptor Memo

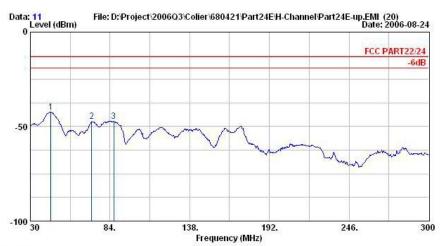
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

: 99 of 122 Report Issued Date : Aug. 25, 2006 Report Version : Rev. 01

Vertical Polarization

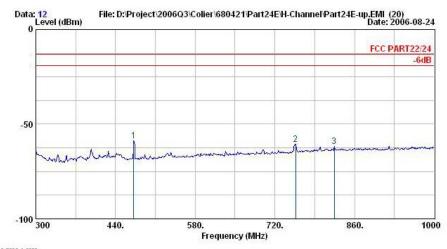


: 03CH06-HY Site LF-SPURIOUS VERTICAL : Repeter : 120Vac/60Hz EUT Power Model

Memo

: FG680421 : PCS 1909.8 MHzuplink mode +Adaptor Over Limit Read Freq Level Limit Line Level Factor Remark MHz dBm dB dBm dBm dB

1 @	44.04	-42.28	-29.28	-13.00	-29.38	-12.90	Peak
2	71.58	-47.36	-34.36	-13.00	-35.62	-11.74	Peak
3	86.43	-47.13	-34.13	-13.00	-37.49	-9.65	Peak



Site Condition EUT : 03CH06-HY LF-SPURIOUS VERTICAL : Repeter : 120Vac/60Hz Power

FG680421 PCS 1909.8 MHzuplink mode +Adaptor

	Freq	Level		Limit Line		Factor	Remark	
	<u>M</u> Hz	dBm	$\overline{-}\overline{d}\overline{B}$	dBm	dBm	$\overline{d}\overline{B}$		-
1 2 3	756.40	-60.48	-47.48	-13.00 -13.00 -13.00	-60.89	0.41	Peak	

SPORTON International Inc.

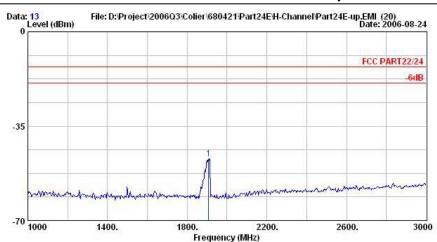
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

: 100 of 122 Report Issued Date : Aug. 25, 2006

Report No.: FG680421

Report No.: FG680421



Site : 03CH06-HY Condition : HF-SPURIOUS VERTICAL

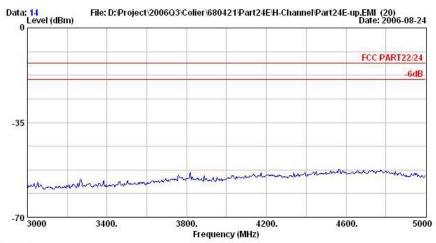
Repeter 120Vac/60Hz EUT Power Model

: PCS 1909.8 MHz uplink mode +Adaptor

Over Limit Read Freq Level Limit Line Level Factor Remark MHz dBm dB dBm dBm ₫B

1 @ 1908.00 -47.08 -46.58 -0.50 Peak

Remark: #1 Uplink Signal



Site

: 03CH06-HY : HF-SPURIOUS VERTICAL Condition

Repeter 120Vac/60Hz EUT Power Model

: FG680421 : PCS 1909.8 MHz uplink mode +Adaptor

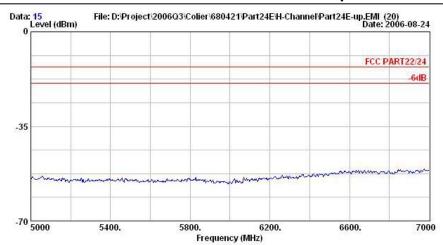
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

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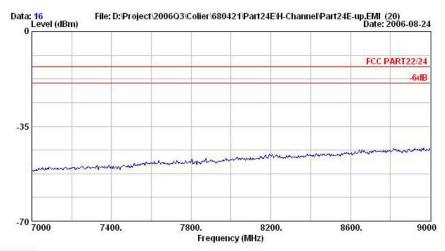


Site Condition

: 03CH06-HY : HF-SPURIOUS VERTICAL

Repeter 120Vac/60Hz EUT Power Model FG680421

: PCS 1909.8 MHz uplink mode +Adaptor



: 03CH06-HY Site

HF-SPURIOUS VERTICAL

Condition EUT Power Model Repeter 120Vac/60Hz

: FG680421 : PCS 1909.8 MHz uplink mode +Adaptor

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

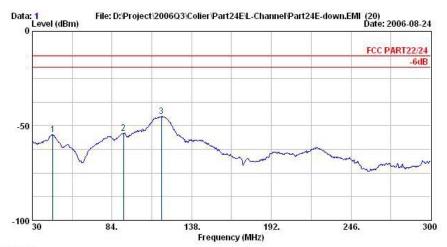
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

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Mode 4 Horizontal Polarization



Site : 03CH06-HY

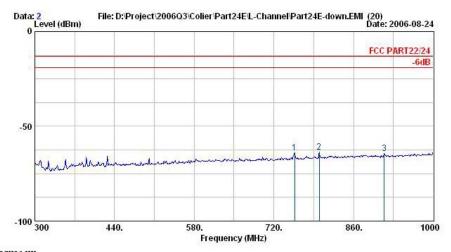
: LF-SPURIOUS HORIZONTAL

Condition EUT Power Repeter 120Vac/60Hz Model

1 @ 2 @ 3 @

: FG680421 : PCS 1930.2 MHz downlink mode+Adaptor Memo

Freq	Level		Limit		Factor	Remark	
MHz	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	dBm	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		
91.83	-53.80	-40.80	-13.00 -13.00 -13.00	-41.53	-12.27	Peak	



03CH06-HY LF-SPURIOUS HORIZONTAL Condition EUT

Power Model

LF-SPURIOUS HORIZON 1 AL Repeter 120Vac/60Hz FG680421 PCS 1930.2 MHz downlink mode+Adaptor

.em	,	Freq	Over Freq Level Limit		Limit Line			Remark
		MHz	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	<u>dBm</u>	dBm	\overline{dB}	
1 2 3	@ @	799.80	-64.05 -63.74 -64.34	-50.74	-13.00	-62.05	-1.69	Peak

SPORTON International Inc.

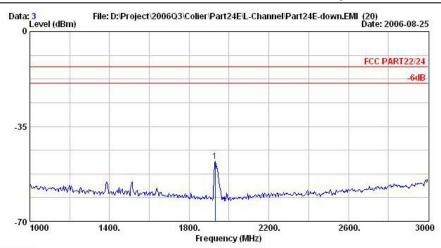
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

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Report No.: FG680421

Report No.: FG680421



: 03CH06-HY Site

Condition : HF-SPURIOUS HORIZONTAL EUT : Repeter

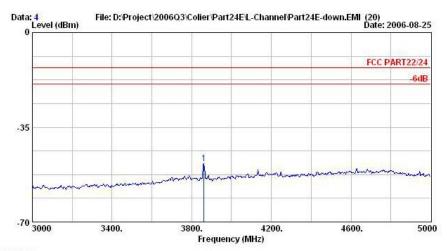
120Vac/60Hz Model FG680421

1 @

Memo

: PCS 1930.2 MHz downlink mode+Adaptor
Over Limit Read
Freq Level Limit Line Level Factor Remark dB dBm dBm MHz dBm ---dB 1930.00 -47.84 -47.03 -0.81 Peak

Remark: #1 Downlink Signal



: 03CH06-HY Site

Condition EUT HF-SPURIOUS HORIZONTAL

Repeter 120Vac/60Hz Power Model

Memo

3862.00 -48.30 -35.30 -13.00 -56.80 8.50 Peak

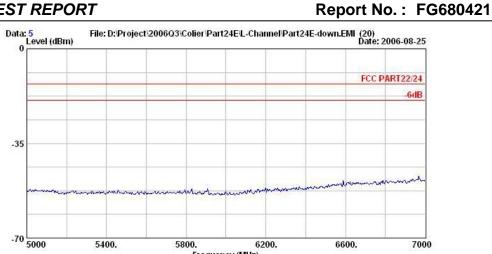
SPORTON International Inc.

1 @

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

FCC ID : UG8C-2024-19

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Frequency (MHz)

6200.

6600.

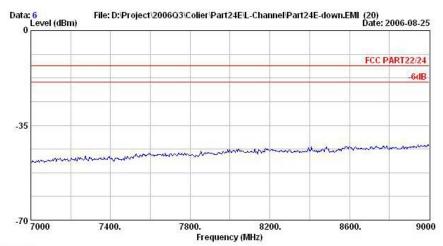
7000

: 03CH06-HY : HF-SPURIOUS HORIZONTAL

Site Condition EUT Repeter 120Vac/60Hz Power Model FG680421

: PCS 1930.2 MHz downlink mode+Adaptor

5400.



03CH06-HY

Condition EUT HF-SPURIOUS HORIZONTAL

Repeter Power Model 120Vac/60Hz FG680421

: PCS 1930.2 MHz downlink mode+Adaptor

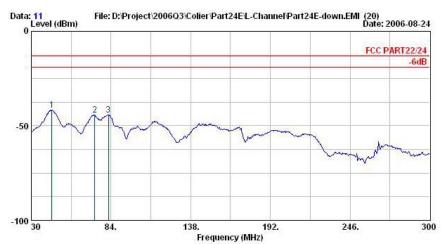
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

FCC ID : UG8C-2024-19

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Vertical Polarization

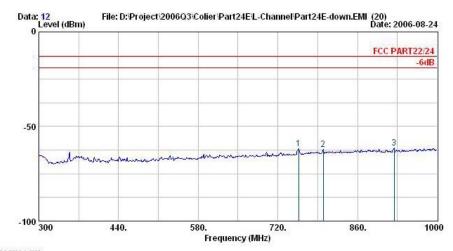


: 03CH06-HY Site Condition : LF-SPURIOUS VERTICAL Repeter 120Vac/60Hz EUT Power

: FG680421 : PCS 1930.2 MHz downlink mode+Adaptor Over Limit

Read Freq Level Limit Line Level Factor Remark MHz dBm -dB −− dBm -dBm ₫B

1 @	44.04	-41.65	-28.65	-13.00	-28.75	-12.90	Peak
2 @	72.93	-44.21	-31.21	-13.00	-32.60	-11.60	Peak
3 @	82.38	-44.30	-31.30	-13.00	-34.09	-10.21	Peak



Site Condition

: 03CH06-HY : LF-SPURIOUS VERTICAL

Repeter 120Vac/60Hz EUT Power Model : FG680421

: PCS 1930.2 MHz downlink mode+Adaptor

	Freq	Over Lim Freq Level Limit Li				Factor	Remark
	MHz	dBm	<u>dB</u>	dBm	dBm	dB	
@ @	799.80	-62.14	-48.68 -49.14 -48.39	-13.00	-63.21	1.07	Peak

SPORTON International Inc.

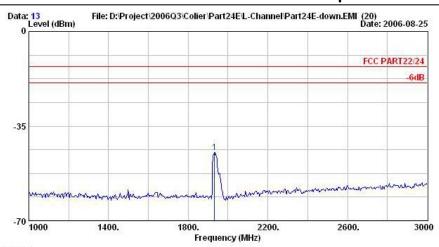
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

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Report No.: FG680421

Report No.: FG680421



: 03CH06-HY

Site Condition HF-SPURIOUS VERTICAL

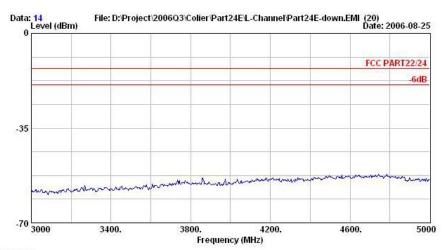
EUT Repeter 120Vac/60Hz Power Model

1 @

Memo

: PGS 1930.2 MHz downlink mode+Adaptor
Over Limit Read
Freq Level Limit Line Level Factor Remark MHz dBm dB dBm dBm dB 1932.00 -44.65 -44.15 -0.50 Peak

Remark: #1 Downlink Signal



Site : 03CH06-HY

HF-SPURIOUS VERTICAL

Repeter 120Vac/60Hz EUT Power ModelFG680421

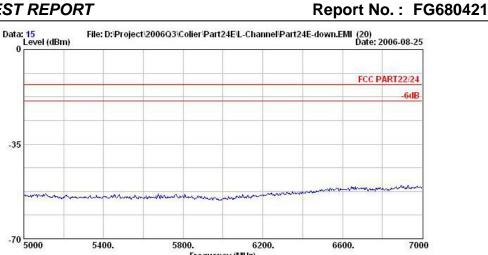
: PCS 1930.2 MHz downlink mode+Adaptor Memo

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

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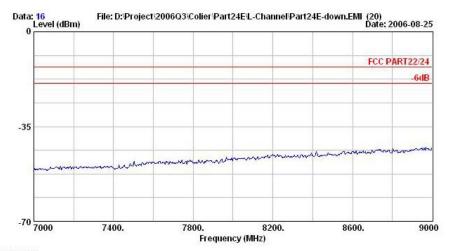


Frequency (MHz)

Site Condition EUT 03CH06-HY HF-SPURIOUS VERTICAL Repeter

120Vac/60Hz FG680421 Power Model

Memo : PCS 1930.2 MHz downlink mode+Adaptor



03CH06-HY Site

Condition HF-SPURIOUS VERTICAL

Repeter 120Vac/60Hz EUT Power Model FG680421

PCS 1930.2 MHz downlink mode+Adaptor

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

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: Rev. 01

Report Issued Date : Aug. 25, 2006

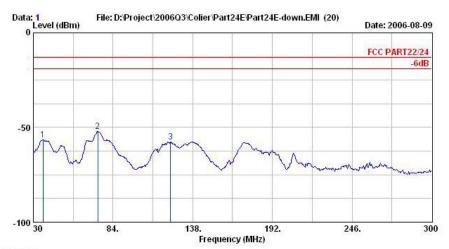
Report Version

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

Mode 5 Horizontal Polarization



Site : 03CH06-HY

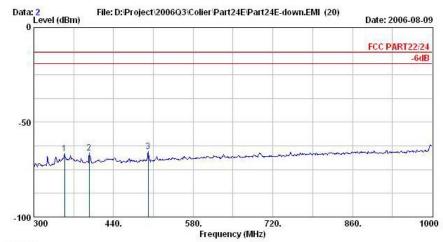
LF-SPURIOUS HORIZONTAL

Condition EUT Power Repeter 120Vac/60Hz Model

1 @ 2 @ 3 @

: FG680421 : PCS 1960 MHz downlink mode Memo

Freq	Level	Over Limit			Factor	Remark	
МНг	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	dBm	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		
73.74	-56.35 -52.09 -57.47	-39.09	-13.00	-39.75	-12.34	Peak	



Site

03CH06-HY LF-SPURIOUS HORIZONTAL Condition EUT

Repeter Power Model 120Vac/60Hz FG680421

: PCS 1960 MHz downlink mode Memo

	Freq	Level		Limit Line		Factor	Remark
	МНг	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	dBm	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	
1 @ 2 @ 3 @	397.30	-66.14	-53.14	-13.00 -13.00 -13.00	-59.58	-6.57	Peak

SPORTON International Inc.

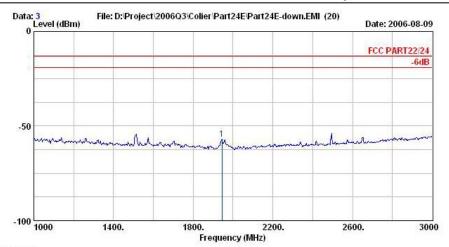
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

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Report No.: FG680421

Report No.: FG680421



03CH06-HY HF-SPURIOUS HORIZONTAL Condition :

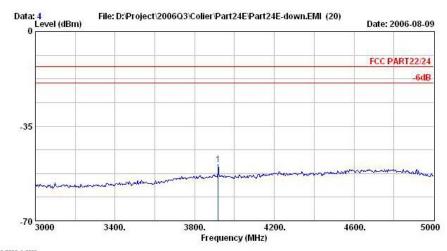
EUT Repeter 120Vac/60Hz FG680421 Power Model

1 @

: PCS 1960 MHz downlink mode

Over Limit Read Freq Level Limit Line Level Factor Remark dB dBm dB dBm dBm 1944.00 -56.94 -55.99 -0.94 Peak

Remark: #1 Downlink Signal



Site

03CH06-HY HF-SPURIOUS HORIZONTAL Condition

Repeter 120Vac/60Hz EUT Power

: FG680421 : PCS 1960 MHz downlink mode

Over Limit Read Freq Level Limit Line Level Factor Remark MHz dBm dB dBm dBm \overline{dB}

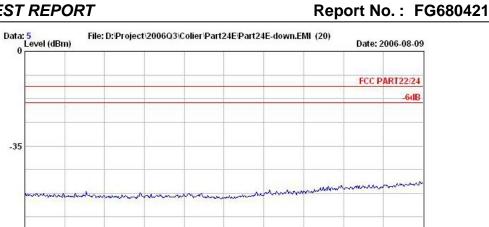
1 @ 3918.00 -49.08 -36.08 -13.00 -57.80 8.72 Peak

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

FCC ID : UG8C-2024-19

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Frequency (MHz)

6600.

7000

Site

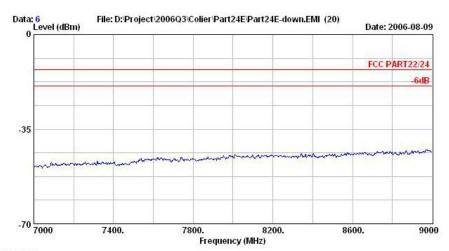
: 03CH06-HY : HF-SPURIOUS HORIZONTAL Condition EUT

-70 5000

5400.

Repeter 120Vac/60Hz Power Model Memo

: FG680421 : PCS 1960 MHz downlink mode



03CH06-HY HF-SPURIOUS HORIZONTAL Condition EUT

Repeter 120Vac/60Hz Model FG680421

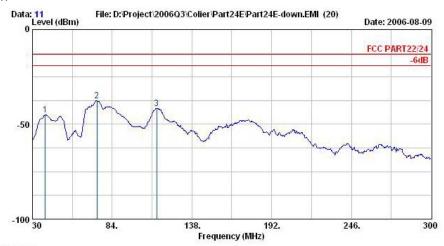
Memo : PCS 1960 MHz downlink mode

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

FCC ID : UG8C-2024-19 Page No. : 111 of 122 Report Issued Date : Aug. 25, 2006

Vertical Polarization



03CH06-HY Site

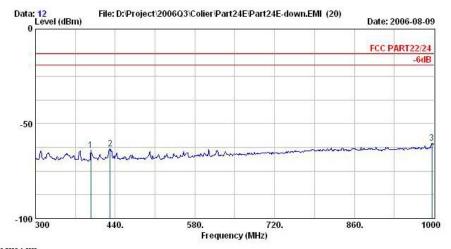
Condition LF-SPURIOUS VERTICAL

Repeter 120Vac/60Hz EUT Power Model FG680421

: PCS 1960 MHz downlink mode Memo

Fı	req	Le	ve l					Re Le		Fac	tor	Remark	
M	Ήz		1Bm		₫B		dBm		Bm.		₫B		
38	64	-44	86	-31	86	-13	00	-33	32	-11	53	Peak	

73.74 -37.59 -24.59 -13.00 -26.12 -11.46 Peak 114.24 -41.48 -28.48 -13.00 -33.66



: 03CH06-HY Site LF-SPURIOUS VERTICAL Condition

EUT Repeter 120Vac/60Hz Power Model Memo

FG680421 PCS 1960 MHz downlink mode

		Level	Limit	Limit Line ————————————————————————————————————	Level		Remark
1 2 3 @	430.90	-63.14	-50.14	-13.00 -13.00 -13.00	-59.18	-3.96	Peak

SPORTON International Inc.

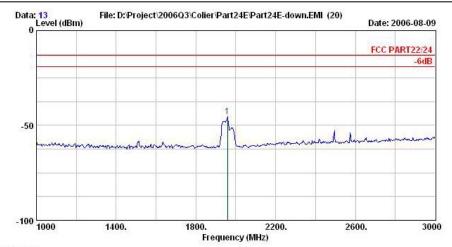
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

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Report No.: FG680421

Report No.: FG680421



Site : 03CH06-HY

Condition : HF-SPURIOUS VERTICAL EUT : Repeter

EUT : Repeter
Power : 120Vac/60Hz
Model : FG680421

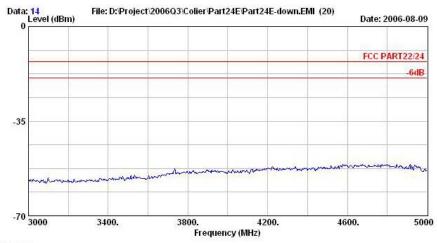
Memo : PCS 1960 MHz downlink mode

Over Limit Read
Freq Level Limit Line Level Factor Remark

MHz dBm dB dBm dBm dB

1958.00 -45.33 -44.74 -0.60 Peak

1 @ 1958.00 -45.33 Remark: #1 Downlink Signal



Site : 03CH06-HY

Condition : HF-SPURIOUS VERTICAL EUT : Repeter

EUT : Repeter Power : 120Vac/60Hz Model : FG680421

Model : FG680421 Memo : PCS 1960 MHz downlink mode

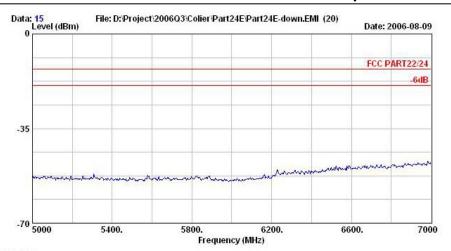
SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

FCC ID : UG8C-2024-19

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Report No.: FG680421

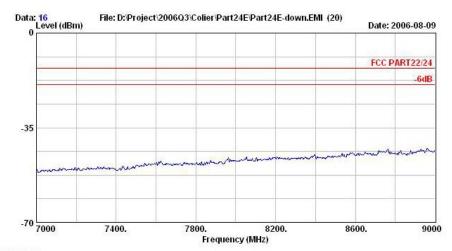


03CH06-HY Site

Condition HF-SPURIOUS VERTICAL

EUT Repeter 120Vac/60Hz Power Model

FG680421 PCS 1960 MHz downlink mode Memo



Site Condition

: 03CH06-HY : HF-SPURIOUS VERTICAL

Repeter 120Vac/60Hz EUT Power Model FG680421

PCS 1960 MHz downlink mode

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

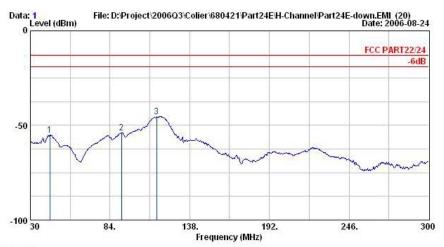
SPORTON International Inc.

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: UG8C-2024-19 FCC ID

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Mode 6 Horizontal Polarization



Site : 03CH06-HY

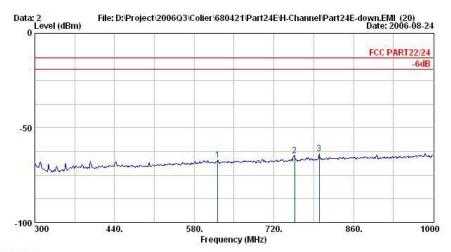
Condition EUT LF-SPURIOUS HORIZONTAL

Repeter 120Vac/60Hz Power Model

1 2 3

: FG680421 : PCS 1989.8 MHz downlink mode+Adaptor Memo

Freq	Level		Limit Line		Factor	Remark
MHz	dBm	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	dBm	<u>dB</u> m	<u>dB</u>	
91.83	-54.99 -53.83 -45.36	-40.83	-13.00	-41.56	-12.27	Peak



03CH06-HY Site

Condition EUT LF-SPURIOUS HORIZONTAL

Repeter Power Model Memo 120Vac/60Hz

: FG680421 : PCS 1989.8 MHz downlink mode+Adaptor

	Freq	Level		Limit Line		Factor	Remark
	MHz	dBm	−−−−dB	dBm	dBm	dB	
1 2 3	756.40	-64.70	-51.70	-13.00 -13.00 -13.00	-62.56	-2.14	Peak

SPORTON International Inc.

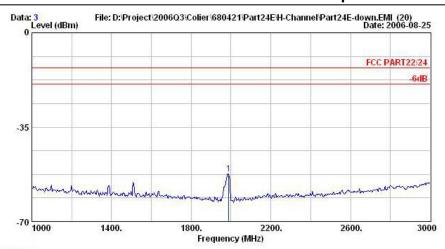
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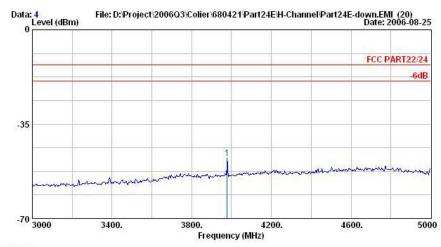
Site : 03CH06-HY Condition : HF-SPURIOUS HORIZONTAL

: Repeter : 120Vac/60Hz EUT Power

MHz dBm dB dBm dBm ₫B

1988.00 -52.28 1 -51.00 -1.28 Peak

Remark: #1 Downlink Signal



: 03CH06-HY Site

Condition : HF-SPURIOUS HORIZONTAL

EUT Repeter 120Vac/60Hz Power ModelFG680421

: PCS 1989.8 MHz downlink mode+Adaptor
Over Limit Memo

Read Freq Level Limit Line Level Factor Remark MHz dBm dB dBm dBm ₫B

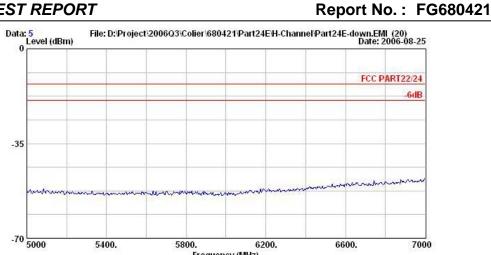
1 3978.00 -47.74 -34.74 -13.00 -56.85 9.11 Peak

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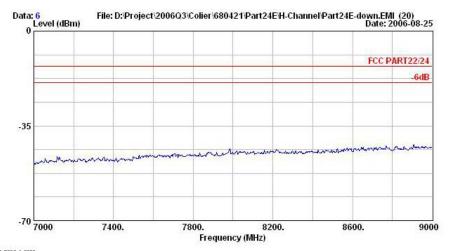
Frequency (MHz)

Site : Condition :

: 03CH06-HY : HF-SPURIOUS HORIZONTAL

EUT Repeter 120Vac/60Hz FG680421 Power Model

: PCS 1989.8 MHz downlink mode+Adaptor



Site

03CH06-HY HF-SPURIOUS HORIZONTAL Condition EUT

Repeter Power 120Vac/60Hz Model

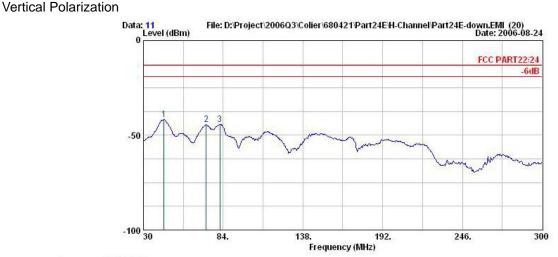
: FG680421 : PCS 1989.8 MHz downlink mode+Adaptor Memo

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: 03CH06-HY Site

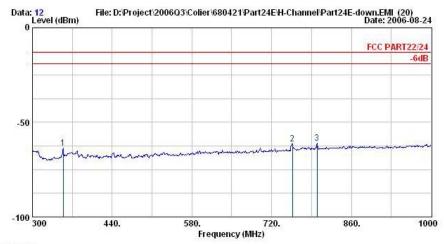
Condition LF-SPURIOUS VERTICAL

Repeter 120Vac/60Hz EUT Power Model FG680421

Memo

: PCS 1989.8 MHz downlink mode+Adaptor Over Limit Read Freq Level Limit Line Level Factor Remark MHz dBm dB dBm dBm dB -

1 @	44.04	-41.62	-28.62	-13.00	-28.72	-12.90 Pe	ak
2	72.39	-44.41	-31.41	-13.00	-32.81	-11.60 Pe	ak
3	81.84	-44.29	-31.29	-13.00	-33.95	-10.35 Pe	ak



Site 03CH06-HY

LF-SPURIOUS VERTICAL Repeter Condition EUT

120Vac/60Hz Model FG680421

PCS 1989.8 MHz downlink mode+Adaptor Memo

	Freq	Level	0ver	Limit Line		Factor	Remark
	MHz	dBm	\overline{dB}	dBm	dBm	dB	
1 2 3	756.40	-63.57 -61.22 -61.15	-48.22	-13.00	-61.64	0.41	Peak

SPORTON International Inc.

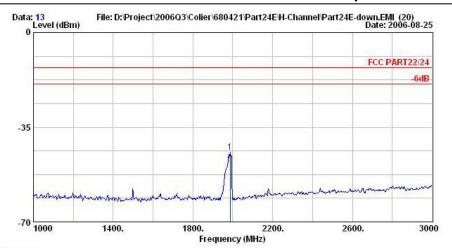
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

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Site

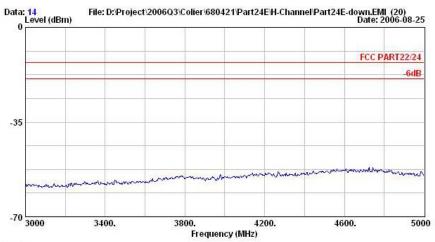
03CH06-HY HF-SPURIOUS VERTICAL Repeter Condition

EUT 120Vac/60Hz Power Model FG680421

Memo : PCS 1989.8 MHz downlink mode+Adaptor

Freq	Level		Limit Line		Factor	Remark
—————————————————————————————————————	dBm	\overline{dB}	dBm	dBm	dB	

1 @ 1986.00 -44.29 -31.29 -13.00 -43.59 -0.69 Peak



Site Condition

03CH06-HY HF-SPURIOUS VERTICAL

EUT Repeter 120Vac/60Hz FG680421 Power Model

Memo : PCS 1989.8 MHz downlink mode+Adaptor

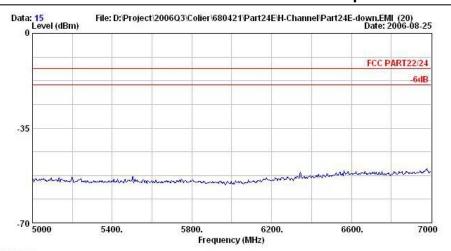
SPORTON International Inc.

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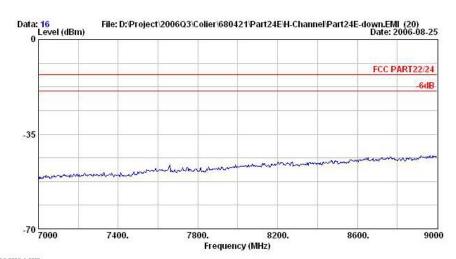


Site

03CH06-HY HF-SPURIOUS VERTICAL Repeter Condition

EUT 120Vac/60Hz Power Model FG680421

Memo : PCS 1989.8 MHz downlink mode+Adaptor



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: Rev. 01

Report Issued Date : Aug. 25, 2006

Report Version

: 03CH06-HY Site

Condition HF-SPURIOUS VERTICAL EUT

Repeter 120Vac/60Hz Power Model

: FG680421 : PCS 1989.8 MHz downlink mode+Adaptor Memo

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

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

: UG8C-2024-19 FCC ID

5. List of Measurement Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Jul. 25, 2006	Jul. 24, 2007	Radiation (03CH06-HY)
Spectrum analyzer	R&S	FSP40	100057	9KHz-40GHz	Jun. 15, 2006	Jun. 14, 2007	Radiation (03CH06-HY)
Network analyzer	Agilent	E8358A	US40260131	300KHz-9GHz	Sep.16.2005	Sep.16.2006	Radiation (03CH06-HY)
Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jun. 26, 2006	Jun. 25, 2007	Radiation (03CH06-HY)
Controller	СТ	SC100	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 22, 2004	Nov. 21, 2006	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Feb. 22, 2006	Feb. 21, 2007	Radiation (03CH06-HY)
HF Amplifier	MITEQ	AFS44	973248	0.1G - 26.5G	Dec. 17, 2005	Dec. 16, 2006	Radiation (03CH06-HY)
Turn Table	HD	DS 420	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)

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6. Uncertainty Evaluation

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

Contribution	Uncerta	ainty of x_i		
	٩D	Probability	$u(x_i)$	
	dB	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	2.54			
of 95% U=2Uc(y)				

<u>Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)</u>

Contribution	Uncerta	inty of X_i		Ci	$Ci*u(x_i)$	
	dB	Probability	$u(x_i)$	Ci	$Ci^*u(x_i)$	
	GB	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				1	0.044	
Receiver VSWR Γ1= 0.197	+0.34/-0.35	U-shaped	0.244			
Antenna VSWR Γ2= 0.194	+0.34/-0.33	U-snapeu	0.244	'	0.244	
Uncertainty=20log(1-Γ1*Γ2*Γ3)						
Combined standard uncertainty Uc(y)			2.36			
Measuring uncertainty for a level of	of					
confidence of 95% U=2Ue(y)	4.72					

END OF TEST REPORT

SPORTON International Inc.

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