FCC 47 CFR PART 15 SUBPART B TEST REPORT

Reference No.: T101221203-F

Report No.: T110104202-F

for

17" Rugged Touch Panel Computer; 12" Rugged Touch Panel Computer; 15" Rugged Touch Panel Computer

MODEL: xxxxxAGP-3175xxx-xxxxxxxx; xxxxxAGP-3125xxx-xxxxxxxx; xxxxxAGP-3155xxx-xxxxxxxx (Where x is 0-9, A-Z, - or blank)

Test Report Number: T110104202-F

Issued to:

AAEON Technology Inc.

5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist., New Taipei City, Taiwan, R.O.C.

Issued by:

Compliance Certification Services Inc.

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Issued Date: January 7, 2011







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Revision History

Reference No.: T101221203-F Report No.: T110104202-F

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	November 26, 2010	Initial Issue	ALL	Eva Fan
01	January 6, 2011	Add a panel (12").	ALL	Eva Fan
02	January 7, 2011	Add a panel (15").	ALL	Eva Fan

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1 TEST RESULT CERTIFICATION

Product: 17" Rugged Touch Panel Computer; 12" Rugged Touch Panel Computer;

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15" Rugged Touch Panel Computer

Model: xxxxxAGP-3175xxx-xxxxxxxx; xxxxxAGP-3125xxx-xxxxxxxx;

xxxxxAGP-3155xxx-xxxxxxxx (Where x is 0-9, A-Z, - or blank)

Brand: AAEON

Applicant: AAEON Technology Inc.

5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist.,

New Taipei City, Taiwan, R.O.C.

Manufacturer: AAEON Technology Inc.

5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist.,

New Taipei City, Taiwan, R.O.C.

Tested: November 9, 2010 ~ January 7, 2011

EMISSION				
Standard	Item	Result	Remarks	
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 4	Conducted (Power Port)	PASS	Meet Class A limit	
ANSI C63.4-2003	Radiated	PASS	Meet Class A limit	

Note: 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.

2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard	
None	

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:	Reviewed by:
Sanlle	Vesta Hou.
Sam Hu Section Manager	Vesta Hsu Supervisor of report document dept.

2 EUT DESCRIPTION

Product	17" Rugged Touch Panel Computer; 12" Rugged Touch Panel Computer; 15" Rugged Touch Panel Computer	
Brand Name	AAEON	
Model	xxxxxAGP-3175xxx-xxxxxxxx; xxxxxAGP-3125xxx-xxxxxxxx; xxxxxAGP-3155xxx-xxxxxxxx (Where x is 0-9, A-Z, - or blank)	
Applicant	AAEON Technology Inc.	
Housing material	N/A	
Identify Number	T101111202	
Received Date	November 11, 2010	
EUT Power Rating	100-240VAC	
AC Power During Test	120VAC / 60Hz	
Power Supply Manufacturer	Enhance	
Power Supply Model Number	ENP-7025B	
OSC/Clock Frequencies	25MHz; 14.31818MHz; 32.768KHz	

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Model Differences

	Model Name	Difference	
Original	ννννΛCD 3175ννν νννννννν	1. Panel Size: 17"	
Original	xxxxxAGP-3175xxx-xxxxxxxx	2. Where x is 0-9, A-Z, - or blank	
	nal xxxxxAGP-3125xxx-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	1. Panel Size: 12"	
Additional		2. Where x is 0-9, A-Z, - or blank	
Additional		1. Panel Size: 15"	
		2. Where x is 0-9, A-Z, - or blank	

I/O PORT

Model Number: TF-AGP-3175-A10-1010; TF-AGP-3155HTT-A1-1010

I/O PORT TYPES	Q'TY	TESTED WITH
1. SIO Port	3	3
2. PS/2 Keyboard Port	1	1
3. PS/2 Mouse Port	1	1
4. VGA Port	1	1
5. DVI Port	1	1
6. Audio in Port	1	1
7. Microphone Port	1	1
8. Earphone Port	1	1
9. USB Port	6	6
10. LAN Port	2	2
11. HDMI Port	1	1

Model Number: TF-AGP-3125HTT-A1-1010

I/O PORT TYPES	Q'TY	TESTED WITH
1. SIO Port	1	1
2. PS/2 Keyboard Port	1	1
3. PS/2 Mouse Port	1	1
4. VGA Port	1	1
5. DVI Port	1	1
6. Audio in Port	1	1
7. Microphone Port	1	1
8. Earphone Port	1	1
9. USB Port	6	6
10. LAN Port	2	2
11. HDMI Port	1	1

Note: Client supplied TF-AGP-3175-A10-1010, TF-AGP-3125HTT-A1-1010 and

TF-AGP-3155HTT-A1-1010 to test.

3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the above additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

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The test configuration/ modes are as the following:

Conduction Modes:

1		EUT + VGA Mode	
2	TF-AGP-3175-A10-1010	EUT + DVI Mode	1280X768
3		EUT + HDMI Mode	
4		EUT + VGA Mode	
5	TF-AGP-3125HTT-A1-1010	EUT + DVI Mode	1024X768
6		EUT + HDMI Mode	
7		EUT + VGA Mode	
8	TF-AGP-3155HTT-A1-1010	EUT + DVI Mode	1024X768
9		EUT + HDMI Mode	

Radiation Modes:

1		EUT + VGA Mode		
2	2 TF-AGP-3175-A10-1010	EUT + DVI Mode	1280X768	
_		EUT + DVI Mode / 1-9.35GHz	12007/00	
3		EUT + HDMI Mode		
4		EUT + VGA Mode		
*	TF-AGP-3125HTT-A1-1010	EUT + VGA Mode / 1-9.35GHz	1024X768	
5	1F-AGF-3125H11-A1-1010	EUT + DVI Mode		
6		EUT + HDMI Mode		
7		EUT + VGA Mode		
_ ′	TF-AGP-3155HTT-A1-1010	EUT + VGA Mode / 1-9.35GHz	1024X768	
8	11-401-01001111-41-1010	EUT + DVI Mode	10247/100	
9		EUT + HDMI Mode		

Conduction: Mode 1
Radiation: Mode 2

3.2. EUT SYSTEM OPERATION

- 1. Windows XP boots system.
- 2. Run Emctest.exe to activate all peripherals and display "H" pattern on monitor screen.
- 3. Run Winemc.exe then choose "E:/ & F:/ & G:/ & H:/ & I:/ & J:/" to test USB port.
- 4. Run Winemc.exe and choose media player to play music.
- 5. Press the start menu, select executive and type ping 192.168.0.3 –t (EUT), ping 192.168.1.3 –t (EUT), ping 192.168.0.2 –t (Server PC).

Note: Test program is self-repeating throughout the test.

4 SETUP OF EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Reference No.: T101221203-F Report No.: T110104202-F

EUT Devices:

TF-AGP-3175-A10-1010

No.	Equipment	Model No.	Trade Name
1	CPU (1.87GHz)	Celeron P4500	Intel
2	Memory (2GB / DDR3-1066)	J1108BDSE-DJ-F	ELPIDA
3	Power Supply	ENP-7025B	Enhance
4	SATA HDD (320GB)	ST3320418AS	Seagate

TF-AGP-3125HTT-A1-1010

No.	Equipment	Model No.	Trade Name
1	CPU (1.87GHz)	Celeron P4500	Intel
2	Memory (2GB / DDR3-1066)	J1108BDSE-DJ-F	ELPIDA
3	Power Supply	ENP-7025B	Enhance
4	HDD (160GB)	MK1665GSX	Toshiba

TF-AGP-3155HTT-A1-1010

No.	Equipment	Model No.	Trade Name
1	CPU (1.87GHz)	Celeron P4500	Intel
2	Memory (2GB / DDR3-1066)	J1108BDSE-DJ-F	ELPIDA
3	Power Supply	ENP-7025B	Enhance
4	HDD (160GB)	ST3160318AS	Seagate

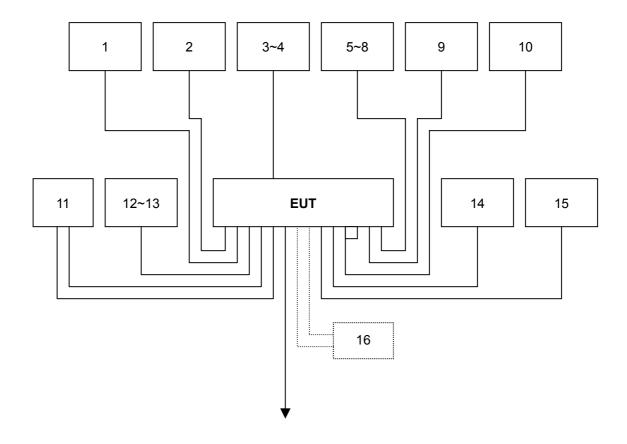
Peripherals Devices:

No.	Equipment	Model No.	Serial No.	FCC ID / BSMI ID	Trade Name	Data Cable	Power Cord
1	PS/2 Mouse	M071KC	443029438	DOC BSMI: R41108	DELL	Shielded, 1.5m	N/A
2	PS/2 Keyboard	SK-8110	N/A	DOC BSMI: T3A002	DELL	Shielded, 1.5m	N/A
3~8	USB HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
9	Player	RQ-L12LT	N/A	BSMI ID: 3912A162	Panasonic	Unshielded, 1.5m	N/A
10	Earphone & Microphone	MSB301	N/A	N/A	e-Sense	Unshielded, 1.5m	N/A
11	Monitor	2408WFPb	N/A	DOC BSMI: R41108	DELL	HDMI: Shielded, 1.5m DVI: Shielded, 1.5m with two cores	Unshielded, 1.8m
12	Modem	AL-56ERM	0MERM04A0212	DOC	GALILEO	Shielded, 1.0m	Unshielded, 1.8m
13	Modem	AL-56ERM	0MERM04A0215	DOC	GALILEO	Shielded, 1.0m	Unshielded, 1.8m
14	Modem	AL-56ERM	0MERM04A0224	DOC	GALILEO	Shielded, 1.0m	Unshielded, 1.8m
15	Monitor	710V	GS17H9NXA05869X	DOC BSMI: R33475	SAMSUNG	Shielded, 1.5m with two cores	Unshielded, 1.8m
16	Server PC	HD075AV	SGH948QGVW	DOC BSMI: R33001	HP	Unshielded, 30m X2	Unshielded, 1.8m

Note:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2. CONFIGURATION OF SYSTEM UNDER TEST



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5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at CCS Taiwan Sindian BU. at No.163-1, Jhongsheng Rd., Sindian City, Taipei County 23151, Taiwan.

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The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5.

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan	TAF
USA	A2LA

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada
Norway	Nemko
Japan	VCCI
Taiwan	BSMI
USA	FCC

Copies of granted accreditation certificates are available for downloading from our web site, http:///www.ccsrf.com

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty	
Conducted emissions	0.15MHz ~ 30MHz	± 1.19 (#A)	
Conducted emissions	0.15WH IZ ~ 30WH IZ	± 1.29 (#B)	
	30MHz ~ 1000MHz	± 3.83 (#I)	
	30101112 ~ 1000101112	± 3.83 (#J)	
Radiated emissions	1000MHz ~ 18000MHz	± 1.99	
	18000MHz ~ 26000MHz		
	26000MHz ~ 40000MHz	± 2.97	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22: 2005, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.

6 CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A	A (dBuV)	Class B (dBuV)		
FREQUENCY (MINZ)	Quasi-peak	Average	Quasi-peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.50 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

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NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

6.2. TEST INSTRUMENTS

Conducted Emission room # A							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due			
TEST RECEIVER	R&S	ESHS20	840455/006	02/28/2011			
LISN (EUT)	SCHWARZBECK	NSLK 8127	8127527	12/13/2011			
LISN	SCHWARZBECK	NSLK 8127	8127526	12/13/2011			
BNC CABLE	MIYAZAKI	5D-FB	BNC A5	02/01/2011			
THERMO- HYGRO METER	TECPEL	DTM-303	NO.3	11/18/2011			
Test S/W		EZ-EN	/IC				
	Conducted	Emission room #	‡ B				
TEST RECEIVER	R&S	ESCI	100234	06/13/2011			
LISN (EUT)	FCC	FCC-LISN-50-32-2	08009	03/25/2011			
LISN	EMCO	3825/2	1382	01/11/2011			
BNC CABLE	MIYAZAKI	5D-FB	BNC B3	08/10/2011			
Pulse Limiter	R&S	ESH3-Z2	100374	08/19/2011			
THERMO- HYGRO METER	TOP	HA-202	9303-3	01/31/2011			
Test S/W	EZ-EMC						

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

6.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

Procedure of Preliminary Test

• The EUT and support equipment, if needed, were set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.

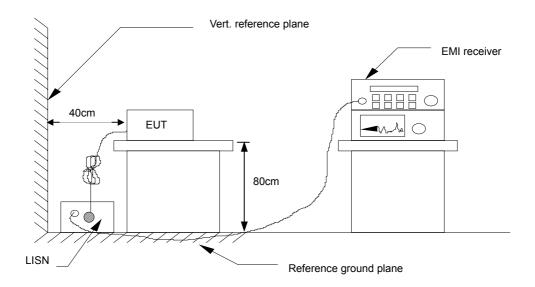
Reference No.: T101221203-F Report No.: T110104202-F

- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed by AC 120VAC/60Hz main power, through a Line Impedance Stabilization Network (LISN), which was supplied power source and was grounded to the ground plane.
- All support equipment power by from a second LISN.
- The test program of the EUT was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.

6.4. TEST SETUP



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 For the actual test configuration, please refer to the related item - Photographs of the Test Configuration.

6.5. DATA SAMPLE

Freq.	Reading	Factor	Result	Limit	Margin	Detector	Line
(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	(P/Q/A)	(L1/L2)
X.XX	42.95	0.55	43.50	73	-29.50	Q	

Freq. = Emission frequency in MHz

Reading = Uncorrected Analyzer/Receiver reading Factor = Insertion loss of LISN + Cable Loss

Result = Reading + Factor
Limit = Limit stated in standard
Margin = Reading in reference to limit

P = Peak Reading
Q = Quasi-peak Reading
A = Average Reading

L1 = Hot side L2 = Neutral side

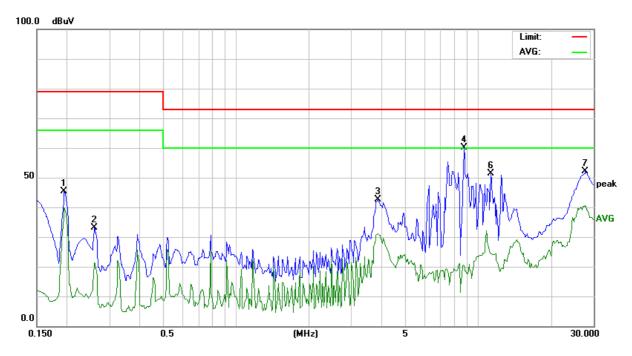
Calculation Formula

Margin (dB) = Result (dBuV) – Limit (dBuV)

6.6. TEST RESULTS

Model No.	TF-AGP-3175-A10-1010	6dB Bandwidth	10 kHz
Environmental Conditions	26deg.C, 60% RH, 1005hPa	6 RH, 1005hPa Test Mode	
Tested by	Pipo Hou	Phase	L1
Standard	FCC CLASS A		

Reference No.: T101221203-F Report No.: T110104202-F

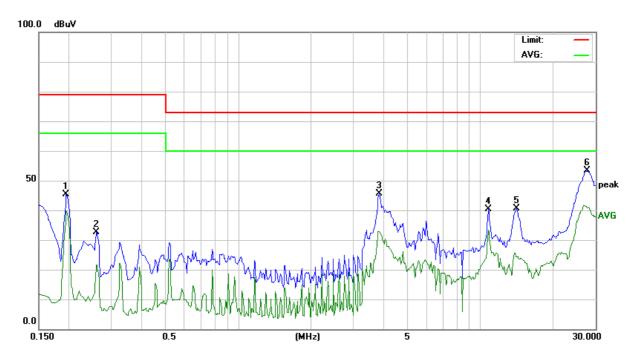


	Conducted Emission Readings						
Frequ	uency Rang	je Investiç	gated		150 kHz to	30 MHz	
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1949	45.35	0.08	45.43	79.00	-33.57	Р	L1
0.2600	33.05	0.08	33.13	79.00	-45.87	Р	L1
3.8600	42.33	0.41	42.74	73.00	-30.26	Р	L1
8.7400	59.53	0.49	60.02	73.00	-12.98	Р	L1
8.7400	20.01	0.49	20.50	60.00	-39.50	Α	L1
11.2600	50.90	0.59	51.49	73.00	-21.51	Р	L1
27.7700	50.73	1.28	52.01	73.00	-20.99	Р	L1

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

2. Those frequencies only show peak emission level because that was below the Average limit, so no need to check average anymore.

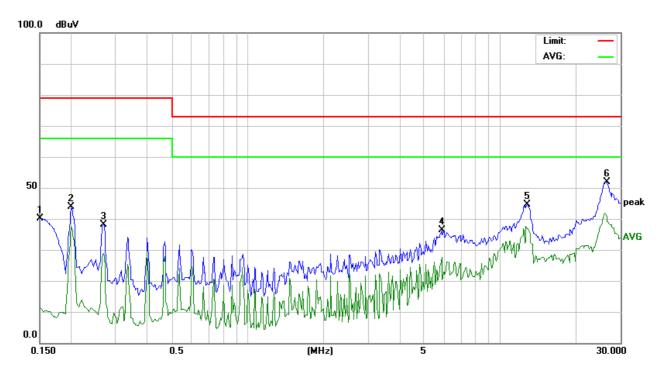
Model No.	TF-AGP-3175-A10-1010	6dB Bandwidth	10 kHz
Environmental Conditions	26deg.C, 60% RH, 1005hPa	Test Mode	Mode 1 (Worst)
Tested by	Pipo Hou	Phase	L2
Standard	ECC CLASS A		



	Conducted Emission Readings						
Frequency Range Investigated			150 kHz to 30 MHz				
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1949	45.33	0.08	45.41	79.00	-33.59	Р	L2
0.2600	32.62	0.07	32.69	79.00	-46.31	Р	L2
3.8200	45.27	0.29	45.56	73.00	-27.44	Р	L2
10.8200	39.71	0.56	40.27	73.00	-32.73	Р	L2
14.1600	40.05	0.70	40.75	73.00	-32.25	Р	L2
27.6400	52.08	1.30	53.38	73.00	-19.62	Р	L2

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

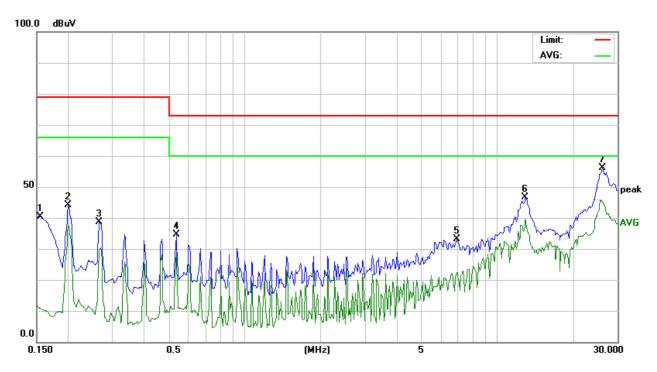
Model No.	TF-AGP-3125HTT-A1-1010	6dB Bandwidth	10 kHz
Environmental Conditions	20deg.C, 60% RH, 1003hPa	Test Mode	Mode 6
Tested by	Jason Lee	Phase	L1
Standard	ECC CLASS A		



	Conducted Emission Readings						
Frequency Range Investigated			150 kHz to 30 MHz				
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1500	39.98	0.10	40.08	79.00	-38.92	Р	L1
0.2000	43.84	0.09	43.93	79.00	-35.07	Р	L1
0.2700	38.04	0.09	38.13	79.00	-40.87	Р	L1
5.8800	35.97	0.38	36.35	73.00	-36.65	Р	L1
12.8300	44.10	0.56	44.66	73.00	-28.34	Р	L1
26.4600	51.04	0.92	51.96	73.00	-21.04	Р	L1

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

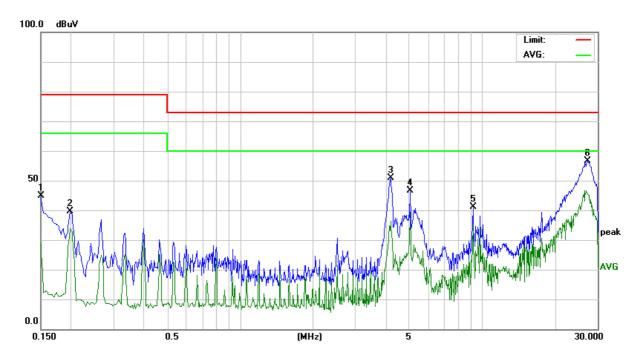
Model No.	TF-AGP-3125HTT-A1-1010	6dB Bandwidth	10 kHz
Environmental Conditions	20deg.C, 60% RH, 1003hPa	Test Mode	Mode 6
Tested by	Jason Lee	Phase	L2
Standard	ECC CLASS A		



	Conducted Emission Readings						
Frequency Range Investigated				150 kHz to	30 MHz		
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1550	40.37	0.08	40.45	79.00	-38.55	Р	L2
0.2000	43.94	0.08	44.02	79.00	-34.98	Р	L2
0.2649	38.53	0.08	38.61	79.00	-40.39	Р	L2
0.5350	34.57	0.09	34.66	73.00	-38.34	Р	L2
6.9500	32.61	0.40	33.01	73.00	-39.99	Р	L2
12.9600	46.16	0.56	46.72	73.00	-26.28	Р	L2
26.2000	55.16	0.89	56.05	73.00	-16.95	Р	L2

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

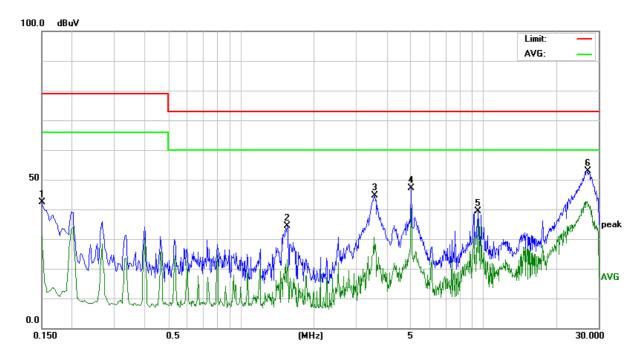
Model No.	TF-AGP-3155HTT-A1-1010	6dB Bandwidth	10 kHz
Environmental Conditions	24deg.C, 60% RH, 1004hPa	Test Mode	Mode 7
Tested by	John Yen	Phase	L1
Standard	ECC CLASS A		



	Conducted Emission Readings						
Frequency Range Investigated				150 kHz to	30 MHz		
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1500	34.07	10.84	44.91	79.00	-34.09	Р	L1
0.1980	28.89	10.83	39.72	79.00	-39.28	Р	L1
4.1940	40.05	10.71	50.76	73.00	-22.24	Р	L1
5.0380	35.94	10.74	46.68	73.00	-26.32	Р	L1
9.1620	30.27	10.85	41.12	73.00	-31.88	Р	L1
27.3620	45.38	11.33	56.71	73.00	-16.29	Р	L1

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

Model No.	TF-AGP-3155HTT-A1-1010	6dB Bandwidth	10 kHz
Environmental Conditions	24deg.C, 60% RH, 1004hPa	Test Mode	Mode 7
Tested by	John Yen	Phase	L2
Standard	ECC CLASS A		



	Conducted Emission Readings						
Frequency Range Investigated			150 kHz to 30 MHz				
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1500	31.67	10.62	42.29	79.00	-36.71	Р	L2
1.5500	23.76	10.61	34.37	73.00	-38.63	Р	L2
3.5660	34.01	10.64	44.65	73.00	-28.35	Р	L2
5.0420	36.34	10.67	47.01	73.00	-25.99	Р	L2
9.5300	28.65	10.79	39.44	73.00	-33.56	Р	L2
27.2420	41.64	11.28	52.92	73.00	-20.08	Р	L2

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1GHz (for digital device)

FREQUENCY (MHz)	dBuV/m (At 10m)		
TREGOLITOT (WITZ)	Class A	Class B	
30 ~ 230	40	30	
230 ~ 1000	47	37	

Reference No.: T101221203-F

Report No.: T110104202-F

Limit tables for non-digital device:

Class A Radiated Emission limit at 10m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	90	39
88 - 216	150	43.5
216 – 960	210	46.4
Above 960	300	49.5

Class B Radiated Emission limit at 3m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	100	40
88 - 216	150	43.5
216 – 960	200	46
Above 960	500	54

Above 1GHz(for all device)

Frequency	Class A (dBu	V/m) (At 10m)	Class B (dBuV/m) (At 3m)		
(MHZ)	(MHZ) Average P		Average	Peak	
Above 1000	49.5	69.5	54	74	

NOTE: (1) The lower limit shall apply at the transition frequencies.

- (2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
- (3) The measurement above 1GHz is at close-in distances 3m,and determine the limit L2 corresponding to the close-in distance d2 by applying the following relation: L2 = L1 (d1/d2), where L1 is the specified limit in microvolts per metre (uV/m) at the distance d1 (10m), L2 is the new limit for distance d2 (3m).

So the new Class A limit above 1GHz at 3m is as following table:

Frequency	Class A (dBuV/m) (At 3m)				
(MHZ)	Average	Peak			
Above 1000	60	80			

According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Reference No.: T101221203-F Report No.: T110104202-F

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)		
Below 1.75	30		
1.75-108	1000		
108-500	2000		
500-1000	5000		
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower		

7.2. TEST INSTRUMENTS

Open Area Test Site # I										
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due						
MEASURE RECEIVER	SCHAFFNER	SCR3501	338	07/05/2011						
SPECTRUM ANALYZER	ADVANTEST	R3132	120900008	No Calibration Required						
ANTENNA	SCHAFFNER	CBL 6112B	2809	10/03/2011						
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/10/2011						
CABLE	BELDEN	9913	N-TYPE #I2	02/21/2011						
THERMO- HYGRO METER	TECPEL	DTM-303	090639	05/23/2011						
Test S/W		EZ-E	MC							
	Open	Area Test Site # J								
MEASURE RECEIVER	SCHAFFNER	SCR3501	330	06/09/2011						
SPECTRUM ANALYZER	ADVANTEST	R3132	120900002	No Calibration Required						
ANTENNA	SCHAFFNER	CBL 6112B	2800	10/07/2011						
PRE- AMPLIFIER	SCHAFFNER	CPA9231A	3613	06/03/2011						
CABLE	BELDEN	9913	N-TYPE #J3	01/22/2011						
THERMO- HYGRO METER	TECPEL	DTM-303	090639	05/23/2011						
Test S/W EZ-EMC										
	Ab	ove 1GHz Used								
MEASURE RECEIVER	SCHAFFNER	SCR3501	342	06/28/2011						
SPECTRUM ANALYZER (9kHz-30GHz)	R&S	FSP 30	100112	12/07/2011						
ANTENNA (30-1000MHz)	SUNOL	JB1	A022310	03/07/2011						
ANTENNA (1-18GHz)	EMCO	3115	00022256	01/14/2011						
PRE- AMPLIFIER	EMCI	EMC330	980022	02/04/2011						
AMPLIFIER (1-18GHz)	HP	8449B	3008A01266	12/19/2011						
RF SWITCH	EMEC	EMSW18	60432	01/21/2011						
CABLE (30-1000MHz)	HUBER +SUHNER	SUCOFLEX 102	33105/2	01/21/2011						
CABLE (1-40GHz)	HUBER +SUHNER	SUCOFLEX 102	33106/2	12/19/2011						
CABLE (18-40GHz)	HUBER +SUHNER	SUCOFLEX 102	33633/2	12/19/2011						
CABLE (1-26.5GHz)	HUBER +SUHNER	SUCOFLEX 104PEA	33959/4PEA	12/19/2011						
CABLE (1-26.5GHz)	HUBER +SUHNER	SUCOFLEX 104PEA	33960/4PEA	12/19/2011						
CABLE (30-1000MHz)	EMCI	EMCI-C-14	CH-D#13	04/05/2011						
ATTENUATOR	MCL	BW-S6W5	CH-D#14	04/05/2011						
THERMO- HYGRO METER	TECPEL	DTM-303	NO.3	11/18/2011						
LOOP ANTENNA	EMCO	6502	8905-2356	06/10/2013						
Test S/W		EZ-E	MC							

Reference No.: T101221203-F Report No.: T110104202-F

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

^{2.} N.C.R = No Calibration Request.

7.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

Procedure of Preliminary Test

• The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.

Reference No.: T101221203-F Report No.: T110104202-F

- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC 120VAC/60Hz power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

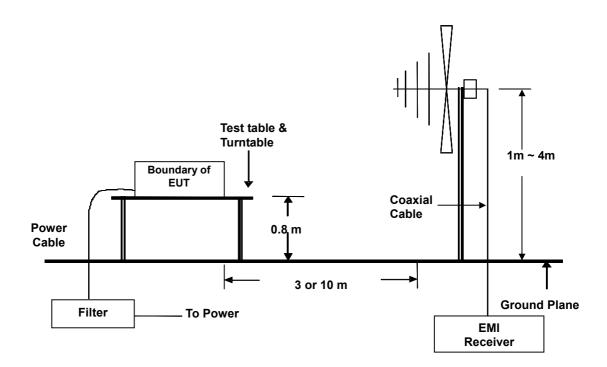
Procedure of Final Test

• EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.

Reference No.: T101221203-F Report No.: T110104202-F

- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 or 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recording at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. Below 1GHz the Q.P. reading and above 1GHz the Peak and Average reading are presented.
- The test data of the worst-case condition(s) was recorded.

7.4. TEST SETUP



 For the actual test configuration, please refer to the related item - Photographs of the Test Configuration. 7.5. DATA SAMPLE

Below 1GHz

Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/Q)	Pol. (H/V)
X.XX	14.0	12.2	26.2	40	-13.8	Q	Н

Reference No.: T101221203-F Report No.: T110104202-F

Above 1GHz

Freq.	Reading	Factor	Result	Limit	Margin	Detector	Pol.
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(P/A)	(H/V)
X.XX	42.95	0.55	43.50	60	-16.50	Α	

Freq. = Emission frequency in MHz

Reading = Uncorrected Analyzer/Receiver reading Factor = Antenna Factor + Cable Loss - Amplifier Gain

Result = Reading + Factor
Limit = Limit stated in standard
Margin = Reading in reference to limit

P = Peak Reading
Q = Quasi-peak Reading
A = Average Reading

H = Antenna Polarization: Horizontal V = Antenna Polarization: Vertical

Calculation Formula

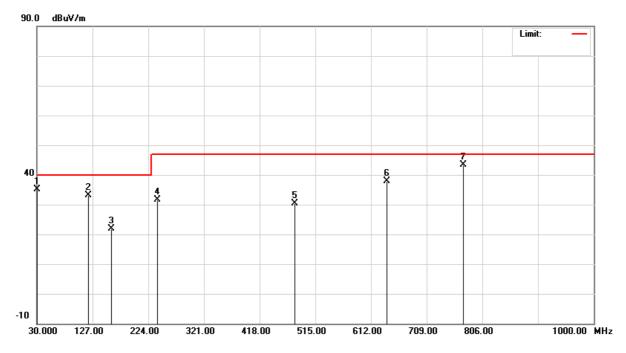
Margin (dB) = Result (dBuV/m) - Limit (dBuV/m)

7.6. TEST RESULTS

Below 1GHz

Model No.	TF-AGP-3175-A10-1010	Test Mode	Mode 2 (Worst)				
Environmental Conditions	22deg.C, 53% RH, 1005hPa	6dB Bandwidth	120 kHz				
Antenna Pole	Vertical	Antenna Distance	10m				
Detector Function	Quasi-peak.	si-peak. Tested by					
Standard	FCC CLASS A W/ EN 55022 CLASS A LIMIT						

Reference No.: T101221203-F Report No.: T110104202-F

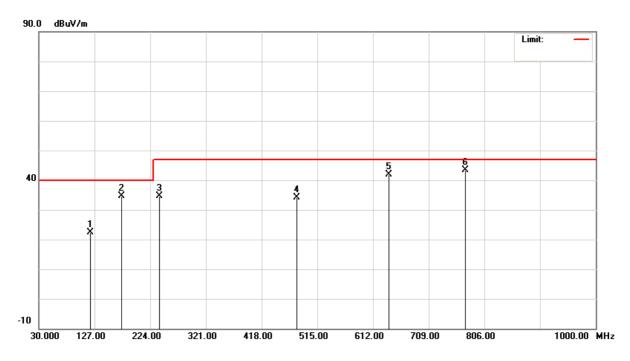


Radiated Emission Readings										
Frequency Range Investigated					30 MHz to 1000 MHz at 10m					
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Lin (dBu)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)
30.7700	46.50	-11.28	35.22	40.00		-4.78	100	121	Q	V
120.0000	48.60	-15.47	33.13	40.	00	-6.87	100	35	Q	V
159.7400	39.20	-17.20	22.00	40.	00	-18.00	100	61	Q	V
240.0000	47.00	-15.25	31.75	47.	00	-15.25	100	233	Q	٧
480.0400	38.40	-8.09	30.31	47.	00	-16.69	400	62	Q	V
639.5000	43.00	-5.04	37.96	47.	00	-9.04	400	99	Q	٧
772.5400	47.20	-3.74	43.46	47.	00	-3.54	400	111	Q	٧

- 2. The other emission levels were very low against the limit.
- 3. P= Peak Reading; Q= Quasi-peak Reading.

Model No. TF-AGP-3175-A10-1010 **Test Mode** Mode 2 (Worst) **Environmental** 22deg.C, 53% RH, 1005hPa 6dB Bandwidth 120 kHz **Conditions** 10m **Antenna Pole** Horizontal **Antenna Distance Detector Function** Quasi-peak. Tested by Pipo Hou Standard FCC CLASS A W/ EN 55022 CLASS A LIMIT

Reference No.: T101221203-F Report No.: T110104202-F

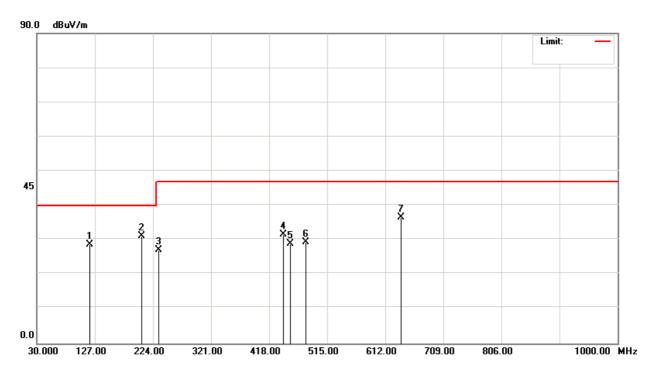


	Radiated Emission Readings										
Frequency Range Investigated					30 MHz to 1000 MHz at 10m						
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)	
120.0060	37.90	-15.47	22.43	40.00		-17.57	400	222	Q	Н	
174.7200	52.50	-17.79	34.71	40.	00	-5.29	400	61	Q	Н	
240.0040	50.00	-15.25	34.75	47.	.00	-12.25	400	360	Q	Н	
480.0600	42.10	-8.09	34.01	47.	.00	-12.99	100	340	Q	Н	
639.2800	47.00	-5.04	41.96	47.	.00	-5.04	100	214	Q	Н	
772.5400	47.10	-3.74	43.36	47.	00	-3.64	100	111	Q	Н	

- 2. The other emission levels were very low against the limit.
- 3. P= Peak Reading; Q= Quasi-peak Reading.

Model No. TF-AGP-3125HTT-A1-1010 **Test Mode** Mode 4 **Environmental** 26deg.C, 78% RH, 1006hPa 6dB Bandwidth 120 kHz **Conditions Antenna Pole** Vertical **Antenna Distance** 10m **Detector Function** Quasi-peak. Tested by Jason Lee Standard FCC CLASS A W/ EN 55022 CLASS A LIMIT

Reference No.: T101221203-F Report No.: T110104202-F

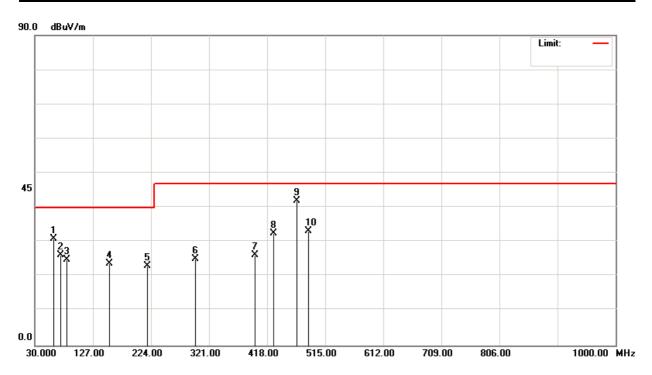


	Radiated Emission Readings										
Frequency Range Investigated					30 MHz to 1000 MHz at 10m						
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Lin (dBu)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)	
119.2000	44.00	-15.28	28.72	40.00		-11.28	100	121	Q	V	
205.1000	48.50	-17.38	31.12	40.	00	-8.88	100	35	Q	٧	
233.4800	42.90	-15.73	27.17	47.	00	-19.83	100	162	Q	٧	
442.2800	40.00	-8.48	31.52	47.	00	-15.48	400	232	Q	٧	
453.8400	37.00	-8.19	28.81	47.	00	-18.19	400	336	Q	٧	
480.0000	37.00	-7.66	29.34	47.	00	-17.66	400	148	Q	٧	
639.1400	41.20	-4.53	36.67	47.	00	-10.33	400	159	Q	V	

- 2. The other emission levels were very low against the limit.
- 3. P= Peak Reading; Q= Quasi-peak Reading.

Model No. TF-AGP-3125HTT-A1-1010 **Test Mode** Mode 4 **Environmental** 26deg.C, 78% RH, 1006hPa 6dB Bandwidth 120 kHz **Conditions Antenna Pole** Horizontal **Antenna Distance** 10m **Detector Function** Quasi-peak. Tested by Jason Lee Standard FCC CLASS A W/ EN 55022 CLASS A LIMIT

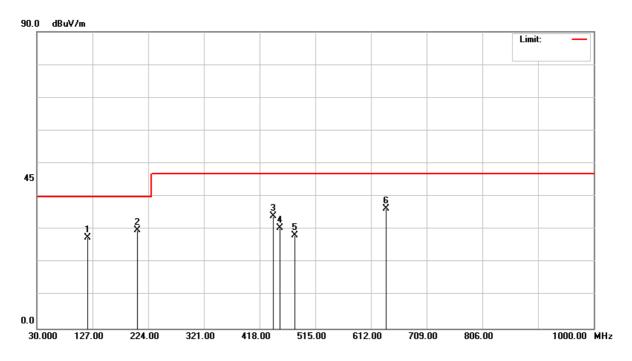
Reference No.: T101221203-F Report No.: T110104202-F



Radiated Emission Readings										
Frequency Range Investigated					30 MHz to 1000 MHz at 10m					
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Lin (dBu)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)
62.1200	52.32	-21.40	30.92	40.	.00	-9.08	400	232	Q	Н
73.7400	47.30	-21.02	26.28	40.	.00	-13.72	400	52	Q	Н
83.8200	44.50	-19.60	24.90	40.	.00	-15.10	400	163	Q	Н
154.4900	40.10	-16.44	23.66	40.	.00	-16.34	400	256	Q	Н
218.4000	40.50	-17.43	23.07	40.	.00	-16.93	400	73	Q	Н
298.5000	38.00	-12.80	25.20	47.	.00	-21.80	400	114	Q	Н
398.0000	35.80	-9.68	26.12	47.	.00	-20.88	400	32	Q	Н
429.6000	41.25	-8.82	32.43	47.	.00	-14.57	100	165	Q	Н
467.6000	49.86	-7.91	41.95	47.	.00	-5.05	100	44	Q	Н
486.9200	40.70	-7.52	33.18	47.	.00	-13.82	100	113	Q	Н

- 2. The other emission levels were very low against the limit.
- 3. P= Peak Reading; Q= Quasi-peak Reading.

Model No.	TF-AGP-3155HTT-A1-1010	Test Mode	Mode 7			
Environmental Conditions	22deg.C, 75% RH, 1005hPa	6dB Bandwidth	120 kHz			
Antenna Pole	Vertical	Antenna Distance	10m			
Detector Function	Quasi-peak.	Tested by	John Yen			
Standard	FCC CLASS A W/ EN 55022 CLASS A LIMIT					

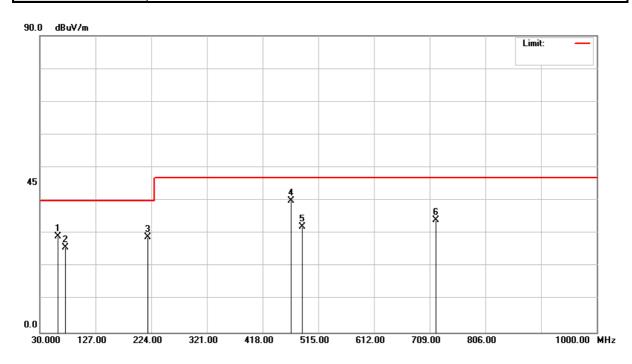


	Radiated Emission Readings													
Frequency Range Investigated						30 MHz to 1000 MHz at 10m								
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)				
119.1850	43.10	-15.52	27.58	40.00		-12.42	100	125	Q	٧				
205.2900	47.50	-17.71	29.79	40.	.00	-10.21	100	28	Q	٧				
442.2510	42.90	-8.76	34.14	47.	.00	-12.86	400	65	Q	٧				
453.1260	38.90	-8.48	30.42	47.	.00	-16.58	400	47	Q	٧				
480.0020	36.40	-8.09	28.31	47.	.00	-18.69	400	42	Q	٧				
639.1112	41.30	-5.04	36.26	47.	00	-10.74	400	96	Q	V				

- 2. The other emission levels were very low against the limit.
- 3. P= Peak Reading; Q= Quasi-peak Reading.

Model No. TF-AGP-3155HTT-A1-1010 **Test Mode** Mode 7 **Environmental** 22deg.C, 75% RH, 1005hPa 6dB Bandwidth 120 kHz **Conditions Antenna Pole** Horizontal **Antenna Distance** 10m **Detector Function** Quasi-peak. Tested by John Yen Standard FCC CLASS A W/ EN 55022 CLASS A LIMIT

Reference No.: T101221203-F Report No.: T110104202-F



	Radiated Emission Readings													
Fr	equency R	ange Inves	tigated	30 MHz to 1000 MHz at 10m										
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)				
62.1360	51.20	-21.97	29.23	40.	.00	-10.77	400	125	Q	Н				
74.1020	47.10	-21.40	25.70	40.	00	-14.30	400	82	Q	Н				
218.1510	46.40	-17.59	28.81	40.	.00	-11.19	400	261	Q	Н				
467.1630	48.20	-8.28	39.92	47.	.00	-7.08	100	82	Q	Н				
486.8580	40.10	-7.98	32.12	47.	.00	-14.88	100	163	Q	Н				
720.0020	38.70	-4.52	34.18	47.	00	-12.82	100	38	Q	Н				

- 2. The other emission levels were very low against the limit.
- 3. P= Peak Reading; Q= Quasi-peak Reading.

Above 1GHz

Model No.	TF-AGP-3175-A10-1010	Test Mode	Mode 2
Environmental Conditions	26deg.C, 60% RH, 1007hPa	6dB Bandwidth	1 MHz
Antenna Pole	Vertical / Horizontal	Antenna Distance	3m
Highest frequency generated or used	1870MHz	Upper frequency	9350MHz
Detector Function	Peak or average.	Tested by	Jason Lee
Standard	FCC CLASS A		

Reference No.: T101221203-F Report No.: T110104202-F

	Radiated Emission Readings													
Frequency Range Investigated							Above 1	GHz at 3n	n					
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/A)	Pol. (H/V)				
1487.500	72.76	-6.87	65.89	80.00		-14.11	100	212	Р	V				
1489.342	47.89	-6.87	41.02	60.00		-18.98	100	286	Α	V				
1700.000	65.53	-5.60	59.93	80.	00	-20.07	100	44	Р	V				
1704.888	41.40	-5.57	35.83	60.	00	-24.17	100	307	Α	٧				
1862.500	53.79	-4.63	49.16	80.	00	-30.84	100	57	Р	٧				
2562.500	51.84	-1.79	50.05	80.	00	-29.95	100	85	Р	V				
3612.500	51.31	2.60	53.91	80.	00	-26.09	100	175	Р	V				
4687.500	47.12	5.07	52.19	80.	00	-27.81	100	242	Р	٧				

	Radiated Emission Readings													
Fr	equency R	ange Inves	tigated	Above 1GHz at 3m										
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Lin (dBu)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/A)	Pol. (H/V)				
1487.500	76.18	-6.87	69.31	80.	00	-10.69	100	111	Р	Н				
1489.852	50.85	-6.87	43.98	60.	00	-16.02	100	212	Α	Н				
1700.000	65.56	-5.60	59.96	80.	00	-20.04	100	21	Р	Н				
1703.460	41.75	-5.58	36.17	60.	00	-23.83	100	347	Α	Н				
1912.500	53.83	-4.33	49.50	80.	00	-30.50	100	44	Р	Н				
2550.000	54.52	-1.85	52.67	80.	00	-27.33	100	247	Р	Н				
3625.000	51.84	2.65	54.49	80.	00	-25.51	100	214	Р	Н				
4687.500	46.79	5.07	51.86	80.	00	-28.14	100	111	Р	Н				

Note: 1. The other emission levels were very low against the limit.

2. P= Peak Reading; A= Average Reading.

Model No. TF-AGP-3125HTT-A1-1010 **Test Mode** Mode 4 **Environmental** 26deg.C, 60% RH, 1005hPa 6dB Bandwidth 1 MHz **Conditions Antenna Pole** Vertical / Horizontal **Antenna Distance** 3m Highest frequency Upper frequency 1870MHz 9350MHz generated or used **Detector Function** Peak or average. Tested by Jason Lee **Standard** FCC CLASS A

Reference No.: T101221203-F Report No.: T110104202-F

	Radiated Emission Readings													
Fr	equency R	ange Inves	tigated			Above 1	GHz at 3n	n						
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/A)	Pol. (H/V)				
1200.000	51.82	-9.34	42.48	80.00		-37.52	100	233	Р	V				
1355.000	51.31	-8.48	42.83	80.	00	-37.17	100	306	Р	٧				
1525.000	53.73	-7.53	46.20	80.	00	-33.80	100	211	Р	٧				
1590.000	55.15	-7.11	48.04	80.	00	-31.96	100	72	Р	٧				
1680.000	52.86	-6.52	46.34	80.	00	-33.66	100	51	Р	٧				
1915.000	48.10	-5.01	43.09	80.	00	-36.91	100	0	Р	٧				

	Radiated Emission Readings													
Frequency Range Investigated						Above 1GHz at 3m								
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/A)	Pol. (H/V)				
1065.000	51.98	-10.07	41.91	80.00		-38.09	100	121	Р	Н				
1200.000	56.09	-9.34	46.75	80.	00	-33.25	100	35	Р	Н				
1485.000	53.67	-7.77	45.90	80.	.00	-34.10	100	61	Р	Н				
1680.000	51.44	-6.52	44.92	80.	.00	-35.08	100	72	Р	Н				
2770.000	46.98	-1.47	45.51	80.	.00	-34.49	100	52	Р	Н				
3005.000	44.76	-0.34	44.42	80.	.00	-35.58	100	232	Р	Н				

Note: 1. The other emission levels were very low against the limit.

2. P= Peak Reading; A= Average Reading.

Model No.	TF-AGP-3155HTT-A1-1010	Test Mode	Mode 7
Environmental Conditions	16deg.C, 60% RH, 1002hPa	6dB Bandwidth	1 MHz
Antenna Pole	Vertical / Horizontal	Antenna Distance	3m
Highest frequency generated or used	1870MHz	Upper frequency	9350MHz
Detector Function	Peak or average.	Tested by	Jason Lee
Standard	FCC CLASS A		

	Radiated Emission Readings													
Fr	equency R	ange Inves	tigated			Above 1	GHz at 3n	n						
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/A)	Pol. (H/V)				
1050.000	53.43	-10.16	43.27	80.	00	-36.73	100	189	Р	٧				
1200.000	62.24	-9.34	52.90	80.	00	-27.10	100	181	Р	٧				
1250.000	60.06	-9.07	50.99	80.	00	-29.01	100	257	Р	٧				
1500.000	53.40	-7.69	45.71	80.	00	-34.29	100	263	Р	٧				
1800.000	50.92	-5.75	45.17	80.	00	-34.83	100	359	Р	٧				
2400.000	48.29	-3.10	45.19	80.	00	-34.81	100	278	Р	٧				

	Radiated Emission Readings													
Frequency Range Investigated							Above 1	GHz at 3n	n					
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/A)	Pol. (H/V)				
1180.000	59.06	-9.44	49.62	80.00		-30.38	100	135	Р	Н				
1248.460	48.09	-9.07	39.02	60.	00	-20.98	100	259	Α	Н				
1250.000	65.67	-9.07	56.60	80.	00	-23.40	100	317	Р	Н				
1295.000	63.16	-8.81	54.35	80.	00	-25.65	100	320	Р	Н				
1495.000	53.44	-7.72	45.72	80.	00	-34.28	100	191	Р	Н				
1915.000	49.89	-5.01	44.88	80.	00	-35.12	100	183	Р	Н				
2765.000	49.59	-1.50	48.09	80.	00	-31.91	100	171	Р	Н				

Note: 1. The other emission levels were very low against the limit.

2. P= Peak Reading; A= Average Reading.

B PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST

Model Number: TF-AGP-3175-A10-1010

Reference No.: T101221203-F Report No.: T110104202-F





CONDUCTED EMISSION TEST

Reference No.: T101221203-F Report No.: T110104202-F

Model Number: TF-AGP-3125HTT-A1-1010





CONDUCTED EMISSION TEST

Reference No.: T101221203-F Report No.: T110104202-F

Model Number: TF-AGP-3155HTT-A1-1010





RADIATED EMISSION TEST

Reference No.: T101221203-F Report No.: T110104202-F

Model Number: TF-AGP-3175-A10-1010

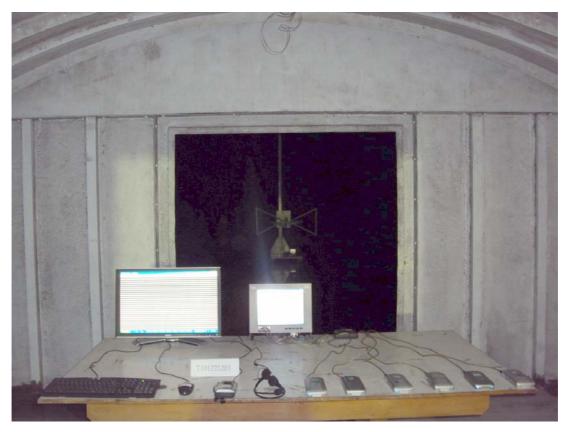




RADIATED EMISSION TEST

Reference No.: T101221203-F Report No.: T110104202-F

Model Number: TF-AGP-3125HTT-A1-1010





RADIATED EMISSION TEST

Reference No.: T101221203-F Report No.: T110104202-F

Model Number: TF-AGP-3155HTT-A1-1010



