



FCC Test Report

FCC ID:2ACMBLEARNI

Product : Tablet PC &

Trade Name : N/A

Model Name : Learnit and Blast Tablet

Serial Model : B for blast L for Learnit

Report No. : NTEK-2015NT07012160F1

Prepared for

Caribbean eBook Ltd.

38 Oak Street, Hyde Park, Massachusetts, United States 02136

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street,
Bao'an District, Shenzhen P.R. China

Tel.: +86-0755-61156588 Fax.: +86-0755-61156599

Website: www.ntek.org.cn

TEST RESULT CERTIFICATION

Applicant's name : Caribbean eBook Ltd.
Address : 38 Oak Street, Hyde Park, Massachusetts, United States
 02136
Manufacture's Name : DONGGUAN DIGI-IN DIGITAL TECHNOLOGY CO.,LTD.
Address : Jiatian Industrial Park, Wulian, Fenggang Town, Dongguan,
 Guangdong Province,P.R.C

Product description

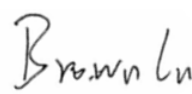
Product name : Tablet PC &
Model and/or type reference : Learnit and Blast Tablet
 FCC Part15B:01 Oct.2014
Standards : ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personnel only, and shall be noted in the revision of the document.

Date of Test :
Date (s) of performance of tests : 01 Jul. 2015 ~04 Aug. 2015
Date of Issue : 04 Aug. 2015
Test Result : **Pass**

Testing Engineer : 
 (Allen Liu)

Technical Manager : 
 (Brown Lu)

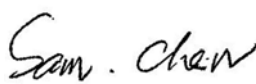
Authorized Signatory : 
 (Sam Chen)

Table of Contents	Page
1 . TEST SUMMARY	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST SETUP	8
2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	9
2.4 MEASUREMENT INSTRUMENTS LIST	10
3 . EMC EMISSION TEST	11
3.1 CONDUCTED EMISSION MEASUREMENT	11
3.1.1 POWER LINE CONDUCTED EMISSION	11
3.1.2 TEST PROCEDURE	12
3.1.3 TEST SETUP	12
3.1.4 EUT OPERATING CONDITIONS	12
3.1.5 TEST RESULTS	13
3.2 RADIATED EMISSION MEASUREMENT	21
3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	21
3.2.2 TEST PROCEDURE	21
3.2.3 TEST SETUP	22
3.2.4 TEST RESULTS	23
3.2.5 TEST RESULTS(1000~12400MHz)	25
4 . EUT TEST PHOTO	26

1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B:2014 ANSI C63.4: 2014	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet PC &	
Model Name	Learnit and Blast Tablet	
Additional Model Number(s)	B for blast L for Learnit	
Model Difference	All the model are the same circuit and RF module, except the model name and colour.	
Product Description	The EUT is a Tablet PC & .	
	Connecting I/O port:	USB, DC in,HDMI
	Operation Frequency:	BT:2402~2480 MHz WIFI: 802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz
	Modulation Type:	BT(1Mbps)/4.0: GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8-DPSK IEEE 802.11b : DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20/HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Power Source	DC Voltage	
Adapter	Mode : XHY050200UUCH Input: 100-240V~, 50/60Hz, 0.5A MAX Output: 5.0V---, 2.0A	
Battery	DC 3.7V, 2500mAh	

2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Data Exchange Mode
Mode 2	camera Mode
Mode 3	Wifi Mode
Mode 4	BT Mode
Mode 5	HDMI Mode
Mode 6	TF Card Playing Mode+Charging

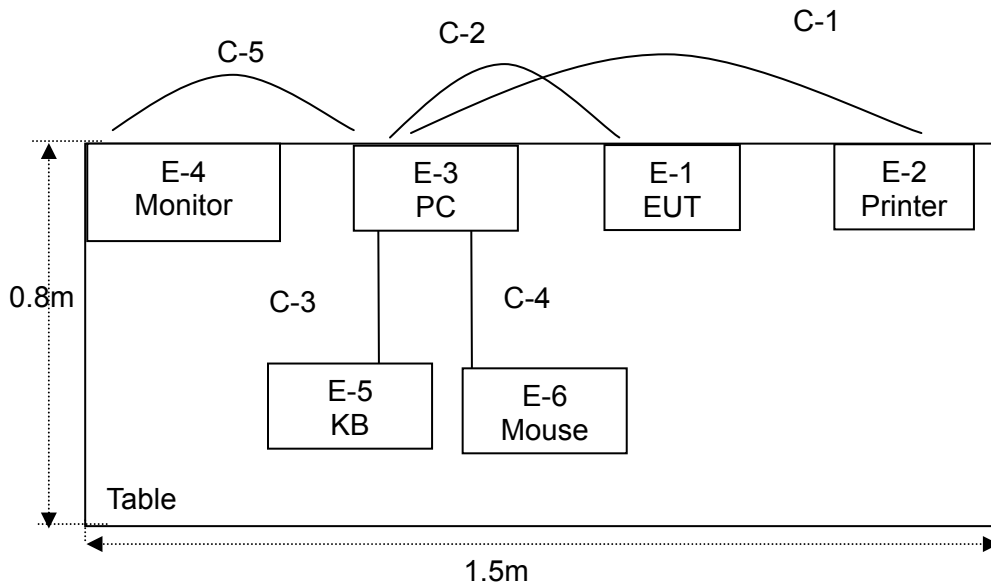
For Conducted Test	
Final Test Mode	Description
Mode 1	Data Exchange Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	Data Exchange Mode

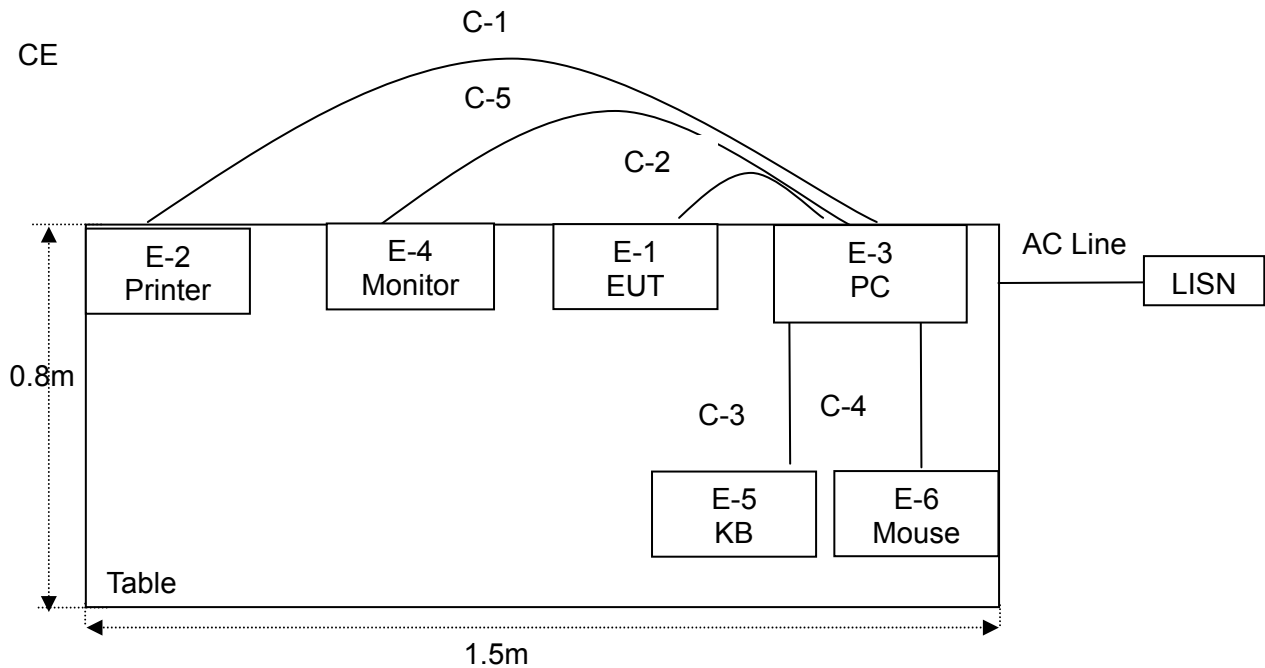
Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worse case.
Only the worst case mode is recorded in the report.

2.2 DESCRIPTION OF TEST SETUP

RE



CE



2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Tablet PC &	N/A	Learnit and Blast Tablet	N/A	EUT
E-2	Printer	Canon	L11121E	LBP2900	
E-3	Personal computer	DELL	FT4Y23X	34413561645	
E-4	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67es	
E-5	Keyboard	DELL	SK-8185	OY526KUS	
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	1.0m	
C-3	NO	NO	1.0m	
C-4	NO	NO	1.0m	
C-5	NO	NO	1.0m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded” “with core”; “NO” means “unshielded” “without core”.

2.4 MEASUREMENT INSTRUMENTS LIST

2.4.1 CONDUCTED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	LISN	R&S	ENV216	101313	Jul. 06, 2015	Jul. 05, 2016	1 year
2	LISN	SCHWARZBECK	NNLK 8129	8129245	Dec. 25, 2014	Dec. 24, 2015	1 year
3	Pulse Limiter	SCHWARZBECK	VTSD 9561F	9716	Dec. 25, 2014	Dec. 24, 2015	1 year
4	50Ω Switch	ANRITSU CORP	MP59B	6200983704	Jul. 06, 2015	Jul. 05, 2016	1 year
5	Test Cable	N/A	C01	N/A	Jul. 06, 2015	Jul. 05, 2016	1 year
6	Test Cable	N/A	C02	N/A	Jul. 06, 2015	Jul. 05, 2016	1 year
7	Test Cable	N/A	C03	N/A	Jul. 06, 2015	Jul. 05, 2016	1 year
8	EMI Test Receiver	R&S	ESCI	101160	Jul. 06, 2015	Jul. 05, 2016	1 year
9	Passive Voltage Probe	ESH2-Z3	R&S	100196	Jul. 06, 2015	Jul. 05, 2016	1 year
10	Absorbing Clamp	R&S	MDS-21	100423	Jul. 08, 2015	Jul. 07, 2016	1 year

2.4.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06, 2015	Jul. 05, 2016	1 year
2	Test Cable	N/A	R-01	N/A	Dec. 25, 2014	Dec. 24, 2015	1 year
3	Test Cable	N/A	R-02	N/A	Dec. 25, 2014	Dec. 24, 2015	1 year
4	EMI Test Receiver	R&S	ESCI-7	101318	Jul. 06, 2015	Jul. 05, 2016	1 year
5	Antenna Mast	EM	SC100_1	N/A	N/A	N/A	N/A
6	Turn Table	EM	SC100	060531	N/A	N/A	N/A
7	50Ω Switch	Anritsu Corp	MP59B	6200983705	Jul. 06, 2015	Jul. 05, 2016	1 year
8	Spectrum Analyzer	Aglient	E4407B	MY45108040	Jul. 06, 2015	Jul. 05, 2016	1 year
9	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06, 2015	Jul. 05, 2016	1 year
10	Amplifier	EM	EM-30180	060538	Jul. 06, 2015	Jul. 05, 2016	1 year
11	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06, 2015	Jul. 05, 2016	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

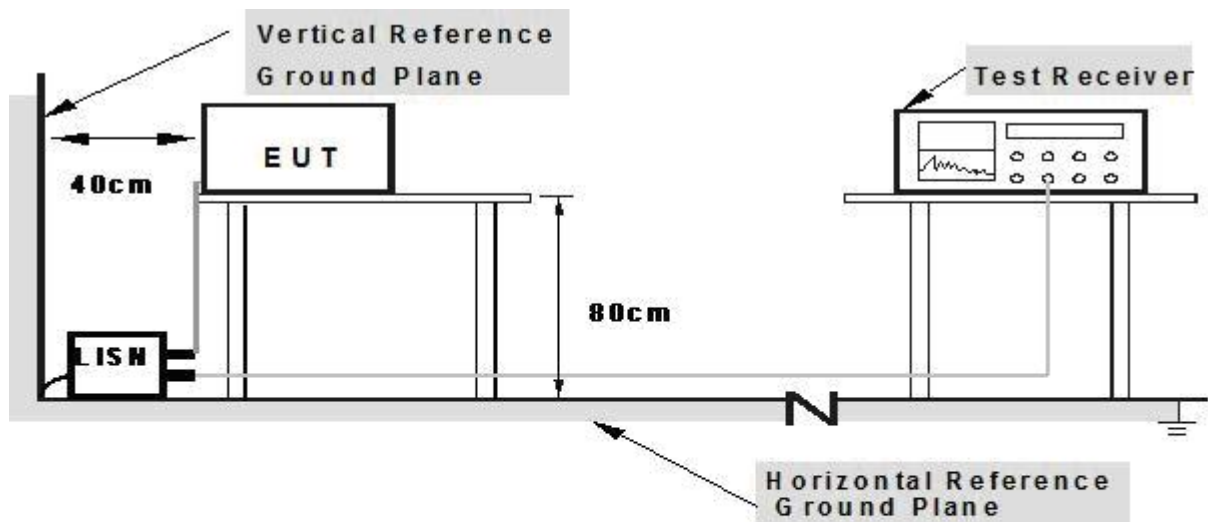
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

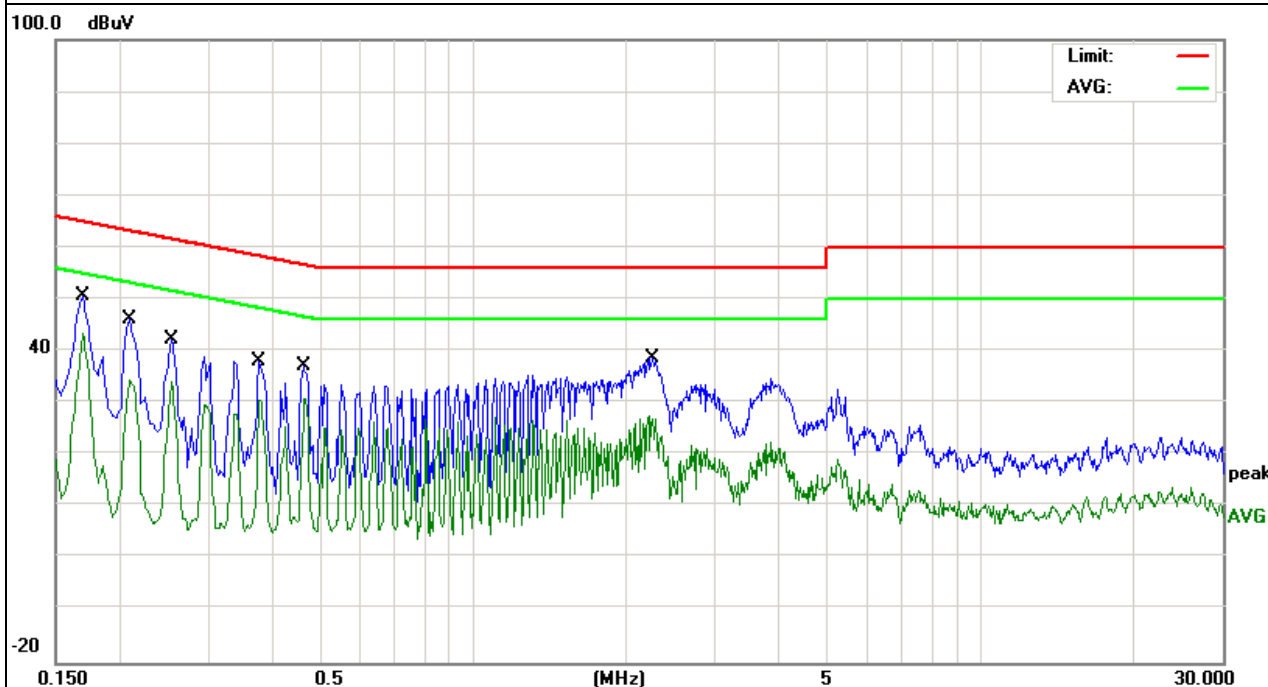
3.1.5 TEST RESULTS

EUT :	Tablet PC &	Model Name. :	Learnit and Blast Tablet
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-07-30
Test Mode :	Mode 1	Phase :	L
Test Voltage :	DC 5V From PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1700	40.93	9.61	50.54	64.96	-14.42	QP
0.1700	33.79	9.61	43.40	54.96	-11.56	AVG
0.2100	36.46	9.61	46.07	63.20	-17.13	QP
0.2100	24.83	9.61	34.44	53.20	-18.76	AVG
0.2540	32.70	9.61	42.31	61.62	-19.31	QP
0.2540	24.46	9.61	34.07	51.62	-17.55	AVG
0.3780	28.34	9.63	37.97	58.32	-20.35	QP
0.3780	21.03	9.63	30.66	48.32	-17.66	AVG
0.4620	27.54	9.66	37.20	56.66	-19.46	QP
0.4620	21.15	9.66	30.81	46.66	-15.85	AVG
2.2540	29.16	9.53	38.69	56.00	-17.31	QP
2.2540	17.43	9.53	26.96	46.00	-19.04	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

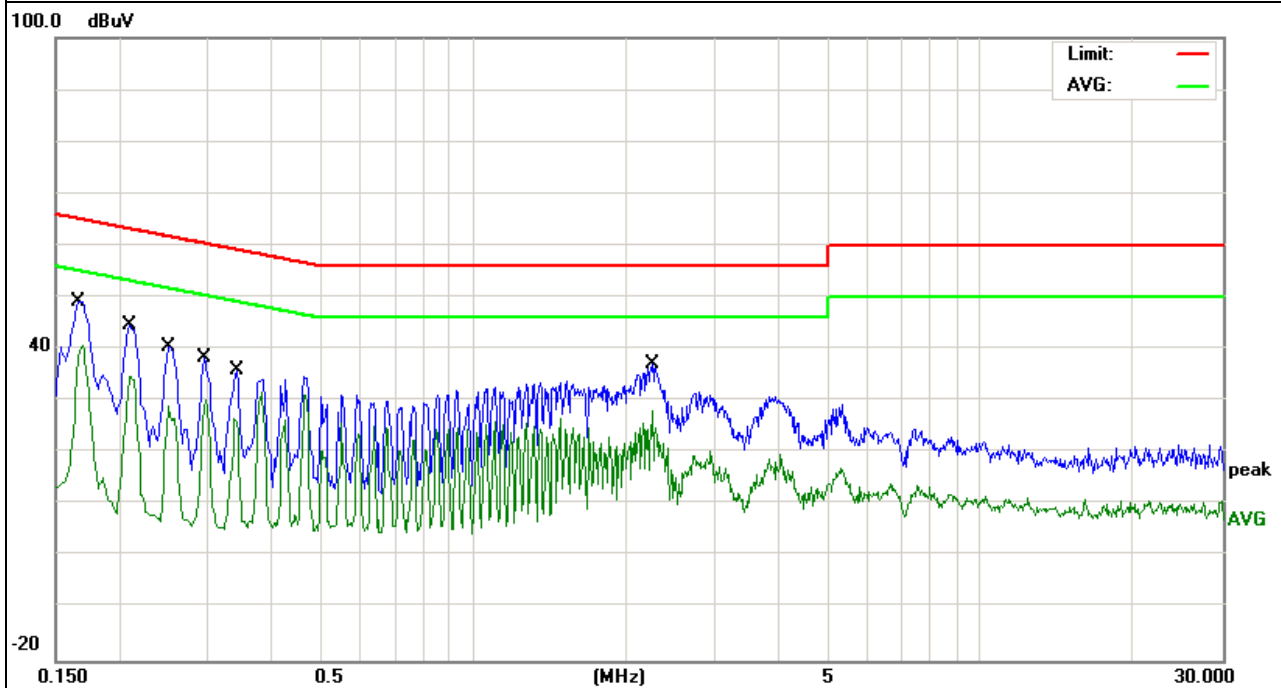


EUT :	Tablet PC &	Model Name. :	Learnit and Blast Tablet
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-07-30
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC 5V From PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1660	39.48	9.60	49.08	65.15	-16.07	QP
0.1660	31.15	9.60	40.75	55.15	-14.40	AVG
0.2100	35.06	9.61	44.67	63.20	-18.53	QP
0.2100	25.23	9.61	34.84	53.20	-18.36	AVG
0.2500	30.77	9.61	40.38	61.75	-21.37	QP
0.2500	19.30	9.61	28.91	51.75	-22.84	AVG
0.2940	28.86	9.61	38.47	60.41	-21.94	QP
0.2940	20.62	9.61	30.23	50.41	-20.18	AVG
0.3420	26.32	9.62	35.94	59.15	-23.21	QP
0.3420	17.04	9.62	26.66	49.15	-22.49	AVG
2.2500	27.66	9.53	37.19	56.00	-18.81	QP
2.2500	18.72	9.53	28.25	46.00	-17.75	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

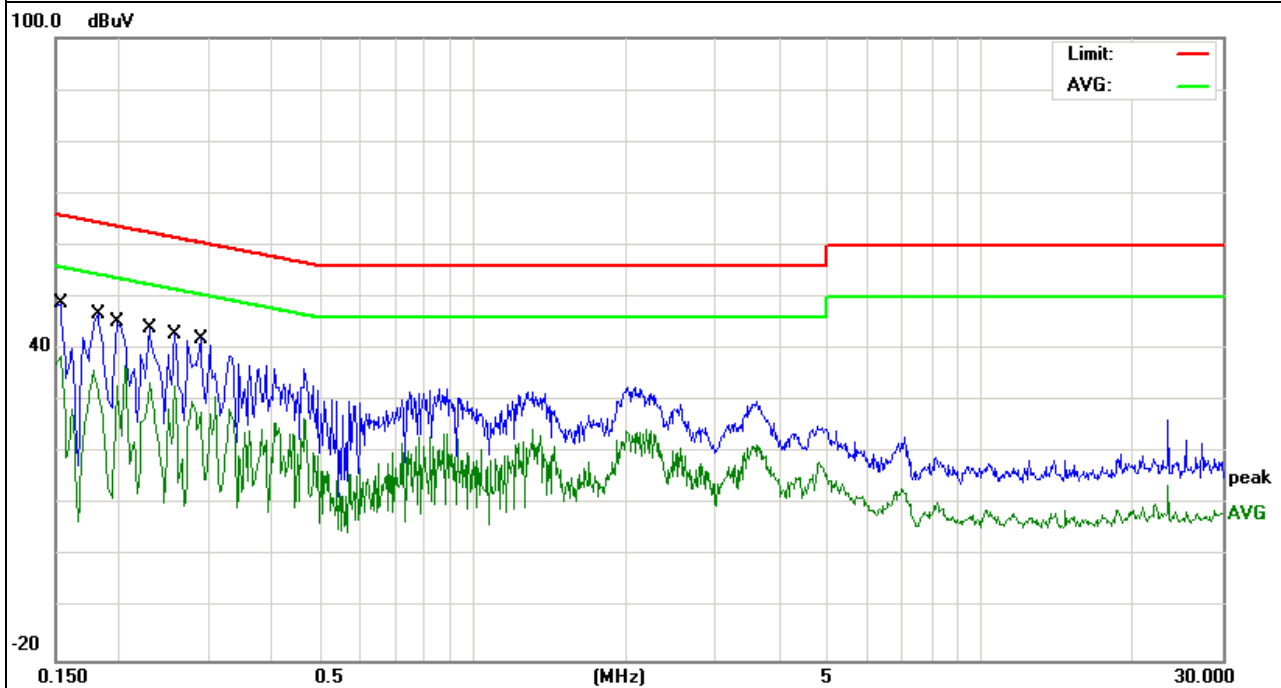


EUT :	Tablet PC &	Model Name. :	Learnit and Blast Tablet
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-07-30
Test Mode :	Mode 1	Phase :	L
Test Voltage :	DC 5V From PC AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1539	39.17	9.63	48.80	65.78	-16.98	QP
0.1539	29.07	9.63	38.70	55.78	-17.08	AVG
0.1819	37.02	9.61	46.63	64.39	-17.76	QP
0.1819	26.27	9.61	35.88	54.39	-18.51	AVG
0.1980	35.69	9.60	45.29	63.69	-18.40	QP
0.1980	23.33	9.60	32.93	53.69	-20.76	AVG
0.2300	34.50	9.65	44.15	62.45	-18.30	QP
0.2300	24.01	9.65	33.66	52.45	-18.79	AVG
0.2580	33.19	9.69	42.88	61.49	-18.61	QP
0.2580	23.15	9.69	32.84	51.49	-18.65	AVG
0.2900	32.37	9.73	42.10	60.52	-18.42	QP
0.2900	18.25	9.73	27.98	50.52	-22.54	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

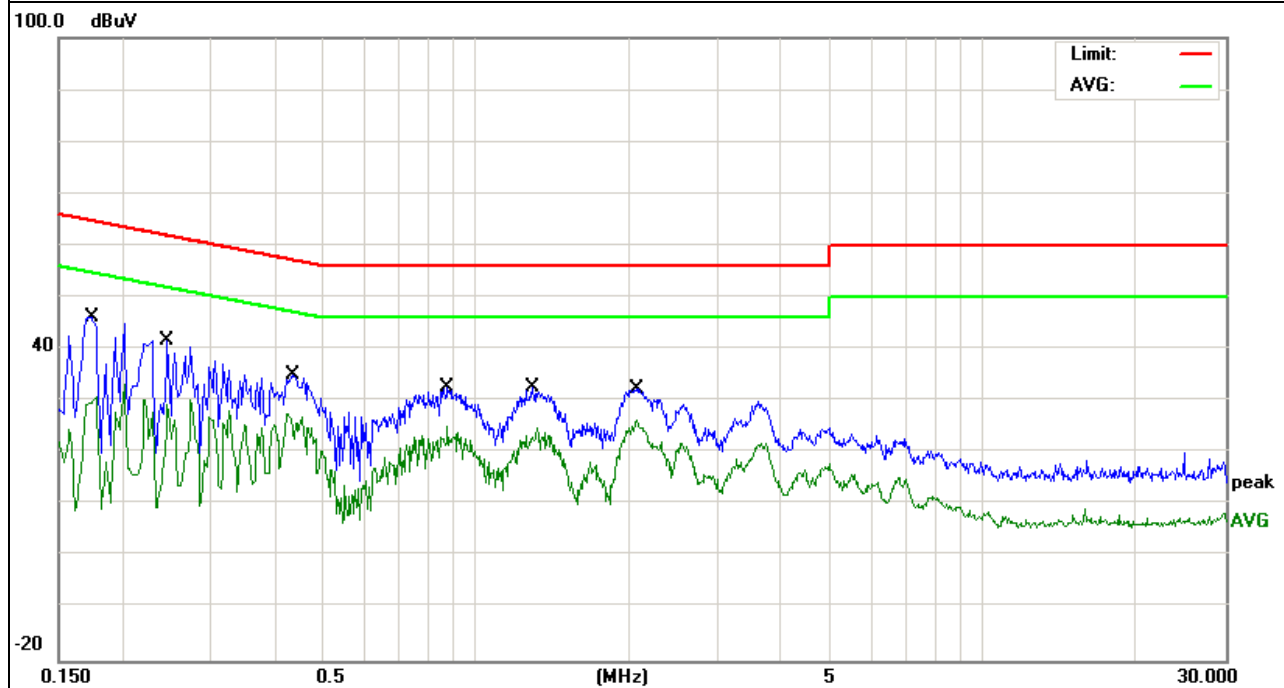


EUT :	Tablet PC &	Model Name. :	Learnit and Blast Tablet
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-07-30
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC 5V From PC AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1740	36.59	9.62	46.21	64.76	-18.55	QP
0.1740	21.26	9.62	30.88	54.76	-23.88	AVG
0.2460	31.85	9.67	41.52	61.89	-20.37	QP
0.2460	19.65	9.67	29.32	51.89	-22.57	AVG
0.4340	25.54	9.50	35.04	57.18	-22.14	QP
0.4340	17.96	9.50	27.46	47.18	-19.72	AVG
0.8780	22.84	9.75	32.59	56.00	-23.41	QP
0.8780	15.39	9.75	25.14	46.00	-20.86	AVG
1.2940	22.82	9.71	32.53	56.00	-23.47	QP
1.2940	15.07	9.71	24.78	46.00	-21.22	AVG
2.0740	22.72	9.65	32.37	56.00	-23.63	QP
2.0740	16.79	9.65	26.44	46.00	-19.56	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

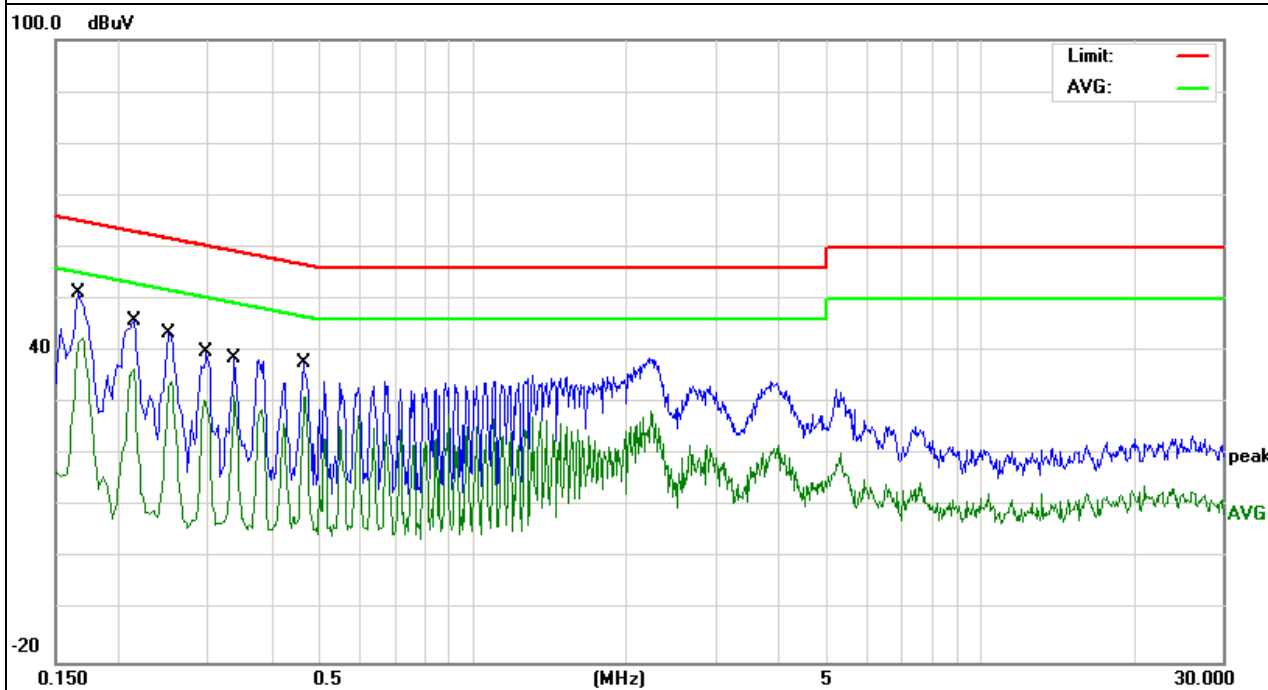


EUT :	Tablet PC &	Model Name. :	Learnit and Blast Tablet
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-07-30
Test Mode :	Mode 1	Phase :	L
Test Voltage :	DC 5V From Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1660	41.49	9.62	51.11	65.15	-14.04	QP
0.1660	33.02	9.62	42.64	55.15	-12.51	AVG
0.2140	36.29	9.63	45.92	63.04	-17.12	QP
0.2140	26.86	9.63	36.49	53.04	-16.55	AVG
0.2500	33.88	9.67	43.55	61.75	-18.20	QP
0.2500	24.56	9.67	34.23	51.75	-17.52	AVG
0.2980	30.15	9.74	39.89	60.30	-20.41	QP
0.2980	20.92	9.74	30.66	50.30	-19.64	AVG
0.3379	29.06	9.59	38.65	59.25	-20.60	QP
0.3379	21.89	9.59	31.48	49.25	-17.77	AVG
0.4620	28.14	9.61	37.75	56.66	-18.91	QP
0.4620	21.68	9.61	31.29	46.66	-15.37	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

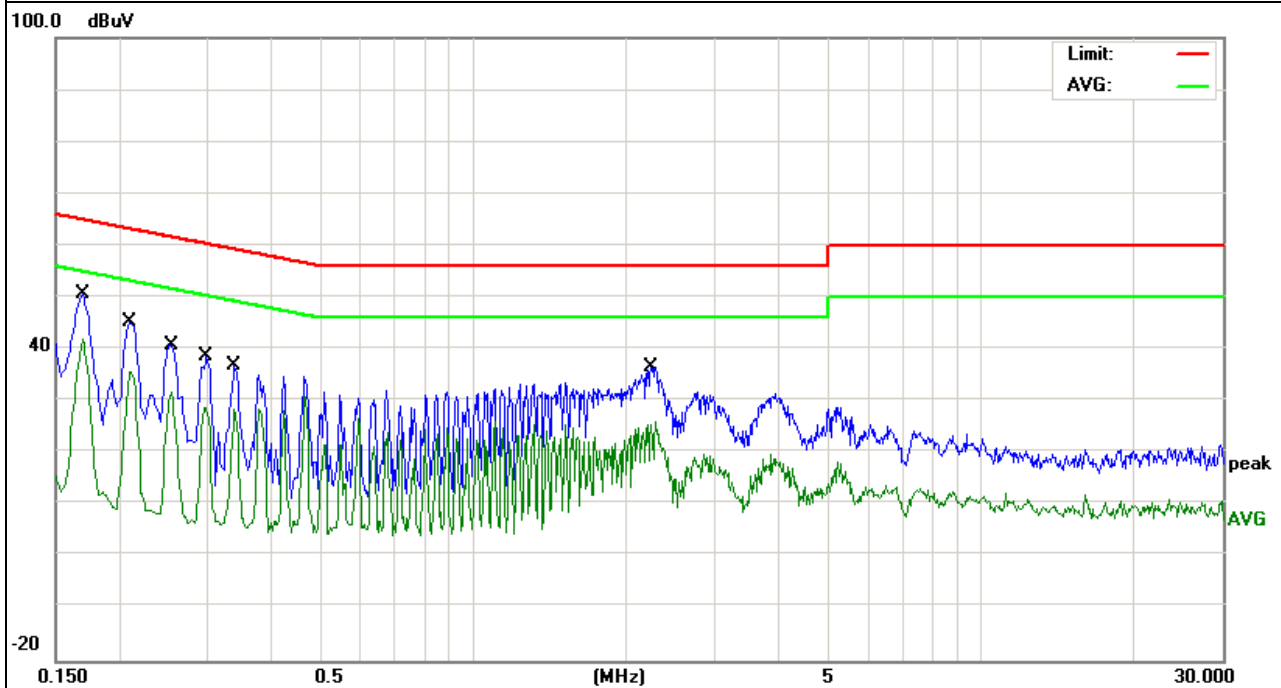


EUT :	Tablet PC &	Model Name. :	Learnit and Blast Tablet
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-07-30
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC 5V From Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1700	40.96	9.61	50.57	64.96	-14.39	QP
0.1700	32.39	9.61	42.00	54.96	-12.96	AVG
0.2100	35.66	9.61	45.27	63.20	-17.93	QP
0.2100	26.09	9.61	35.70	53.20	-17.50	AVG
0.2540	31.19	9.61	40.80	61.62	-20.82	QP
0.2540	22.26	9.61	31.87	51.62	-19.75	AVG
0.2980	29.16	9.61	38.77	60.30	-21.53	QP
0.2980	19.23	9.61	28.84	50.30	-21.46	AVG
0.3379	27.24	9.62	36.86	59.25	-22.39	QP
0.3379	18.79	9.62	28.41	49.25	-20.84	AVG
2.2460	27.13	9.53	36.66	56.00	-19.34	QP
2.2460	16.47	9.53	26.00	46.00	-20.00	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

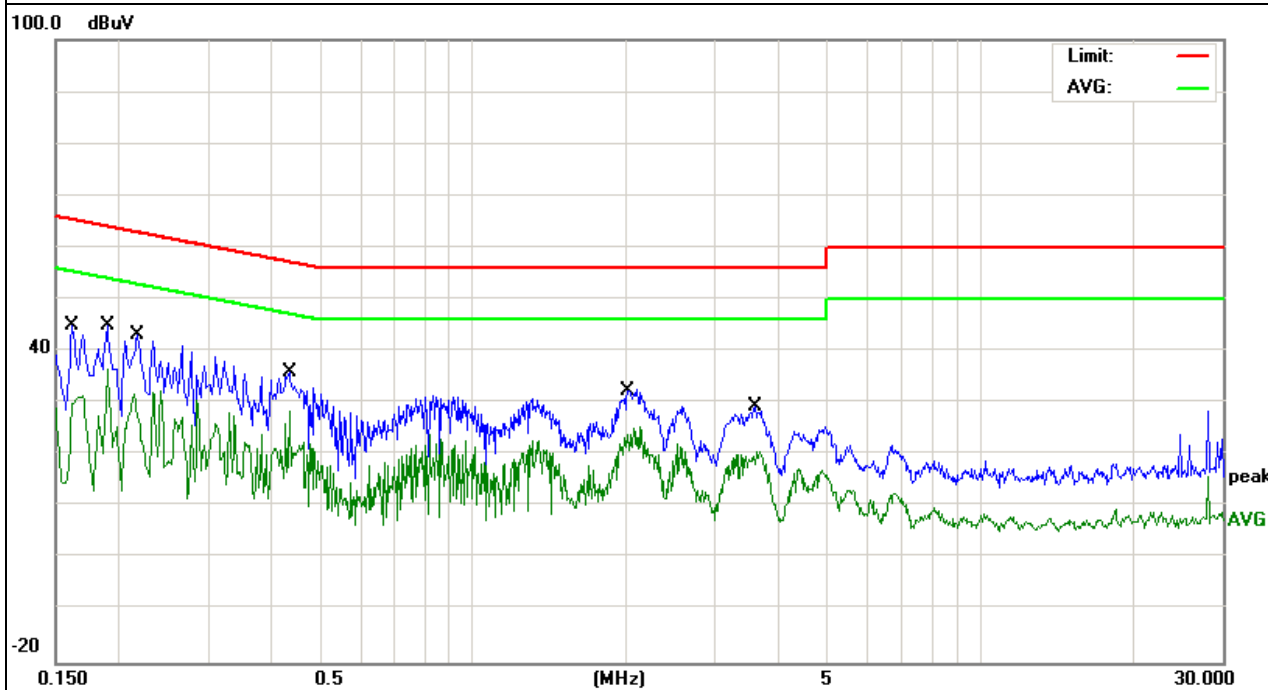


EUT :	Tablet PC &	Model Name. :	Learnit and Blast Tablet
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-07-30
Test Mode :	Mode 1	Phase :	L
Test Voltage :	DC 5V From Adapter AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1620	35.29	9.62	44.91	65.36	-20.45	QP
0.1620	21.68	9.62	31.30	55.36	-24.06	AVG
0.1900	35.45	9.61	45.06	64.03	-18.97	QP
0.1900	26.87	9.61	36.48	54.03	-17.55	AVG
0.2180	33.45	9.63	43.08	62.89	-19.81	QP
0.2180	22.05	9.63	31.68	52.89	-21.21	AVG
0.4340	26.48	9.50	35.98	57.18	-21.20	QP
0.4340	18.87	9.50	28.37	47.18	-18.81	AVG
2.0220	22.72	9.65	32.37	56.00	-23.63	QP
2.0220	15.55	9.65	25.20	46.00	-20.80	AVG
3.5900	19.53	9.69	29.22	56.00	-26.78	QP
3.5900	11.10	9.69	20.79	46.00	-25.21	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

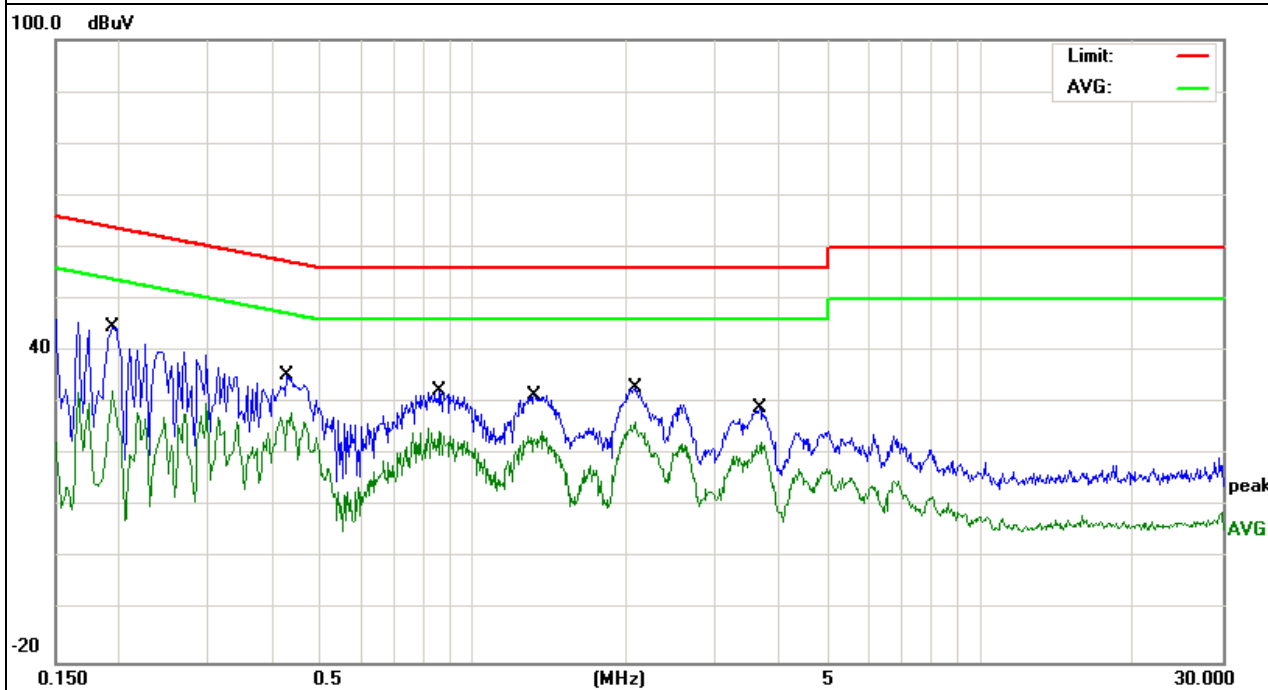


EUT :	Tablet PC &	Model Name. :	Learnit and Blast Tablet
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2015-07-30
Test Mode :	Mode 1	Phase :	N
Test Voltage :	DC 5V From Adapter AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1945	34.86	9.60	44.46	63.84	-19.38	QP
0.1945	22.64	9.60	32.24	53.84	-21.60	AVG
0.4300	26.02	9.48	35.50	57.25	-21.75	QP
0.4300	18.69	9.48	28.17	47.25	-19.08	AVG
0.8580	22.72	9.75	32.47	56.00	-23.53	QP
0.8580	14.89	9.75	24.64	46.00	-21.36	AVG
1.3180	21.79	9.71	31.50	56.00	-24.50	QP
1.3180	13.81	9.71	23.52	46.00	-22.48	AVG
2.0940	23.18	9.65	32.83	56.00	-23.17	QP
2.0940	16.79	9.65	26.44	46.00	-19.56	AVG
3.6660	19.25	9.69	28.94	56.00	-27.06	QP
3.6660	12.61	9.69	22.30	46.00	-23.70	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

Notes:

- (1) The limit for radiated test was performed according to as following:
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

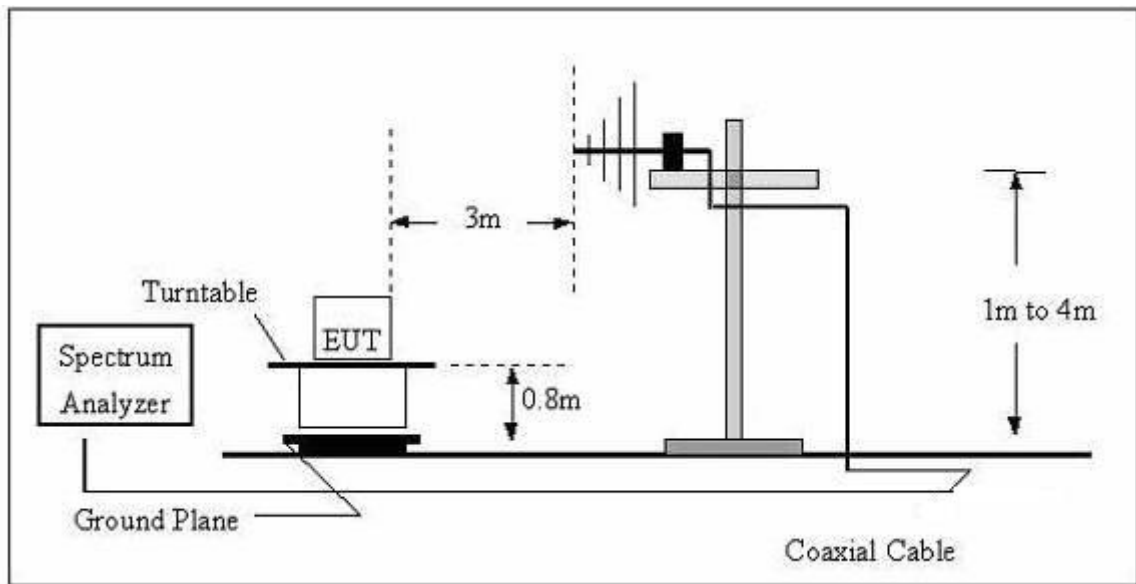
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst

case is recorded in the report
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

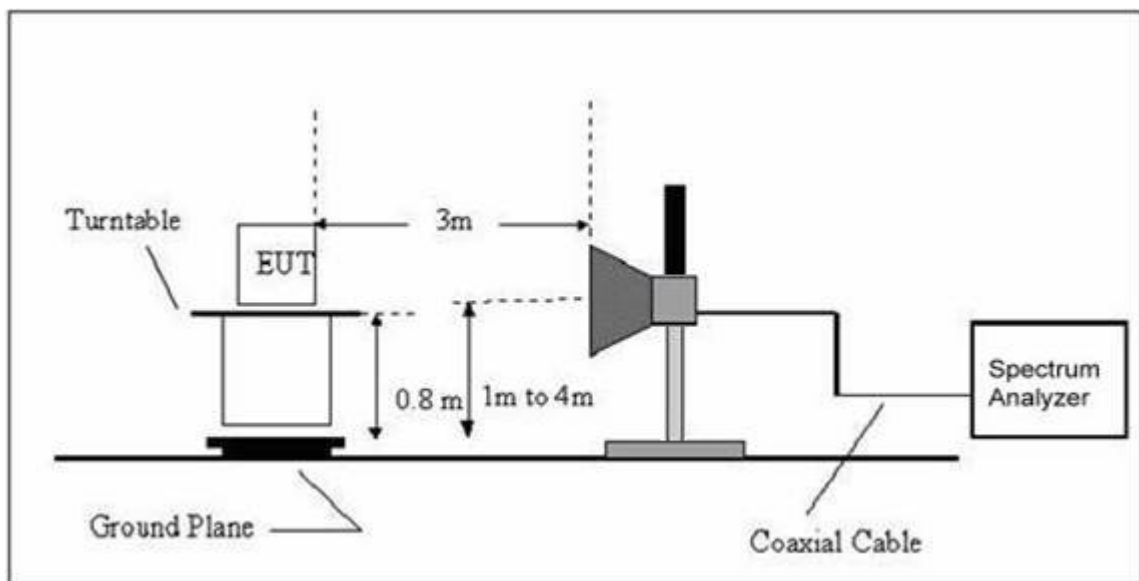
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Peak	1 MHz	10 Hz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



3.2.4 TEST RESULTS

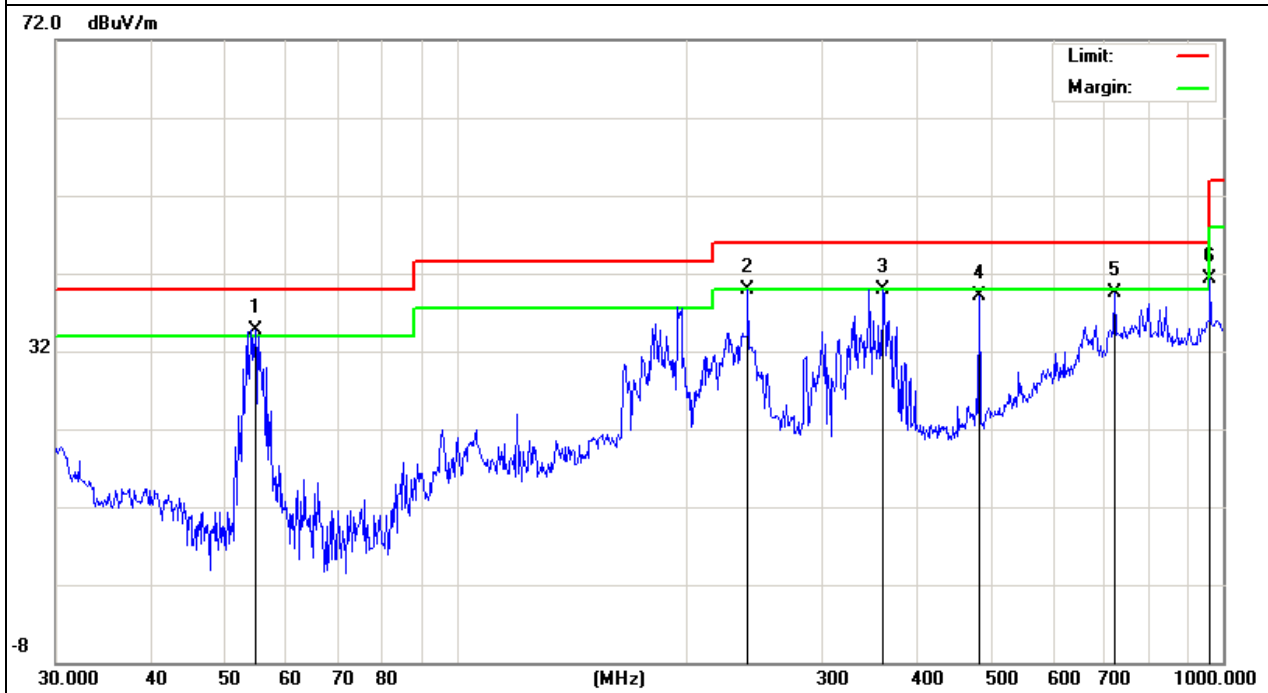
TEST RESULTS (30~1000 MHz)

EUT :	Tablet PC &	Model Name :	Learnit and Blast Tablet
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2015-07-30
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V From PC AC 120V/60Hz		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
54.6428	25.42	9.37	34.79	40.00	-5.21	QP
239.9874	26.49	13.49	39.98	46.00	-6.02	QP
360.4476	23.14	16.67	39.81	46.00	-6.19	QP
480.5276	19.18	19.91	39.09	46.00	-6.91	QP
721.7259	14.15	25.36	39.51	46.00	-6.49	QP
962.1621	13.92	27.38	41.30	54.00	-12.70	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

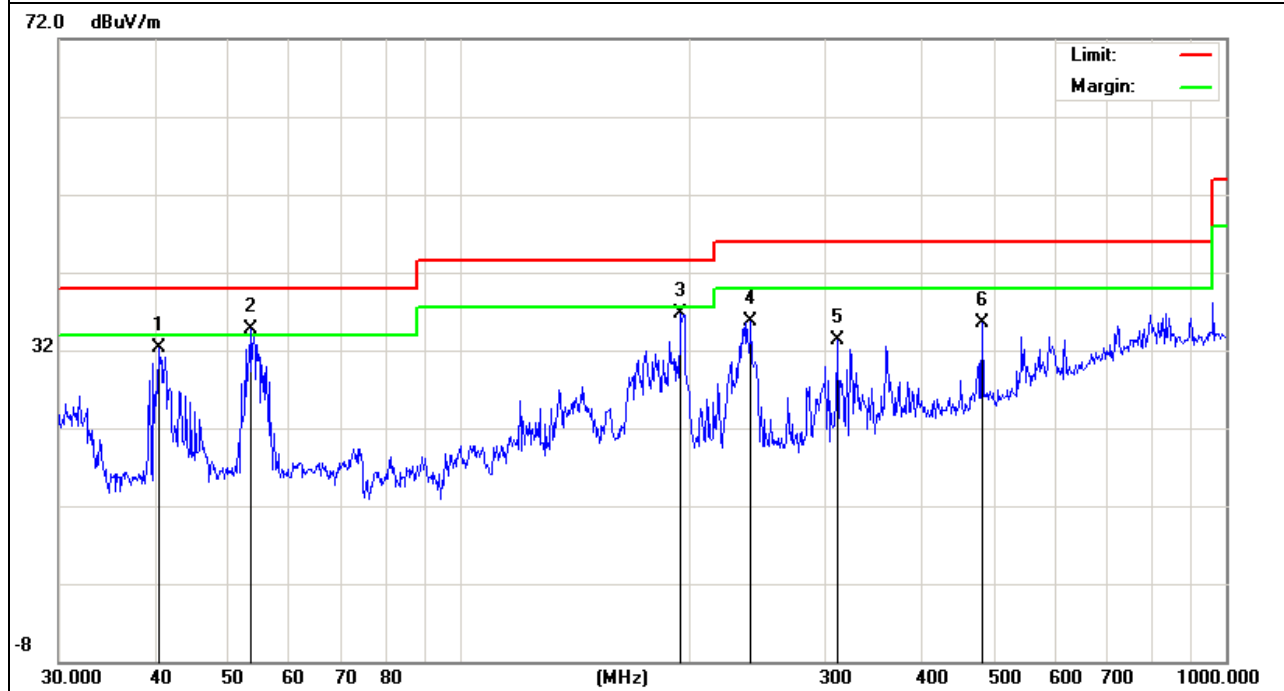


EUT :	Tablet PC &	Model Name :	Learnit and Blast Tablet
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2015-07-30
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V From PC AC 120V/60Hz		

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Remark
40.5591	19.03	13.36	32.39	40.00	-7.61	QP
53.3179	24.93	9.74	34.67	40.00	-5.33	QP
194.4533	25.91	10.74	36.65	43.50	-6.85	QP
239.9874	22.17	13.49	35.66	46.00	-10.34	QP
311.0867	18.60	14.62	33.22	46.00	-12.78	QP
480.5276	15.62	19.91	35.53	46.00	-10.47	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



3.2.5 TEST RESULTS(1000~12400MHz)

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	1894.621	85.96	-17.15	68.81	74.00	-5.19	peak
V	1894.621	60.82	-17.15	43.67	54.00	-10.33	AVG
V	2657.389	82.37	-15.76	66.61	74.00	-7.39	peak
V	2657.389	59.34	-15.76	43.58	54.00	-10.42	AVG
V	4013.629	76.71	-11.22	65.49	74.00	-8.51	peak
V	4013.629	53.98	-11.22	42.76	54.00	-11.24	AVG
H	1896.351	81.81	-17.14	64.67	74.00	-9.33	peak
H	1896.351	58.40	-17.14	41.26	54.00	-12.74	AVG
H	3116.378	82.03	-15.54	66.49	74.00	-7.51	peak
H	3116.378	58.51	-15.54	42.97	54.00	-11.03	AVG
H	4361.254	75.44	-10.13	65.31	74.00	-8.69	peak
H	4361.254	51.49	-10.13	41.36	54.00	-12.64	AVG

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

4. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Measurement Photos

