



FCC Test Report

FCC ID: 2AJRK-FSP6

Product: 3D TOUCH PROJECTOR
Trade Name: Foison
Model Number: FSP6
Serial Model: FSP6-S, FSP6-PLUS
Report No.: NTEK- 2016NT08278601F3

Prepared for

shenzhen FoisonTech Corporation Ltd
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : shenzhen Foisontech Corporation Ltd
Address : North Floor 6, Xinwuyuan Industry Zone, No. 1, Difu Road, Gushu, Xixiang, Baoan, Shenzhen City, Guangdong, China

Manufacturer's Name : shenzhen Foisontech Corporation Ltd
Address : North Floor 6, Xinwuyuan Industry Zone, No. 1, Difu Road, Gushu, Xixiang, Baoan, Shenzhen City, Guangdong, China

Product description

Product name : 3D TOUCH PROJECTOR
Model and/or type reference : FSP6, FSP6-S, FSP6-PLUS
 FCC Part15B:01 Oct.2016

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.

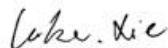
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Date of Test

Date (s) of performance of tests : 27 Aug. 2016 ~ 15 Oct. 2016

Date of Issue : 15 Oct. 2016

Test Result : **Pass**

Testing Engineer : 
 (Lake Xie)

Technical Manager : 
 (Jason Chen)

Authorized Signatory : 
 (Sam Chen)

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B:2016 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	3D TOUCH PROJECTOR	
Trade Name	Foison	
Model Name	FSP6	
Serial Model	FSP6-S,FSP6-PLUS	
Model Difference	All the model are the same circuit and RF module, except the software is different. FSP6 is standard 3D versions; FSP6-S is standard 3Dcost down versions; FSP6-PLUS is standard 3D software upgrading versions.	
Product Description	The EUT is a 3D TOUCH PROJECTOR .	
	Connecting I/O port:	USB, DC in
	Operation Frequency:	BT:2402~2480 MHz WIFI:802.11b/g/n(20MHz): 2412~2462MHz 5180-5240MHz for 802.11a/n(HT20)/AC20; 5190-5230MHz for 802.11n(HT40)/AC40 5745-5825 MHz for 802.11a/n(HT20)/AC20; 5755-5795 MHz for 802.11a/n(HT40)/AC40
	Modulation Type:	BT(1Mbps)/BT4.0: GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8-DPSK IEEE 802.11b : DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20) : OFDM (64QAM, 16QAM, QPSK, BPSK) OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac
Power Source	DC 12V,5200mAh or DC14.4 from adapter	
Adapter	Model: JHD-AD065C-144400 Input: 100-240V~, 50/60Hz, 1.5A Output: 14.4V---4000mA	
Battery	DC 12V,5200mAh	
HW Version	P5 V3.1 0729	
SW Version	rk3288-userdebug 5.1.1 LMY49F eng.ytpcba.20160708.113801 test-keys	

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	BT playing
Mode 2	WIFI playing
Mode 3	HDMI
Mode 4	AV
Mode 5	USB
Mode 6	TF

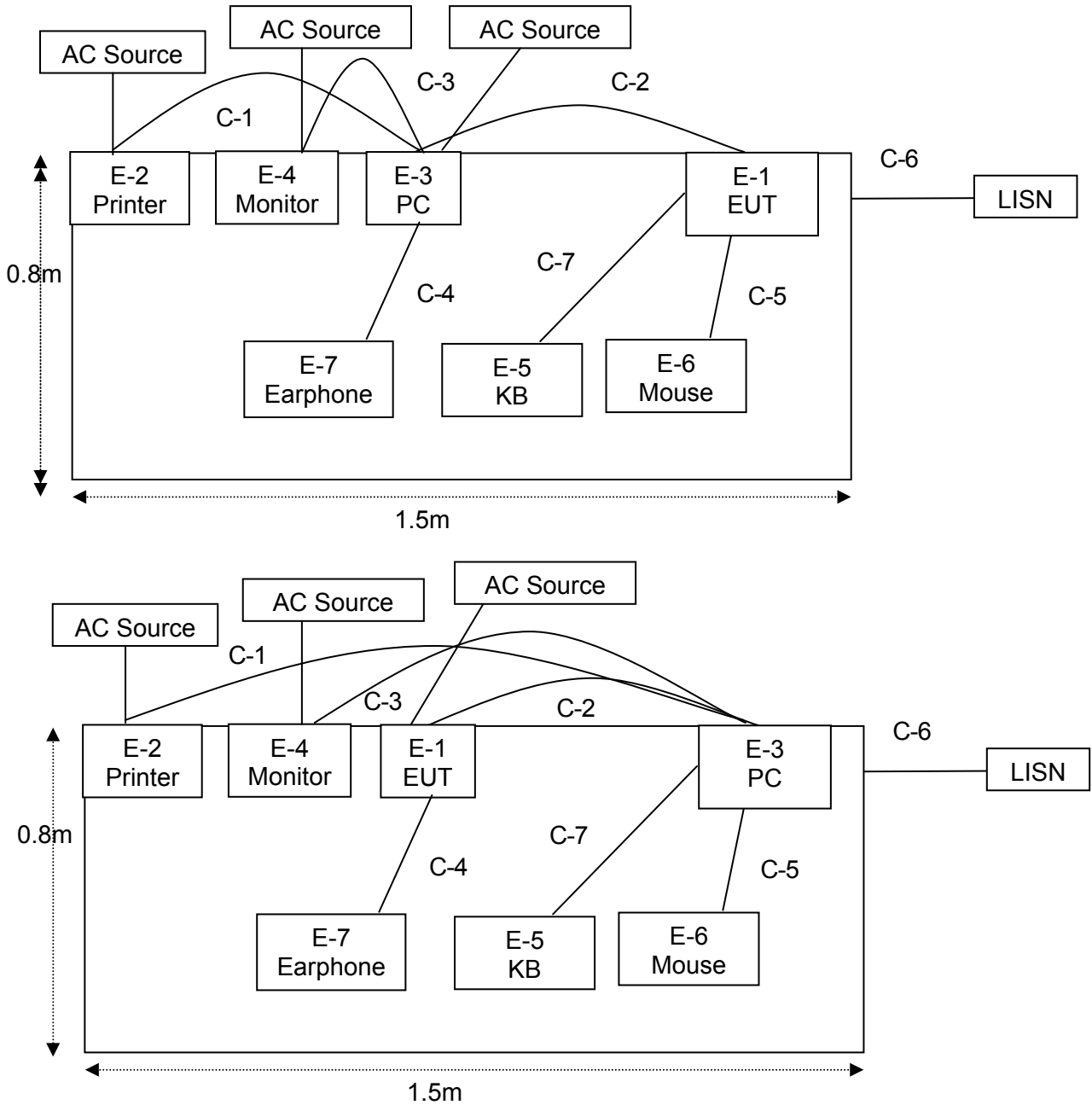
For Conducted Test	
Final Test Mode	Description
Mode 1	BT playing
Mode 2	WIFI playing
Mode 3	HDMI
Mode 4	AV
Mode 5	USB
Mode 6	TF

For Radiated Test	
Final Test Mode	Description
Mode 1	BT playing
Mode 2	WIFI playing
Mode 3	HDMI
Mode 4	AV
Mode 5	USB
Mode 6	TF

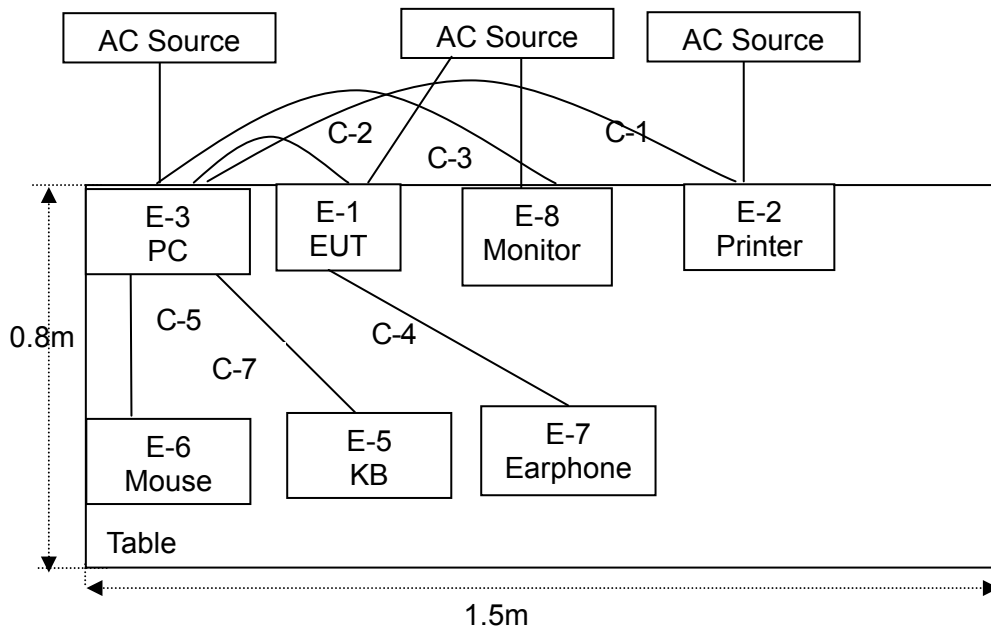
Note: Final Test Mode: Through Pre-scan, find the mode 3 is the worst case.
Only the worst case mode is recorded in the report.

2.2 DESCRIPTION OF TEST SETUP

CE



RE



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	3D TOUCH PROJECTOR	Foison	FSP6	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	
E-7	Earphone	N/A	L662	N/A	
E-8	Monitor	Lenovo	L197wA	OMO4345C1062034	

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	unshielded	NO	1.2m	
C-2	HDMI	unshielded	NO	1.0m	
C-3	USB Cable	unshielded	NO	1.2m	
C-4	Earphone Cable	unshielded	NO	1.0m	
C-5	USB Cable	unshielded	NO	1.0m	
C-6	Power Line	unshielded	NO	1.2m	
C-7	USB Cable	unshielded	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

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2016.07.06	2017.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2016.07.06	2017.07.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2016.07.06	2017.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2016.07.06	2017.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2016.07.06	2017.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2016.07.06	2017.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2016.06.06	2017.06.05	1 year
2	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.08	2017.06.07	1 year
7	Test Cable	N/A	C01	N/A	2016.06.08	2017.06.07	1 year
8	Test Cable	N/A	C02	N/A	2016.06.08	2017.06.07	1 year
9	Test Cable	N/A	C03	N/A	2016.06.08	2017.06.07	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.

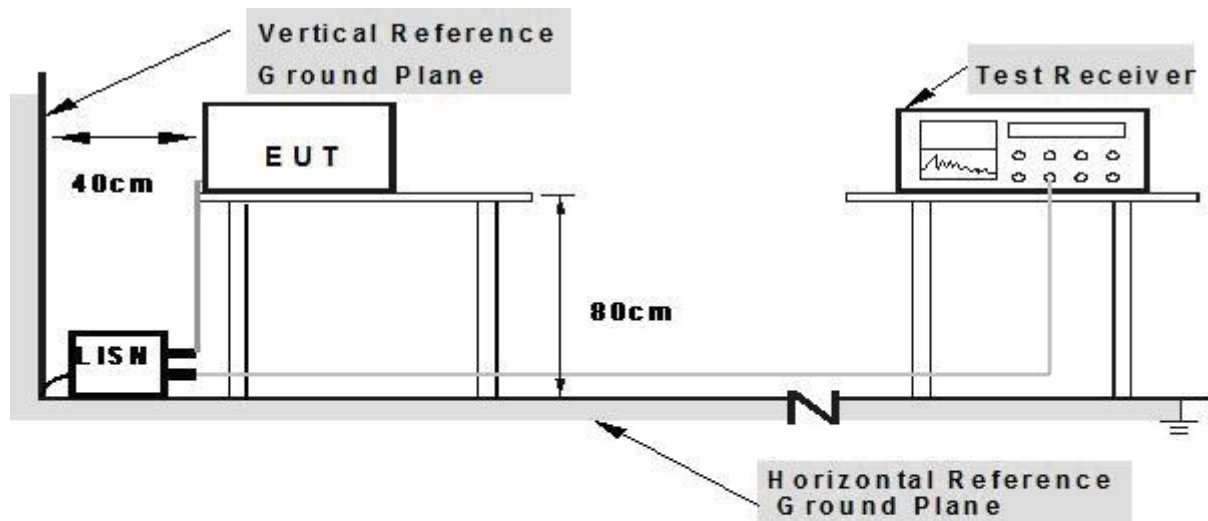
The following table is the setting of the receiver

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 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.

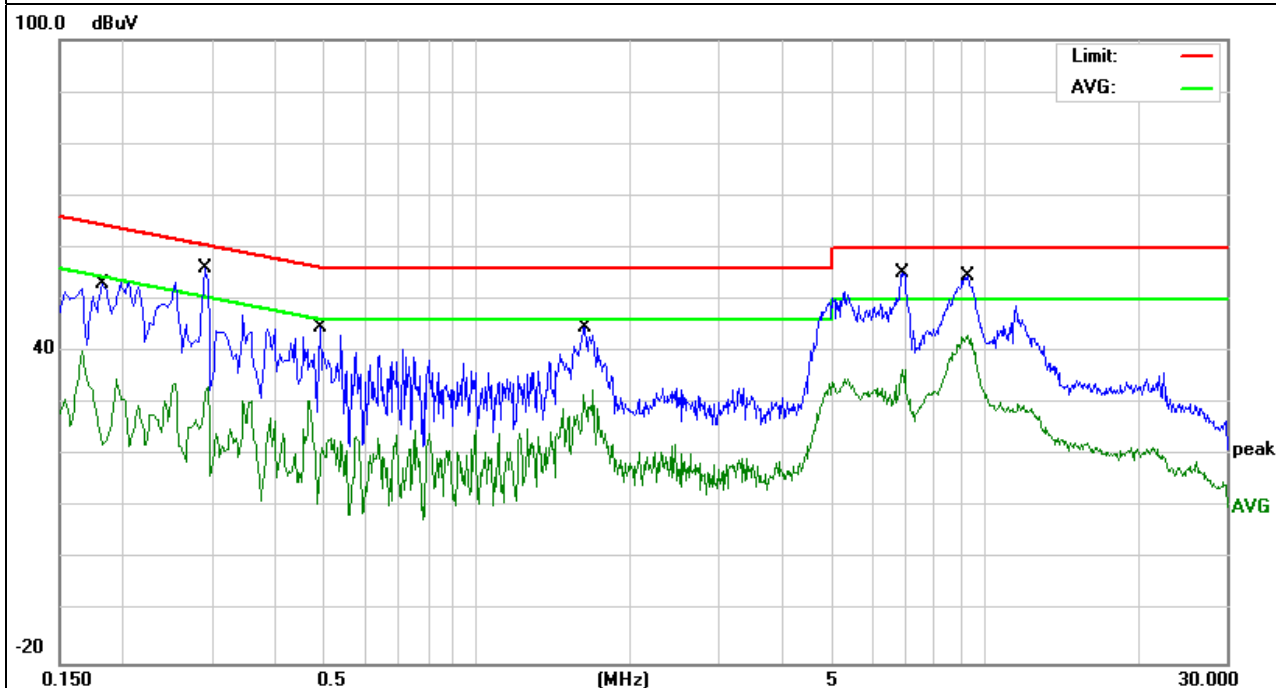
3.1.5 TEST RESULTS

EUT:	3D TOUCH PROJECTOR	Model Name. :	FSP6
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2016-8-27
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 14.4V From Adapter AC 120V/60Hz		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1819	43.02	10.13	53.15	64.39	-11.24	QP
0.1819	24.61	10.13	34.74	54.39	-19.65	AVG
0.2899	46.02	10.14	56.16	60.52	-4.36	QP
0.2899	22.97	10.14	33.11	50.52	-17.41	AVG
0.4899	34.86	9.83	44.69	56.17	-11.48	QP
0.4899	20.72	9.83	30.55	46.17	-15.62	AVG
1.6298	35	9.8	44.8	56	-11.2	QP
1.6298	22.98	9.8	32.78	46	-13.22	AVG
6.8859	45.43	9.85	55.28	60	-4.72	QP
6.8859	26.82	9.85	36.67	50	-13.33	AVG
9.2698	44.56	9.88	54.44	60	-5.56	QP
9.2698	33.25	9.88	43.13	50	-6.87	AVG

Remark:

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

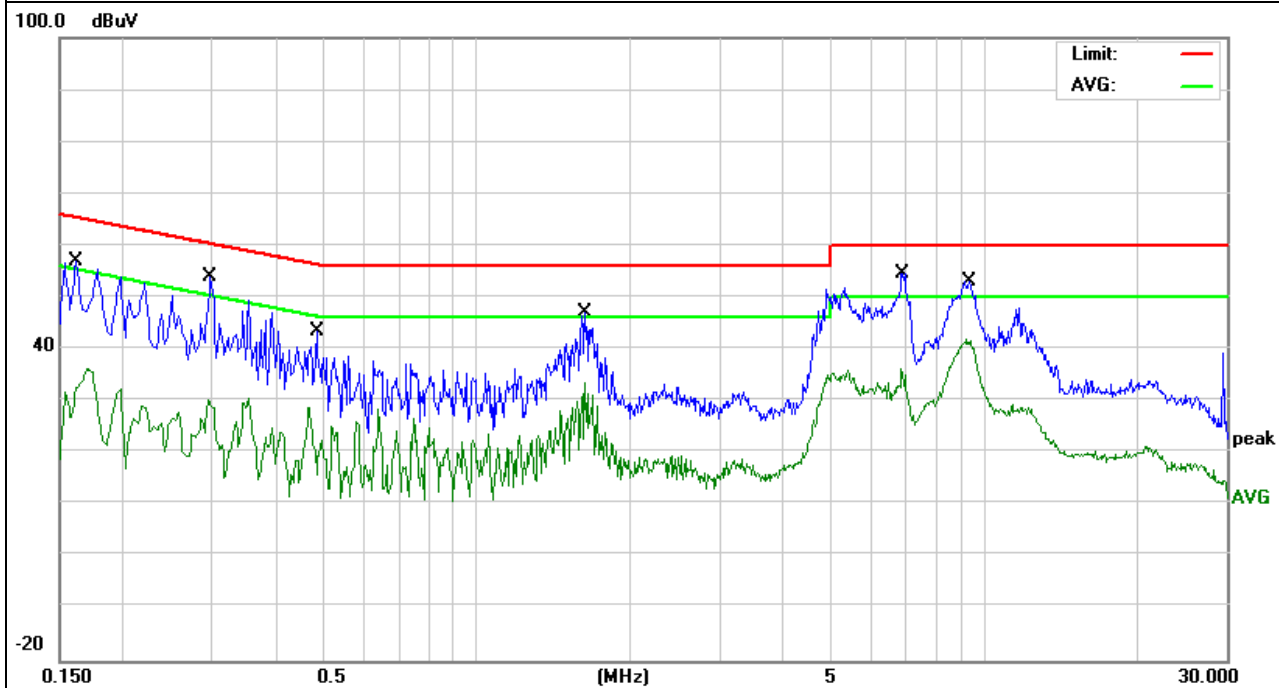


EUT:	3D TOUCH PROJECTOR	Model Name. :	FSP6
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2016-8-27
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 14.4V From Adapter AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.162	46.85	10.07	56.92	65.36	-8.44	QP
0.162	26.21	10.07	36.28	55.36	-19.08	AVG
0.2979	43.96	10.13	54.09	60.3	-6.21	QP
0.2979	20.23	10.13	30.36	50.3	-19.94	AVG
0.4819	33.52	9.87	43.39	56.31	-12.92	QP
0.4819	18.91	9.87	28.78	46.31	-17.53	AVG
1.6339	37.25	9.82	47.07	56	-8.93	QP
1.6339	23.58	9.82	33.4	46	-12.6	AVG
6.8779	44.86	9.82	54.68	60	-5.32	QP
6.8779	26.46	9.82	36.28	50	-13.72	AVG
9.3218	43.12	9.86	52.98	60	-7.02	QP
9.3218	32.05	9.86	41.91	50	-8.09	AVG

Remark:

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

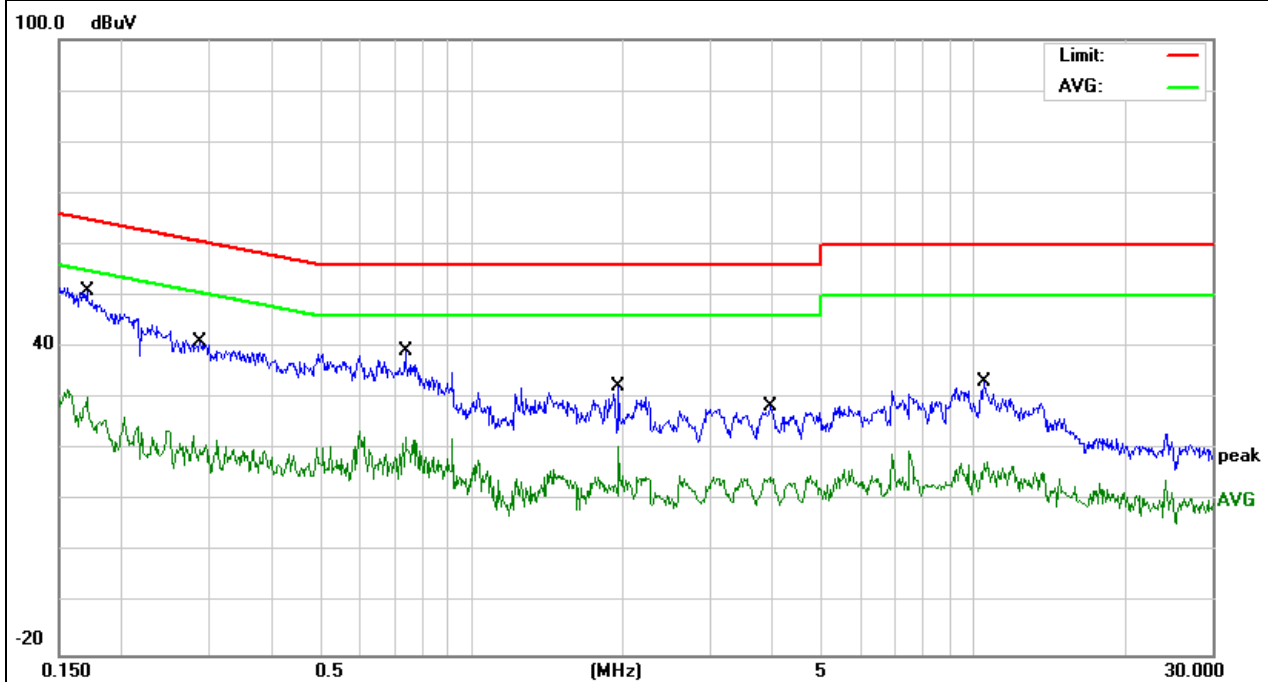


EUT:	3D TOUCH PROJECTOR	Model Name. :	FSP6
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2016-8-27
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 120V/60Hz for PC		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1703	41.64	9.46	51.10	64.94	-13.84	QP
0.1703	18.85	9.46	28.31	54.94	-26.63	AVG
0.2862	31.76	9.44	41.20	60.63	-19.43	QP
0.2862	10.72	9.44	20.16	50.63	-30.47	AVG
0.7378	29.97	9.43	39.40	56.00	-16.60	QP
0.7378	11.18	9.43	20.61	46.00	-25.39	AVG
1.9616	22.84	9.46	32.30	56.00	-23.70	QP
1.9616	11.30	9.46	20.76	46.00	-25.24	AVG
3.946	18.99	9.47	28.46	56.00	-27.54	QP
3.946	4.38	9.47	13.85	46.00	-32.15	AVG
10.5539	23.71	9.69	33.40	60.00	-26.60	QP
10.5539	7.59	9.69	17.28	50.00	-32.72	AVG

Remark:

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

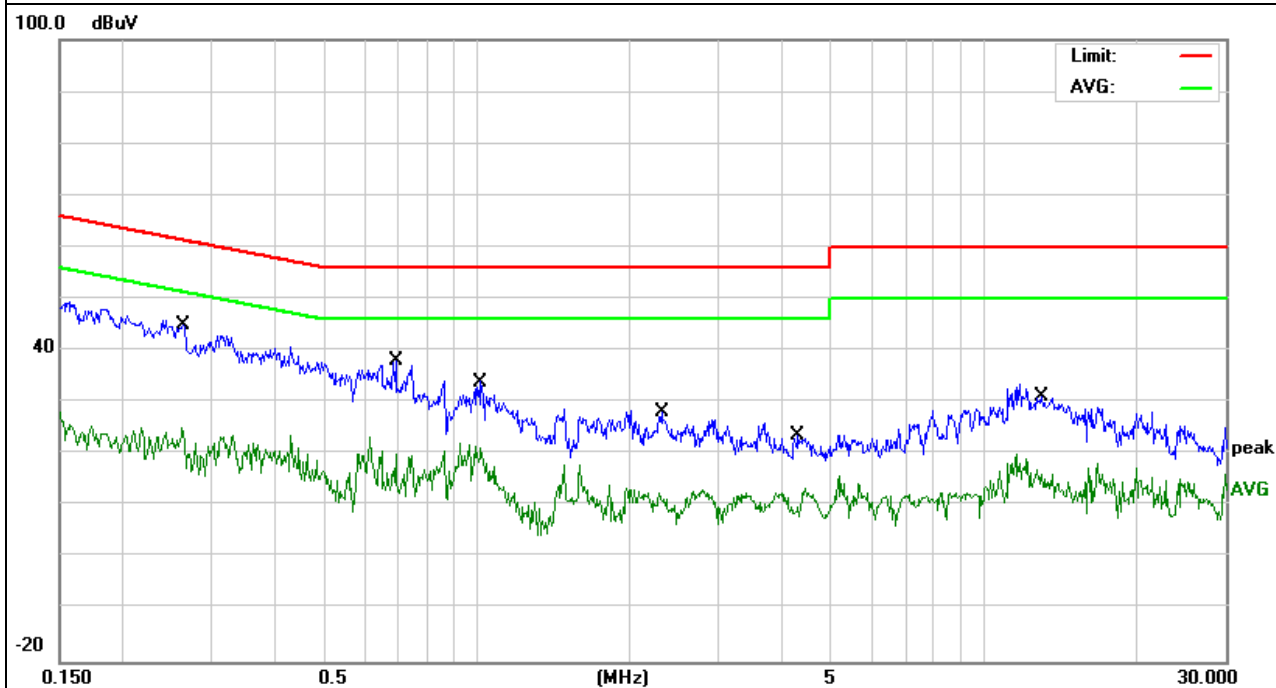


EUT:	3D TOUCH PROJECTOR	Model Name. :	FSP6
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2016-8-27
Test Mode:	Mode 1	Phase :	N
Test Voltage:	AC 120V/60Hz for PC		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.263	35.55	9.45	45.00	61.33	-16.33	QP
0.263	14.71	9.45	24.16	51.33	-27.17	AVG
0.6895	28.57	9.43	38.00	56.00	-18.00	QP
0.6895	5.34	9.43	14.77	46.00	-31.23	AVG
1.018	24.56	9.44	34.00	56.00	-22.00	QP
1.018	11.75	9.44	21.19	46.00	-24.81	AVG
2.314	18.74	9.46	28.20	56.00	-27.80	QP
2.314	1.63	9.46	11.09	46.00	-34.91	AVG
4.3139	14.18	9.48	23.66	56.00	-32.34	QP
4.3139	0.27	9.48	9.75	46.00	-36.25	AVG
12.9938	21.56	9.74	31.30	60.00	-28.70	QP
12.9938	6.32	9.74	16.06	50.00	-33.94	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.

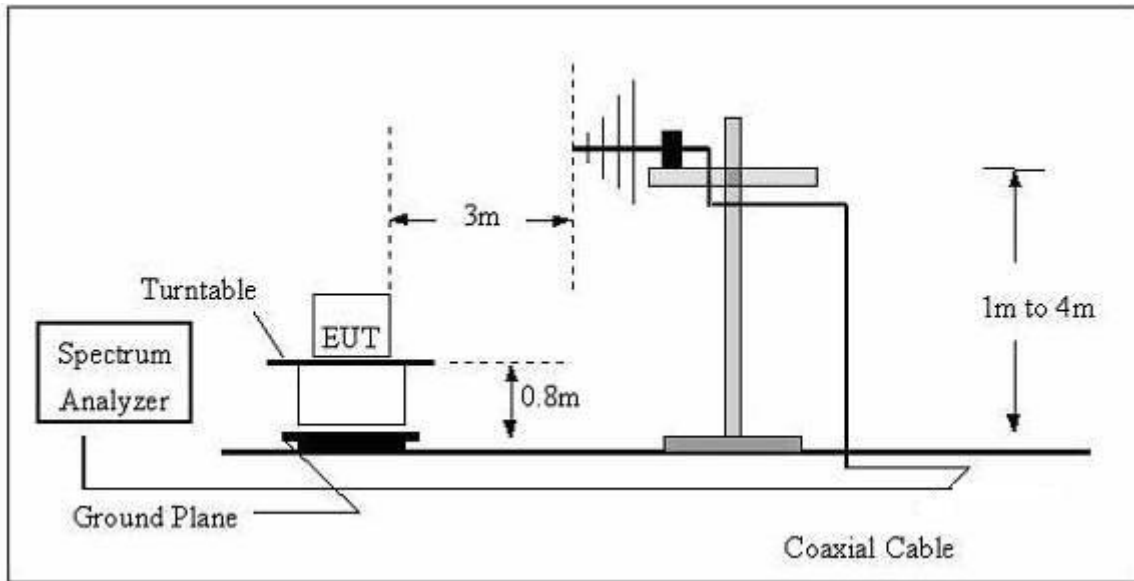
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

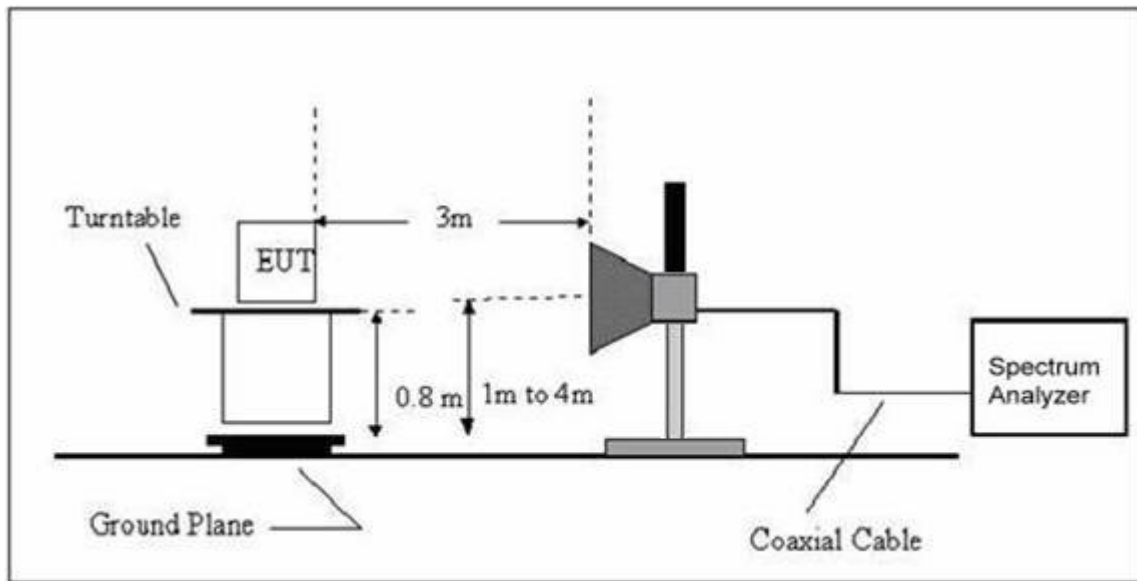
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Avg	1 MHz	10 Hz

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)

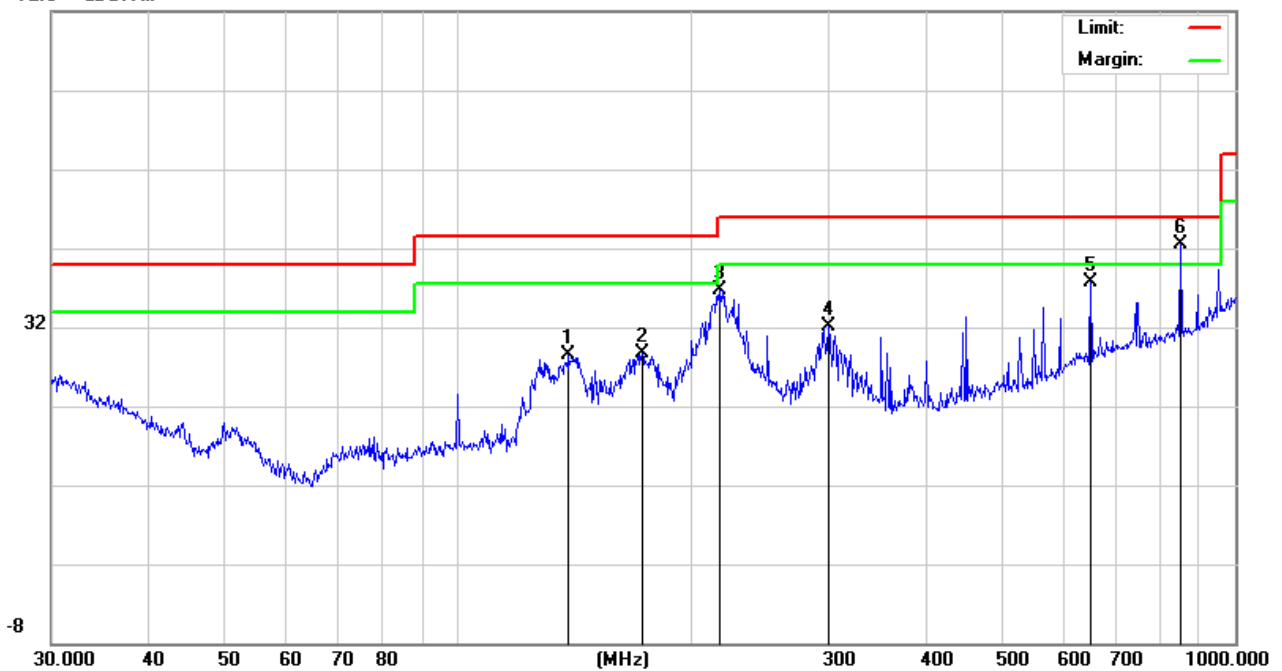
EUT:	3D TOUCH PROJECTOR	Model Name:	FSP6
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-8-27
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 14.4V From Adapter AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	138.8735	16.43	12.09	28.52	43.5	-14.98	QP
H	172.5988	15.24	13.53	28.77	43.5	-14.73	QP
H	217.5443	24.45	12.2	36.65	46	-9.35	QP
H	300.3672	18.32	13.84	32.16	46	-13.84	QP
H	651.9416	15.99	21.63	37.62	46	-8.38	QP
H	851.0353	17.84	24.75	42.59	46	-3.41	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

72.0 dBuV/m

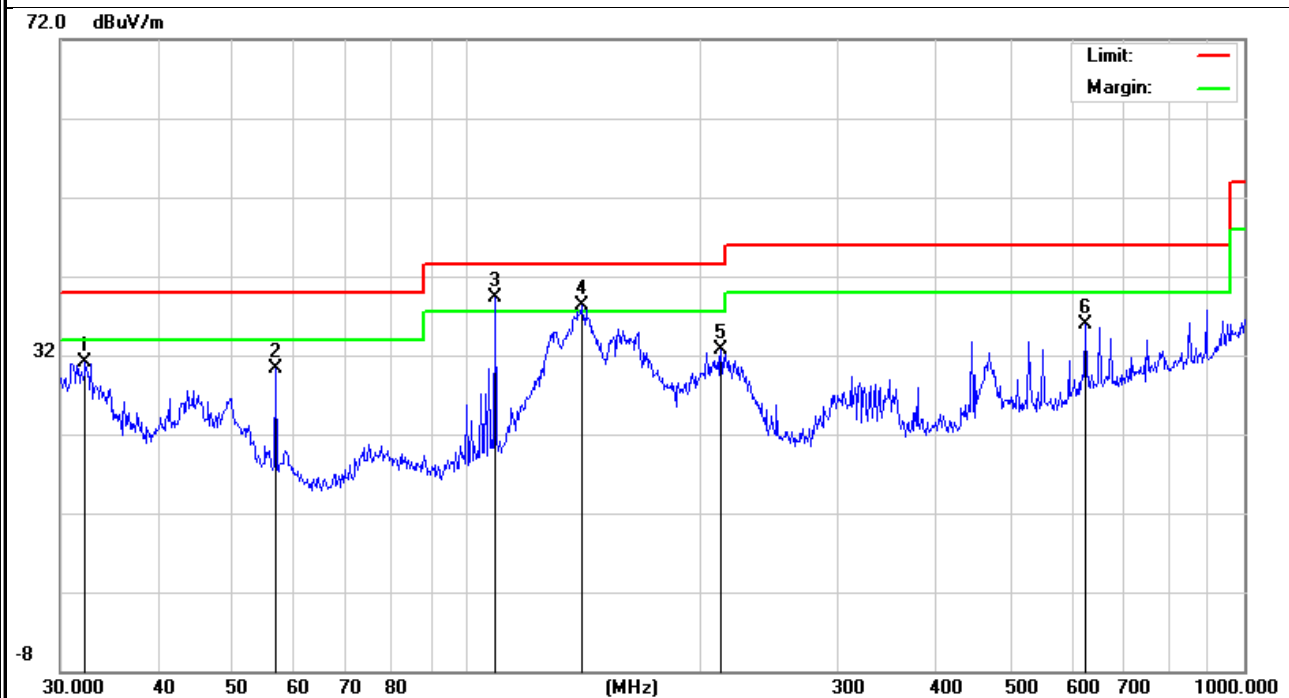


EUT:	3D TOUCH PROJECTOR	Model Name :	FSP6
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-8-27
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 14.4V From Adapter AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.2924	11.68	19.34	31.02	40	-8.98	QP
V	56.7916	23.08	7.24	30.32	40	-9.68	QP
V	108.647	28.02	11.31	39.33	43.5	-4.17	QP
V	140.3421	26.23	12.11	38.34	43.5	-5.16	QP
V	212.2694	20.35	12.31	32.66	43.5	-10.84	QP
V	625.0779	14.85	21.13	35.98	46	-10.02	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



3.2.5 TEST RESULTS(1000~25000MHz)

EUT:	3D TOUCH PROJECTOR	Model Name :	FSP6
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2016-8-27
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 14.4V From Adapter AC 120V/60Hz		

All the modulation modes have been tested, and the worst result was report as below:

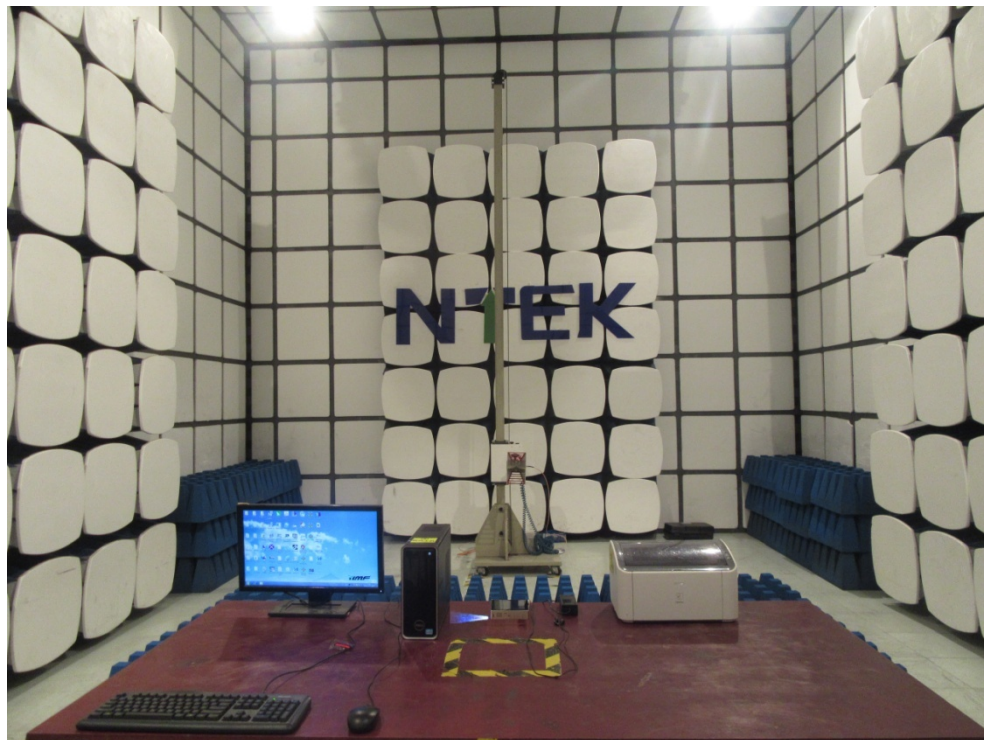
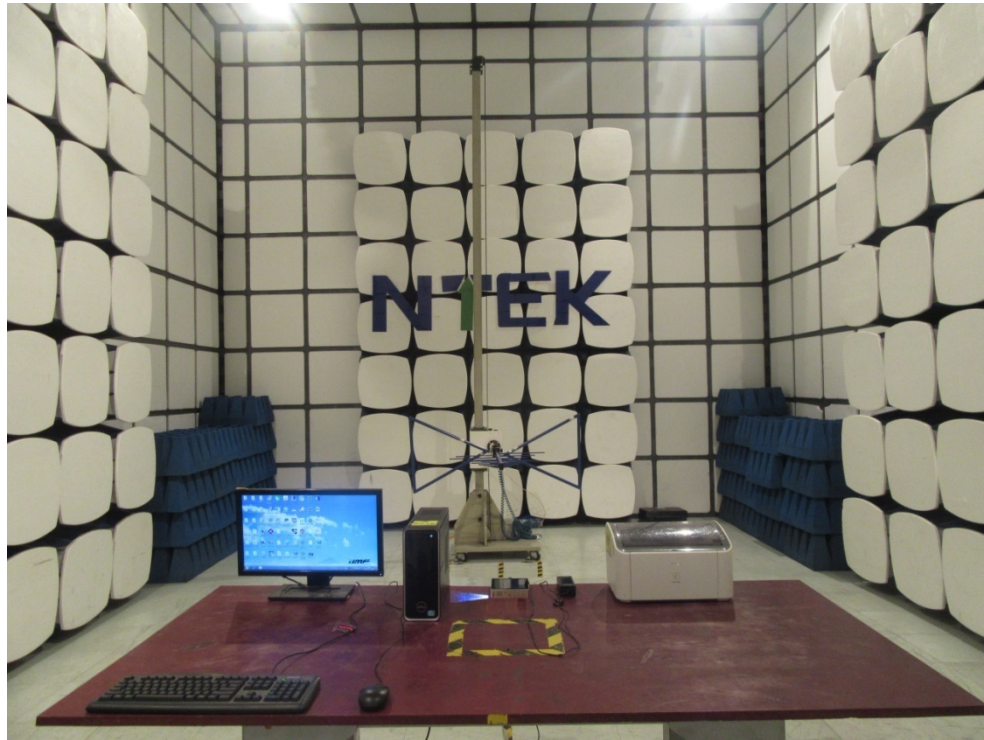
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1456.232	55.15	-13.38	41.77	74	-32.23	peak
V	1456.232	36.82	-13.38	23.44	54	-30.56	AVG
V	2388.385	53.7	-10.1	43.6	74	-30.4	peak
V	2388.385	37.69	-10.1	27.59	54	-26.41	AVG
H	1442.678	36.8	-13.4	23.4	54	-30.6	peak
H	1442.678	55.1	-13.4	41.7	74	-32.3	AVG
H	2400.524	52.72	-10.12	42.6	74	-31.4	peak
H	2400.524	36.27	-10.12	26.15	54	-27.85	AVG

Remark:

Note: (1) All other emissions more than 20dB below the limit.
(2)Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level – Limit

4. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Measurement Photos

