

FCC Test Report

FCC ID: 2ABFV-QTP2019

Product: Touch Smart QUICKTAB PLUS
Trade Mark: Touch Smart
Model Number: Touch Smart QUICKTAB PLUS
Family Model: N/A
Report No.: STR191029001008E

Prepared for

PC Smart S.A.
Carrera 116 no.15-25, Bogota, Colombia

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name.....: PC Smart S.A.
Address.....: Carrera 116 no.15-25, Bogota, Colombia
Manufacturer's Name.....: PC Smart S.A.
Address.....: Carrera 116 no.15-25, Bogota, Colombia

Product description

Product name.....: Touch Smart QUICKTAB PLUS
Model and/or type reference : Touch Smart QUICKTAB PLUS
Family Model.....: N/A
Standards: FCC Part15B
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

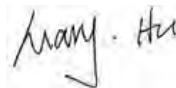
Date (s) of performance of tests: 15 Aug. 2019 ~ 03 Sep. 2019

Date of Issue: 31 Oct. 2019

Test Result.....: **Pass**

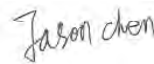
*Note: All test data of this report are based on the original test report
STR190814001008E, dated by 2019-09-04.*

Testing Engineer :



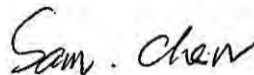
(Mary Hu)

Technical Manager :



(Jason Chen)

Authorized Signatory :



(Sam Chen)

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Revision History

[illegible]

1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B 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

Shenzhen NTEK Testing Technology Co., Ltd
 Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

IC-Registration The Certificate Registration Number is 9270A.
 CAB identifier:CN0074

FCC- Accredited Test Firm Registration Number: 463705.
 Designation Number: CN1184

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended 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	Touch Smart QUICKTAB PLUS	
Trade Mark	Touch Smart	
Model Name	Touch Smart QUICKTAB PLUS	
Family Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a Touch Smart QUICKTAB PLUS.	
	Connecting I/O port:	Micro USB, Earphone
	Operation Frequency:	2.568GHz
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.		
Power Source	3.8V/4050mAh from Battery or DC 5V from USB Port.	
Adapter	Model: GLY-G19UA-050150-540A-HQFY Input: 100-240V~50/60Hz 0.3A Output: 5V ---1500mA	
HW Version	FD625BP_MB_V2.0	
SW Version	QUICKTAB PLUS_TS19_PA19H02	

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	USB Data Transmission
Mode 2	TF card Playing
Mode 3	REC
Mode 4	FM

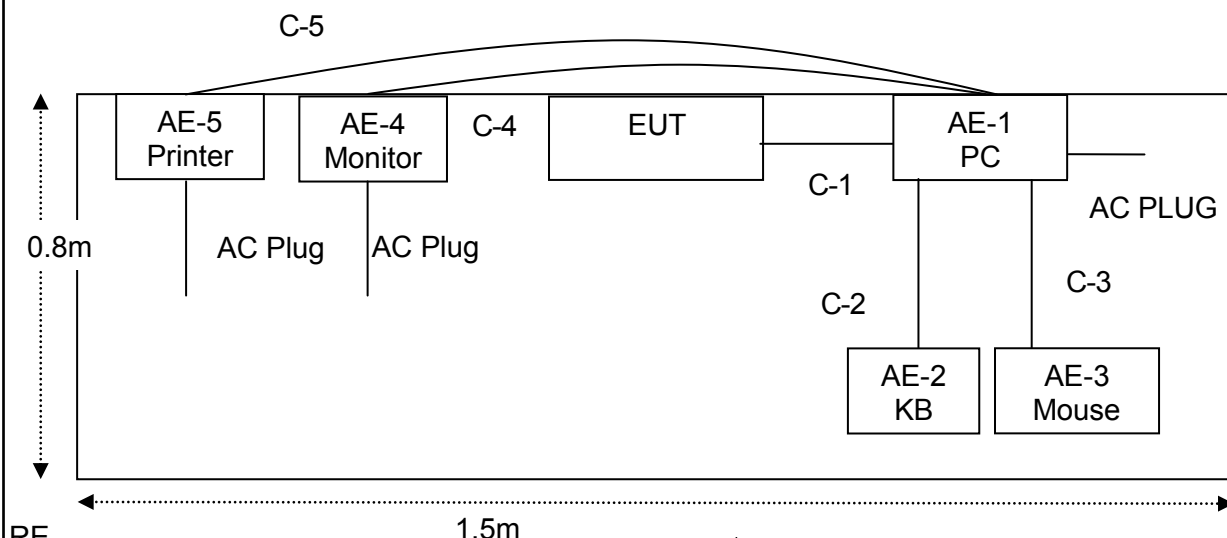
For Conducted Test	
Final Test Mode	Description
Mode 1	USB Data Transmission
Mode 2	TF card Playing
Mode 3	REC
Mode 4	FM

For Radiated Test	
Final Test Mode	Description
Mode 1	USB Data Transmission
Mode 2	TF card Playing
Mode 3	REC
Mode 4	FM

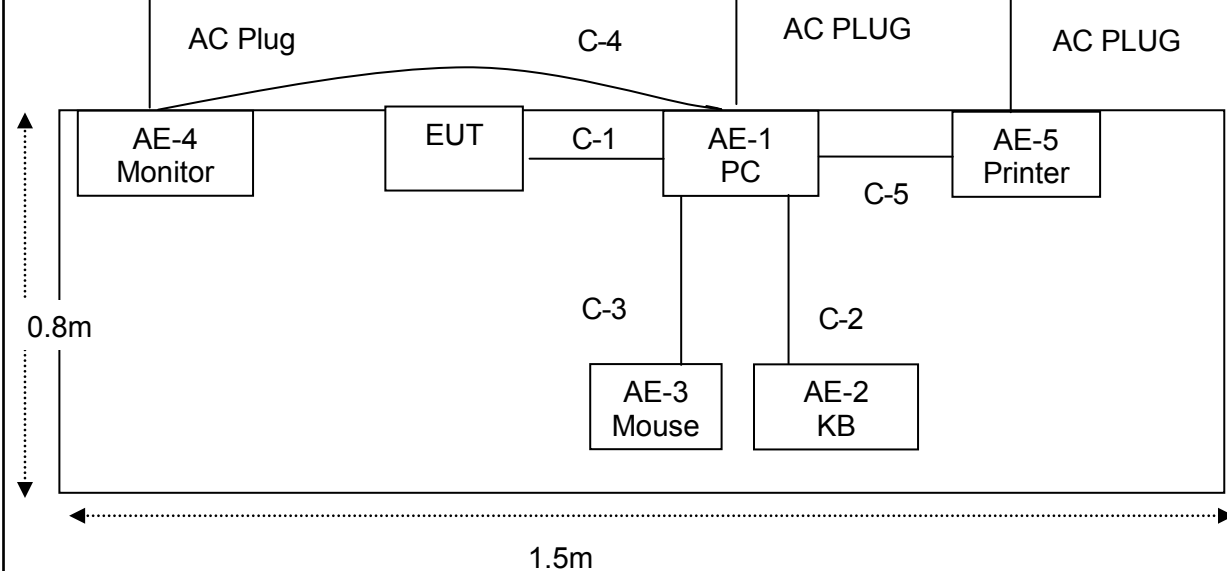
Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case.
Only the worst case mode is recorded in the report.

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
AE-1	PC	DELL	FT4Y23X	N/A	Peripherals
AE-2	KB	N/A	N/A	N/A	Peripherals
AE-3	Mouse	DELL	MS111-P	N/A	Peripherals
AE-4	Monitor	SHARP	LCD-32MS46A	N/A	Peripherals
AE-5	Printer	Canon	L11121E	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	1.0m	
C-2	KB Cable	NO	NO	1.2m	
C-3	Mouse Cable	NO	NO	1.2m	
C-4	HDMI Cable	YES	YES	1.0m	
C-5	USB Cable	NO	NO	1.2m	

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	2019.05.13	2020.05.12	1 year
2	Test Receiver	R&S	ESPI	101318	2019.05.13	2020.05.12	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2019.04.15	2020.04.14	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2019.05.13	2020.05.12	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2019.05.13	2020.05.12	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2019.04.15	2020.04.14	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2019.05.13	2020.05.12	1 year
8	Amplifier	EMC	EMC051835SE	980246	2019.08.04	2020.08.03	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2019.05.13	2020.05.12	1 year
10	Power Meter	DARE	RPR3006W	15I00041SNO84	2019.08.04	2020.08.03	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619.05	2019.05.13	2020.05.12	1 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
13	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
14	High Test Cable(1G-40GHz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year

AC 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	2019.05.13	2020.05.12	1 year
2	LISN	R&S	ENV216	101313	2019.04.15	2020.04.14	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2019.05.13	2020.05.12	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2019.05.13	2020.05.12	1 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable which is scheduled for calibration every 3 years.

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.

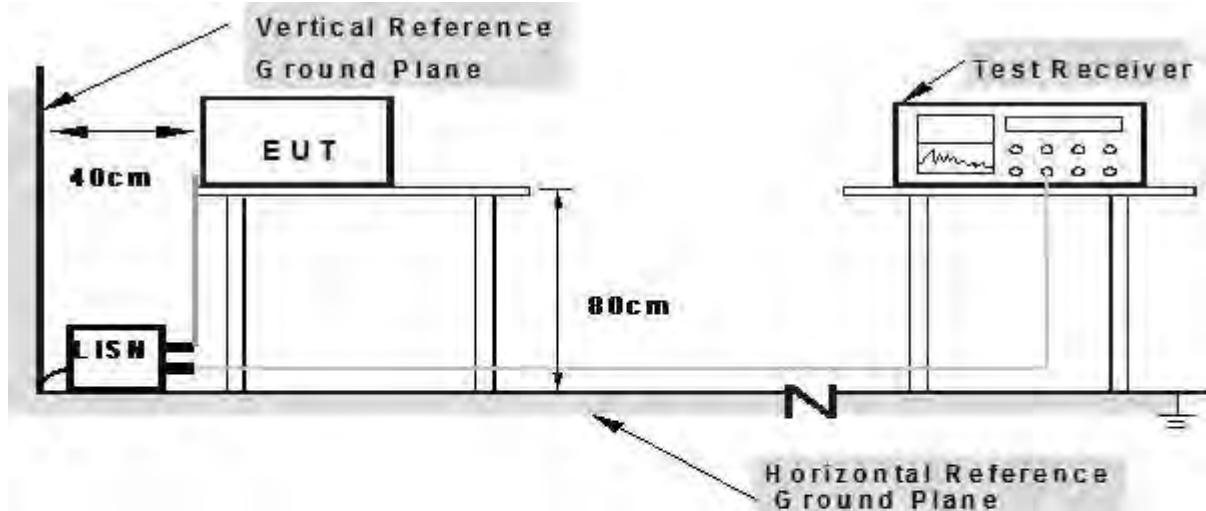
The following table is the setting of the receiver

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.

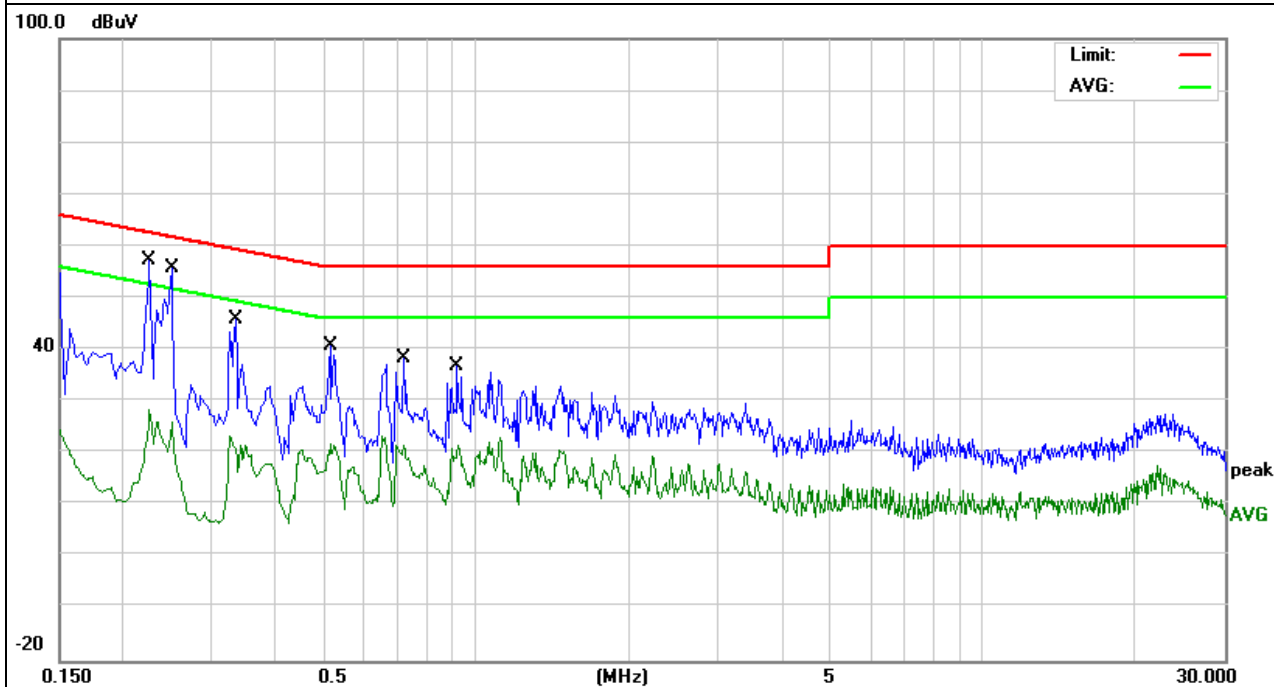
3.1.5 TEST RESULTS

EUT:	Touch Smart QUICKTAB PLUS	Model Name. :	Touch Smart QUICKTAB PLUS
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2019-09-02
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)	
0.2260	47.49	9.76	57.25	62.59	-5.34	QP
0.2260	18.73	9.76	28.49	52.59	-24.10	AVG
0.2500	46.08	9.76	55.84	61.75	-5.91	QP
0.2500	16.29	9.76	26.05	51.75	-25.70	AVG
0.3339	36.22	9.73	45.95	59.35	-13.40	QP
0.3339	13.51	9.73	23.24	49.35	-26.11	AVG
0.5140	31.12	9.74	40.86	56.00	-15.14	QP
0.5140	12.11	9.74	21.85	46.00	-24.15	AVG
0.7179	28.71	9.74	38.45	56.00	-17.55	QP
0.7179	13.49	9.74	23.23	46.00	-22.77	AVG
0.9140	27.04	9.74	36.78	56.00	-19.22	QP
0.9140	11.83	9.74	21.57	46.00	-24.43	AVG

Remark:

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

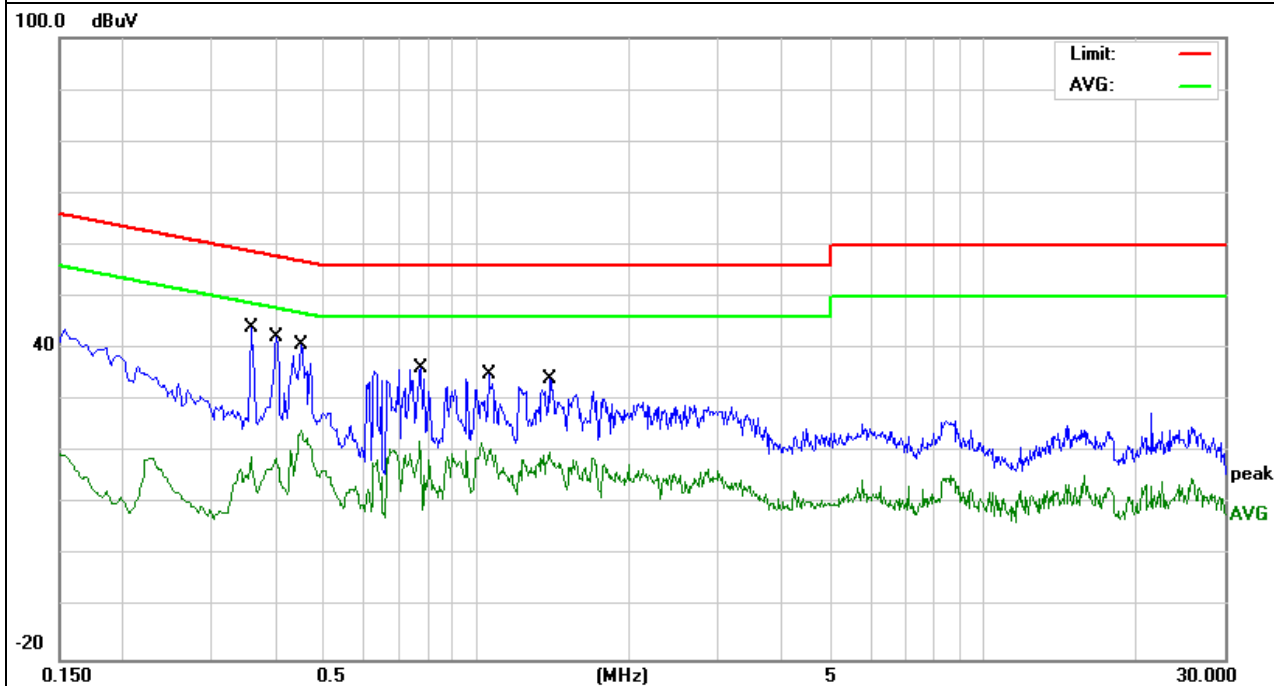


EUT:	Touch Smart QUICKTAB PLUS	Model Name. :	Touch Smart QUICKTAB PLUS
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2019-09-02
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.3578	34.42	9.75	44.17	58.78	-14.61	QP
0.3578	9.34	9.75	19.09	48.78	-29.69	AVG
0.4020	32.36	9.75	42.11	57.81	-15.70	QP
0.4020	10.61	9.75	20.36	47.81	-27.45	AVG
0.4500	31.08	9.75	40.83	56.87	-16.04	QP
0.4500	14.50	9.75	24.25	46.87	-22.62	AVG
0.7780	26.58	9.75	36.33	56.00	-19.67	QP
0.7780	12.54	9.75	22.29	46.00	-23.71	AVG
1.0580	25.25	9.75	35.00	56.00	-21.00	QP
1.0580	12.07	9.75	21.82	46.00	-24.18	AVG
1.3898	24.25	9.76	34.01	56.00	-21.99	QP
1.3898	10.22	9.76	19.98	46.00	-26.02	AVG

Remark:

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

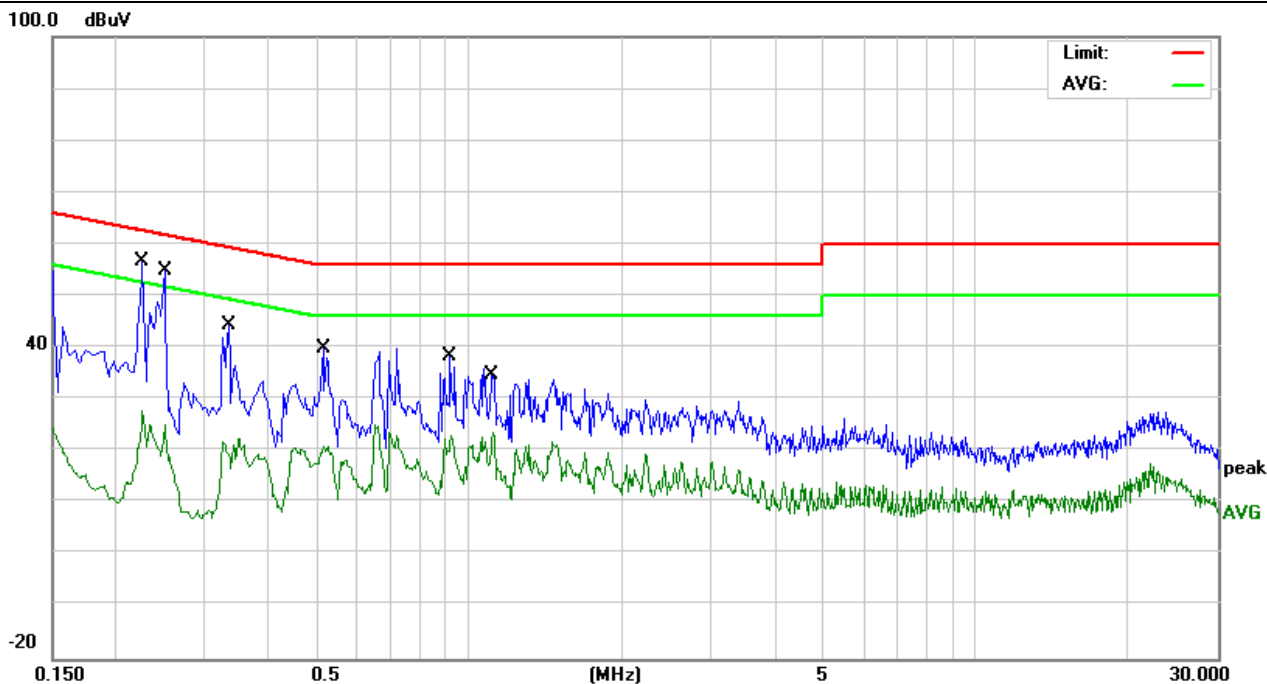


EUT:	Touch Smart QUICKTAB PLUS	Model Name. :	Touch Smart QUICKTAB PLUS
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2019-09-02
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from PC AC 240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2260	46.99	9.76	56.75	62.59	-5.84	QP
0.2260	18.23	9.76	27.99	52.59	-24.60	AVG
0.2500	45.08	9.76	54.84	61.75	-6.91	QP
0.2500	15.29	9.76	25.05	51.75	-26.70	AVG
0.3339	34.72	9.73	44.45	59.35	-14.90	QP
0.3339	12.74	9.73	22.47	49.35	-26.88	AVG
0.5140	30.12	9.74	39.86	56.00	-16.14	QP
0.5140	11.33	9.74	21.07	46.00	-24.93	AVG
0.9140	28.54	9.74	38.28	56.00	-17.72	QP
0.9140	12.73	9.74	22.47	46.00	-23.53	AVG
1.1140	24.72	9.74	34.46	56.00	-21.54	QP
1.1140	13.79	9.74	23.53	46.00	-22.47	AVG

Remark:

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

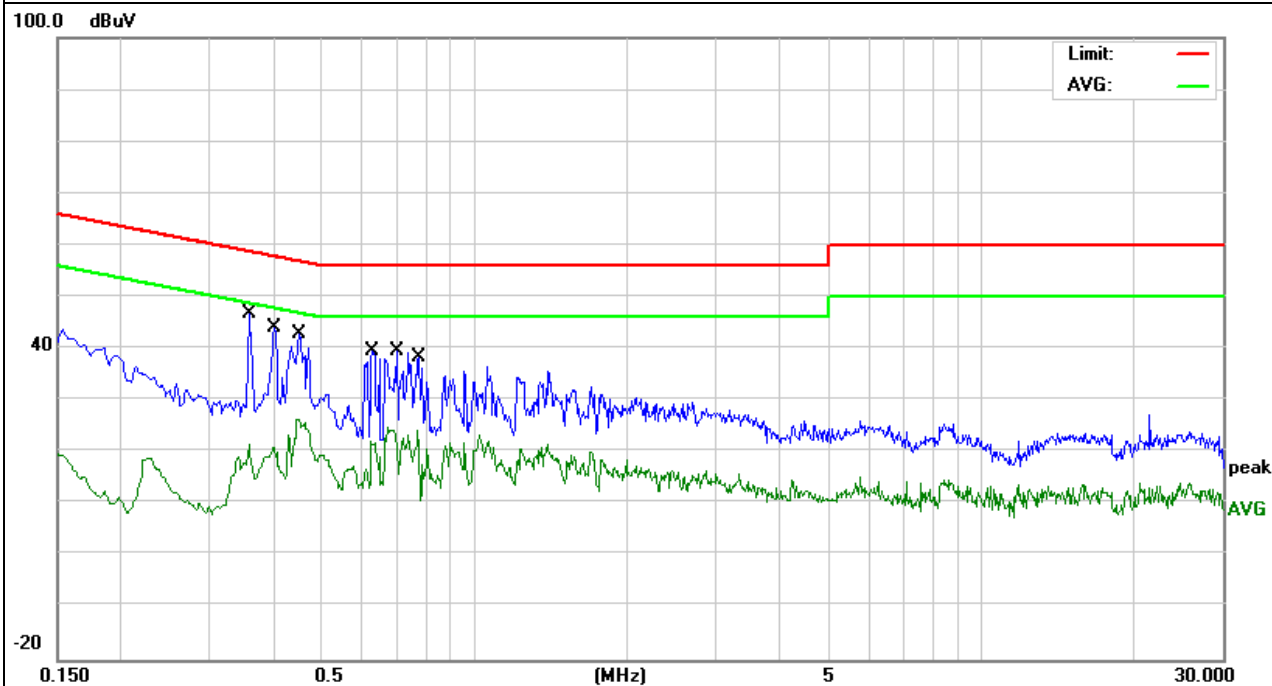


EUT:	Touch Smart QUICKTAB PLUS	Model Name. :	Touch Smart QUICKTAB PLUS
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2019-09-02
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC AC240V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.3578	36.92	9.75	46.67	58.78	-12.11	QP
0.3578	11.84	9.75	21.59	48.78	-27.19	AVG
0.4020	34.36	9.75	44.11	57.81	-13.70	QP
0.4020	11.31	9.75	21.06	47.81	-26.75	AVG
0.4500	33.08	9.75	42.83	56.87	-14.04	QP
0.4500	16.72	9.75	26.47	46.87	-20.40	AVG
0.6300	29.83	9.75	39.58	56.00	-16.42	QP
0.6300	12.33	9.75	22.08	46.00	-23.92	AVG
0.7016	29.73	9.75	39.48	56.00	-16.52	QP
0.7016	14.97	9.75	24.72	46.00	-21.28	AVG
0.7780	28.58	9.75	38.33	56.00	-17.67	QP
0.7780	14.54	9.75	24.29	46.00	-21.71	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.

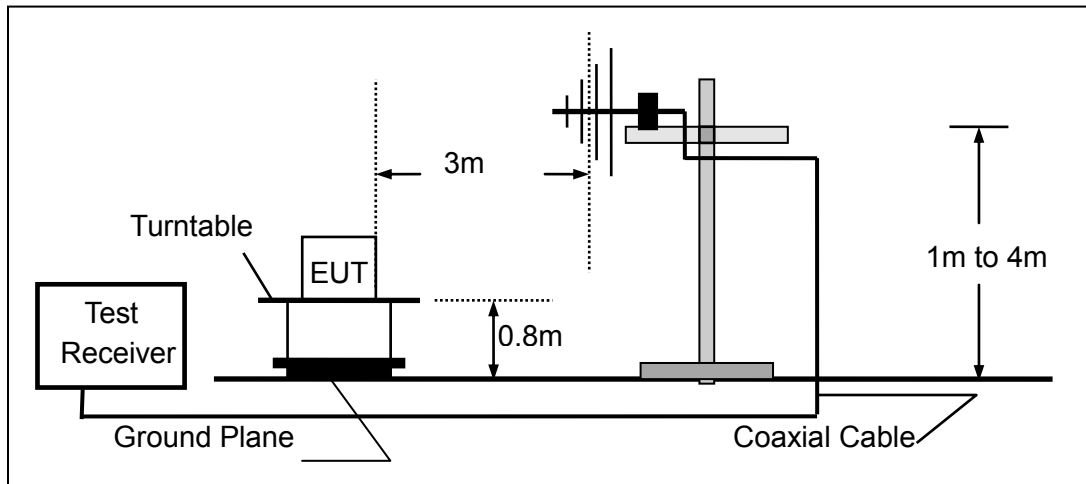
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

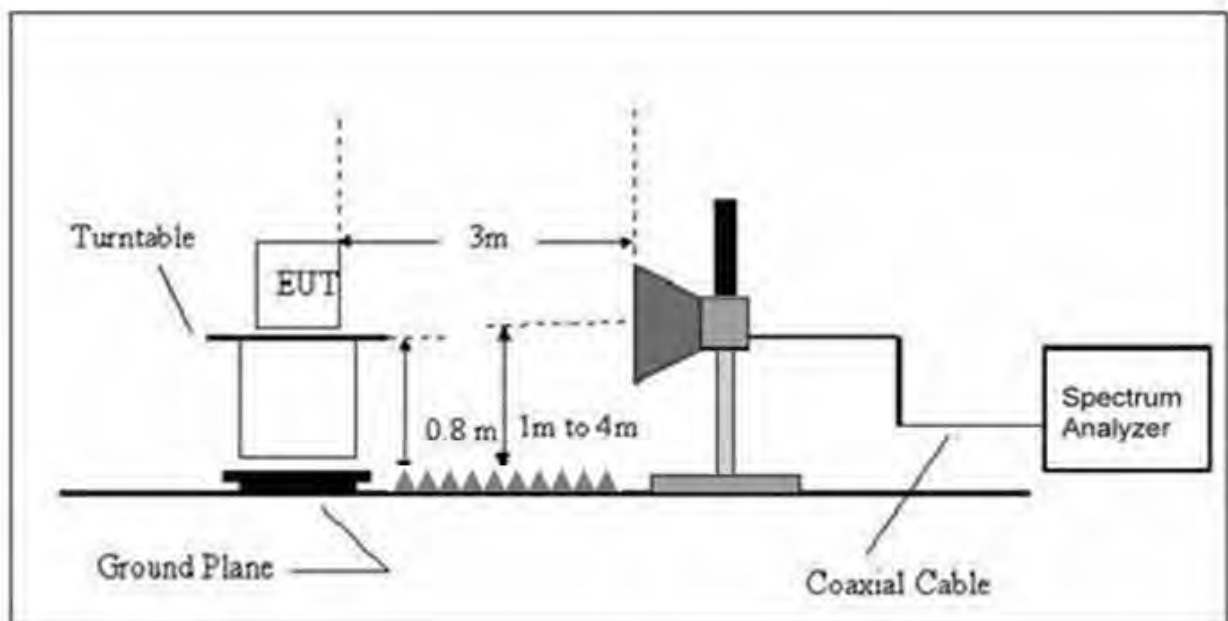
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Avg	1 MHz	3 MHz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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



3.2.4 TEST RESULTS

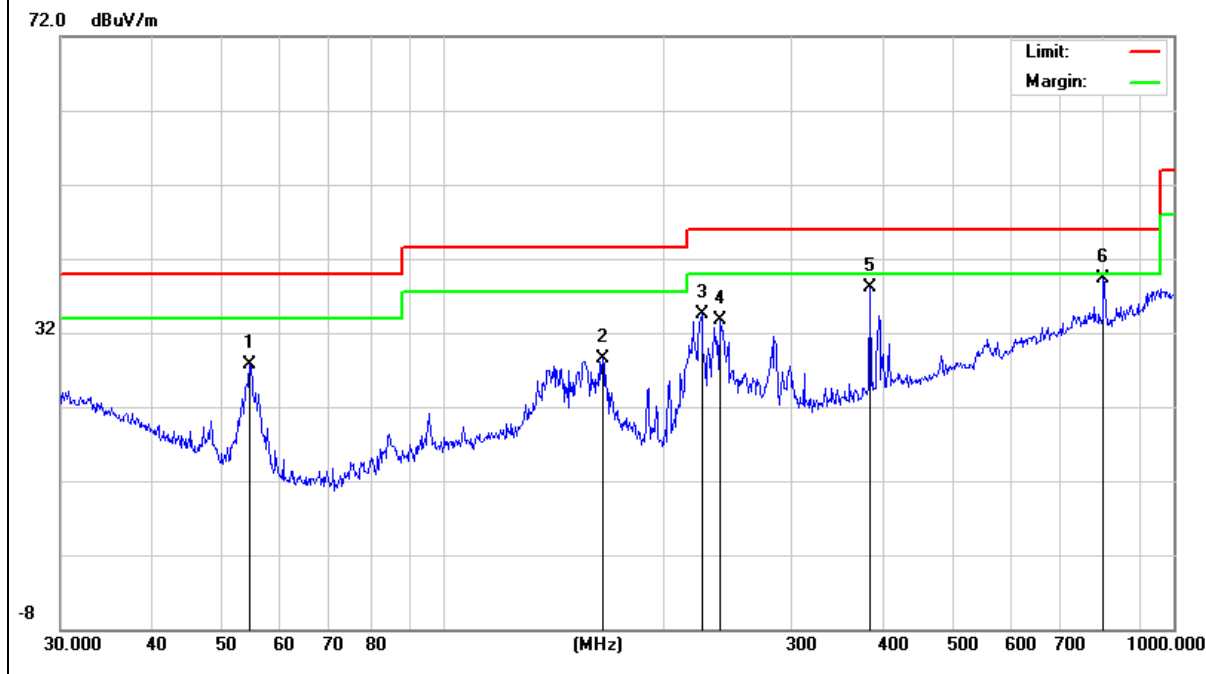
TEST RESULTS (30~1000 MHz)

EUT:	Touch Smart QUICKTAB PLUS	Model Name:	Touch Smart QUICKTAB PLUS
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2019-09-02
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V from PC AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	54.4516	20.20	7.42	27.62	40.00	-12.38	QP
H	165.4866	17.02	11.41	28.43	43.50	-15.07	QP
H	226.0994	22.55	12.02	34.57	46.00	-11.43	QP
H	239.1473	20.87	12.78	33.65	46.00	-12.35	QP
H	383.9318	19.38	18.78	38.16	46.00	-7.84	QP
H	801.7862	11.99	27.27	39.26	46.00	-6.74	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

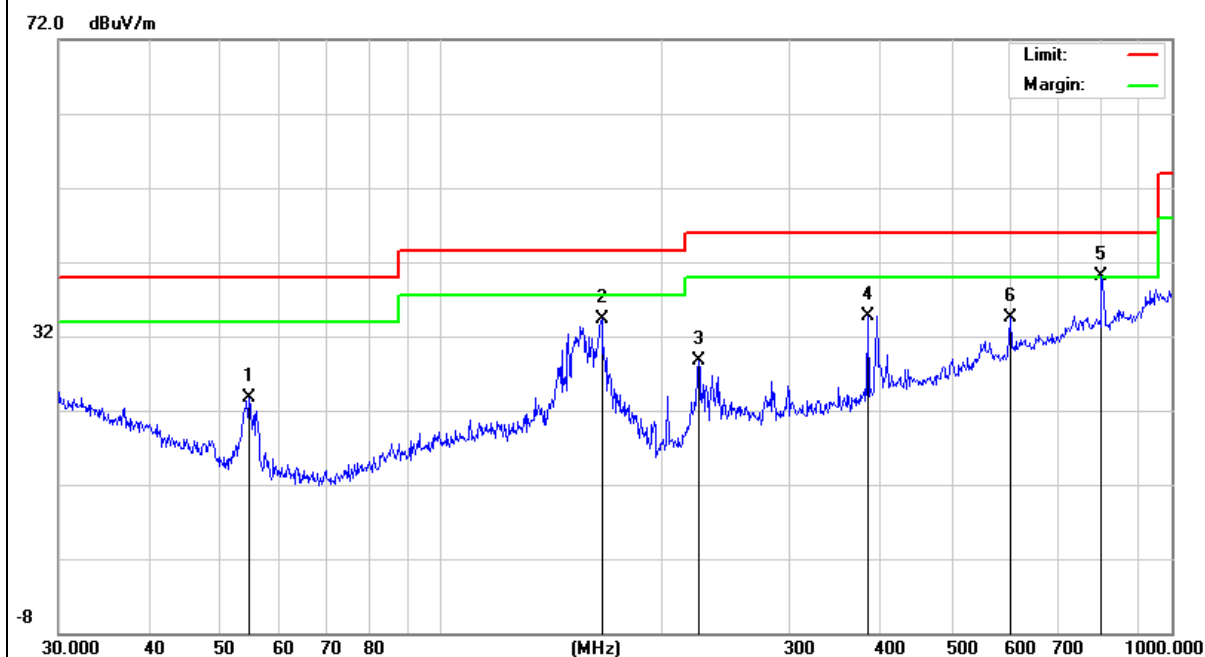


EUT:	Touch Smart QUICKTAB PLUS	Model Name :	Touch Smart QUICKTAB PLUS
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2019-09-02
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from PC AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	54.6429	16.30	7.36	23.66	40.00	-16.34	QP
V	166.0680	22.83	11.40	34.23	43.50	-9.27	QP
V	225.3080	16.65	12.01	28.66	46.00	-17.34	QP
V	383.9318	15.98	18.78	34.76	46.00	-11.24	QP
V	801.7863	12.88	27.27	40.15	46.00	-5.85	QP
V	601.4265	10.60	23.95	34.55	46.00	-11.45	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



3.2.5 TEST RESULTS(1000~26500MHz)

EUT:	Touch Smart QUICKTAB PLUS	Model Name :	Touch Smart QUICKTAB PLUS
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2019-09-02
Test Mode :	Mode 1		
Test Power :	DC 5V from PC AC 120V/60Hz		

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

Polar (H/V)	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Remark
V	8225.000	7.26	53.37	46.11	74.00	-27.89	peak
V	8225.000	18.11	53.37	35.26	54.00	-18.74	AVG
V	10605.000	-7.92	56.65	48.73	74.00	-25.27	peak
V	10605.000	-20.29	56.65	36.36	54.00	-17.64	AVG
V	13282.500	-8.73	60.85	52.12	74.00	-21.88	peak
V	13282.500	-17.64	60.85	43.21	54.00	-10.79	AVG
H	7077.500	8.55	50.52	41.97	74.00	-32.03	peak
H	7077.500	19.87	50.52	30.65	54.00	-23.35	AVG
H	10477.500	-7.13	55.74	48.61	74.00	-25.39	peak
H	10477.500	-17.78	55.74	37.96	54.00	-16.04	AVG
H	13622.500	-9.84	60.69	50.85	74.00	-23.15	peak
H	13622.500	-20.06	60.69	40.63	54.00	-13.37	AVG

Remark:

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

Note: Only the worst results data points are reported in the report.