Prüfbericht-Nr.: *Test Report No.:*	**50055364 001**	**Auftrags-Nr.:** *Order No.:*	164069058	Seite 1 von 93 *Page 1 of 93*
Kunden-Referenz-Nr.: *Client Reference No.:*	N/A	**Auftragsdatum:** *Order date:*	14.07.2016	
Auftraggeber: *Client:*	ContextMedia LLC 330 N. Wabash Ave STE 2500, Chicago, Illinois United States			
Prüfgegenstand: *Test item:*	Wallboard 32" Tablet			
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	P-WAL-106-YIT-01, P-WAL-106-YIT-02, P-WAL-106-YIT-03 (ContextMedia Health)			
Auftrags-Inhalt: *Order content:*	FCC/IC Certification			
Prüfgrundlage: *Test specification:*	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 RSS-247 Issue 1 May 2015 RSS-Gen Issue 4 November 2014			
Wareneingangsdatum: *Date of receipt:*	25.07.2016			
Prüfmuster-Nr.: *Test sample No.:*	A000395273-001, A000395273-002, A000395273-003			
Prüfzeitraum: *Testing period:*	27.07.2016 - 13.09.2016			
Ort der Prüfung: *Place of testing:*	Shenzhen EMTEK Co., Ltd.			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: *Test result*:*	Pass			

geprüft von / *tested by:*			**kontrolliert von** / *reviewed by:*		
18.09.2016	Andy Yan/Project Manager		18.09.2016	Owen Tian/Technical Certifier	
Datum *Date*	**Name / Stellung** *Name / Position*	**Unterschrift** *Signature*	**Datum** *Date*	**Name / Stellung** *Name / Position*	**Unterschrift** *Signature*

Sonstiges / *Other:*	FCC ID: 2AI6X-PWALYIT IC: 21722-PWALYIT
Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery:*	Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged*

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
Legend:	*1 = very good*	*2 = good*	*3 = satisfactory*	*4 = sufficient*	*5 = poor*
	P(ass) = passed a.m. test specification(s)		*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.
This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.
V04

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 PEAK OUTPUT POWER
RESULT: Pass

5.1.3 20DB BANDWIDTH AND 99% BANDWIDTH
RESULT: Pass

5.1.4 6DB BANDWIDTH AND 99% BANDWIDTH
RESULT: Pass

5.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHZ BANDWIDTH
RESULT: Pass

5.1.6 POWER SPECTRAL DENSITY
RESULT: Pass

5.1.7 SPURIOUS EMISSION
RESULT: Pass

5.1.8 FREQUENCY SEPARATION
RESULT: Pass

5.1.9 NUMBER OF HOPPING FREQUENCY
RESULT: Pass

5.1.10 TIME OF OCCUPANCY
RESULT: Pass

5.1.11 CONDUCTED EMISSIONS
RESULT: Pass

Contents

1. GENERAL REMARKS 4
1.1 COMPLEMENTARY MATERIALS 4
2. TEST SITES 4
2.1 TEST FACILITIES 4
2.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS 5
2.3 TRACEABILITY 6
2.4 CALIBRATION 6
2.5 MEASUREMENT UNCERTAINTY 6
2.6 LOCATION OF ORIGINAL DATA 6
2.7 STATUS OF FACILITY USED FOR TESTING 7
3. GENERAL PRODUCT INFORMATION 8
3.1 PRODUCT FUNCTION AND INTENDED USE 8
3.2 RATINGS AND SYSTEM DETAILS 8
3.3 INDEPENDENT OPERATION MODES 10
3.4 NOISE GENERATING AND NOISE SUPPRESSING PARTS 10
3.5 SUBMITTED DOCUMENTS 10
4. TEST SET-UP AND OPERATION MODES 11
4.1 PRINCIPLE OF CONFIGURATION SELECTION 11
4.2 TEST OPERATION AND TEST SOFTWARE 11
4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT 11
4.4 COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE 11
4.5 TEST SETUP DIAGRAM 12
5. TEST RESULTS 14
5.1 TRANSMITTER REQUIREMENT & TEST SUITES 14
5.1.1 Antenna Requirement 14
5.1.2 Peak Output Power 15
5.1.3 20dB Bandwidth and 99% Bandwidth 16
5.1.4 6dB Bandwidth and 99% Bandwidth 17
5.1.5 Conducted Spurious Emissions measured in 100kHz Bandwidth 18
5.1.6 Power spectral density 31
5.1.7 Spurious Emission 32
5.1.8 Frequency Separation 85
5.1.9 Number of hopping frequency 86
5.1.10 Time of Occupancy 87
5.1.11 Conducted emissions 88
6. PHOTOGRAPHS OF THE TEST SET-UP 91
7. LIST OF TABLES 93
8. LIST OF PHOTOGRAPHS 93

1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Shenzhen EMTEK Co., Ltd.

(FCC Registration No.: 709623)
(Test site Industry Canada No.: 4480A-2)

Bldg 69, Majialong Industry Zone, Nanshan District,
Shenzhen, Guangdong, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Transmitter spurious emissions				
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	2017-05-16
Loop Antenna	Schwarzbeck	FMZB 1519	1519-012	2017-05-16
Cable	H+B	3M SF104-26.5	295838/4	2017-05-28
Cable	H+B	6M SF104-26.5	295840/4	2017-05-28
Pre-Amplifier	HP	8447F	2944A07999	2017-05-16
Bilog Antenna	Schwarzbeck	VULB9163	142	2017-05-28
Cable	Schwarzbeck	AK9513	ACRX1	2017-05-16
Cable	Rosenberger	N/A	FP2RX2	2017-05-16
Cable	Schwarzbeck	AK9513	CRPX1	2017-05-28
Cable	Schwarzbeck	AK9513	CRRX2	2017-05-28
Pre-Amplifier	A.H.	PAM-0126	1415261	2017-05-16
Horn Antenna	Schwarzbeck	BBHA 9120	707	2017-05-28
Pre-Amplifier	A.H.	PAM-0126	1415261	2017-05-16
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	2017-05-16
EMI Test Receiver	Rohde & Schwarz	FSV40	132.1-3008K39-100967-AP	2017-05-16
Pre-Amplifier	Lunar EM	LNA26G40-40	J1013131028001	2017-05-16
Horn Antenna	AHS/USA	SAS-573	184	2017-05-16
Cable	H+B	0.5M SF104-26.5	289147/4	2017-05-16
Cable	H+B	3M SF104-26.5	295838/4	2017-05-16
Cable	H+B	6M SF104-26.5	295840/4	2017-05-16
Radio Spectrum Test				
EMI Test Receiver	Rohde & Schwarz	ESCI	101045	2017-05-16
Vector Signal Generater	Agilent	N5182B	My53050553	2017-05-28
Analog Signal Generator	Agilent	N5171B	My53050878	2017-05-28
Signal Analyzer	Agilent	N9010A	My53470879	2017-05-28
Power Meter	Agilent	PS-X10-100	N/A	2017-05-28
Temp. / Humidity Chamber	Kingson	THS-M1	242	2017-05-28
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	2017-05-16
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	2017-05-16
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	2017-05-16
Voltage Probe	Rohde & Schwarz	TK9416	N/A	2017-05-16
I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	2017-05-16
50Ω Coaxial Switch	Anritsu	MP59B	M20531	2017-05-16

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	±1x10^-5
Maximum Peak Output Power Test	±1.0dB
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Power Density	±2.0dB
Occupied Bandwidth Test	±1.0dB
Band Edge Test	±3dB
All emission, radiated	±3dB
Antenna Port Emission	±3dB
Temperature	±0.5℃
Humidity	±3%

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

Shenzhen EMTEK Co., Ltd. test facility located at Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUTs are wallboard 32'' tablet with Wi-Fi, Bluetooth function.
All models are identical except the model name.
For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of Bluetooth (BDR & EDR mode)

Technical Specification	Value
Kind of Equipment	Wallboard 32" Tablet
Type Designation	P-WAL-106-YIT-01, P-WAL-106-YIT-02, P-WAL-106-YIT-03
FCC ID	2AI6X-PWALYIT
IC	21722-PWALYIT
Operating Frequency band	2402 – 2480MHz
Channel separation	1MHz
Extreme Temperature Range	0~+40℃
Operation Voltage	DC 12V (via AC/DC adapter)
Modulation	FHSS, GFSK, 8DPSK, π/4DQPSK
Bluetooth version	4.0, Dual Mode
Antenna Gain	2.52dBi

Table 4: RF channel and frequency of Bluetooth (BDR & EDR mode)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	21	2423.00	42	2444.00	63	2465.00
1	2403.00	22	2424.00	43	2445.00	64	2466.00
2	2404.00	23	2425.00	44	2446.00	65	2467.00
3	2405.00	24	2426.00	45	2447.00	66	2468.00
4	2406.00	25	2427.00	46	2448.00	67	2469.00
5	2407.00	26	2428.00	47	2449.00	68	2470.00
6	2408.00	27	2429.00	48	2450.00	69	2471.00
7	2409.00	28	2430.00	49	2451.00	70	2472.00
8	2410.00	29	2431.00	50	2452.00	71	2473.00
9	2411.00	30	2432.00	51	2453.00	72	2474.00
10	2412.00	31	2433.00	52	2454.00	73	2475.00
11	2413.00	32	2434.00	53	2455.00	74	2476.00

12	2414.00	33	2435.00	54	2456.00	75	2477.00
13	2415.00	34	2436.00	55	2457.00	76	2478.00
14	2416.00	35	2437.00	56	2458.00	77	2479.00
15	2417.00	36	2438.00	57	2459.00	78	2480.00
16	2418.00	37	2439.00	58	2460.00		
17	2419.00	38	2440.00	59	2461.00		
18	2420.00	39	2441.00	60	2462.00		
19	2421.00	40	2442.00	61	2463.00		
20	2422.00	41	2443.00	62	2464.00		

Table 5: Technical Specification of Bluetooth (Low Energy mode)

Technical Specification	**Value**
Kind of Equipment	Wallboard 32" Tablet
Type Designation	P-WAL-106-YIT-01, P-WAL-106-YIT-02, P-WAL-106-YIT-03
FCC ID	2AI6X-PWALYIT
IC	21722-PWALYIT
Operating Frequency band	2402 – 2480MHz
Channel separation	2MHz
Extreme Temperature Range	0~+40℃
Operation Voltage	DC 12V (via AC/DC adapter)
Modulation	GFSK
Bluetooth version	4.0, Dual Mode
Antenna Gain	2.52dBi

Table 6: RF channel and frequency of Bluetooth (Low Energy mode)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	11	2424.00	22	2446.00	33	2468.00
1	2404.00	12	2426.00	23	2448.00	34	2470.00
2	2406.00	13	2428.00	24	2450.00	35	2472.00
3	2408.00	14	2430.00	25	2452.00	36	2474.00
4	2410.00	15	2432.00	26	2454.00	37	2476.00
5	2412.00	16	2434.00	27	2456.00	38	2478.00
6	2414.00	17	2436.00	28	2458.00	39	2480.00
7	2416.00	18	2438.00	29	2460.00		
8	2418.00	19	2440.00	30	2462.00		
9	2420.00	20	2442.00	31	2464.00		
10	2422.00	21	2444.00	32	2466.00		

3.3 Independent Operation Modes

The basic operation modes are:

A. On
   1. Bluetooth mode (BDR & EDR mode)
      a. Tansmitting
         i. Low Channel
         ii. Middle Channel
         iii. High Channel
      b. Receiving
   2. Bluetooth mode (Low Energy mode)
      a. Tansmitting
         i. Low Channel
         ii. Middle Channel
         iii. High Channel
      b. Receiving
B. Standby
C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- Circuit Diagram
- PCB Layout
- Instruction Manual
- Photo Document
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	Rating
AC/DC Adapter	FUJIA	FJ-SW1205000	Input: AC 100-240V, 50/60Hz, 1.5A Output: DC 12.0V, 5.0A

The EUT was tested with following cables:

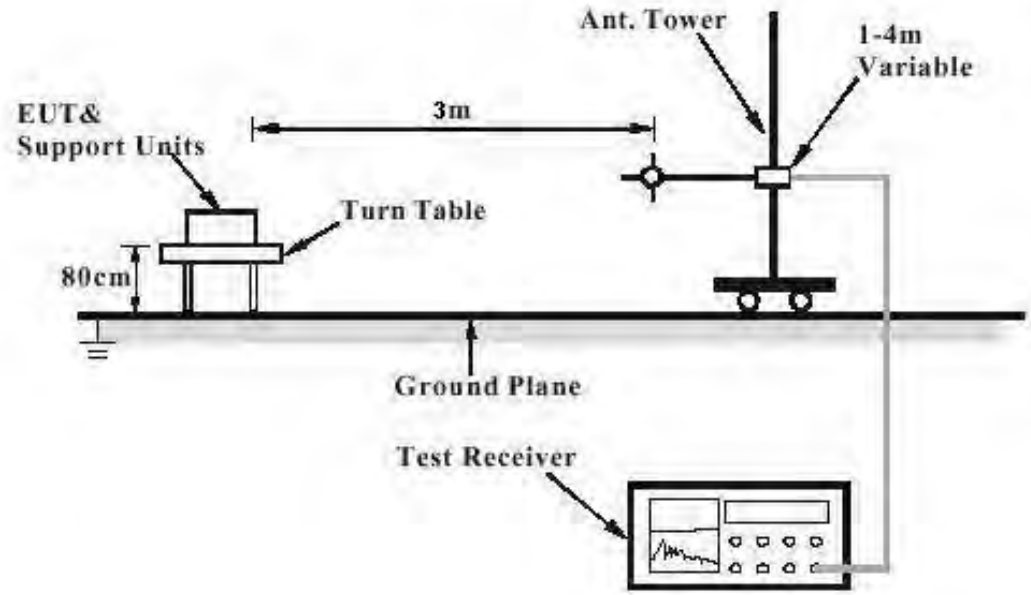
Interface(s)/Port(s):	**Max. cable length, shielding**	**Cable classification**
AC Mains of adapter	2 cores, non-shielded port, 3m	AC Power Input
DC input port	2 cores, non-shielded port, 1m	DC Power Input

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



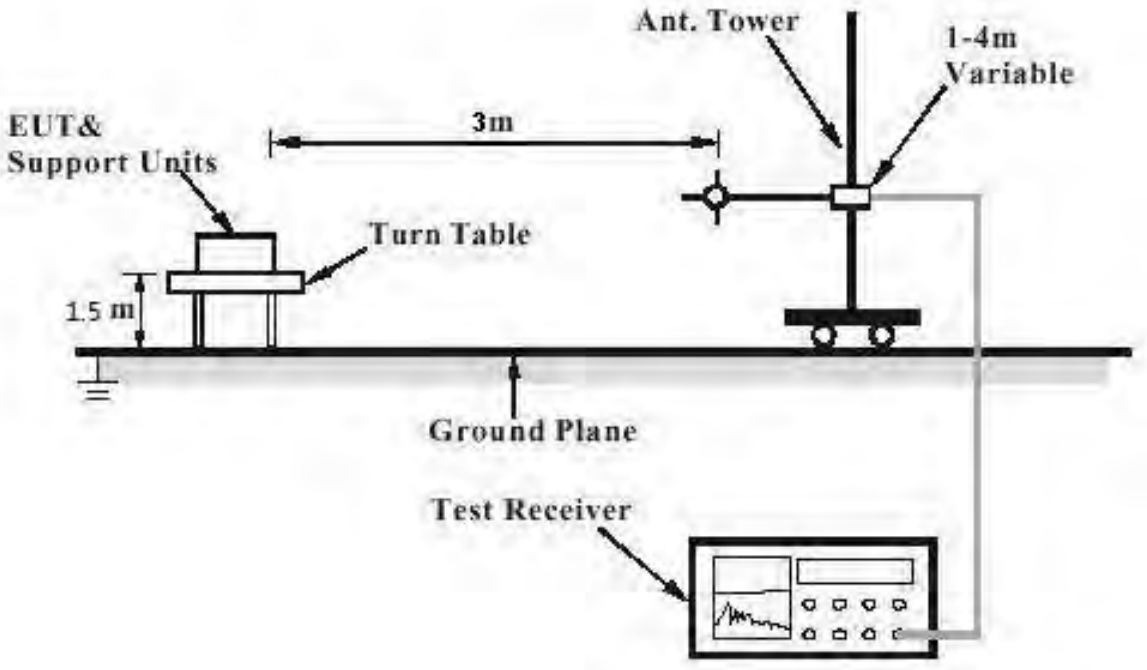


Diagram of Measurement Equipment Configuration for Conduction Measurement

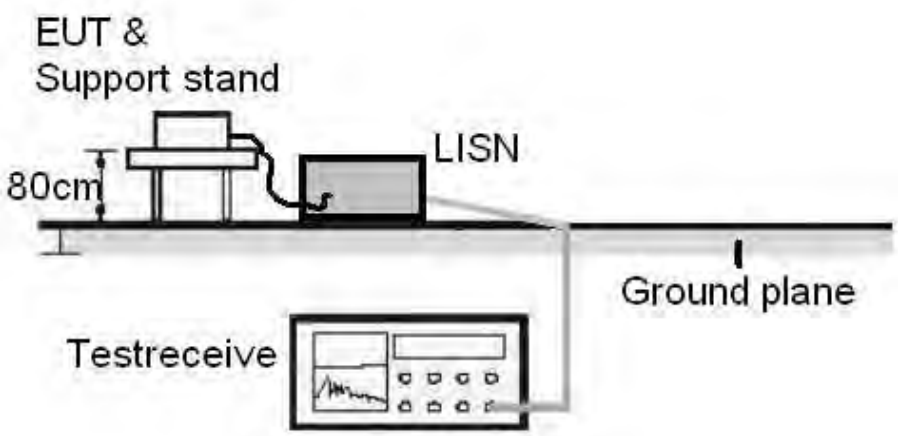
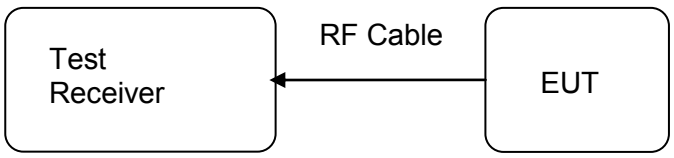


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test standard	:	Part 15.203 RSS-Gen Clause 8.3
Limit		The use of antennas with directional gains that do not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 2.52dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

5.1.2 Peak Output Power

RESULT: **Pass**

Test date	:	2016-09-09
Test standard	:	FCC Part 15.247(b)(1) FCC Part 15.247(b)(3) RSS-247 clause 5.4(2) RSS-247 clause 5.4(4)
Basic standard	:	ANSI C63.10: 2013 Clause 9.1 of KDB 558074 v03r01
Limit	:	1W
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a, A.2.a
Ambient temperature	:	25℃
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 7: Test result of Peak Output Power of Buletooth (BDR mode)

Channel	Channel Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
Low Channel	2402	4.228	30
Middle Channel	2441	5.632	30
High Channel	2480	4.107	30

Table 8: Test result of Peak Output Power of Bluetooth (EDR mode)

Channel	Channel Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
Low Channel	2402	3.054	30
Middle Channel	2441	4.643	30
High Channel	2480	2.863	30

Table 9: Test result of Peak Output Power of Bluetooth (Low Energy mode)

Channel	Channel Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
Low Channel	2402	0.978	30
Middle Channel	2440	3.403	30
High Channel	2480	3.917	30

5.1.3 20dB Bandwidth and 99% Bandwidth

RESULT: **Pass**

Date of testing	:	2016-07-26
Test standard	:	FCC Part 15.247(a)(1) RSS-247 clause 5.1(2) RSS-Gen clause 6.6
Basic standard	:	ANSI C63.10: 2013 Clause 8 of KDB 558074 v03r01
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25℃
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 10: Test result of 20dB and 99% Bandwidth of BDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	1.046	0.941
Mid Channel	2441	1.045	0.940
High Channel	2480	1.048	0.944

Table 11: Test result of 20dB and 99% Bandwidth of EDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	1.327	1.173
Mid Channel	2441	1.329	1.173
High Channel	2480	1.329	1.174

5.1.4 6dB Bandwidth and 99% Bandwidth

RESULT: **Pass**

Date of testing	:	2016-07-26
Test standard	:	FCC Part 15.247(a)(2) RSS-247 clause 5.2(1) RSS-Gen clause 6.6
Basic standard	:	ANSI C63.10: 2013 Clause 8 of KDB 558074 v03r01
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.2.a
Ambient temperature	:	25℃
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 12: Test result of 6dB Bandwidth and 99% Bandwidth of Bluetooth, Low Energy mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit of 6dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.719	≥0.5	1.063
Mid Channel	2440	0.717	≥0.5	1.062
High Channel	2480	0.708	≥0.5	1.063

5.1.5 Conducted Spurious Emissions measured in 100kHz Bandwidth

RESULT: **Pass**

Date of testing	:	2016-09-13
Test standard	:	FCC part 15.247(d) RSS-247 clause 5.5
Basic standard	:	ANSI C63.10: 2013
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
Kind of test site	:	Shield room

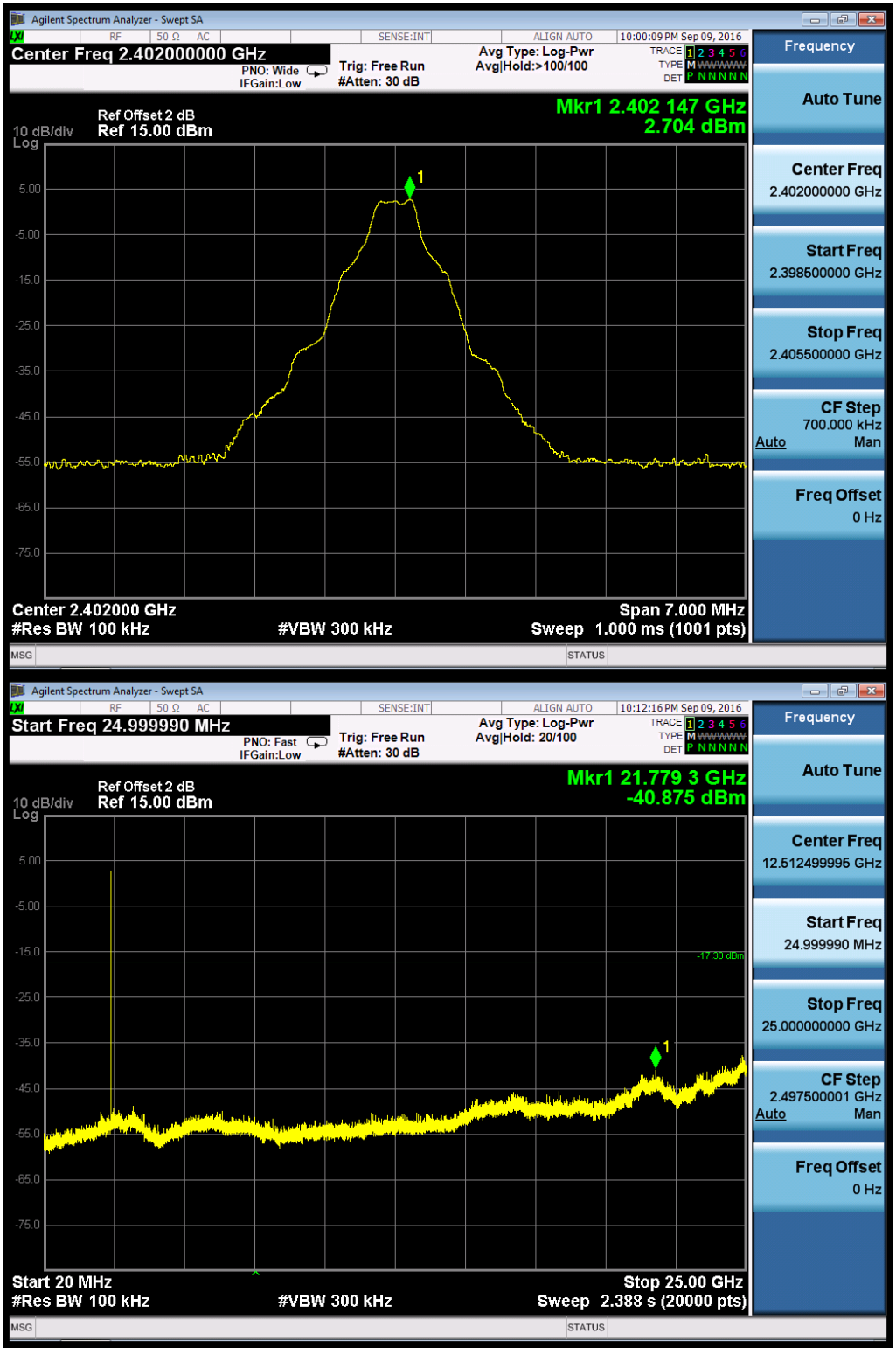
Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a, A.2.a
Ambient temperature	:	25℃
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

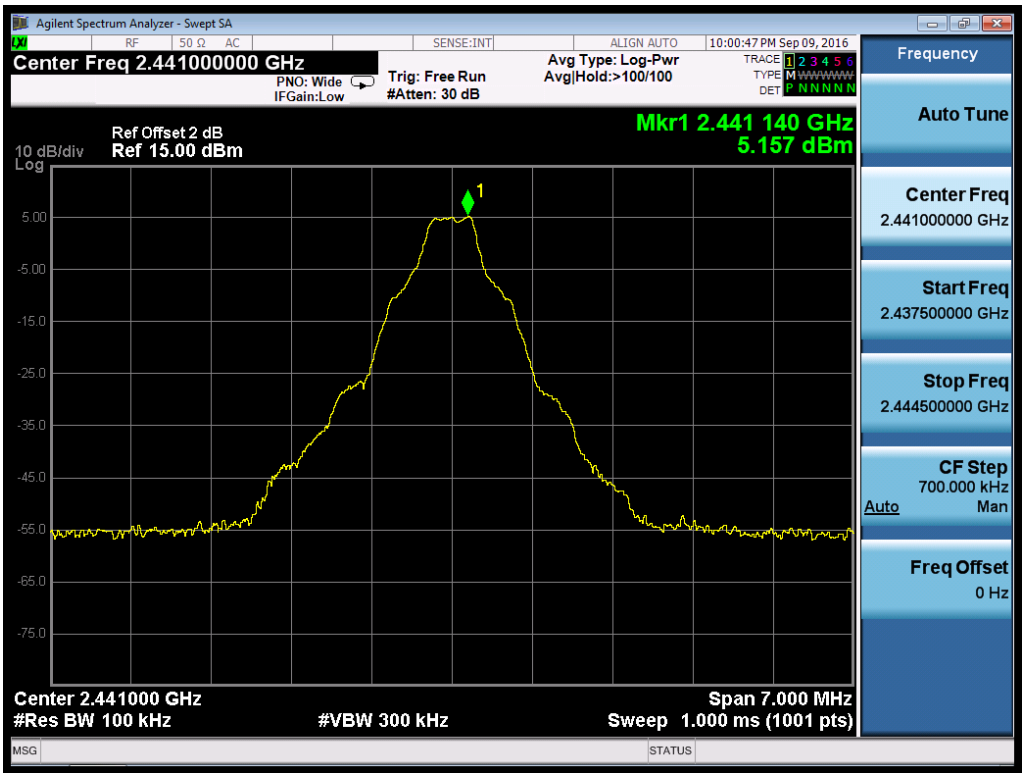
For details refer to following test plot.

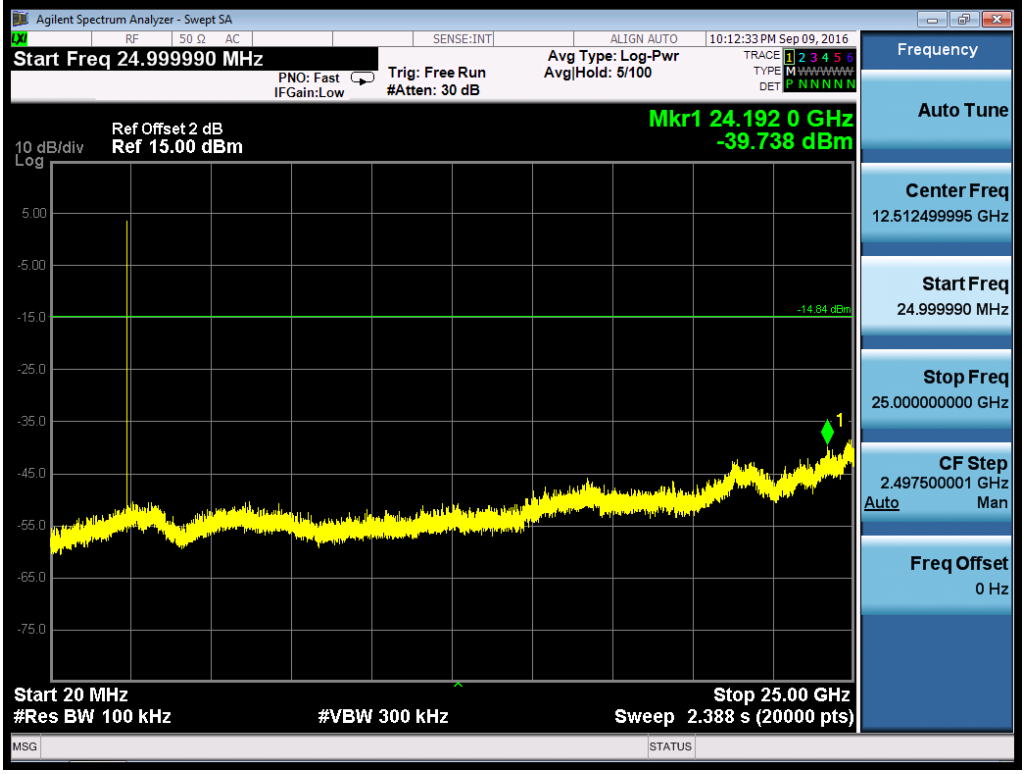
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of BDR mode

Low Channel

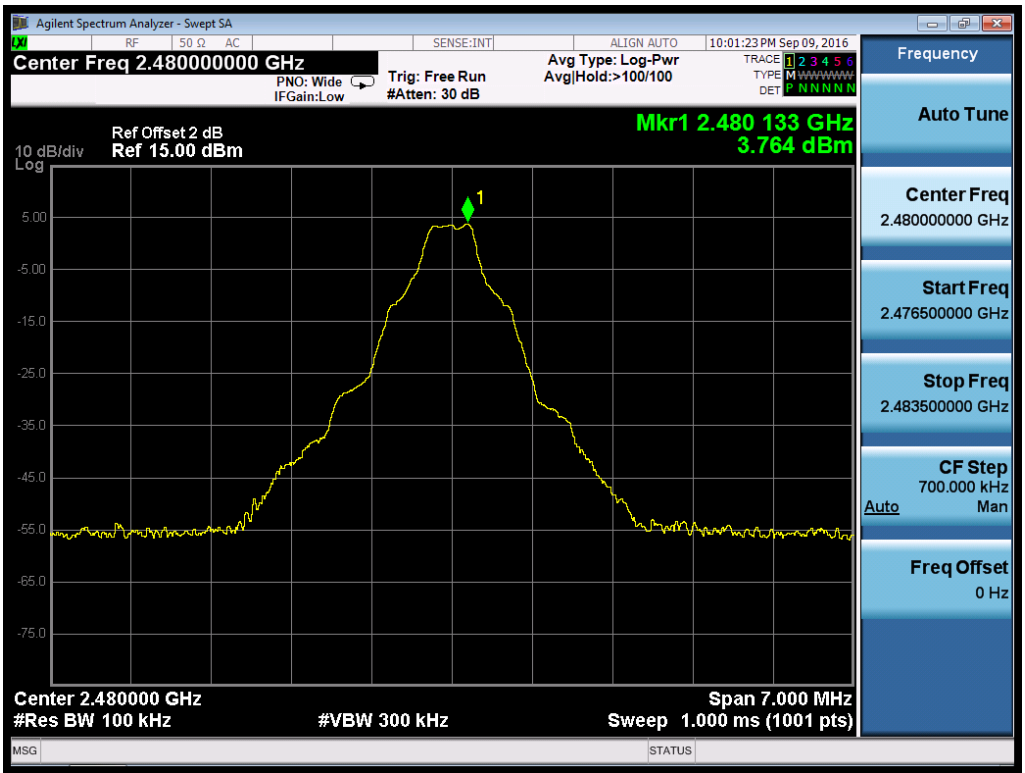


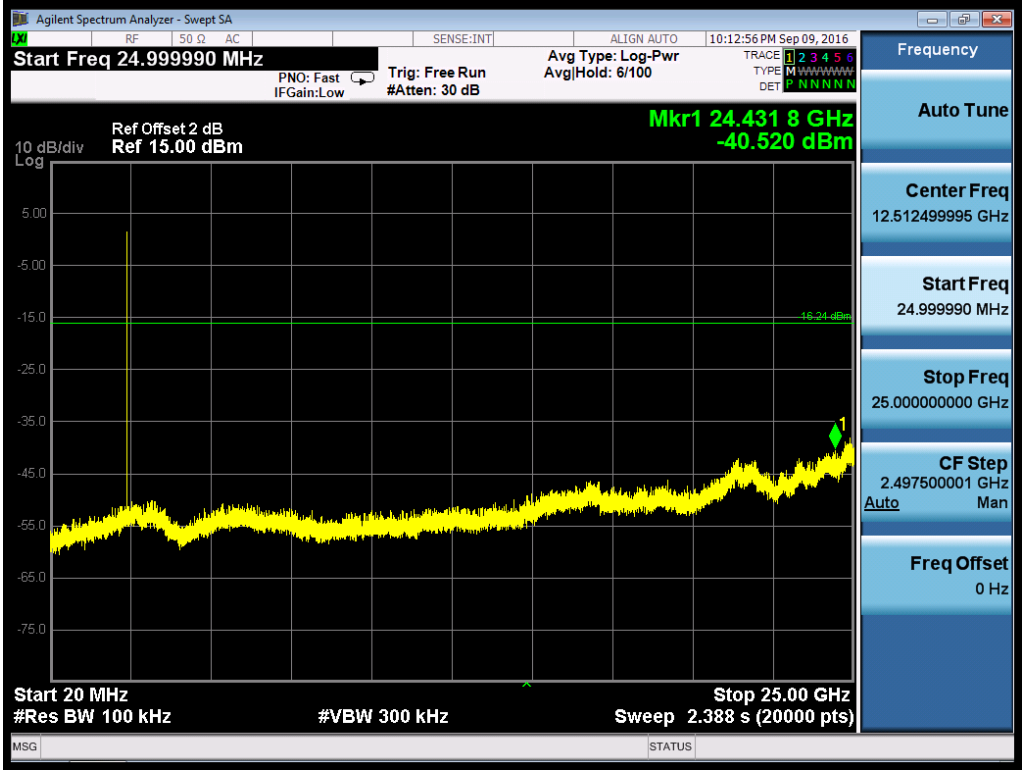
Middle Channel



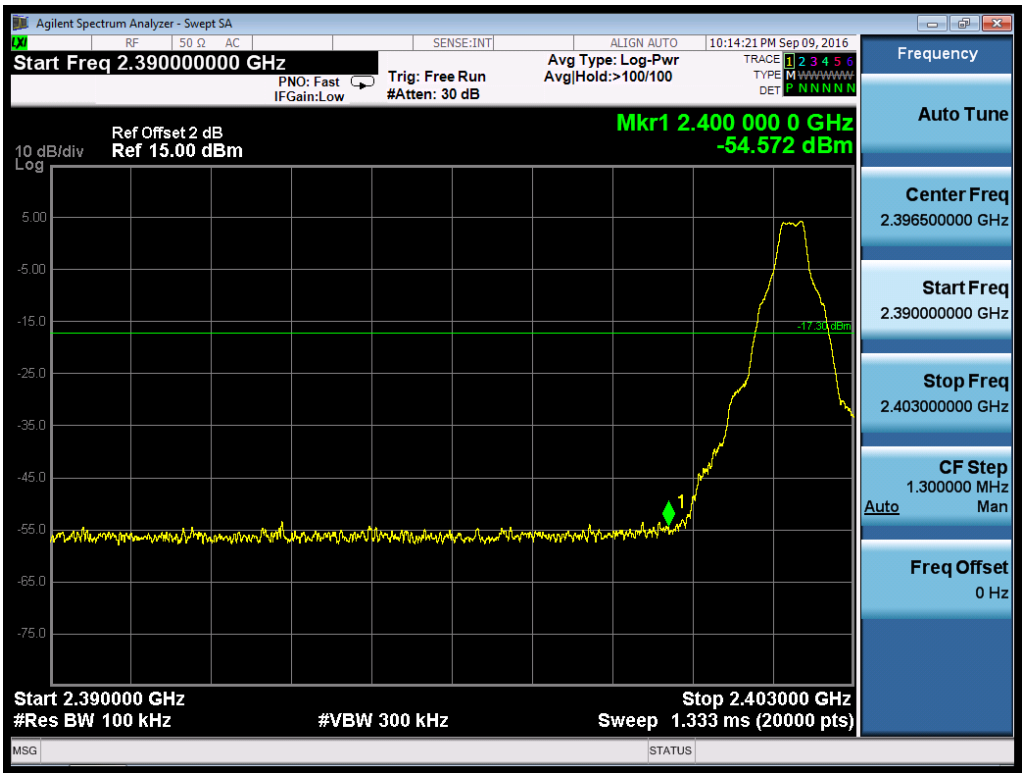


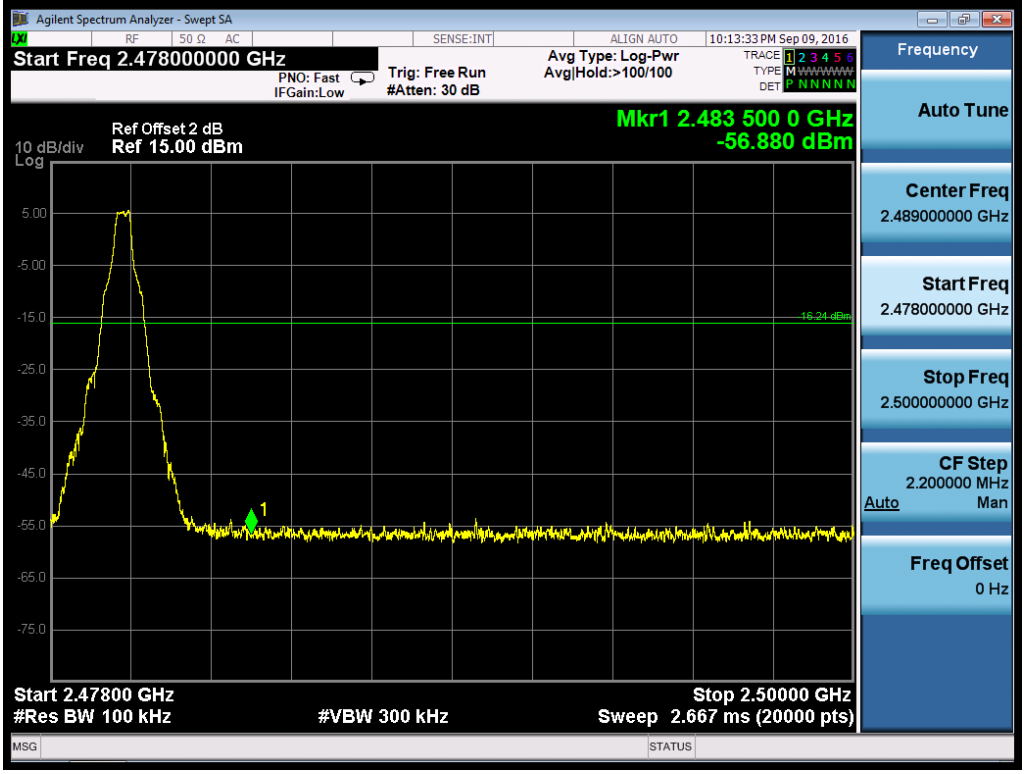
High Channel





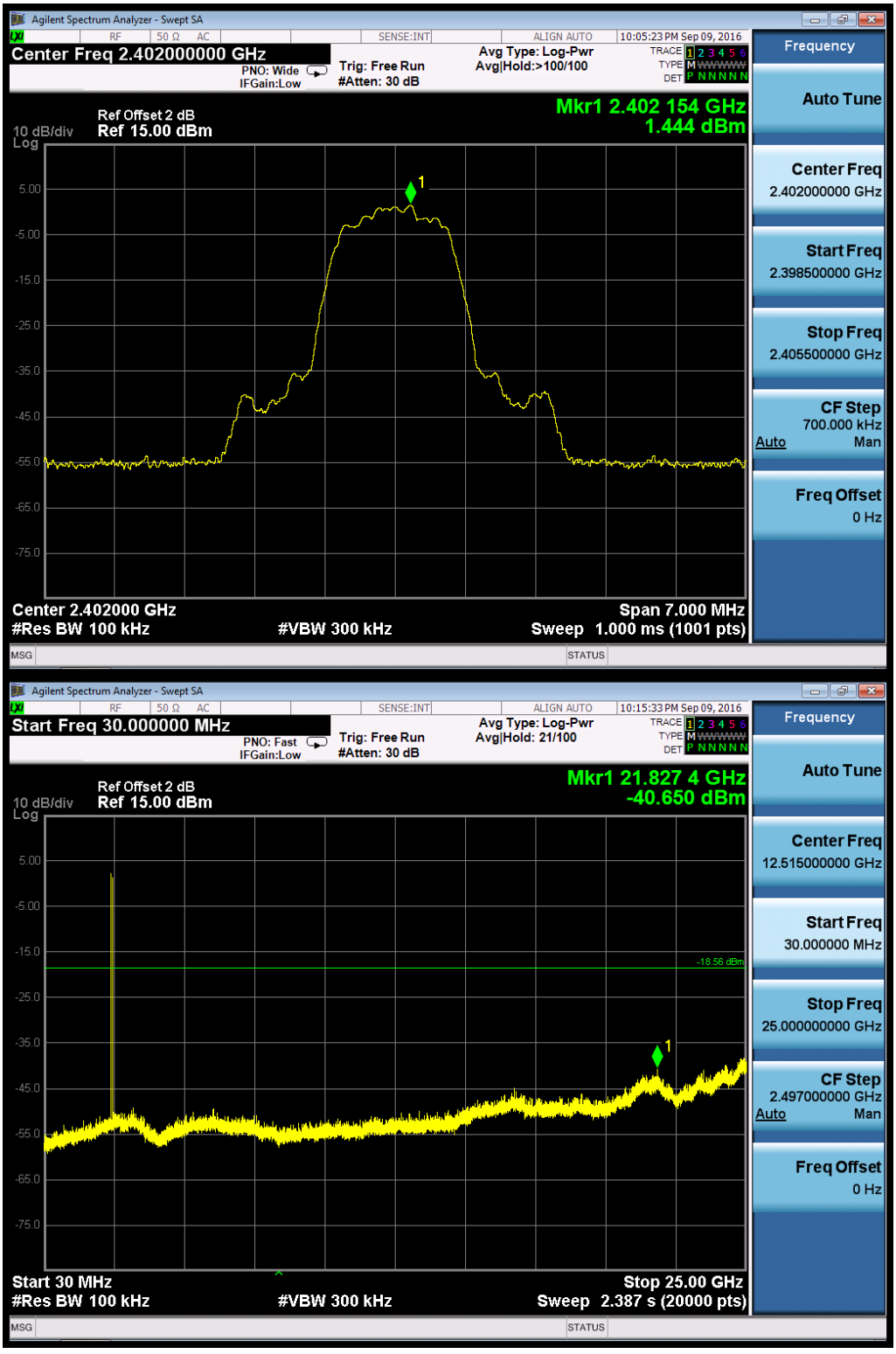
Band Edge


Agilent Spectrum Analyzer - Swept SA
Start Freq 2.390000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
10:14:21 PM Sep 09, 2016
Ref Offset 2 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.400 000 0 GHz
-54.572 dBm
-17.30 dBm
Start 2.390000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.403000 GHz
Sweep 1.333 ms (20000 pts)
Frequency
Auto Tune
Center Freq
2.396500000 GHz
Start Freq
2.390000000 GHz
Stop Freq
2.403000000 GHz
CF Step
1.300000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

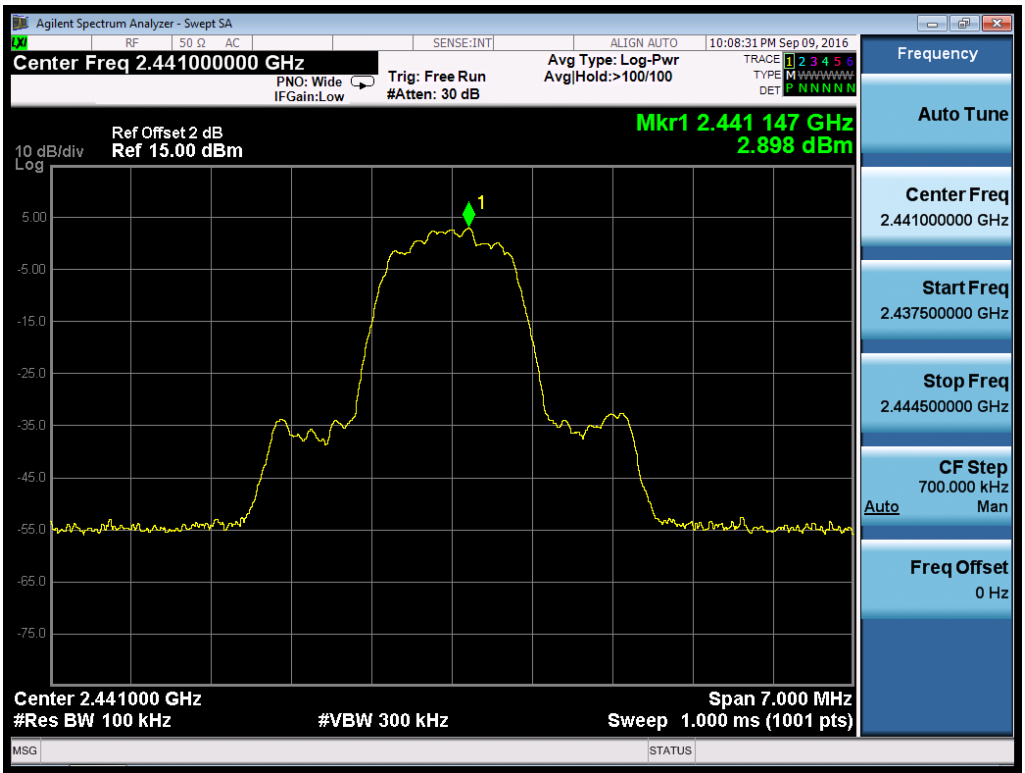

Agilent Spectrum Analyzer - Swept SA
Start Freq 2.478000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
10:13:33 PM Sep 09, 2016
Ref Offset 2 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.483 500 0 GHz
-56.880 dBm
-16.24 dBm
Start 2.47800 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.50000 GHz
Sweep 2.667 ms (20000 pts)
Frequency
Auto Tune
Center Freq
2.489000000 GHz
Start Freq
2.478000000 GHz
Stop Freq
2.500000000 GHz
CF Step
2.200000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

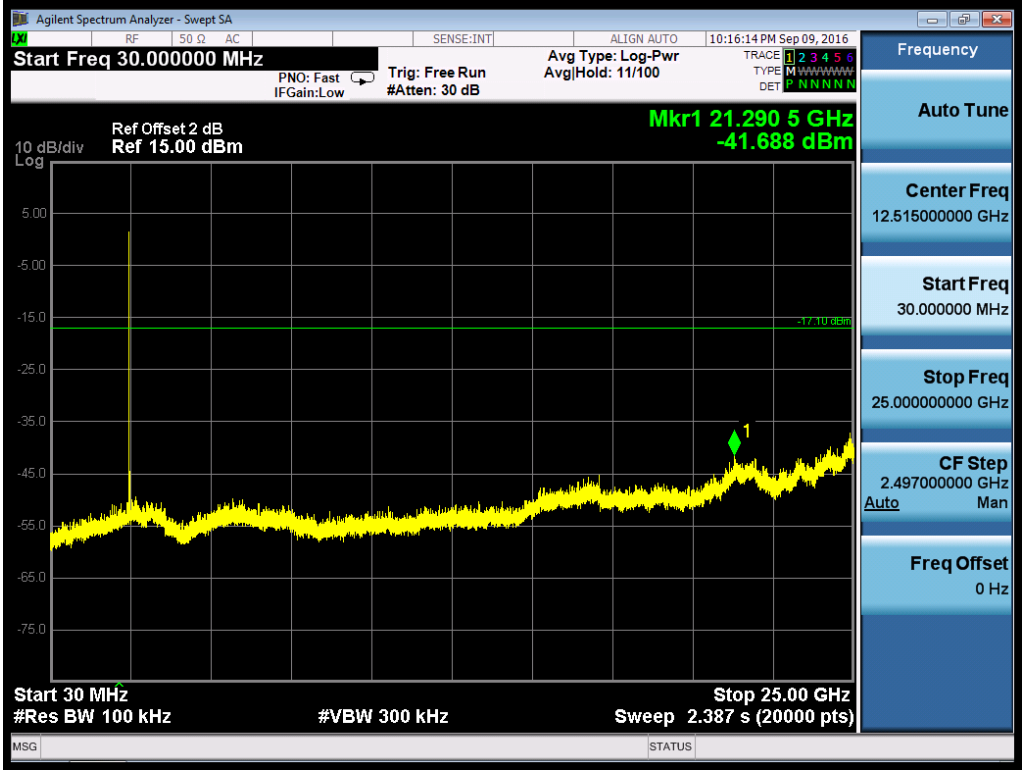
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of EDR mode

Low Channel

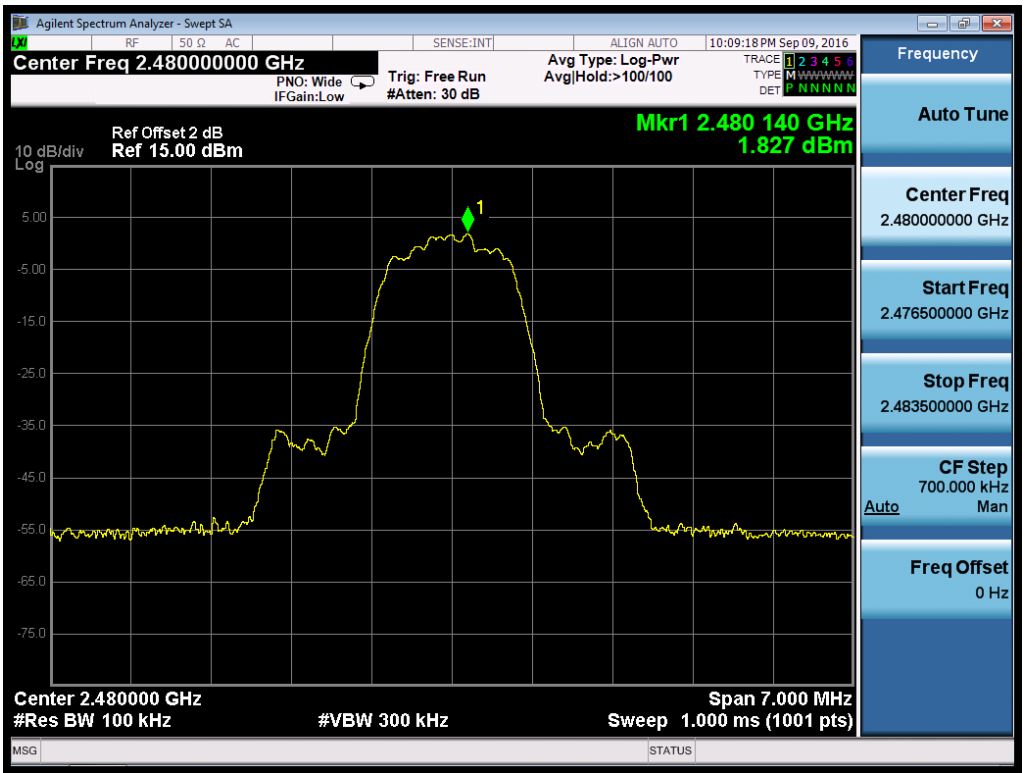


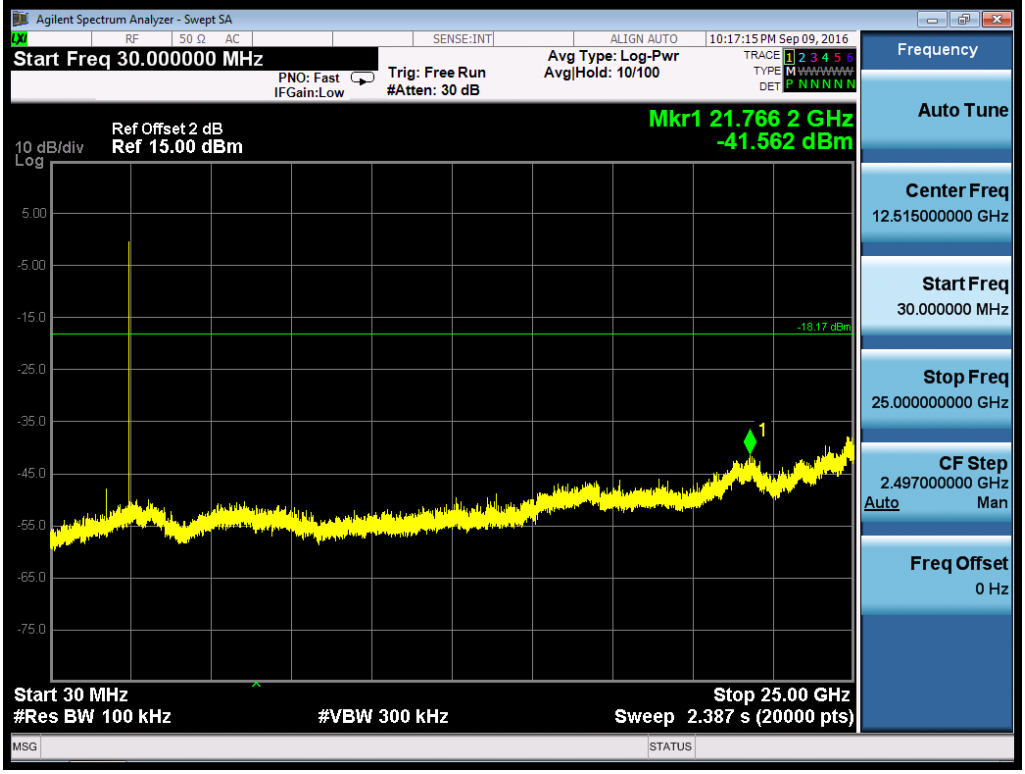
Middle Channel



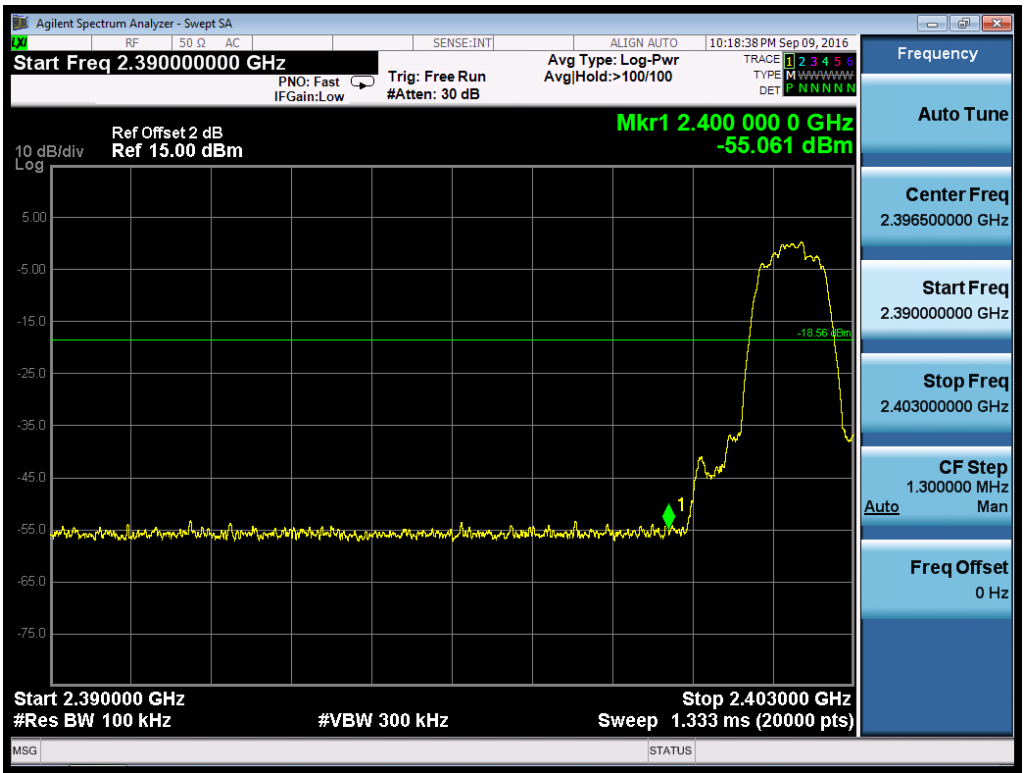


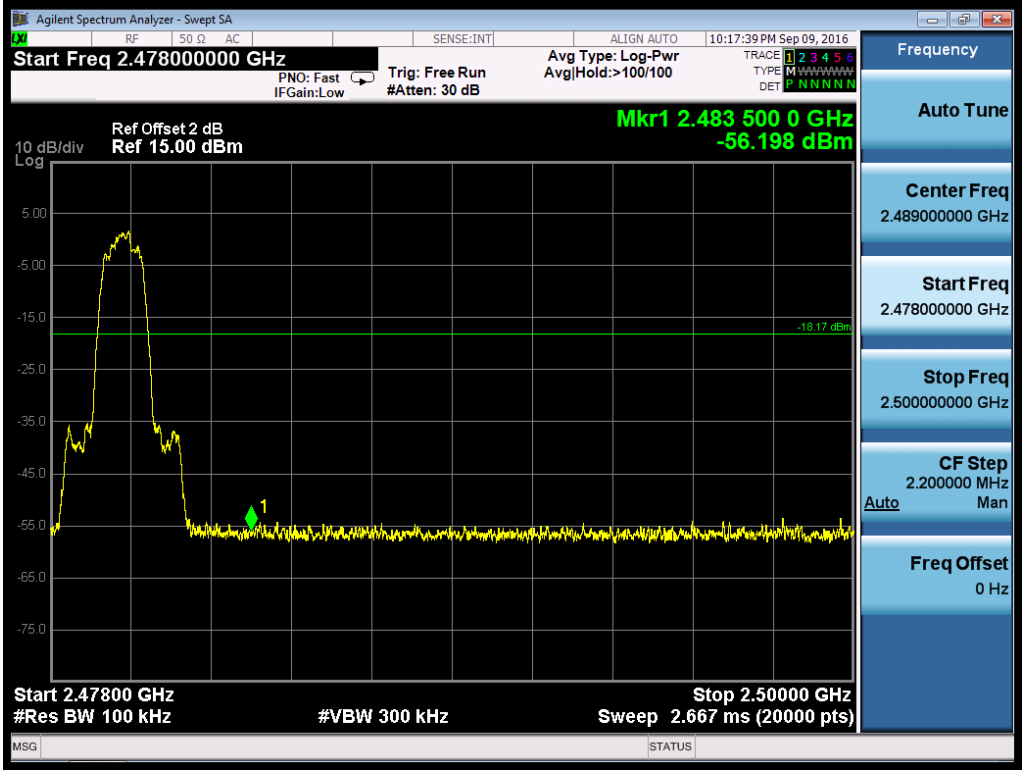
High Channel





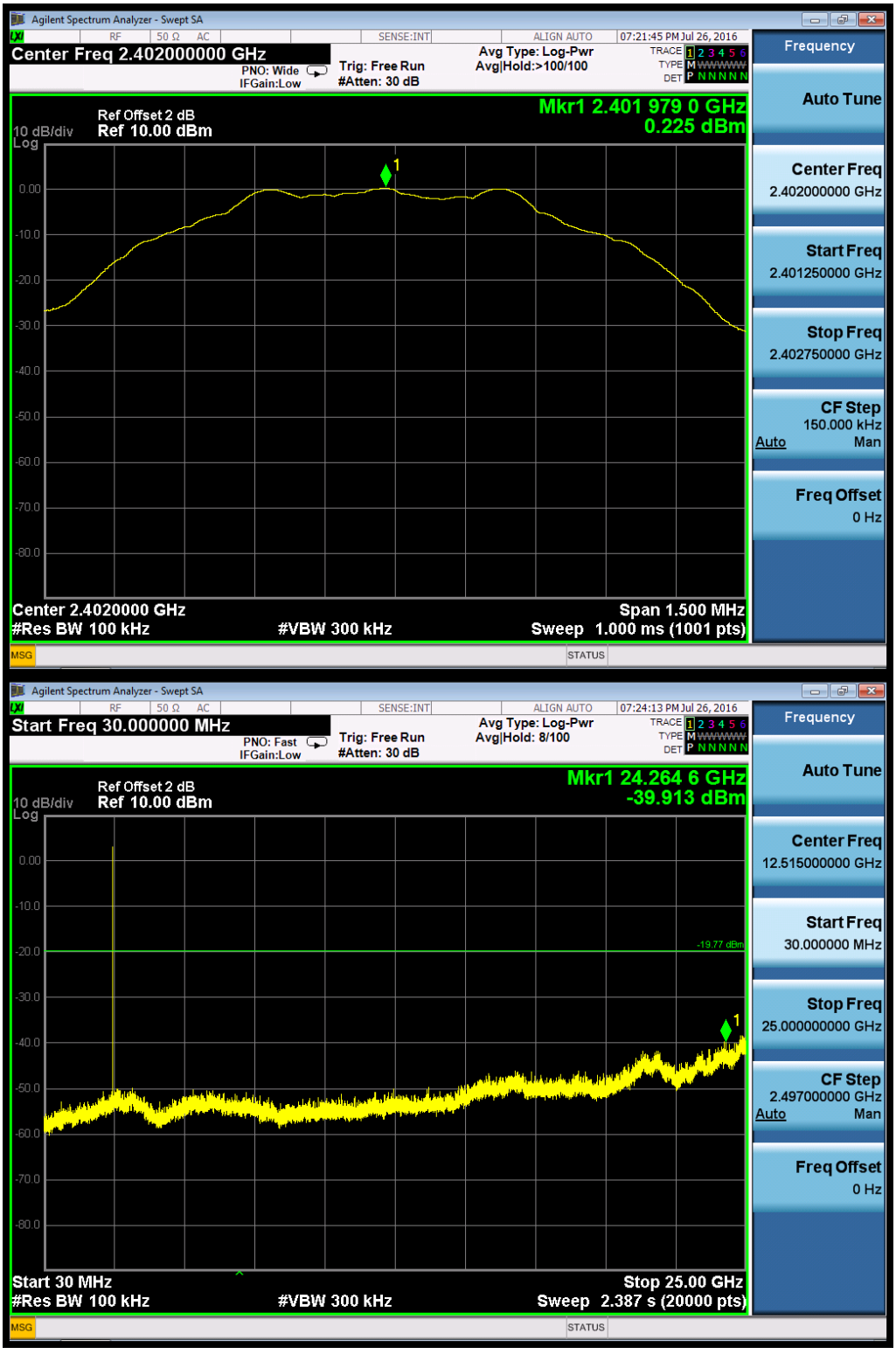
Band Edge


Agilent Spectrum Analyzer - Swept SA
Start Freq 2.390000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
10:18:38 PM Sep 09, 2016
Ref Offset 2 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.400 000 0 GHz
-55.061 dBm
-18.56 dBm
Start 2.390000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.403000 GHz
Sweep 1.333 ms (20000 pts)
Frequency
Auto Tune
Center Freq
2.396500000 GHz
Start Freq
2.390000000 GHz
Stop Freq
2.403000000 GHz
CF Step
1.300000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
Start Freq 2.478000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
10:17:39 PM Sep 09, 2016
Ref Offset 2 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr1 2.483 500 0 GHz
-56.198 dBm
-18.17 dBm
Start 2.47800 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.50000 GHz
Sweep 2.667 ms (20000 pts)
Frequency
Auto Tune
Center Freq
2.489000000 GHz
Start Freq
2.478000000 GHz
Stop Freq
2.500000000 GHz
CF Step
2.200000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of Low Energy mode

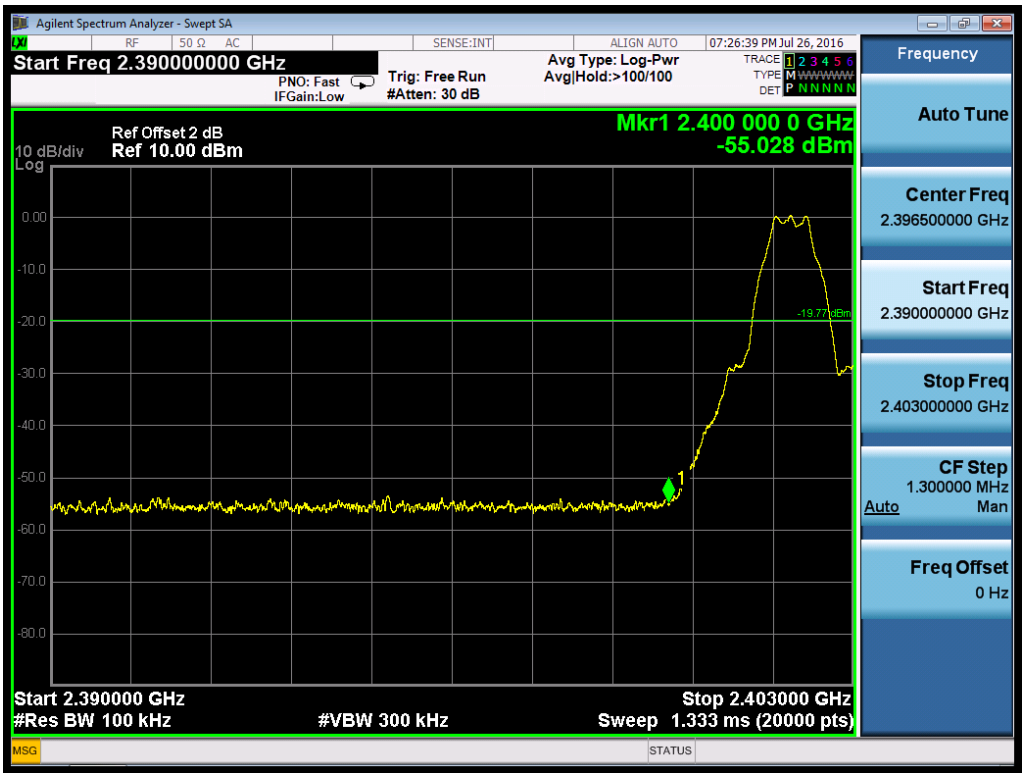
Low Channel

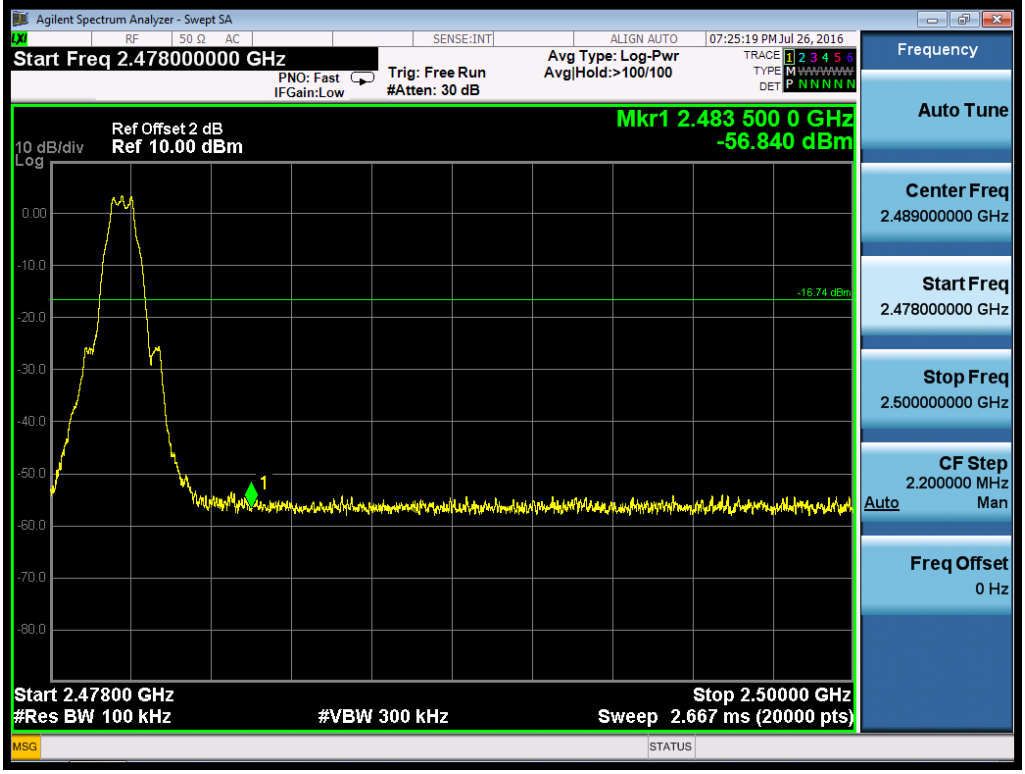


Middle Channel

High Channel

Band Edge


Agilent Spectrum Analyzer - Swept SA
Start Freq 2.390000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:26:39 PM Jul 26, 2016
Frequency
Ref Offset 2 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr1 2.400 000 0 GHz
-55.028 dBm
-19.77 dBm
Auto Tune
Center Freq
2.396500000 GHz
Start Freq
2.390000000 GHz
Stop Freq
2.403000000 GHz
CF Step
1.300000 MHz
Auto
Man
Freq Offset
0 Hz
Start 2.390000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.403000 GHz
Sweep 1.333 ms (20000 pts)
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
Start Freq 2.478000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:25:19 PM Jul 26, 2016
Frequency
Ref Offset 2 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr1 2.483 500 0 GHz
-56.840 dBm
-16.74 dBm
Auto Tune
Center Freq
2.489000000 GHz
Start Freq
2.478000000 GHz
Stop Freq
2.500000000 GHz
CF Step
2.200000 MHz
Auto
Man
Freq Offset
0 Hz
Start 2.47800 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.50000 GHz
Sweep 2.667 ms (20000 pts)
MSG
STATUS

5.1.6 Power spectral density

RESULT: **Pass**

Date of testing	:	2016-07-26
Test standard	:	FCC part 15.247(e) RSS-247 clause 5.2(2)
Basic standard	:	ANSI C63.10: 2013 Clause 10 of KDB 558074 v03r01
Limit	:	8dBm/3kHz
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.2.a
Ambient temperature	:	25℃
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 13: Test result of power spectral density

Mode	Channel (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Conclusion
Bluetooth LE mode	2402	-13.173	8	Pass
	2440	-10.760	8	Pass
	2480	-10.261	8	Pass

5.1.7 Spurious Emission

RESULT: **Pass**

Date of testing	:	2016-08-20 to 2016-09-06
Test standard	:	FCC part 15.247(d) RSS-Gen
Basic standard	:	ANSI C63.10: 2013 Clause 11 of KDB 558074 v03r01
Limits	:	FCC part 15.209(a)
Kind of test site	:	3m Semi-Anechoic Chamber & Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a, A.2.a
Ambient temperature	:	24℃
Relative humidity	:	53%
Atmospheric pressure	:	101kPa

The frequency range of testing is 30MHz to 26.5GHz, and no any emissions were found from 18GHz to 26.5GHz, hence for the radiated emission from 18GHz to 26.5GHz, only the worst case were recorded.

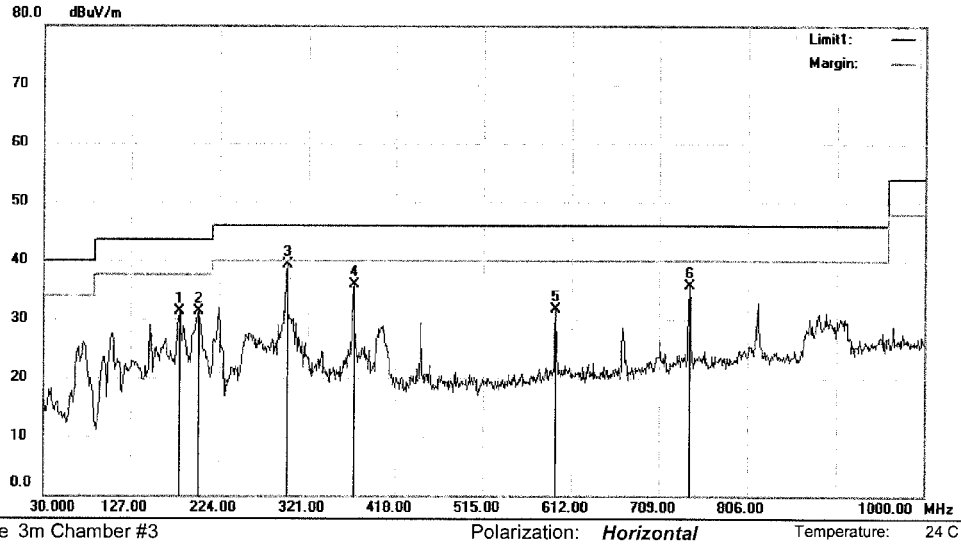
For details refer to following test plot.

Shenzhen EMTEK Co., Ltd.
Bldg.69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

EMTEK
Access to the World

Radiated Emission Measurement

File :TUV Data :#1345 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode: GFSK 2402
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		180.3500	48.36	-17.15	31.21	43.50	-12.29	QP			
2		200.7200	46.78	-15.51	31.27	43.50	-12.23	QP			
3	*	297.7200	50.96	-11.69	39.27	46.00	-6.73	QP			
4		371.4400	46.33	-10.36	35.97	46.00	-10.03	QP			
5		594.5400	37.75	-5.95	31.80	46.00	-14.20	QP			
6		742.9500	39.39	-3.63	35.76	46.00	-10.24	QP			

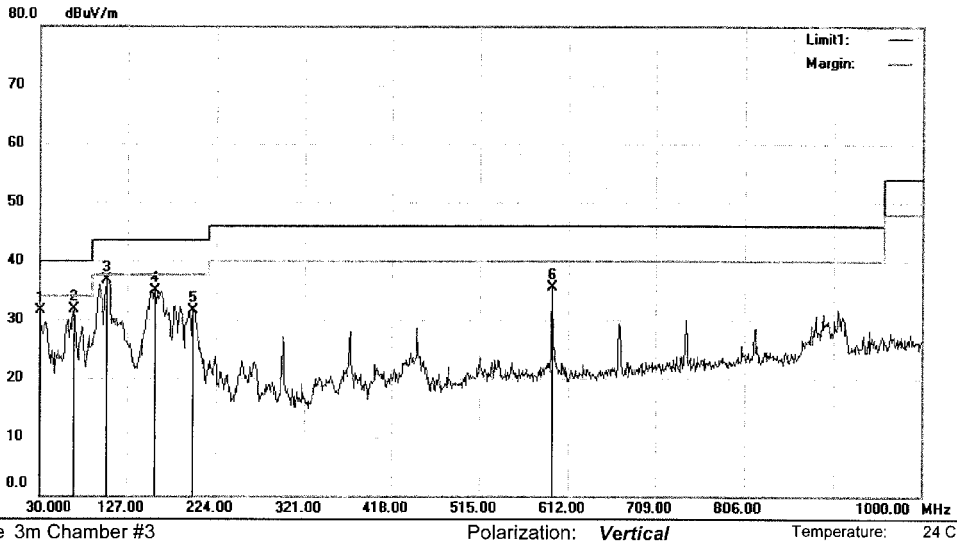
*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co.,Ltd.
Bldg.69,Majialong Industry Zone,Nanshan District,Shenzhen,Guangdong,518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

EMTEK
Access to the World

Radiated Emission Measurement

File :TUV Data :#1346 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:GFSK 2402
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.0000	48.89	-17.48	31.41	40.00	-8.59	QP			
2		67.8300	48.97	-17.29	31.68	40.00	-8.32	QP			
3	*	104.6900	52.10	-15.32	36.78	43.50	-6.72	QP			
4		157.0700	53.42	-18.52	34.90	43.50	-8.60	QP			
5		198.7800	47.23	-15.70	31.53	43.50	-11.97	QP			
6		594.5400	41.52	-5.95	35.57	46.00	-10.43	QP			

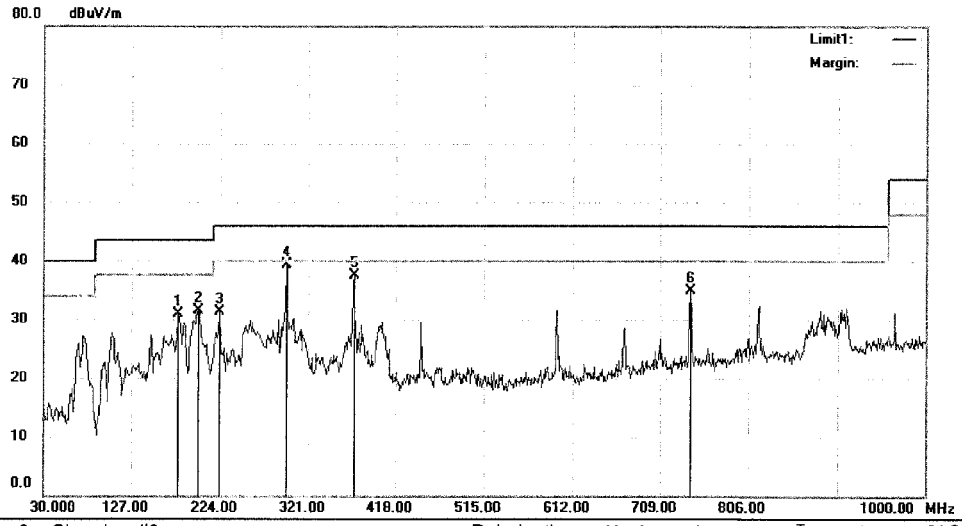
*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

EMTEK
Access to the World

Radiated Emission Measurement

File :TUV Data :#1347 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:GFSK 2441
Note:

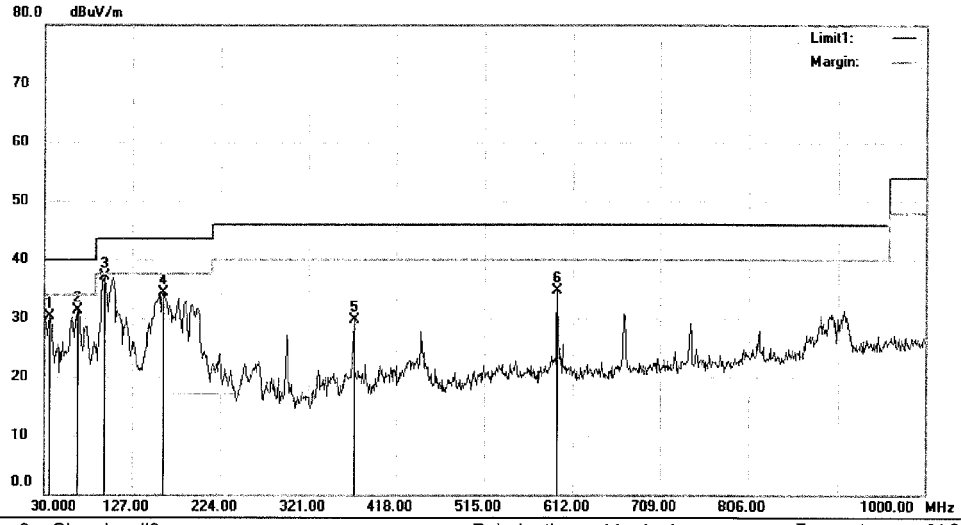
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		178.4100	48.10	-17.17	30.93	43.50	-12.57	QP			
2		199.7500	47.13	-15.57	31.56	43.50	-11.94	QP			
3		223.0300	45.74	-14.41	31.33	46.00	-14.67	QP			
4	*	296.7500	51.06	-11.73	39.33	46.00	-6.67	QP			
5		371.4400	47.96	-10.36	37.60	46.00	-8.40	QP			
6		742.9500	38.61	-3.63	34.98	46.00	-11.02	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg.69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1348 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:GFSK 2441
Note:

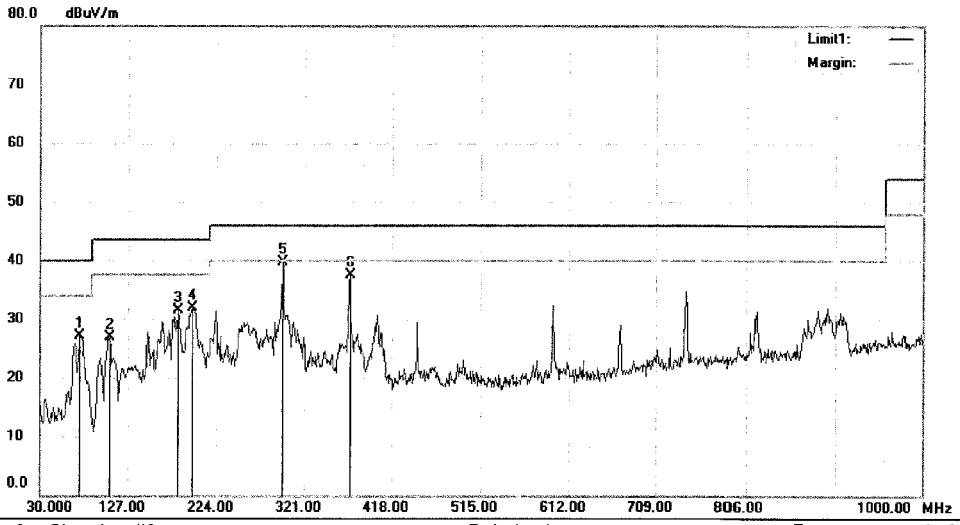
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		35.8200	47.01	-16.79	30.22	40.00	-9.78	QP			
2		66.8600	48.36	-17.01	31.35	40.00	-8.65	QP			
3	*	95.9600	53.17	-16.02	37.15	43.50	-6.35	QP			
4		160.9500	52.68	-18.28	34.40	43.50	-9.10	QP			
5		371.4400	39.97	-10.36	29.61	46.00	-16.39	QP			
6		594.5400	40.75	-5.95	34.80	46.00	-11.20	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1349 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:GFSK 2480
Note:

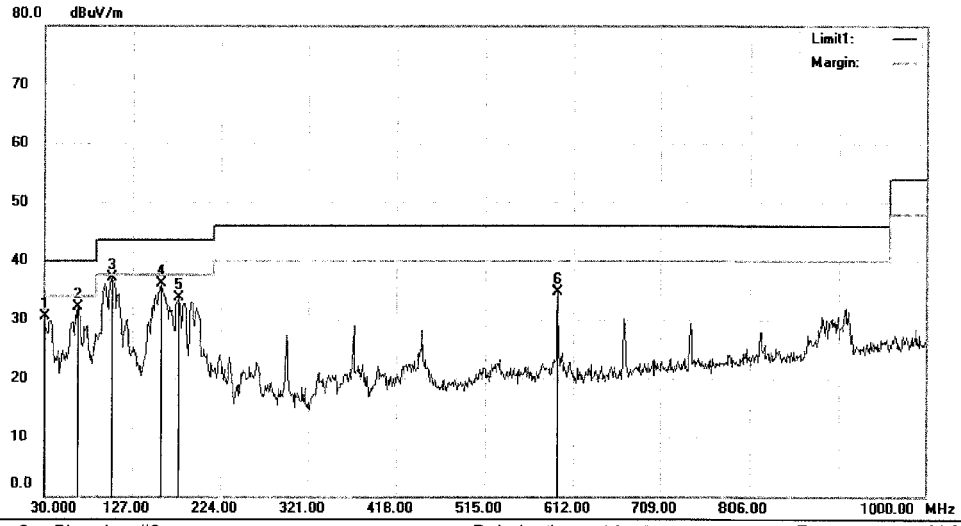
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		73.6500	45.69	-18.62	27.07	40.00	-12.93	QP			
2		106.6300	42.29	-15.34	26.95	43.50	-16.55	QP			
3		182.2900	48.58	-17.08	31.50	43.50	-12.00	QP			
4		197.8100	47.78	-15.81	31.97	43.50	-11.53	QP			
5	*	296.7500	51.50	-11.73	39.77	46.00	-6.23	QP			
6		371.4400	47.81	-10.36	37.45	46.00	-8.55	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1350 Date:



Site 3m Chamber #3 Polarization: *Vertical* Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:GFSK 2480
Note:

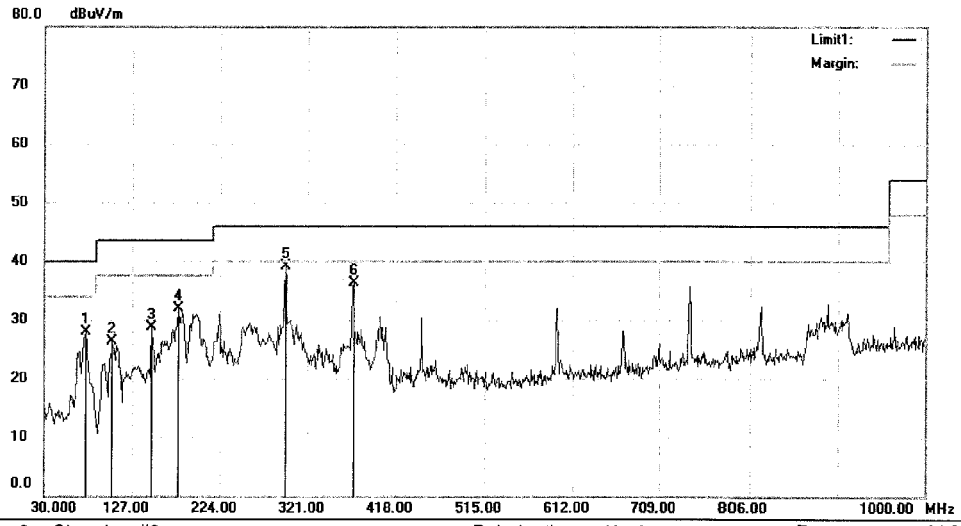
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.0000	48.07	-17.48	30.59	40.00	-9.41	QP			
2		66.8600	49.04	-17.01	32.03	40.00	-7.97	QP			
3	*	103.7200	52.33	-15.30	37.03	43.50	-6.47	QP			
4		158.0400	54.53	-18.47	36.06	43.50	-7.44	QP			
5		177.4400	50.90	-17.18	33.72	43.50	-9.78	QP			
6		594.5400	40.73	-5.95	34.78	46.00	-11.22	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1351 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode: 8DPSK 2402
Note:

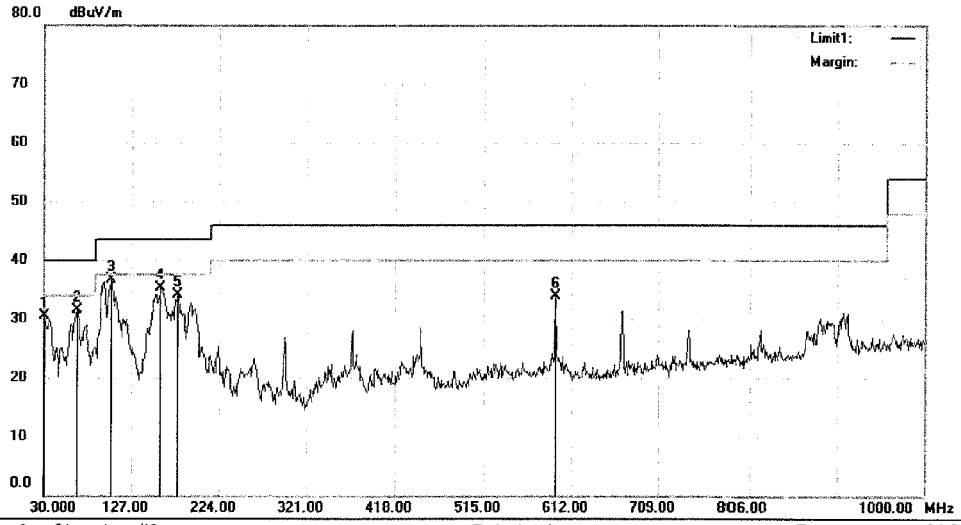
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		75.5900	46.92	-19.05	27.87	40.00	-12.13	QP			
2		104.6900	41.54	-15.32	26.22	43.50	-17.28	QP			
3		148.3400	47.57	-18.88	28.69	43.50	-14.81	QP			
4		178.4100	49.13	-17.17	31.96	43.50	-11.54	QP			
5	*	296.7500	50.75	-11.73	39.02	46.00	-6.98	QP			
6		371.4400	46.68	-10.36	36.32	46.00	-9.68	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1352 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:8DPSK 2402
Note:

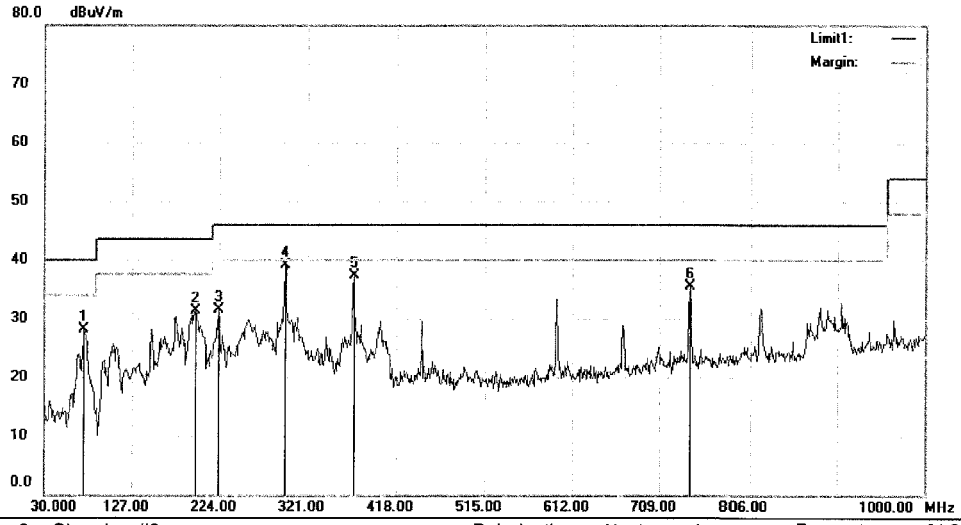
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.0000	47.97	-17.48	30.49	40.00	-9.51	QP			
2		66.8600	48.55	-17.01	31.54	40.00	-8.46	QP			
3	*	104.6900	52.09	-15.32	36.77	43.50	-6.73	QP			
4		159.0100	53.81	-18.43	35.38	43.50	-8.12	QP			
5		178.4100	51.35	-17.17	34.18	43.50	-9.32	QP			
6		594.5400	39.79	-5.95	33.84	46.00	-12.16	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1353 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:8DPSK 2441
Note:

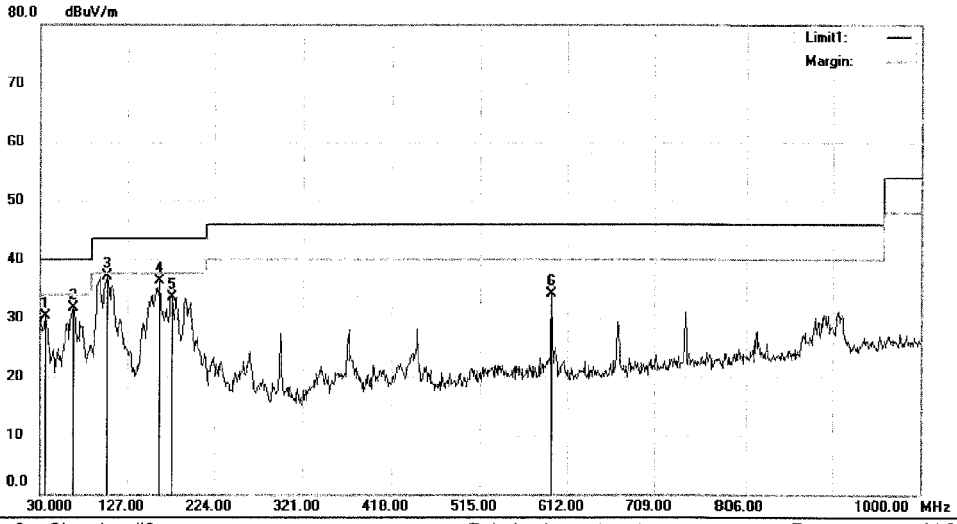
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		73.6500	46.73	-18.62	28.11	40.00	-11.89	QP			
2		196.8400	47.19	-15.94	31.25	43.50	-12.25	QP			
3		223.0300	45.82	-14.41	31.41	46.00	-14.59	QP			
4	*	296.7500	50.79	-11.73	39.06	46.00	-6.94	QP			
5		371.4400	47.74	-10.36	37.38	46.00	-8.62	QP			
6		742.9500	39.22	-3.63	35.59	46.00	-10.41	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg.69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1354 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:8DPSK 2441
Note:

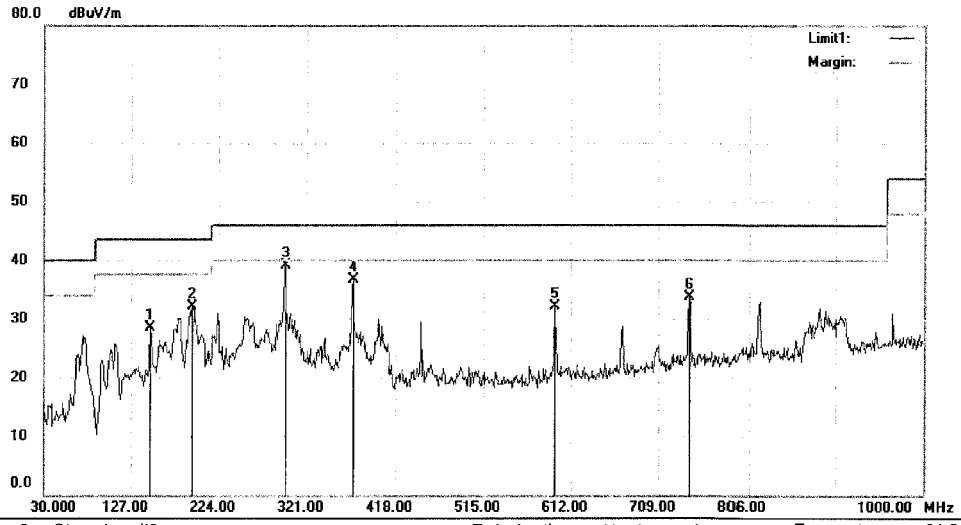
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		35.8200	47.09	-16.79	30.30	40.00	-9.70	QP			
2		66.8600	48.77	-17.01	31.76	40.00	-8.24	QP			
3	*	103.7200	52.47	-15.30	37.17	43.50	-6.33	QP			
4		162.8900	54.28	-18.05	36.23	43.50	-7.27	QP			
5		176.4700	50.74	-17.18	33.56	43.50	-9.94	QP			
6		594.5400	40.06	-5.95	34.11	46.00	-11.89	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1355 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:8DPSK 2480
Note:

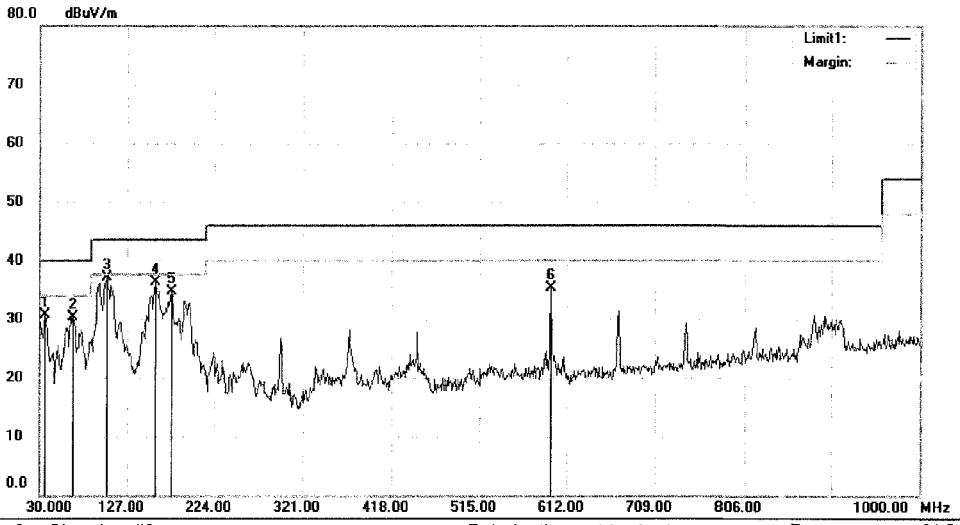
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		148.3400	47.37	-18.88	28.49	43.50	-15.01	QP			
2		194.9000	48.32	-16.19	32.13	43.50	-11.37	QP			
3	*	297.7200	50.77	-11.69	39.08	46.00	-6.92	QP			
4		371.4400	46.99	-10.36	36.63	46.00	-9.37	QP			
5		594.5400	37.96	-5.95	32.01	46.00	-13.99	QP			
6		742.9500	37.42	-3.63	33.79	46.00	-12.21	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1356 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:8DPSK 2480
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		35.8200	47.45	-16.79	30.66	40.00	-9.34	QP			
2		66.8600	47.36	-17.01	30.35	40.00	-9.65	QP			
3	*	104.6900	52.50	-15.32	37.18	43.50	-6.32	QP			
4		158.0400	54.68	-18.47	36.21	43.50	-7.29	QP			
5		176.4700	51.84	-17.18	34.66	43.50	-8.84	QP			
6		594.5400	41.18	-5.95	35.23	46.00	-10.77	QP			

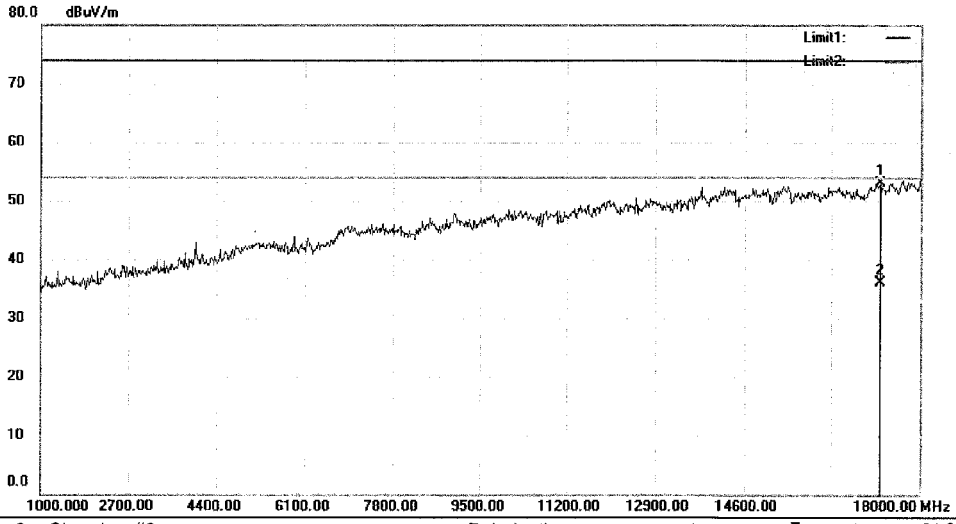
*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

EMTEK
Access to the World

Radiated Emission Measurement

File :TUV Data :#2097 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:GFSK 2402
Note:

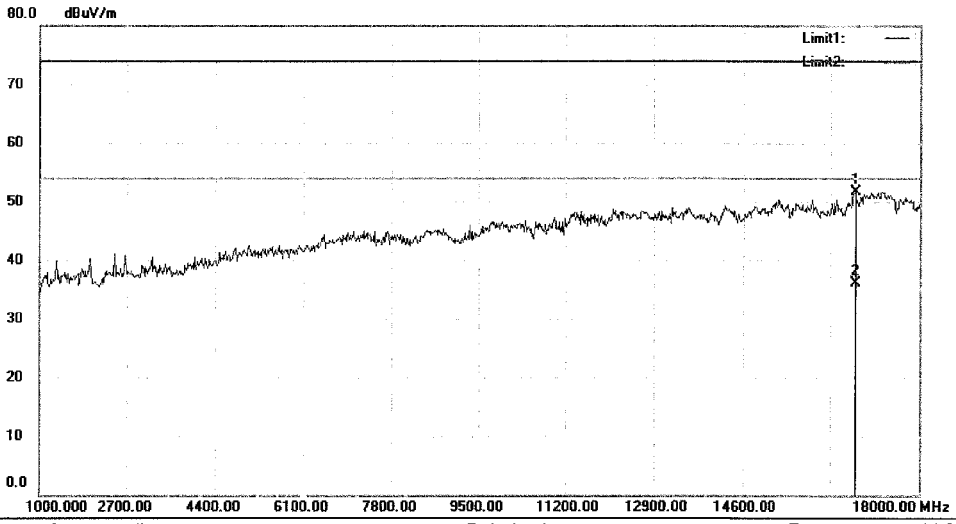
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		17235.00	47.95	5.16	53.11	74.00	-20.89	peak			
2	*	17235.00	30.94	5.16	36.10	54.00	-17.90	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#2098 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:GFSK 2402
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		16776.00	50.66	1.14	51.80	74.00	-22.20	peak		0	
2	*	16776.00	35.06	1.14	36.20	54.00	-17.80	AVG		0	

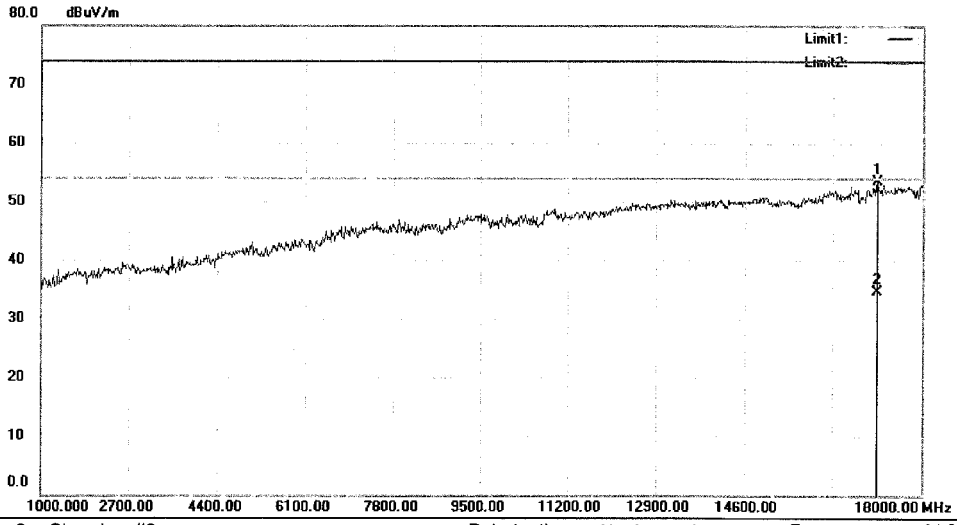
*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

EMTEK
Access to the World

Radiated Emission Measurement

File :TUV Data :#2100 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:GFSK 2441
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		17150.00	49.45	4.04	53.49	74.00	-20.51	peak			
2	*	17150.00	30.76	4.04	34.80	54.00	-19.20	AVG			

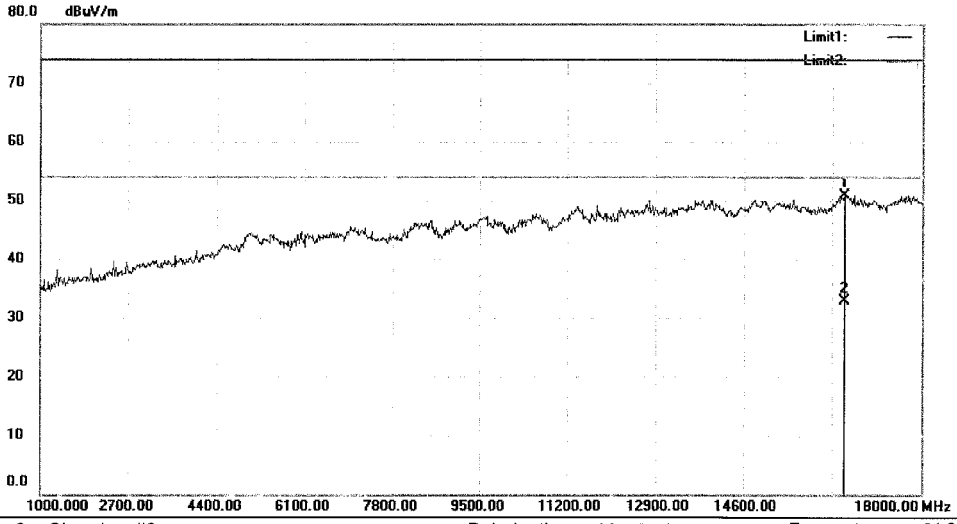
*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

EMTEK
Access to the World

Radiated Emission Measurement

File :TUV Data :#2099 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:GFSK 2441
Note:

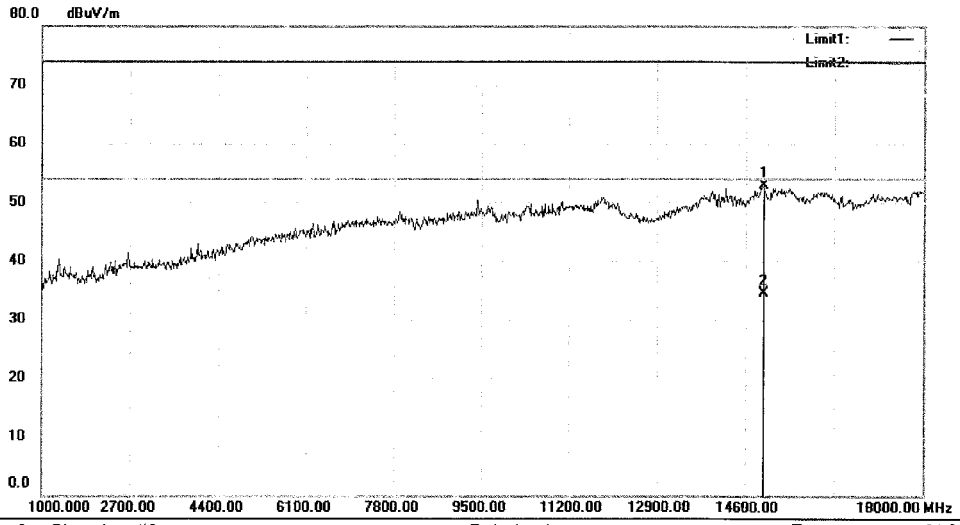
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		16538.00	50.84	0.15	50.99	74.00	-23.01	peak			
2	*	16538.00	32.75	0.15	32.90	54.00	-21.10	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg.69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#2101 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:GFSK 2480
Note:

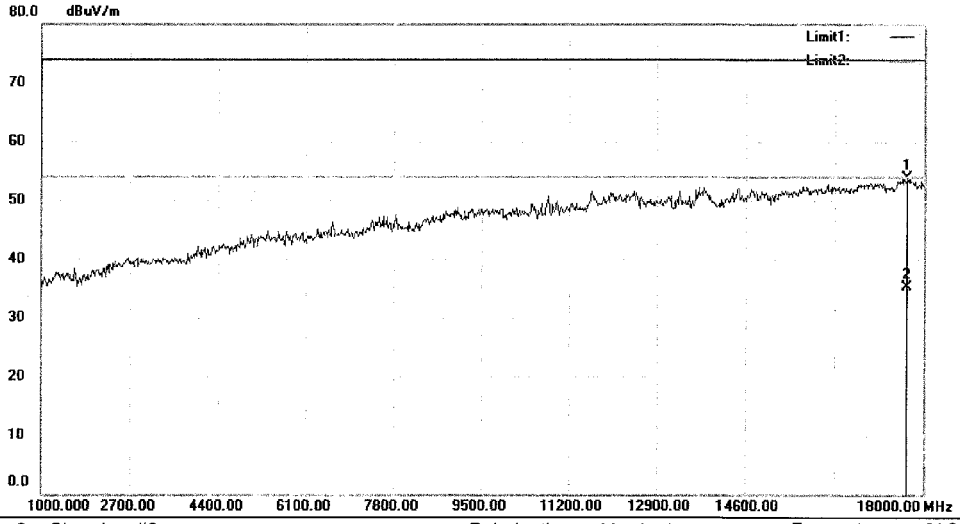
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		14940.00	51.08	1.82	52.90	74.00	-21.10	peak			
2	*	14940.00	32.78	1.82	34.60	54.00	-19.40	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg.69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#2102 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode: GFSK 2480
Note:

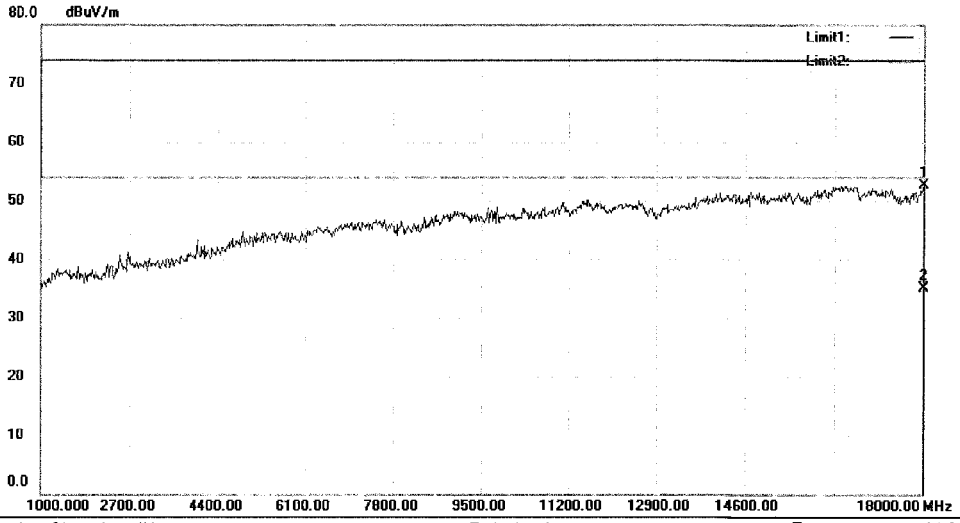
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		17677.00	42.91	10.98	53.89	74.00	-20.11	peak			
2	*	17677.00	24.42	10.98	35.40	54.00	-18.60	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#2103 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:8DPSK 2402
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		18000.00	37.57	15.22	52.79	74.00	-21.21	peak			
2	*	18000.00	19.88	15.22	35.10	54.00	-18.90	AVG			

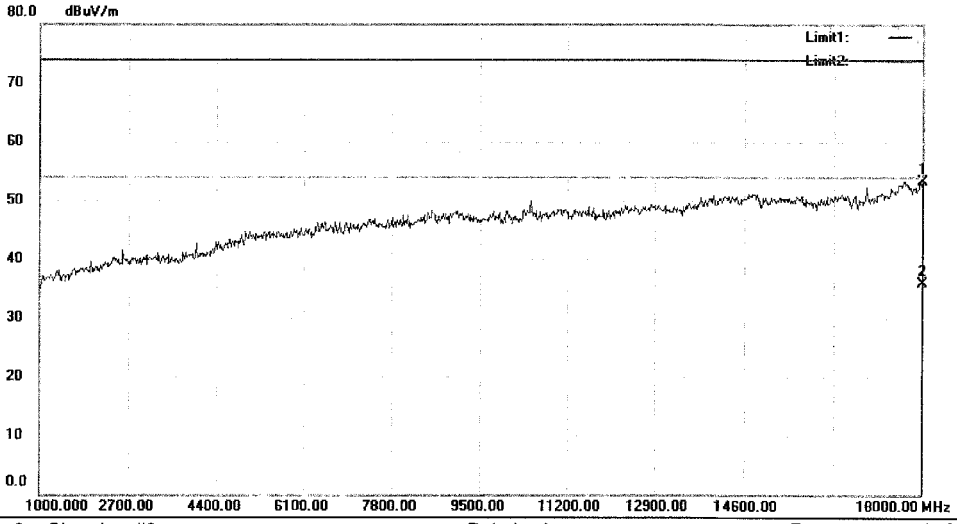
*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg.69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

EMTEK
Access to the World

Radiated Emission Measurement

File :TUV Data :#2104 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:8DPSK 2402
Note:

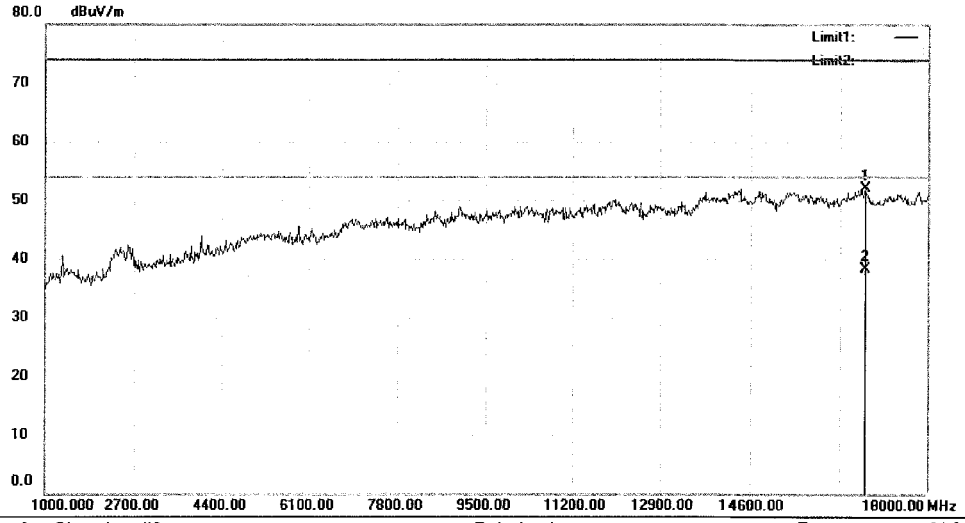
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		18000.00	38.15	15.22	53.37	74.00	-20.63	peak			
2	*	18000.00	20.68	15.22	35.90	54.00	-18.10	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#2105 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:8DPSK 2441
Note:

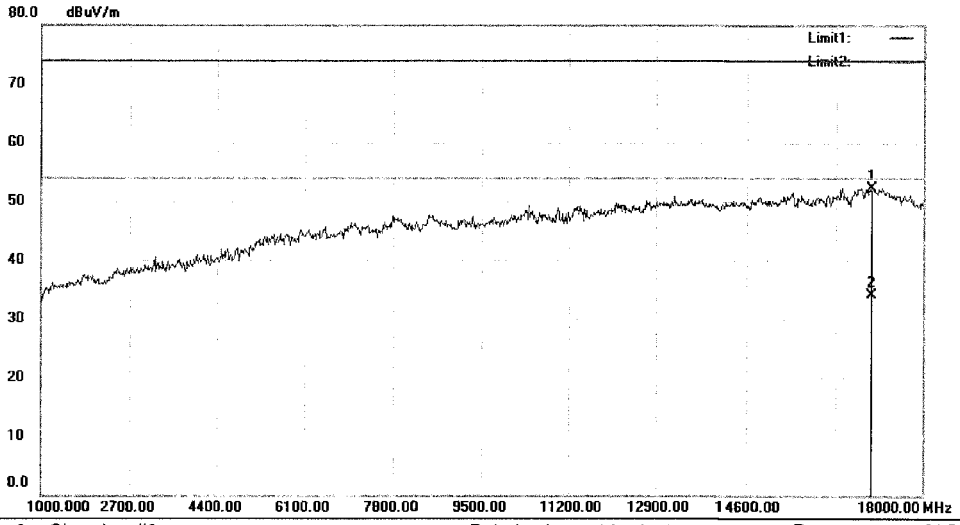
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		16776.00	51.00	1.14	52.14	74.00	-21.86	peak		0	
2	*	16776.00	37.10	1.14	38.24	54.00	-15.76	AVG		0	

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#2106 Date:



Site 3m Chamber #3 Polarization: *Vertical* Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:8DPSK 2441
Note:

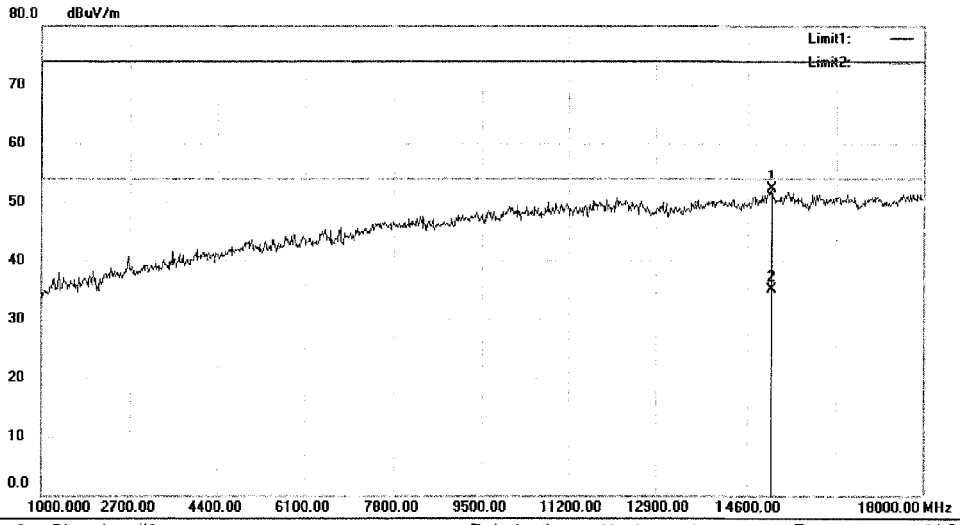
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		16997.00	50.25	2.06	52.31	74.00	-21.69	peak			
2	*	16997.00	32.14	2.06	34.20	54.00	-19.80	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg.69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#2108 Date:



Site 3m Chamber #3
Limit: (RE)FCC PART 15 C
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:8DPSK 2480
Note:

Polarization: ***Horizontal***
Power: AC 120V/60Hz

Temperature: 24 C
Humidity: 53 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		15059.00	50.73	1.55	52.28	74.00	-21.72	peak			
2	*	15059.00	33.55	1.55	35.10	54.00	-18.90	AVG			

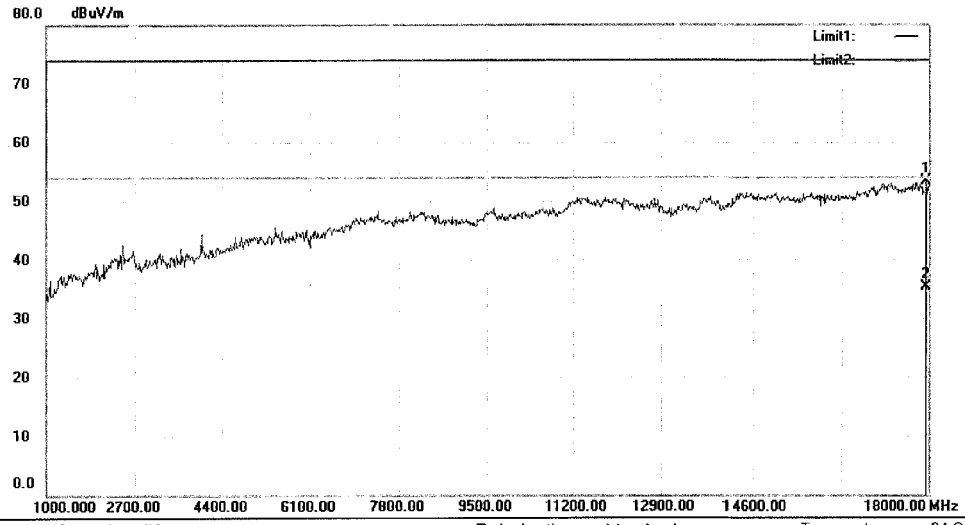
*:Maximum data x:Over limit !:over margin

Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#2107 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:8DPSK 2480
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		17949.00	38.73	14.55	53.28	74.00	-20.72	peak			
2	*	17949.00	20.85	14.55	35.40	54.00	-18.60	AVG			

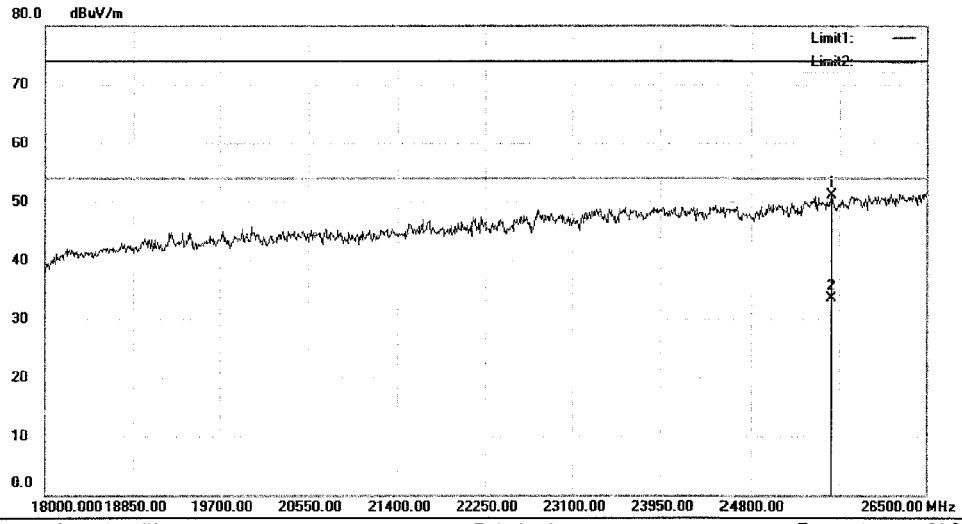
*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

EMTEK
Access to the World

Radiated Emission Measurement

File :TUV Data :#1713 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode: GFSK 2402
Note:

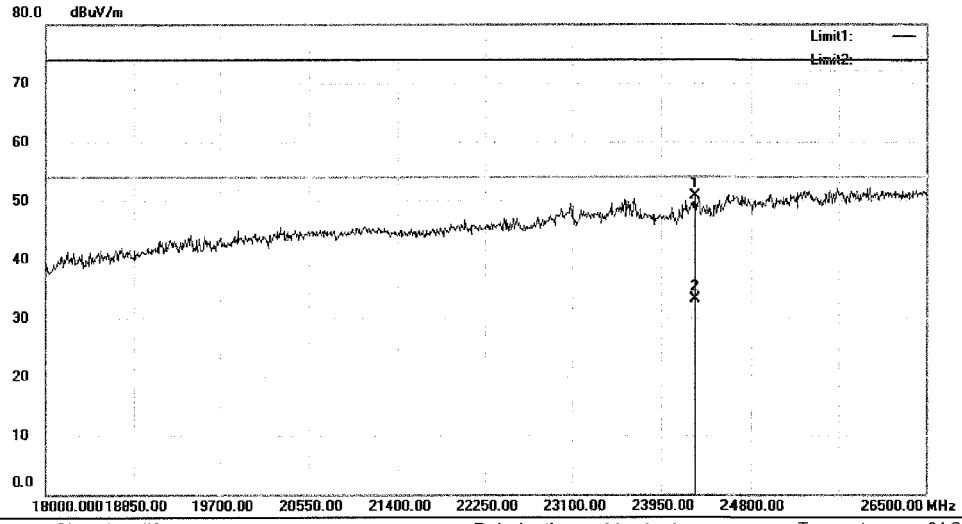
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		25573.50	87.44	-36.31	51.13	74.00	-22.87	peak		0	
2	*	25573.50	69.91	-36.31	33.60	54.00	-20.40	AVG		0	

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1714 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode: GFSK 2402
Note:

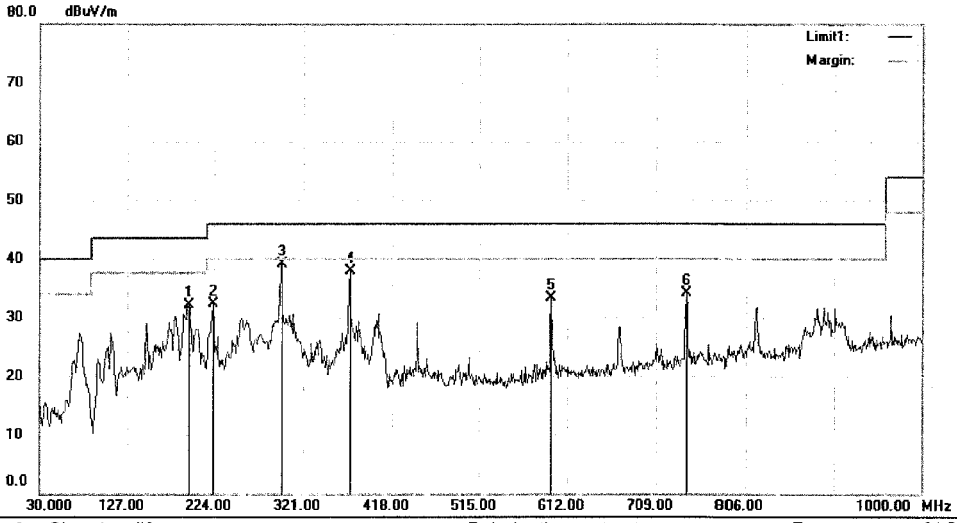
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		24281.50	87.82	-37.10	50.72	74.00	-23.28	peak		0	
2	*	24281.50	70.20	-37.10	33.10	54.00	-20.90	AVG		0	

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co.,Ltd.
Bldg.69,Majialong Industry Zone,Nanshan District,Shenzhen,Guangdong,518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1357 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2402
Note:

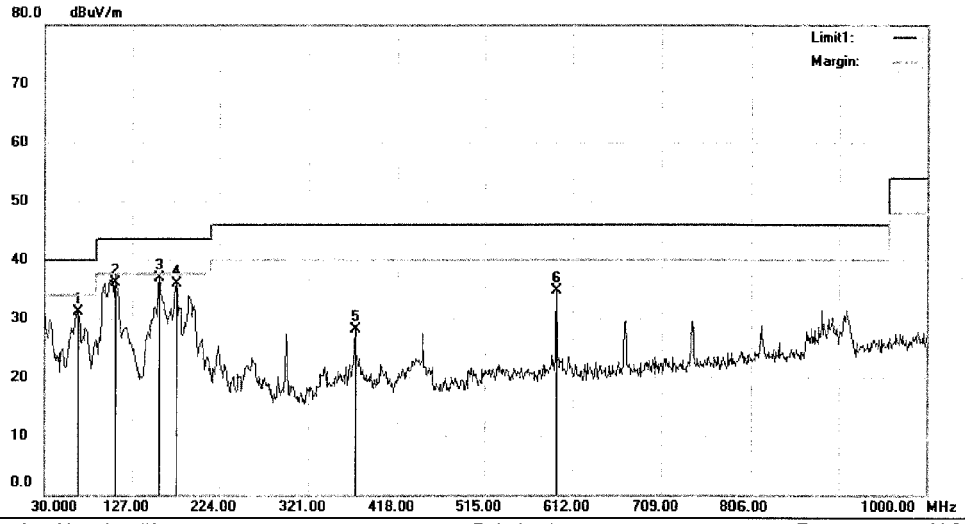
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		195.8700	48.13	-16.06	32.07	43.50	-11.43	QP			
2		223.0300	46.72	-14.41	32.31	46.00	-13.69	QP			
3	*	297.7200	50.80	-11.69	39.11	46.00	-6.89	QP			
4		371.4400	48.19	-10.36	37.83	46.00	-8.17	QP			
5		594.5400	39.35	-5.95	33.40	46.00	-12.60	QP			
6		742.9500	37.78	-3.63	34.15	46.00	-11.85	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co.,Ltd.
Bldg.69,Majialong Industry Zone,Nanshan District,Shenzhen,Guangdong,518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1358 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2402
Note:

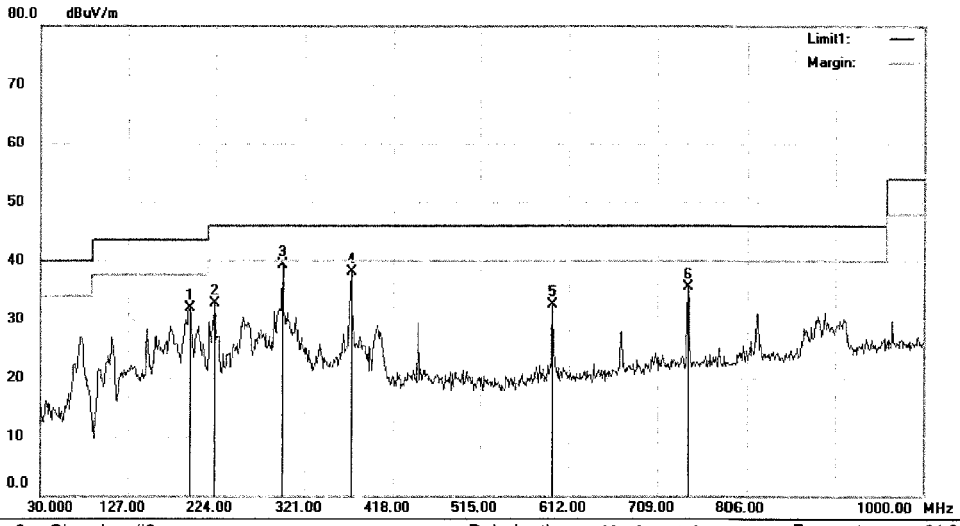
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		66.8600	48.10	-17.01	31.09	40.00	-8.91	QP			
2		108.5700	51.57	-15.37	36.20	43.50	-7.30	QP			
3	*	157.0700	55.47	-18.52	36.95	43.50	-6.55	QP			
4		176.4700	53.11	-17.18	35.93	43.50	-7.57	QP			
5		371.4400	38.50	-10.36	28.14	46.00	-17.86	QP			
6		594.5400	40.74	-5.95	34.79	46.00	-11.21	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1359 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode: BLE 2440
Note:

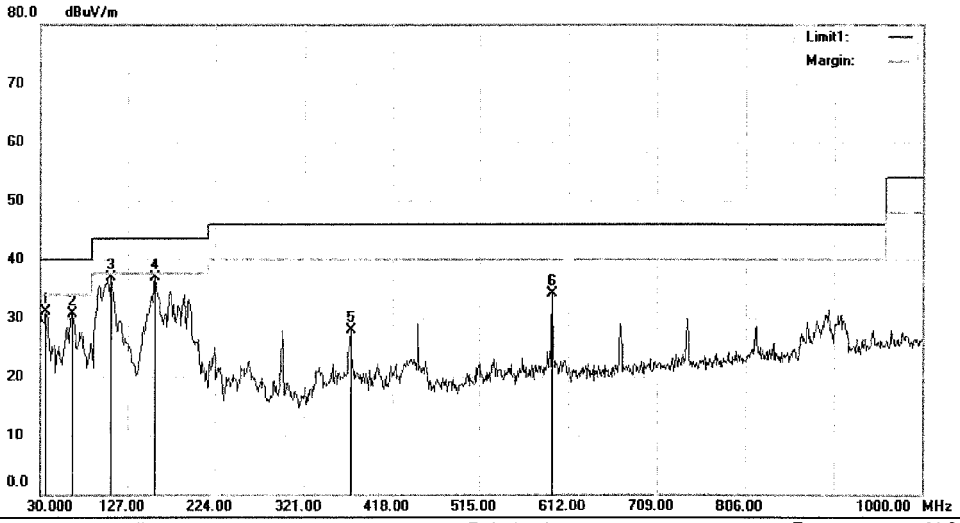
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		195.8700	47.98	-16.06	31.92	43.50	-11.58	QP			
2		223.0300	47.04	-14.41	32.63	46.00	-13.37	QP			
3	*	296.7500	50.96	-11.73	39.23	46.00	-6.77	QP			
4		371.4400	48.48	-10.36	38.12	46.00	-7.88	QP			
5		594.5400	38.38	-5.95	32.43	46.00	-13.57	QP			
6		742.9500	39.11	-3.63	35.48	46.00	-10.52	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1360 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode: BLE 2440
Note:

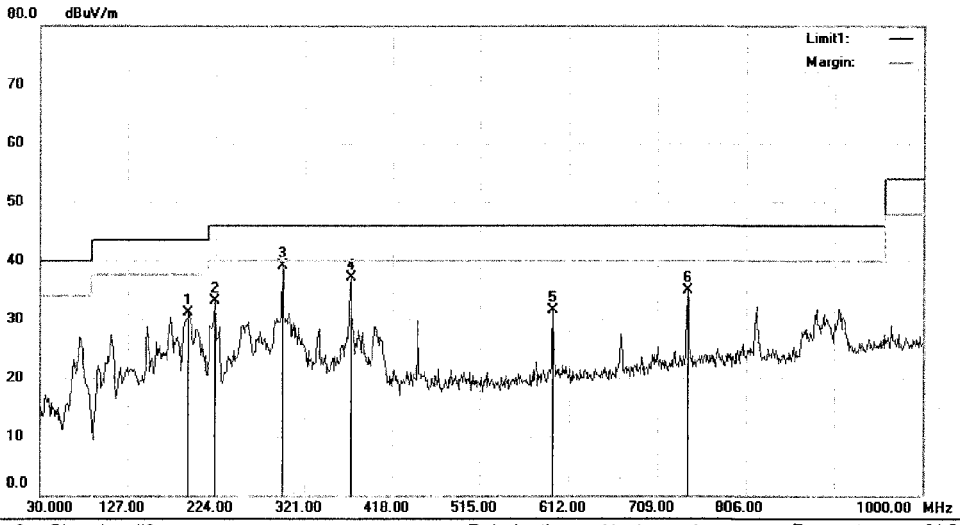
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		35.8200	47.88	-16.79	31.09	40.00	-8.91	QP			
2		64.9200	47.11	-16.46	30.65	40.00	-9.35	QP			
3		108.5700	52.18	-15.37	36.81	43.50	-6.69	QP			
4	*	157.0700	55.35	-18.52	36.83	43.50	-6.67	QP			
5		371.4400	38.35	-10.36	27.99	46.00	-18.01	QP			
6		594.5400	40.14	-5.95	34.19	46.00	-11.81	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1361 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2480
Note:

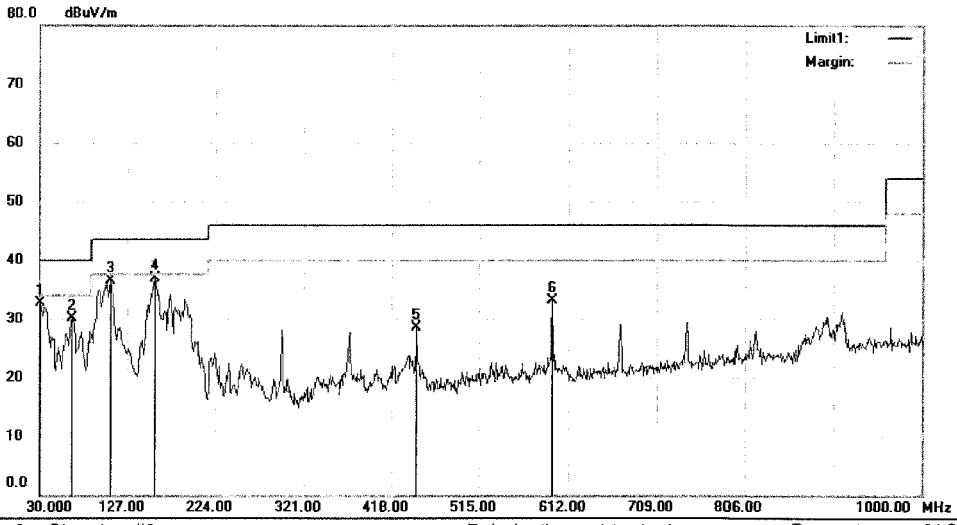
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		193.9300	47.37	-16.31	31.06	43.50	-12.44	QP			
2		223.0300	47.50	-14.41	33.09	46.00	-12.91	QP			
3	*	296.7500	50.82	-11.73	39.09	46.00	-6.91	QP			
4		371.4400	47.38	-10.36	37.02	46.00	-8.98	QP			
5		594.5400	37.44	-5.95	31.49	46.00	-14.51	QP			
6		742.9500	38.44	-3.63	34.81	46.00	-11.19	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1362 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2480
Note:

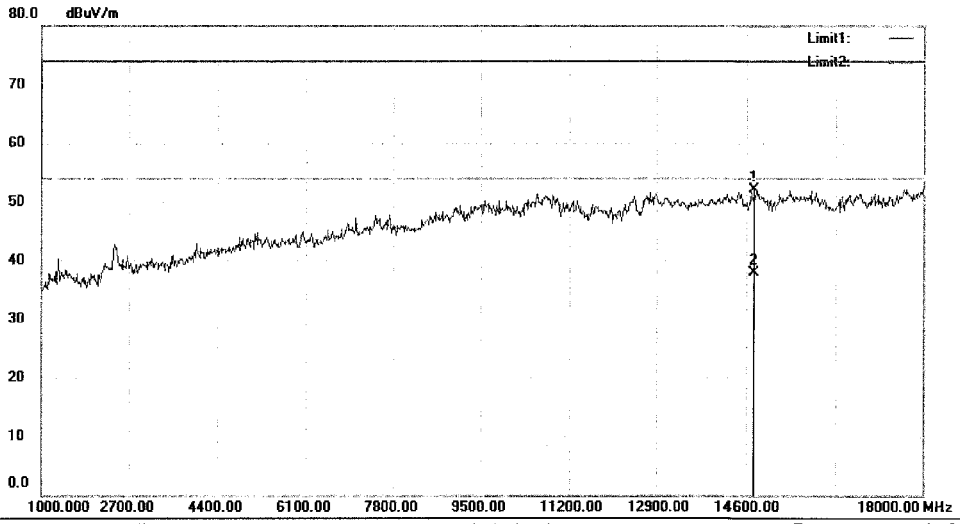
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.9700	50.16	-17.36	32.80	40.00	-7.20	QP			
2		65.8900	46.90	-16.73	30.17	40.00	-9.83	QP			
3		107.6000	51.78	-15.35	36.43	43.50	-7.07	QP			
4	*	157.0700	55.51	-18.52	36.99	43.50	-6.51	QP			
5		446.1300	37.25	-8.73	28.52	46.00	-17.48	QP			
6		594.5400	39.14	-5.95	33.19	46.00	-12.81	QP			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#2109 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2402
Note:

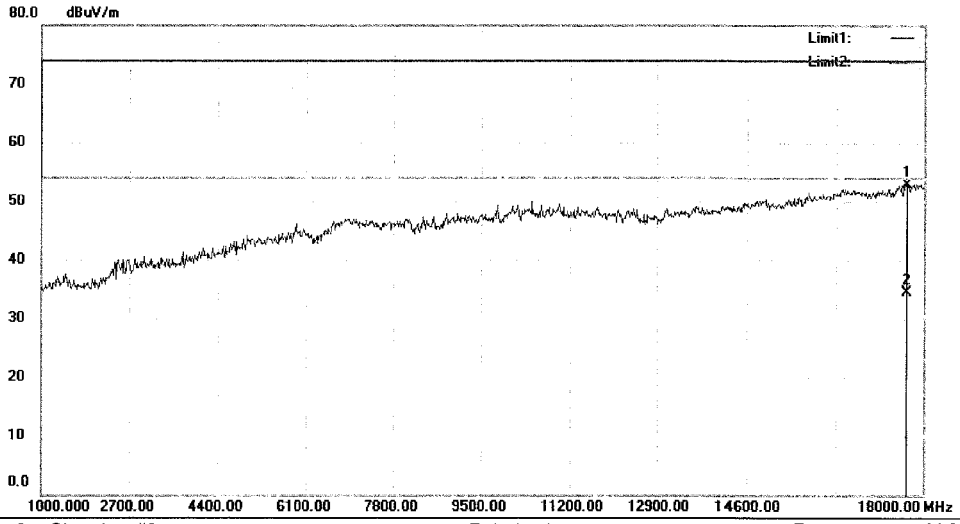
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		14753.00	50.17	1.95	52.12	74.00	-21.88	peak		0	
2	*	14753.00	36.00	1.95	37.95	54.00	-16.05	AVG		0	

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#2110 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2402
Note:

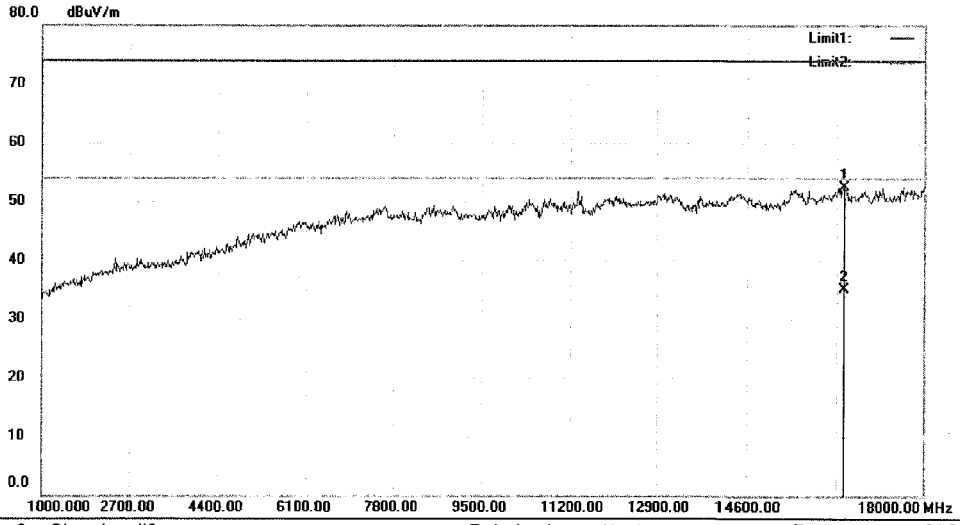
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		17660.00	42.24	10.75	52.99	74.00	-21.01	peak			
2	*	17660.00	23.85	10.75	34.60	54.00	-19.40	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg.69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#2111 Date:



Site 3m Chamber #3 Polarization: *Horizontal* Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2440
Note:

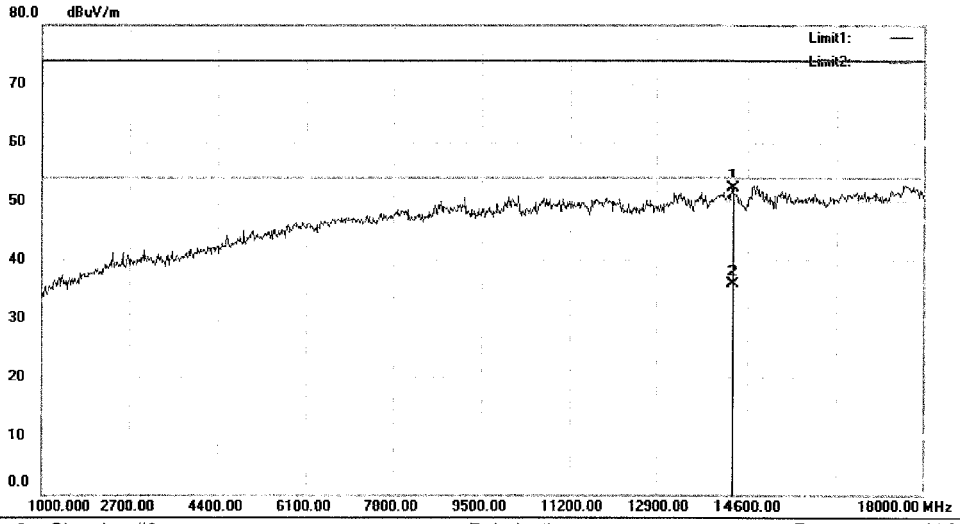
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		16436.00	52.85	-0.28	52.57	74.00	-21.43	peak			
2	*	16436.00	35.38	-0.28	35.10	54.00	-18.90	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#2112 Date:



Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2440
Note:

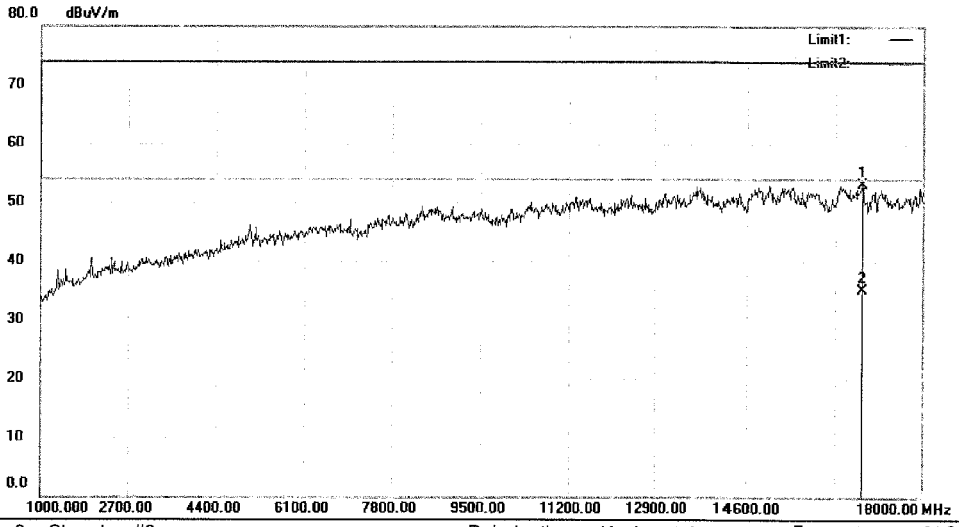
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		14328.00	50.07	2.24	52.31	74.00	-21.69	peak			
2	*	14328.00	33.76	2.24	36.00	54.00	-18.00	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#2114 Date:



Site 3m Chamber #3
Limit: (RE)FCC PART 15 C
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2480
Note:

Polarization: *Horizontal*
Power: AC 120V/60Hz

Temperature: 24 C
Humidity: 53 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		16827.00	51.77	1.34	53.11	74.00	-20.89	peak			
2	*	16827.00	33.86	1.34	35.20	54.00	-18.80	AVG			

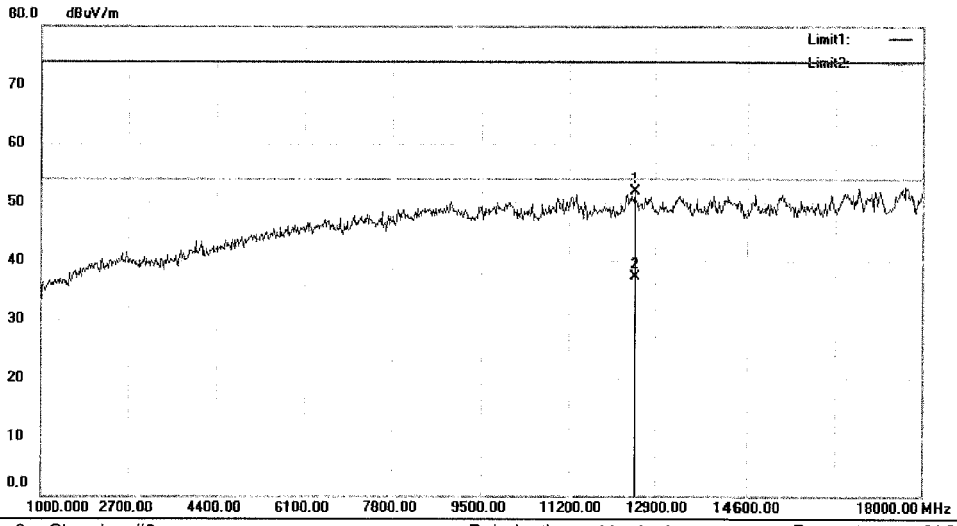
*:Maximum data x:Over limit !:over margin

Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#2113 Date:



Site 3m Chamber #3
Limit: (RE)FCC PART 15 C
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2480
Note:

Polarization: ***Vertical***
Power: AC 120V/60Hz

Temperature: 24 C
Humidity: 53 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		12492.00	54.77	-2.84	51.93	74.00	-22.07	peak		0	
2	*	12492.00	40.14	-2.84	37.30	54.00	-16.70	AVG		0	

*:Maximum data x:Over limit !:over margin

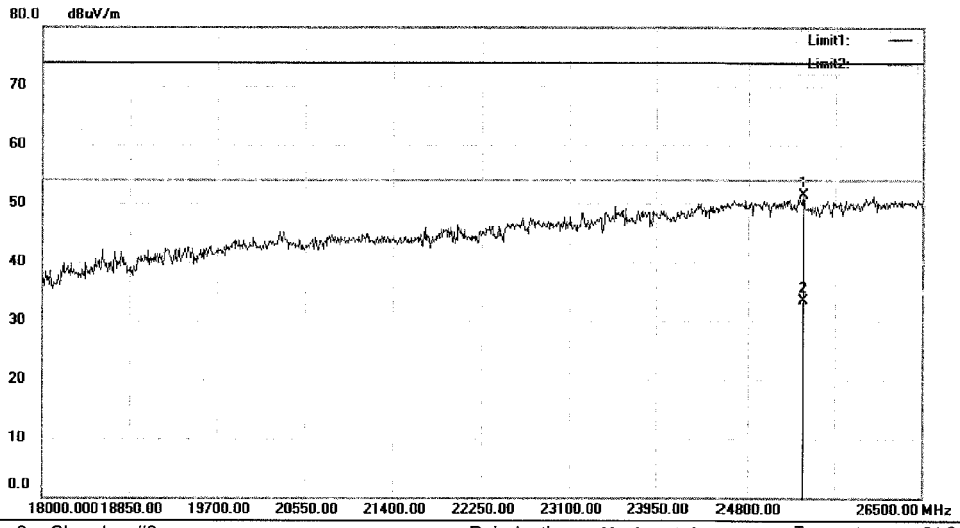
Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg.69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

EMTEK
Access to the World

Radiated Emission Measurement

File :TUV Data :#1715 Date:



Site 3m Chamber #3 Polarization: ***Horizontal*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2402
Note:

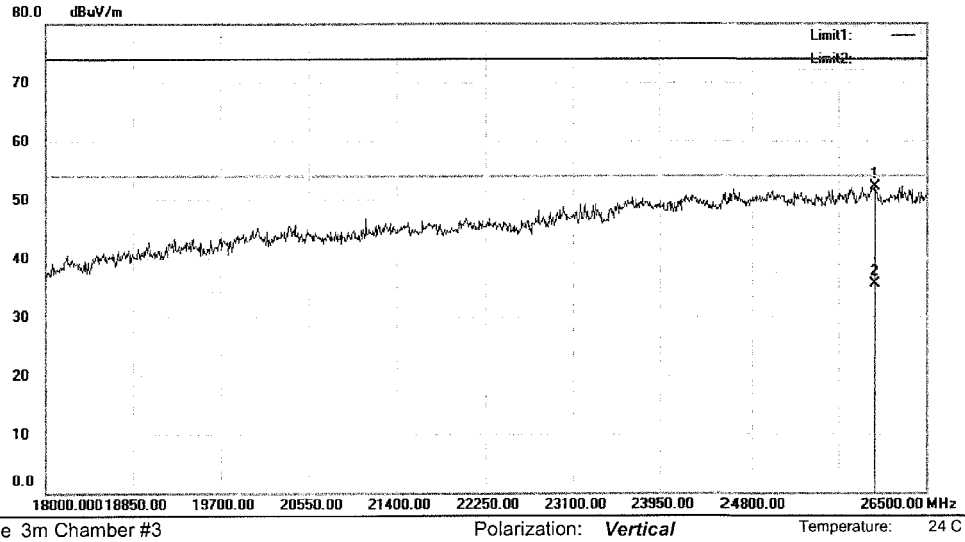
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		25335.50	88.20	-36.60	51.60	74.00	-22.40	peak		0	
2	*	25335.50	70.10	-36.60	33.50	54.00	-20.50	AVG		0	

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV Data :#1716 Date:



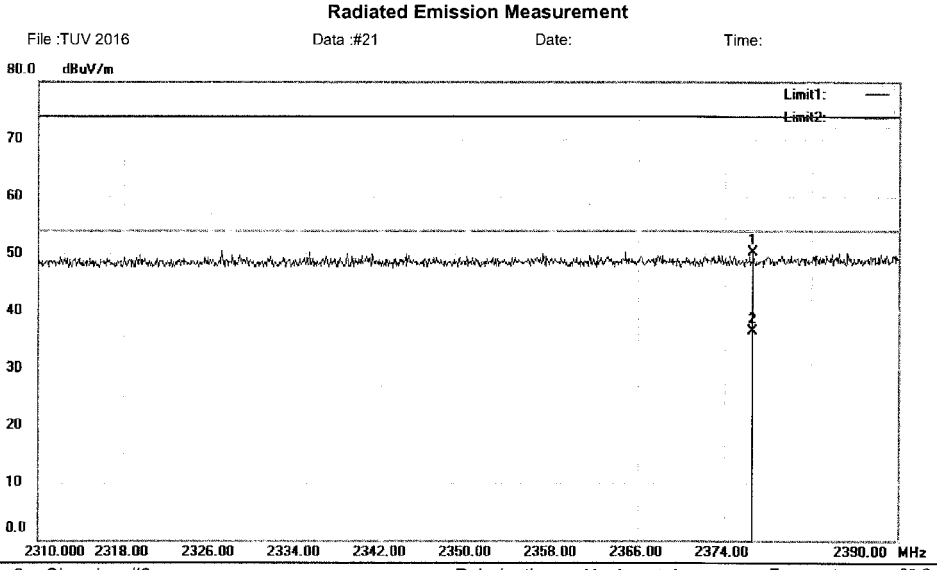
Site 3m Chamber #3 Polarization: ***Vertical*** Temperature: 24 C
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2402
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		26007.00	87.93	-35.78	52.15	74.00	-21.85	peak		0	
2	*	26007.00	71.38	-35.78	35.60	54.00	-18.40	AVG		0	

*:Maximum data x:Over limit !:over margin Operator: KK

Test Plot of Band Edge

Shenzhen EMTEK Co., Ltd.
Bldg.69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Site 3m Chamber #2 Polarization: ***Horizontal*** Temperature: 22 C
Limit: (RE)FCC PART 15 CLASS B PEAK Power: AC 120V/60Hz Humidity: 50 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:DH1 2402
Note:

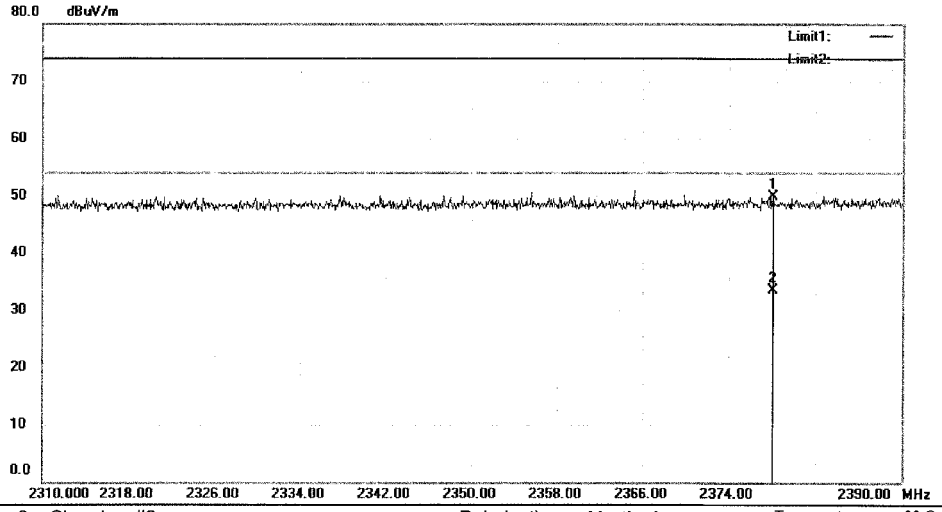
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2376.450	18.78	31.43	50.21	74.00	-23.79	peak			
2	*	2376.450	5.07	31.43	36.50	54.00	-17.50	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV 2016 Data :#22 Date: Time:



Site 3m Chamber #2 Polarization: *Vertical* Temperature: 22 C
Limit: (RE)FCC PART 15 CLASS B PEAK Power: AC 120V/60Hz Humidity: 50 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:DH1 2402
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2377.907	18.53	31.43	49.96	74.00	-24.04	peak			
2	*	2377.907	2.17	31.43	33.60	54.00	-20.40	AVG			

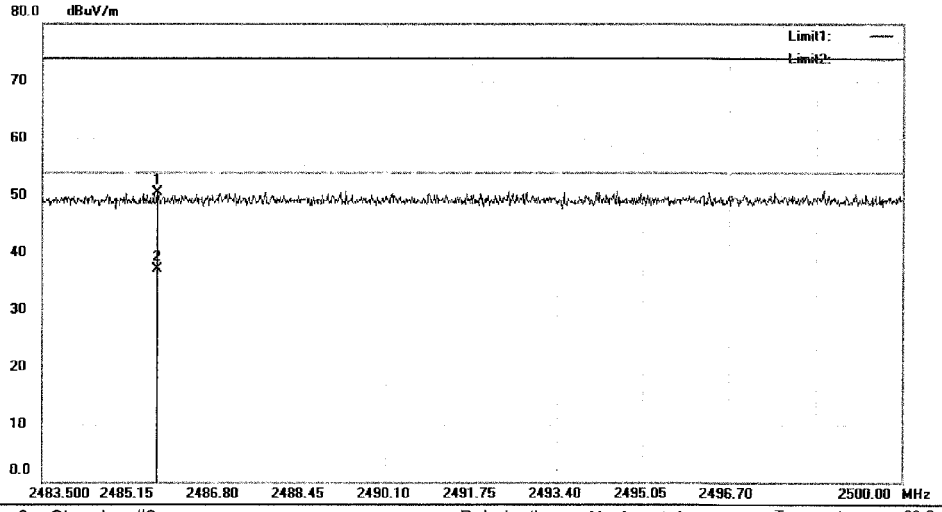
*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

EMTEK
Access to the World

Radiated Emission Measurement

File :TUV 2016 Data :#23 Date: Time:



Site 3m Chamber #2 Polarization: ***Horizontal*** Temperature: 22 C
Limit: (RE)FCC PART 15 CLASS B PEAK Power: AC 120V/60Hz Humidity: 50 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:DH1 2480
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2485.672	18.60	31.86	50.46	74.00	-23.54	peak			
2	*	2485.672	5.34	31.86	37.20	54.00	-16.80	AVG			

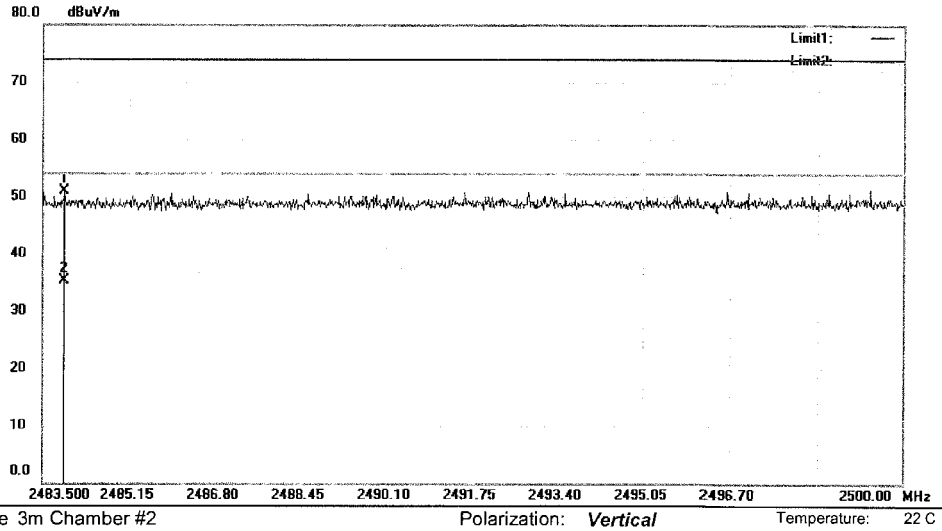
*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg.69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

EMTEK
Access to the World

Radiated Emission Measurement

File :TUV 2016 Data :#24 Date: Time:



Site 3m Chamber #2 Polarization: *Vertical* Temperature: 22 C
Limit: (RE)FCC PART 15 CLASS B PEAK Power: AC 120V/60Hz Humidity: 50 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:DH1 2480
Note:

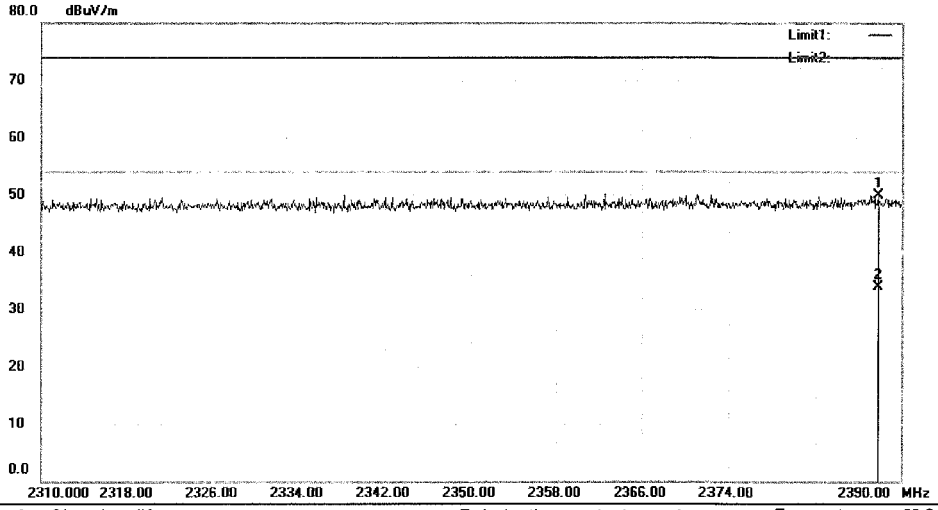
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.911	19.04	31.85	50.89	74.00	-23.11	peak			
2	*	2483.911	3.55	31.85	35.40	54.00	-18.60	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV 2016 Data :#27 Date: Time:



Site 3m Chamber #2 Polarization: ***Horizontal*** Temperature: 22 C
Limit: (RE)FCC PART 15 CLASS B PEAK Power: AC 120V/60Hz Humidity: 50 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:3DH1 2402
Note:

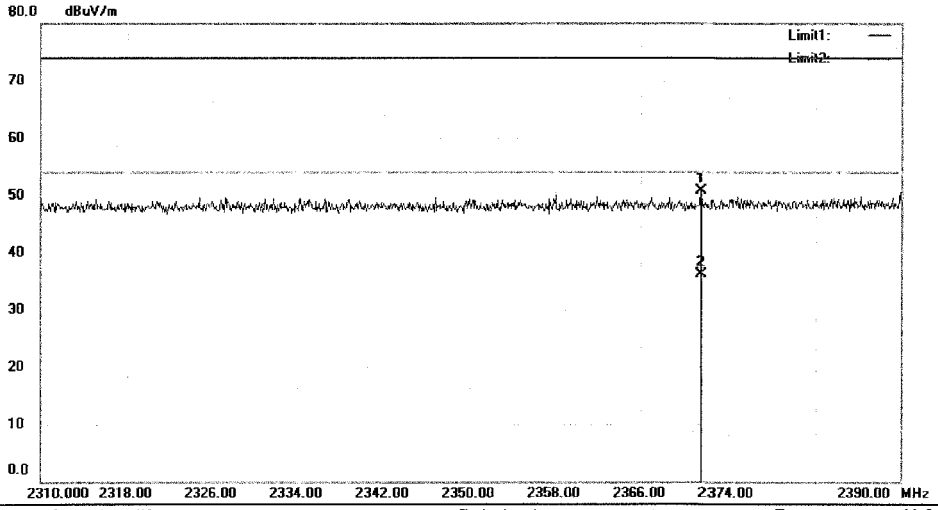
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2387.723	18.48	31.47	49.95	74.00	-24.05	peak			
2	*	2387.723	2.53	31.47	34.00	54.00	-20.00	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV 2016 Data :#28 Date: Time:



Site 3m Chamber #2 Polarization: ***Vertical*** Temperature: 22 C
Limit: (RE)FCC PART 15 CLASS B PEAK Power: AC 120V/60Hz Humidity: 50 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:3DH1 2402
Note:

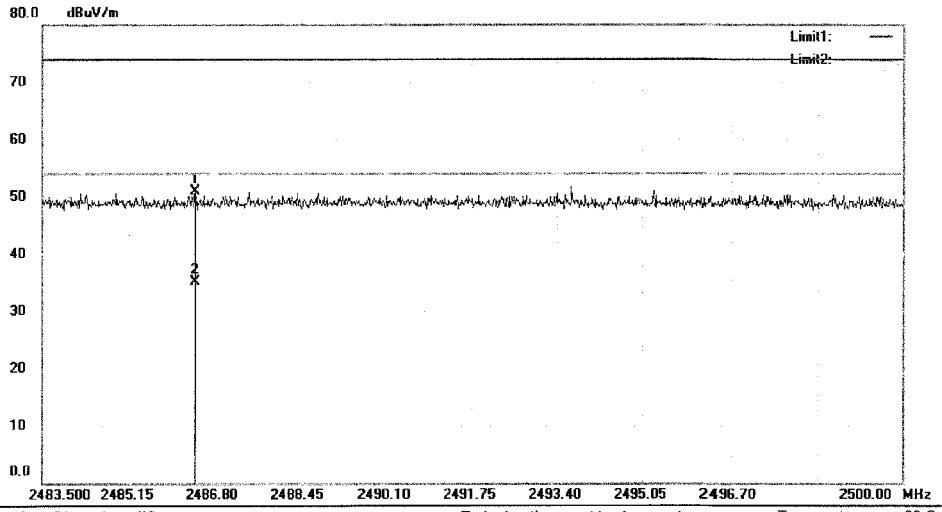
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2371.439	19.29	31.40	50.69	74.00	-23.31	peak			
2	*	2371.439	4.70	31.40	36.10	54.00	-17.90	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV 2016 Data :#26 Date: Time:



Site 3m Chamber #2 Polarization: ***Horizontal*** Temperature: 22 C
Limit: (RE)FCC PART 15 CLASS B PEAK Power: AC 120V/60Hz Humidity: 50 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:3DH1 2480
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2486.429	19.08	31.86	50.94	74.00	-23.06	peak			
2	*	2486.429	3.34	31.86	35.20	54.00	-18.80	AVG			

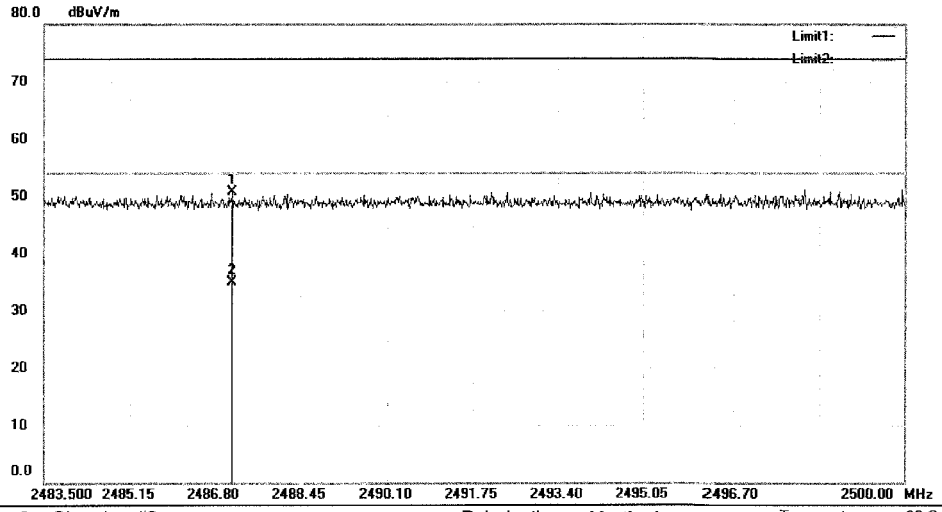
*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

EMTEK
Access to the World

Radiated Emission Measurement

File :TUV 2016 Data :#25 Date: Time:



Site 3m Chamber #2 Polarization: ***Vertical*** Temperature: 22 C
Limit: (RE)FCC PART 15 CLASS B PEAK Power: AC 120V/60Hz Humidity: 50 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:3DH1 2480
Note:

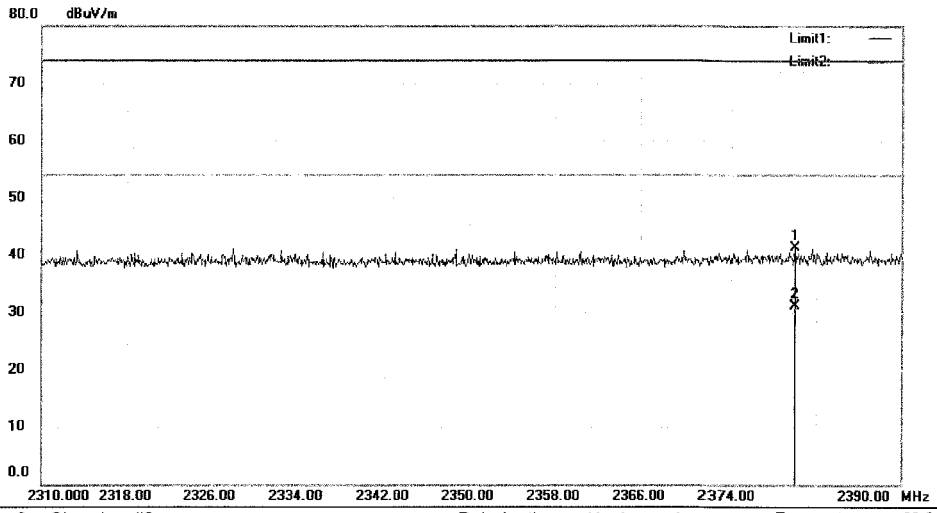
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2487.137	18.76	31.86	50.62	74.00	-23.38	peak			
2	*	2487.137	3.04	31.86	34.90	54.00	-19.10	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV 2016 Data :#18 Date: Time:



Site 3m Chamber #2 Polarization: ***Horizontal*** Temperature: 22 C
Limit: (RE)FCC PART 15 CLASS B PEAK Power: AC 120V/60Hz Humidity: 50 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2402
Note:

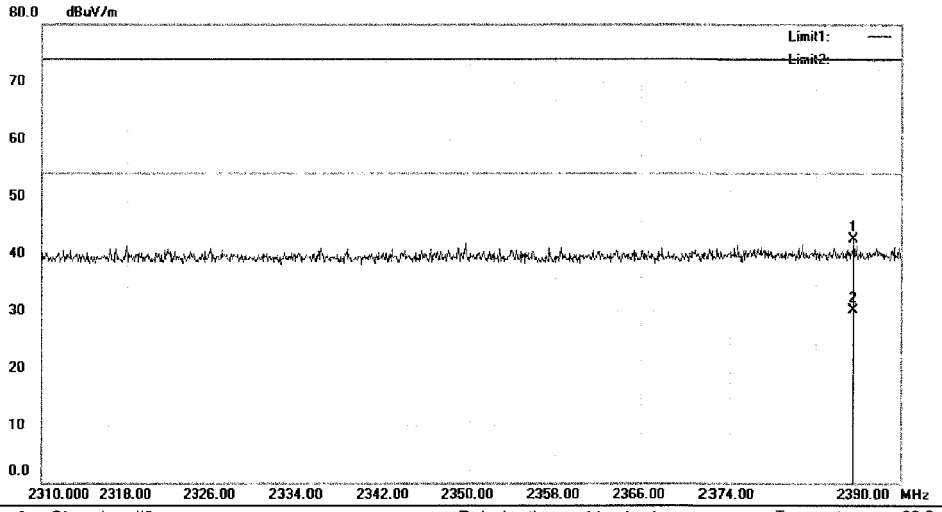
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2379.850	49.26	-7.95	41.31	74.00	-32.69	peak			
2	*	2379.850	39.15	-7.95	31.20	54.00	-22.80	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV 2016 Data :#17 Date: Time:



Site 3m Chamber #2 Polarization: ***Vertical*** Temperature: 22 C
Limit: (RE)FCC PART 15 CLASS B PEAK Power: AC 120V/60Hz Humidity: 50 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2402
Note:

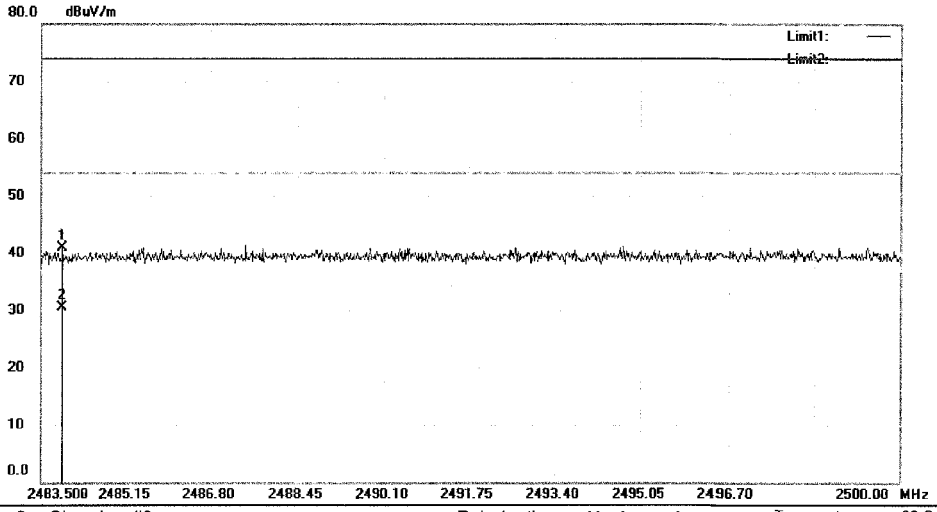
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2385.529	50.47	-7.92	42.55	74.00	-31.45	peak			
2	*	2385.529	38.12	-7.92	30.20	54.00	-23.80	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg.69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV 2016 Data :#19 Date: Time:



Site 3m Chamber #2 Polarization: ***Horizontal*** Temperature: 22 C
Limit: (RE)FCC PART 15 CLASS B PEAK Power: AC 120V/60Hz Humidity: 50 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2480
Note:

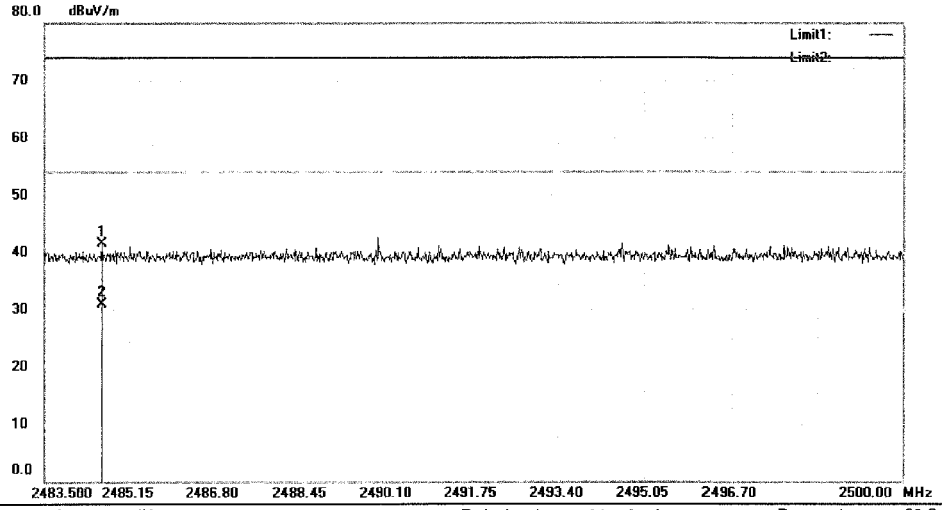
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.911	48.42	-7.53	40.89	74.00	-33.11	peak			
2	*	2483.911	38.13	-7.53	30.60	54.00	-23.40	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

Radiated Emission Measurement

File :TUV 2016 Data :#20 Date: Time:



Site 3m Chamber #2 Polarization: ***Vertical*** Temperature: 22 C
Limit: (RE)FCC PART 15 CLASS B PEAK Power: AC 120V/60Hz Humidity: 50 %
EUT: Wall board 32" Tablet
M/N: P-WAL-106-YIT-01
Mode:BLE 2480
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2484.602	49.10	-7.53	41.57	74.00	-32.43	peak			
2	*	2484.602	38.43	-7.53	30.90	54.00	-23.10	AVG			

*:Maximum data x:Over limit !:over margin Operator: KK

5.1.8 Frequency Separation

RESULT: **Pass**

Date of testing	:	2016-07-26
Test standard	:	FCC part 15.247(a)(1) RSS-247 clause 5.1(2)
Basic standard	:	ANSI C63.10: 2013
Limit	:	≥ 25kHz or two-thirds of 20dB bandwidth, whichever is greater
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25℃
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 14: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1.011	≥ 25kHz or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1.011	≥ 25kHz or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2479	1.005	≥ 25kHz or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2480			

5.1.9 Number of hopping frequency

RESULT: **Pass**

Date of testing	:	2016-07-26
Test standard	:	FCC part 15.247(a)(1)(iii) RSS-247 clause 5.1(4)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25℃
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 15: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480MHz	79	≥15	Pass

5.1.10 Time of Occupancy

RESULT: **Pass**

Date of testing	:	2016-07-26
Test standard	:	FCC part 15.247(a)(1)(iii) RSS-247 clause 5.1(4)
Basic standard	:	ANSI C63.10: 2013
Limits	:	0.4s
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25℃
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 16: Test result of Time of Occupancy

Mode	Packet Type	Channel Frequency (MHz)	Packet Duration [ms]	Number of Hops per Channel	Dwell Time (ms)	Limit [ms]
BDR	DH1	2402	0.384	320	122.88	400
		2441	0.384	320	122.88	400
		2480	0.380	320	121.6	400
	DH3	2402	1.638	165	270.27	400
		2441	1.624	165	267.96	400
		2480	1.638	165	270.27	400
	DH5	2402	2.870	112	321.44	400
		2441	2.880	112	322.56	400
		2480	2.880	112	322.56	400
EDR	DH1	2402	0.300	320	96.00	400
		2441	0.296	320	94.72	400
		2480	0.300	320	96.00	400
	DH3	2402	1.638	165	270.27	400
		2441	1.638	165	270.27	400
		2480	1.645	165	271.43	400
	DH5	2402	2.890	112	323.68	400
		2441	2.870	112	321.44	400
		2480	2.890	112	323.68	400

5.1.11 Conducted emissions

RESULT: **Pass**

Date of testing	:	2016-08-13
Test standard	:	FCC Part 15.207 RSS-Gen Clause 8.8
Basic standard	:	ANSI C63.10: 2013
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207 Table 3 of RSS-Gen
Kind of test site	:	Shield room

Test setup

Input Voltage	:	AC 120V, 60Hz
Operation Mode	:	A
Earthing	:	Not Connected
Ambient temperature	:	22℃
Relative humidity	:	55%
Atmospheric pressure	:	101kPa

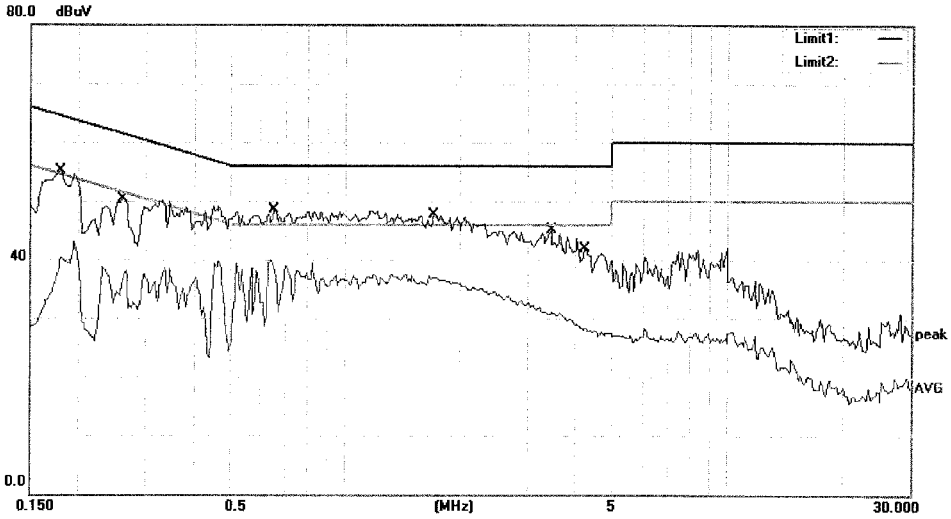
For details refer to following test plot.

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

EMTEK
Access to the World

Conducted Emission Measurement

File :TUV-RH Data :#288 Date: 16/08/13/



Site Conducted #3 Phase: *L1* Temperature: 22
Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
EUT: WALLBOARD32"TABLET
M/N: P-WAL-106-YIT-01
Mode: BT Connect
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1800	55.07	0.00	55.07	64.49	-9.42	QP	
2		0.1800	43.01	0.00	43.01	54.49	-11.48	AVG	
3		0.2600	50.35	0.00	50.35	61.43	-11.08	QP	
4		0.2600	38.61	0.00	38.61	51.43	-12.82	AVG	
5		0.6500	48.51	0.00	48.51	56.00	-7.49	QP	
6	*	0.6500	39.91	0.00	39.91	46.00	-6.09	AVG	
7		1.7000	47.67	0.00	47.67	56.00	-8.33	QP	
8		1.7000	37.52	0.00	37.52	46.00	-8.48	AVG	
9		3.4550	45.06	0.00	45.06	56.00	-10.94	QP	
10		3.4550	34.66	0.00	34.66	46.00	-11.34	AVG	
11		4.2350	41.94	0.00	41.94	56.00	-14.06	QP	
12		4.2350	28.28	0.00	28.28	46.00	-17.72	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jason

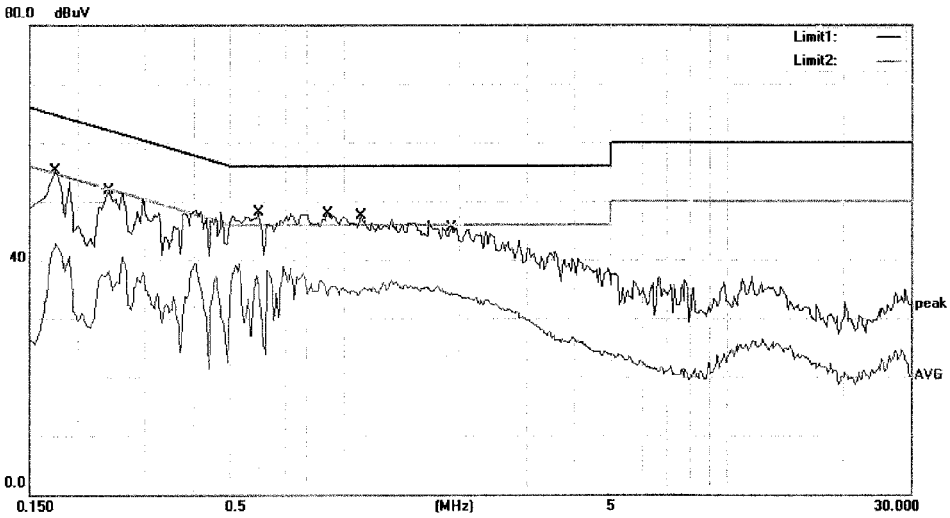
File :TUV-RH\Data :#288 *Page: 1*

Shenzhen EMTEK Co., Ltd.
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282

EMTEK
Access to the World

Conducted Emission Measurement

File :TUV-RH Data :#289 Date: 16/08/13/



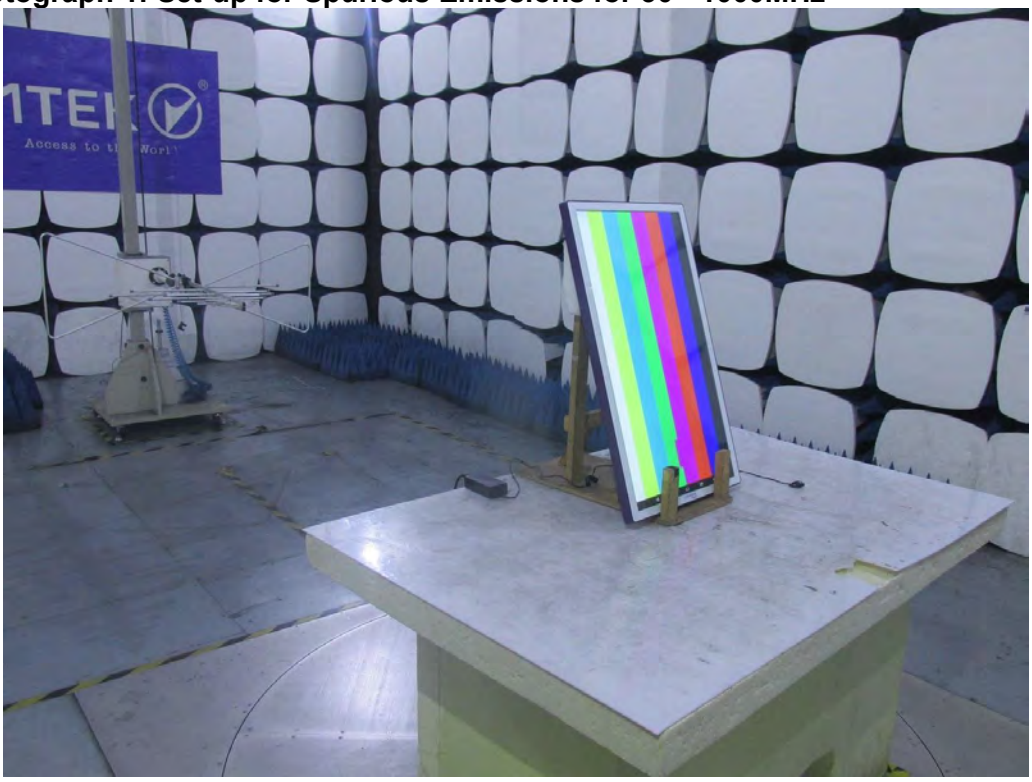
Site Conducted #3 Phase: *N* Temperature: 22
Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
EUT: WALLBOARD32"TABLET
M/N: P-WAL-106-YIT-01
Mode: BT Connect
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1750	55.23	0.00	55.23	64.72	-9.49	QP	
2		0.1750	42.82	0.00	42.82	54.72	-11.90	AVG	
3		0.2400	51.92	0.00	51.92	62.10	-10.18	QP	
4		0.2400	40.50	0.00	40.50	52.10	-11.60	AVG	
5		0.5950	48.20	0.00	48.20	56.00	-7.80	QP	
6	*	0.5950	39.58	0.00	39.58	46.00	-6.42	AVG	
7		0.9050	47.85	0.00	47.85	56.00	-8.15	QP	
8		0.9050	37.65	0.00	37.65	46.00	-8.35	AVG	
9		1.1000	47.41	0.00	47.41	56.00	-8.59	QP	
10		1.1000	36.48	0.00	36.48	46.00	-9.52	AVG	
11		1.9000	45.48	0.00	45.48	56.00	-10.52	QP	
12		1.9000	35.70	0.00	35.70	46.00	-10.30	AVG	

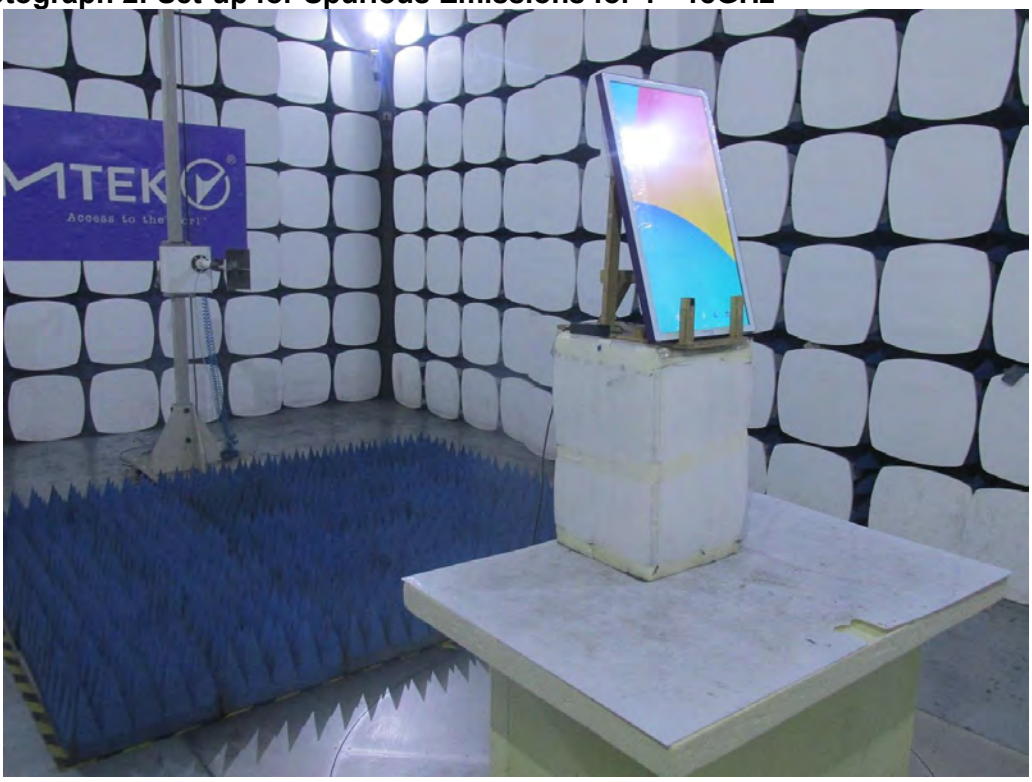
*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Jason

6. Photographs of the Test Set-Up

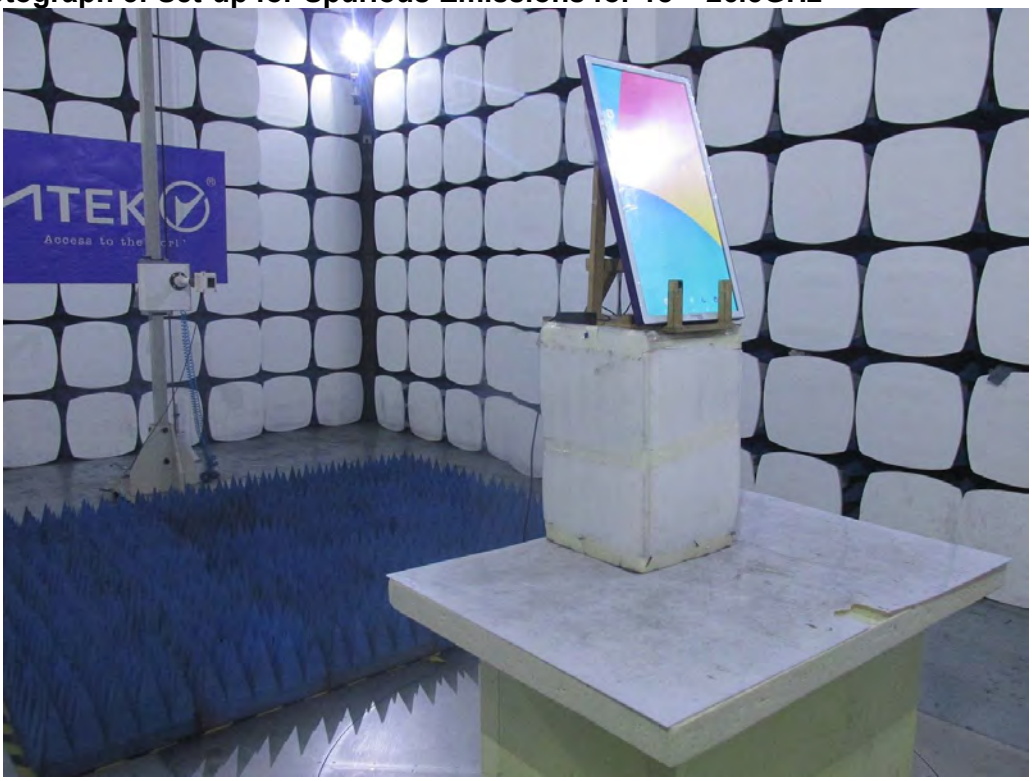
Photograph 1: Set-up for Spurious Emissions for 30 - 1000MHz



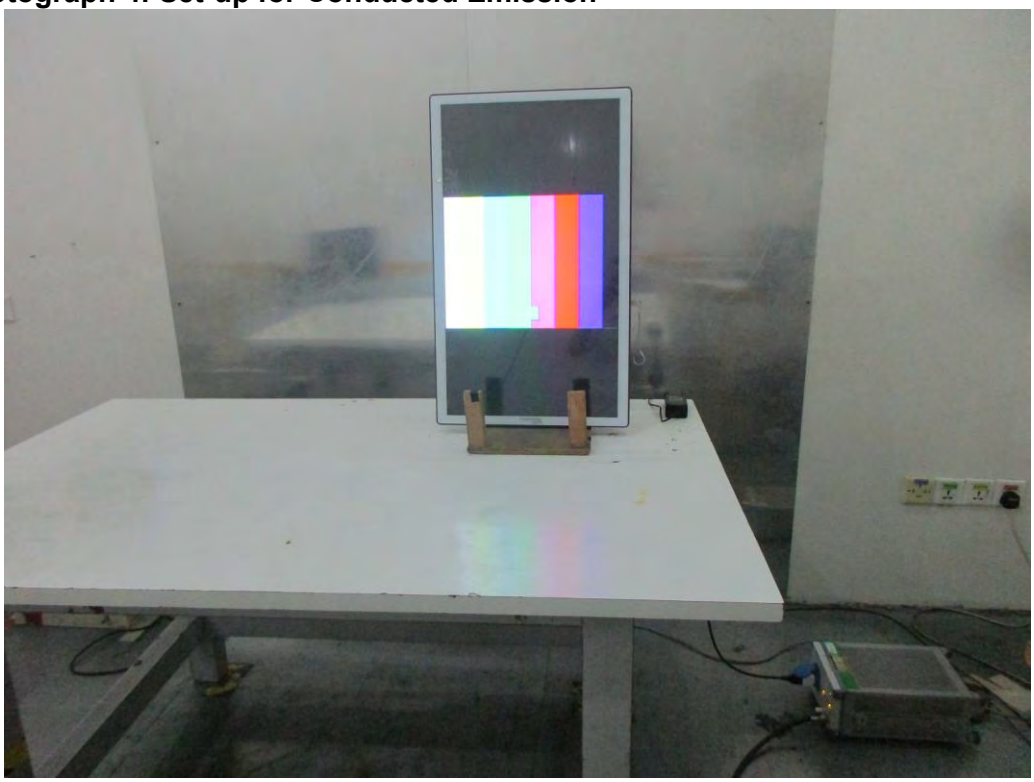
Photograph 2: Set-up for Spurious Emissions for 1 - 18GHz



Photograph 3: Set-up for Spurious Emissions for 18 – 26.5GHz



Photograph 4: Set-up for Conducted Emission



7. List of Tables

Table 1: List of Test and Measurement Equipment 5
Table 2: Measurement Uncertainty 6
Table 3: Technical Specification of Bluetooth (BDR & EDR mode) 8
Table 4: RF channel and frequency of Bluetooth (BDR & EDR mode).....8
Table 5: Technical Specification of Bluetooth (Low Energy mode).....9
Table 6: RF channel and frequency of Bluetooth (Low Energy mode) 9
Table 7: Test result of Peak Output Power of Buletooth (BDR mode).....15
Table 8: Test result of Peak Output Power of Bluetooth (EDR mode).....15
Table 9: Test result of Peak Output Power of Bluetooth (Low Energy mode) 15
Table 10: Test result of 20dB and 99% Bandwidth of BDR mode 16
Table 11: Test result of 20dB and 99% Bandwidth of EDR mode 16
Table 12: Test result of 6dB Bandwidth and 99% Bandwidth of Bluetooth, Low Energy mode.....17
Table 13: Test result of power spectral density.....31
Table 14: Test result of Frequency Separation 85
Table 15: Test result of Number of hopping frequency 86
Table 16: Test result of Time of Occupancy.....87

8. List of Photographs

Photograph 1: Set-up for Spurious Emissions for 30 - 1000MHz 91
Photograph 2: Set-up for Spurious Emissions for 1 - 18GHz.....91
Photograph 3: Set-up for Spurious Emissions for 18 – 26.5GHz.....92
Photograph 4: Set-up for Conducted Emission.....92