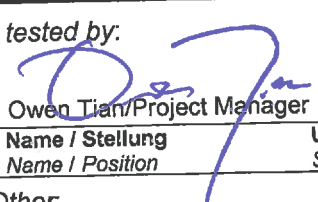
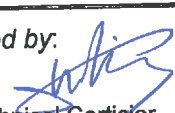


Prüfbericht-Nr.: Test Report No.:	17040437 001	Auftrags-Nr.: Order No.:	164014360	Seite 1 von 92 Page 1 of 92												
Kunden-Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: Order date:	20.05.2014													
Auftraggeber: Client:	KEEN HIGH TECHNOLOGIES LTD. Block A1 & A2, Ze Da Li Industrial Park, Tangwei Area, Fuyong, Bao'an, Shenzhen, Guangdong, China															
Prüfgegenstand: Test item:	Tablet															
Bezeichnung / Typ-Nr.: Identification / Type No.:	NS-15AT10															
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-210 Issue 8 December 2010 RSS-Gen Issue 3 December 2010															
Wareneingangsdatum: Date of receipt:	25.05.2014															
Prüfmuster-Nr.: Test sample No.:	A000073356-001, A000073356-002, A000073356-003															
Prüfzeitraum: Testing period:	27.05.2014 - 07.06.2014															
Ort der Prüfung: Place of testing:	Accurate Technology Co., Ltd.															
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.															
Prüfergebnis*: Test result*:	Pass															
geprüft von / tested by:		kontrolliert von / reviewed by:														
 13.06.2014 Datum Date Owen Tian/Project Manager Name / Stellung Name / Position Unterschrift Signature		 13.06.2014 Datum Date Sam Lin/Technical Certifier Name / Stellung Name / Position Unterschrift Signature														
Sonstiges / Other:																
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged														
<table style="width:100%; font-size: small;"> <tr> <td>* Legende:</td> <td>1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)</td> <td>2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)</td> <td>3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)</td> <td>4 = ausreichend N/A = nicht anwendbar</td> <td>5 = mangelhaft N/T = nicht getestet</td> </tr> <tr> <td>Legend:</td> <td>1 = very good P(ass) = passed a.m. test specification(s)</td> <td>2 = good F(ail) = failed a.m. test specification(s)</td> <td>3 = satisfactory F(ail) = failed a.m. test specification(s)</td> <td>4 = sufficient N/A = not applicable</td> <td>5 = poor N/T = not tested</td> </tr> </table>					* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar	5 = mangelhaft N/T = nicht getestet	Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable	5 = poor N/T = not tested
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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. <i>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.</i>																

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	5
2.4	CALIBRATION	5
2.5	MEASUREMENT UNCERTAINTY.....	6
2.6	LOCATION OF ORIGINAL DATA.....	6
2.7	STATUS OF FACILITY USED FOR TESTING.....	6
3.	GENERAL PRODUCT INFORMATION	7
3.1	PRODUCT FUNCTION AND INTENDED USE.....	7
3.2	RATINGS AND SYSTEM DETAILS	7
3.3	INDEPENDENT OPERATION MODES	9
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	9
3.5	SUBMITTED DOCUMENTS	9
4.	TEST SET-UP AND OPERATION MODES	10
4.1	PRINCIPLE OF CONFIGURATION SELECTION.....	10
4.2	TEST OPERATION AND TEST SOFTWARE	10
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	10
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....	10
4.5	TEST SETUP DIAGRAM	11
5.	TEST RESULTS	13
5.1	TRANSMITTER REQUIREMENT & TEST SUITES	13
5.1.1	Antenna Requirement	13
5.1.2	Peak Output Power	14
5.1.3	20dB Bandwidth and 99% Bandwidth.....	15
5.1.4	6dB Bandwidth and 99% Bandwidth.....	16
5.1.5	Conducted Spurious Emissions measured in 100kHz Bandwidth	17
5.1.6	Power spectral density	27
5.1.7	Spurious Emission	28
5.1.8	Frequency Separation.....	83
5.1.9	Number of hopping frequency.....	84
5.1.10	Time of Occupancy.....	85
5.1.11	Conducted emissions	86
6.	PHOTOGRAPHS OF THE TEST SET-UP	89
7.	LIST OF TABLES	92
8.	LIST OF PHOTOGRAPHS	92

Prüfbericht - Nr.: 17040437 001
*Test Report No.***Seite 4 von 92**
Page 4 of 92

1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051)

(Test site Industry Canada No.: 5077A-2)

F1, Bldg. A, Changyuan New Material Port
Keyuan Rd., Science & Industry Park, Nanshan
Shenzhen, 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 & Receiver spurious emissions				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2015-01-11
Test Receiver	Rohde&Schwarz	ESCS30	100307	2015-01-11
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2015-01-11
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2015-01-11
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2015-01-11
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2015-01-11
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	2015-01-11
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2015-01-11
Radio Spectrum Test				
EMI Test Receiver	Rohde&Schwarz	ESPI-3	100396/003	2015-01-11
Spectrum Analyzer	Agilent	E7405A	MY45115511	2015-01-11
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2015-01-11
Conducted Emission				
Test Receiver	Rohde&Schwarz	ESCS30	100307	2015-01-11
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2015-01-11
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100815	2015-01-11
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015-01-11

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 basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Spectrum	$< \pm 0.60 \text{ dB}$
Radiated emission of transmitter, valid up to 26.5 GHz	$< \pm 4.42 \text{ dB}$
Conducted Emission	$< \pm 2.23 \text{ dB}$
Radiated Emission	$< \pm 4.42 \text{ dB}$

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

Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan, Shenzhen, 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 EUT is 10" tablet with Wi-Fi & Bluetooth function.
 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	Tablet
Type Designation	NS-15AT10
FCC ID	XUZNS-15AT10
IC	10558A-NS15AT10
Operating Frequency band	2402 – 2480MHz
Channel separation	1MHz
Extreme Temperature Range	-30~+75°C
Operation Voltage	DC 3.7V (via built in battery)
	DC 5V (via AC/DC adapter)
Modulation	FHSS, GFSK, 8DPSK, $\pi/4$ DQPSK
Bluetooth version	4.0, Dual Mode
Antenna Gain	1.63dBi

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 Buletooth (LE mode)

Technical Specification	Value
Kind of Equipment	Tablet
Type Designation	NS-15AT10
Operating Frequency band	2402 – 2480MHz
Channel separation	2MHz
Extreme Temperature Range	-30~+75°C
Operation Voltage	DC 3.7V (via built in battery)
	DC 5V (via AC/DC adapter)
Modulation	GFSK
Bluetooth version	4.0
Antenna Gain	1.63dBi

Table 6: RF channel and frequency of Buletooth (LE 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. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
 - 2. Bluetooth mode (LE mode)
 - a. Transmitting
 - 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 C63.4: 2003.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	S/N	Rating
Notebook PC	Lenovo	4290-RT8	R9-FW93G	N/A
AC/DC Adapter	Ktec	KSAPK01105002 00FU	N/A	Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 5V, 2A

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
Micro USB port	4 cores, non-shielded port, 3m	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

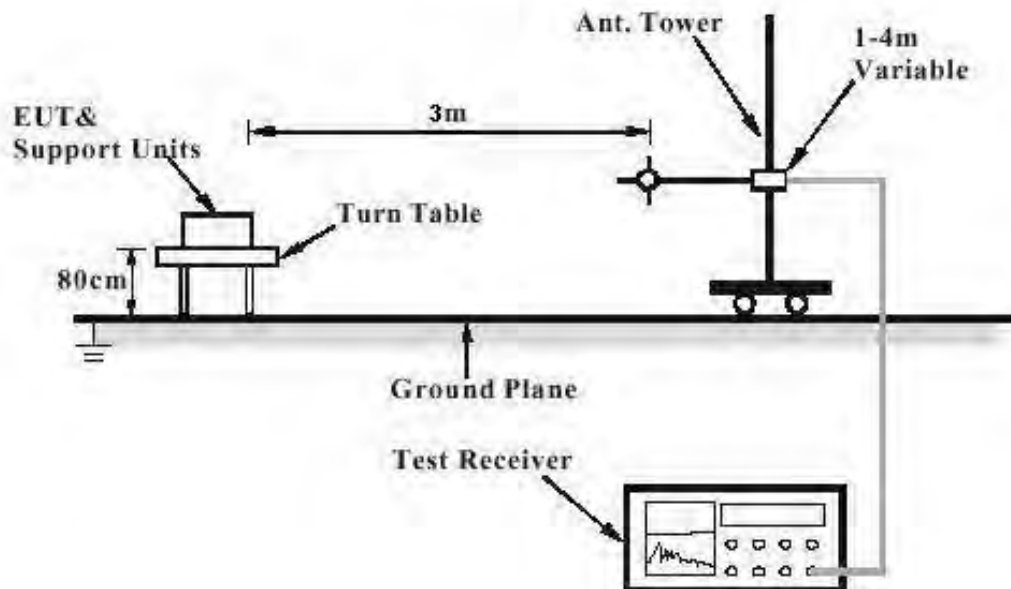


Diagram of Measurement Equipment Configuration for Conduction Measurement

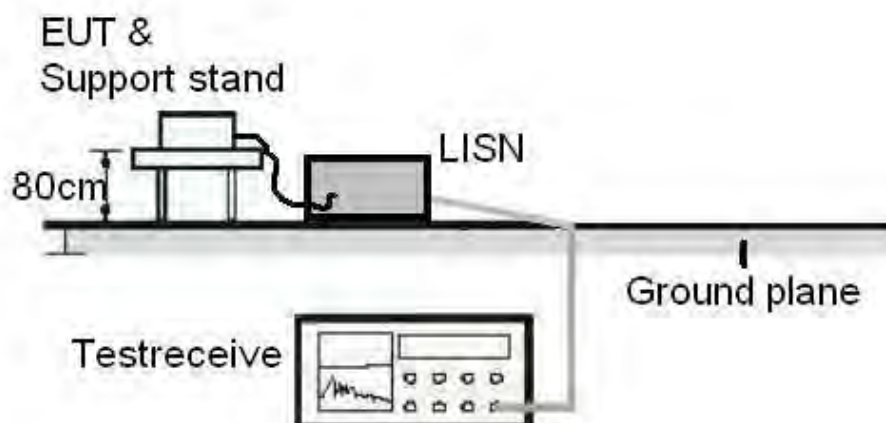
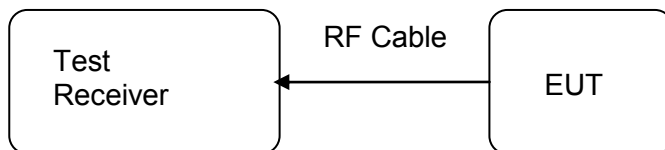


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass**

Test standard	:	FCC Part 15.247(b)(4) and Part 15.203 RSS-Gen 7.1.4
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 1.63dBi, 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 : 2014-05-29
 Test standard : FCC Part 15.247(b)(1)
 FCC Part 15.247(b)(3)
 RSS-210 A8.4(2)
 RSS-210 A8.4(4)
 Basic standard : ANSI C63.4: 2003
 Clause 9.1 of KDB 558074 v03r01
 Limit : 125mW, 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°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

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

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	-0.88	21
Middle Channel	2441	-0.10	21
High Channel	2480	0.65	21

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

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	1.47	21
Middle Channel	2441	2.26	21
High Channel	2480	2.78	21

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

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	0.65	30
Middle Channel	2440	1.16	30
High Channel	2480	1.47	30

Prüfbericht - Nr.: 17040437 001

Test Report No.

Seite 15 von 92

Page 15 of 92

5.1.3 20dB Bandwidth and 99% Bandwidth**RESULT:****Pass**

Date of testing : 2014-05-29
Test standard : FCC Part 15.247(a)(1)
RSS-210 A8.1(a)
Basic standard : ANSI C63.4: 2003
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°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

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

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.978	0.978
Mid Channel	2441	0.978	0.984
High Channel	2480	0.978	0.984

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

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	1.290	1.224
Mid Channel	2441	1.284	1.224
High Channel	2480	1.290	1.218

Prüfbericht - Nr.: 17040437 001

Test Report No.

Seite 16 von 92

Page 16 of 92

5.1.4 6dB Bandwidth and 99% Bandwidth**RESULT:****Pass**

Date of testing : 2014-05-29
Test standard : FCC Part 15.247(a)(2)
RSS-210 A8.2(a)
Basic standard : ANSI C63.4: 2003
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°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 12: Test result of 6dB & 99% Bandwidth of Bluetooth, LE mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.720	1.074
Mid Channel	2440	0.720	1.074
High Channel	2480	0.720	1.080

Prüfbericht - Nr.: 17040437 001

Test Report No.

Seite 17 von 92

Page 17 of 92

5.1.5 Conducted Spurious Emissions measured in 100kHz Bandwidth**RESULT:****Pass**

Date of testing	:	2014-06-05
Test standard	:	FCC part 15.247(d) RSS-210 A8.5
Basic standard	:	ANSI C63.4: 2003
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

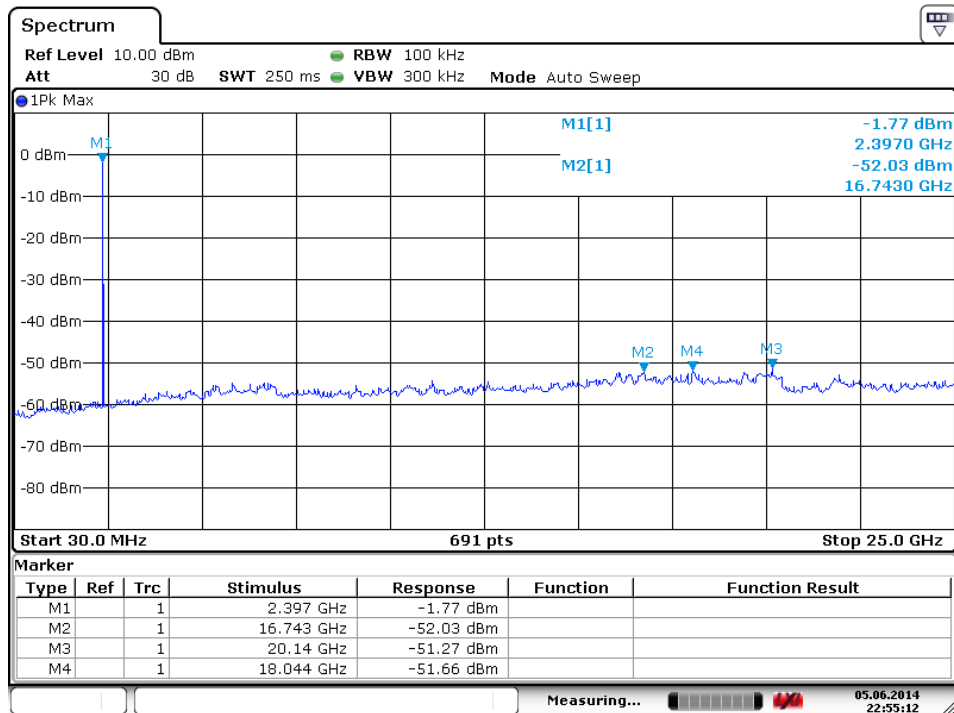
Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a, A.2.a
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

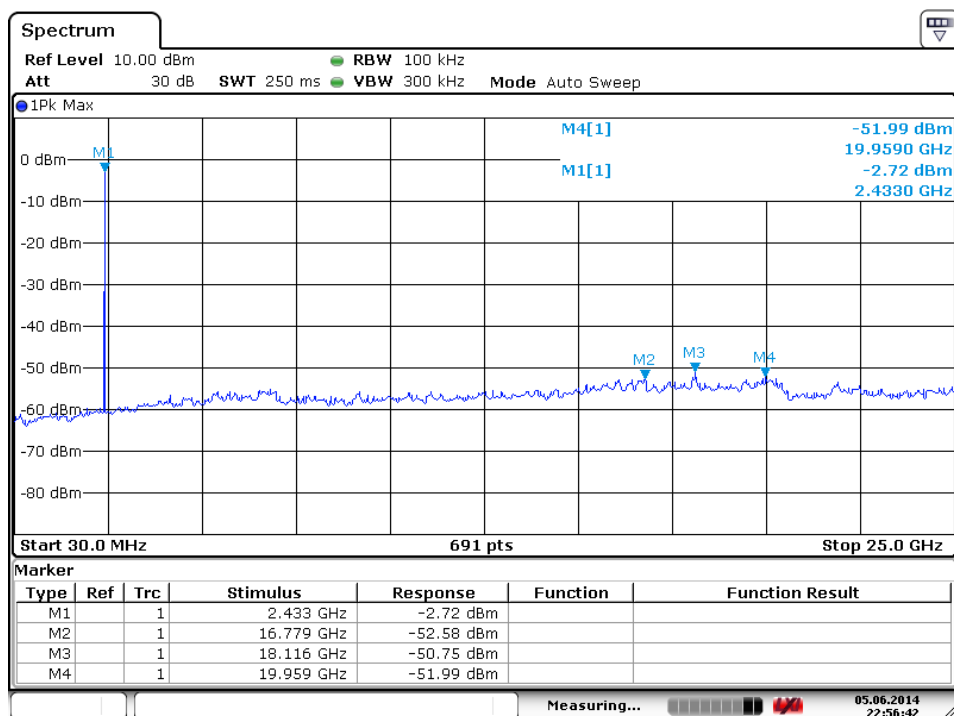
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of BDR mode

Low Channel



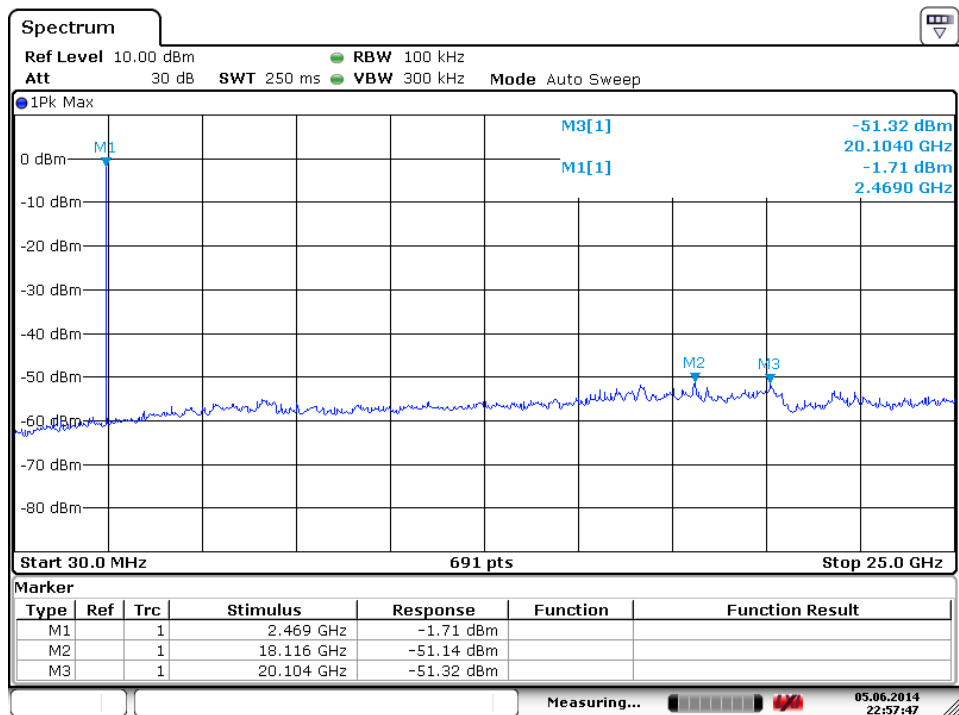
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Middle Channel

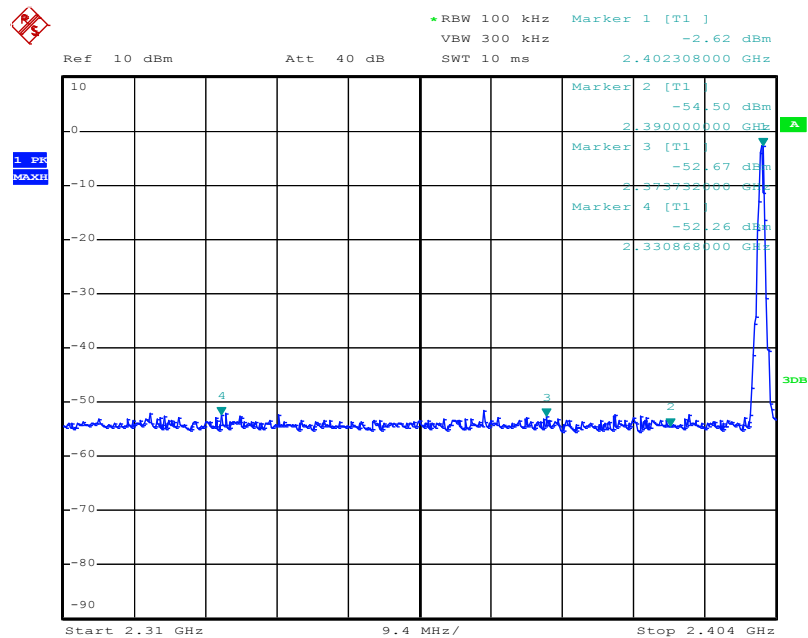


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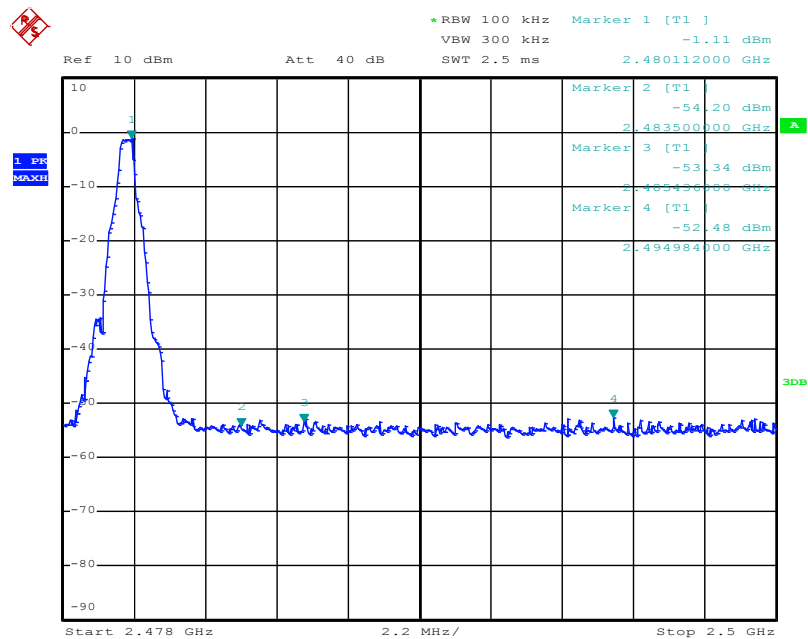
High Channel



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Band Edge


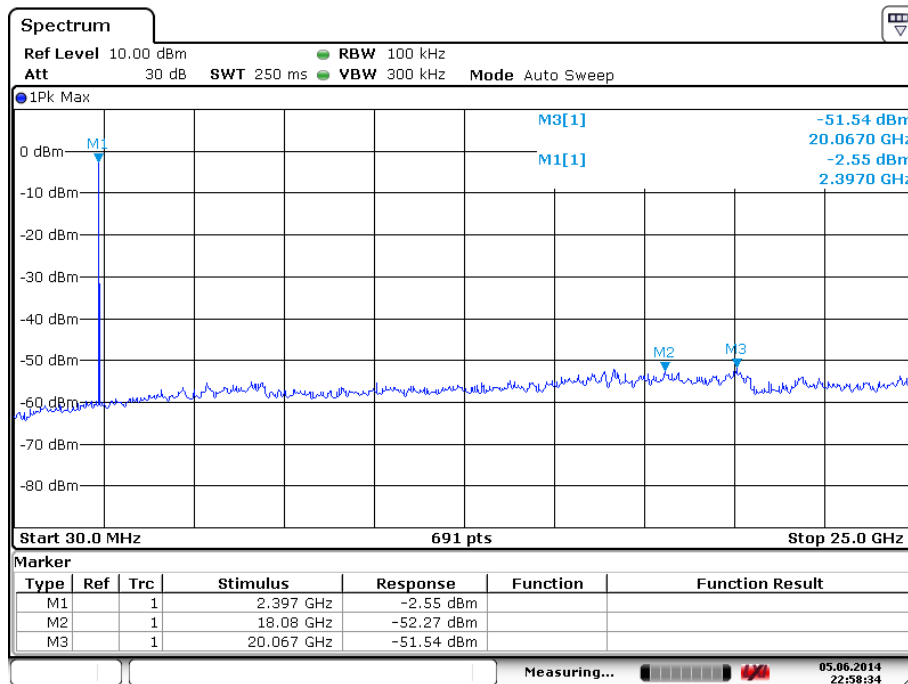
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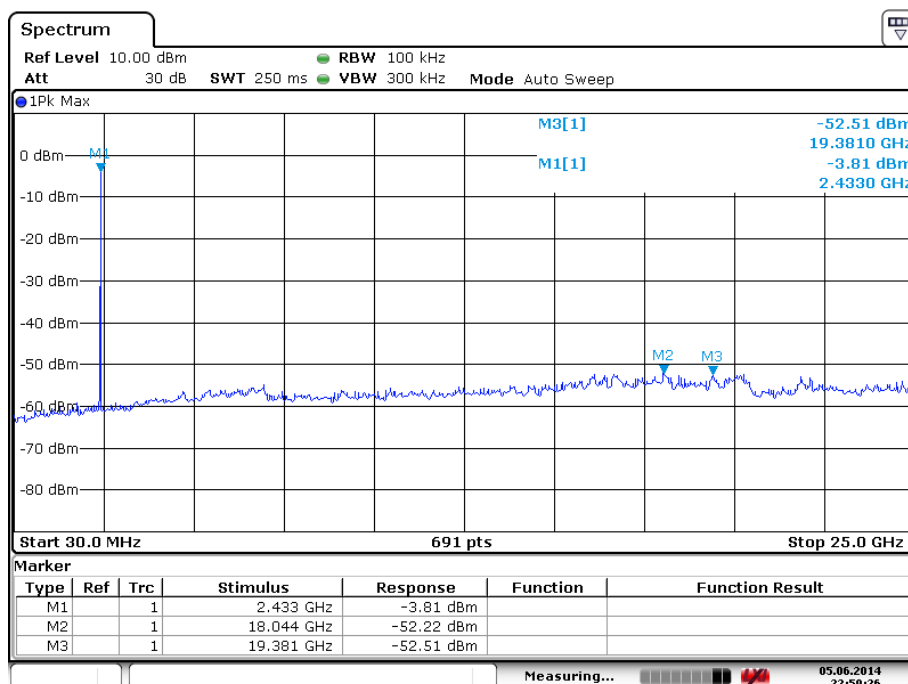
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of EDR mode

Low Channel



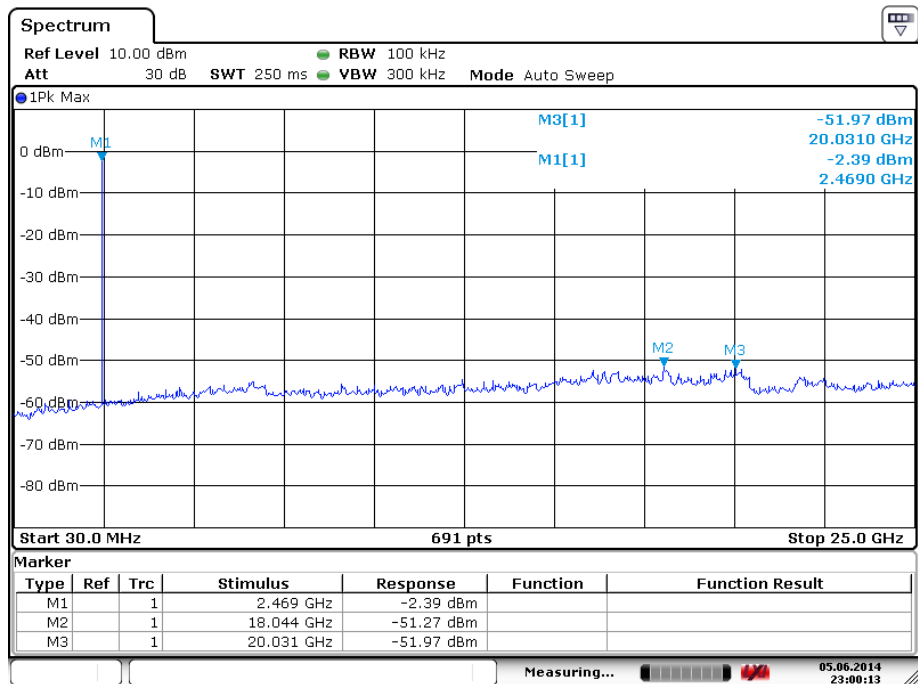
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Middle Channel

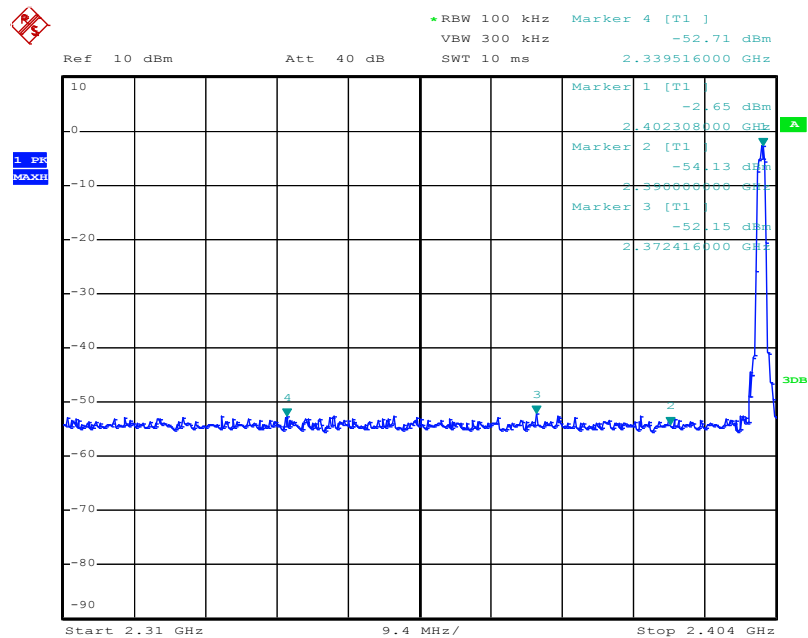


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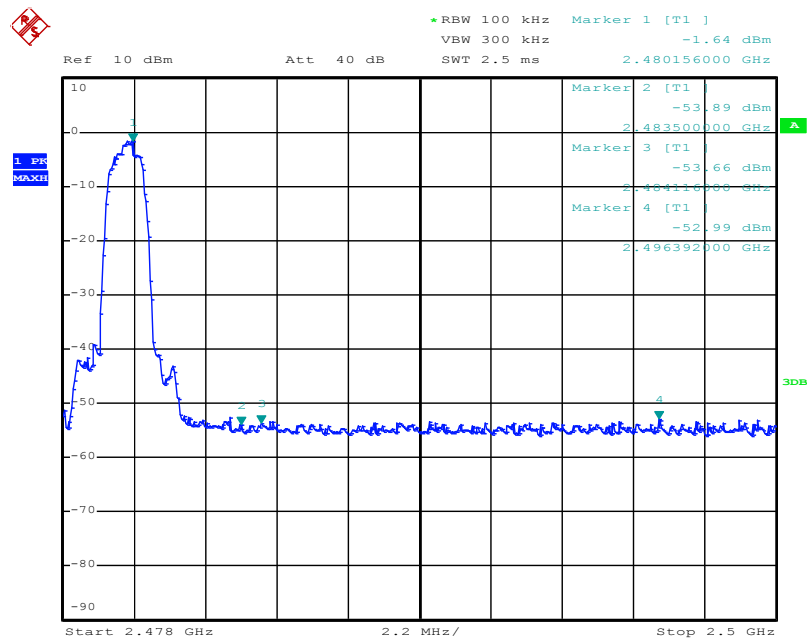
High Channel



Date: 5.JUN.2014 23:00:13

Band Edge


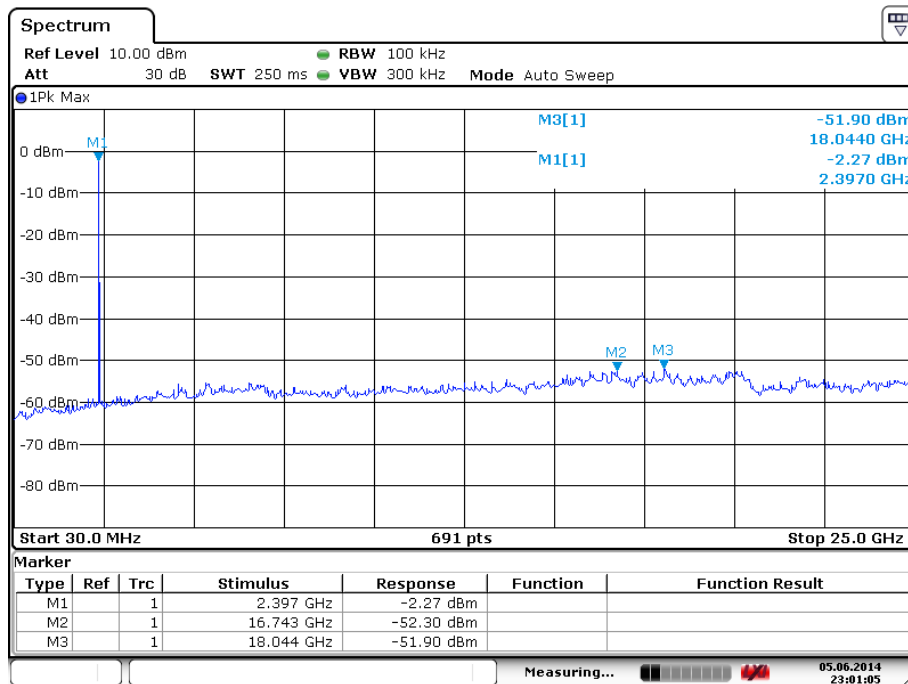
Date: 29.MAY.2014 17:53:52



Date: 29.MAY.2014 17:54:56

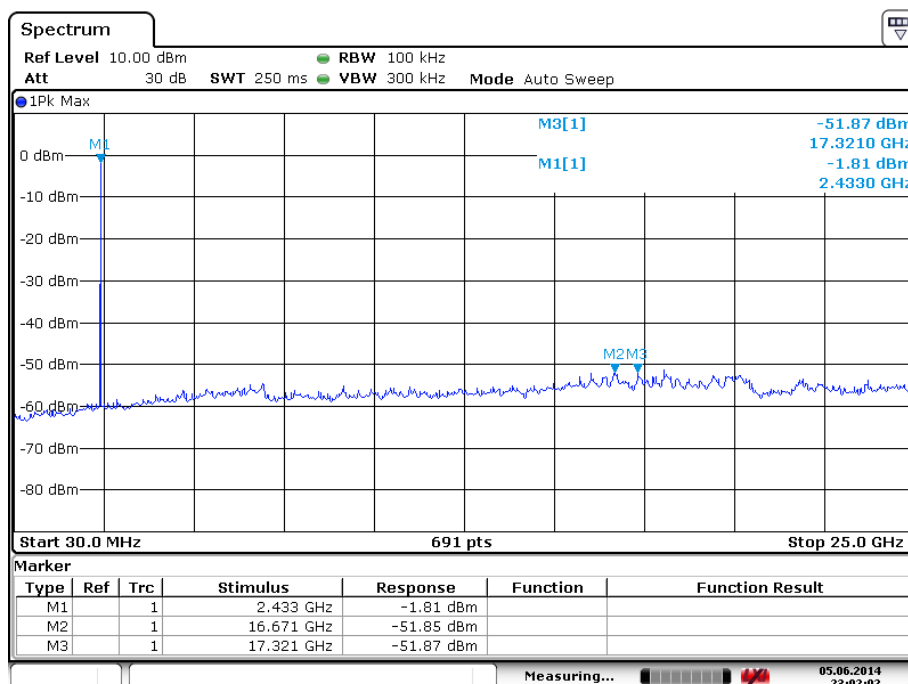
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of LE mode

Low Channel



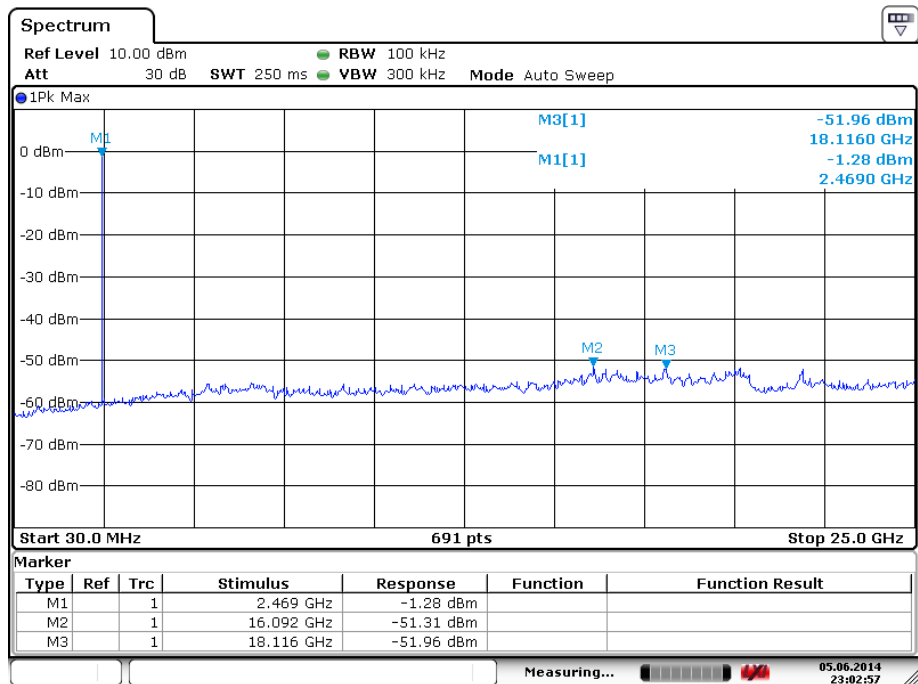
Date: 5.JUN.2014 23:01:06

Middle Channel

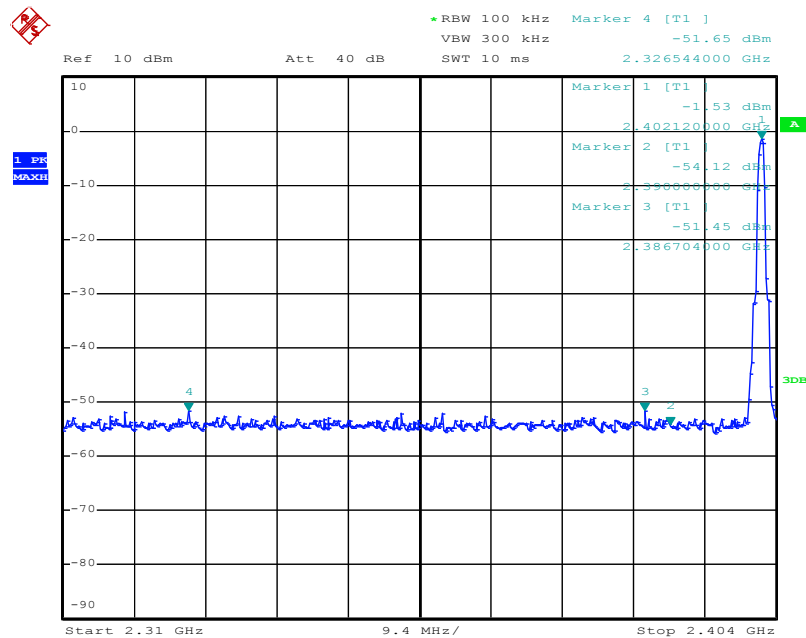


Date: 5.JUN.2014 23:02:03

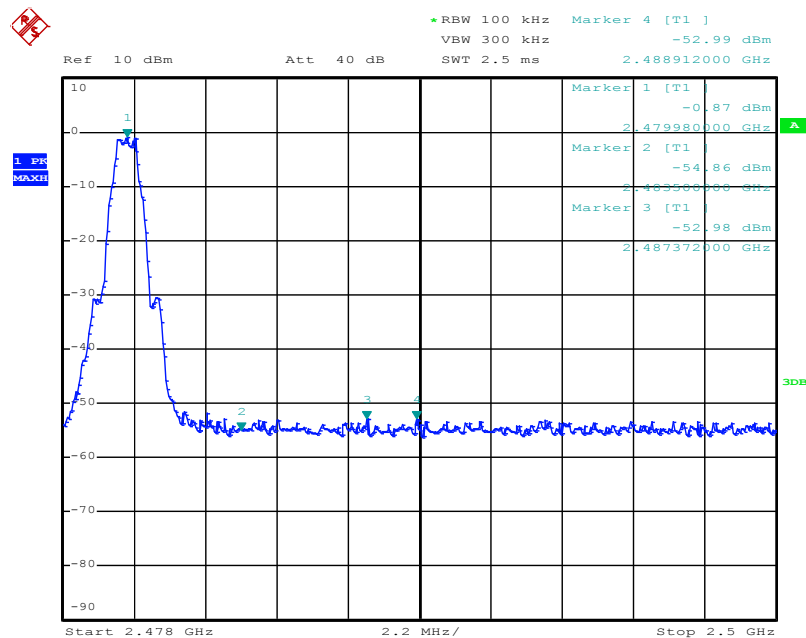
High Channel



Date: 5.JUN.2014 23:02:58

Band Edge


Date: 29.MAY.2014 19:15:42



Date: 29.MAY.2014 19:16:31

Mode	Channel (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Conclusion
Bluetooth LE mode	2402	-13.89	8	Pass
	2440	-13.43	8	Pass
	2480	-13.03	8	Pass

Prüfbericht - Nr.: 17040437 001

Test Report No.

Seite 28 von 92

Page 28 of 92

5.1.7 Spurious Emission**RESULT:****Pass**

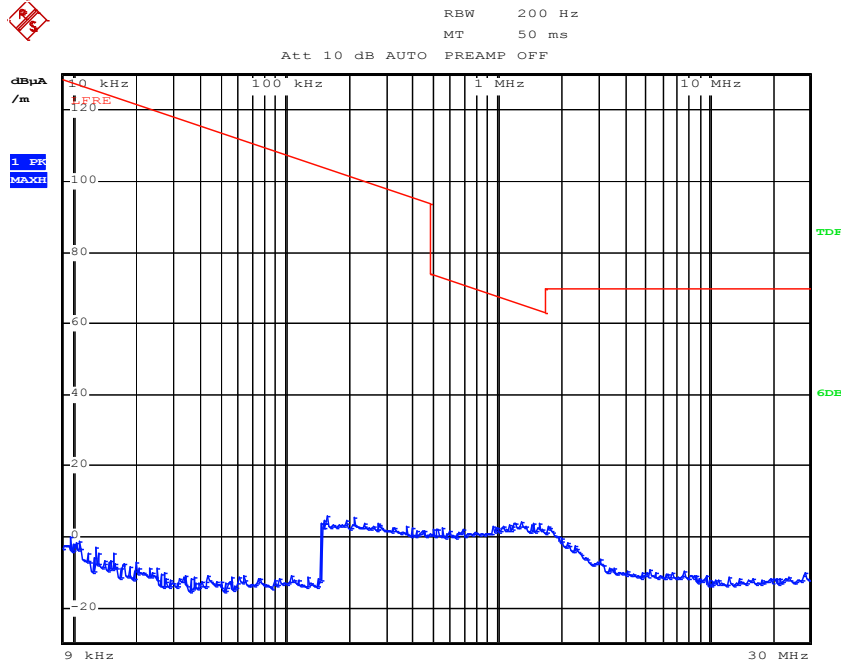
Date of testing	:	2014-06-07
Test standard	:	FCC part 15.247(d) RSS-210 Clause 2.2
Basic standard	:	ANSI C63.4: 2003 Clause 11 of KDB 558074 v03r01
Limits	:	FCC part 15.209(a)
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a, A.2.a
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

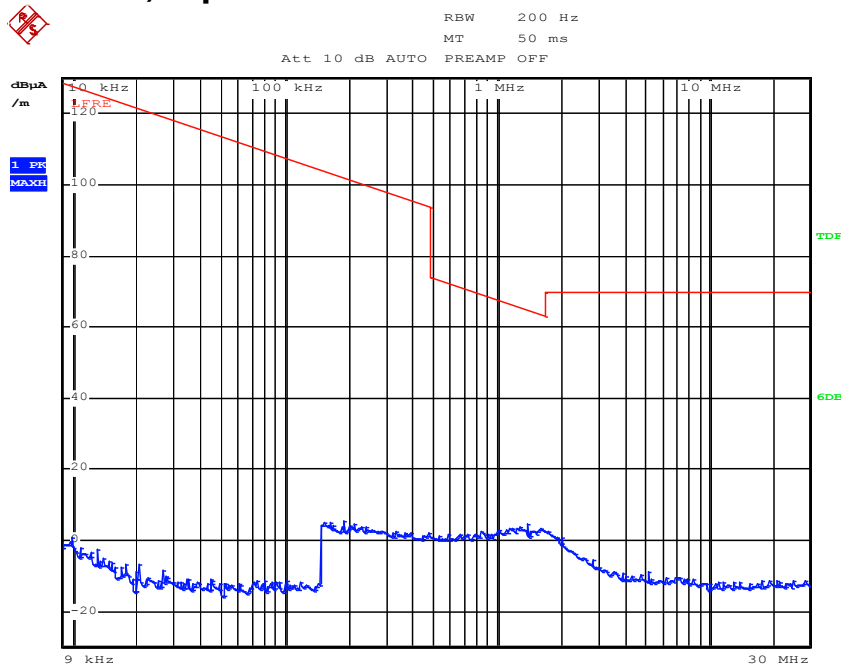
For details refer to following test plot.

Test Plot of Spurious Emission of transmitting of Bluetooth BDR mode Low channel, X polarization:



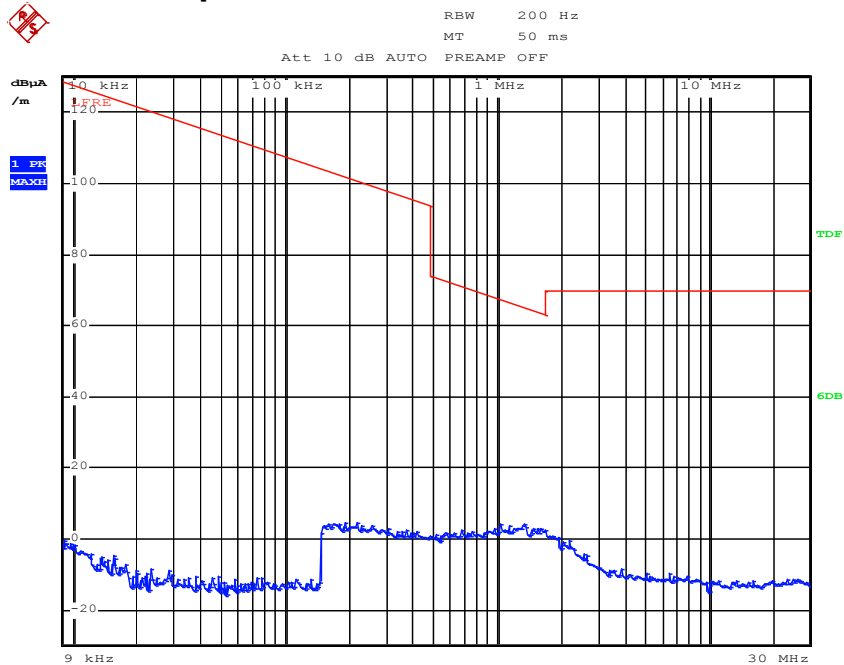
Date: 5.JUN.2014 08:49:57

Low channel, Y polarization:



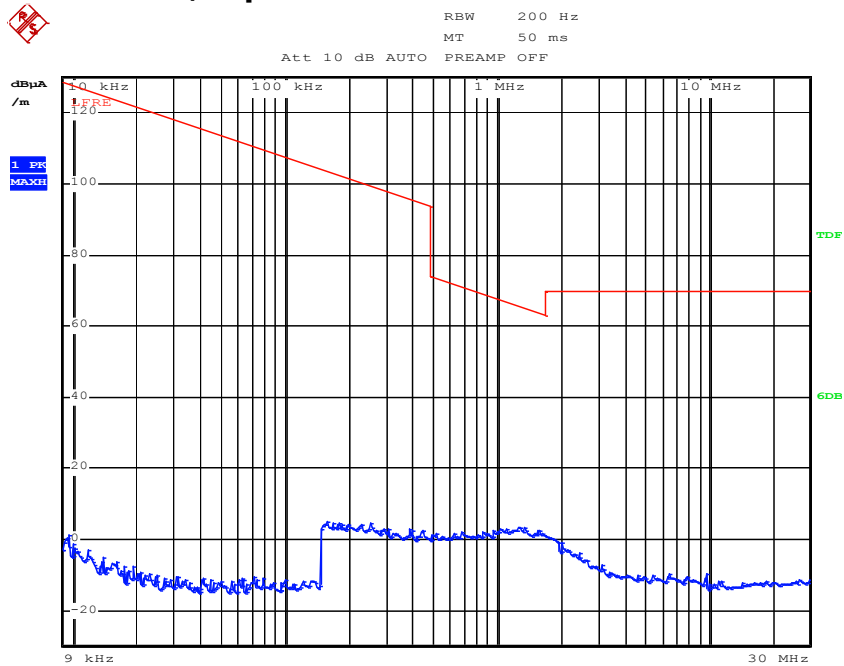
Date: 5.JUN.2014 08:48:00

Low channel, Z polarization:



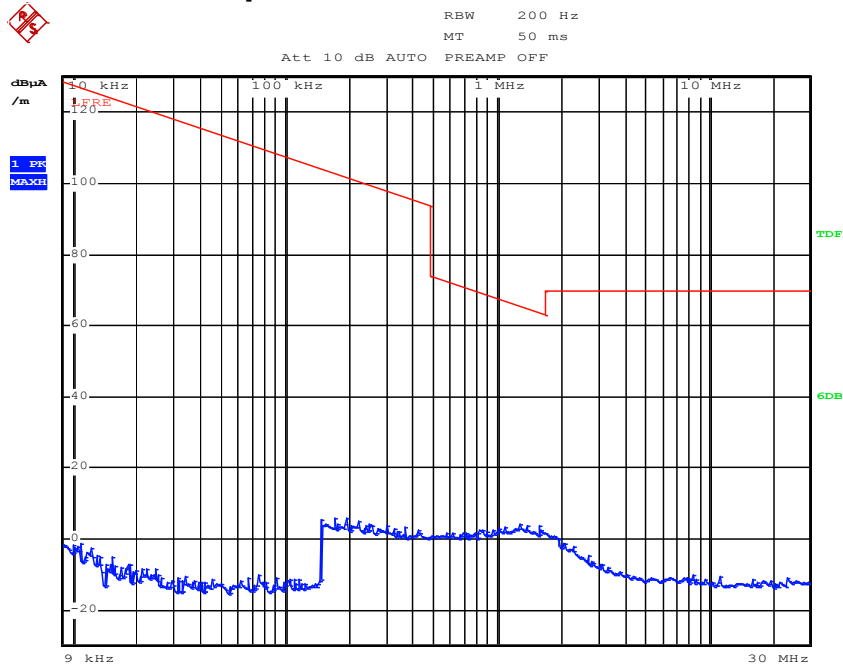
Date: 5.JUN.2014 08:51:52

Middle channel, X polarization:



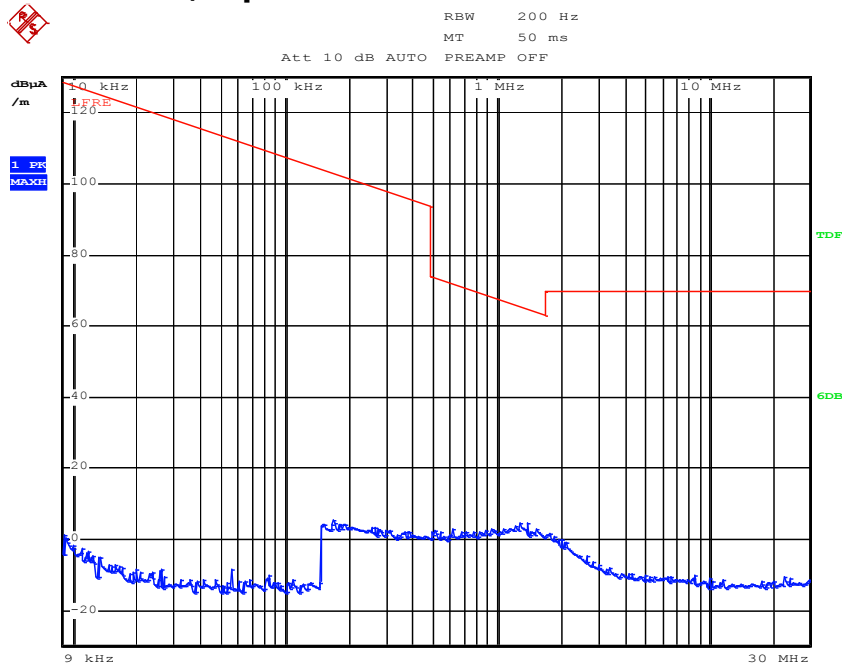
Date: 5.JUN.2014 08:57:38

Middle channel, Y polarization:



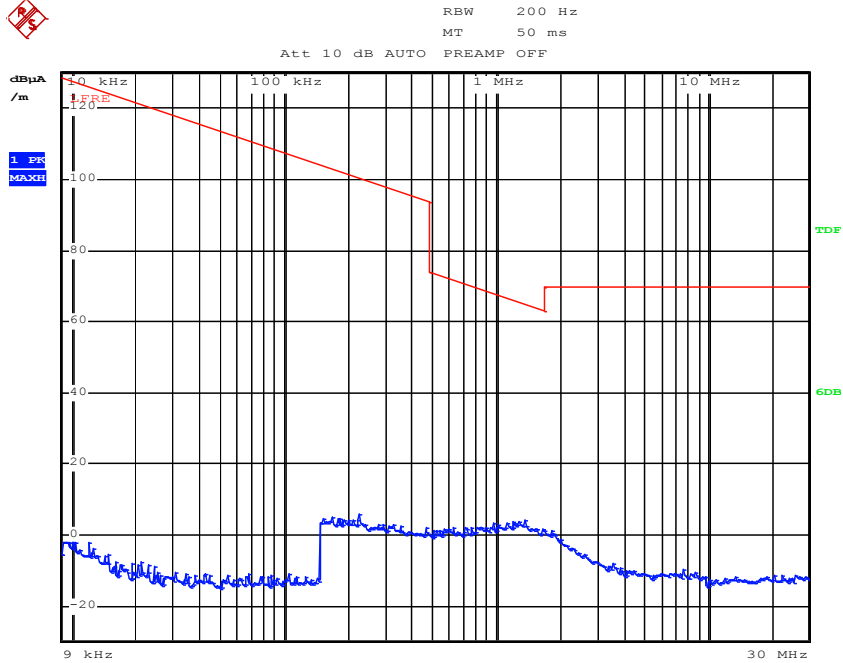
Date: 5.JUN.2014 08:53:47

Middle channel, Z polarization:



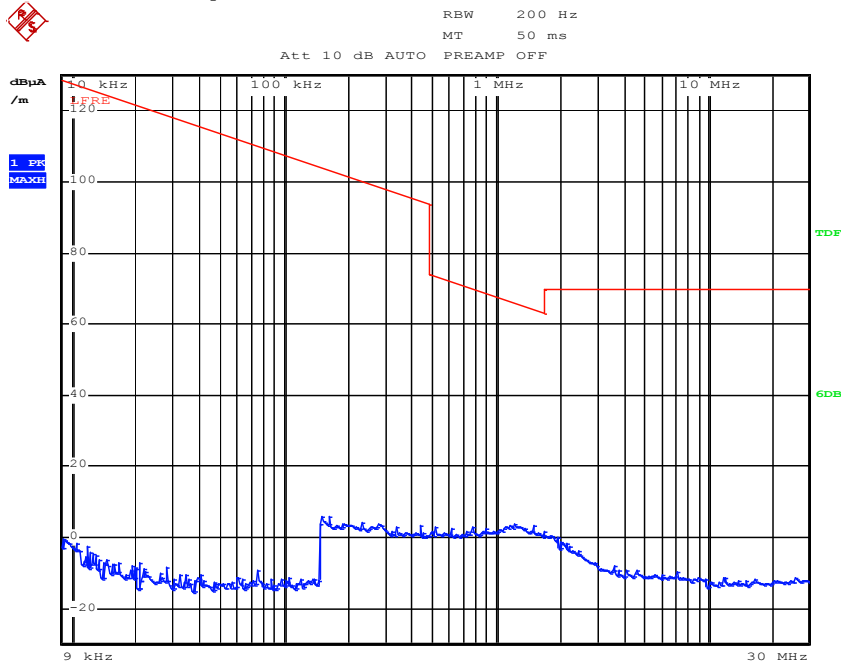
Date: 5.JUN.2014 08:55:43

High channel, X polarization:



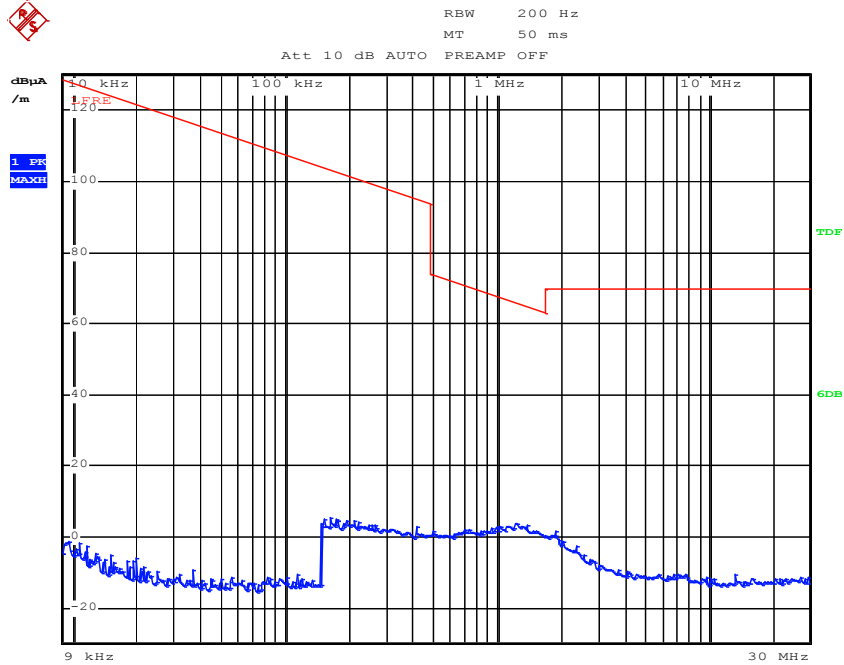
Date: 5.JUN.2014 09:03:23

High channel, Y polarization:



Date: 5.JUN.2014 08:59:32

High channel, Z polarization:



Date: 5.JUN.2014 09:01:28


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Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: PZ #425

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2014/06/07

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Tablet

Engineer Signature: PEI

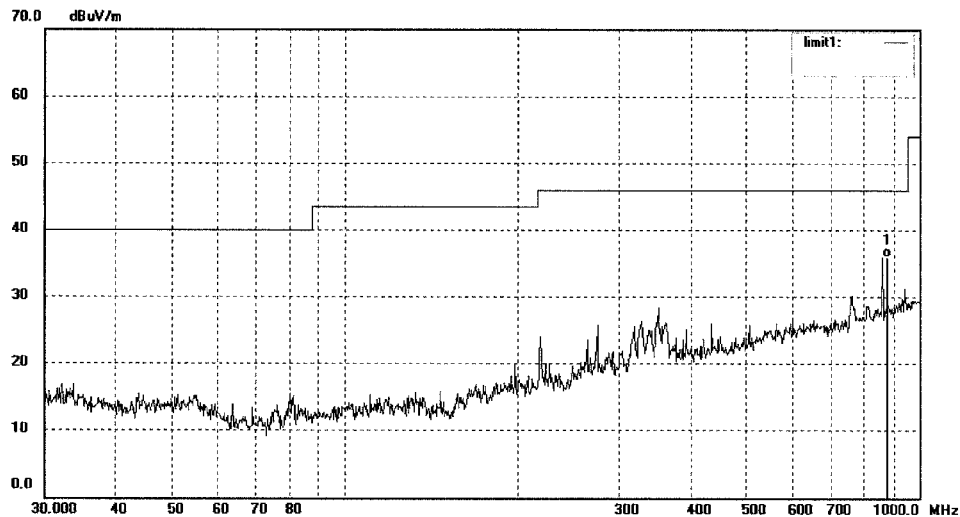
Mode: TX 2402MHz

Distance:

Model: NS-15AT10

Manufacturer: Keen High

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	875.9420	34.84	1.11	35.95	46.00	-10.05	QP			


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Fax: +86-0755-26503396

Job No.: PZ #424

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2402MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Vertical

Power Source: AC 120V/60Hz

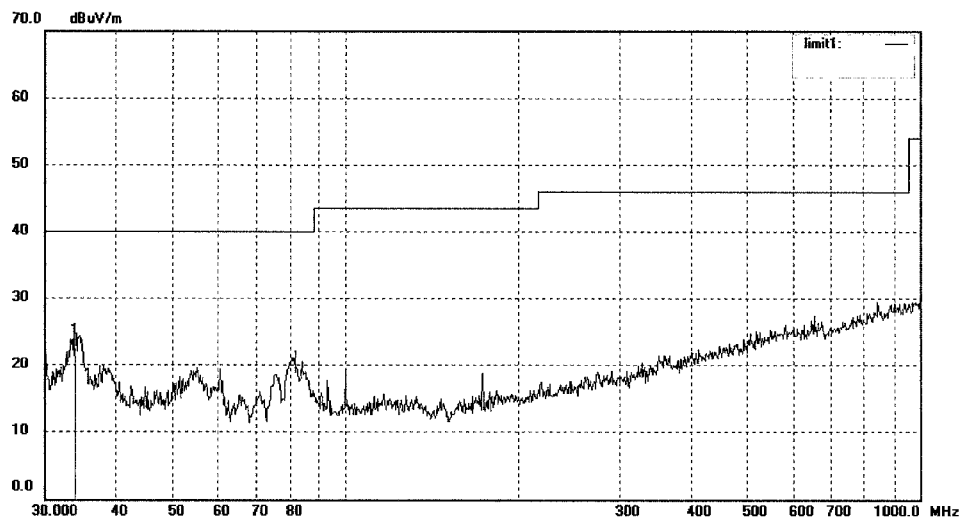
Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.8067	32.91	-10.30	22.61	40.00	-17.39	QP			

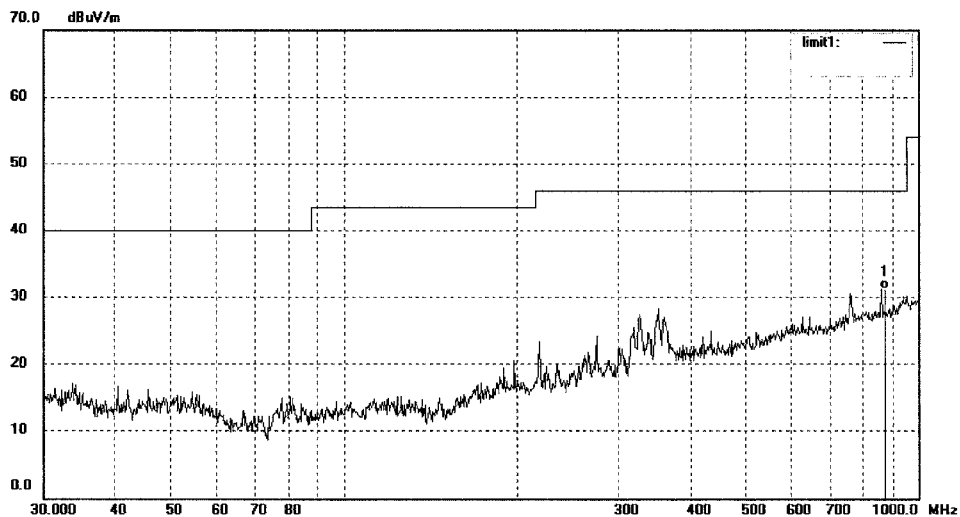

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Site: 2# Chamber

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Job No.: PZ #426	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/06/07
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Tablet	Engineer Signature: PEI
Mode: TX 2441MHz	Distance:
Model: NS-15AT10	
Manufacturer: Keen High	
Note: Bluetooth	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	875.9609	30.21	1.11	31.32	46.00	-14.68	QP			


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Job No.: PZ #427

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2441MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Vertical

Power Source: AC 120V/60Hz

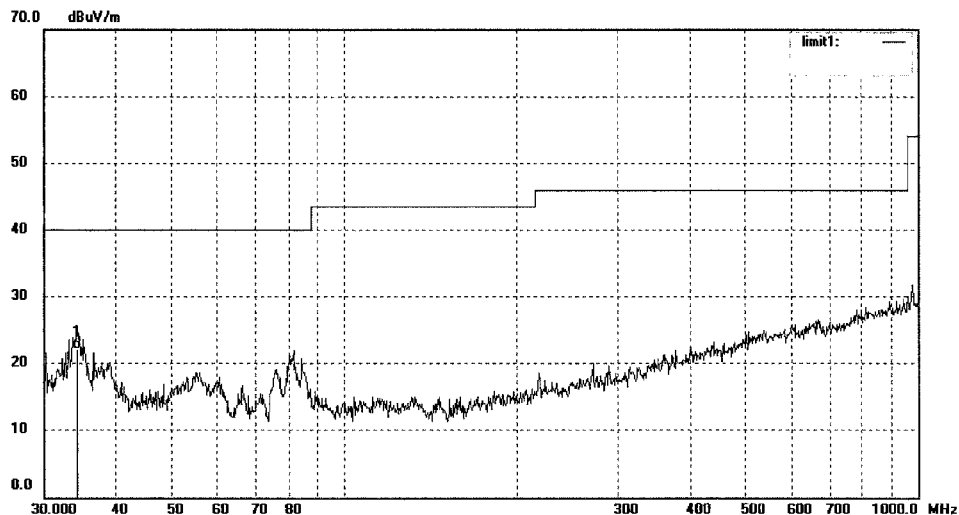
Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.2852	32.43	-10.35	22.08	40.00	-17.92	QP			


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Job No.: PZ #429

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2014/06/07

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Tablet

Engineer Signature: PEI

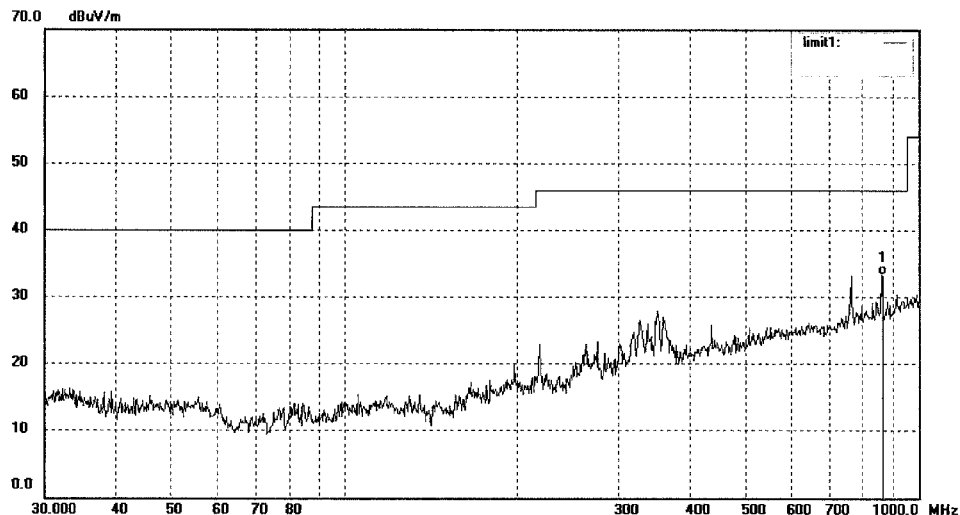
Mode: TX 2480MHz

Distance:

Model: NS-15AT10

Manufacturer: Keen High

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	875.9422	32.22	1.11	33.33	46.00	-12.67	QP			


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Job No.: PZ #428

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2014/06/07

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Tablet

Engineer Signature: PEI

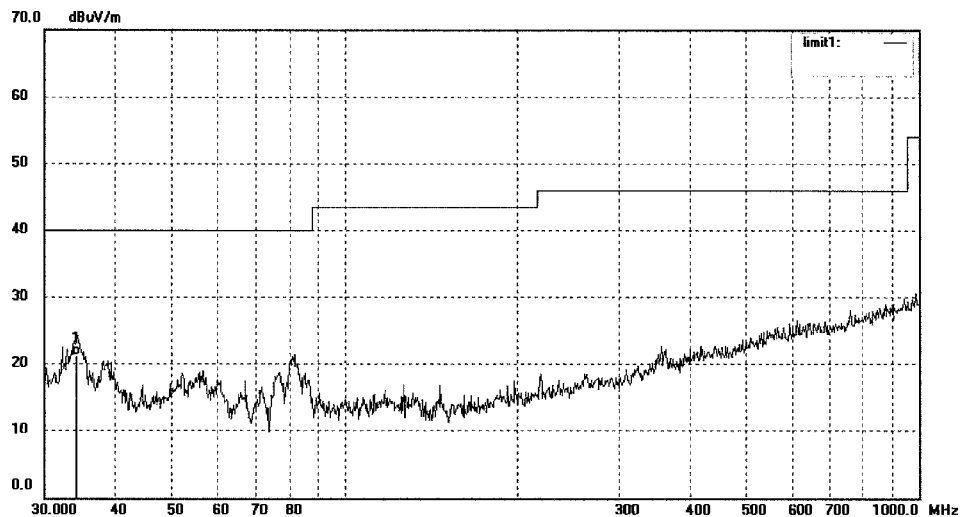
Mode: TX 2480MHz

Distance:

Model: NS-15AT10

Manufacturer: Keen High

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.1649	31.55	-10.33	21.22	40.00	-18.78	QP			


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Job No.: PZ #165

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2402MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Horizontal

Power Source: AC 120V/60Hz

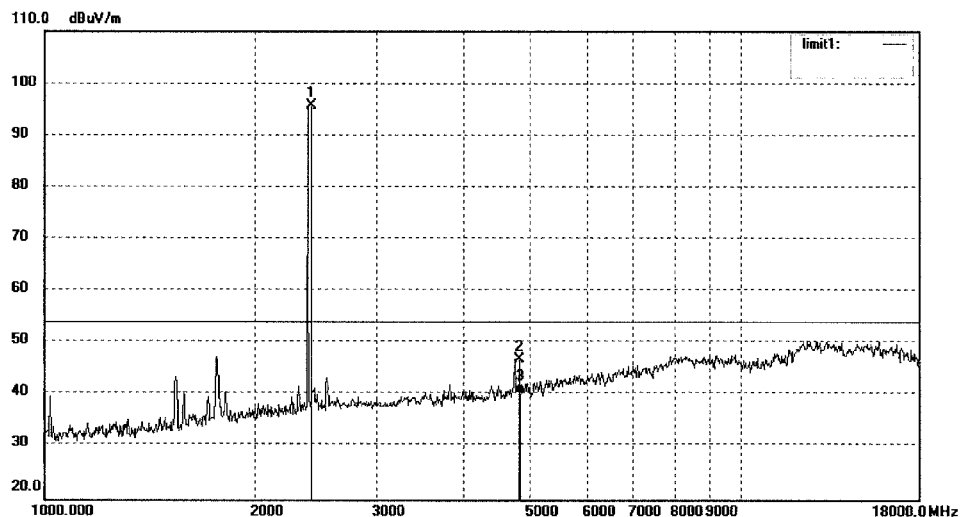
Date: 14/05/29/

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	103.11	-7.45	95.66	/	/	peak			
2	4804.033	47.29	-0.30	46.99	74.00	-27.01	peak			
3	4804.033	40.58	-0.30	40.28	54.00	-13.72	AVG			


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Job No.: PZ #164

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/05/29/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Tablet

Engineer Signature: PEI

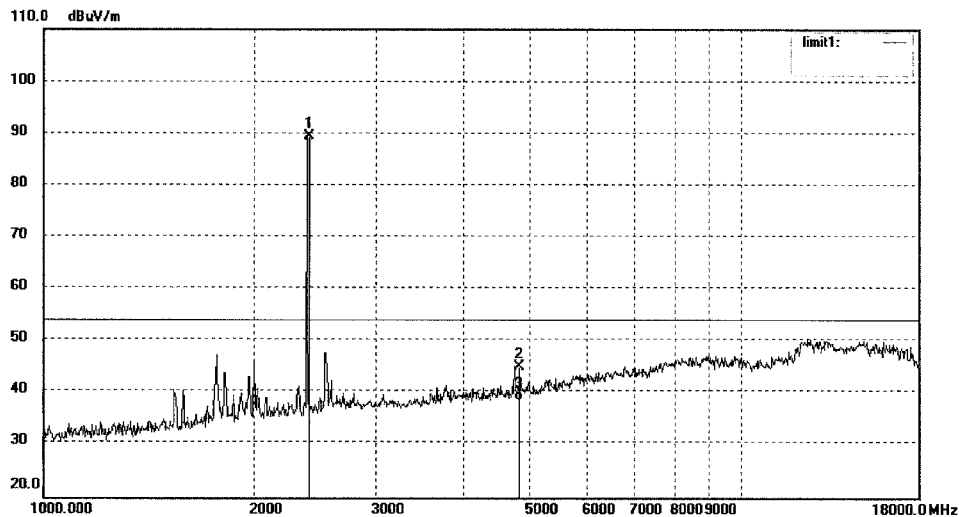
Mode: TX 2402MHz

Distance:

Model: NS-15AT10

Manufacturer: Keen High

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	96.77	-7.45	89.32	/	/	peak			
2	4804.025	45.29	-0.30	44.99	74.00	-29.01	peak			
3	4804.025	38.75	-0.30	38.45	54.00	-15.55	AVG			


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Job No.: PZ #169

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2441MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Horizontal

Power Source: AC 120V/60Hz

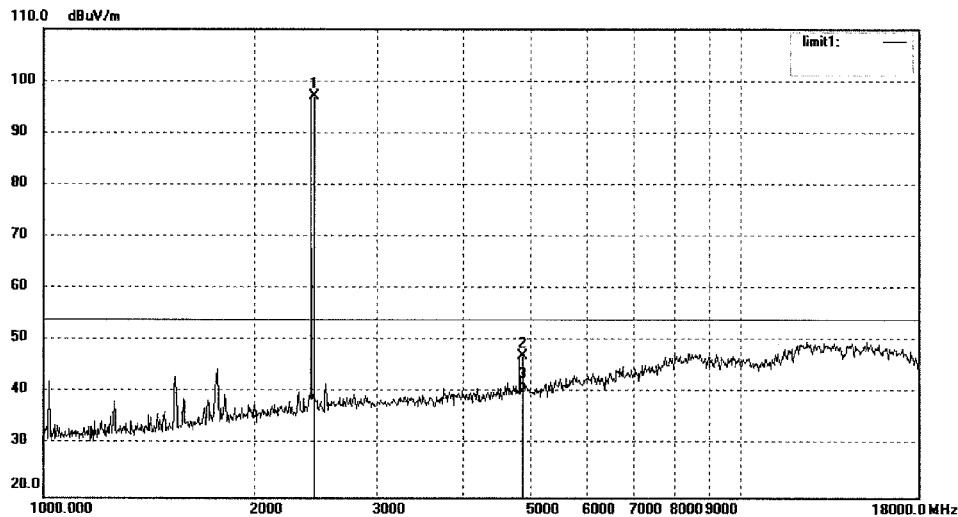
Date: 14/05/29/

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	104.37	-7.35	97.02	/	/	peak			
2	4882.024	46.90	0.14	47.04	74.00	-26.96	peak			
3	4882.024	40.28	0.14	40.42	54.00	-13.58	AVG			


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Fax:+86-0755-26503396

Job No.: PZ #168

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2441MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Vertical

Power Source: AC 120V/60Hz

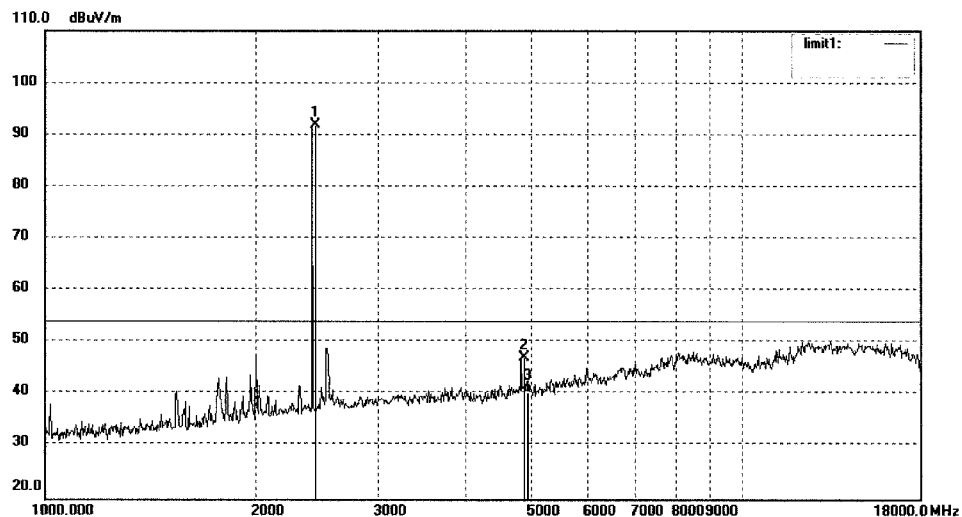
Date: 14/05/29/

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	99.24	-7.35	91.89	/	/	peak			
2	4882.025	47.07	0.14	47.21	74.00	-26.79	peak			
3	4882.025	40.15	0.14	40.29	54.00	-13.71	AVG			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: PZ #170

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2480MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Horizontal

Power Source: AC 120V/60Hz

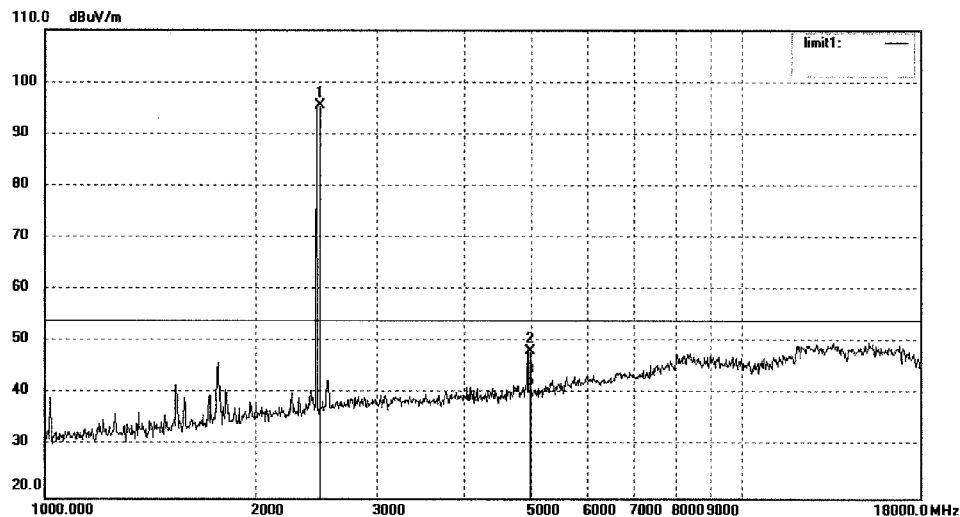
Date: 14/05/29/

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	102.90	-7.37	95.53	/	/	peak			
2	4960.040	47.64	0.52	48.16	74.00	-25.84	peak			
3	4960.040	40.86	0.52	41.38	54.00	-12.62	AVG			


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Site: 2# Chamber

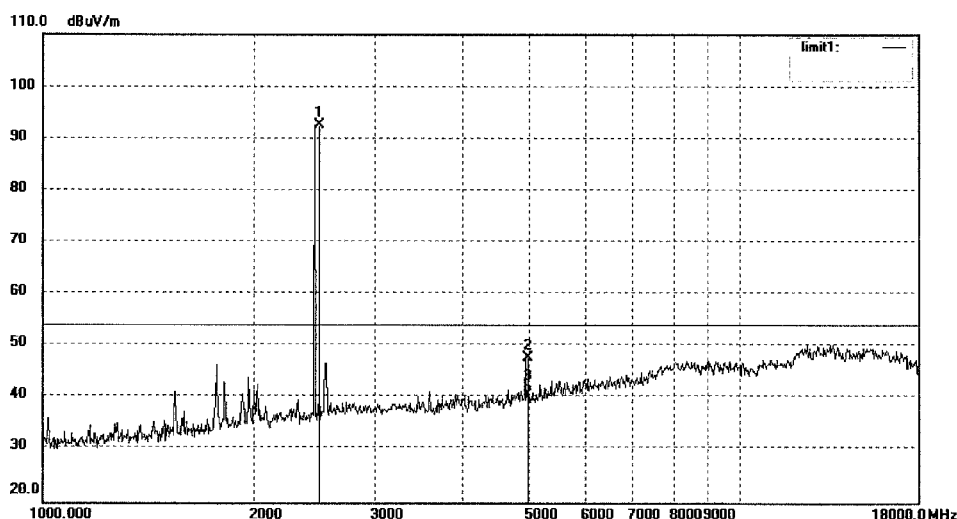
Tel:+86-0755-26503290

Fax:+86-0755-26503396

 Job No.: PZ #171
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Tablet
 Mode: TX 2480MHz
 Model: NS-15AT10
 Manufacturer: Keen High

 Polarization: Vertical
 Power Source: AC 120V/60Hz
 Date: 14/05/29/
 Time:
 Engineer Signature: PEI
 Distance:

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	99.88	-7.37	92.51	/	/	peak			
2	4960.038	47.36	0.52	47.88	74.00	-26.12	peak			
3	4960.038	40.44	0.52	40.96	54.00	-13.04	AVG			

Prüfbericht - Nr.: 17040437 001
Test Report No.
Seite 46 von 92
Page 46 of 92

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Job No.: PZ #442

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2014/06/07

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Tablet

Engineer Signature: PEI

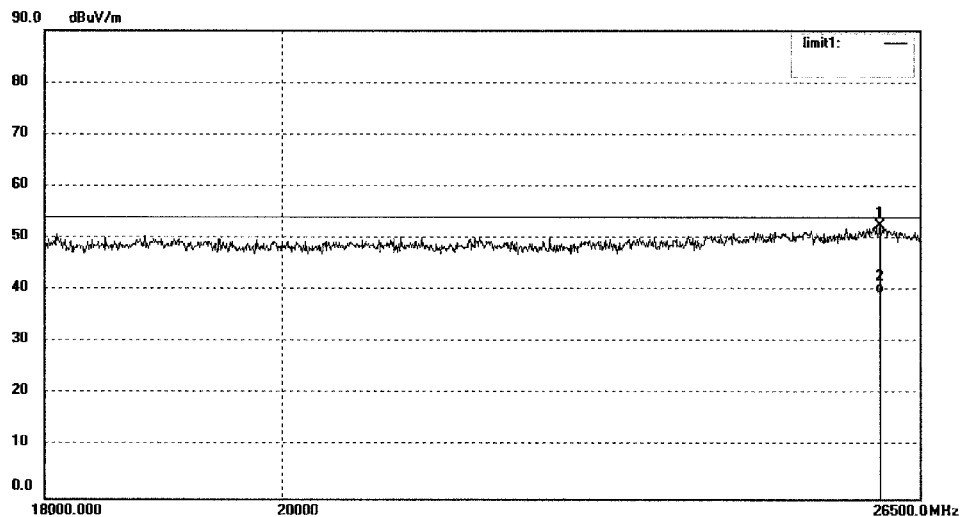
Mode: TX 2402MHz

Distance:

Model: NS-15AT10

Manufacturer: Keen High

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26041.856	33.75	18.74	52.49	74.00	-21.51	peak			
2	26041.856	20.67	18.74	39.41	54.00	-14.59	AVG			


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Job No.: PZ #441

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2402MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Vertical

Power Source: AC 120V/60Hz

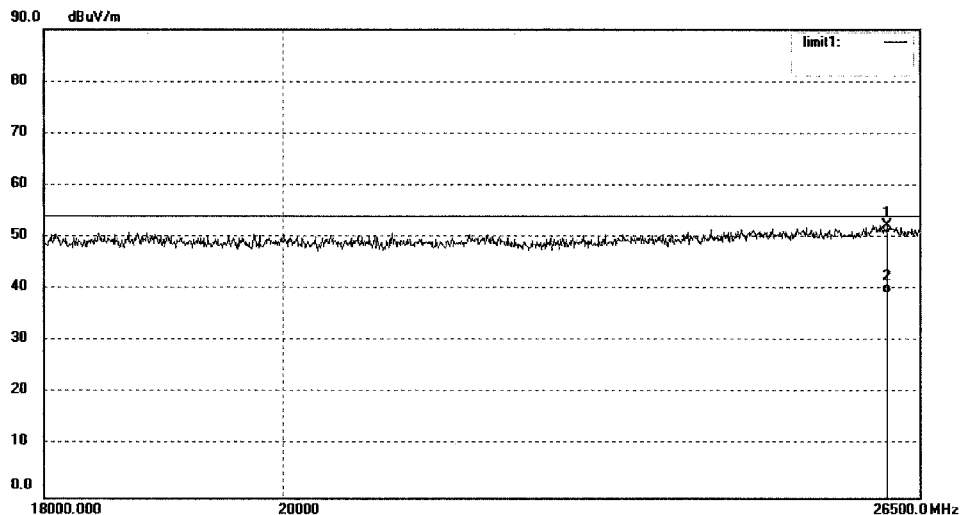
Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26133.258	33.63	18.77	52.40	74.00	-21.60	peak			
2	26133.258	20.57	18.77	39.34	54.00	-14.66	AVG			


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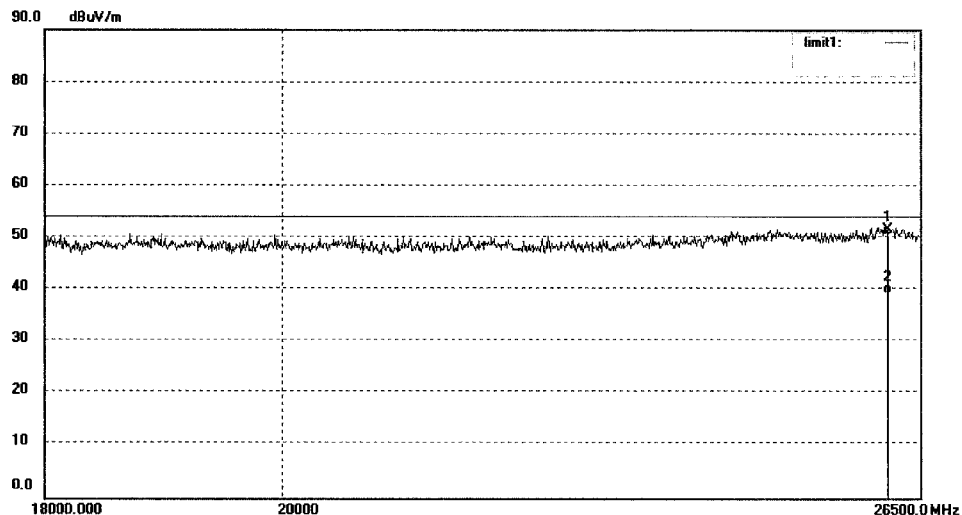
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #443	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/06/07
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Tablet	Engineer Signature: PEI
Mode: TX 2441MHz	Distance:
Model: NS-15AT10	
Manufacturer: Keen High	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26122.720	32.98	18.77	51.75	74.00	-22.25	peak			
2	26122.720	20.60	18.77	39.37	54.00	-14.63	AVG			

Prüfbericht - Nr.: 17040437 001
Test Report No.
Seite 49 von 92
Page 49 of 92

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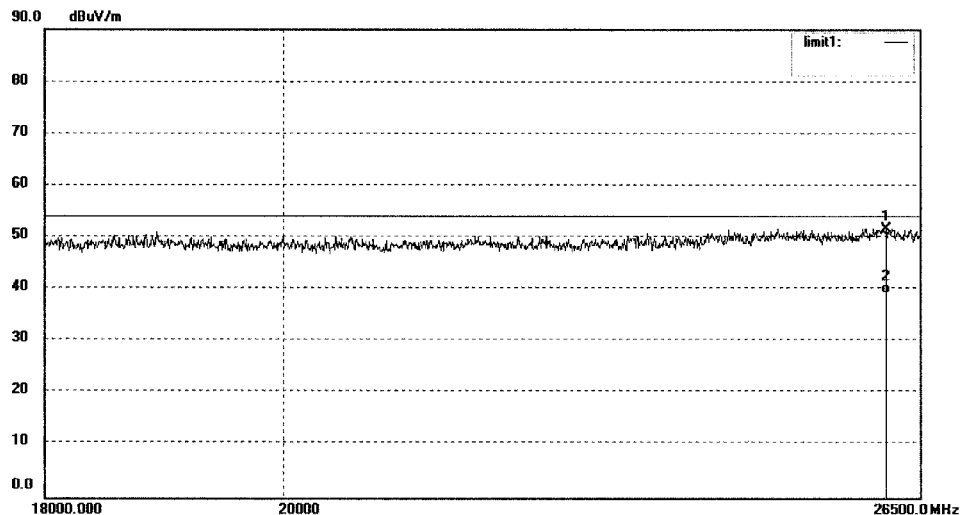
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #444	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/06/07
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Tablet	Engineer Signature: PEI
Mode: TX 2441MHz	Distance:
Model: NS-15AT10	
Manufacturer: Keen High	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26112.599	32.90	18.76	51.66	74.00	-22.34	peak			
2	26112.599	20.49	18.76	39.25	54.00	-14.75	AVG			

Prüfbericht - Nr.: 17040437 001
Test Report No.
Seite 50 von 92
Page 50 of 92

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Job No.: PZ #446

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2480MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Horizontal

Power Source: AC 120V/60Hz

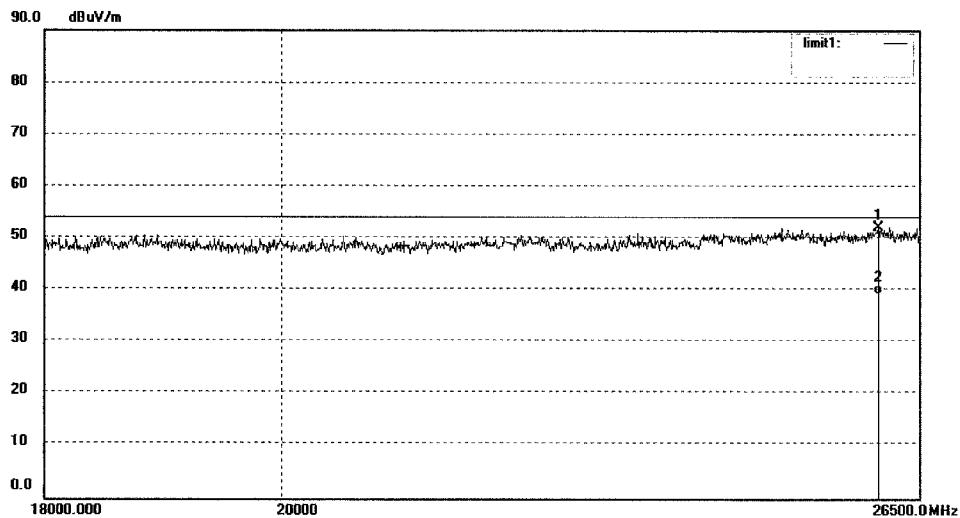
Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26031.765	33.37	18.74	52.11	74.00	-21.89	peak			
2	26031.765	20.44	18.74	39.18	54.00	-14.82	QP			


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Fax: +86-0755-26503396

Job No.: PZ #445

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2014/06/07

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Tablet

Engineer Signature: PEI

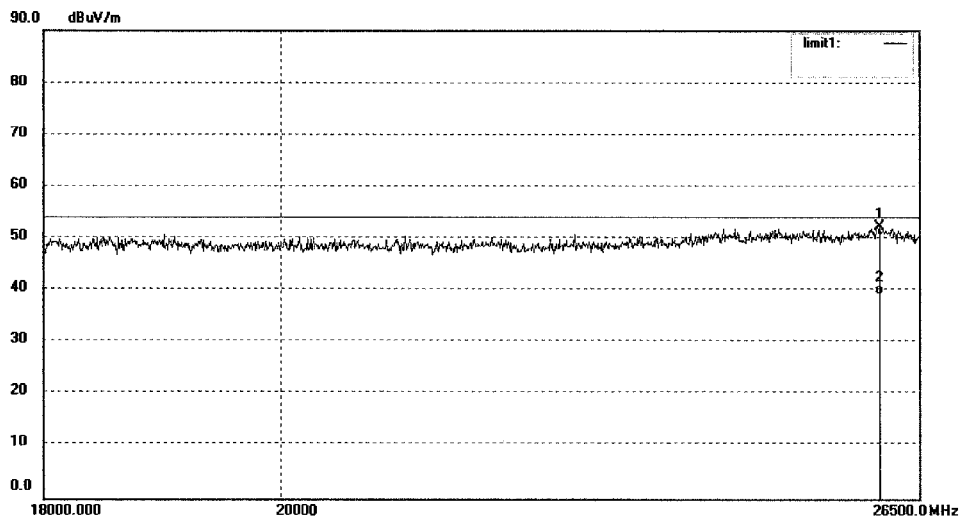
Mode: TX 2480MHz

Distance:

Model: NS-15AT10

Manufacturer: Keen High

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26051.950	33.46	18.74	52.20	74.00	-21.80	peak			
2	26051.950	20.55	18.74	39.29	54.00	-14.71	AVG			

Prüfbericht - Nr.: 17040437 001
Test Report No.
Seite 52 von 92
Page 52 of 92

Test Plot of Frequency Band Edge of Bluetooth BDR mode


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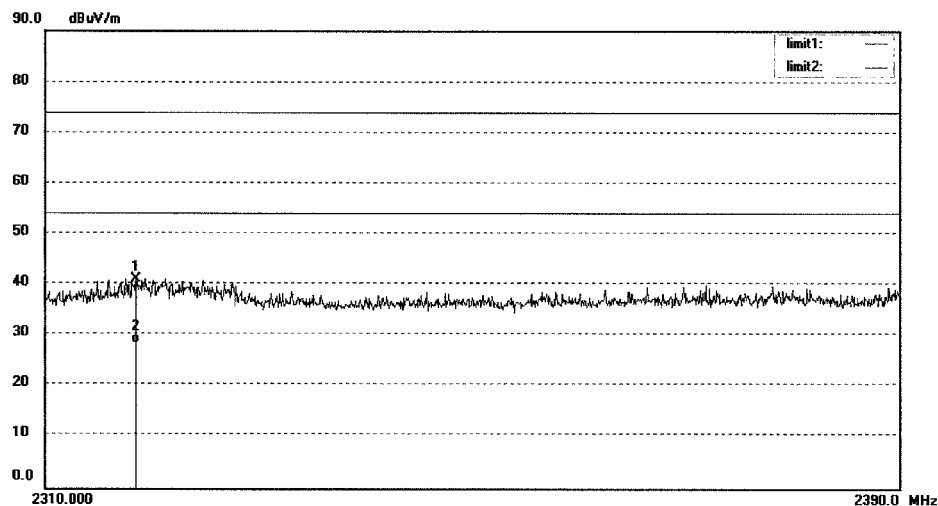
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #166
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Tablet
Mode: TX 2402MHz
Model: NS-15AT10
Manufacturer: Keen High

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 14/05/29/
Time:
Engineer Signature: PEI
Distance:

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2318.368	48.96	-7.80	41.16	74.00	-32.84	peak			
2	2318.368	36.20	-7.80	28.40	54.00	-25.60	AVG			


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Site: 2# Chamber

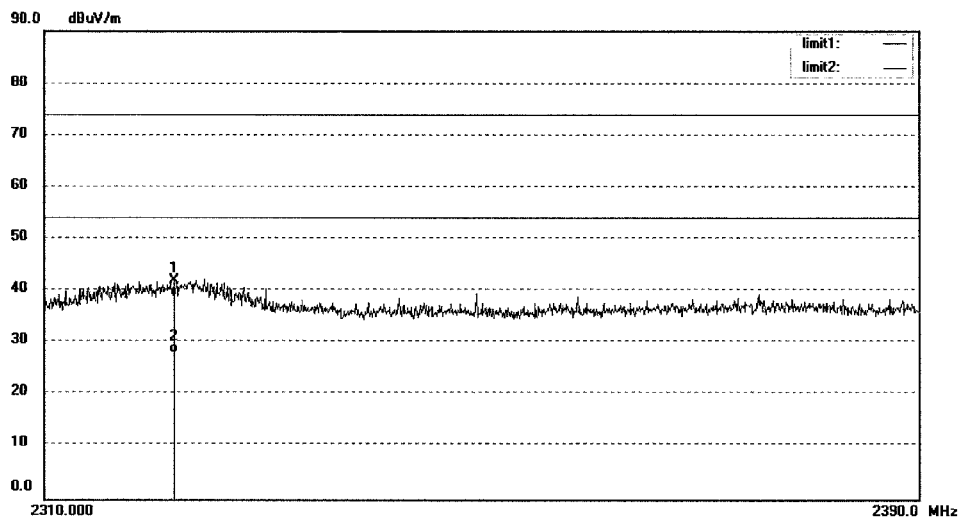
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #167
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Tablet
Mode: TX 2402MHz
Model: NS-15AT10
Manufacturer: Keen High

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 14/05/29/
Time:
Engineer Signature: PEI
Distance:

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2321.845	49.85	-7.81	42.04	74.00	-31.96	peak			
2	2321.845	35.91	-7.81	28.10	54.00	-25.90	AVG			


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Site: 2# Chamber

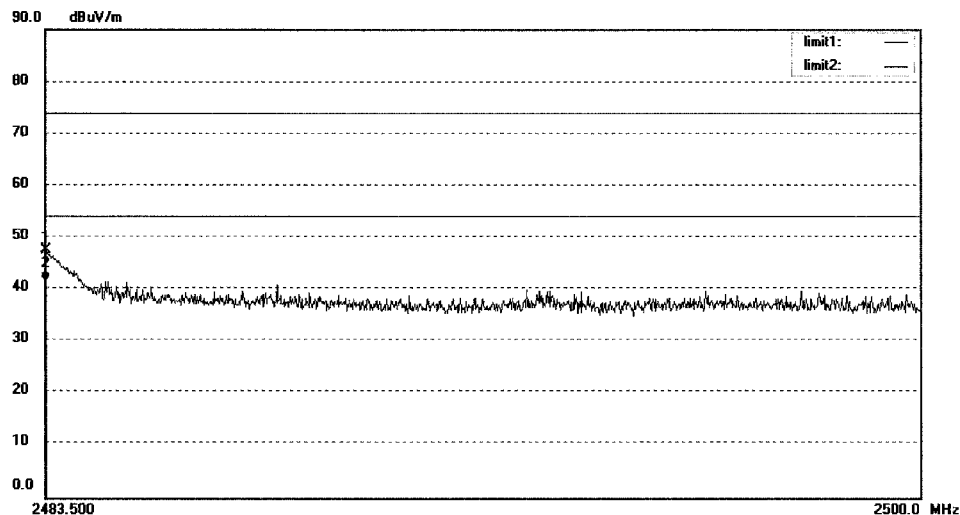
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #179
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Tablet
Mode: TX 2480MHz
Model: NS-15AT10
Manufacturer: Keen High

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 14/05/29/
Time:
Engineer Signature: PEI
Distance:

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	54.91	-7.37	47.54	74.00	-26.46	peak			
2	2483.500	49.17	-7.37	41.80	54.00	-12.20	AVG			


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Site: 2# Chamber

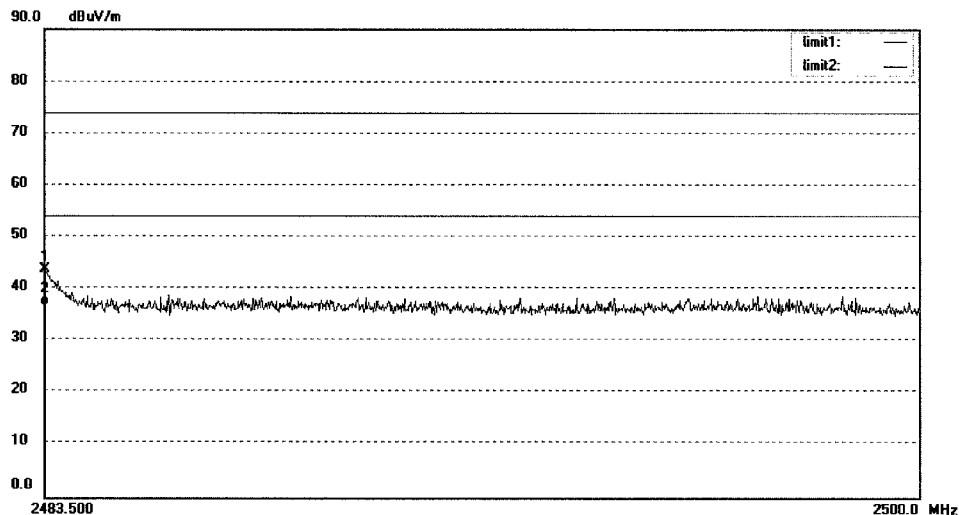
Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: PZ #178
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Tablet
Mode: TX 2480MHz
Model: NS-15AT10
Manufacturer: Keen High

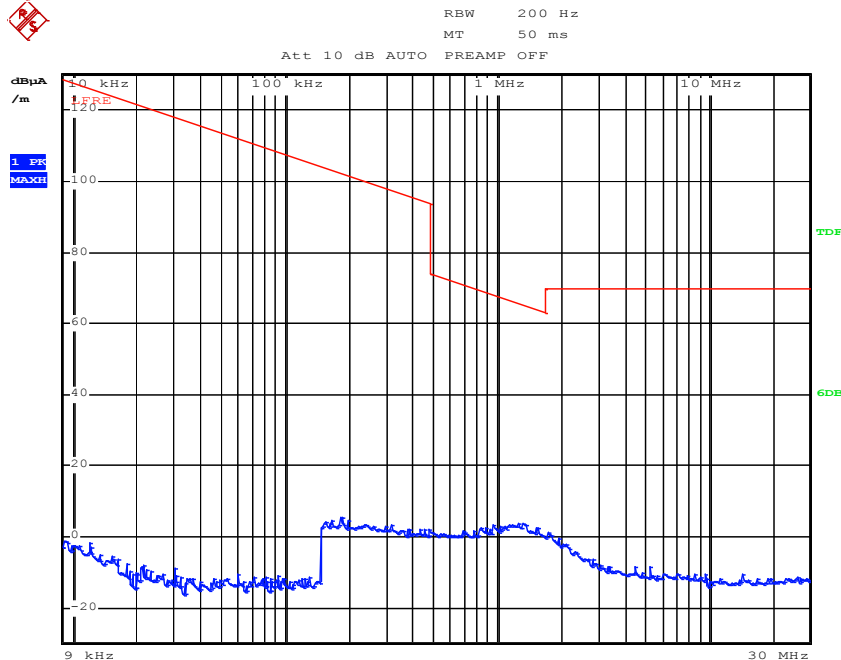
Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 14/05/29/
Time:
Engineer Signature: PEI
Distance:

Note: Bluetooth



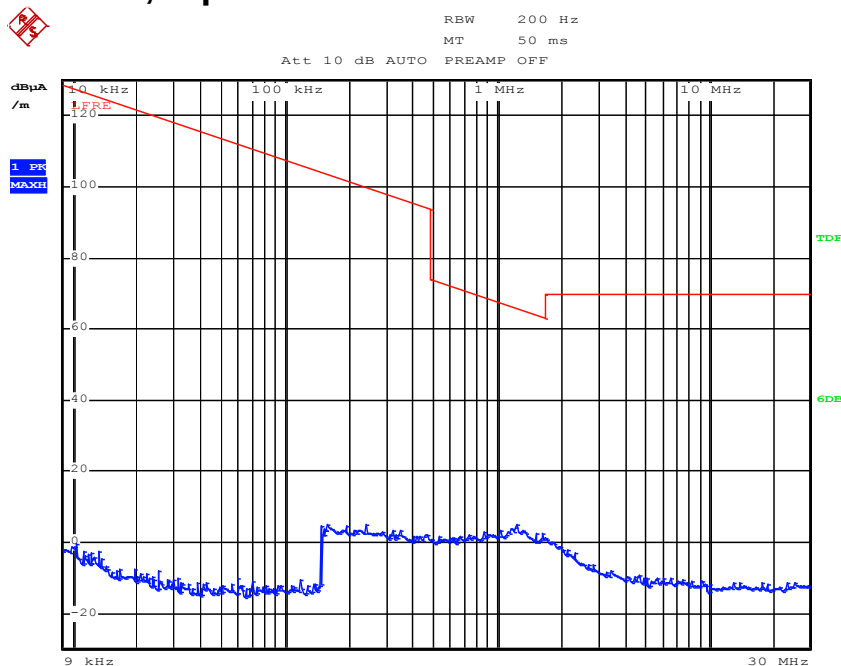
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	51.10	-7.37	43.73	74.00	-30.27	peak			
2	2483.500	44.27	-7.37	36.90	54.00	-17.10	AVG			

Test Plot of Spurious Emission of transmitting of Bluetooth LE mode Low channel, X polarization:



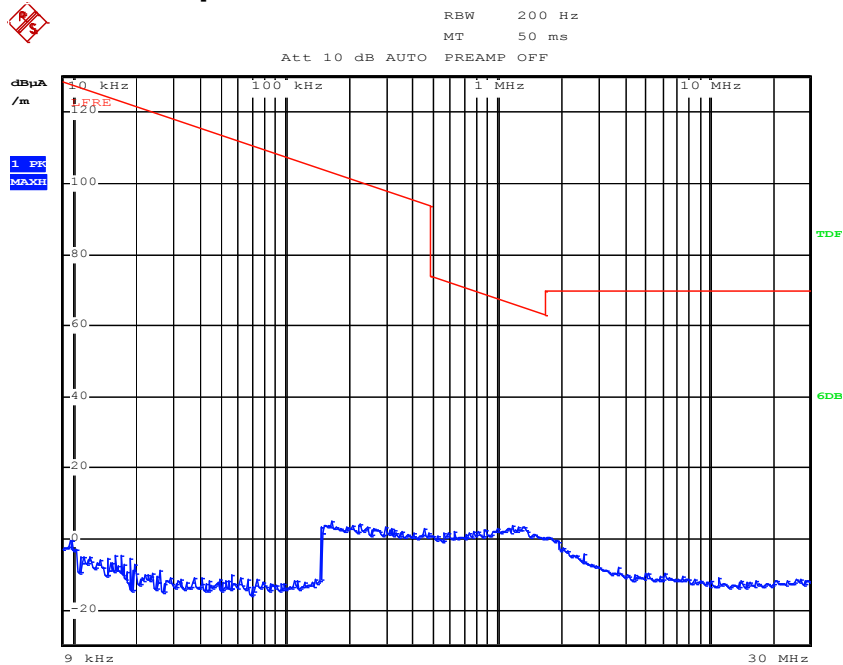
Date: 5.JUN.2014 09:05:20

Low channel, Y polarization:



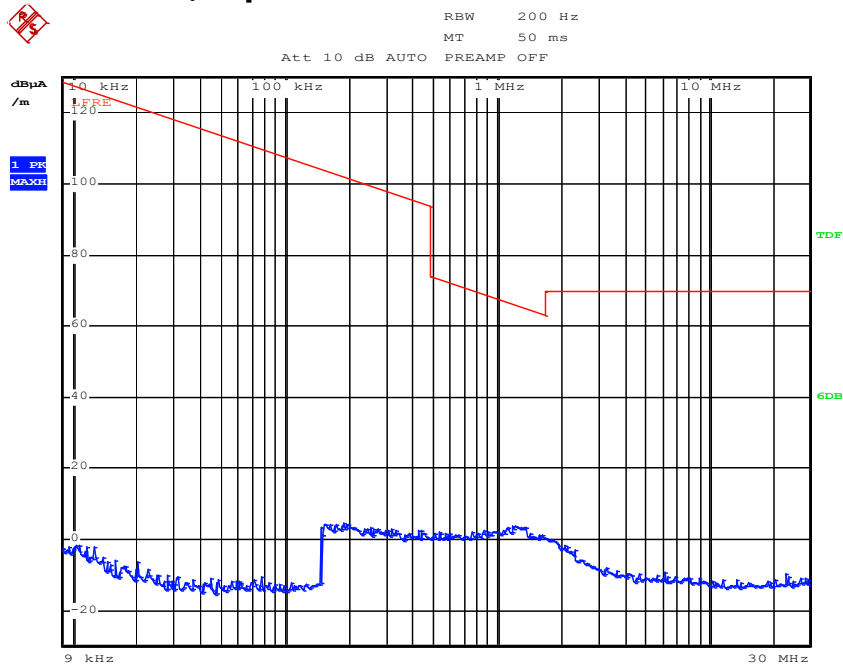
Date: 5.JUN.2014 09:07:16

Low channel, Z polarization:



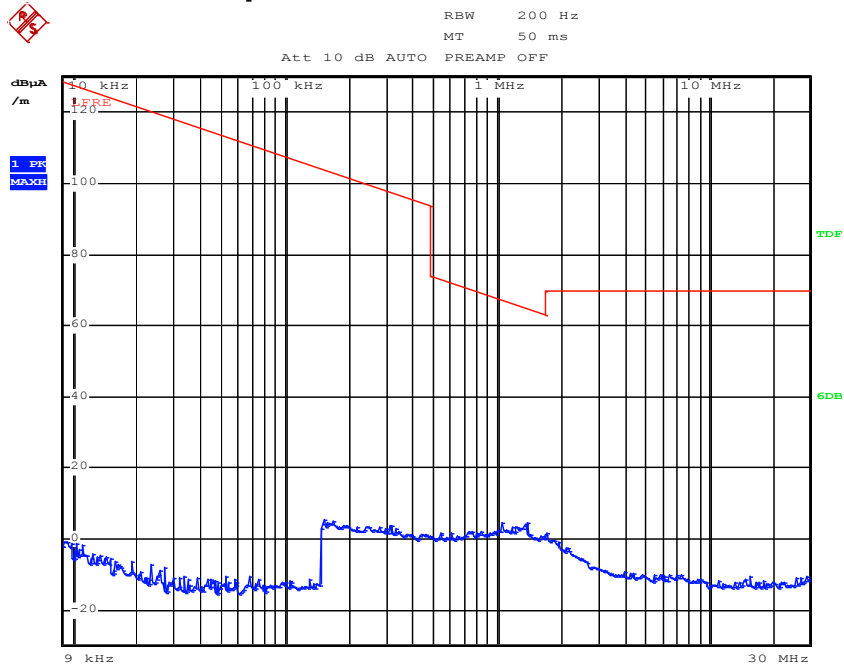
Date: 5.JUN.2014 09:09:10

Middle channel, X polarization:



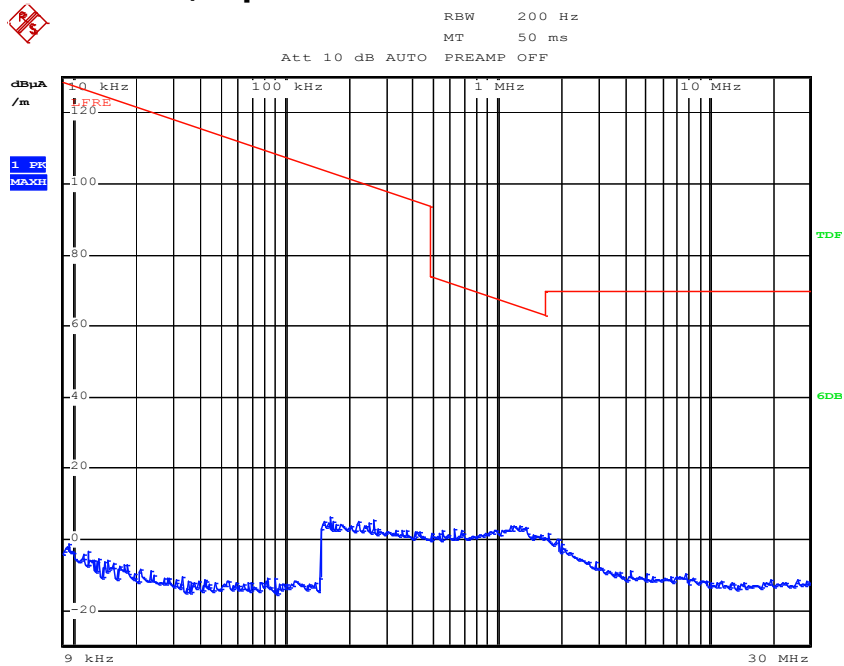
Date: 5.JUN.2014 09:11:06

Middle channel, Y polarization:



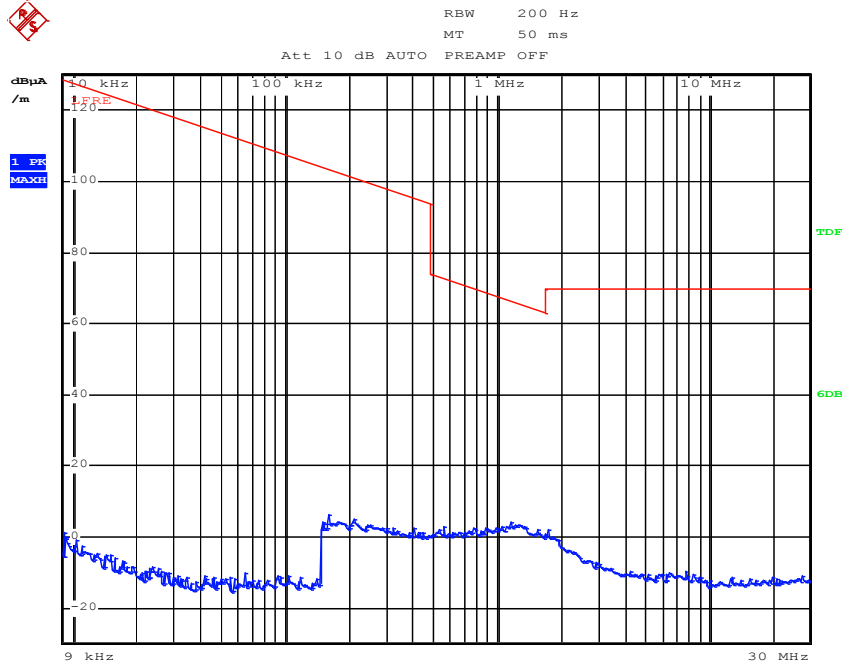
Date: 5.JUN.2014 09:13:03

Middle channel, Z polarization:



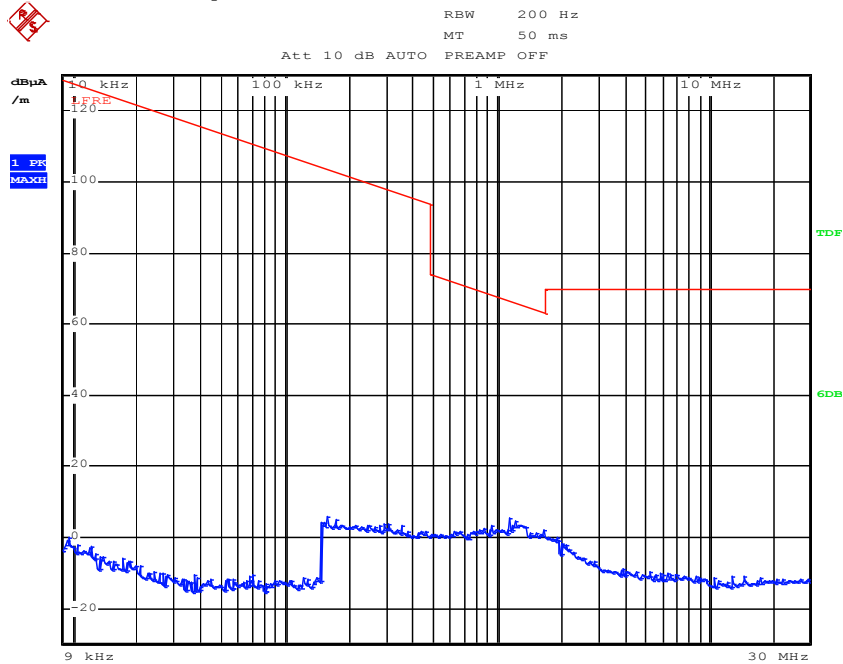
Date: 5.JUN.2014 09:14:57

High channel, X polarization:



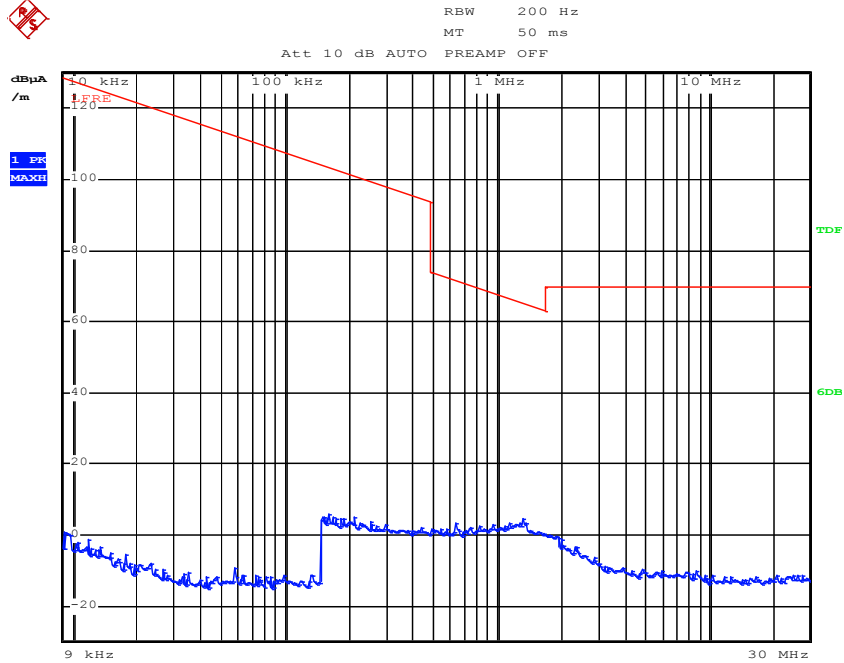
Date: 5.JUN.2014 09:16:58

High channel, Y polarization:



Date: 5.JUN.2014 09:19:00

High channel, Z polarization:



Date: 5.JUN.2014 09:21:02


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Job No.: PZ #430

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2402MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Horizontal

Power Source: AC 120V/60Hz

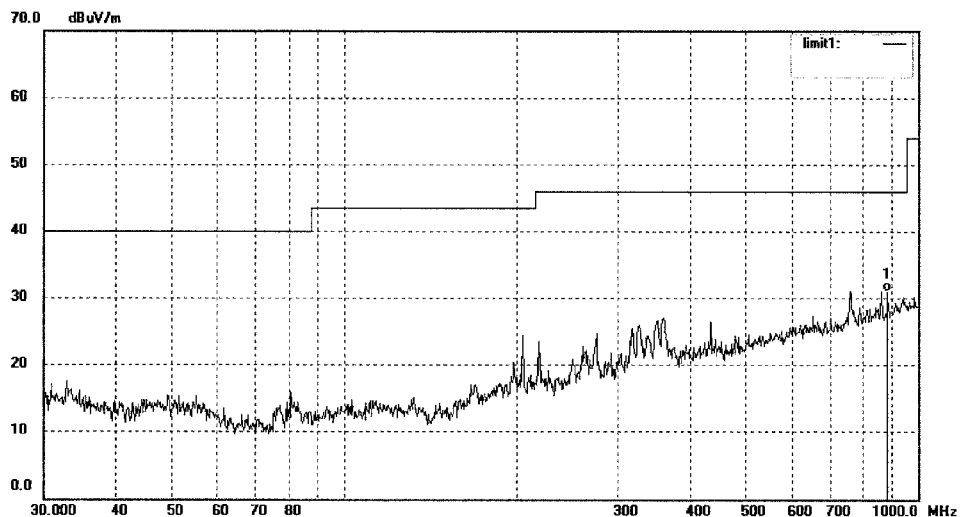
Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	875.9840	30.04	1.11	31.15	46.00	-14.85	QP			


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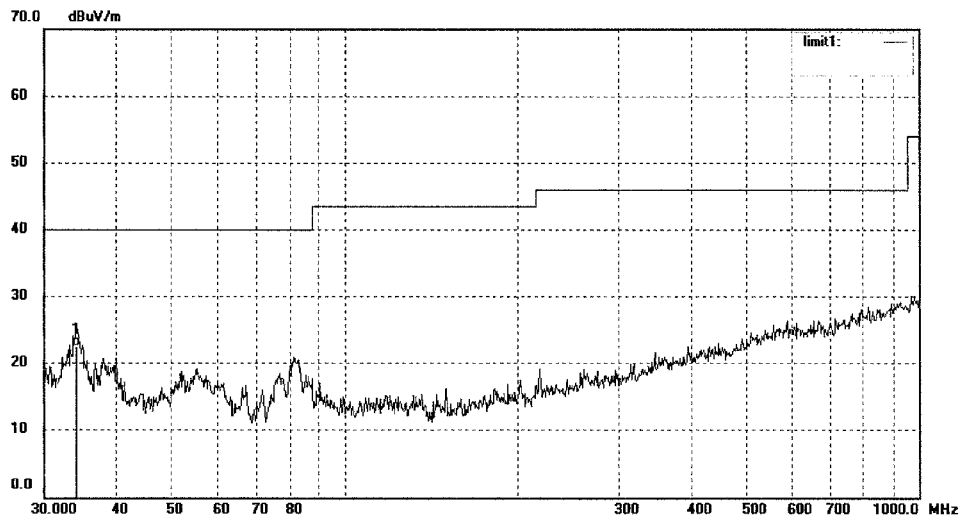
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: PZ #431	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/06/07
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Tablet	Engineer Signature: PEI
Mode: TX 2402MHz	Distance:
Model: NS-15AT10	
Manufacturer: Keen High	
Note: Bluetooth 4.0	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.2364	32.85	-10.34	22.51	40.00	-17.49	QP			


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Job No.: PZ #433

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2014/06/07

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Tablet

Engineer Signature: PEI

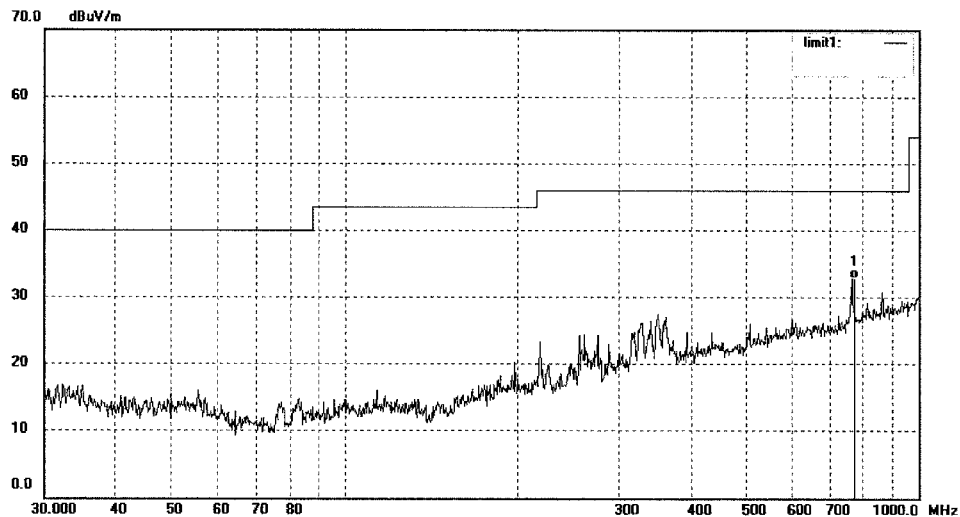
Mode: TX 2440MHz

Distance:

Model: NS-15AT10

Manufacturer: Keen High

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	775.9766	33.34	-0.53	32.81	46.00	-13.19	QP			


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Job No.: PZ #432

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2014/06/07

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Tablet

Engineer Signature: PEI

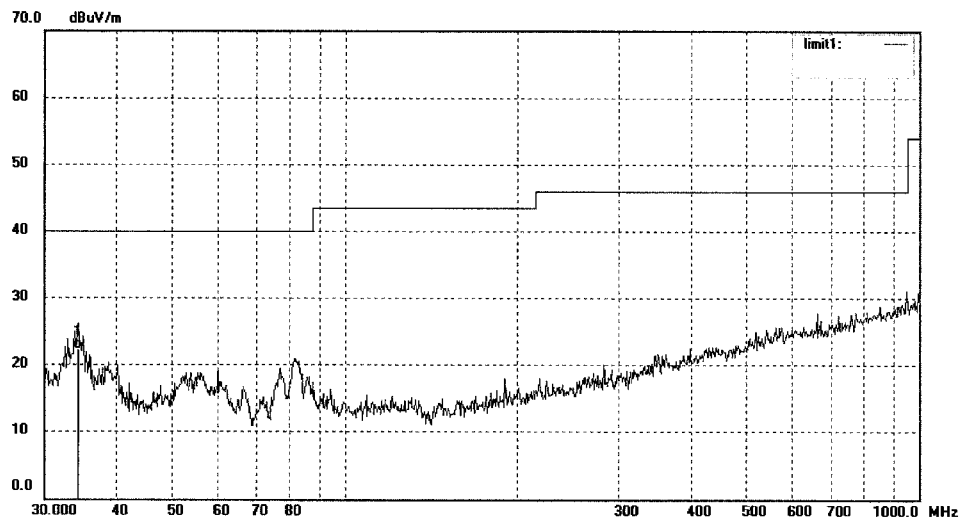
Mode: TX 2440MHz

Distance:

Model: NS-15AT10

Manufacturer: Keen High

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.3852	32.59	-10.36	22.23	40.00	-17.77	QP			


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Job No.: PZ #434

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2480MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Horizontal

Power Source: AC 120V/60Hz

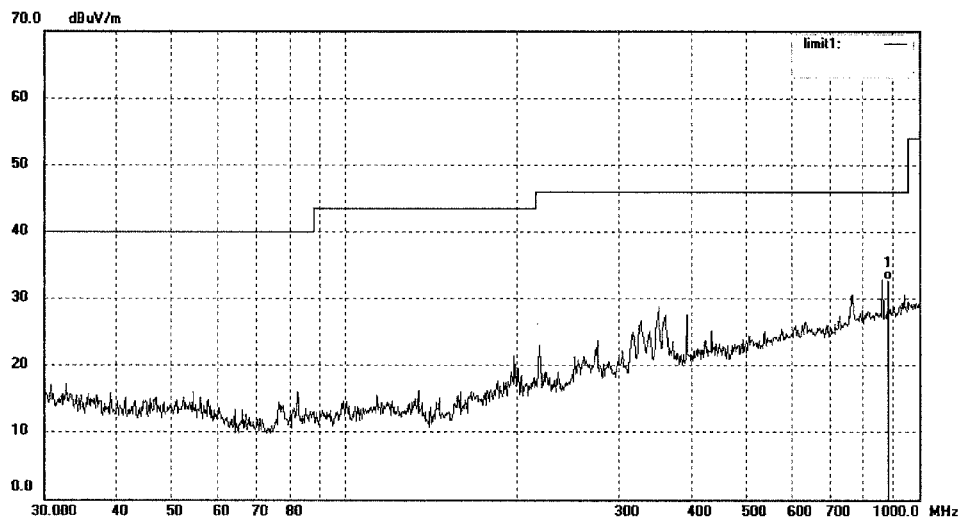
Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	875.9397	31.73	1.11	32.84	46.00	-13.16	QP			


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Fax:+86-0755-26503396

Job No.: PZ #435

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2480MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Vertical

Power Source: AC 120V/60Hz

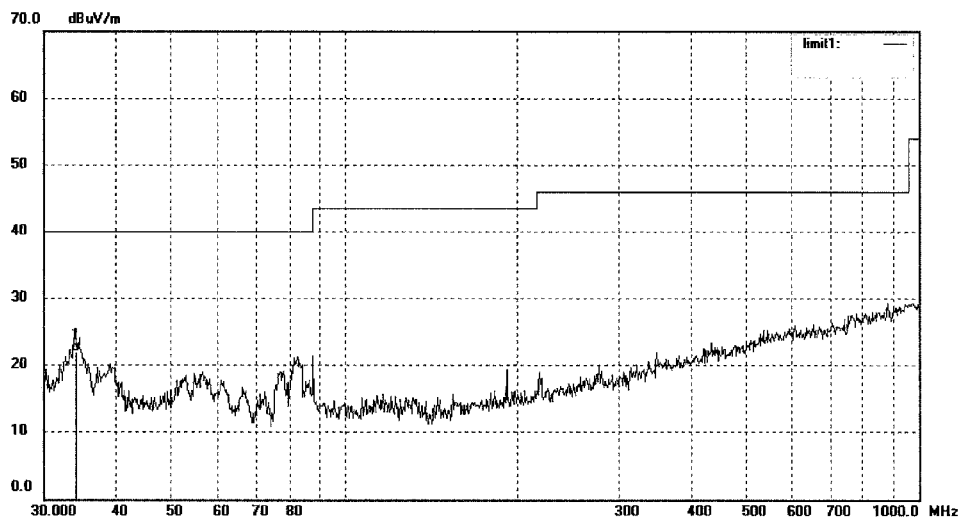
Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.2450	32.28	-10.34	21.94	40.00	-18.06	QP			


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Job No.: PZ #180

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2402MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Horizontal

Power Source: AC 120V/60Hz

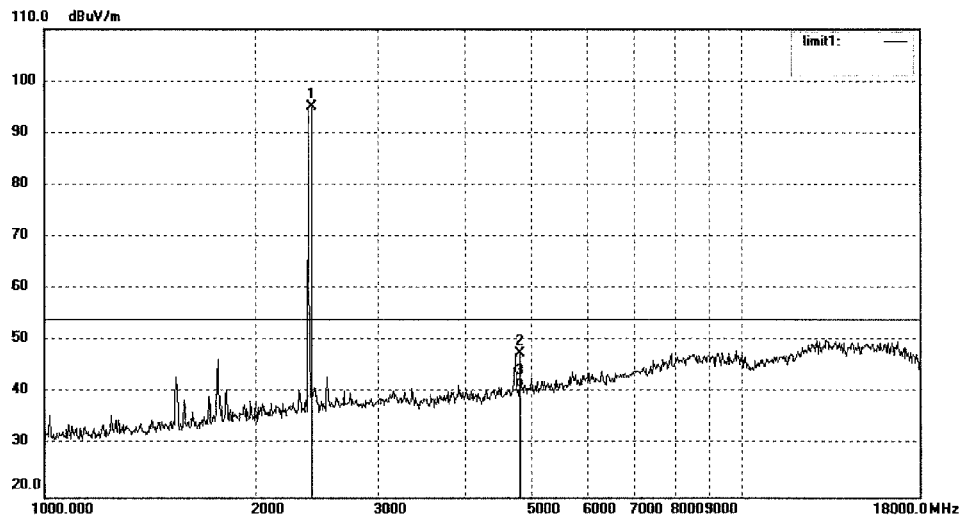
Date: 14/05/29/

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	102.57	-7.45	95.12	/	/	peak			
2	4804.036	47.84	-0.30	47.54	74.00	-26.46	peak			
3	4804.036	41.36	-0.30	41.06	54.00	-12.94	AVG			


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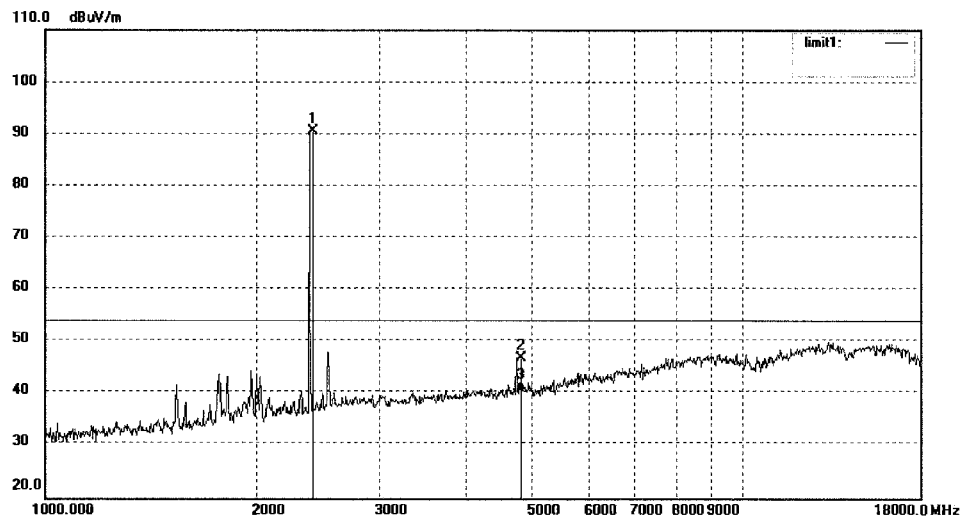
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #181
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Tablet
Mode: TX 2402MHz
Model: NS-15AT10
Manufacturer: Keen High

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 14/05/29/
Time:
Engineer Signature: PEI
Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	98.05	-7.45	90.60	/	/	peak			
2	4804.025	47.18	-0.30	46.88	74.00	-27.12	peak			
3	4804.025	40.58	-0.30	40.28	54.00	-13.72	AVG			


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Fax:+86-0755-26503396

Job No.: PZ #184

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2440MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Horizontal

Power Source: AC 120V/60Hz

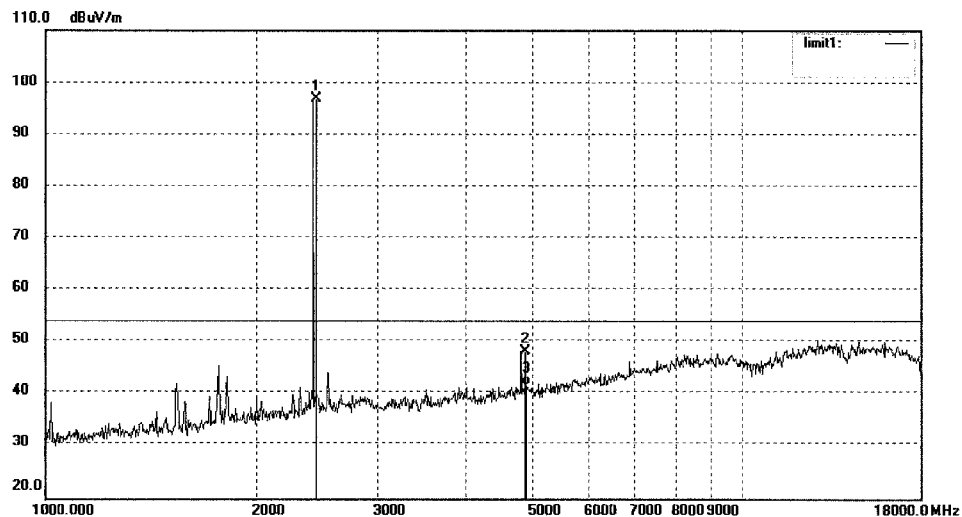
Date: 14/05/29/

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	104.29	-7.36	96.93	/	/	peak			
2	4880.028	48.15	0.13	48.28	74.00	-25.72	peak			
3	4880.028	41.52	0.13	41.65	54.00	-12.35	AVG			


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Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: PZ #185

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/05/29/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Tablet

Engineer Signature: PEI

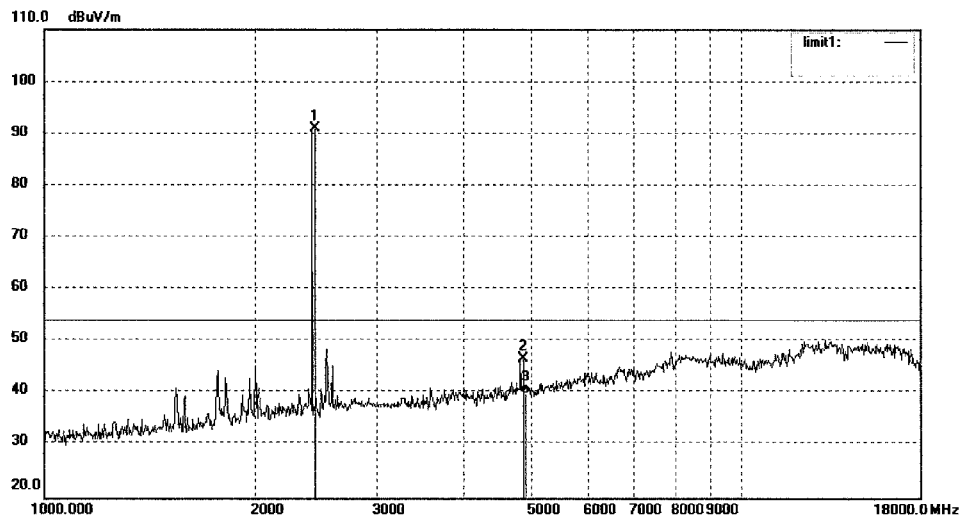
Mode: TX 2440MHz

Distance:

Model: NS-15AT10

Manufacturer: Keen High

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	98.33	-7.36	90.97	/	/	peak			
2	4880.024	46.55	0.13	46.68	74.00	-27.32	peak			
3	4880.024	39.85	0.13	39.98	54.00	-14.02	AVG			


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Fax:+86-0755-26503396

Job No.: PZ #187

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2480MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Horizontal

Power Source: AC 120V/60Hz

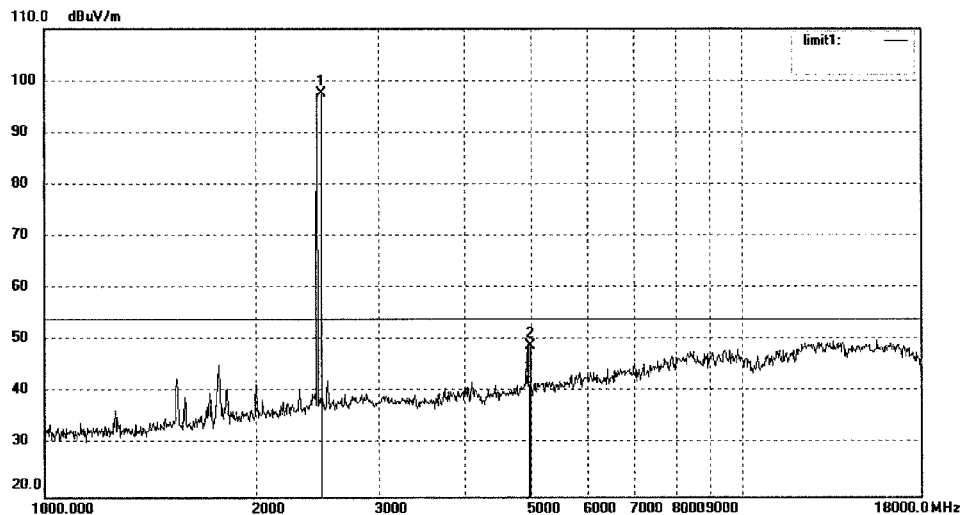
Date: 14/05/29/

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	104.89	-7.37	97.52	/	/	peak			
2	4960.280	48.43	0.52	48.95	74.00	-25.05	peak			
3	4960.280	40.94	0.52	41.46	54.00	-12.54	AVG			


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Job No.: PZ #186

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2480MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Vertical

Power Source: AC 120V/60Hz

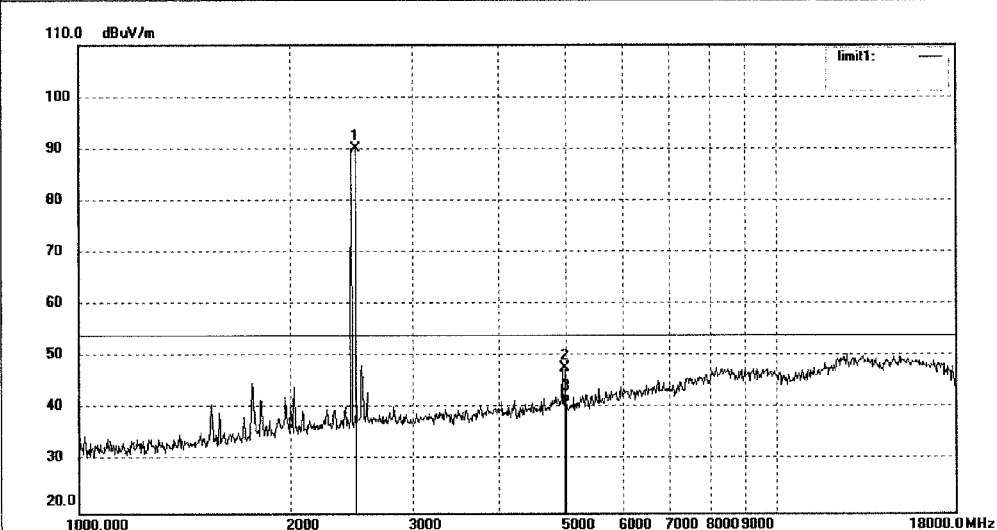
Date: 14/05/29/

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	97.47	-7.37	90.10	/	/	peak			
2	4960.270	47.23	0.52	47.75	74.00	-26.25	peak			
3	4960.270	40.58	0.52	41.10	54.00	-12.90	AVG			


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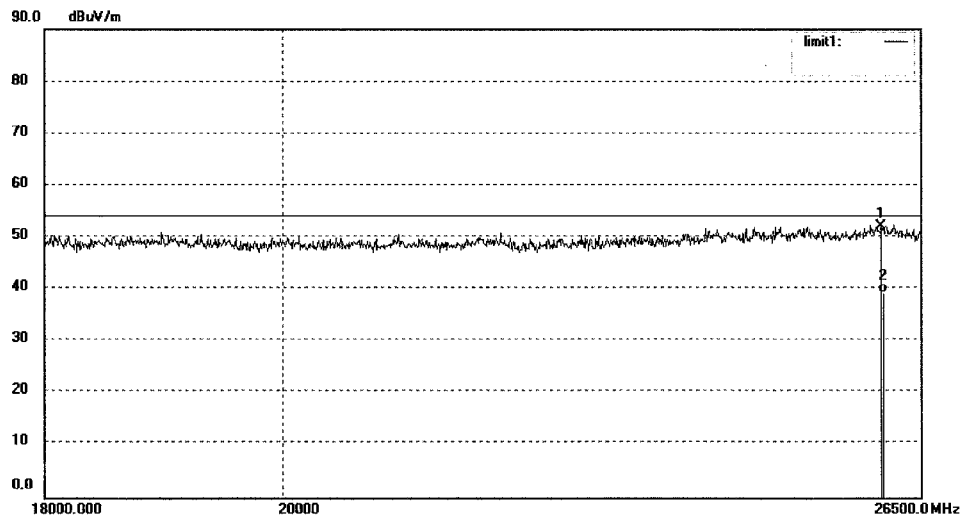
 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
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Site: 2# Chamber

Tel: +86-0755-26503290

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Job No.: PZ #447	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/06/07
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Tablet	Engineer Signature: PEI
Mode: TX 2402MHz	Distance:
Model: NS-15AT10	
Manufacturer: Keen High	
Note: Bluetooth 4.0	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26052.395	33.36	18.74	52.10	74.00	-21.90	peak			
2	26052.395	20.44	18.74	39.18	54.00	-14.82	AVG			


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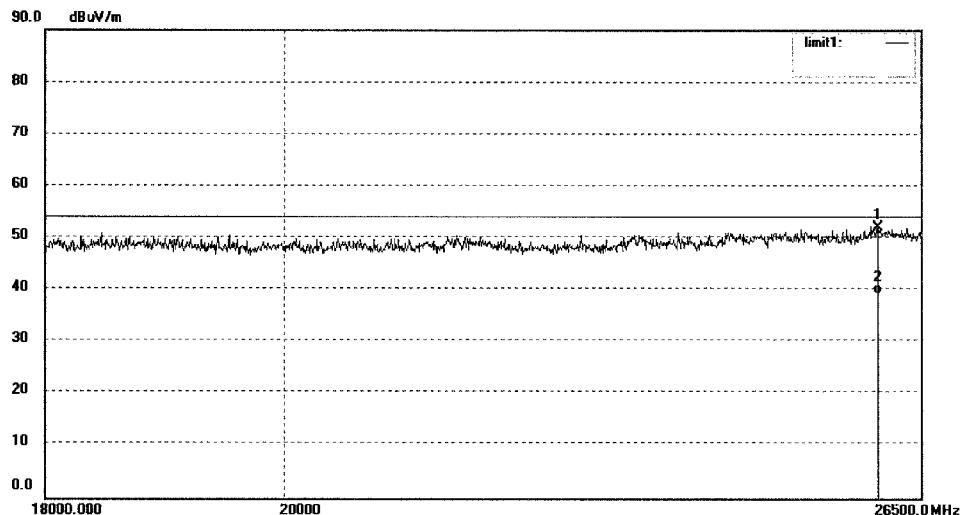
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #448	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/06/07
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Tablet	Engineer Signature: PEI
Mode: TX 2402MHz	Distance:
Model: NS-15AT10	
Manufacturer: Keen High	

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26011.596	33.41	18.73	52.14	74.00	-21.86	peak			
2	26011.596	20.64	18.73	39.37	54.00	-14.63	AVG			


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Job No.: PZ #450

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2440MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Horizontal

Power Source: AC 120V/60Hz

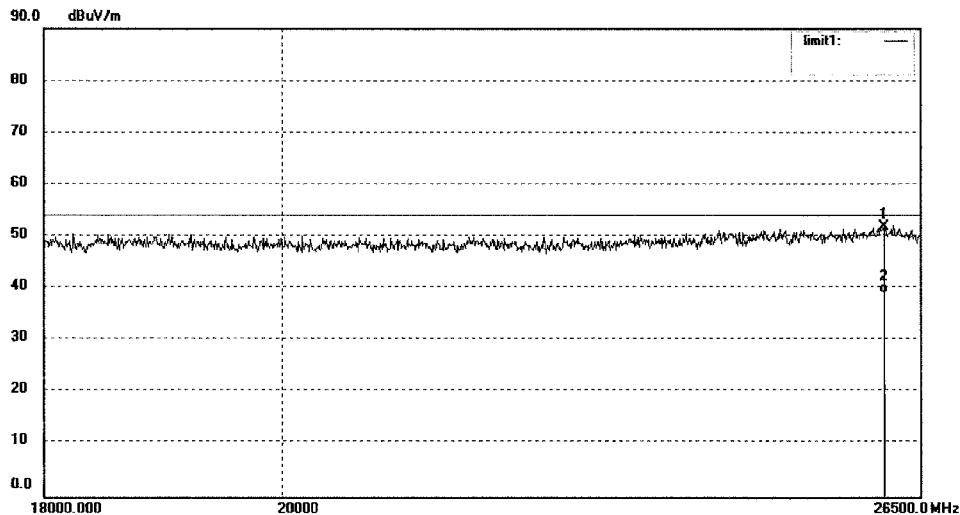
Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26082.257	33.11	18.75	51.86	74.00	-22.14	peak			
2	26082.257	20.36	18.75	39.11	54.00	-14.89	AVG			


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Job No.: PZ #449

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2440MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Vertical

Power Source: AC 120V/60Hz

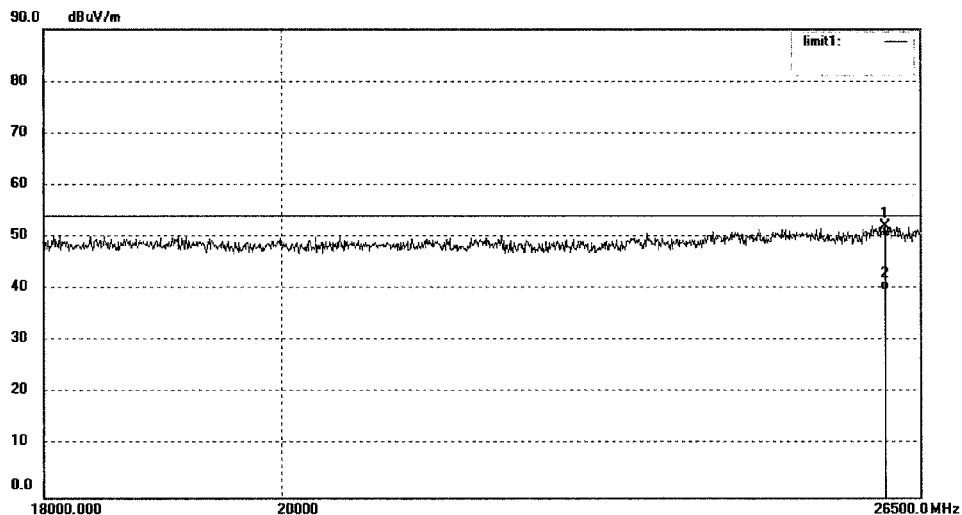
Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26102.481	33.39	18.76	52.15	74.00	-21.85	peak			
2	26102.481	20.85	18.76	39.61	54.00	-14.39	AVG			


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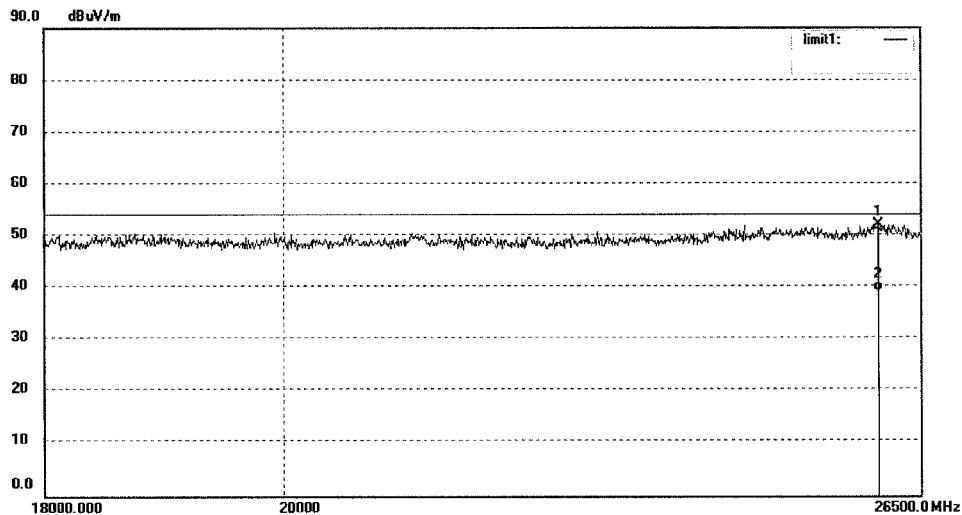
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Job No.: PZ #451	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/06/07
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Tablet	Engineer Signature: PEI
Mode: TX 2480MHz	Distance:
Model: NS-15AT10	
Manufacturer: Keen High	
Note: Bluetooth 4.0	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26021.678	33.25	18.73	51.98	74.00	-22.02	peak			
2	26021.678	20.53	18.73	39.26	54.00	-14.74	AVG			

Prüfbericht - Nr.: 17040437 001
Test Report No.
Seite 78 von 92
Page 78 of 92

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Job No.: PZ #452

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: TX 2480MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Vertical

Power Source: AC 120V/60Hz

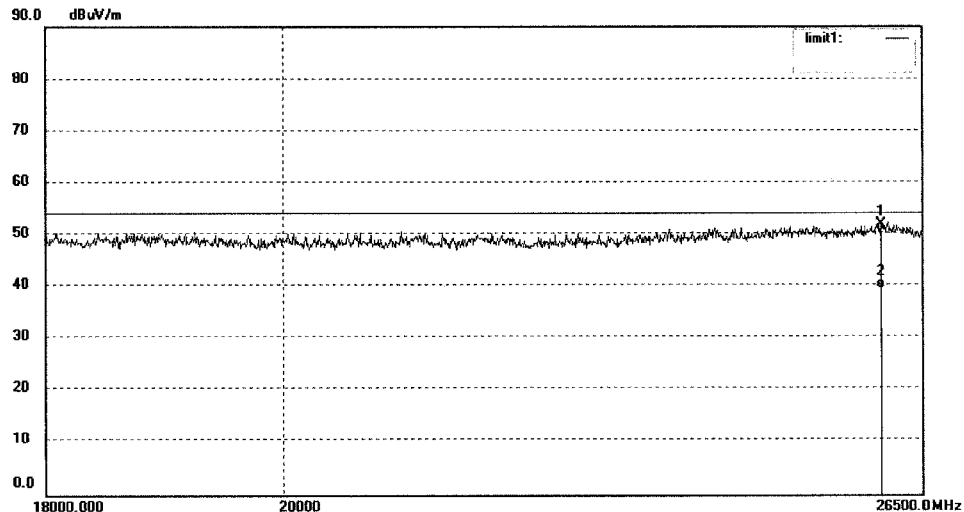
Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26031.765	33.08	18.74	51.82	74.00	-22.18	peak			
2	26031.765	20.71	18.74	39.45	54.00	-14.55	AVG			

Prüfbericht - Nr.: 17040437 001
Test Report No.
Seite 79 von 92
Page 79 of 92

Test Plot of Frequency Band Edge of Bluetooth LE mode


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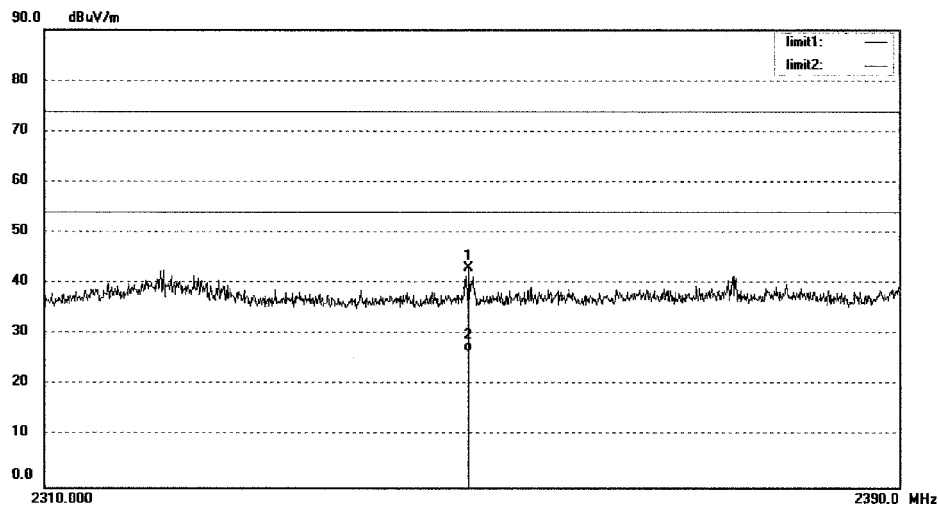
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #183
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Tablet
Mode: TX 2402MHz
Model: NS-15AT10
Manufacturer: Keen High

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 14/05/29/
Time:
Engineer Signature: PEI
Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2349.339	50.91	-7.79	43.12	74.00	-30.88	peak			
2	2349.339	34.39	-7.79	26.60	54.00	-27.40	AVG			


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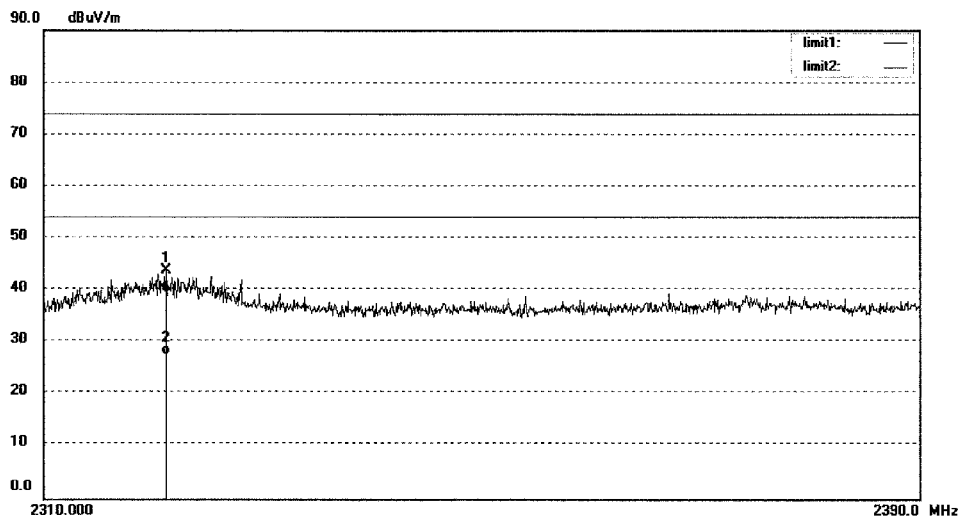
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #182
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Tablet
Mode: TX 2402MHz
Model: NS-15AT10
Manufacturer: Keen High

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 14/05/29/
Time:
Engineer Signature: PEI
Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2320.980	51.48	-7.81	43.67	74.00	-30.33	peak			
2	2320.980	35.31	-7.81	27.50	54.00	-26.50	AVG			


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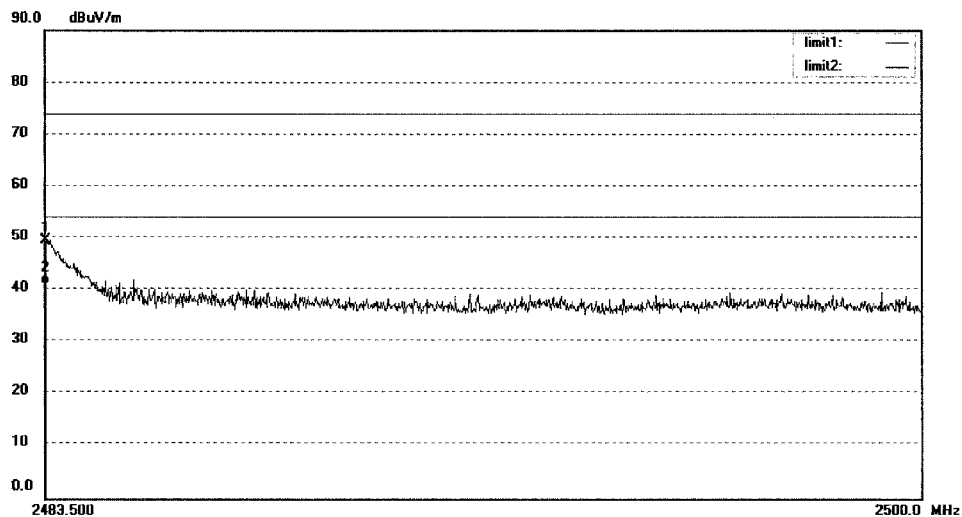
Tel:+86-0755-26503290

Fax:+86-0755-26503396

 Job No.: PZ #188
 Standard: FCC (Band Edge)
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Tablet
 Mode: TX 2480MHz
 Model: NS-15AT10
 Manufacturer: Keen High

 Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 14/05/29/
 Time:
 Engineer Signature: PEI
 Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	56.94	-7.37	49.57	74.00	-24.43	peak			
2	2483.500	48.47	-7.37	41.10	54.00	-12.90	AVG			


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Site: 2# Chamber

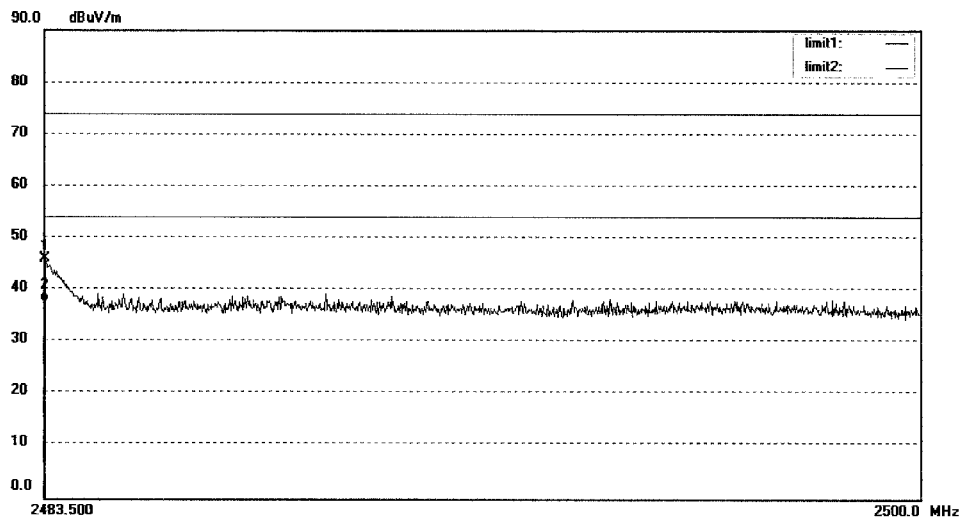
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #189
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Tablet
Mode: TX 2480MHz
Model: NS-15AT10
Manufacturer: Keen High

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 14/05/29/
Time:
Engineer Signature: PEI
Distance:

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	53.33	-7.37	45.96	74.00	-28.04	peak			
2	2483.500	45.17	-7.37	37.80	54.00	-16.20	AVG			

5.1.8 Frequency Separation

RESULT:

Pass

Date of testing	:	2014-05-29
Test standard	:	FCC part 15.247(a)(1) RSS-210 A8.1(b)
Basic standard	:	ANSI C63.4: 2003
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°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

Table 14: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1.002	≥ 25kHz or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1.002	≥ 25kHz or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2479	1.002	≥ 25kHz or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2480			

Prüfbericht - Nr.: 17040437 001

Test Report No.

Seite 84 von 92

Page 84 of 92

5.1.9 Number of hopping frequency**RESULT:****Pass**

Date of testing : 2014-05-29
Test standard : FCC part 15.247(a)(1)(iii)
RSS-210 A8.1(d)
Basic standard : ANSI C63.4: 2003
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°C
Relative humidity : 52%
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	:	2014-05-29
Test standard	:	FCC part 15.247(a)(1)(iii) RSS-210 A8.1(d)
Basic standard	:	ANSI C63.4: 2003
Limits	:	0.4s
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25°C
Relative humidity	:	52%
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	0.44	258	113.52	400
		2441	0.44	257	113.08	400
		2480	0.44	260	114.40	400
	DH3	2402	1.72	149	256.28	400
		2441	1.72	141	242.52	400
		2480	1.72	160	275.20	400
	DH5	2402	3.00	111	333	400
		2441	3.00	114	342	400
		2480	3.00	100	300	400
EDR	DH1	2402	0.45	264	118.80	400
		2441	0.44	259	113.96	400
		2480	0.45	254	114.30	400
	DH3	2402	1.72	150	258.00	400
		2441	1.72	150	258.00	400
		2480	1.71	141	241.11	400
	DH5	2402	3.00	102	306	400
		2441	3.00	106	318	400
		2480	3.00	106	318	400

Prüfbericht - Nr.: 17040437 001

Test Report No.

Seite 86 von 92

Page 86 of 92

5.1.11 Conducted emissions**RESULT:****Pass**

Date of testing	:	2014-05-27
Test standard	:	FCC Part 15.207 RSS-210 Clause 2.6
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207 Table 4 of RSS-Gen
Kind of test site	:	Shield room

Test setup

Input Voltage	:	AC 120V, 60Hz
Operation Mode	:	A
Earthing	:	Not Connected
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

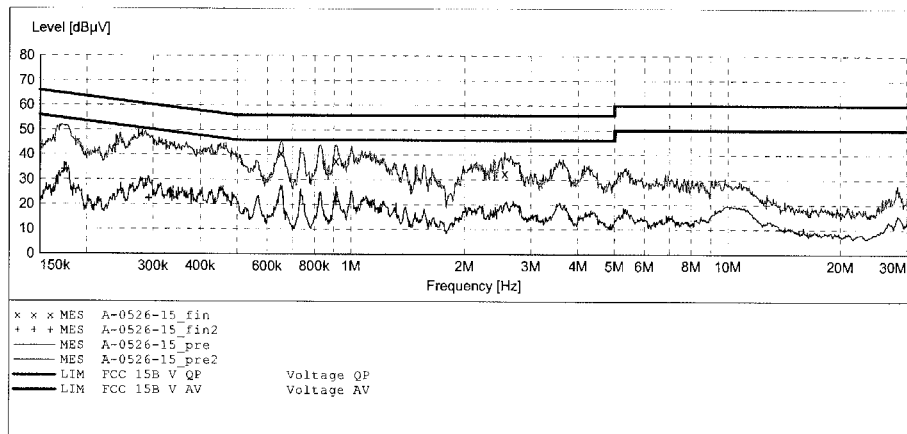
For details refer to following test plot.

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Tablet M/N:NS-15AT10
 Manufacturer: Keen High
 Operating Condition: On with Bluetooth
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: L 120V/60Hz
 Comment: Mains port
 Start of Test: 5/27/2014 / 10:05:22AM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "A-0526-15_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.651775	40.60	10.8	56	15.4	QP	L1	GND
0.911443	37.70	10.8	56	18.3	QP	L1	GND
2.552862	32.70	11.0	56	23.3	QP	L1	GND

MEASUREMENT RESULT: "A-0526-15_fin2"

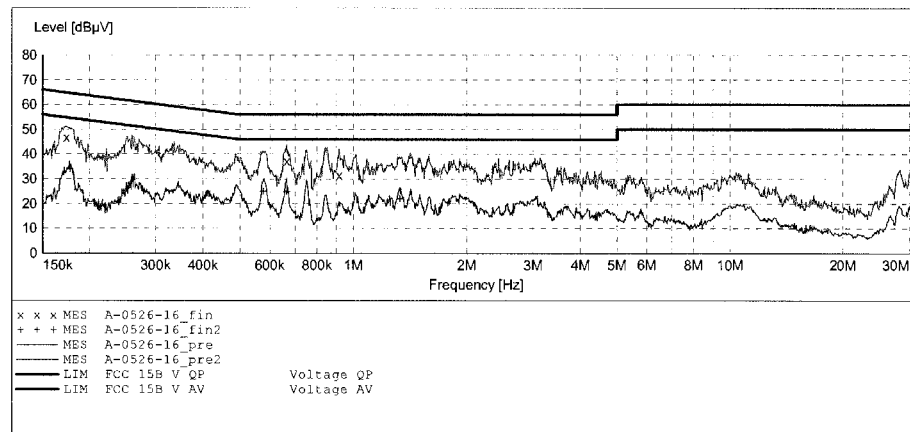
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.173876	34.00	10.5	55	20.8	AV	L1	GND
0.292160	22.40	10.6	51	28.1	AV	L1	GND
0.911443	21.10	10.8	46	24.9	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Tablet M/N:NS-15AT10
 Manufacturer: Keen High
 Operating Condition: On with Bluetooth
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: N 120V/60Hz
 Comment: Mains port
 Start of Test: 5/27/2014 / 10:16:01AM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "A-0526-16_fin"

5/27/2014 10:28AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.173183	46.80	10.5	65	18.0	QP	N	GND
0.664915	37.20	10.8	56	18.8	QP	N	GND
0.915089	31.50	10.8	56	24.5	QP	N	GND

MEASUREMENT RESULT: "A-0526-16_fin2"

5/27/2014 10:28AM

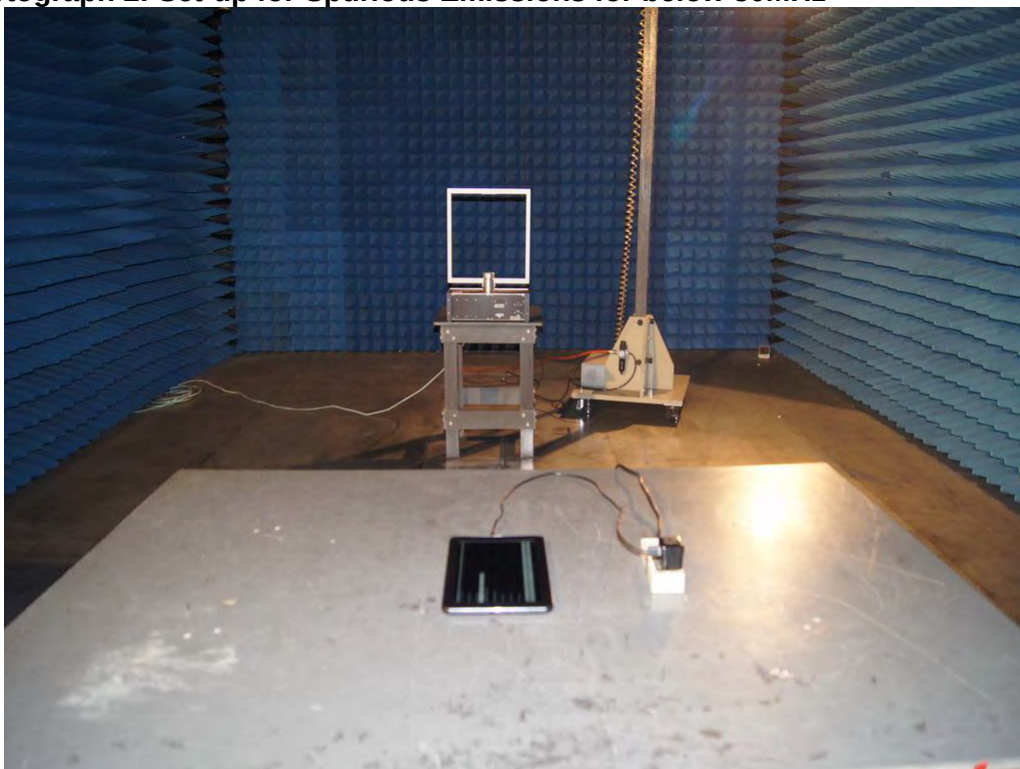
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.177381	34.00	10.5	55	20.6	AV	N	GND
0.575907	24.90	10.7	46	21.1	AV	N	GND
0.664915	24.80	10.8	46	21.2	AV	N	GND
1.326473	22.00	10.9	46	24.0	AV	N	GND

6. Photographs of the Test Set-Up

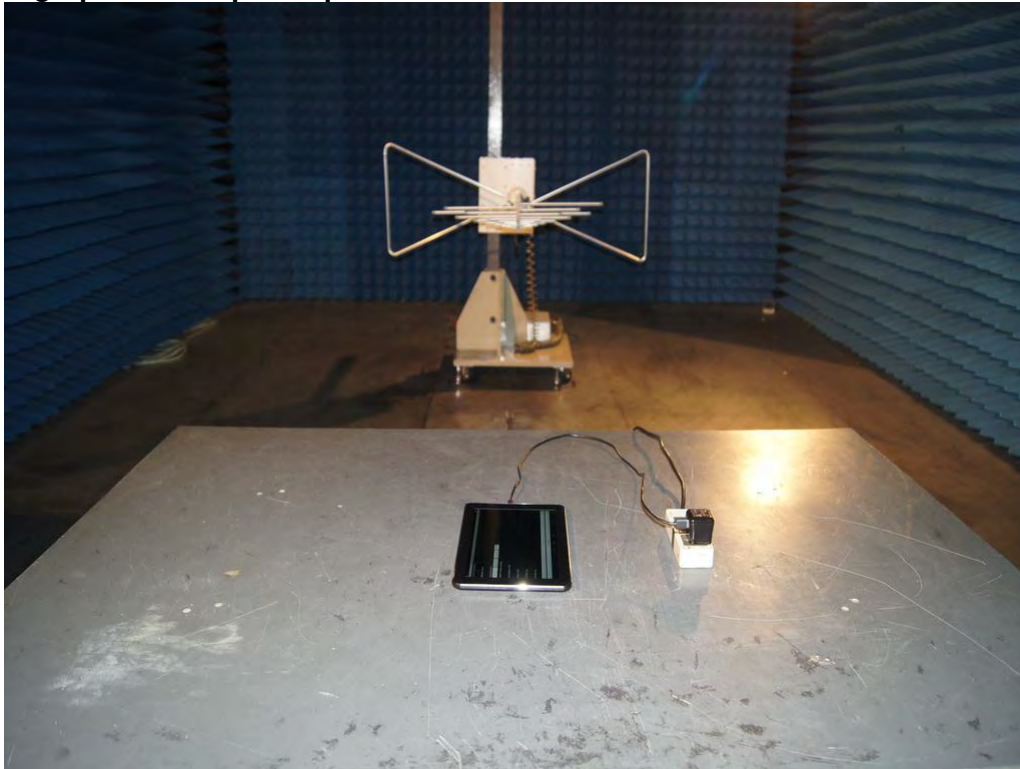
Photograph 1: Set-up for Conducted Emissions



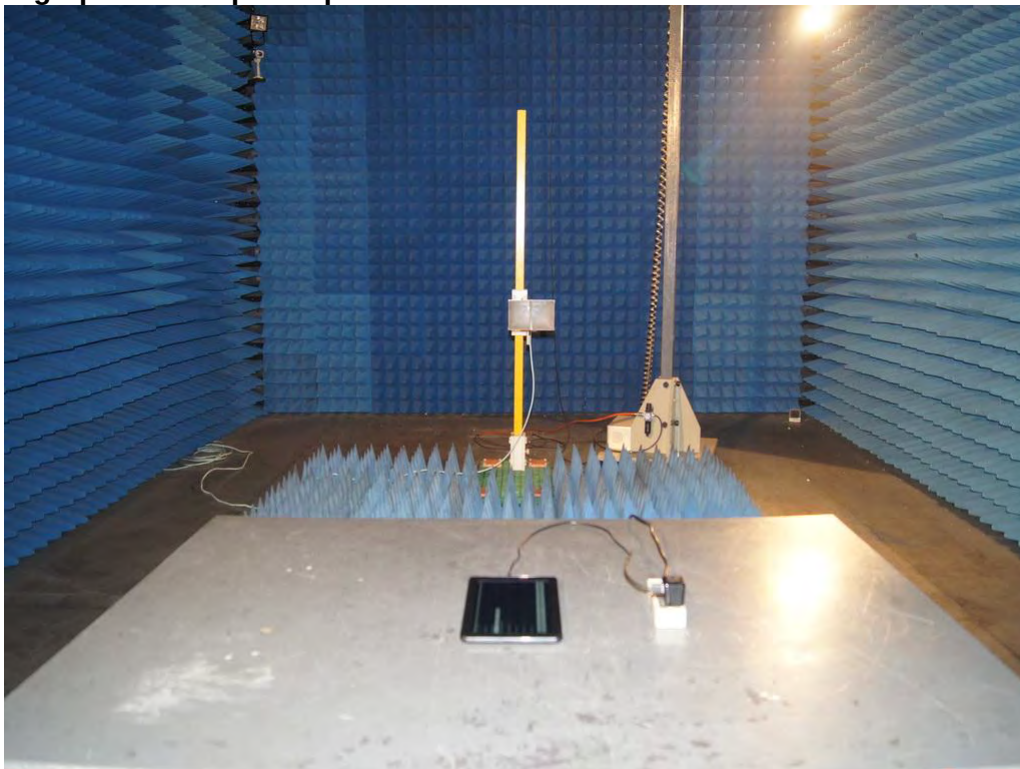
Photograph 2: Set-up for Spurious Emissions for below 30MHz



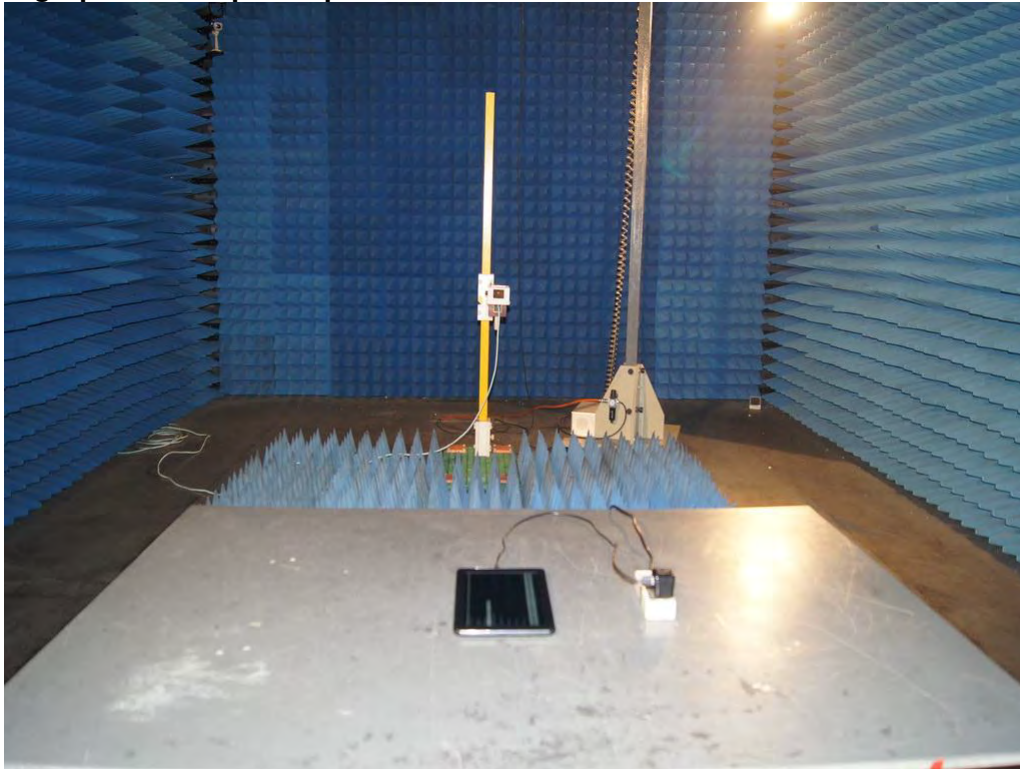
Photograph 3: Set-up for Spurious Emissions for 30 - 1000MHz



Photograph 4: Set-up for Spurious Emissions for 1 - 18GHz



Photograph 5: Set-up for Spurious Emissions for 18 - 26.5GHz



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)	7
Table 4: RF channel and frequency of Bluetooth (BDR & EDR mode).....	7
Table 5: Technical Specification of Bluetooth (LE mode)	8
Table 6: RF channel and frequency of Bluetooth (LE mode).....	8
Table 7: Test result of Peak Output Power of Bluetooth (BDR mode).....	14
Table 8: Test result of Peak Output Power of Bluetooth (EDR mode).....	14
Table 9: Test result of Peak Output Power of Bluetooth (LE mode).....	14
Table 10: Test result of 20dB & 99% Bandwidth of BDR mode	15
Table 11: Test result of 20dB & 99% Bandwidth of EDR mode	15
Table 12: Test result of 6dB & 99% Bandwidth of Bluetooth, LE mode	16
Table 13: Test result of power spectral density:.....	27
Table 14: Test result of Frequency Separation	83
Table 15: Test result of Number of hopping frequency	84
Table 16: Test result of Time of Occupancy.....	85

8. List of Photographs

Photograph 1: Set-up for Conducted Emissions	89
Photograph 2: Set-up for Spurious Emissions for below 30MHz	89
Photograph 3: Set-up for Spurious Emissions for 30 - 1000MHz	90
Photograph 4: Set-up for Spurious Emissions for 1 - 18GHz.....	90
Photograph 5: Set-up for Spurious Emissions for 18 - 26.5GHz.....	91