

Prüfbericht-Nr.: <i>Test Report No.:</i>	17053048 001	Auftrags-Nr.: <i>Order No.:</i>	164043178	Seite 1 von 60 <i>Page 1 of 60</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	13.08.2015	
Auftraggeber: <i>Client:</i>	Guangdong Transtek Medical Electronics Co., Ltd Zone A, No.105, Dongli Road Torch Development District, Zhongshan , Guangdong 528437, China			
Prüfgegenstand: <i>Test item:</i>	Body Fat Analyzer			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	LS208-B7			
Auftrags-Inhalt: <i>Order content:</i>	FCC Certification			
Prüfgrundlage: <i>Test specification:</i>	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 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109			
Wareneingangsdatum: <i>Date of receipt:</i>	16.09.2015			
Prüfmuster-Nr.: <i>Test sample No.:</i>	1501626, 1501627			
Prüfzeitraum: <i>Testing period:</i>	18.09.2015 - 19.09.2015			
Ort der Prüfung: <i>Place of testing:</i>	Accurate Technology Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
20.10.2015 Owen Tian/Senior Project Manager		20.10.2015 Sam Lin/Technical Certifier		
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
				Unterschrift <i>Signature</i>
Sonstiges / Other:		FCC ID: OU9LS208-B07		
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* 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. <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>				

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TEST SUMMARY

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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051)

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	Rohde & Schwarz	FSV40	101495	2016-01-09
Test Receiver	Rohde & Schwarz	ESCS30	100307	2016-01-09
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2016-01-14
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2016-01-14
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2016-01-14
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2016-01-14
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2016-01-09
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	2016-01-09
50 Coaxial Switch	Anritsu Corp	MP59B	620050647 4	2016-01-09
RF Coaxial Cable	SUHNER	N-3m	No.8	2016-01-09
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2016-01-09
RF Coaxial Cable	SUHNER	N-6m	No.10	2016-01-09
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2016-01-09
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2016-01-09
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2016-01-09
Vector Signal Generator	Rohde & Schwarz	SMBV100A	260434	2016-01-09
Signal Generator	Rohde & Schwarz	SMB100A	108362	2016-01-09
Open Switch and Control Unit	Rohde & Schwarz	OSP120 + OSP-B157	101244 + 100866	2016-01-09

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 body fat analyzer with Bluetooth function.
 For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of Bluetooth Low Energy mode

Technical Specification	Value
Kind of Equipment	Body Fat Analyzer
Type Designation	LS208-B7
FCC ID	OU9LS208-B07
Operating Frequency band	2402 – 2480MHz
Channel separation	2MHz
Extreme Temperature Range	-10~+45°C
Operation Voltage	DC 6V (via 4 x 'AAA' size battery)
Modulation	GFSK
Bluetooth version	4.0, Single Mode
Antenna Gain	0dBi

Table 4: 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 Low Energy mode
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
 - B. On without Bluetooth function
- C. Standby
- D. 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 & ANSI C63.4: 2014.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	S/N
Notebook PC	Lenovo	ThinkPad X240	N/A

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 for below 1GHz

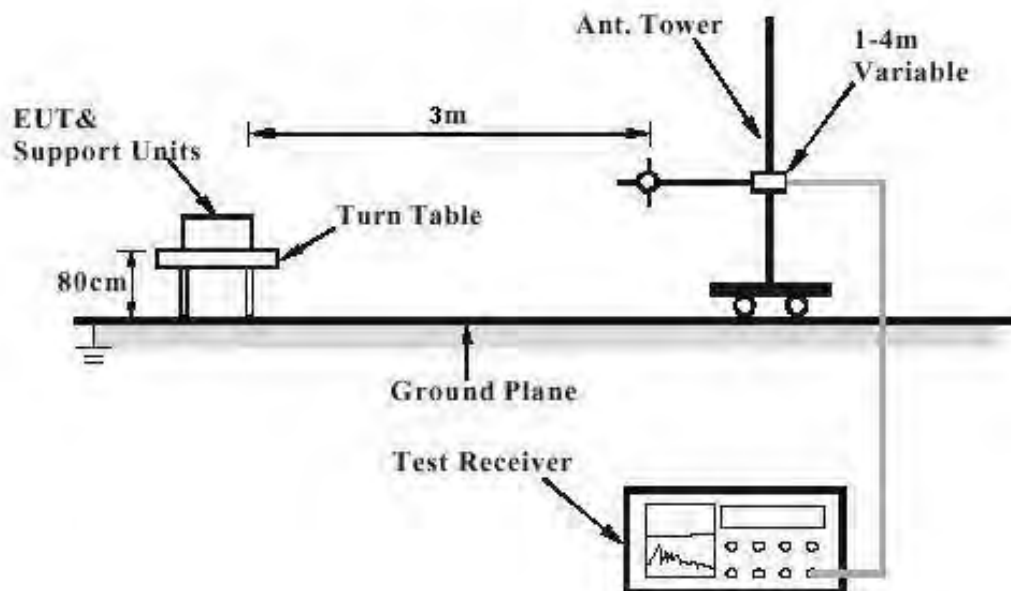


Diagram of Measurement Configuration for Radiation Test for above 1GHz

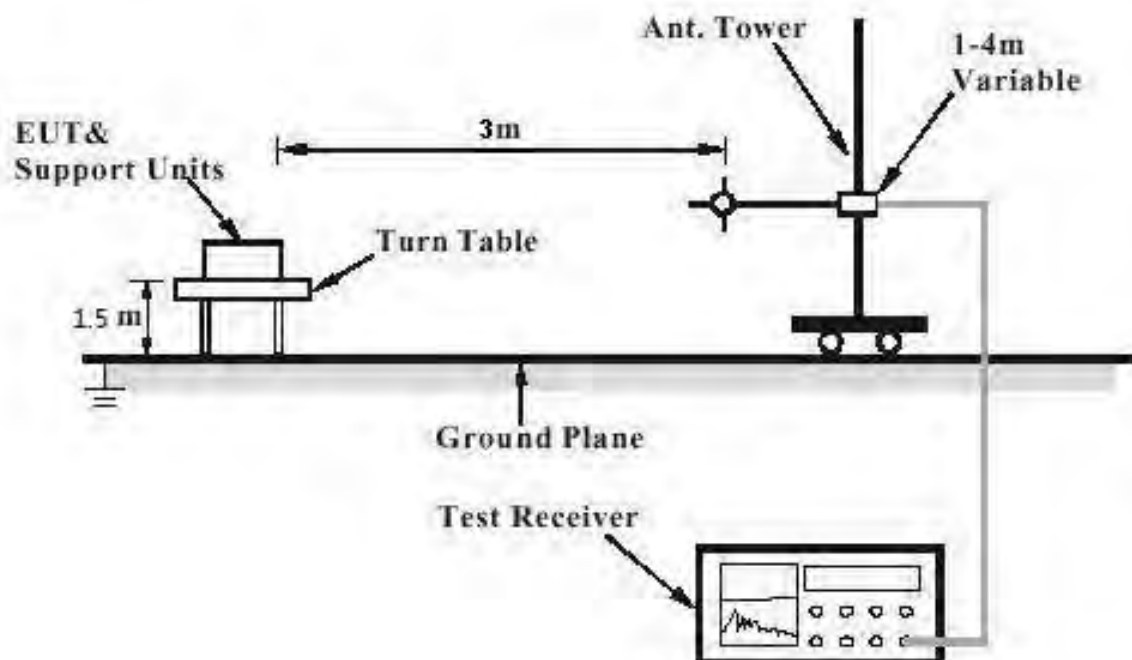


Diagram of Measurement Equipment Configuration for Conduction Measurement

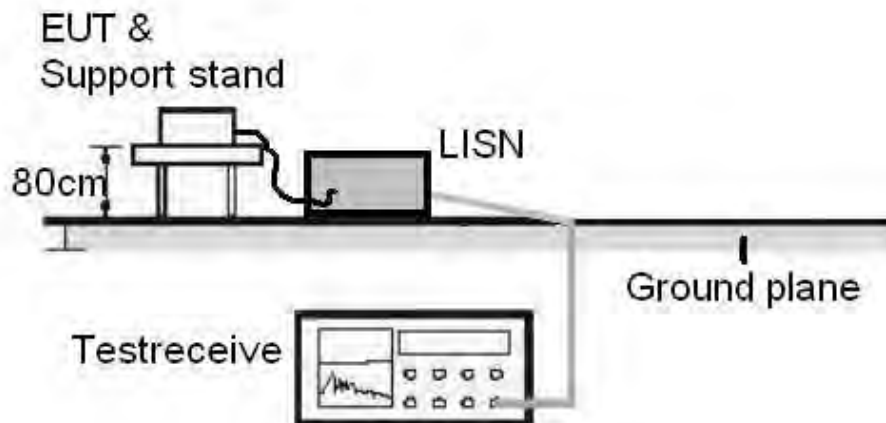
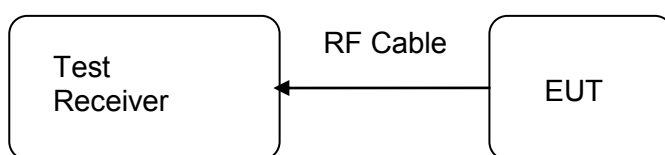


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass**

Test standard : Part 15.203
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 0dBi, 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 : 2015-09-19
Test standard : FCC Part 15.247(b)(1)
FCC Part 15.247(b)(3)
Basic standard : ANSI C63.10: 2013
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
Ambient temperature : 25°C
Relative humidity : 50%
Atmospheric pressure : 101kPa

Table 5: Test result of Peak Output Power

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	-0.48	30
Middle Channel	2440	-0.67	30
High Channel	2480	-0.81	30

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5.1.3 6dB Bandwidth**RESULT:****Pass**

Date of testing : 2015-09-19
Test standard : FCC Part 15.247(a)(2)
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°C
Relative humidity : 50%
Atmospheric pressure : 101kPa

Table 6: Test result of 6dB Bandwidth

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low Channel	2402	0.695	≥0.5
Mid Channel	2440	0.701	≥0.5
High Channel	2480	0.686	≥0.5

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

Date of testing	:	2015-09-19
Test standard	:	FCC part 15.247(d)
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

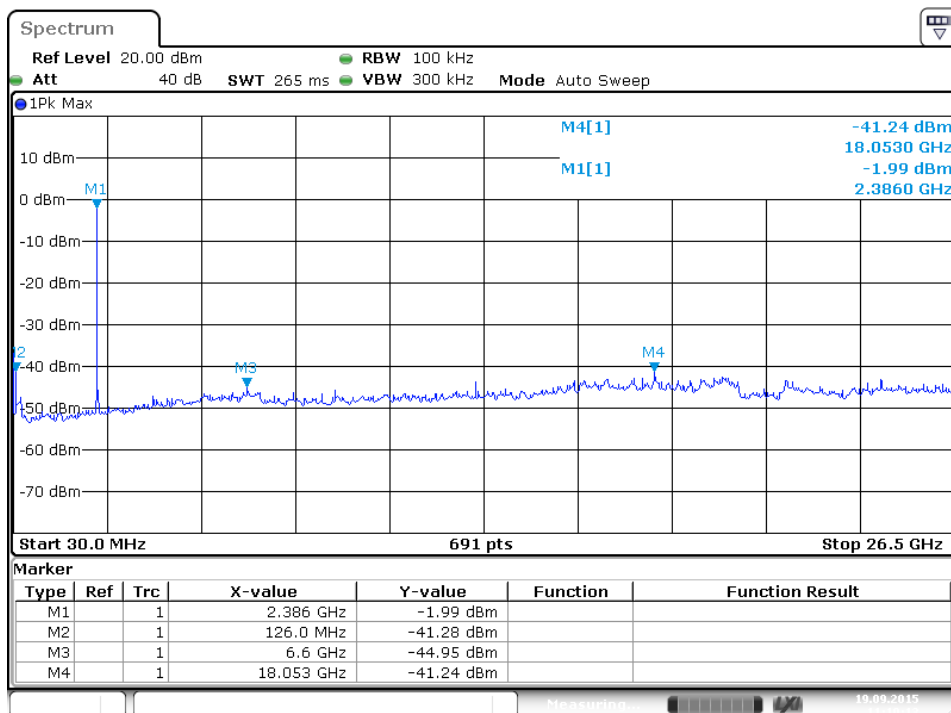
Test setup

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

For details refer to following test plot.

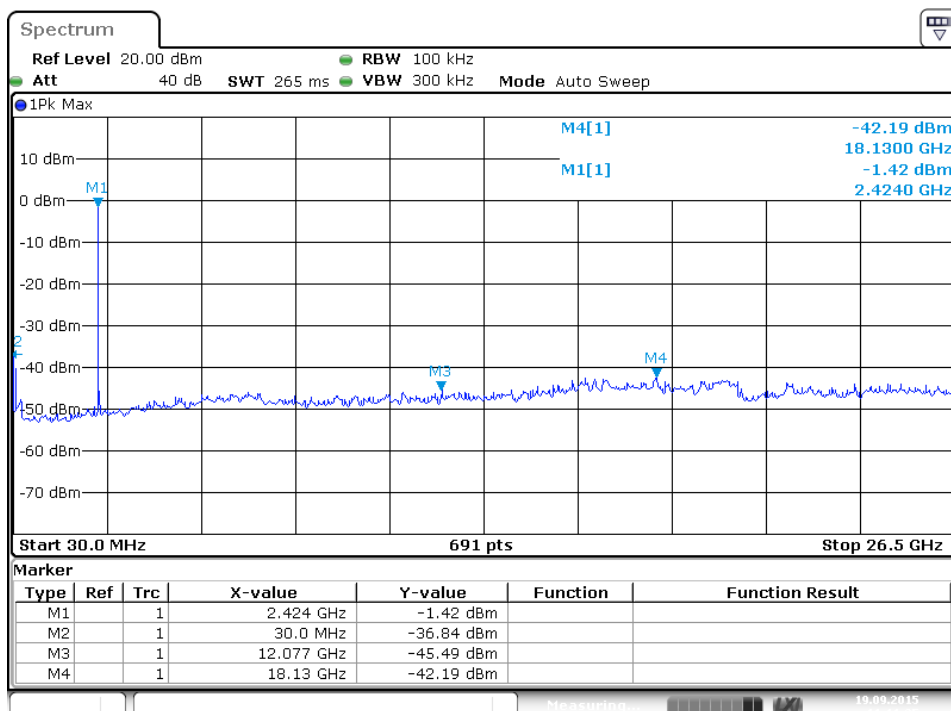
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth

Low Channel

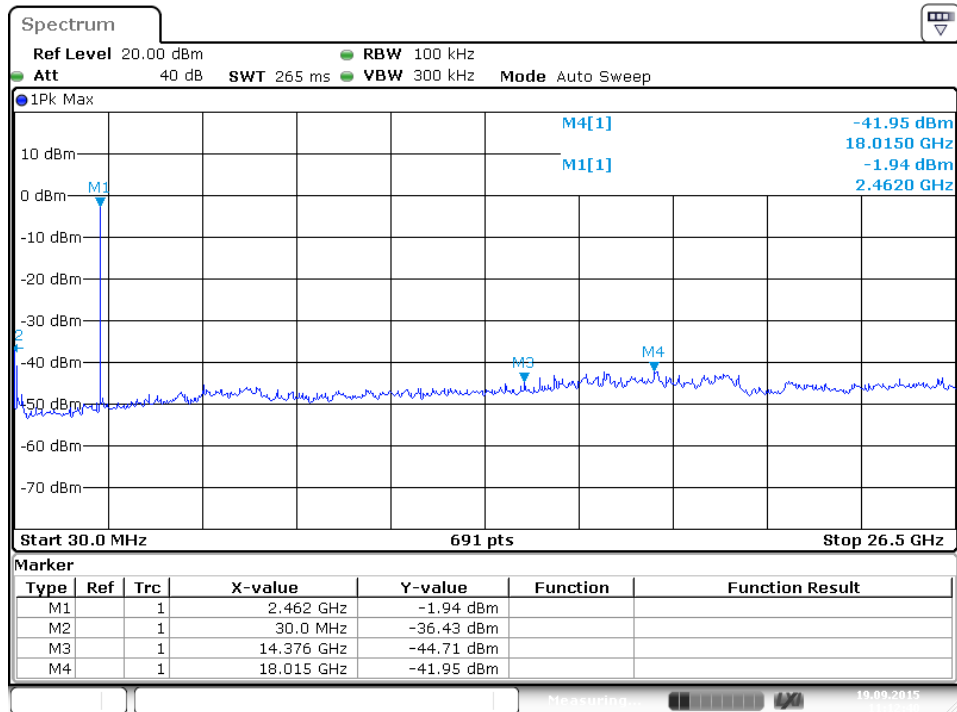


Date: 19.SEP.2015 11:10:13

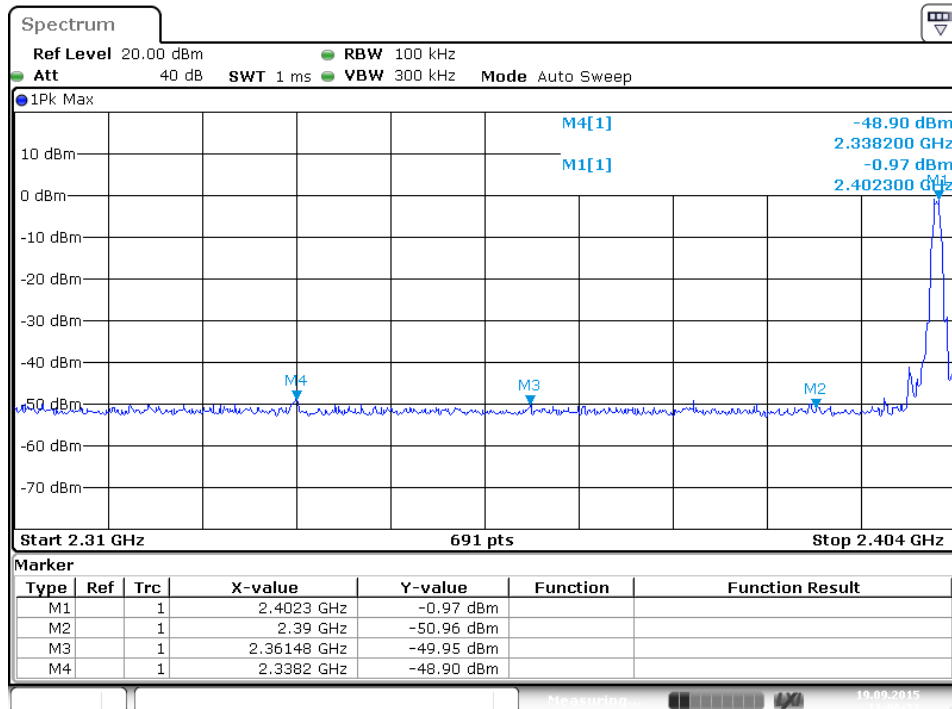
Middle Channel



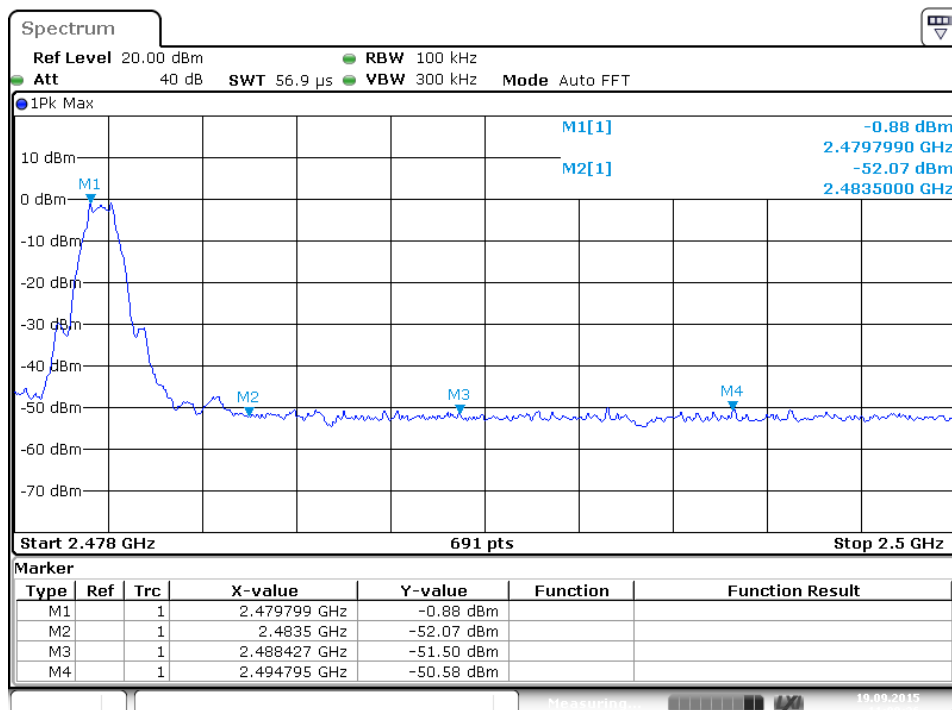
Date: 19.SEP.2015 11:11:35

High Channel


Date: 19.SEP.2015 11:12:40

Band Edge


Date: 19.SEP.2015 11:06:23



Date: 19.SEP.2015 11:08:26

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5.1.5 Power spectral density**RESULT:****Pass**

Date of testing : 2015-09-19
Test standard : FCC part 15.247(e)
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.1.a
Ambient temperature : 25°C
Relative humidity : 50%
Atmospheric pressure : 101kPa

Table 7: Test result of power spectral density

Mode	Channel (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Conclusion
Bluetooth LE mode	2402	-12.39	8	Pass
	2440	-12.55	8	Pass
	2480	-12.38	8	Pass

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5.1.6 Spurious Emission

RESULT:**Pass**

Date of testing	:	2015-09-19
Test standard	:	FCC part 15.247(d)
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
Ambient temperature	:	24°C
Relative humidity	:	53%
Atmospheric pressure	:	101kPa

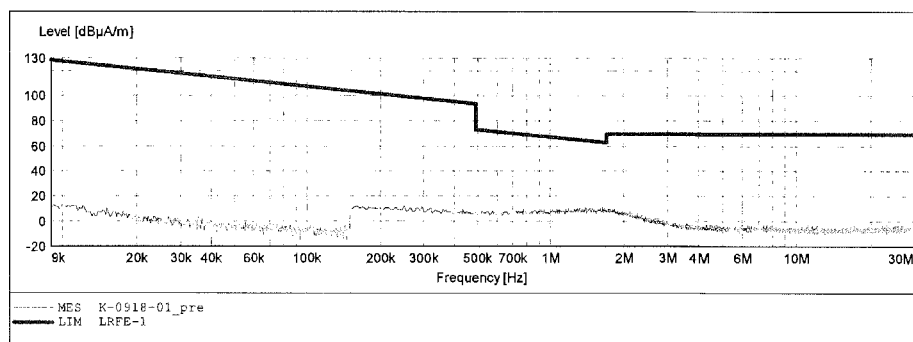
For details refer to following test plot.

ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: Bluetooth fat scale M/N:LS208-B7
 Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: X
 Start of Test: 2015-9-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

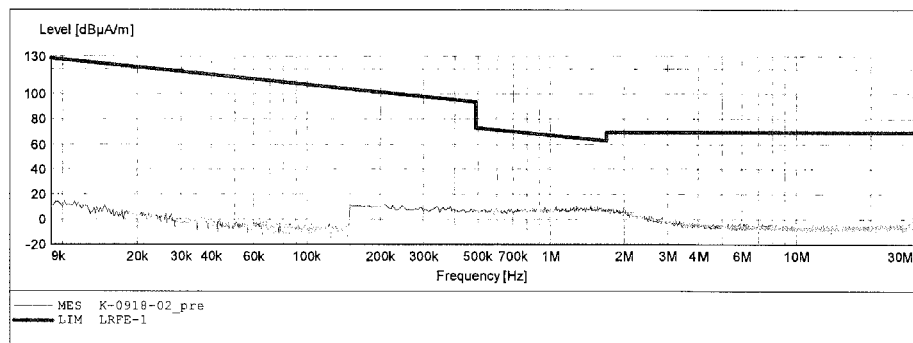


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FCC Class B 3m Radiated

EUT: Bluetooth fat scale M/N:LS208-B7
 Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: Y
 Start of Test: 2015-9-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



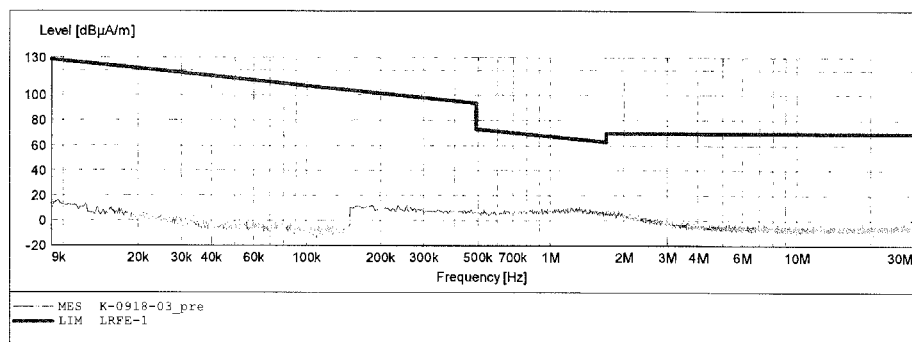
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Bluetooth fat scale M/N:LS208-B7
 Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: Z
 Start of Test: 2015-9-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
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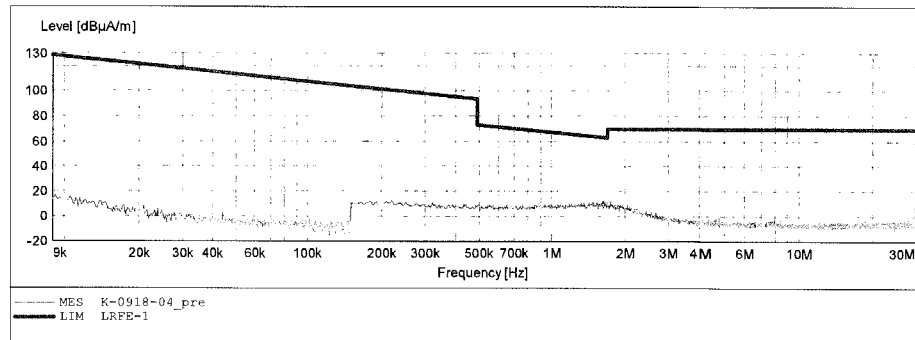


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: Bluetooth fat scale M/N:LS208-B7
 Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd
 Operating Condition: TX 2440MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: X
 Start of Test: 2015-9-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
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150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

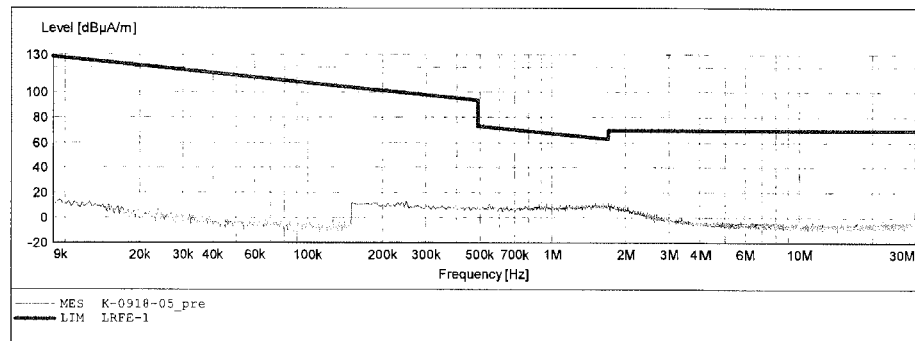


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FCC Class B 3m Radiated

EUT: Bluetooth fat scale M/N:LS208-B7
 Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd
 Operating Condition: TX 2440MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: Y
 Start of Test: 2015-9-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

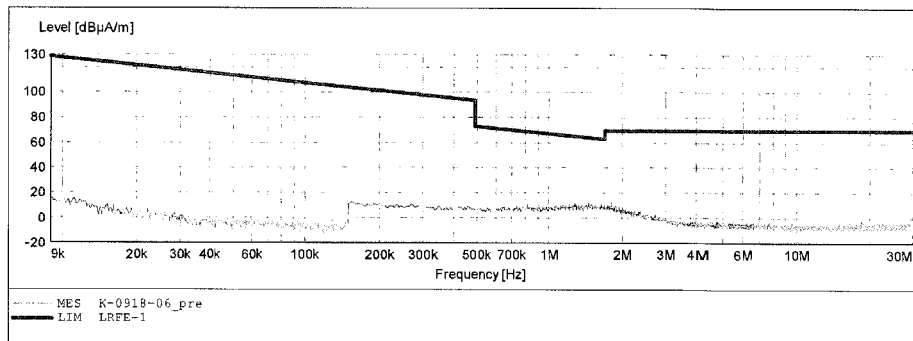


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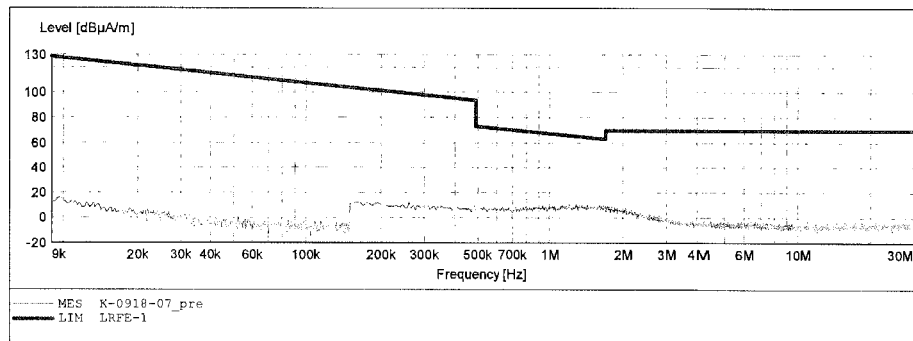


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: Bluetooth fat scale M/N:LS208-B7
 Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: X
 Start of Test: 2015-9-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



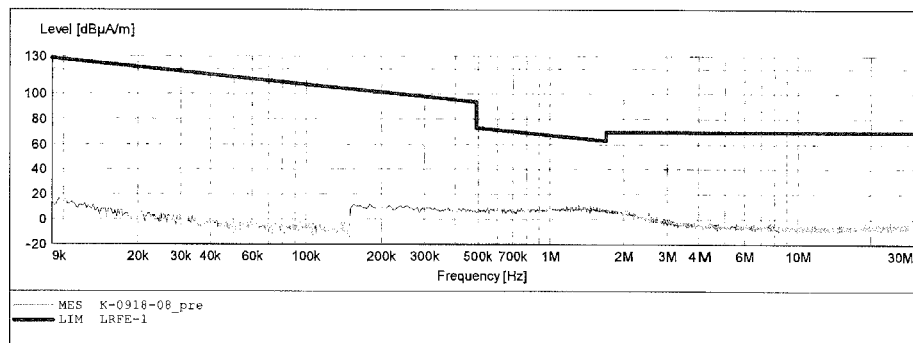
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Bluetooth fat scale M/N:LS208-B7
 Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: Y
 Start of Test: 2015-9-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



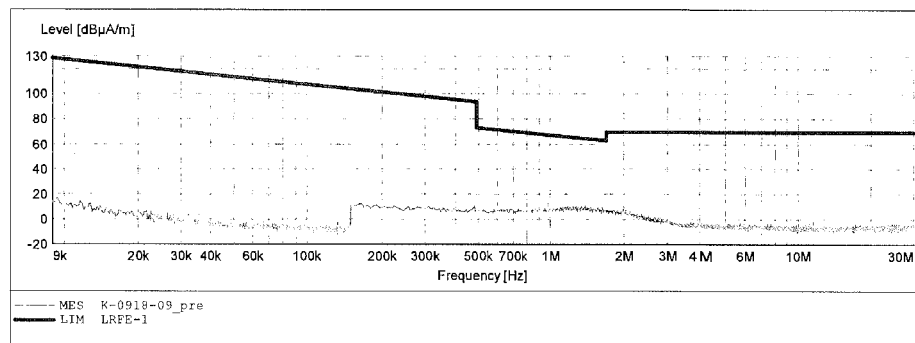
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Bluetooth fat scale M/N:LS208-B7
 Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 4.5V
 Comment: Z
 Start of Test: 2015-9-18 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M




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Site: 2# Chamber

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Job No.: Ian2015 #2824

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2402MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Horizontal

Power Source: DC 4.5V

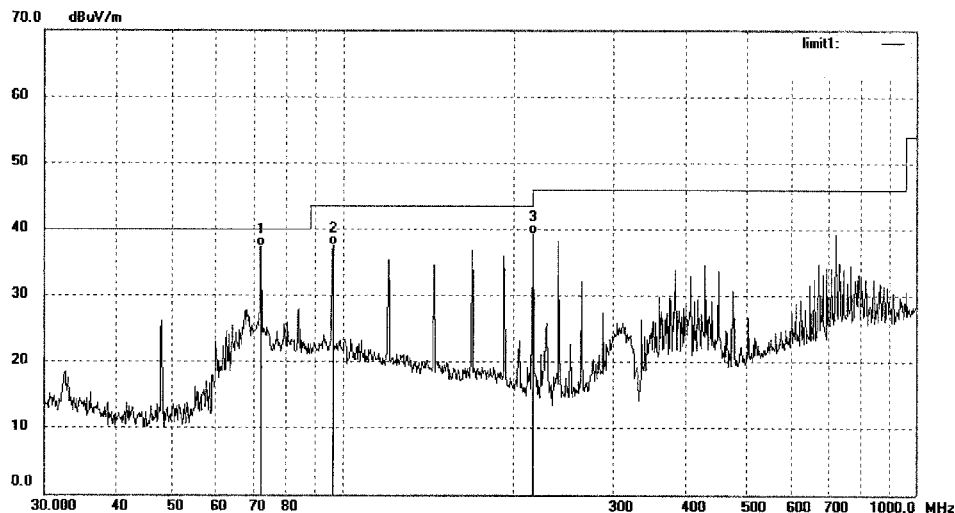
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	72.0841	53.82	-16.38	37.44	40.00	-2.56	QP			
2	96.0986	52.01	-14.44	37.57	43.50	-5.93	QP			
3	216.0240	51.13	-11.85	39.28	46.00	-6.72	QP			


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Job No.: Ian2015 #2825

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2402MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Vertical

Power Source: DC 4.5V

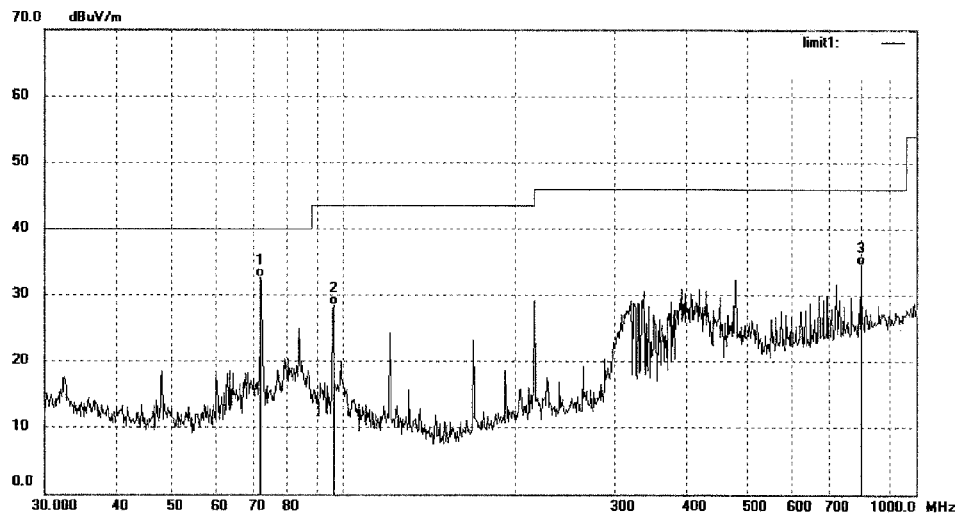
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.8319	49.01	-16.34	32.67	40.00	-7.33	QP			
2	96.0986	42.87	-14.44	28.43	43.50	-15.07	QP			
3	798.9796	34.58	0.02	34.60	46.00	-11.40	QP			


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Job No.: lan2015 #2827

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2440MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Horizontal

Power Source: DC 4.5V

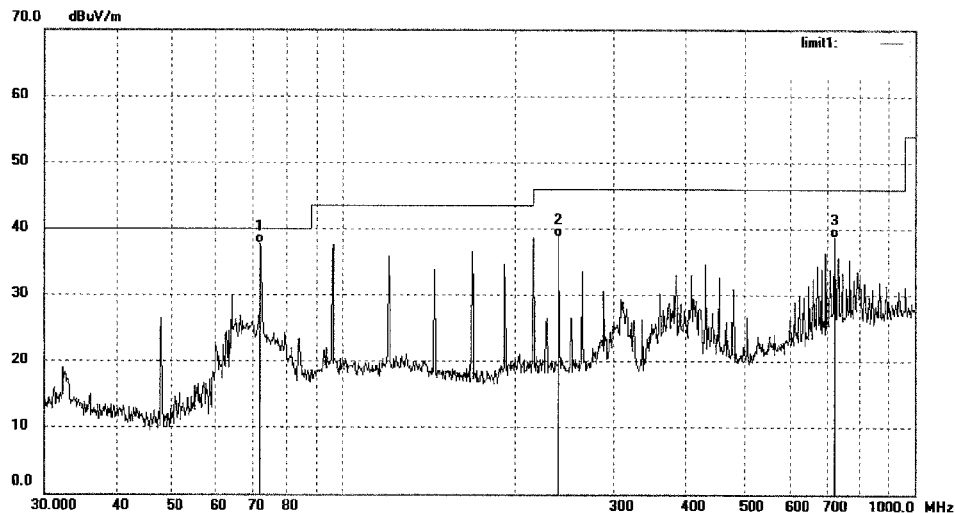
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.8319	54.01	-16.34	37.67	40.00	-2.33	QP			
2	239.9874	49.69	-10.84	38.85	46.00	-7.15	QP			
3	721.7259	40.26	-1.46	38.80	46.00	-7.20	QP			


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Job No.: Ian2015 #2826

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2440MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Vertical

Power Source: DC 4.5V

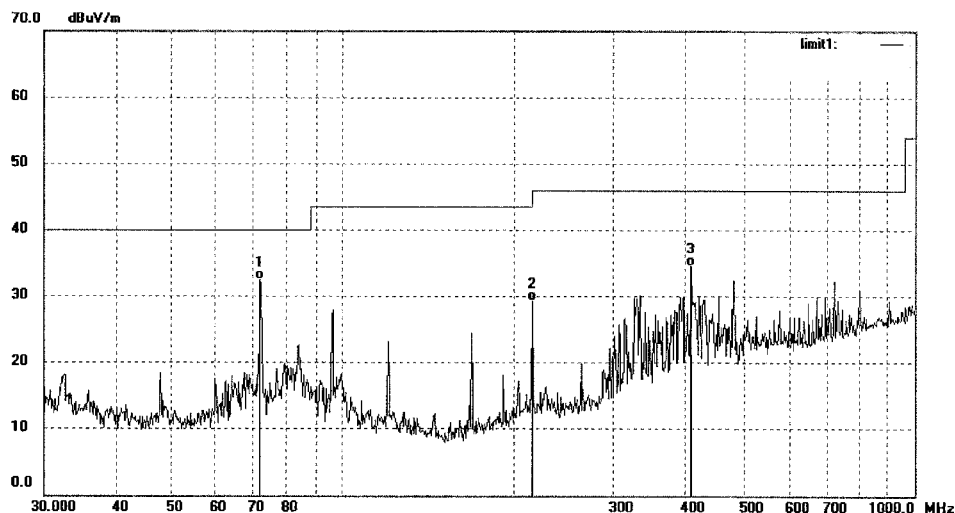
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.8319	48.74	-16.34	32.40	40.00	-7.60	QP			
2	216.0240	41.22	-11.85	29.37	46.00	-16.63	QP			
3	408.9460	41.23	-6.60	34.63	46.00	-11.37	QP			


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Job No.: lan2015 #2828

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2480MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Horizontal

Power Source: DC 4.5V

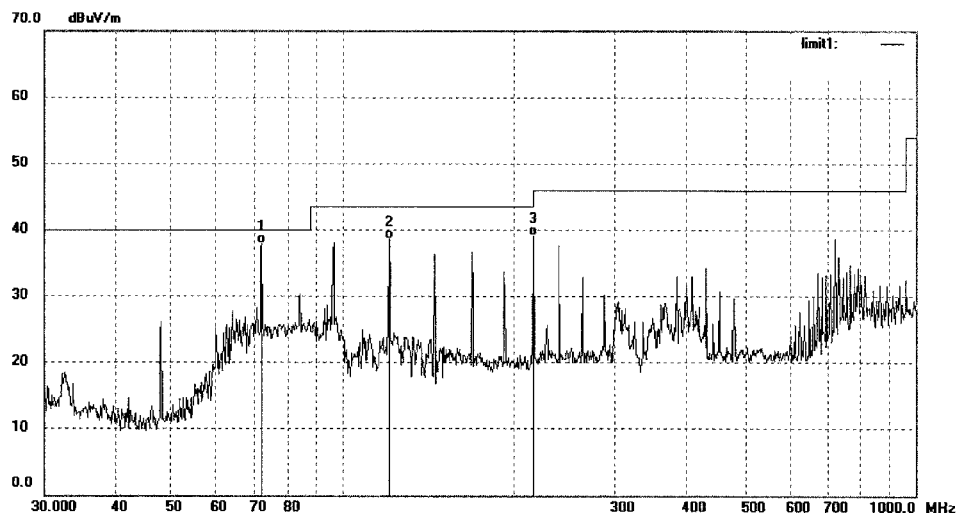
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	72.0841	54.31	-16.38	37.93	40.00	-2.07	QP			
2	119.8555	51.71	-13.15	38.56	43.50	-4.94	QP			
3	216.0240	50.91	-11.85	39.06	46.00	-6.94	QP			


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Job No.: lan2015 #2829

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2480MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Vertical

Power Source: DC 4.5V

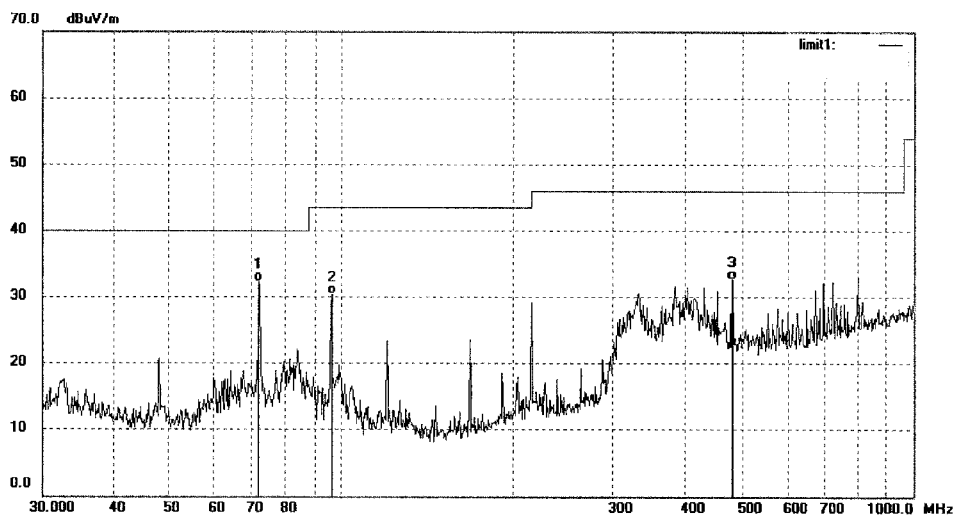
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.8319	48.62	-16.34	32.28	40.00	-7.72	QP			
2	96.0986	44.78	-14.44	30.34	43.50	-13.16	QP			
3	480.5276	38.00	-5.34	32.66	46.00	-13.34	QP			


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Job No.: Ian2015 #2809

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2402MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Horizontal

Power Source: DC 4.5V

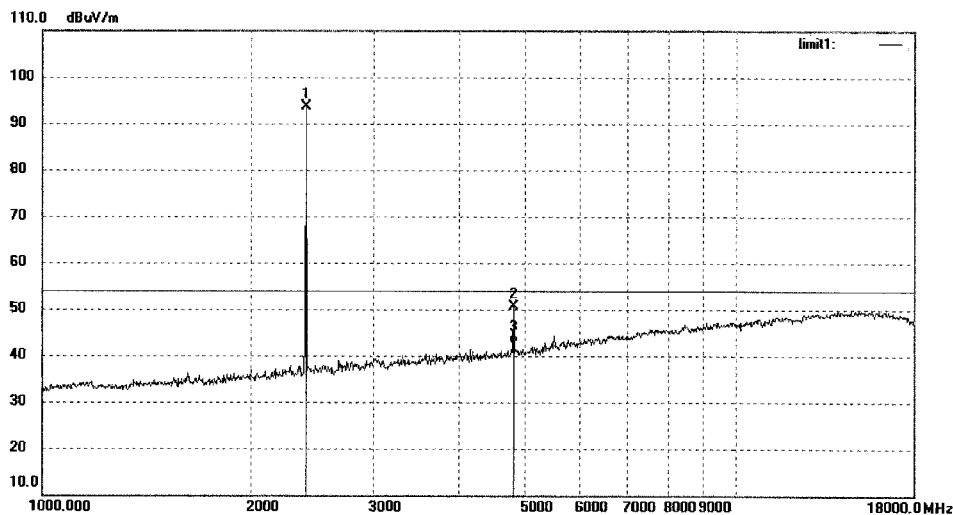
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



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	101.64	-7.92	93.72	/	/	peak			
2	4804.021	53.38	-2.84	50.54	74.00	-23.46	peak			
3	4804.021	45.47	-2.84	42.63	54.00	-11.37	AVG			


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Job No.: lan2015 #2808

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2402MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Vertical

Power Source: DC 4.5V

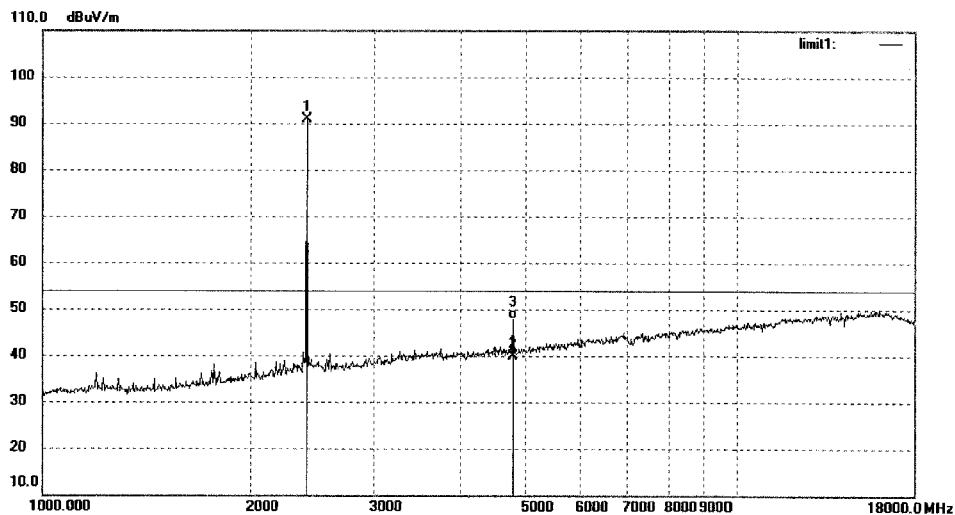
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Time:

Engineer Signature: PEI

Distance: 3m

Note:



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	98.87	-7.92	90.95	/	/	peak			
2	4804.025	42.78	-2.84	39.94	54.00	-14.06	AVG			
3	4804.025	50.70	-2.84	47.86	74.00	-26.14	peak			


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Job No.: Ian2015 #2813

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2440MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Horizontal

Power Source: DC 4.5V

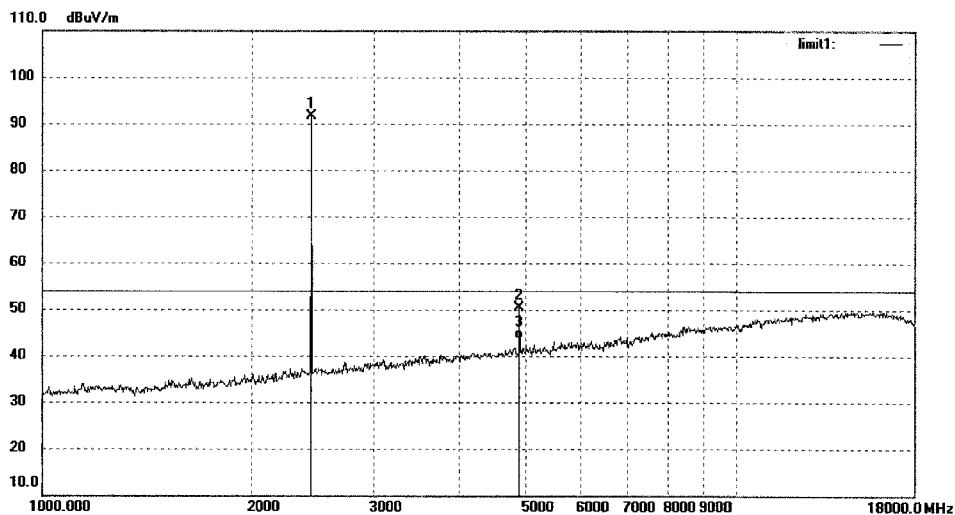
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



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	99.53	-7.85	91.68	/	/	peak			
2	4880.023	53.17	-2.80	50.37	74.00	-23.63	peak			
3	4880.023	46.32	-2.80	43.52	54.00	-10.48	AVG			


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Job No.: lan2015 #2812

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2440MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Vertical

Power Source: DC 4.5V

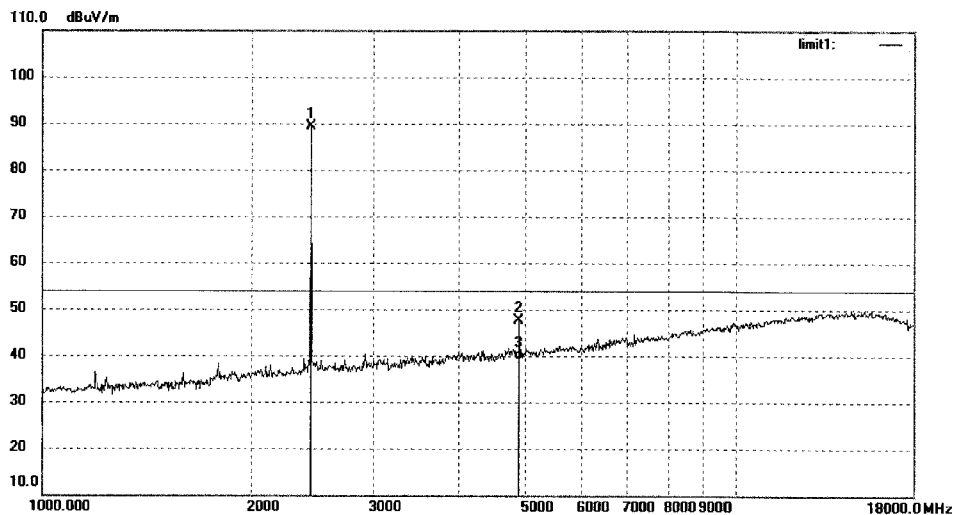
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



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	97.12	-7.85	89.27	/	/	peak			
2	4880.025	50.51	-2.80	47.71	74.00	-26.29	peak			
3	4880.025	41.87	-2.80	39.07	54.00	-14.93	AVG			


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Job No.: lan2015 #2814

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2480MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Horizontal

Power Source: DC 4.5V

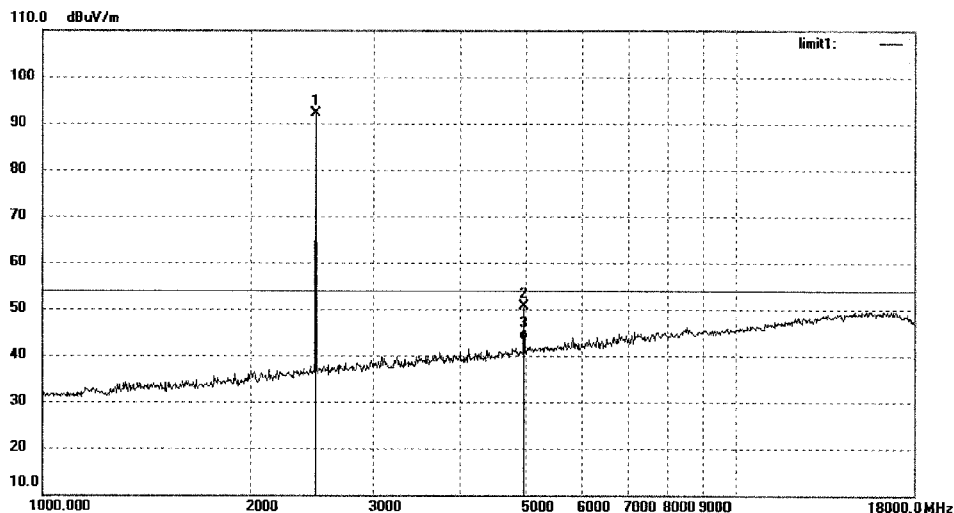
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



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	99.80	-7.75	92.05	/	/	peak			
2	4960.027	53.16	-2.57	50.59	74.00	-23.41	peak			
3	4960.027	46.05	-2.57	43.48	54.00	-10.52	AVG			


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Job No.: lan2015 #2815

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2480MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Vertical

Power Source: DC 4.5V

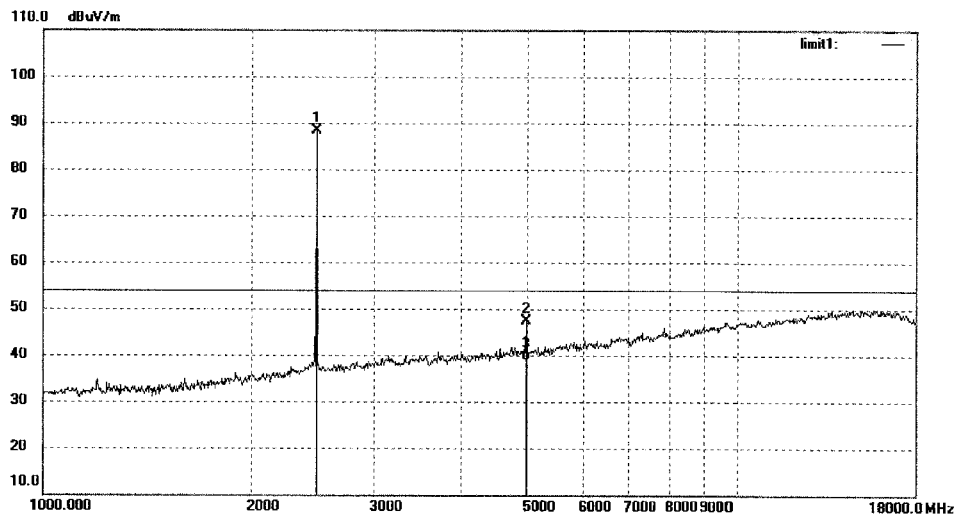
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



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	96.09	-7.75	88.34	/	/	peak			
2	4960.024	49.88	-2.57	47.31	74.00	-26.69	peak			
3	4960.024	41.45	-2.57	38.88	54.00	-15.12	AVG			

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Job No.: Ian2015 #2818

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2402MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Horizontal

Power Source: DC 4.5V

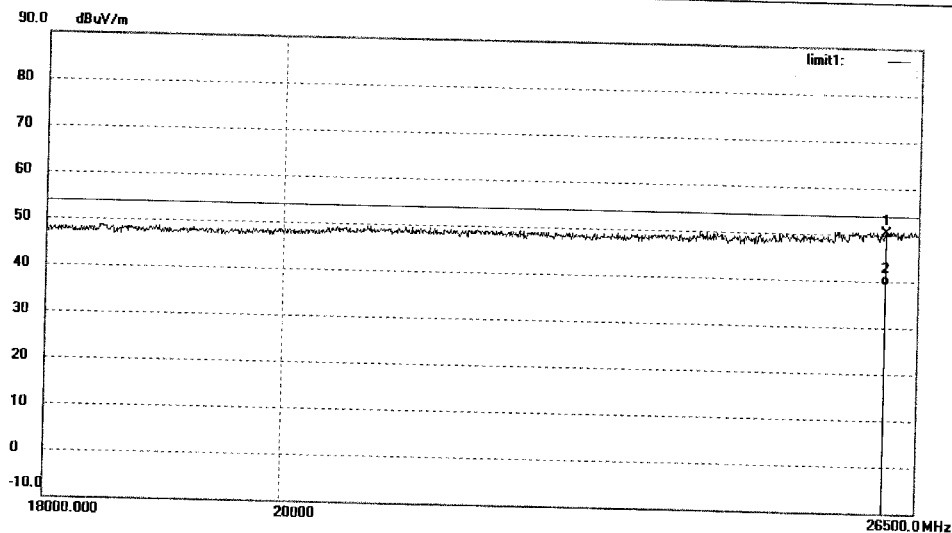
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26123.470	33.99	16.50	50.49	74.00	-23.51	peak			
2	26123.470	22.54	16.50	39.04	54.00	-14.96	AVG			


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Job No.: lan2015 #2819

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2402MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Vertical

Power Source: DC 4.5V

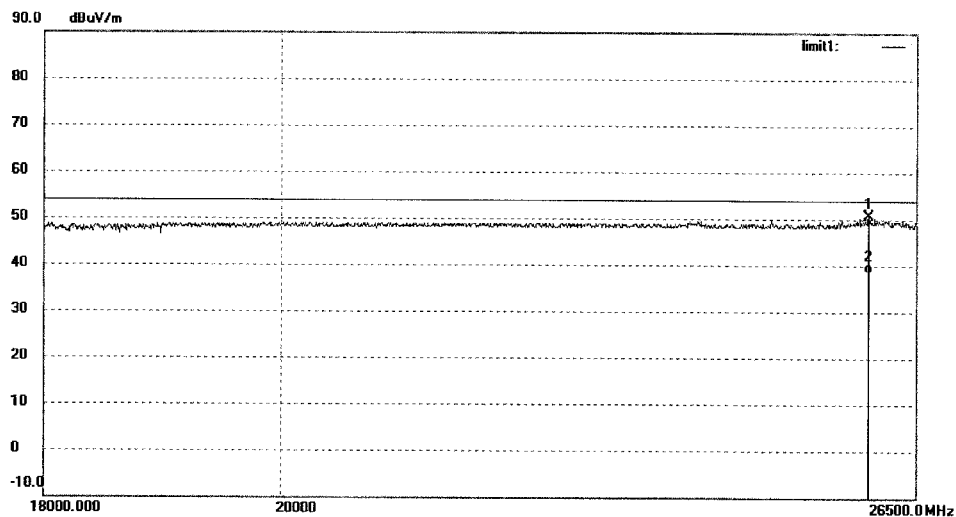
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25952.268	34.08	16.50	50.58	74.00	-23.42	peak			
2	25952.268	21.85	16.50	38.35	54.00	-15.65	AVG			


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Job No.: Ian2015 #2821

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2440MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Horizontal

Power Source: DC 4.5V

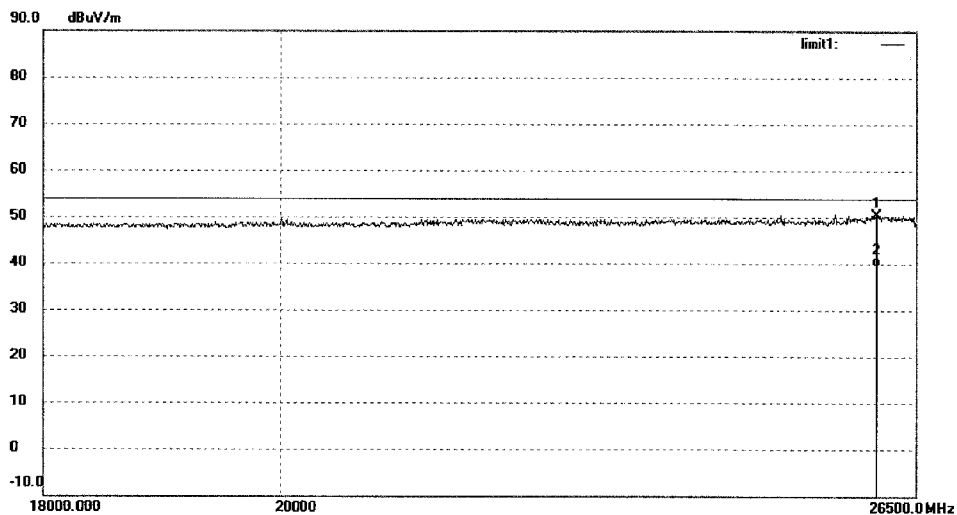
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26042.764	33.98	16.50	50.48	74.00	-23.52	peak			
2	26042.764	22.79	16.50	39.29	54.00	-14.71	AVG			


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Job No.: Ian2015 #2820

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2440MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Vertical

Power Source: DC 4.5V

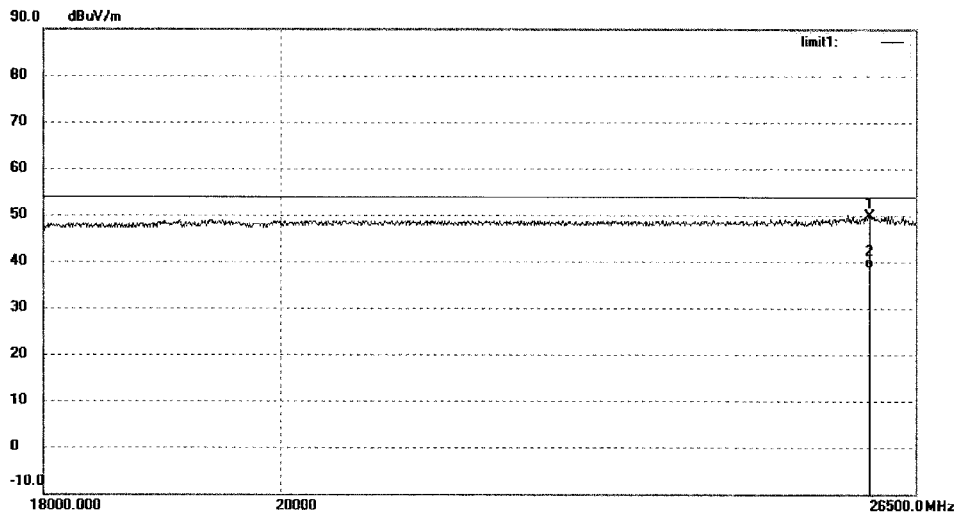
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25962.307	33.47	16.50	49.97	74.00	-24.03	peak			
2	25962.307	22.08	16.50	38.58	54.00	-15.42	AVG			

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Job No.: Ian2015 #2822

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2480MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Horizontal

Power Source: DC 4.5V

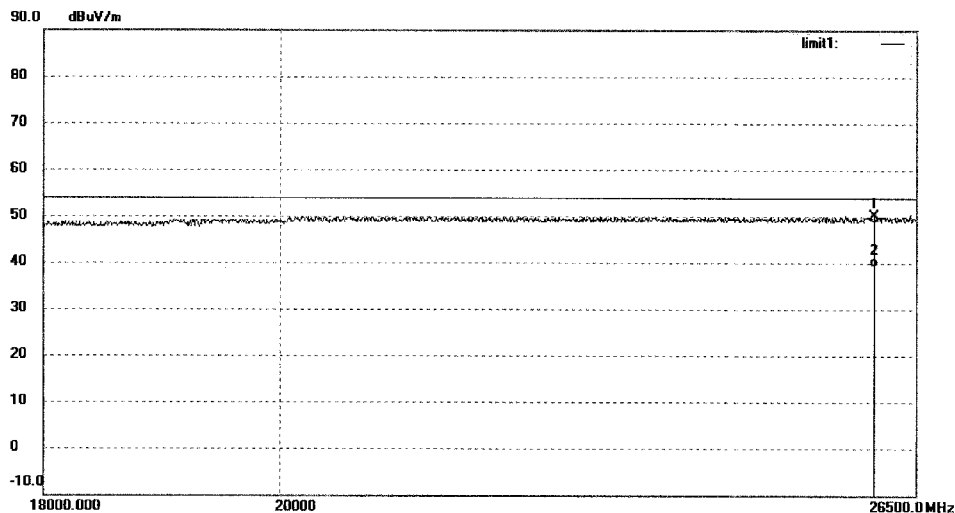
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26022.626	33.52	16.50	50.02	74.00	-23.98	peak			
2	26022.626	22.69	16.50	39.19	54.00	-14.81	AVG			

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Job No.: Ian2015 #2823

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2480MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Vertical

Power Source: DC 4.5V

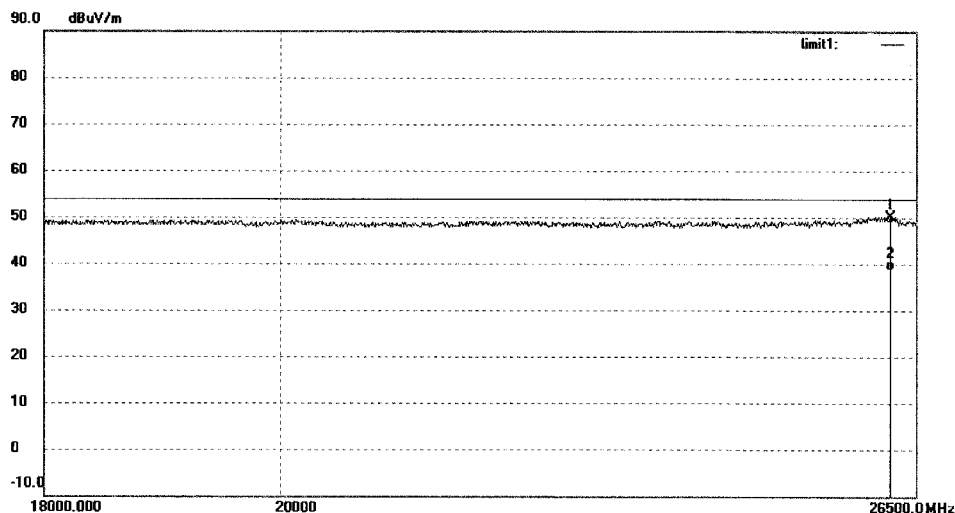
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26204.426	33.71	16.50	50.21	74.00	-23.79	peak			
2	26204.426	22.05	16.50	38.55	54.00	-15.45	AVG			

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Test Plot of Band Edge


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Job No.: Ian2015 #2810

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2402MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Horizontal

Power Source: DC 4.5V

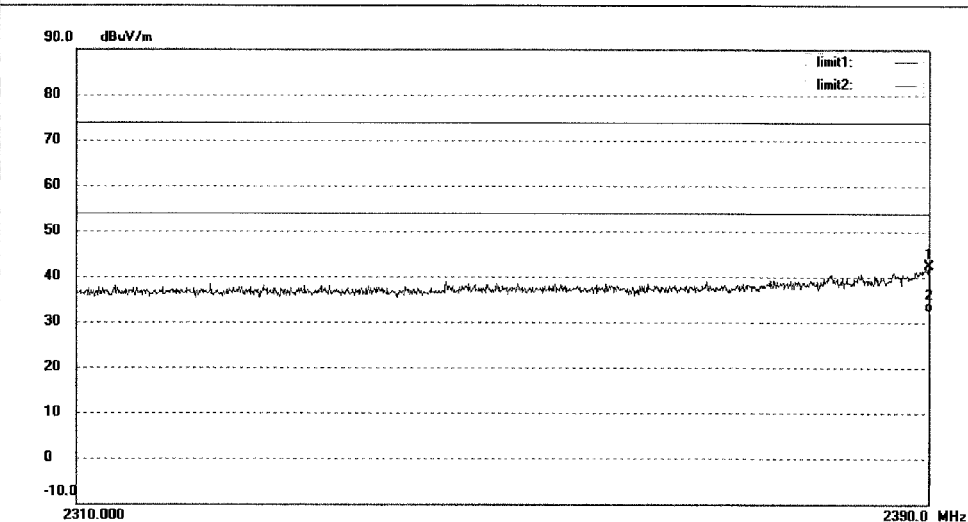
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	50.24	-7.96	42.28	74.00	-31.72	peak			
2	2390.000	40.27	-7.96	32.31	54.00	-21.69	AVG			

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Job No.: Ian2015 #2811

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2402MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Vertical

Power Source: DC 4.5V

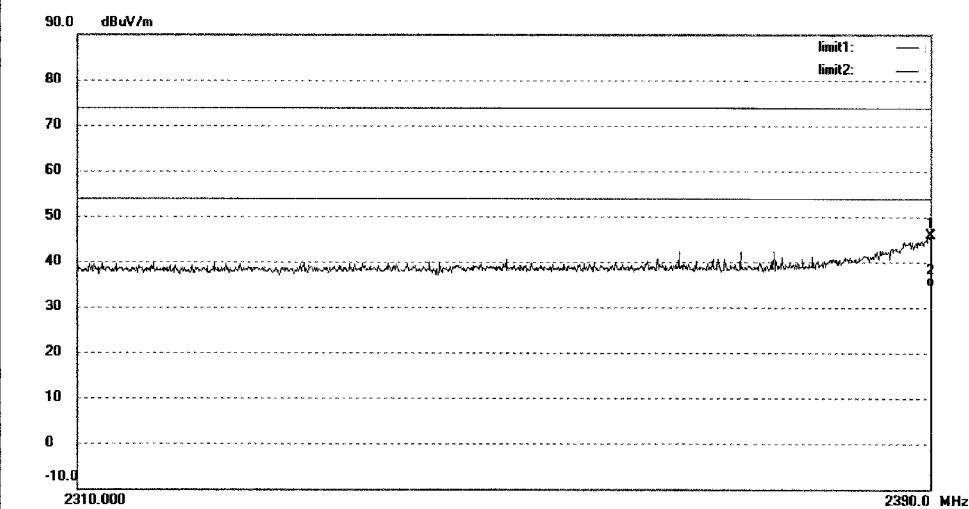
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	53.76	-7.96	45.80	74.00	-28.20	peak			
2	2390.000	42.69	-7.96	34.73	54.00	-19.27	AVG			

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Job No.: Ian2015 #2817

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2480MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Horizontal

Power Source: DC 4.5V

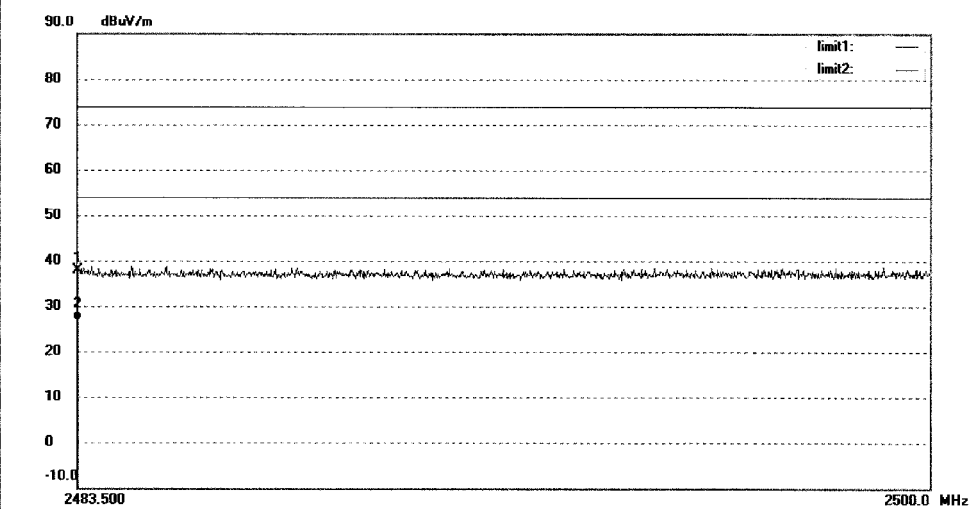
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



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	45.58	-7.75	37.83	74.00	-36.17	peak			
2	2483.500	34.63	-7.75	26.88	54.00	-27.12	AVG			

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Job No.: Ian2015 #2816

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: TX 2480MHz

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Vertical

Power Source: DC 4.5V

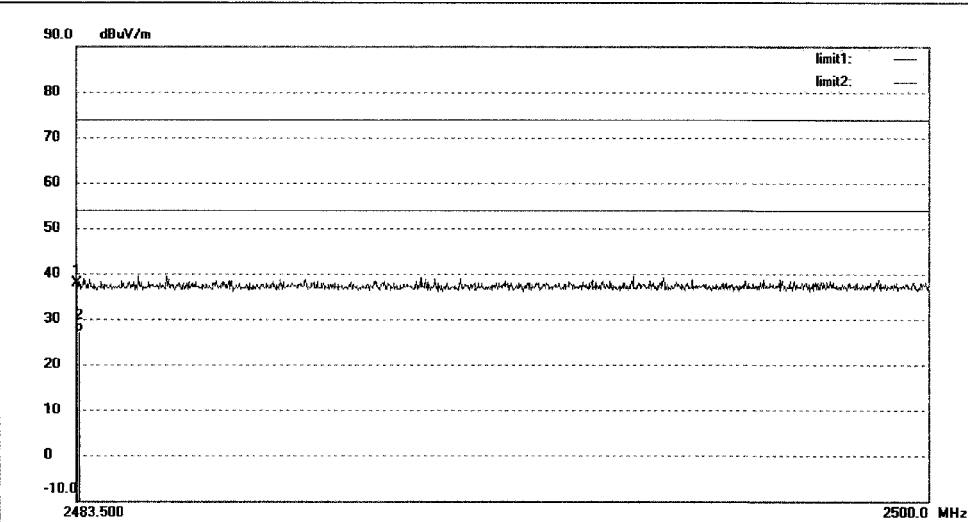
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



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	45.51	-7.75	37.76	74.00	-36.24	peak			
2	2483.500	34.87	-7.75	27.12	54.00	-26.88	AVG			

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5.1.7 Radiated Emission**RESULT:****Pass**

Date of testing	:	2015-09-19
Test standard	:	FCC Part 15.109 (a)
Test procedure	:	ANSI C63.4: 2014
Frequency range	:	30 - 6000MHz
Equipment Classification	:	Class B
Limits	:	FCC Part 15.109(a)
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Input Voltage	:	AC 120V, 60Hz
Operation mode	:	B
Earthing	:	Not connected
Ambient temperature	:	24°C
Relative humidity	:	53%
Atmospheric pressure	:	101kPa

Note: the highest frequency generated in EUT is below 1GHz, hence the highest scan frequency was carried out up to 5GHz only.

For details refer to following test plot.


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Job No.: Ian2015 #2831

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: On

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Horizontal

Power Source: DC 4.5V

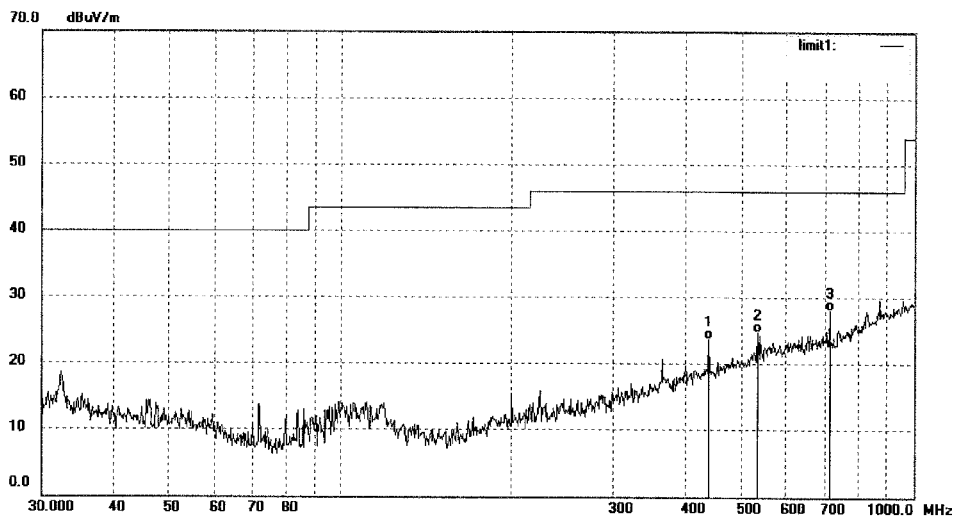
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	440.1963	29.69	-5.90	23.79	46.00	-22.21	QP			
2	535.7073	28.69	-3.92	24.77	46.00	-21.23	QP			
3	714.1734	29.65	-1.56	28.09	46.00	-17.91	QP			


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Job No.: Ian2015 #2830

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: On

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Vertical

Power Source: DC 4.5V

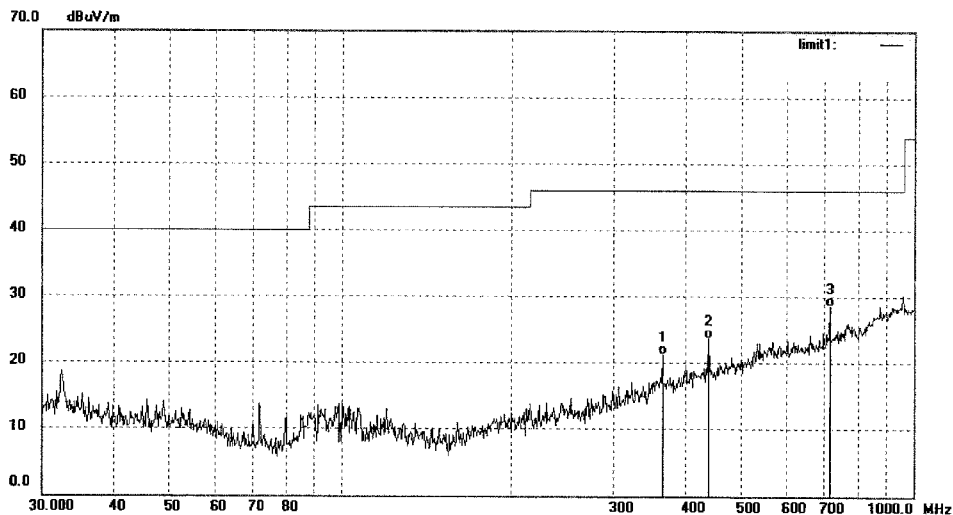
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	364.2595	28.86	-7.57	21.29	46.00	-24.71	QP			
2	440.1963	29.69	-5.90	23.79	46.00	-22.21	QP			
3	714.1734	30.15	-1.56	28.59	46.00	-17.41	QP			


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Job No.: Ian2015 #2832

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: On

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Horizontal

Power Source: DC 4.5V

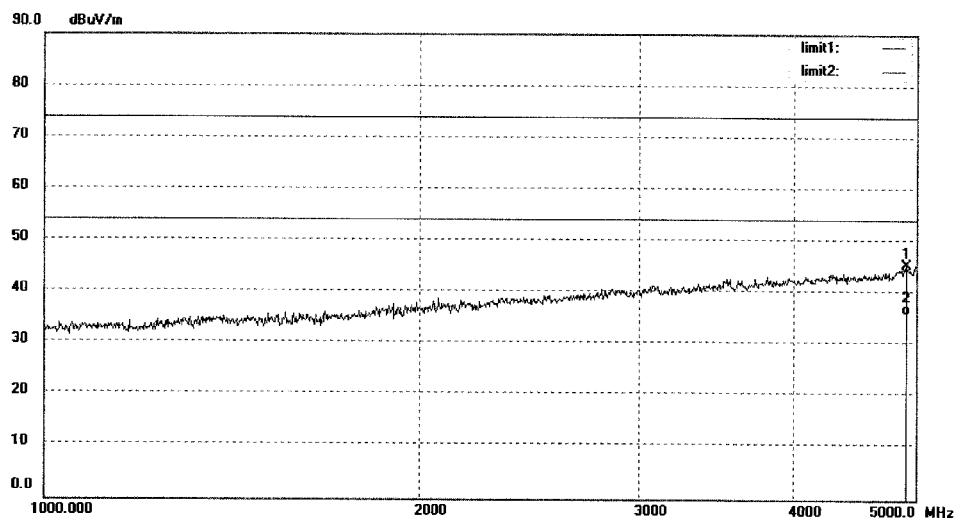
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4904.360	45.14	0.25	45.39	74.00	-28.61	peak			
2	4904.360	35.58	0.25	35.83	54.00	-18.17	AVG			


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Job No.: lan2015 #2833

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth fat scale

Mode: On

Model: LS208-B7

Manufacturer: Guangdong Transtek Medical Electronics Co.,Ltd

Polarization: Vertical

Power Source: DC 4.5V

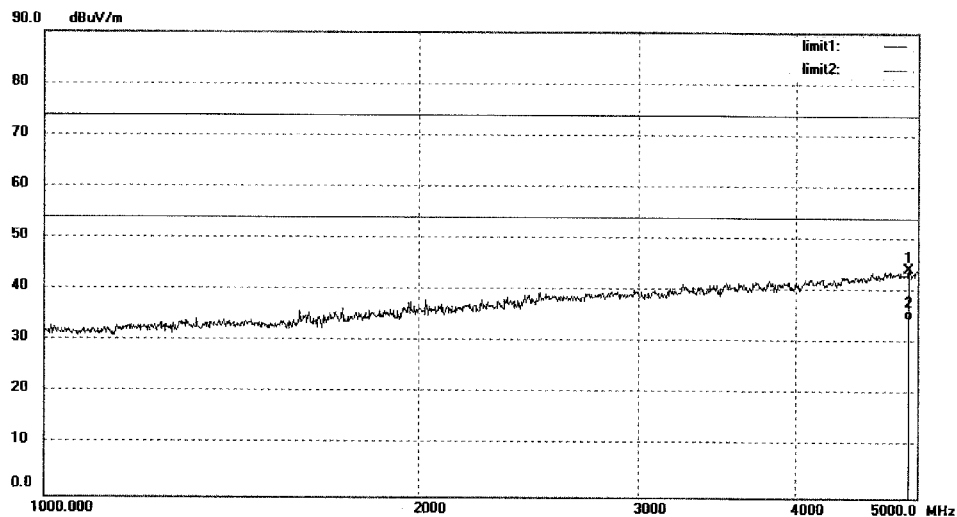
Date: 2015/09/19

Time:

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4920.172	43.81	0.33	44.14	74.00	-29.86	peak			
2	4920.172	34.16	0.33	34.49	54.00	-19.51	AVG			

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1. Safety Human exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields

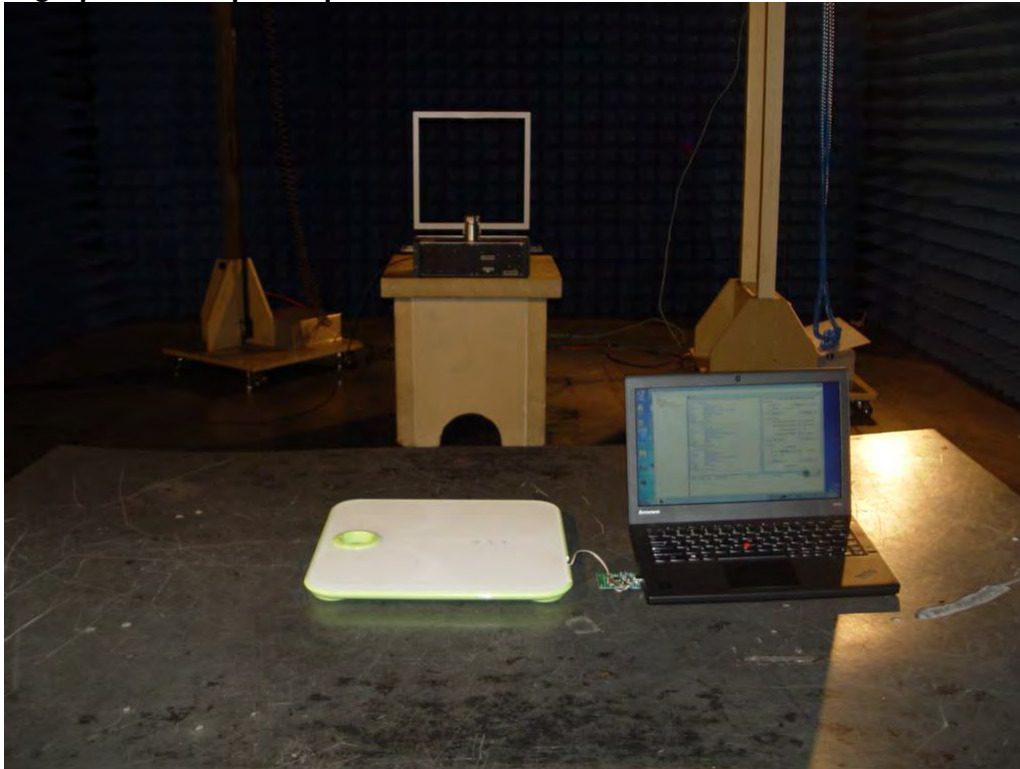
RESULT:**Pass**

Test standard : FCC KDB Publication 447498 D01 v05r02

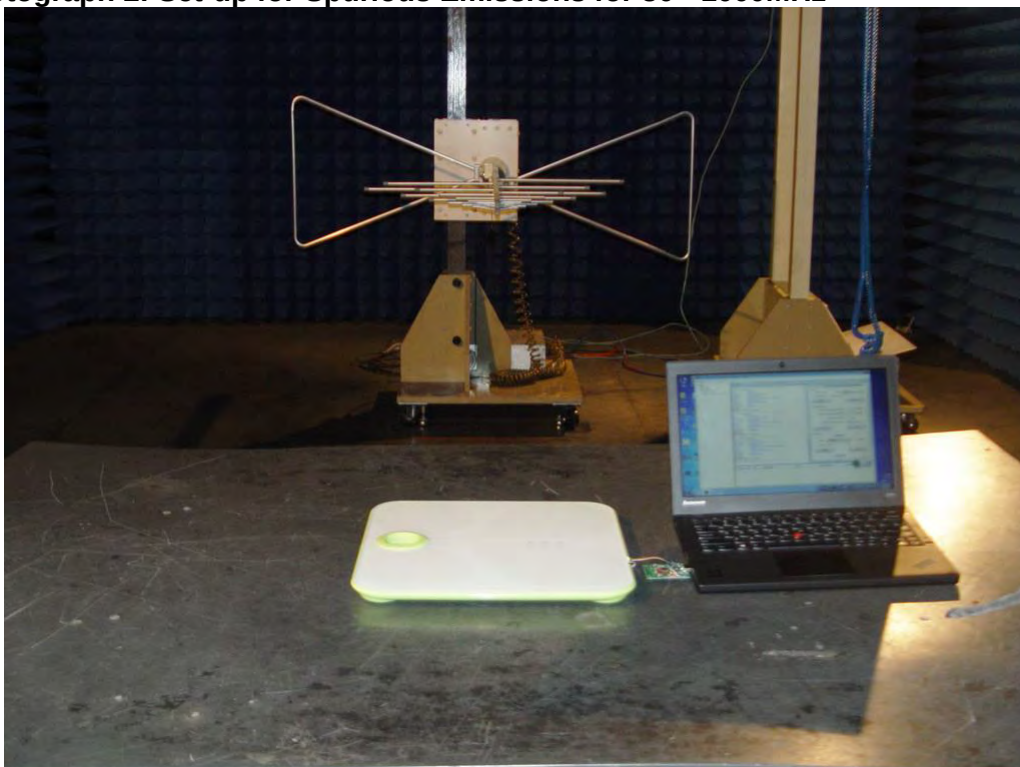
Since maximum radiated power of the transmitter is 0.895mW(-0.48dBm)<10mW, and the distance from EUT to human is ≥ 5 mm, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v05r02.

2. Photographs of the Test Set-Up

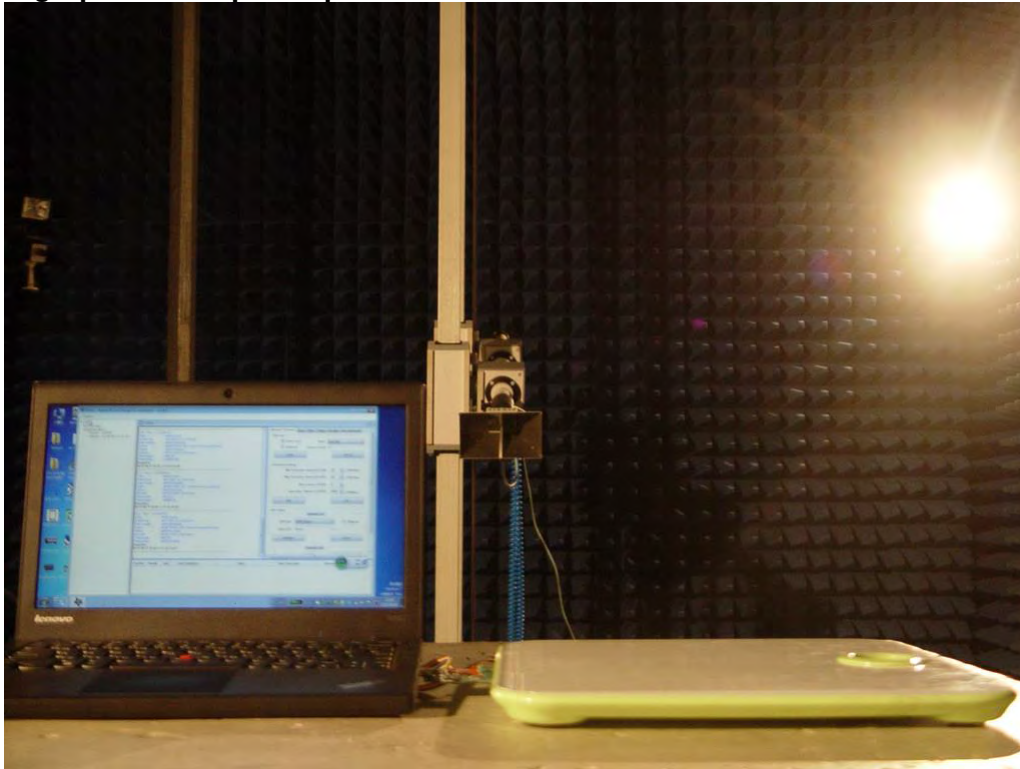
Photograph 1: Set-up for Spurious Emissions for below 30MHz



Photograph 2: Set-up for Spurious Emissions for 30 - 1000MHz



Photograph 3: Set-up for Spurious Emissions for 1 - 18GHz



Photograph 4: Set-up for Spurious Emissions for 18 - 26.5GHz



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