

Prüfbericht-Nr.: <i>Test Report No.:</i>	50055015 001	Auftrags-Nr.: <i>Order No.:</i>	164066510	Seite 1 von 32 <i>Page 1 of 32</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	20.06.2016	
Auftraggeber: <i>Client:</i>	SolidLabs, Unit 19, 14 Southgate Road, London, N1 3LY, United Kingdom			
Prüfgegenstand: <i>Test item:</i>	Cubetto			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	CUBT001			
Auftrags-Inhalt: <i>Order content:</i>	FCC/IC Test report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.209 FCC KDB publication 447498 D01 v06 RSS-247 Issue 1 May 2015 RSS-Gen Issue 4 November 2014 RSS-102 Issue 5 March 2015			
Wareneingangsdatum: <i>Date of receipt:</i>	15.08.2016	Refer to photo documents		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000392067-003, A000392067-005			
Prüfzeitraum: <i>Testing period:</i>	18.08.2016 - 02.09.2016			
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:		
05.09.2016	Sam Lin / Assistant Manager	06.09.2016	Winnie Hou / 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: This report is FCC/IC test report for Bluetooth device. FCC ID: 2AHFBCUBT001 IC: 21133-CUBT001 HVIN: 1.0				
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. 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.				

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 PEAK OUTPUT POWER

RESULT: Pass

5.1.3 6dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.5 POWER SPECTRAL DENSITY

RESULT: Pass

5.1.6 SPURIOUS EMISSIONS

RESULT: Pass

5.1.7 CONDUCTED EMISSIONS

RESULT: Not applicable

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Bluetooth 4.0 Low Energy mode

Appendix B: Test Results of RF Exposure - Bluetooth 4.0 Low Energy mode

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051 & IC Registration Number: 5077A-2)

F1, Bldg A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park,
Nanshan District, Shenzhen, 518057, 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
Radio Spectrum Test				
Spectrum Analyzer	R & S	FSV40	101495	Jan.9, 2017
Conducted emissions				
Test Receiver	R & S	ESCS30	100307	Jan.9, 2017
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan.9, 2017
Pulse Limiter	R & S	ESH3-Z2	100815	Jan.9, 2017
50ΩCoaxial Switch	Anritsu Corp	MP59B	6200283933	Jan.9, 2017
Radiated emissions				
Spectrum Analyzer	R & S	FSV40	101495	Jan.9, 2017
Test Receiver	R & S	ESCS30	100307	Jan.9, 2017
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan.14, 2017
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan.14, 2017
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan.14, 2017
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan.14, 2017
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	Jan.9, 2017
Pre-Amplifier	R & S	CBLU11835 40-01	3791	Jan.9, 2017
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan.9, 2017
RF Coaxial Cable	SUHNER	N-3m	No.8	Jan.9, 2017
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	Jan.9, 2017
RF Coaxial Cable	SUHNER	N-6m	No.10	Jan.9, 2017
RF Coaxial Cable	RESENBERGER	N-12m	No.11	Jan.9, 2017
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	Jan.9, 2017

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

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table,

Items		Extended Uncertainty
CE	Disturbance Voltage (dBuV)	U=1.94dB, k=2, σ =95%
RE (9kHz-30MHz)	Field strength (dBuV/m)	U=3.08dB, k=2, σ =95%
RE (30-1000MHz)	Field strength (dBuV/m)	U=4.42dB, k=2, σ =95%
RE (above 1000MHz)	Field strength (dBuV/m)	U=4.06dB, k=2, σ =95%

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Accurate Technology Co., Ltd. facility located at F1, Bldg A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan District, Shenzhen, 518057, 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 wireless toy using Bluetooth technology.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment:	Cubetto
Type Designation:	CUBT001
FCC ID:	2AHFBCUBT001
IC:	21133-CUBT001
HVIN:	1.0
Type of Equipment:	Class B digital equipment
Equipment Class:	DTS
Wireless Technology:	Bluetooth 4.0 Low Energy
Rated output power:	-5 dBm
Operating Frequency Range:	2402-2480 MHz for Bluetooth
Channel Number:	40 channels for Bluetooth 4.0 Low Energy
Channel Separation:	2 MHz for Bluetooth 4.0 Low Energy
Type of Modulation:	GFSK
Operating Voltage:	DC 4.5V via 3xAA ALKALINE Battery
Operating Temperature Range:	-20°C to 55°C
Antenna Type:	Integral PCB Printed Antenna
Smart Antenna Systems:	Not Applicable
Number of Antenna:	1
Antenna Gain:	Max. -1dBi for Bluetooth

Table 3: List of Radio Frequency Channel, Bluetooth 4.0 Low Energy

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. Bluetooth Low Energy operating
 - 1. Transmitting
 - i. Low channel
 - ii. Middle channel
 - iii. High channel
 - 2. Receiving
 - i. Low channel
 - ii. Middle channel
 - iii. High channel
- B. 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

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation 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.

During testing, test software (nRFgo Studio) provided by the applicant was used to control the operating channel as well as output power for Bluetooth operation.

Table 4: List of Frequencies under Test, Bluetooth 4.0 Low Energy operation

RF Channel of Bluetooth 4.0 Low Energy			
Test Channel	Channel number	Frequency (MHz)	Remark
Low	0	2402.00	Max. output power level
Middle	19	2440.00	Max. output power level
High	39	2480.00	Max. output power level

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Notebook PC	Lenovo	ThinkPad X240	SL10F31638

Table 6: List of Accessories and Cables

Interface(s) / Port (s)	Max. cable length, Shielding	Cable classification
--	--	--

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 below 1 GHz

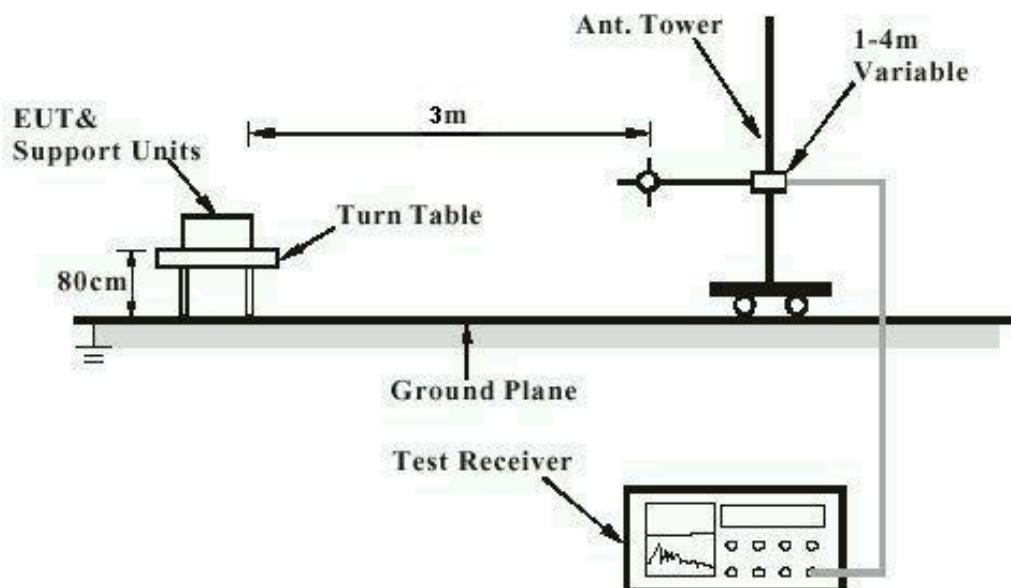


Diagram of Measurement Configuration for Radiation Test above 1 GHz

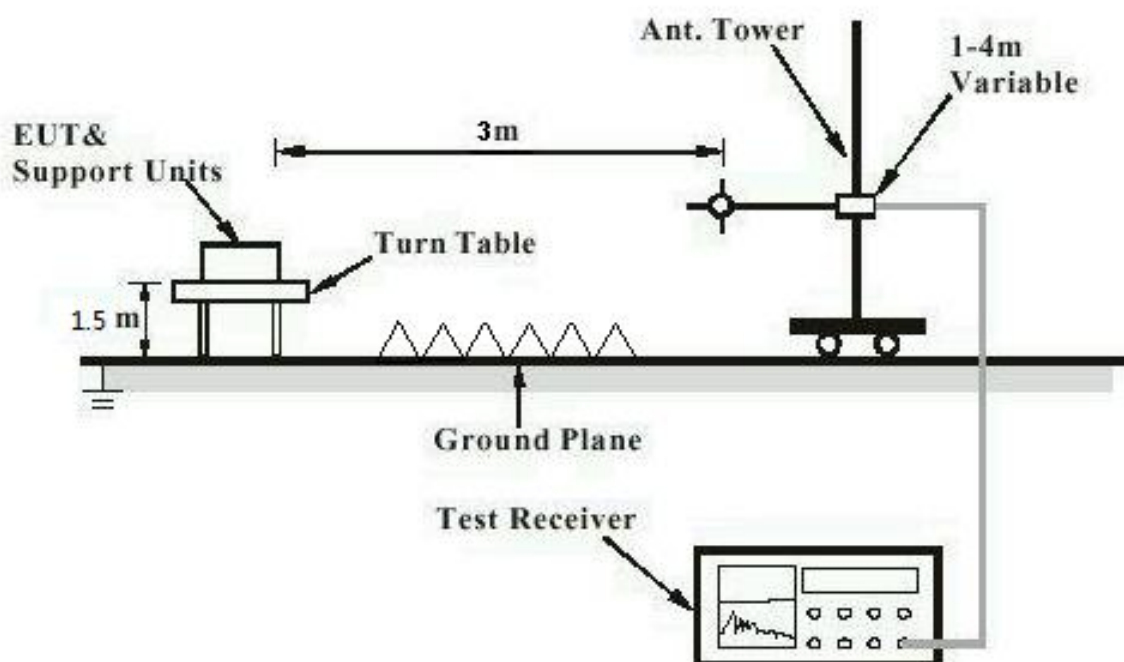


Diagram of Measurement Equipment Configuration for Conduction Measurement

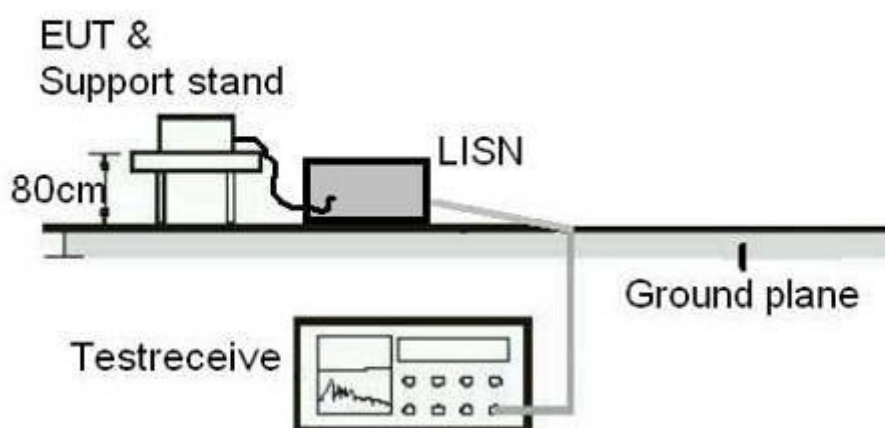
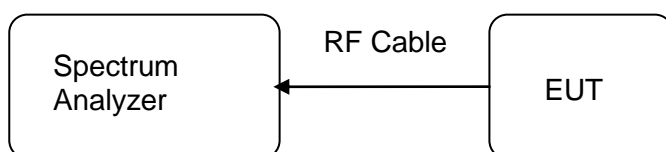


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Test Requirements & Test Suites - Part 15 Subpart C DTS equipment

5.1.1 Antenna Requirement

RESULT:**Pass**

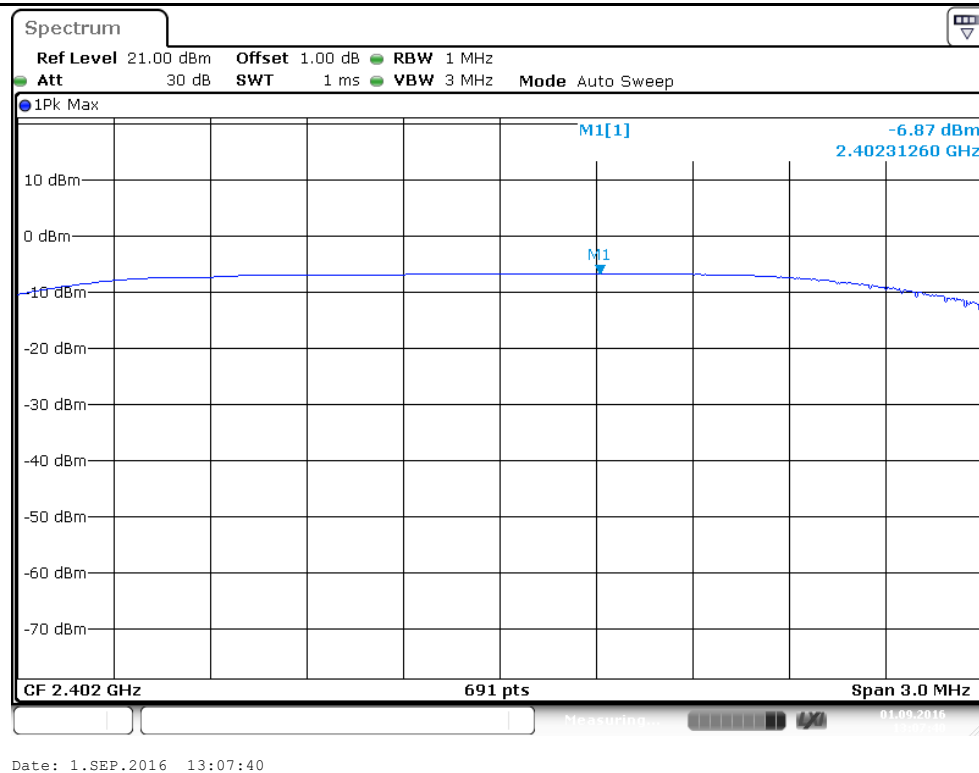
Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is -1 dBi for Bluetooth, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to compliance the provision.

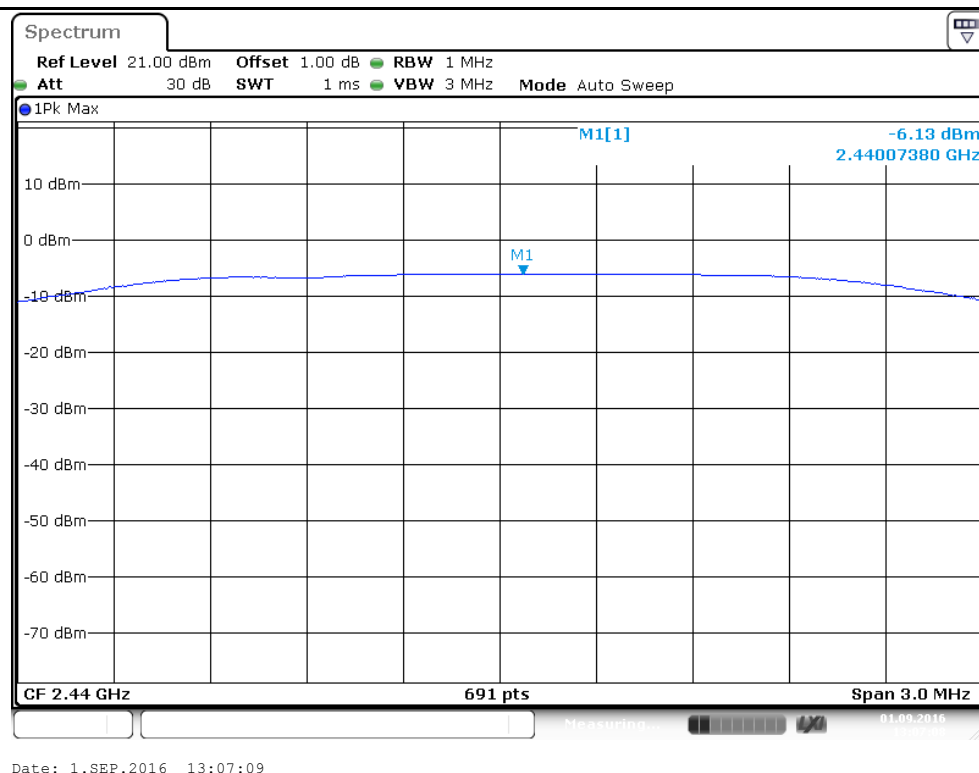
Refer to EUT photo for details.

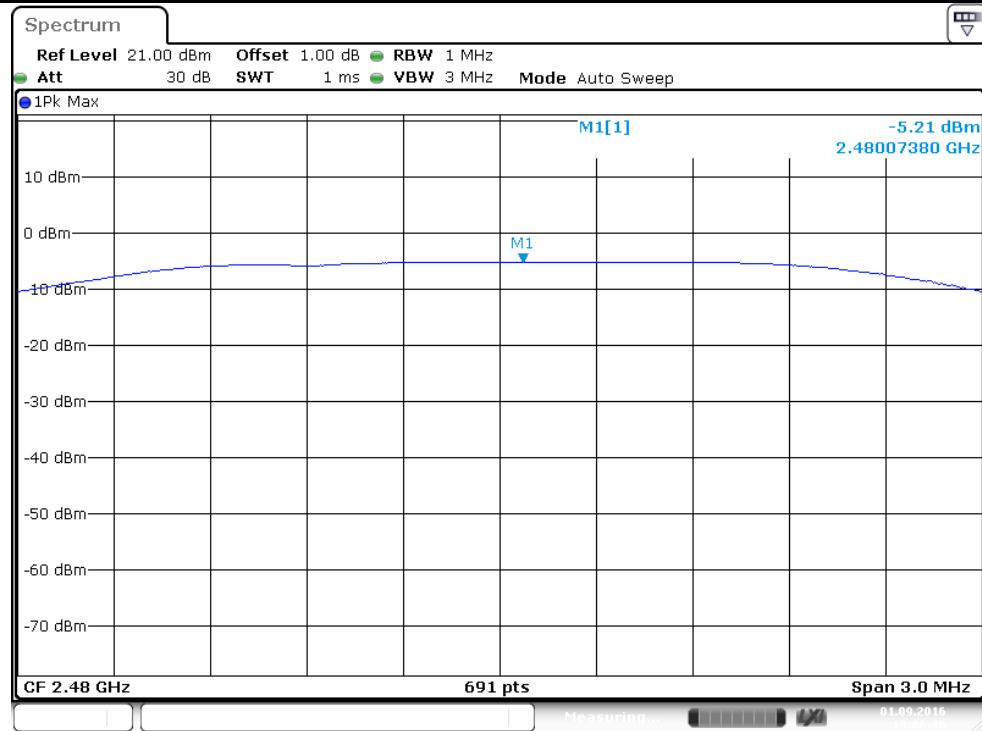
Channel	Channel Frequency (MHz)	Bluetooth 4.0 Low Energy					
		Measured Result (dBm)	Cable Loss (dB)	Peak Output Power		Limit (W)	Verdict
				dBm	W		
Low Channel	2402	-6.87	0	-6.87	0.00021	1	Pass
Middle Channel	2440	-6.13	0	-6.13	0.00024	1	Pass
High Channel	2480	-5.21	0	-5.21	0.00030	1	Pass
Note: 1. Peak Output Power (dBm) = Measured Result + Cable Loss 2. Cable loss included in measured result							

Test Graph of Peak Output Power, Bluetooth 4.0 Low Energy mode Low Channel



Middle Channel



High Channel


Date: 1.SEP.2016 13:06:36

5.1.3 6dB Bandwidth and 99% Bandwidth

RESULT:**Pass**

Date of testing : 2016-08-18 to 2016-09-02
Test standard : FCC Part 15.247(a)(2)
RSS-247 Section 5.2
RSS-Gen Issue 4 Clause 6.6
Basic standard : ANSI C63.10:2013
FCC KDB 558074 v03r05
Kind of test site : Shielded room

Test setup

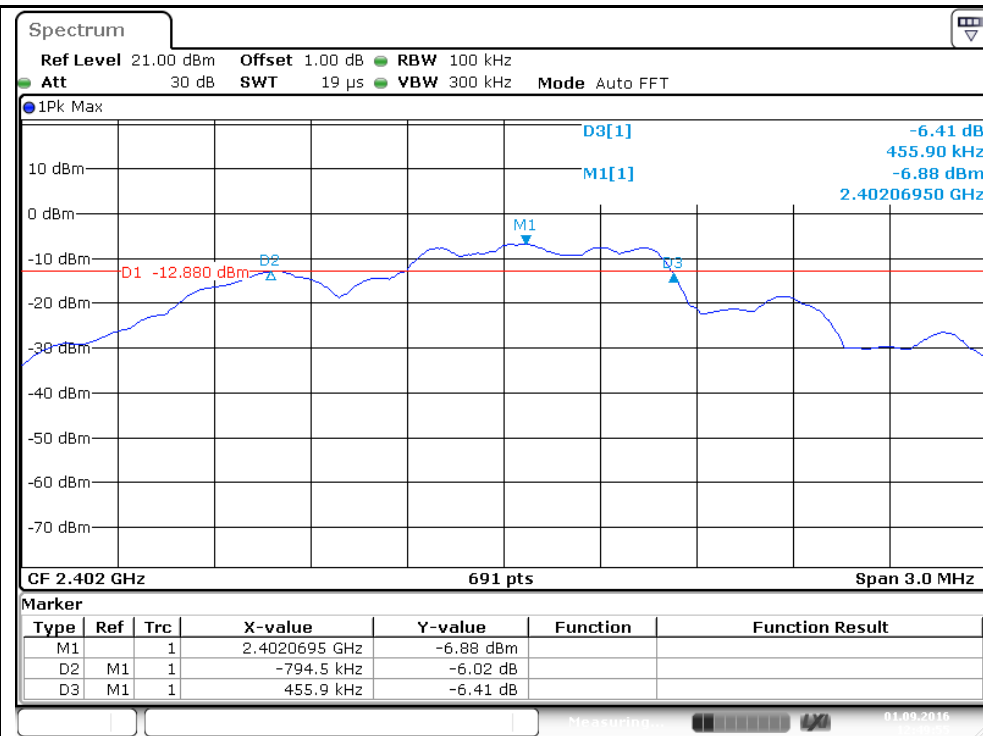
Test Channel : Low/ Middle/ High
Operation Mode : A.1
Ambient temperature : 23°C
Relative humidity : 51%
Atmospheric pressure : 101.0 kPa

Table 8: Test result of 6dB Bandwidth and 99% Bandwidth, Bluetooth Low Energy operation

Bluetooth 4.0 Low Energy					
Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	99% Bandwidth (kHz)	Limit (kHz)	Verdict
Low Channel	2402	1250.4	2092.62	at least 500	Pass
Mid Channel	2440	1185.2	2222.87	at least 500	Pass
High Channel	2480	1154.9	2162.08	at least 500	Pass

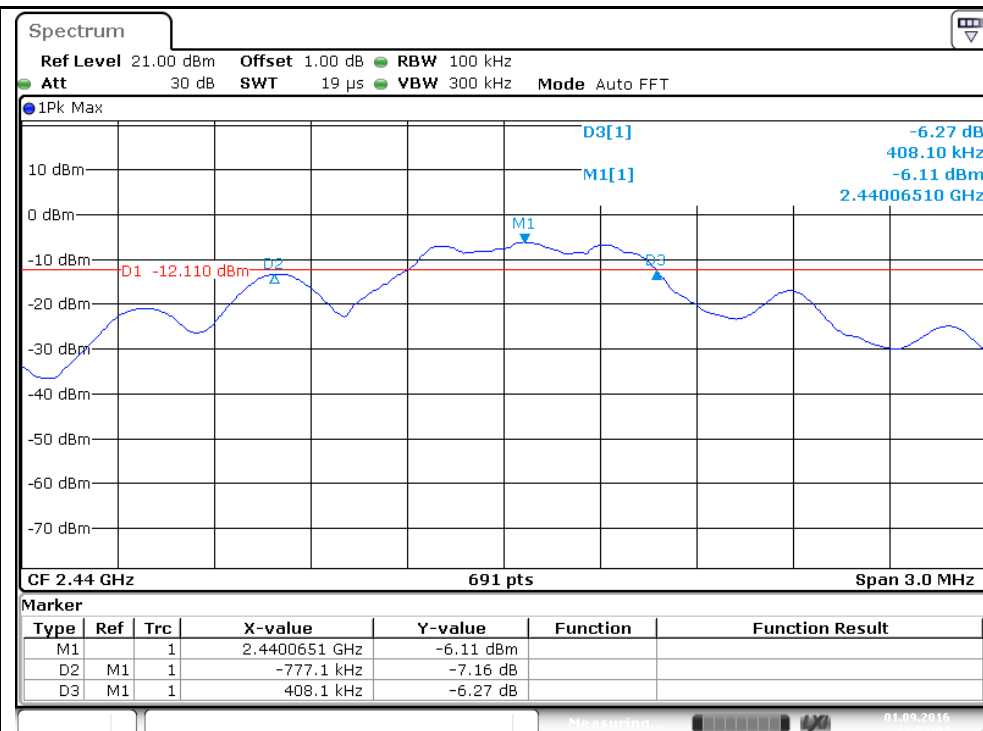
Test Graph of 6dB Bandwidth, Bluetooth 4.0 Low Energy mode

Low Channel



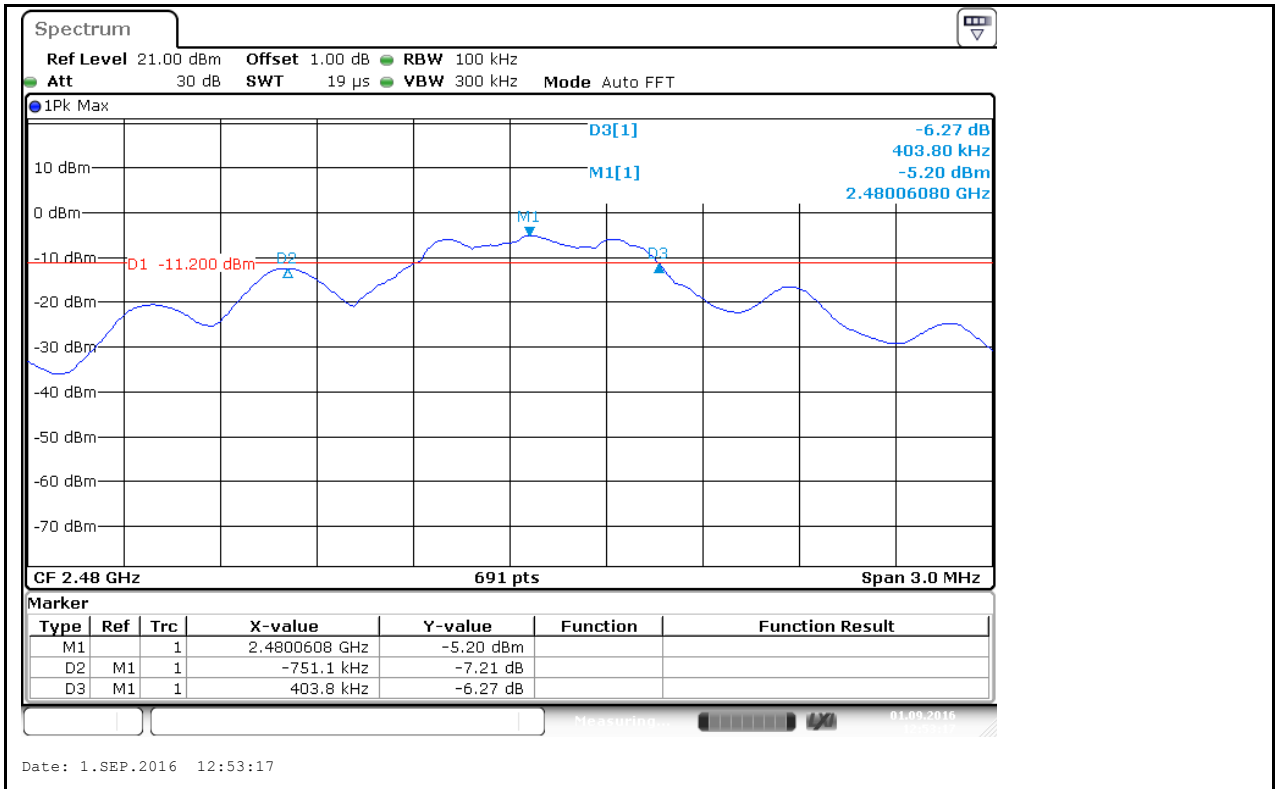
Date: 1.SEP.2016 12:49:56

Middle Channel



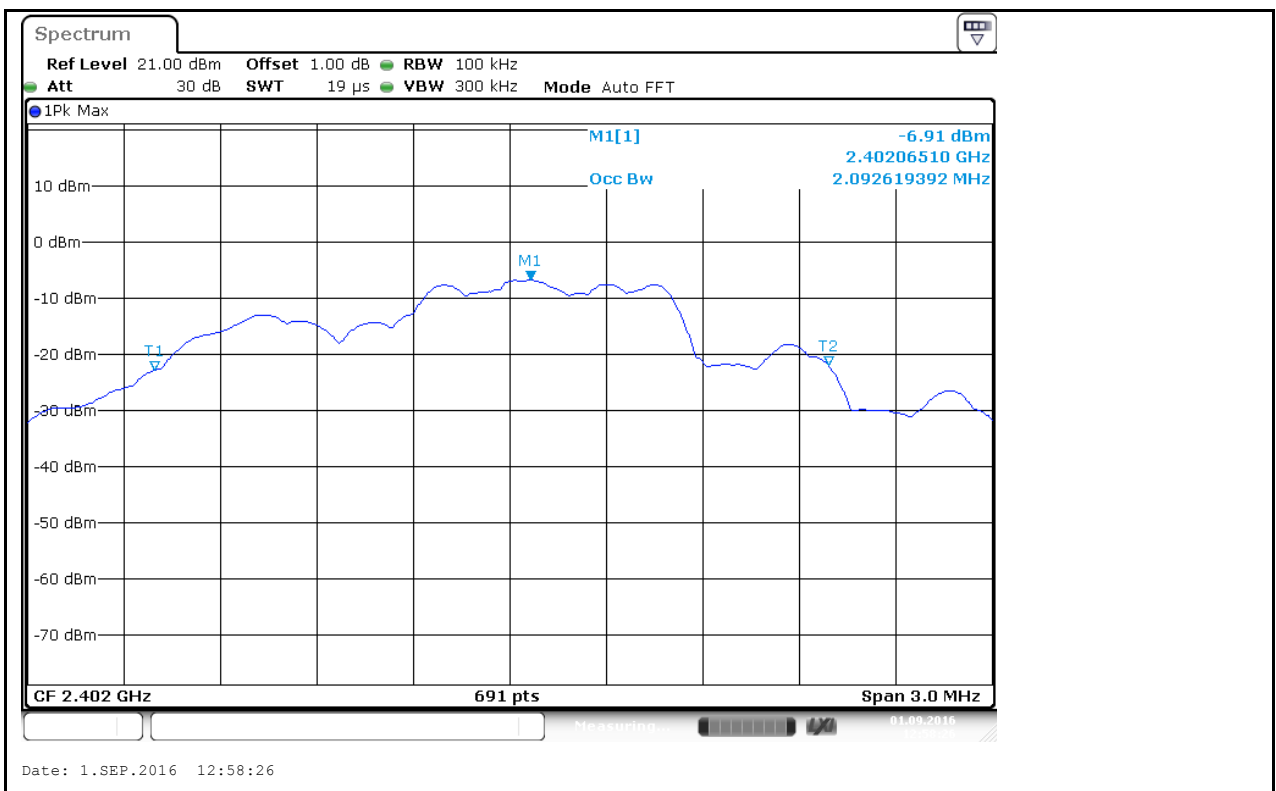
Date: 1.SEP.2016 12:52:04

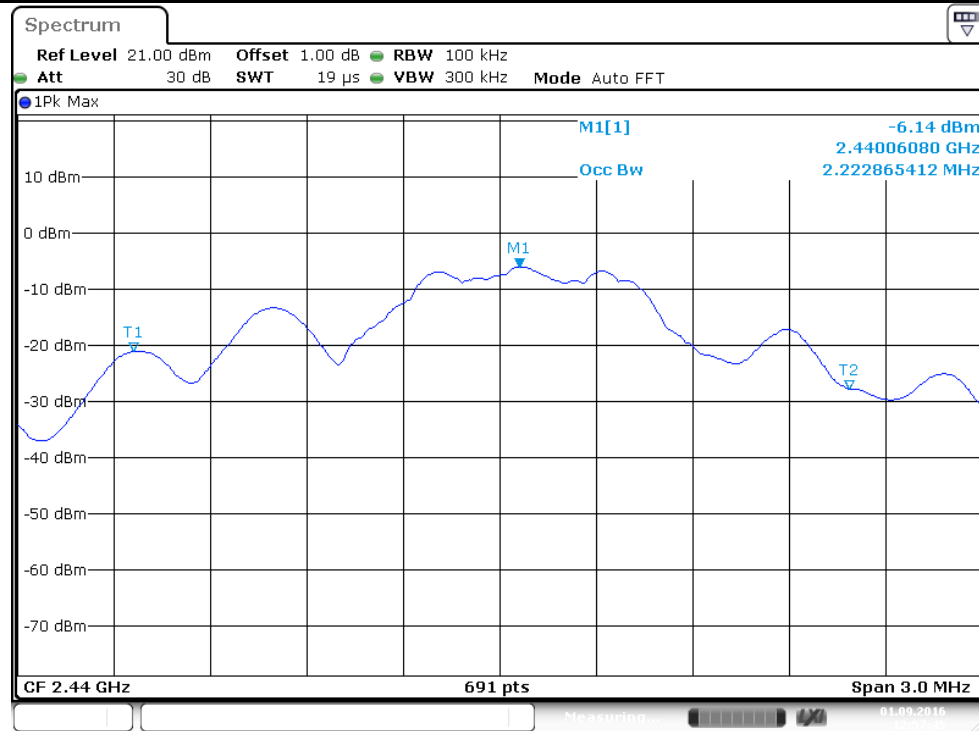
High Channel



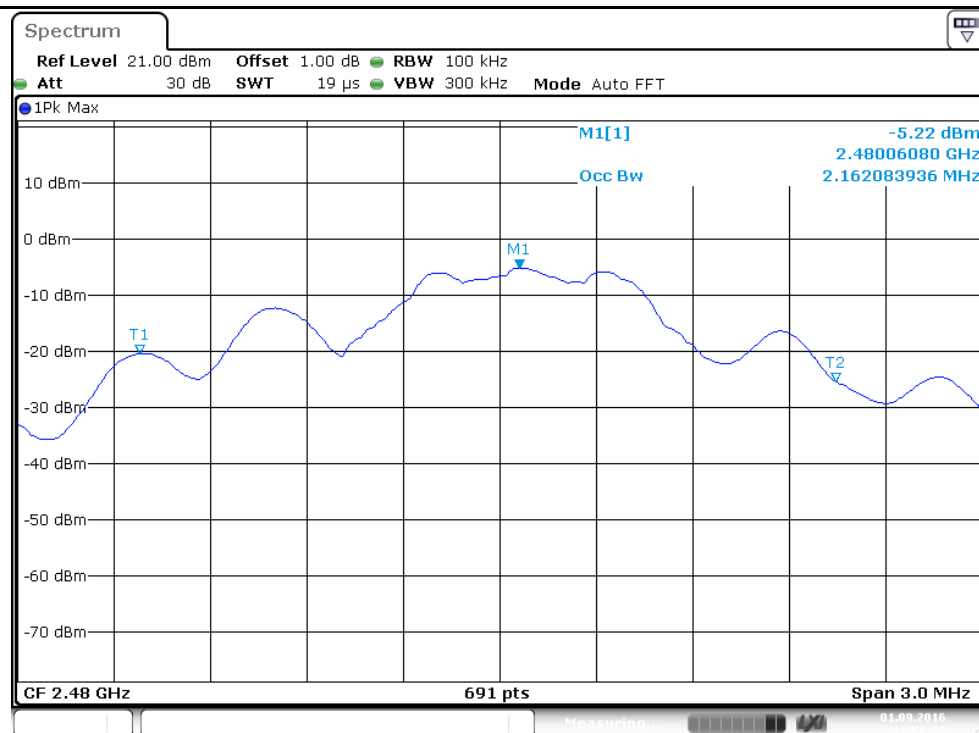
Test Graph of 99% Bandwidth, Bluetooth 4.0 Low Energy mode

Low Channel



Middle Channel


Date: 1.SEP.2016 12:57:44

High Channel


Date: 1.SEP.2016 12:56:27

5.1.4 Conducted Spurious Emissions measured in 100 kHz Bandwidth

RESULT:**Pass**

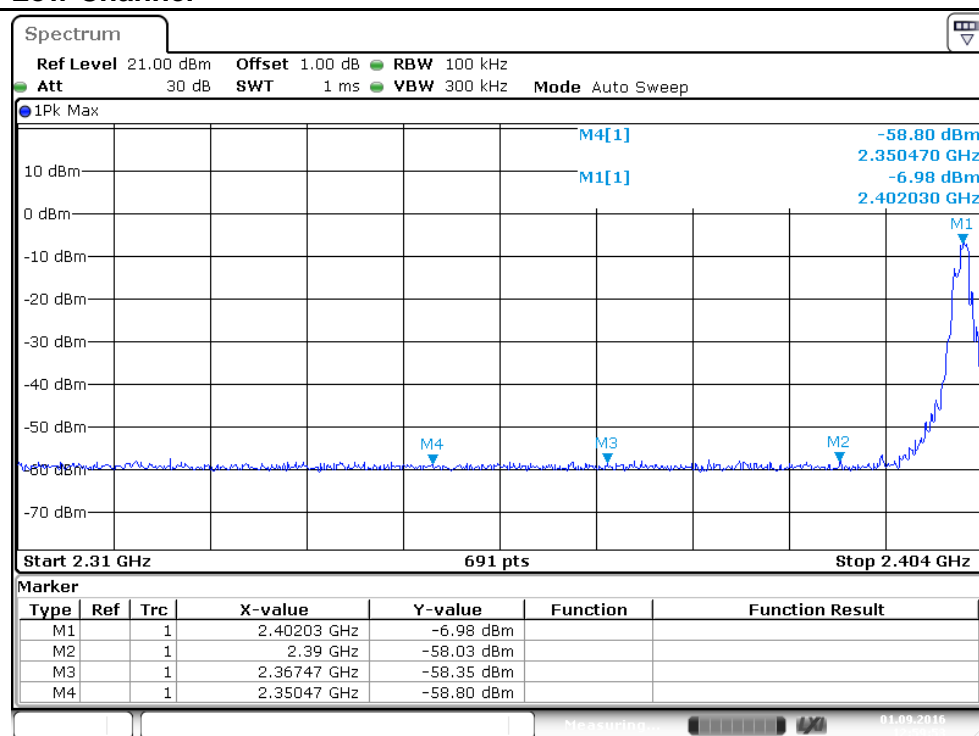
Date of testing	:	2016-08-18 to 2016-09-02
Test standard	:	FCC part 15.247(d) RSS-247 Section 5.5 RSS-Gen Issue 4 Clause 6.13
Basic standard	:	ANSI C63.10:2013 FCC KDB 558074 v03r05
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1
Ambient temperature	:	23°C
Relative humidity	:	51%
Atmospheric pressure	:	101.0 kPa

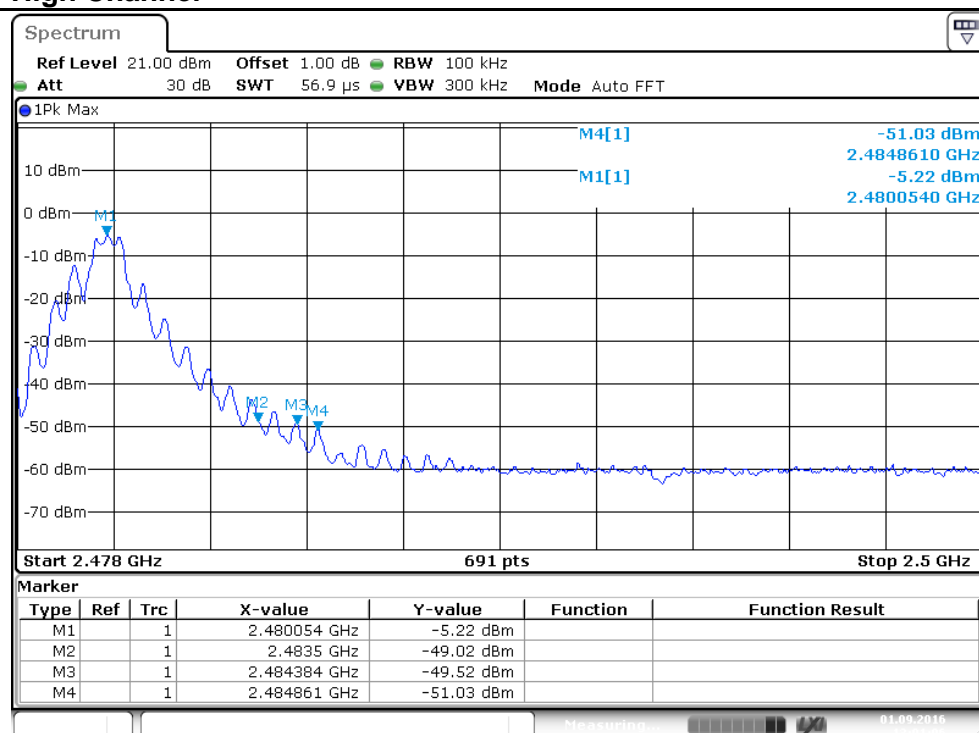
Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test graph, and compliance is achieved as well.

Test Graph of 100 kHz Bandwidth of Frequency Band Edge, Bluetooth 4.0 Low Energy mode Low Channel



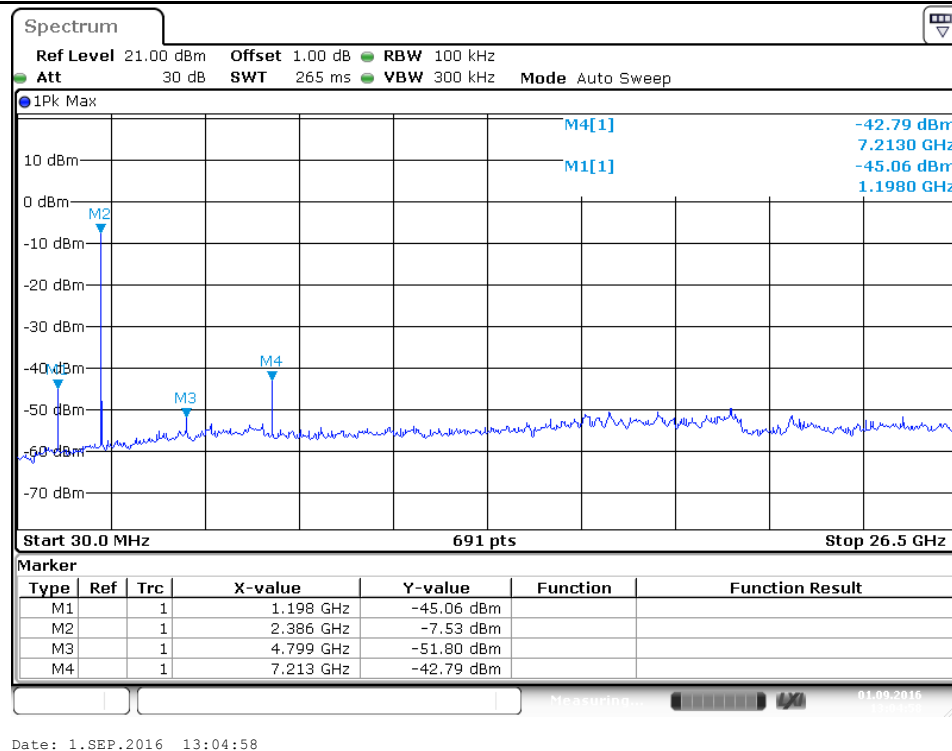
Date: 1.SEP.2016 12:59:54

High Channel

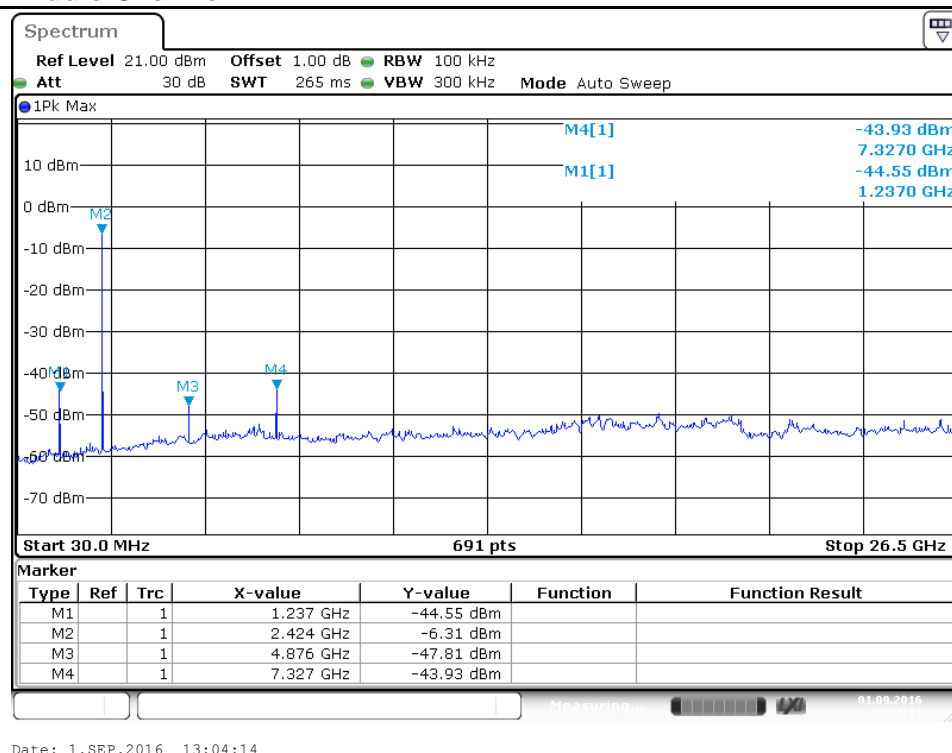


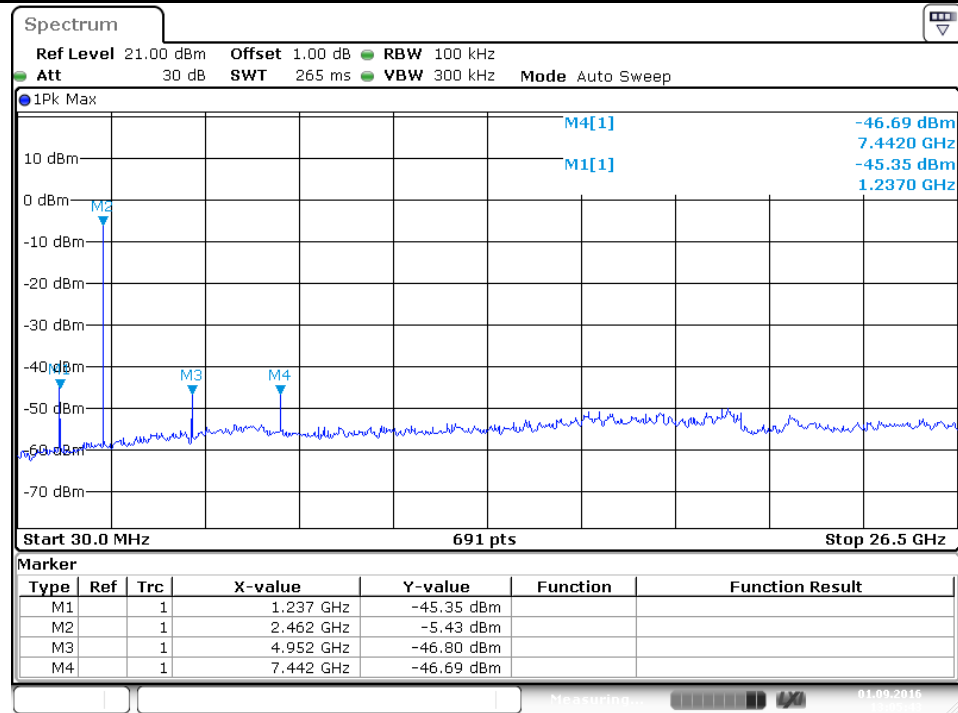
Date: 1.SEP.2016 13:01:06

Test Graph of Conducted spurious emissions measured in 100 kHz Bandwidth, Bluetooth 4.0 Low Energy mode Low Channel



Middle Channel

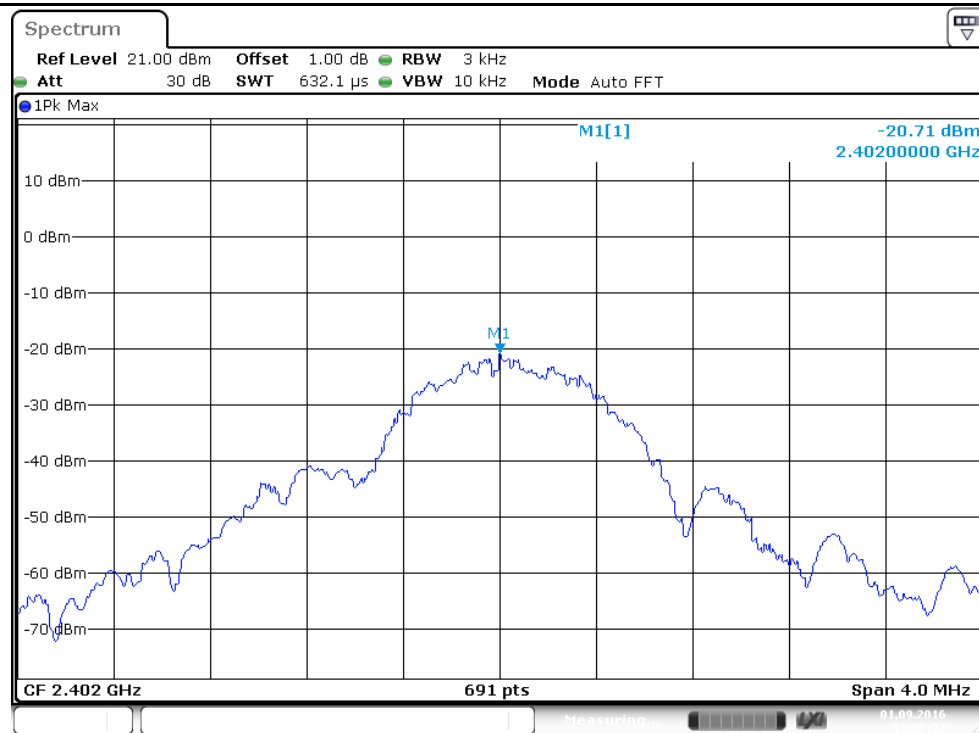


High Channel


Date: 1.SEP.2016 13:05:44

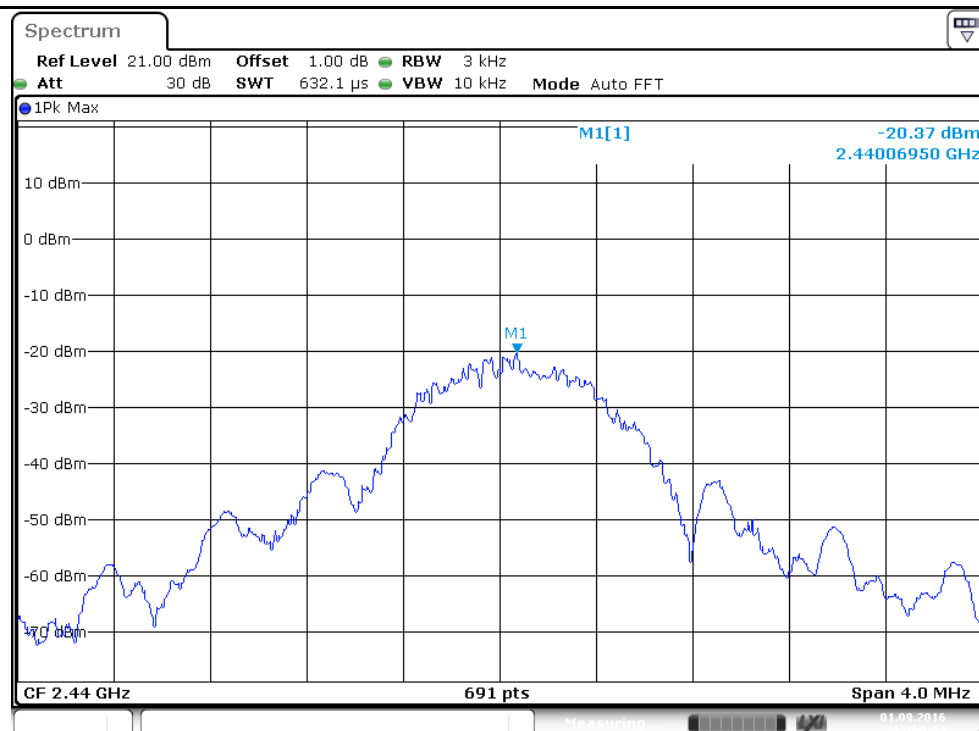
1. PSD = Measured Result + Cable Loss
2. Cable loss included in measured result

Test Graph of Power Spectral Density, Bluetooth 4.0 Low Energy mode Low Channel



Date: 1.SEP.2016 13:08:38

Middle Channel



Date: 1.SEP.2016 13:09:04

High Channel


5.1.6 Spurious Emissions

RESULT:**Pass**

Date of testing	:	2016-08-18 to 2016-09-02
Test standard	:	FCC part 15.247(d) FCC part 15.209 RSS-247 Section 5.5 and Section 3.3 RSS-Gen Issue 4 Clause 6.13
Basic standard	:	ANSI C63.10:2013
Limits	:	Refer to 15.209(a) RSS-Gen Issue 4 Clause 8.9 and 8.10
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1
Ambient temperature	:	23°C
Relative humidity	:	48%
Atmospheric pressure	:	101.0 kPa

Refer to attached Appendix A for details.

5.1.7 Conducted emissions

RESULT:**Not applicable**

Test standard	:	FCC Part 15.207 RSS-Gen Clause 8.8
Basic standard	:	ANSI C63.10: 2013
Frequency range	:	0.15MHz – 30MHz
Limits	:	FCC Part 15.207(a) Table 3 of RSS-Gen
Kind of test site	:	Shield Room

Conclusion:

The EUT does not have AC mains port, therefore this requirement is not applicable for EUT.

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Appendix A

Test Results of Bluetooth 4.0 Low Energy Mode

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Appendix A.1: Spurious Emissions of Bluetooth 4.0 Low Energy operation Low Channel

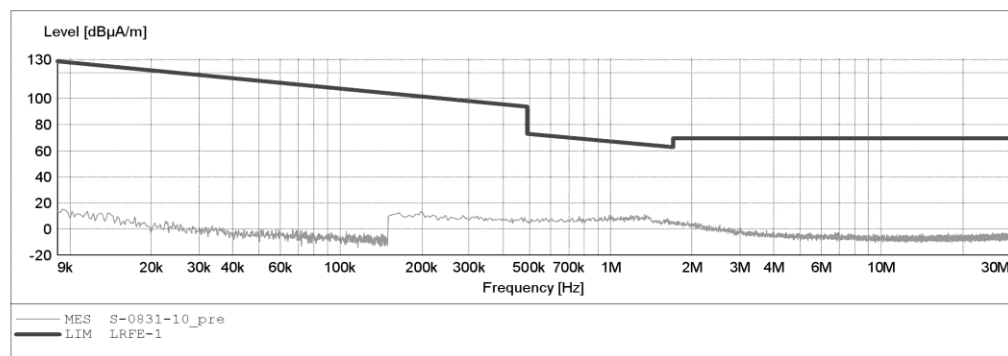
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Cubetto M/N:CUBT001
Manufacturer: SolidLabs
Operating Condition: TX 2402MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 4.5V
Comment: X
Start of Test: 2016-8-31 /

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



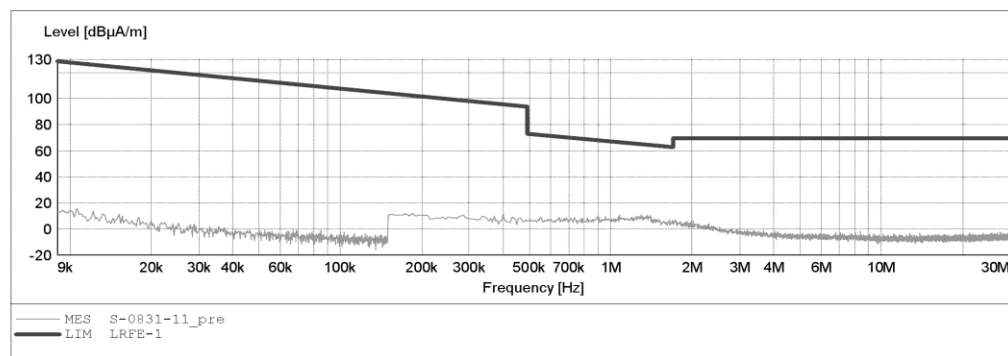
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Cubetto M/N: CUBT001
 Manufacturer: SolidLabs
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 4.5V
 Comment: Y
 Start of Test: 2016-8-31 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70		IF	Transducer
Start	Stop	Step	Detector	Meas. Time	Bandw.	
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



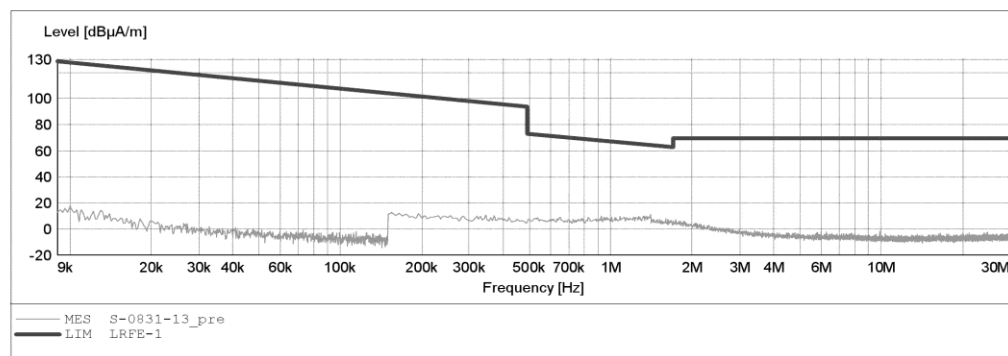
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Cubetto M/N: CUBT001
 Manufacturer: SolidLabs
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 4.5V
 Comment: Z
 Start of Test: 2016-8-31 /

SCAN TABLE: "LFRE Fin"

Short Description:				_SUB_STD_VTERM2 1.70		IF	Transducer
Start	Stop	Step	Detector	Meas. Time	Bandw.		
Frequency	Frequency	Width					
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
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Igwade #1447

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2402MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Vertical

Power Source: DC 4.5V

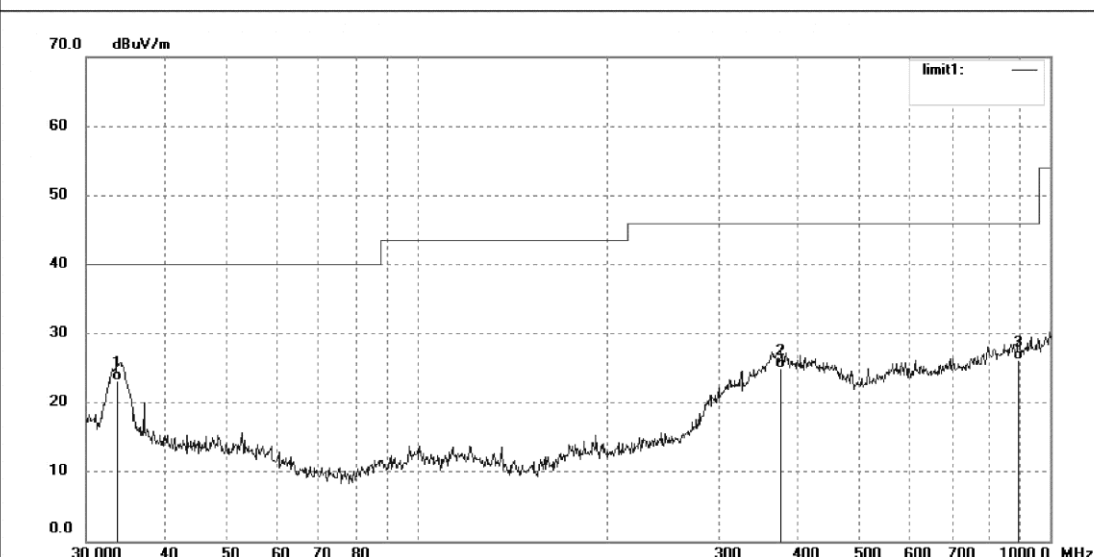
Date: 2016/08/18/

Time:

Engineer Signature: LGWADE

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	33.5623	32.29	-9.15	23.14	40.00	-16.86	QP			
2	375.9384	32.28	-7.42	24.86	46.00	-21.14	QP			
3	890.7278	24.81	1.27	26.08	46.00	-19.92	QP			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #1448

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2402MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Horizontal

Power Source: DC 4.5V

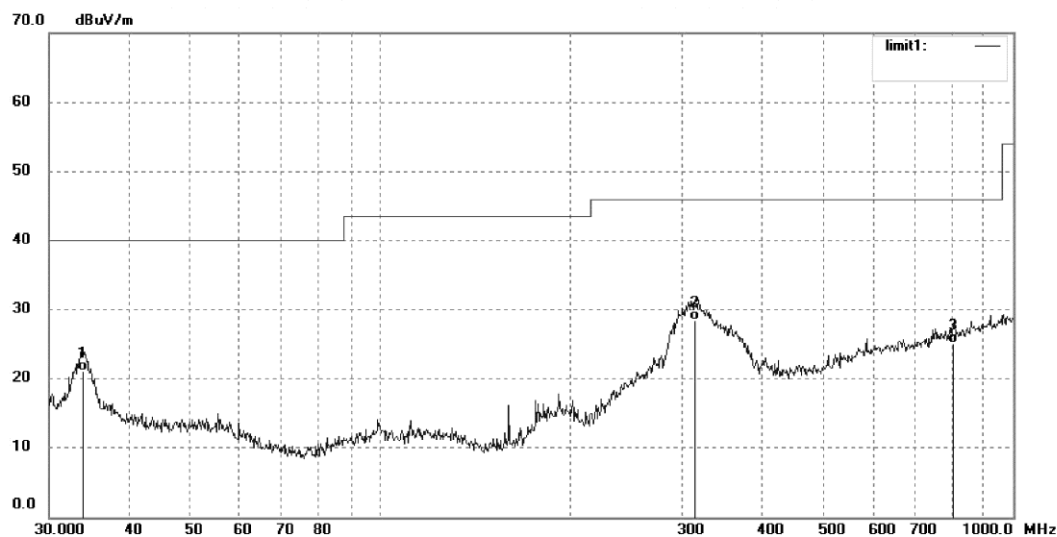
Date: 2016/08/18/

Time:

Engineer Signature: LGWADE

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	33.9174	30.56	-9.47	21.09	40.00	-18.91	QP			
2	314.3765	37.32	-8.89	28.43	46.00	-17.57	QP			
3	804.6028	25.05	0.11	25.16	46.00	-20.84	QP			

Produkte
Products



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #1407

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2402MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Vertical

Power Source: DC 4.5V

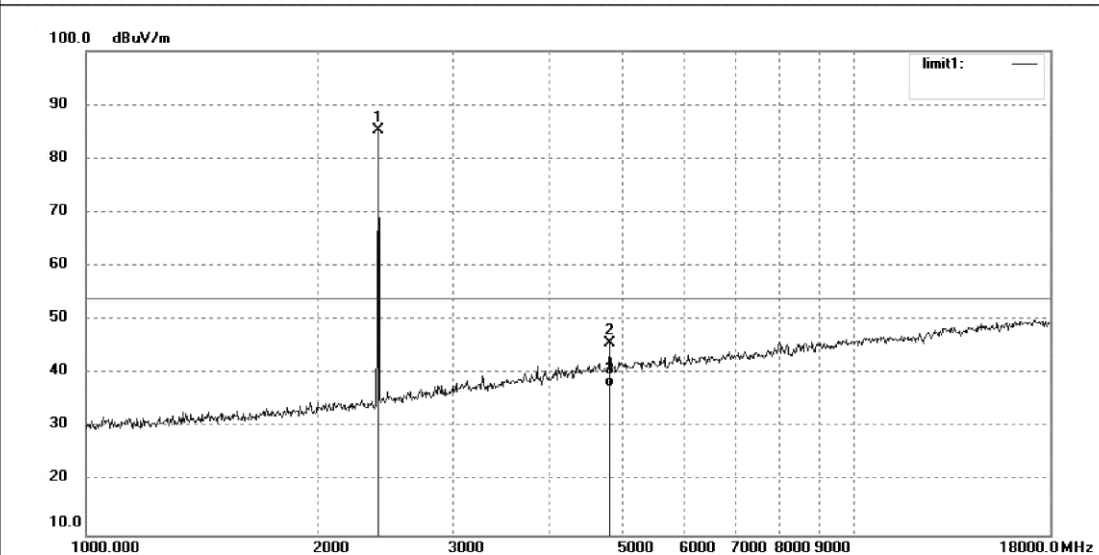
Date: 16/08/18/

Time:

Engineer Signature: LGWADE

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	92.67	-7.45	85.22	/	/	peak			
2	4804.025	45.93	-0.30	45.63	74.00	-28.37	peak			
3	4804.025	37.93	-0.30	37.63	54.00	-16.37	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #1408

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2402MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Horizontal

Power Source: DC 4.5V

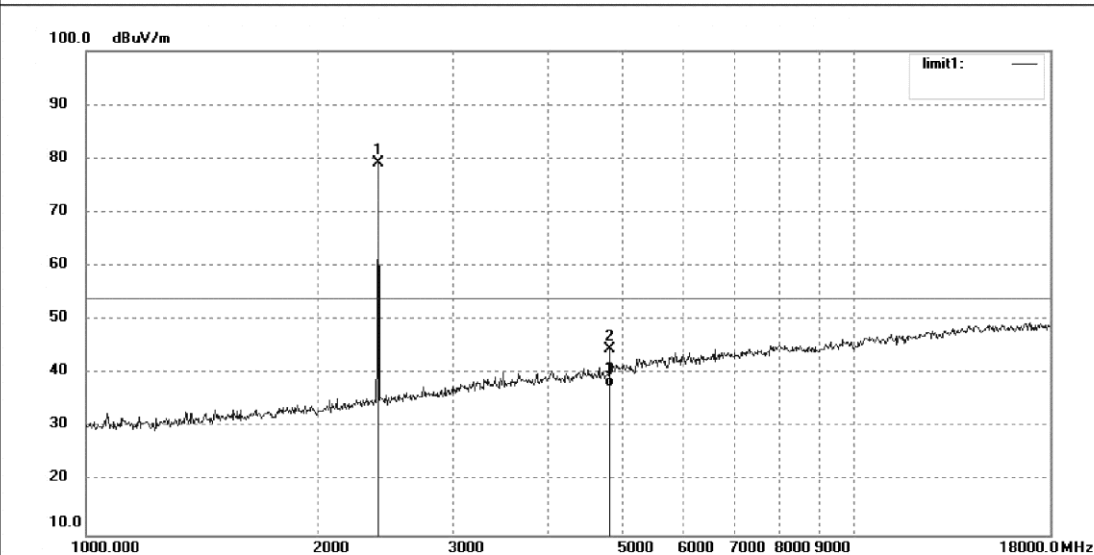
Date: 16/08/18/

Time:

Engineer Signature: LGWADE

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	86.57	-7.45	79.12	/	/	peak			
2	4804.026	44.86	-0.30	44.56	74.00	-29.44	peak			
3	4804.026	37.86	-0.30	37.56	54.00	-16.44	AVG			

Produkte
Products



ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber

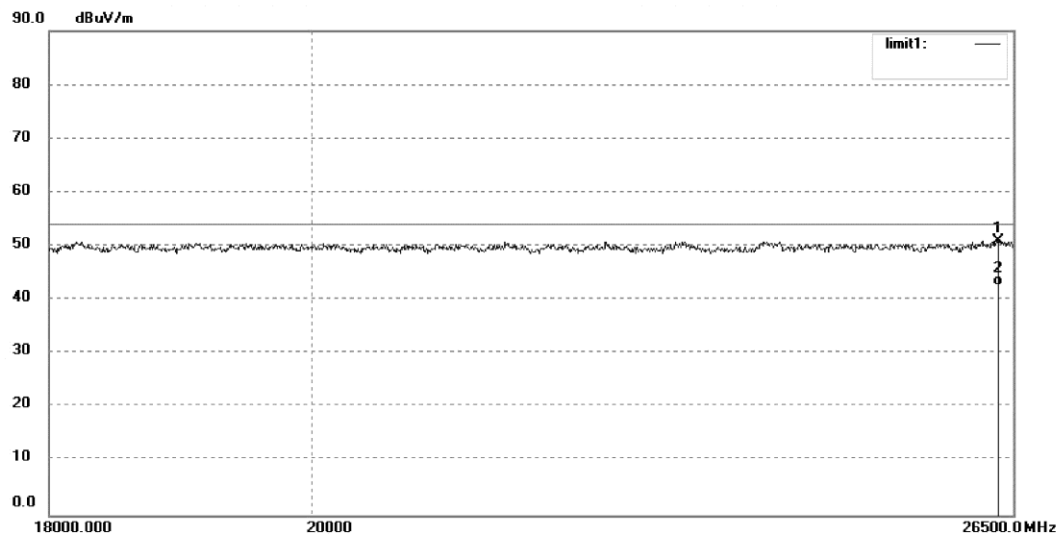
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #1413
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Cubetto
Mode: TX 2402MHz
Model: CUBT001
Manufacturer: SolidLabs

Polarization: Horizontal
Power Source: DC 4.5V
Date: 16/08/18/
Time:
Engineer Signature: LGWADE
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	26346.703	34.42	16.50	50.92	74.00	-23.08	peak			
2	26346.703	26.12	16.50	42.62	54.00	-11.38	AVG			

Produkte
Products



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Site: 2# Chamber

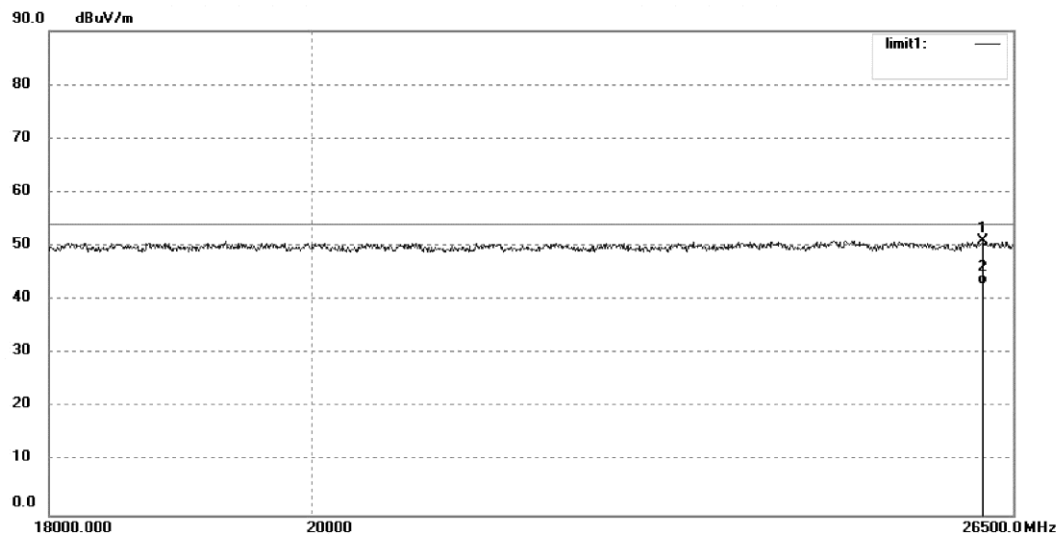
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #1414
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Cubetto
Mode: TX 2402MHz
Model: CUBT001
Manufacturer: SolidLabs

Polarization: Vertical
Power Source: DC 4.5V
Date: 16/08/18/
Time:
Engineer Signature: LGWADE
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	26184.163	33.76	17.11	50.87	74.00	-23.13	peak			
2	26184.163	25.78	17.11	42.89	54.00	-11.11	AVG			

Middle Channel

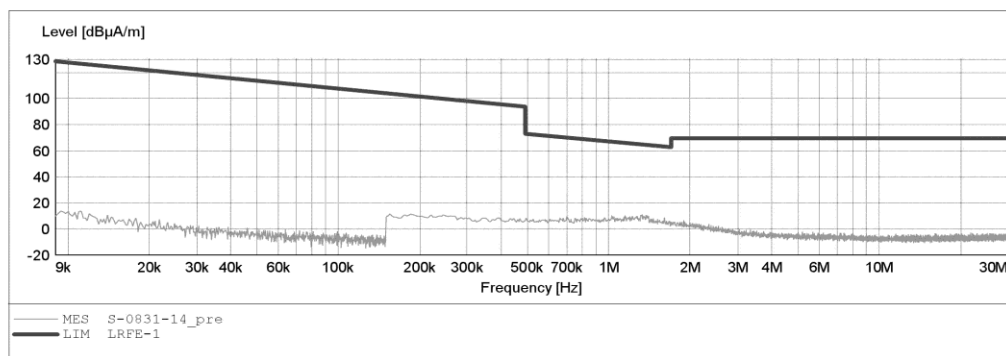
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Cubetto M/N: CUBT001
 Manufacturer: SolidLabs
 Operating Condition: TX 2440MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 4.5V
 Comment: X
 Start of Test: 2016-8-31 /

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



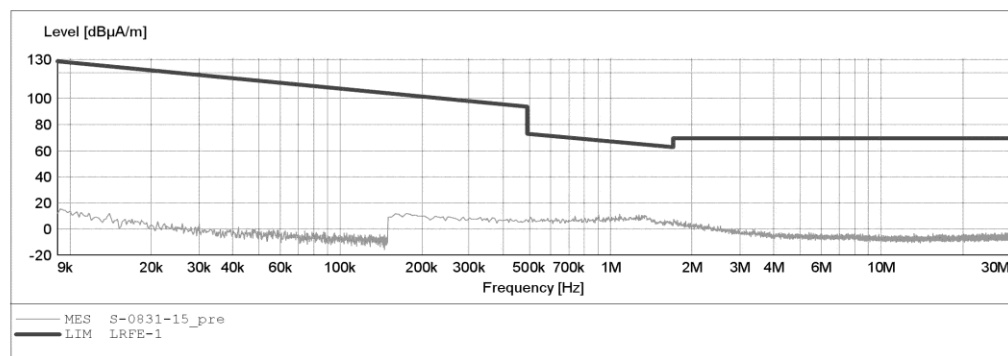
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Cubetto M/N:CUBT001
Manufacturer: SolidLabs
Operating Condition: TX 2440MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 4.5V
Comment: Y
Start of Test: 2016-8-31 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70				IF	Transducer
Start	Stop	Step	Detector	Meas. Time	Bandw.			
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		



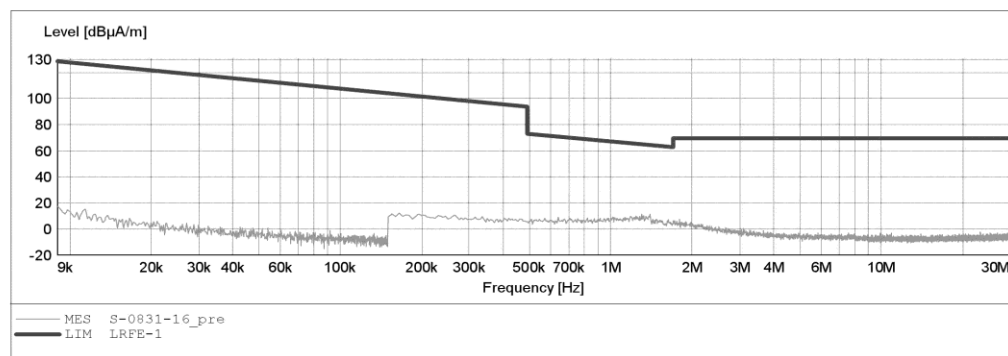
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Cubetto M/N: CUBT001
Manufacturer: SolidLabs
Operating Condition: TX 2440MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 4.5V
Comment: Z
Start of Test: 2016-8-31 /

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

Tel:+86-0755-26503290

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Job No.: Igwade #1449

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2440MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Horizontal

Power Source: DC 4.5V

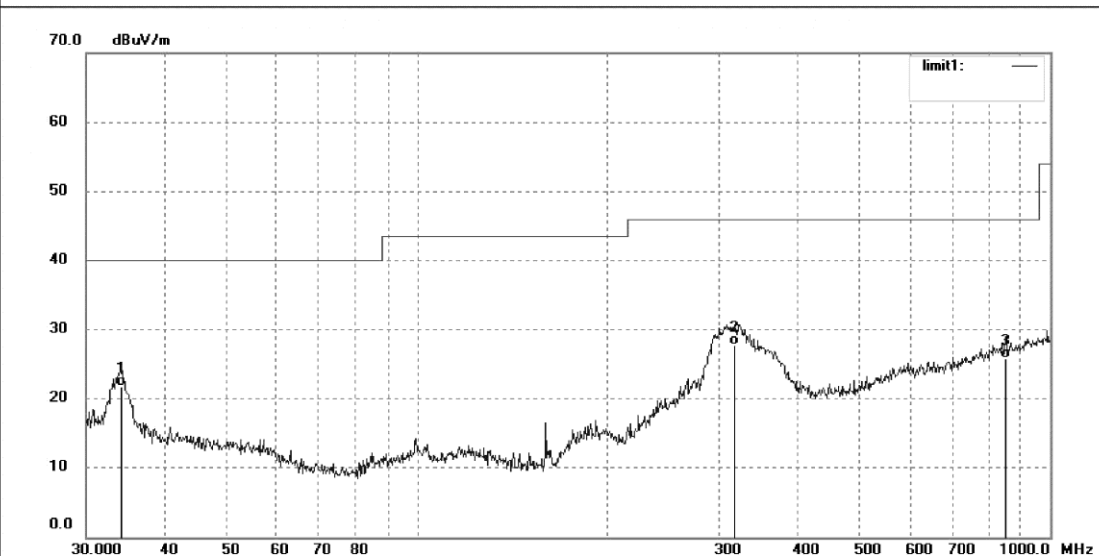
Date: 2016/08/18/

Time:

Engineer Signature: LGWADE

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	34.1561	31.27	-9.49	21.78	40.00	-18.22	QP			
2	317.7010	36.54	-8.81	27.73	46.00	-18.27	QP			
3	851.0353	25.17	0.72	25.89	46.00	-20.11	QP			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #1450

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2440MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Vertical

Power Source: DC 4.5V

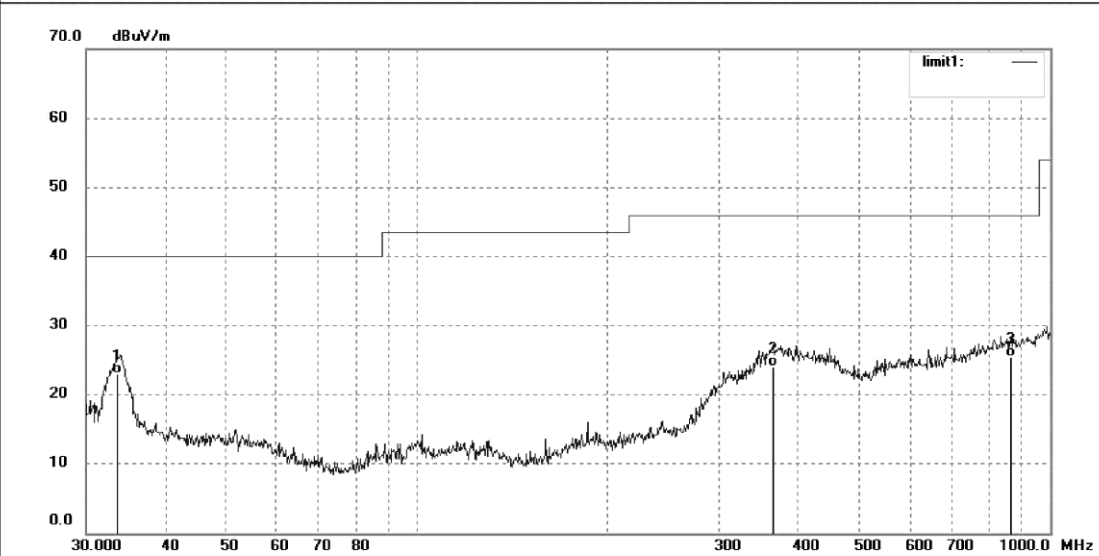
Date: 2016/08/18/

Time:

Engineer Signature: LGWADE

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	33.6802	32.22	-9.18	23.04	40.00	-16.96	QP			
2	365.5391	31.69	-7.56	24.13	46.00	-21.87	QP			
3	866.0878	24.46	1.03	25.49	46.00	-20.51	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.: Igwade #1409

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2440MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Horizontal

Power Source: DC 4.5V

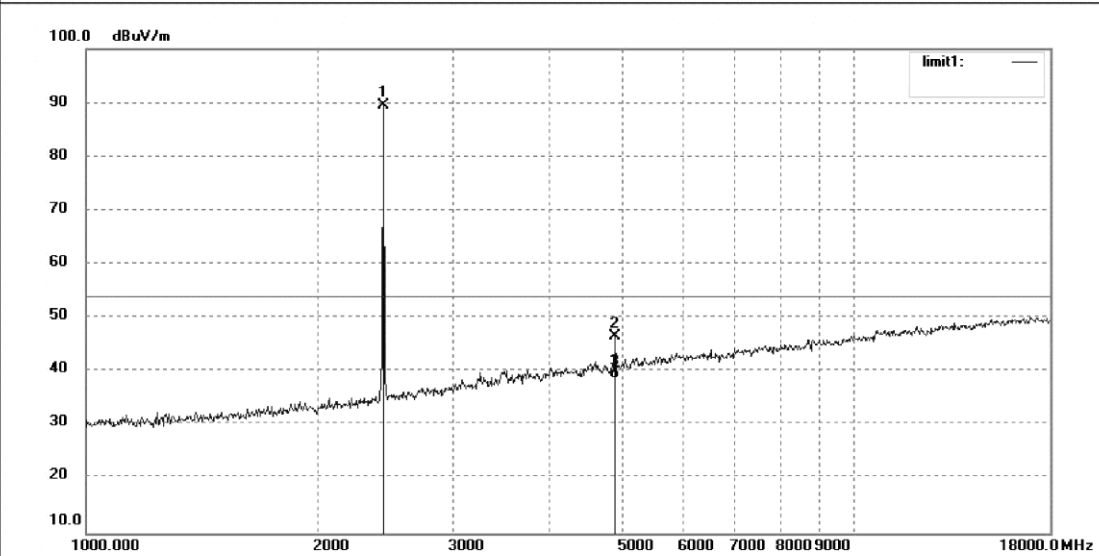
Date: 16/08/18/

Time:

Engineer Signature: LGWADE

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	96.82	-7.36	89.46	/	/	peak			
2	4880.027	46.50	0.13	46.63	74.00	-27.37	peak			
3	4880.027	38.45	0.13	38.58	54.00	-15.42	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: Igwade #1410

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2440MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Vertical

Power Source: DC 4.5V

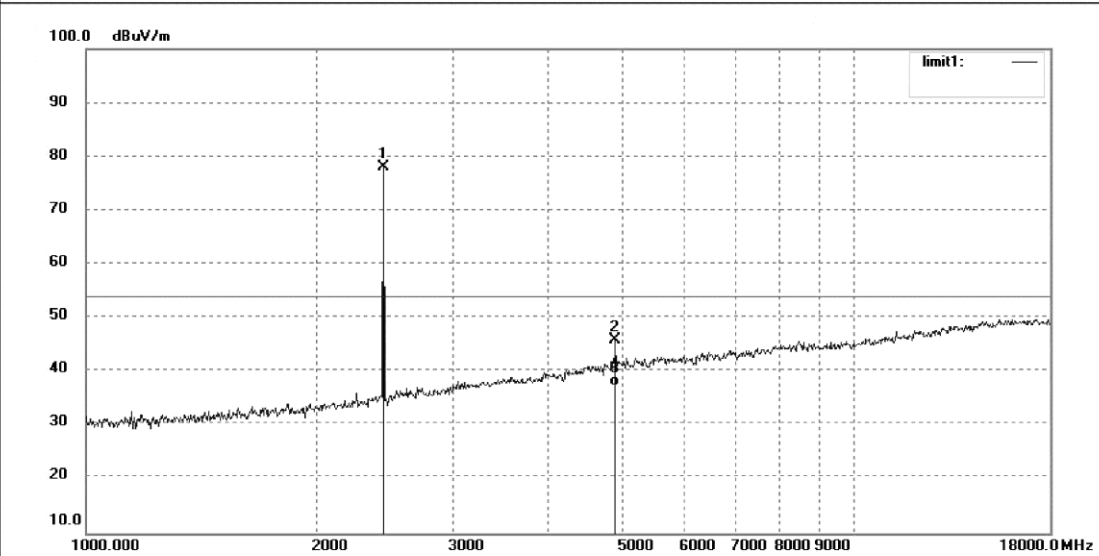
Date: 16/08/18/

Time:

Engineer Signature: LGWADE

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	85.47	-7.36	78.11	/	/	peak			
2	4880.024	45.70	0.13	45.83	74.00	-28.17	peak			
3	4880.024	37.10	0.13	37.23	54.00	-16.77	AVG			

Produkte
Products



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Site: 2# Chamber

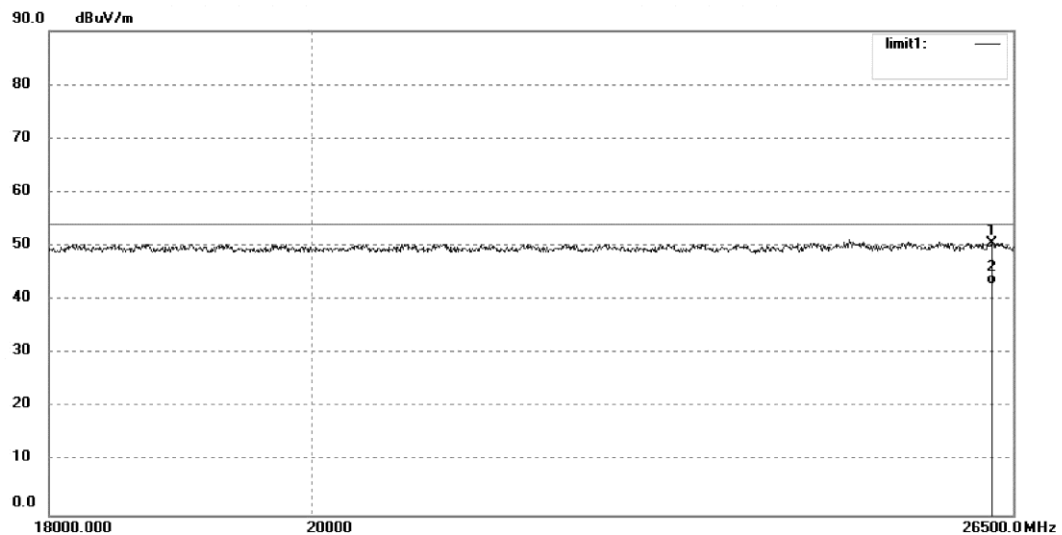
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #1415
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Cubetto
Mode: TX 2440MHz
Model: CUBT001
Manufacturer: SolidLabs

Polarization: Vertical
Power Source: DC 4.5V
Date: 16/08/18/
Time:
Engineer Signature: LGWADE
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	26275.468	33.56	17.05	50.61	74.00	-23.39	peak			
2	26275.468	25.74	17.05	42.79	54.00	-11.21	AVG			

Produkte
Products



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Site: 2# Chamber

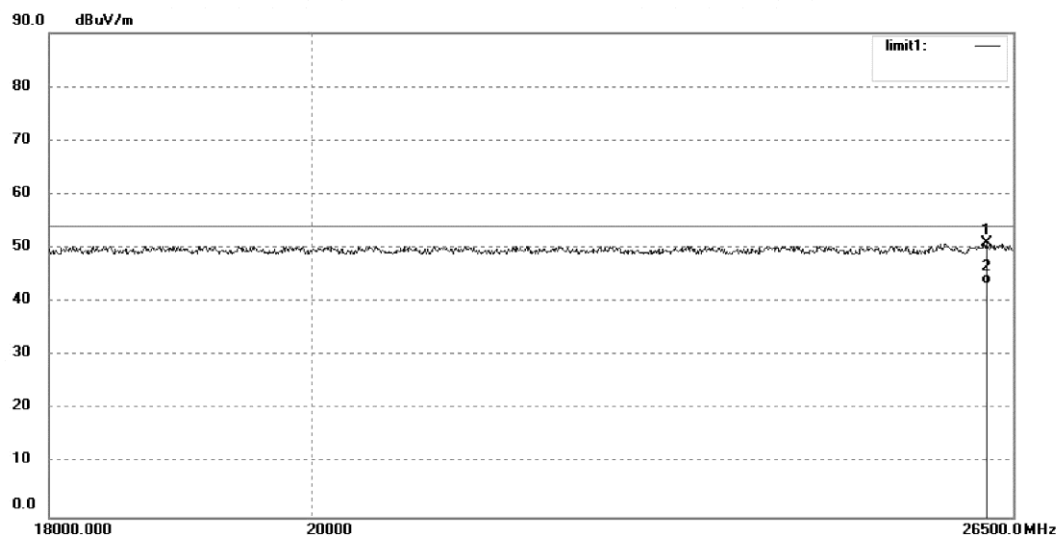
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #1416
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Cubetto
Mode: TX 2440MHz
Model: CUBT001
Manufacturer: SolidLabs

Polarization: Horizontal
Power Source: DC 4.5V
Date: 16/08/18/
Time:
Engineer Signature: LGWADE
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	26214.563	34.45	16.50	50.95	74.00	-23.05	peak			
2	26214.563	26.89	16.50	43.39	54.00	-10.61	AVG			

High Channel

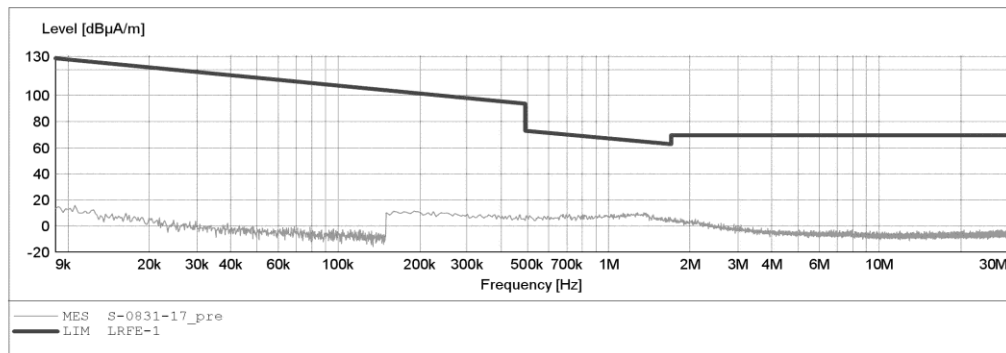
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Cubetto M/N:CUBT001
 Manufacturer: SolidLabs
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 4.5V
 Comment: X
 Start of Test: 2016-8-31 /

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



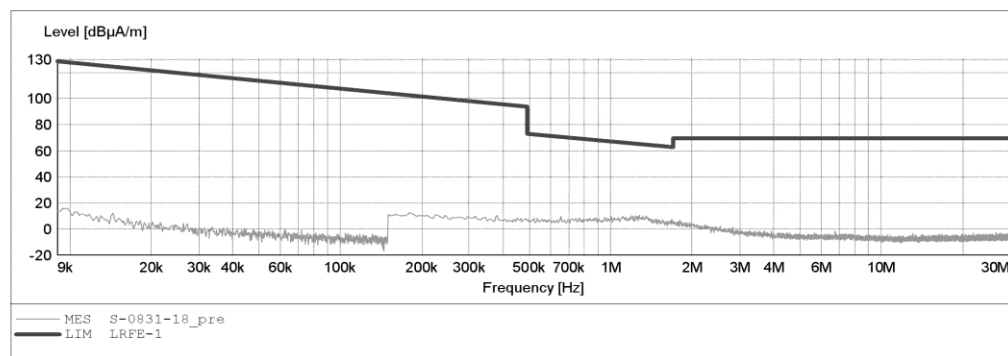
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Cubetto M/N: CUBT001
 Manufacturer: SolidLabs
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 4.5V
 Comment: Y
 Start of Test: 2016-8-31 /

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



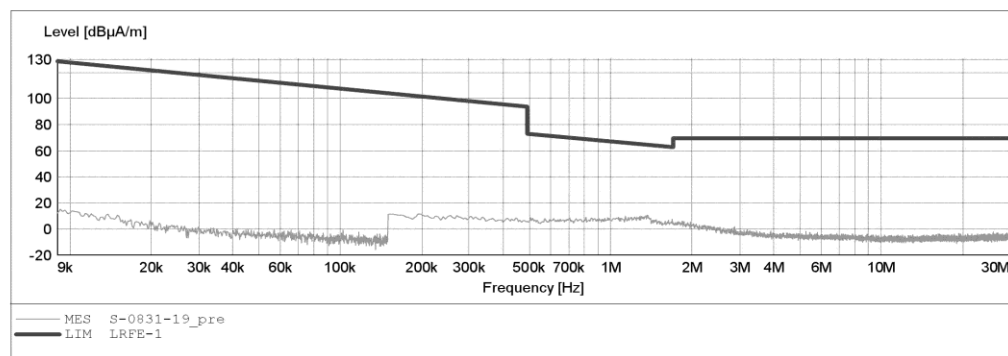
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Cubetto M/N: CUBT001
Manufacturer: SolidLabs
Operating Condition: TX 2480MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 4.5V
Comment: Z
Start of Test: 2016-8-31 /

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
Tel:+86-0755-26503290
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Job No.: lgwade #1451

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2480MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Vertical

Power Source: DC 4.5V

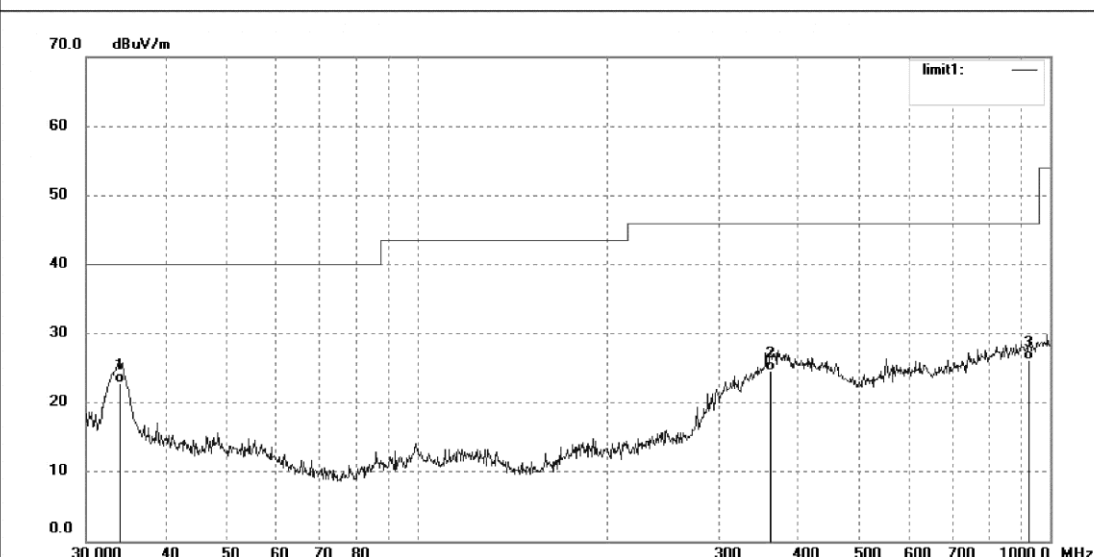
Date: 2016/08/18/

Time:

Engineer Signature: LGWADE

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	33.9174	32.17	-9.26	22.91	40.00	-17.09	QP			
2	361.7139	32.24	-7.60	24.64	46.00	-21.36	QP			
3	925.7563	24.39	1.74	26.13	46.00	-19.87	QP			

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Job No.: Igwade #1452

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2480MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Horizontal

Power Source: DC 4.5V

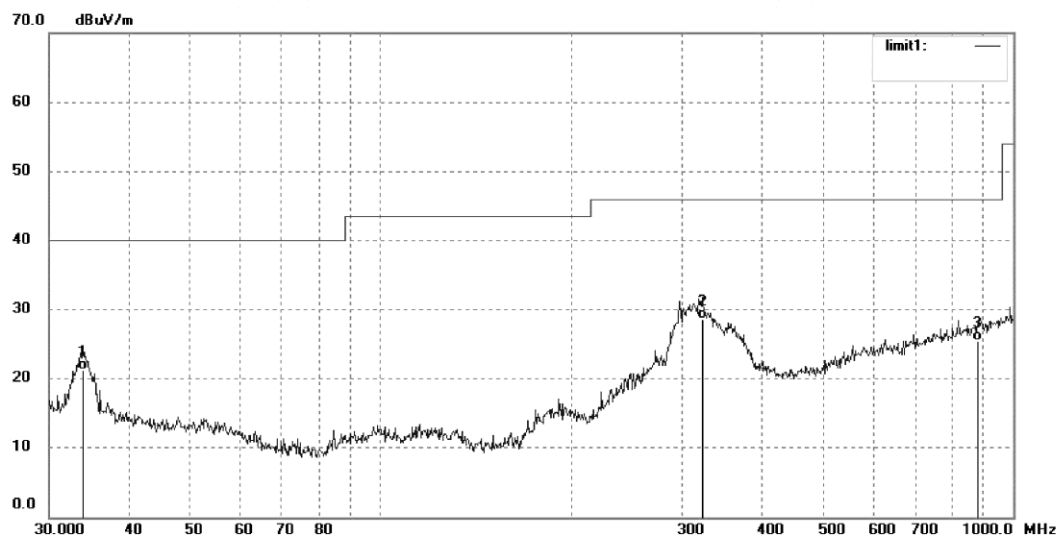
Date: 2016/08/18/

Time:

Engineer Signature: LGWADE

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	33.9174	30.65	-9.47	21.18	40.00	-18.82	QP			
2	323.3204	37.29	-8.61	28.68	46.00	-17.32	QP			
3	878.3214	24.29	1.13	25.42	46.00	-20.58	QP			

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Job No.: Igwade #1411

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2480MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Vertical

Power Source: DC 4.5V

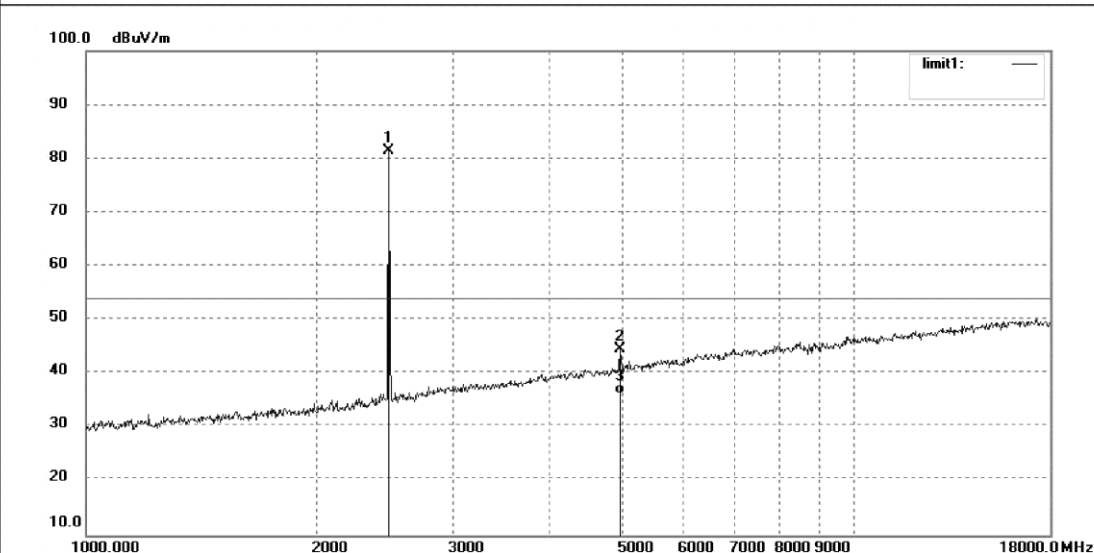
Date: 16/08/18/

Time:

Engineer Signature: LGWADE

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	88.82	-7.37	81.45	/	/	peak			
2	4960.025	44.09	0.52	44.61	74.00	-29.39	peak			
3	4960.025	35.72	0.52	36.24	54.00	-17.76	AVG			

Produkte
Products



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Job No.: lgwade #1412

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2480MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Horizontal

Power Source: DC 4.5V

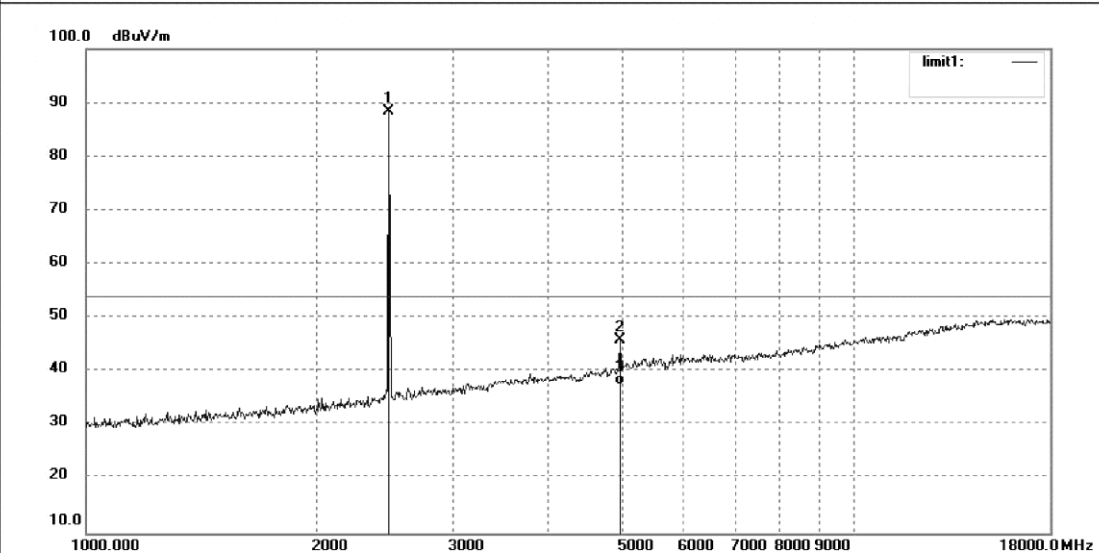
Date: 16/08/18/

Time:

Engineer Signature: LGWADE

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	95.78	-7.37	88.41	/	/	peak			
2	4960.029	45.39	0.52	45.91	74.00	-28.09	peak			
3	4960.029	36.93	0.52	37.45	54.00	-16.55	AVG			

Produkte
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Job No.: Igwade #1417

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2480MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Horizontal

Power Source: DC 4.5V

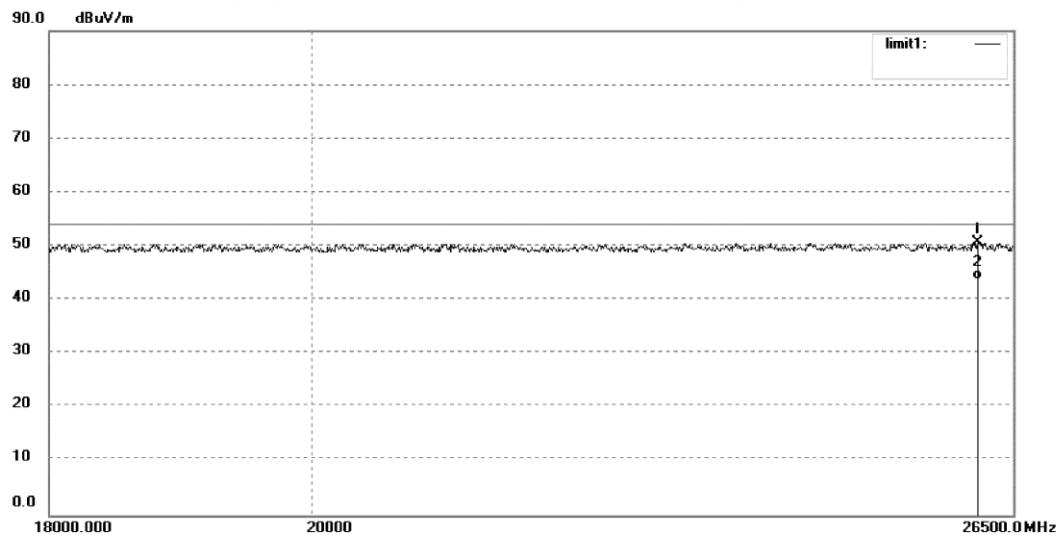
Date: 16/08/18/

Time:

Engineer Signature: LGWADE

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	34.18	16.50	50.68	74.00	-23.32	peak			
2	26123.470	27.23	16.50	43.73	54.00	-10.27	AVG			

Produkte
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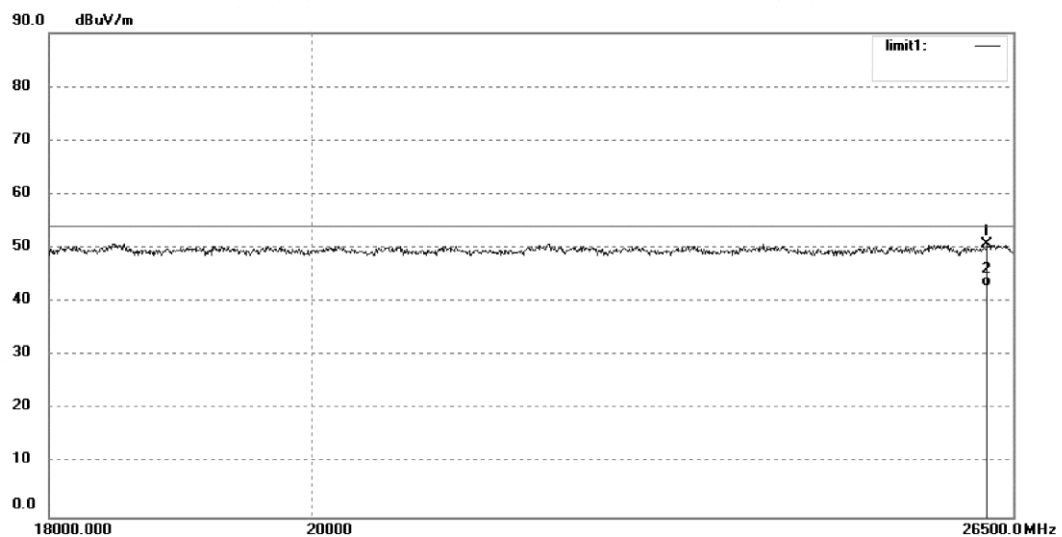
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #1418
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Cubetto
Mode: TX 2480MHz
Model: CUBT001
Manufacturer: SolidLabs

Polarization: Vertical
Power Source: DC 4.5V
Date: 16/08/18/
Time:
Engineer Signature: LGWADE
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	26224.704	33.58	17.08	50.66	74.00	-23.34	peak			
2	26224.704	25.75	17.08	42.83	54.00	-11.17	AVG			

Appendix A.2: Radiated Emissions in Restricted Bands
 Low Channel
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Job No.: Igwade #1419

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2402MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Vertical

Power Source: DC 4.5V

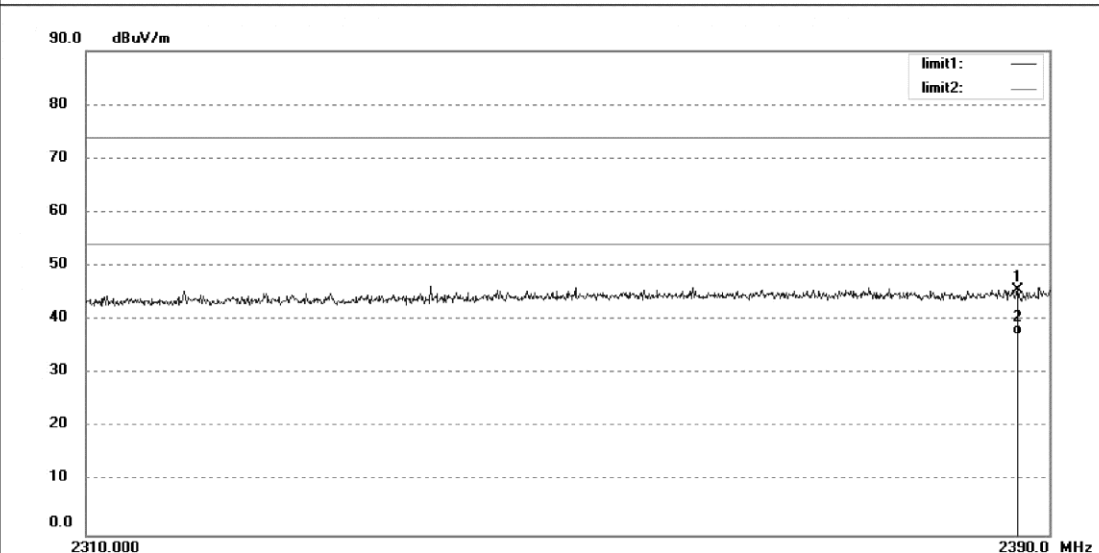
Date: 16/08/18/

Time:

Engineer Signature: LGWADE

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	2387.360	43.47	2.08	45.55	74.00	-28.45	peak			
2	2387.360	35.14	2.08	37.22	54.00	-16.78	AVG			

Produkte
Products



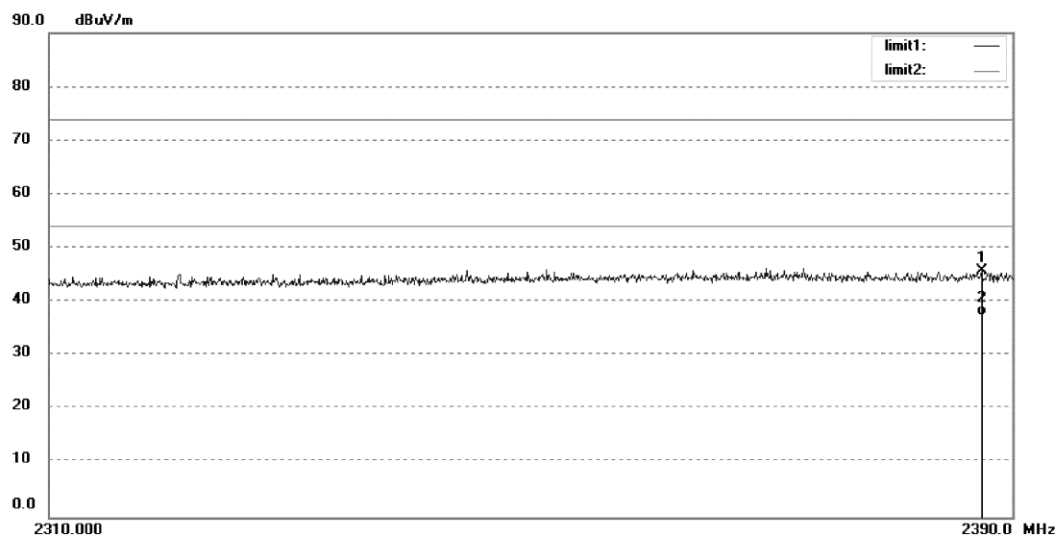
ACCURATE TECHNOLOGY CO., LTD.
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
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Fax:+86-0755-26503396

Job No.: lgwade #1420
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Cubetto
Mode: TX 2402MHz
Model: CUBT001
Manufacturer: SolidLabs

Polarization: Horizontal
Power Source: DC 4.5V
Date: 16/08/18/
Time:
Engineer Signature: LGWADE
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	2387.440	43.66	2.08	45.74	74.00	-28.26	peak			
2	2387.440	35.45	2.08	37.53	54.00	-16.47	AVG			

High Channel

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Job No.: Igwade #1421

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Cubetto

Mode: TX 2480MHz

Model: CUBT001

Manufacturer: SolidLabs

Polarization: Horizontal

Power Source: DC 4.5V

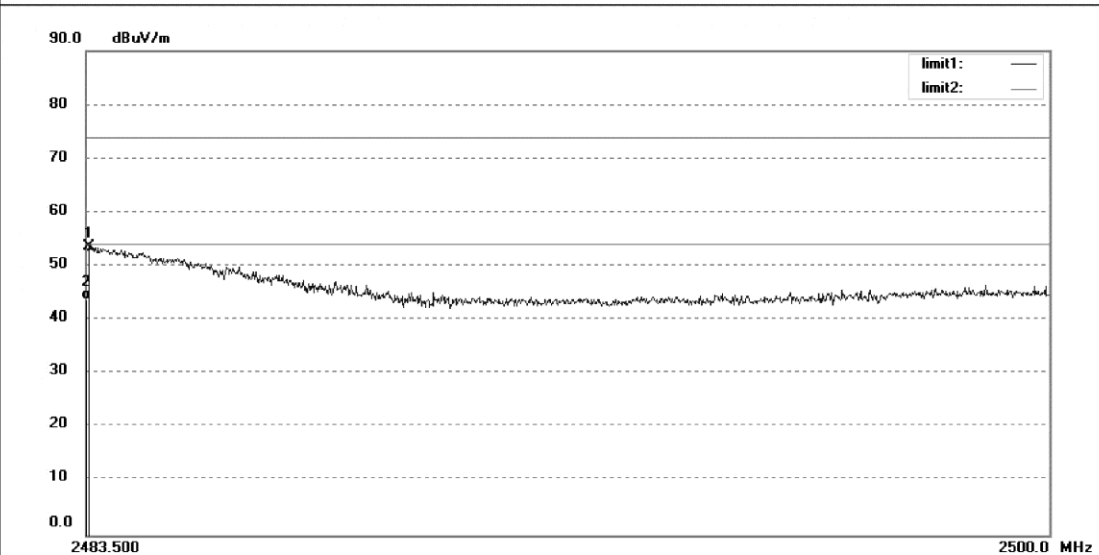
Date: 16/08/18/

Time:

Engineer Signature: LGWADE

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	2483.550	51.49	2.12	53.61	74.00	-20.39	peak			
2	2483.550	41.56	2.12	43.68	54.00	-10.32	AVG			



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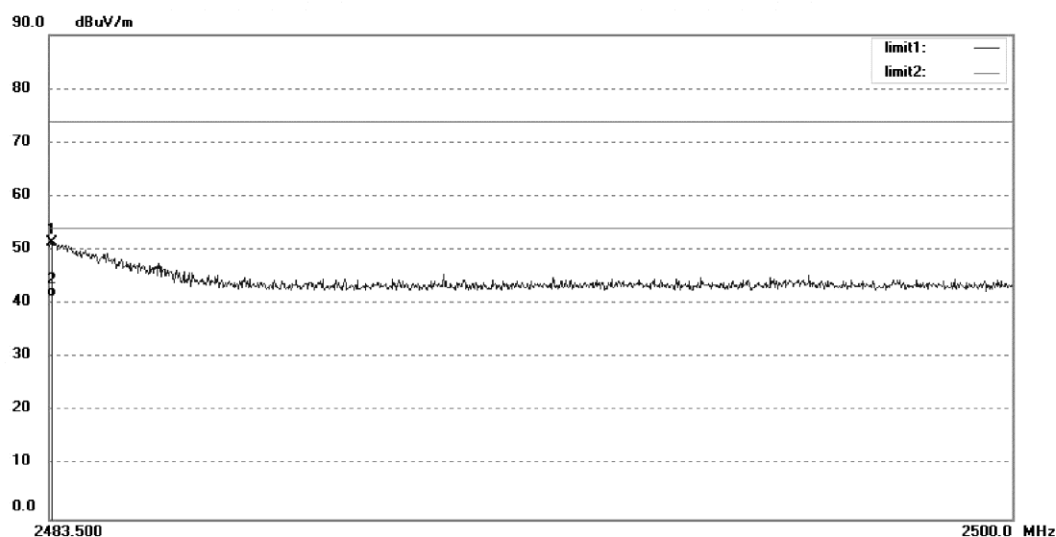
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lgwade #1422
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Cubetto
Mode: TX 2480MHz
Model: CUBT001
Manufacturer: SolidLabs

Polarization: Vertical
Power Source: DC 4.5V
Date: 16/08/18/
Time:
Engineer Signature: LGWADE
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	2483.550	49.19	2.12	51.31	74.00	-22.69	peak			
2	2483.550	39.23	2.12	41.35	54.00	-12.65	AVG			

Appendix B

Test Results of RF Exposure - Bluetooth 4.0 Low Energy Mode

APPENDIX B.1: RF EXPOSURE COMPLIANCE	2
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Appendix B.1: RF Exposure Compliance

Radio Frequency Exposure Compliance

RESULT:

Pass

Test standard : FCC 1.1310
RSS-102 Issue 5
KDB 447498 D01 General RF Exposure Guidance v06

This device is Bluetooth 4.0 Low Energy.

This RF exposure evaluation is only for Bluetooth 4.0 Low Energy operation.

Since the maximum peak output power of the transmitter is 0.3 mW. The maximum peak output power is less than 10mW (FCC Limit) and 4mW (IC Limit), hence the EUT is excluded from SAR evaluation according to FCC KDB 447498 D01: Mobile Portable RF Exposure and RSS-102 Issue 5.