Prüfbericht-Nr.: *Test Report No.:*	**17051483 002**	**Auftrags-Nr.:** *Order No.:*	164040100	**Seite 1 von 71** *Page 1 of 71*
Kunden-Referenz-Nr.: *Client Reference No.:*	440253	**Auftragsdatum:** *Order date.:*	02.07.2015	
Auftraggeber: *Client:*	**Dongguan Alllike Electronics Co., Ltd.** Chuancha Development Zone, Machong Town, Dongguan, Guangdong, China			
Prüfgegenstand: *Test item:*	Bluetooth/CD Compact Shelf System			
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	NS-SH513			
Auftrags-Inhalt: *Order content:*	FCC and IC			
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 FCC KDB Publication 447498 v05r02 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109		RSS-247 Issue 1 May 2015 RSS-Gen Issue 4 November 2014 ICES-003 Issue 5 August 2012 RSS-102 Issue 5 March 2015	
Wareneingangsdatum: *Date of receipt:*	07.07.2015			
Prüfmuster-Nr.: *Test sample No.:*	A000217399-001			
Prüfzeitraum: *Testing period:*	10.07.2015 - 06.08.2015			
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:*		
08.09.2015	Ryan Yang / Senior Project Engineer		08.09.2015	Sam Lin / Technical Certifier	
Datum *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*	**Datum** *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*

Sonstiges / *Other:*

FCC ID: BUQF106BT4
IC: 11059A-F106BT4

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery:*	Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged:*

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhalt
	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 specifications(s)		F(ail) = failed a.m. test specifications(s)	N/A = not applicable	N/T = not tested

TÜV Rheinland LGA Products GmbH · Tillystrasse 2 · D-90431 Nürnberg · Tel.: +49 911 655 5225 · Fax +49 911 655 5226
Mail: service@de.tuv.com · Web: www.tuv.com

Test Summary

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 PEAK CONDUCTED OUTPUT POWER
RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY
RESULT: Pass

5.1.4 6DB BANDWIDTH
RESULT: Pass

5.1.5 99% BANDWIDTH
RESULT: Pass

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

5.1.7 RADIATED SPURIOUS EMISSION
RESULT: Pass

5.1.8 20DB BANDWIDTH
RESULT: Pass

5.1.9 CARRIER FREQUENCY SEPARATION
RESULT: Pass

5.1.10 NUMBER OF HOPPING FREQUENCY
RESULT: Pass

5.1.11 TIME OF OCCUPANCY
RESULT: Pass

5.1.12 CONDUCTED EMISSIONS
RESULT: Pass

5.1.13 RADIATED EMISSION
RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS
RESULT: Pass

Contents

1 General Remarks

1.1 Complementary Materials

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

Appendix 1: Test result

2 Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

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

FCC Registration No.: 752051

Test site Industry Canada No.: 5077A-2

The tests at the test sites 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

Accurate Technology Co., Ltd.

Radio Spectrum Test				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Spectrum Analyzer	R&S	ESPI3	100396/003	09.01.2016
Spectrum Analyzer	Agilent	E7405A	MY45115511	09.01.2016
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	09.01.2016
Conducted Emissions				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Test Receiver	R&S	ESCS30	100307	09.01.2016
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	09.01.2016
Pulse Limiter	R&S	ESH3-Z2	100815	09.01.2016
50_ Coaxial Switch	Anritsu Corp	MP59B	6200283933	09.01.2016
Radiated Emission & Spurious Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Spectrum Analyzer	R&S	FSV40	101495	01.01.2016
Test Receiver	R&S	ESCS30	100307	01.01.2016
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	01.01.2016
Loop Antenna	Schwarzbeck	FMZB1516	1516131	01.01.2016
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	01.01.2016
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	01.01.2016
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	01.01.2016
Pre-Amplifier	R&S	CBLU11835 40-01	3791	01.01.2016
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	01.01.2016
RF Coaxial Cable	SUHNER	N-3m	No.8	01.01.2016
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	01.01.2016
RF Coaxial Cable	SUHNER	N-6m	No.10	01.01.2016
RF Coaxial Cable	RESENBERGER	N-12m	No.11	01.01.2016
50_ Coaxial Switch	Anritsu Corp	MP59B	6200283933	09.01.2016

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

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

2.5 Measurement Uncertainty

Parameter	Uncertainty
Radio Spectrum	± 0.60 dB
All Emission, Radiated	± 4.42 dB
Conducted Emission	± 2.23 dB
Radiated Emission	± 4.42 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 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. Test facility located at F1, Bldg. A, Changyuan New Meterial 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 CD compact shelf system with Bluetooth function.

Refer to User Manual and Circuit Diagram for further details.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

Technical Specification	Value	
Product Name	Bluetooth/CD Compact Shelf System	
Model Number	NS-SH513	
Operating Frequency	2402-2480MHz	
Extreme Temperature Range	-20℃ ~ +55℃	
Operation Voltage	AC 120V 60Hz	
Modulation	BDR mode	GFSK
	EDR mode	π/4DQPSK, 8DPSK
	Low Energy mode	GFSK
Number of Channel	BDR & EDR mode:79 channels;	Low Energy mode:40 channels
Channel Spacing	BDR & EDR mode: 1MHz;	Low Energy mode: 2MHz;
Bluetooth Version	Bluetooth 4.0 (dual mode)	
Antenna Type and Gain	PCB Antenna, 0 dBi	

Table 3: RF Channel and Frequency of Bluetooth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	20	2422.00	40	2442.00	60	2462.00
01	2403.00	21	2423.00	41	2443.00	61	2463.00
02	2404.00	22	2424.00	42	2444.00	62	2464.00
03	2405.00	23	2425.00	43	2445.00	63	2465.00
04	2406.00	24	2426.00	44	2446.00	64	2466.00
05	2407.00	25	2427.00	45	2447.00	65	2467.00
06	2408.00	26	2428.00	46	2448.00	66	2468.00
07	2409.00	27	2429.00	47	2449.00	67	2469.00
08	2410.00	28	2430.00	48	2450.00	68	2470.00
09	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00	/	/

Table 4: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	19	2440.00	29	2460.00	39	2480.00

3.3 Independent Operation Modes

The basic operation modes are:

A. On,
   1. Bluetooth mode (BDR & EDR mode)
      a. Transmitting
         1) Low Channel
         2) Middle Channel
         3) High Channel
      b. Receiving
   2. Bluetooth mode (Low Energy mode)
      a. Transmitting
         1) Low Channel
         2) Middle Channel
         3) High Channel
      b. Receiving

B. On, Transmitting on Hopping channel
C. On, Bluetooth connecting mode
D. Playing form CD
E. Playing form AUX input
F. Playing form USB
G. FM
   1. Low channel
   2. Middle channel
   3. High channel

H. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Bill of Material
- Block Diagram
- Circuit Diagram
- FCC/IC Label and Location
- Operation Description
- Photo Document
- User Manual

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
Mobile phone	HUAWEI	P7-L00	7NZMYN151S027984

4.4 Countermeasures to Achieve EMC Compliance

Additional countermeasures to the submitted test sample(s) for Radiated Emission were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

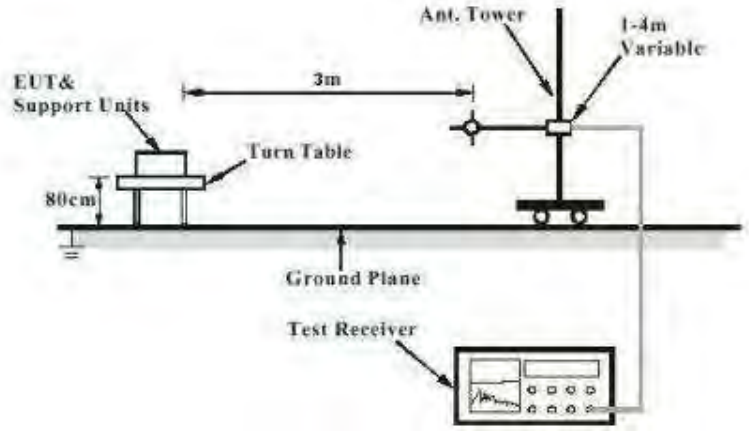


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

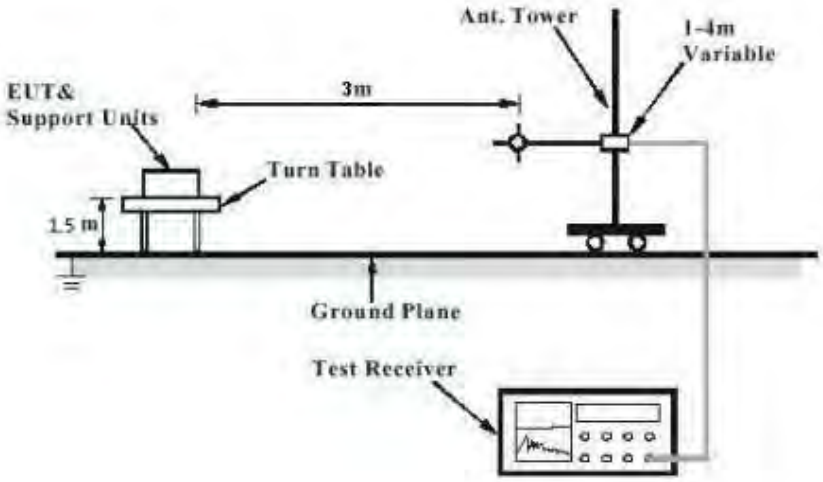


Diagram of Measurement Configuration for Mains Conduction Measurement

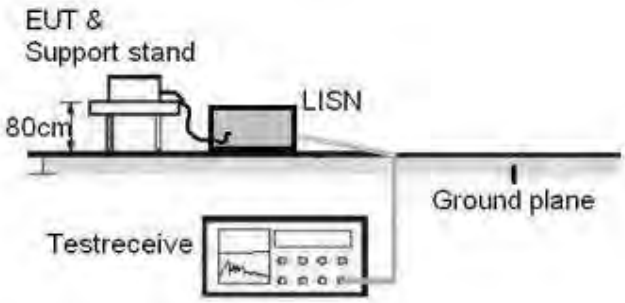
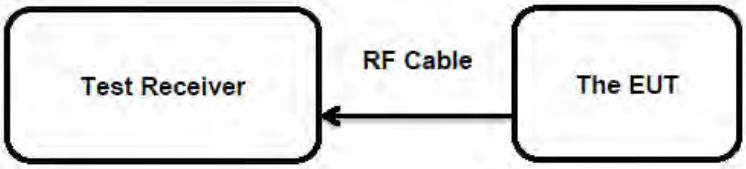


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(b)(4) and Part 15.203 RSS-Gen Clause 6.7
Limits	:	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 0 dBi, 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.

Therefore the EUT is considered sufficient to comply with the provision.

5.1.2 Peak Conducted Output Power

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(b)(1)&(3) RSS-247 Clause 5.4(2)&(4)	
Basic standard	:	ANSI C63.10: 2013	
Limits	:	BDR & EDR: 0.125 Watts	Low Energy: 1.0 Watts
Kind of test site	:	Shielded Room	

Test Setup

Date of testing	:	10.07.2015
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A.1.a, A.2.a
Test channel	:	Low / Middle/ High
Ambient temperature	:	25℃
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

Table 5: Test Result of Peak Conducted Output Power, BDR

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	-2.31	0.00059	0.125
Middle Channel	2441	1.43	0.00139	0.125
High Channel	2480	3.32	0.00215	0.125

Table 6: Test Result of Peak Conducted Output Power, EDR

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	-3.77	0.00042	0.125
Middle Channel	2441	0.25	0.00106	0.125
High Channel	2480	2.58	0.00181	0.125

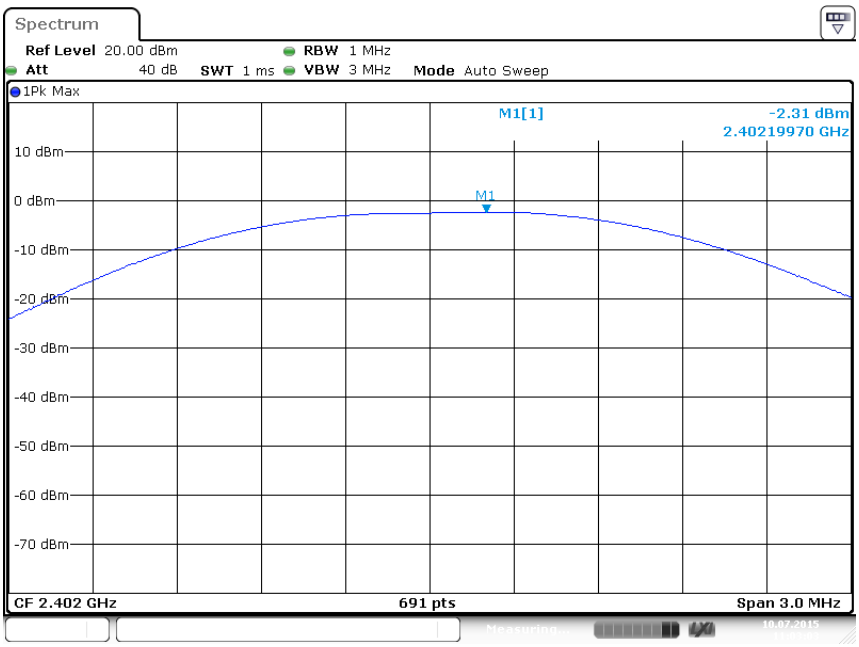
Table 7: Test Result of Peak Conducted Output Power, Low Energy

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	-0.18	0.00096	1.0
Middle Channel	2440	2.15	0.00164	1.0
High Channel	2480	3.92	0.00247	1.0

For the measurement records, refer to following test plot:

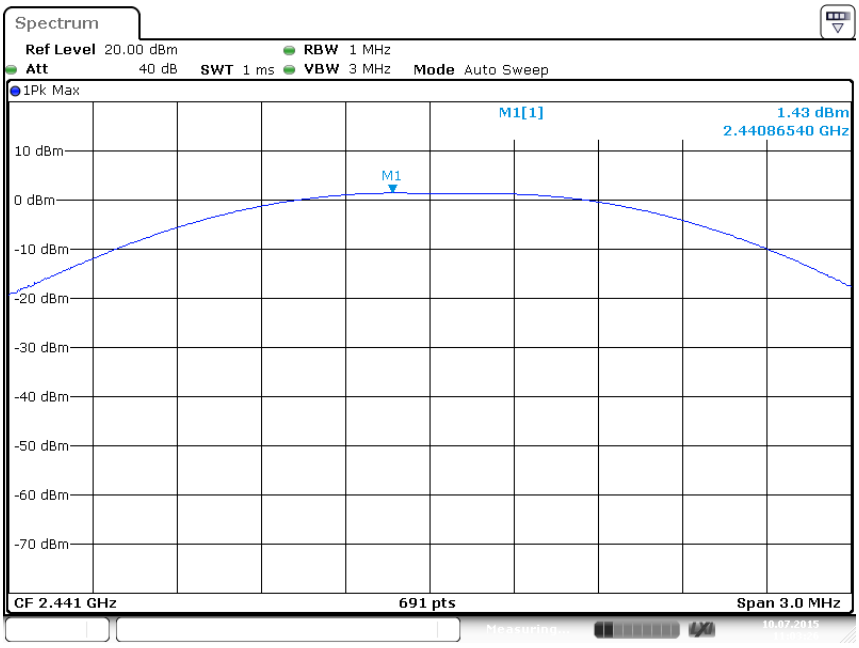
Test Plot of Peak Conducted Output Power, BDR

Low channel:



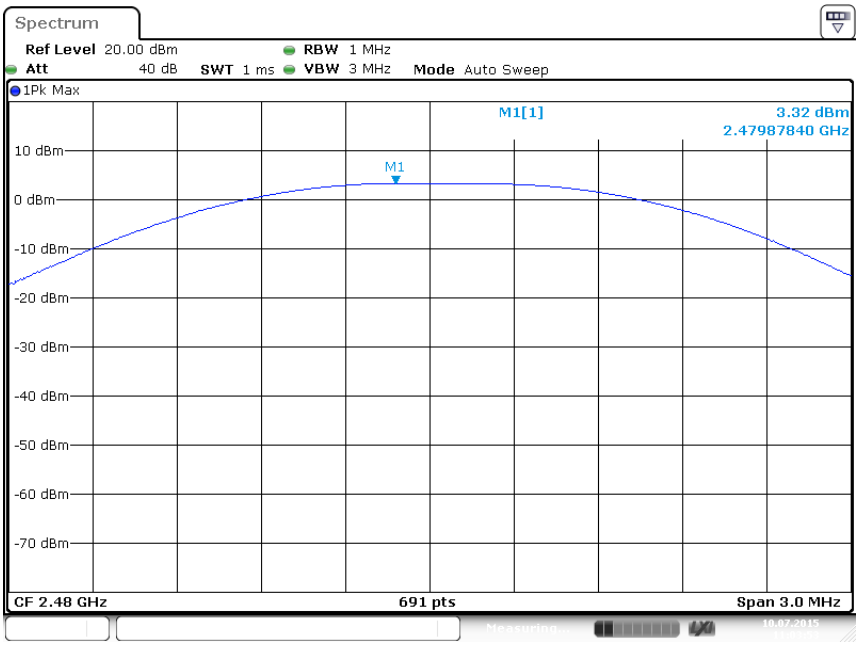
Date: 10.JUL.2015 11:03:03

Middle channel:



Date: 10.JUL.2015 11:03:26

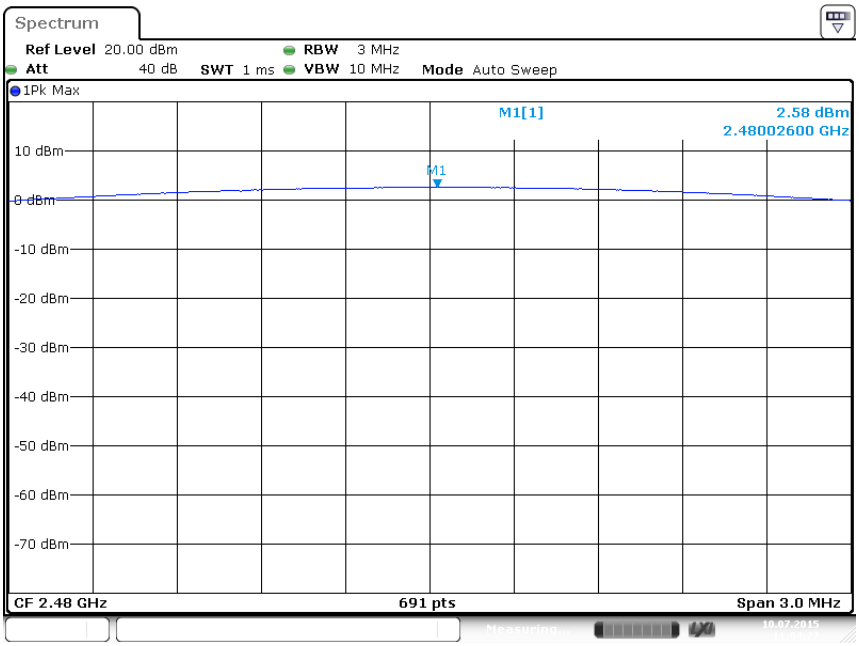
High channel:



Date: 10.JUL.2015 11:03:54

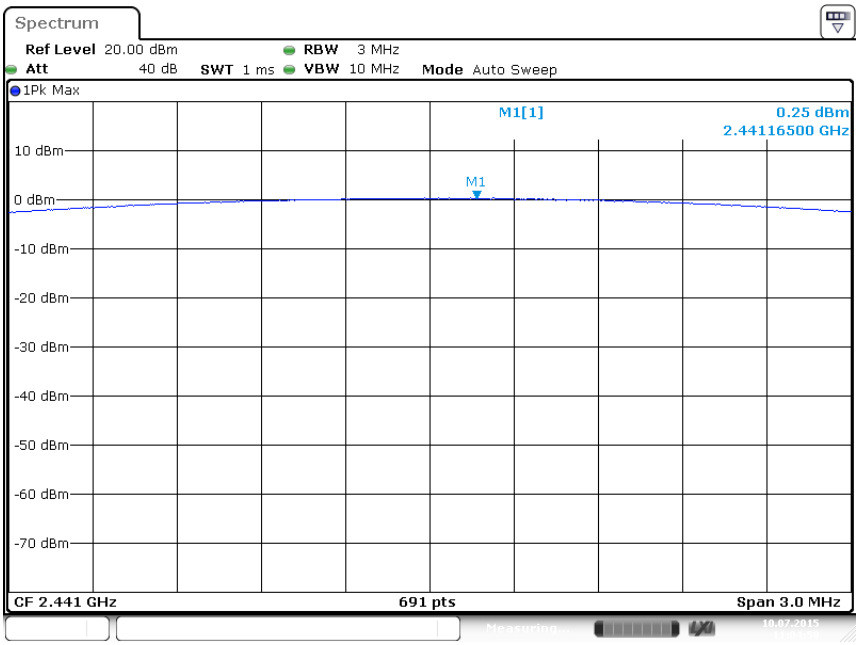
Test Plot of Peak Conducted Output Power, EDR

Low channel:



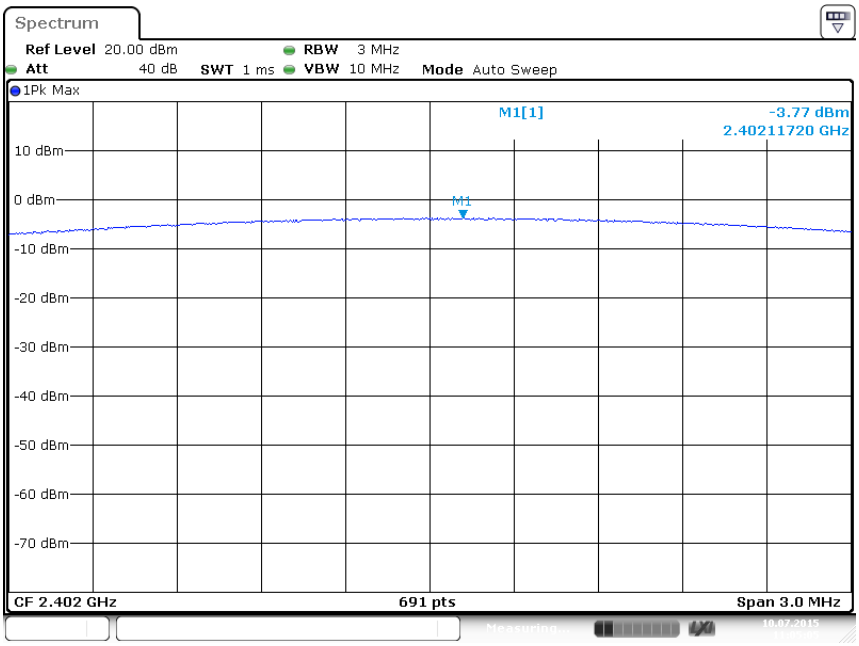
Date: 10.JUL.2015 11:04:27

Middle channel:



Date: 10.JUL.2015 11:04:51

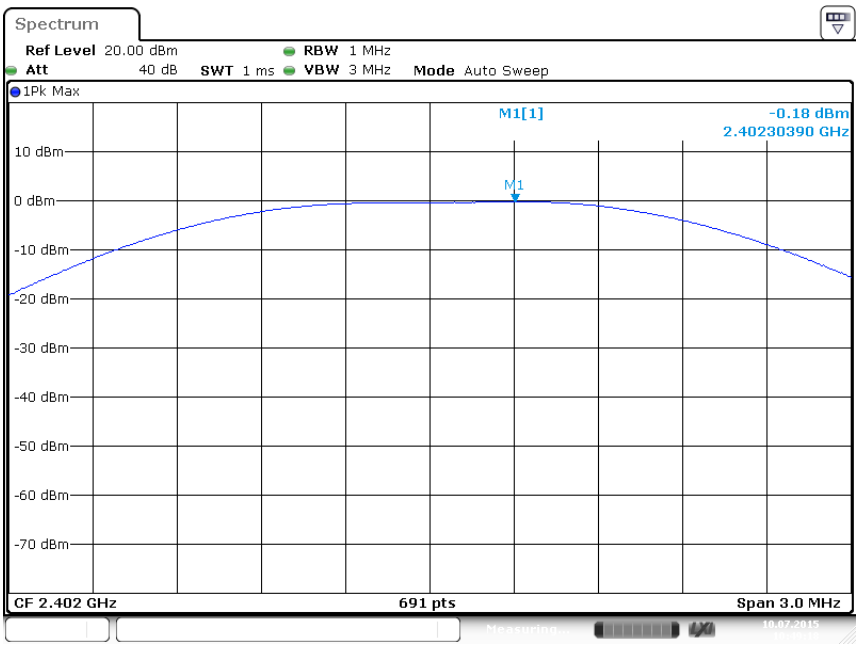
High channel:



Date: 10.JUL.2015 11:05:05

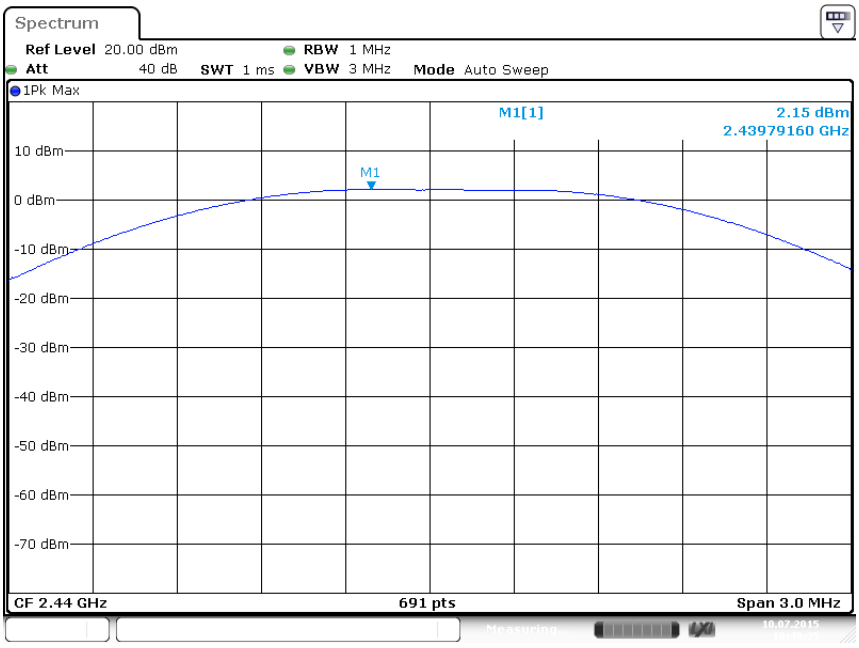
Test Plot of Peak Conducted Output Power, Low Energy

Low channel:



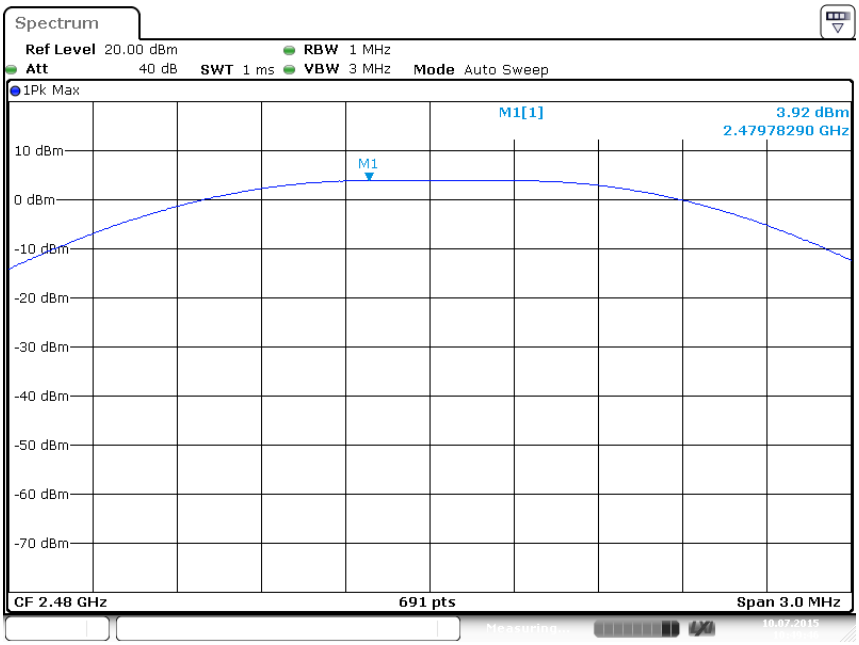
Date: 10.JUL.2015 10:49:18

Middle channel:



Date: 10.JUL.2015 10:49:35

High channel:



Date: 10.JUL.2015 10:49:47

5.1.3 Conducted Power Spectral Density

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(e)
		RSS-247 Clause 5.2(2)
Basic standard	:	ANSI C63.10: 2013
Limits	:	8 dBm / 3kHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	10.07.2015
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A.2.a
Test channel	:	Low / Middle/ High
Ambient temperature	:	25℃
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

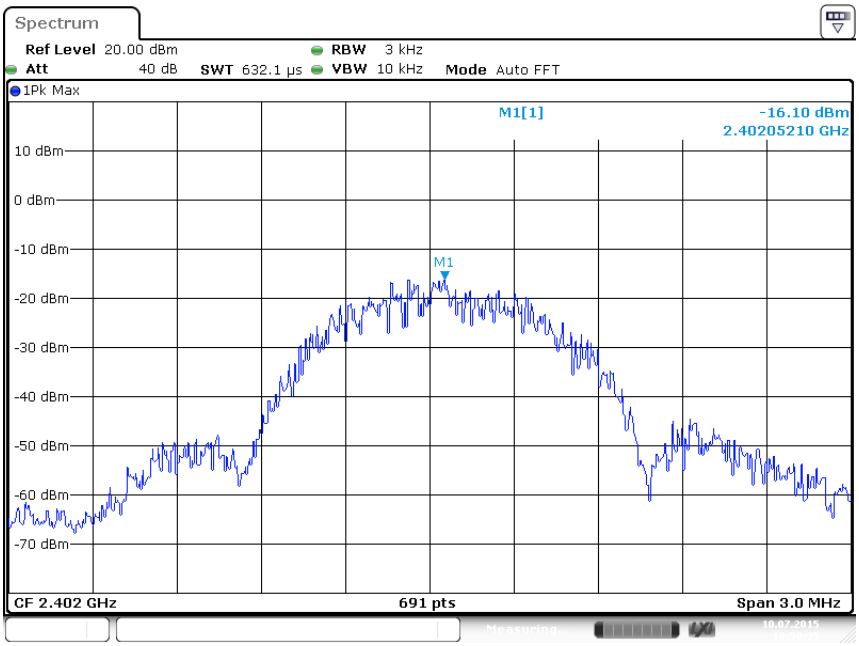
Table 8: Test Result of Power Spectral Density, Low Energy

Channel	Channel Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
Low Channel	2402	-16.10	8.0
Middle Channel	2440	-13.46	8.0
High Channel	2480	-11.47	8.0

For the measurement records, refer to following test plot:

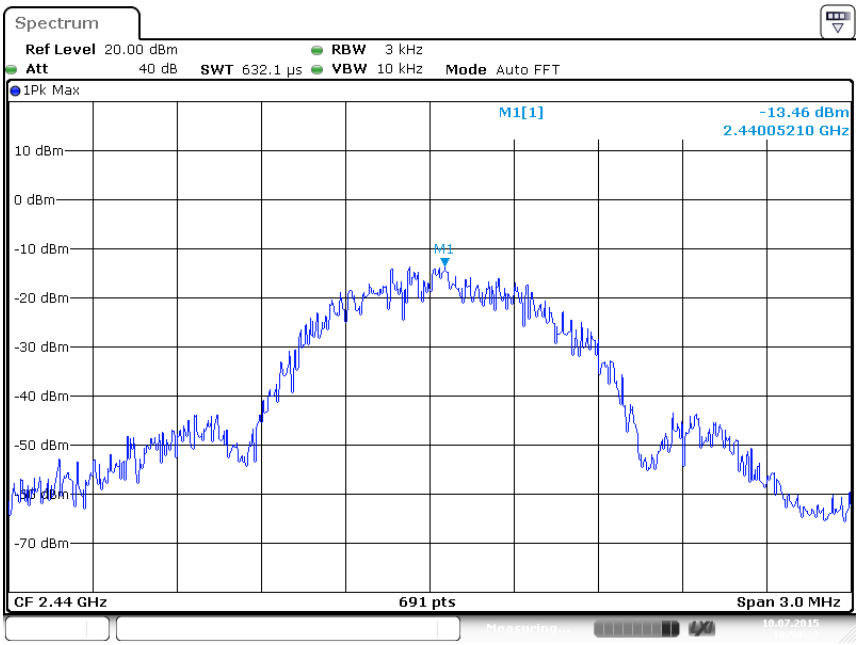
Test Plot of Power Spectral Density, Low Energy

Low channel:



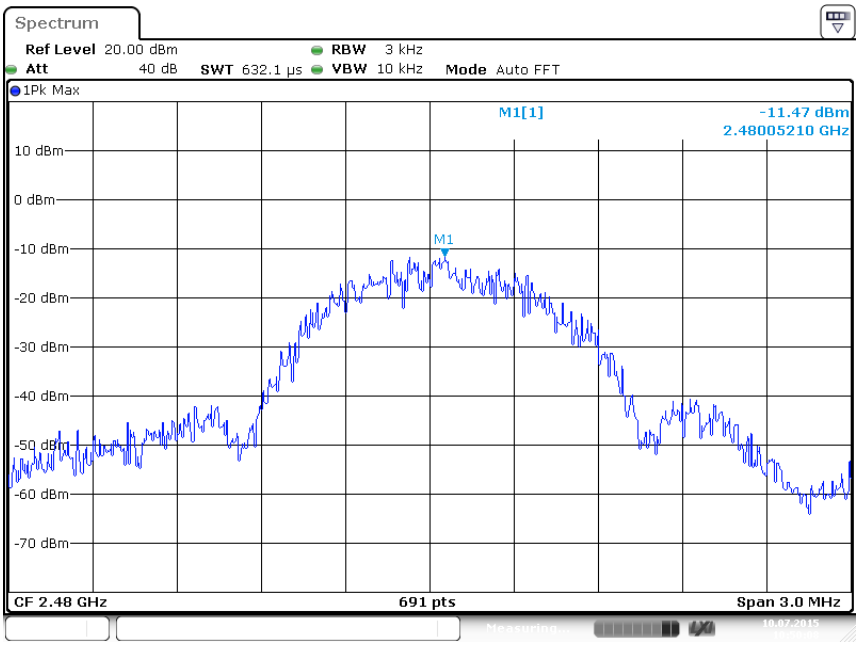
Date: 10.JUL.2015 10:50:36

Middle channel:



Date: 10.JUL.2015 10:50:23

High channel:



Date: 10.JUL.2015 10:50:09

5.1.4 6dB Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(2)
		RSS-247 Clause 5.2(1)
Basic standard	:	ANSI C63.10: 2013
Limits	:	More than 500 KHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	10.07.2015
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A.2.a
Test channel	:	Low / Middle/ High
Ambient temperature	:	25℃
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

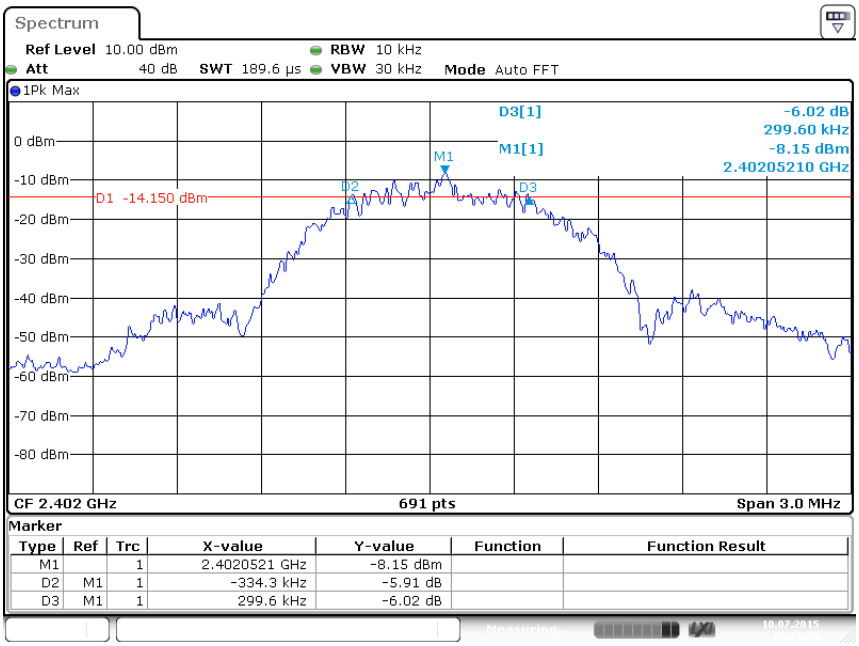
Table 9: Test Result of 6dB Bandwidth, Low Energy

Channel	Channel Frequency (MHz)	-6dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	633.9	> 500	Pass
Middle Channel	2440	633.9	> 500	Pass
High Channel	2480	633.9	> 500	Pass

For the measurement records, refer to following test plot:

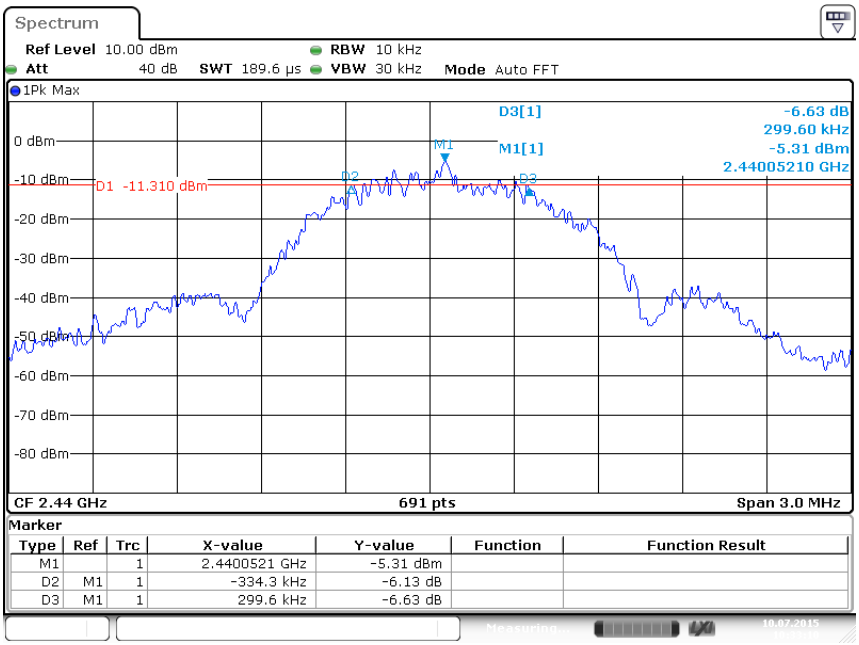
Test Plot of 6dB Bandwidth, Low Energy

Low channel:



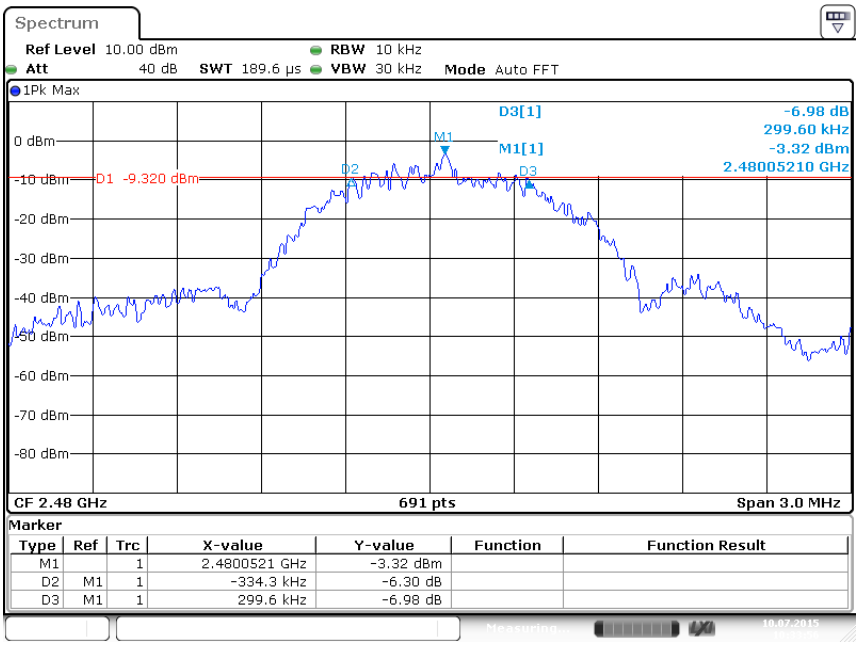
Date: 10.JUL.2015 10:31:46

Middle channel:



Date: 10.JUL.2015 10:33:10

High channel:



Date: 10.JUL.2015 10:33:56

5.1.5 99% Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	RSS-Gen Clause 6.6
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	10.07.2015
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A.1.a , A.2.a
Test channel	:	Low / Middle/ High
Ambient temperature	:	25℃
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

Table 10: Test Result of 99% Bandwidth, BDR mode

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	933.43	/	Pass
Middle Channel	2441	933.43	/	Pass
High Channel	2480	933.43	/	Pass

Table 11: Test Result of 99% Bandwidth, EDR mode

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	1193.92	/	Pass
Middle Channel	2441	1193.92	/	Pass
High Channel	2480	1193.92	/	Pass

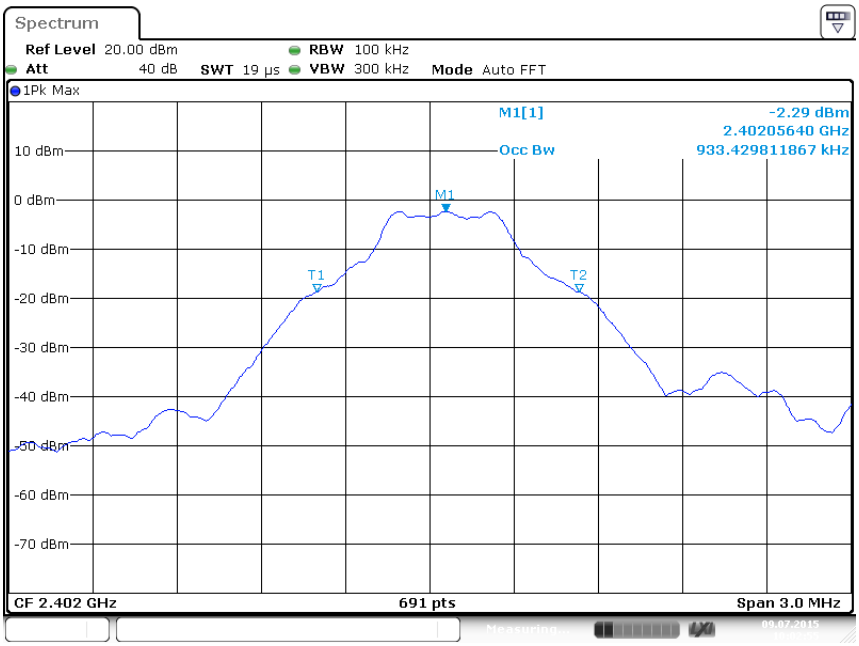
Table 12: Test Result of 99% Bandwidth, Low Energy

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	1046.31	/	Pass
Middle Channel	2440	1041.97	/	Pass
High Channel	2480	1046.31	/	Pass

For the measurement records, refer to following test plot:

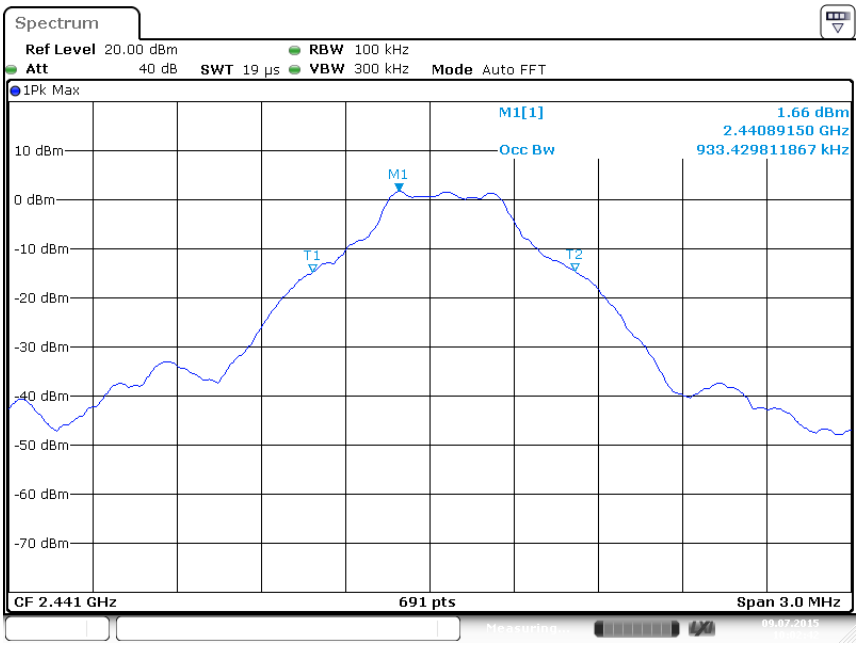
Test Plot of 99% Bandwidth, BDR

Low channel:



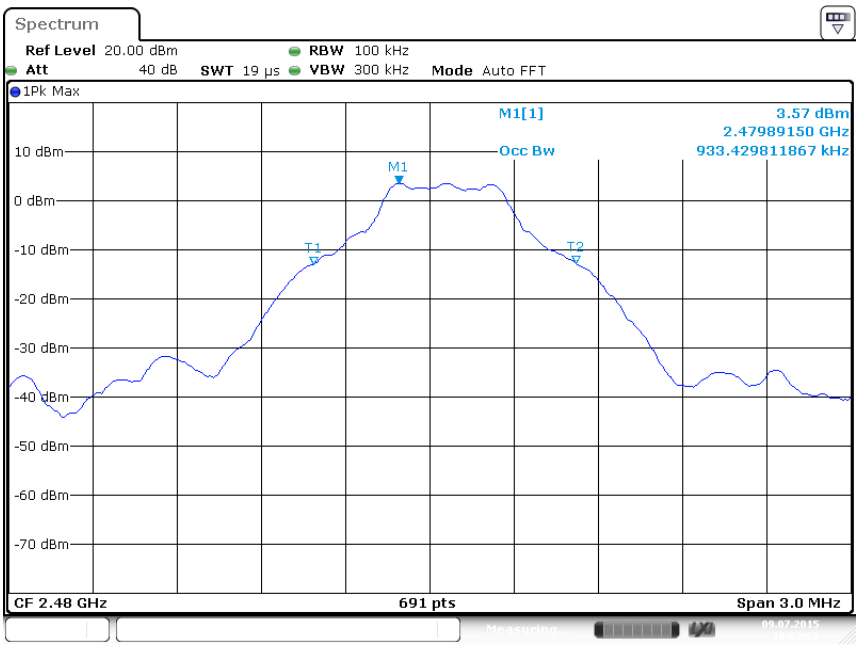
Date: 9.JUL.2015 10:02:55

Middle channel:



Date: 9.JUL.2015 10:02:42

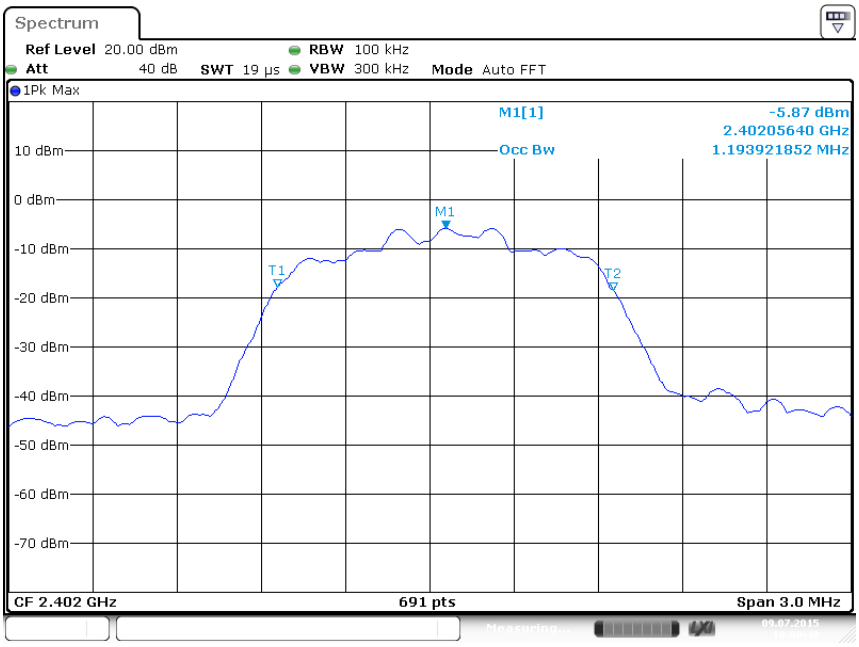
High channel:



Date: 9.JUL.2015 10:02:26

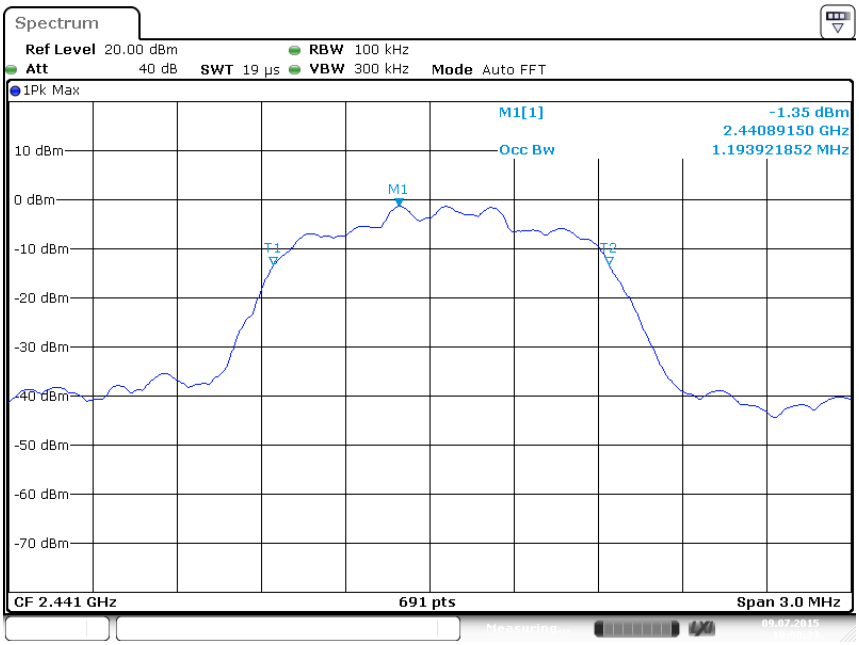
Test Plot of 99% Bandwidth, EDR

Low channel:



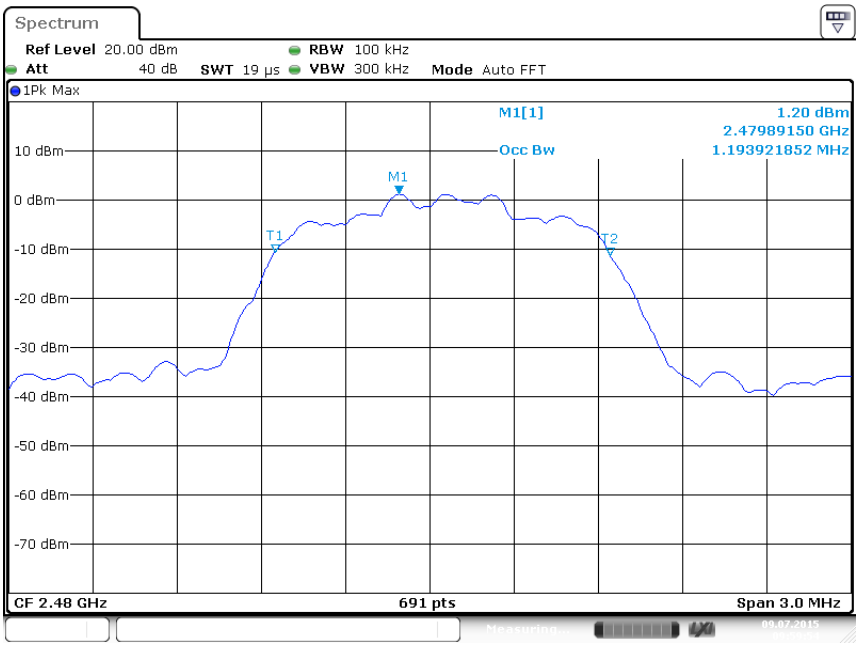
Date: 9.JUL.2015 10:00:40

Middle channel:



Date: 9.JUL.2015 10:00:22

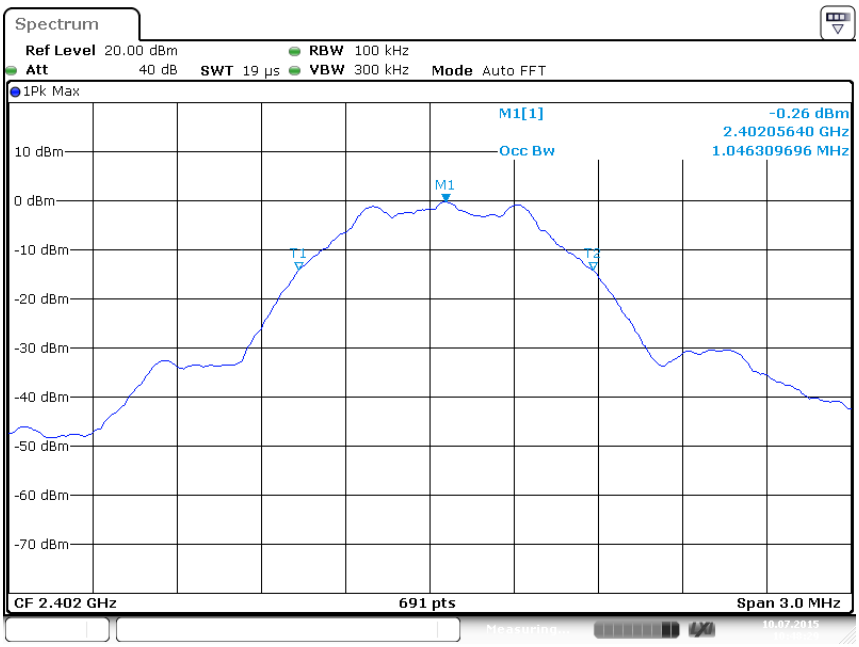
High channel:



Date: 9.JUL.2015 09:59:54

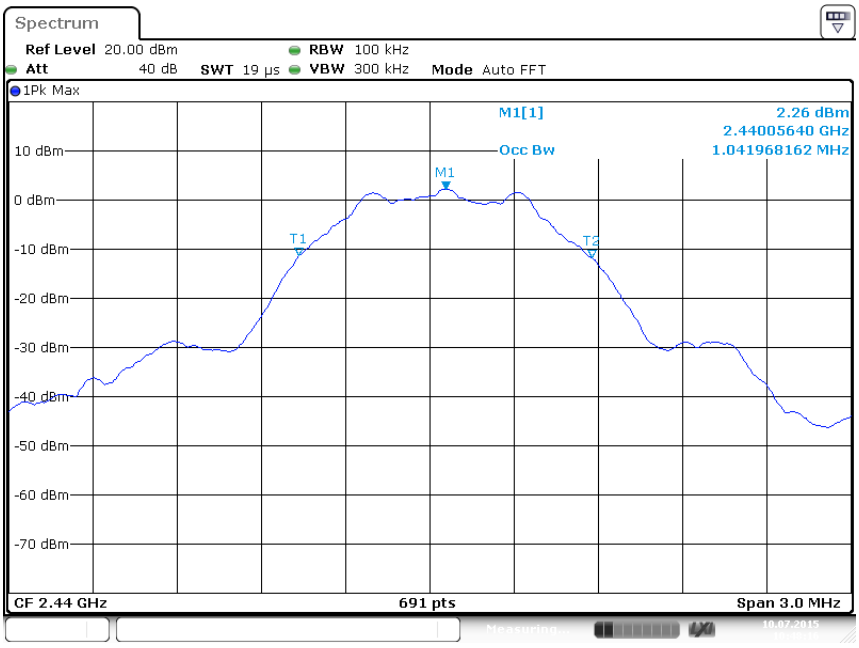
Test Plot of 99% Bandwidth, Low Energy

Low channel:



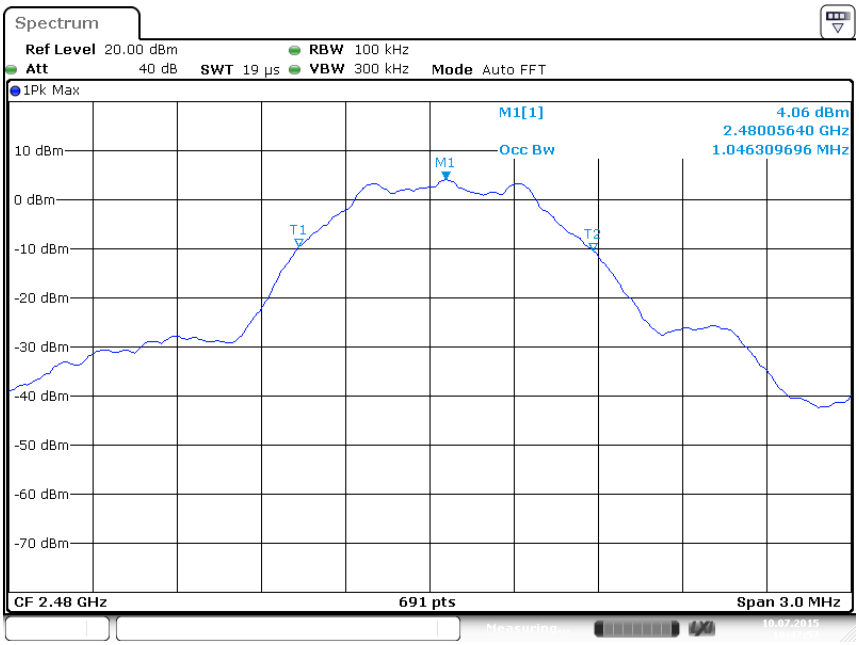
Date: 10.JUL.2015 10:48:29

Middle channel:



Date: 10.JUL.2015 10:48:16

High channel:



Date: 10.JUL.2015 10:47:57

5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	:	ANSI C63.10: 2013
Limits	:	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	:	Shielded Room

Test Setup

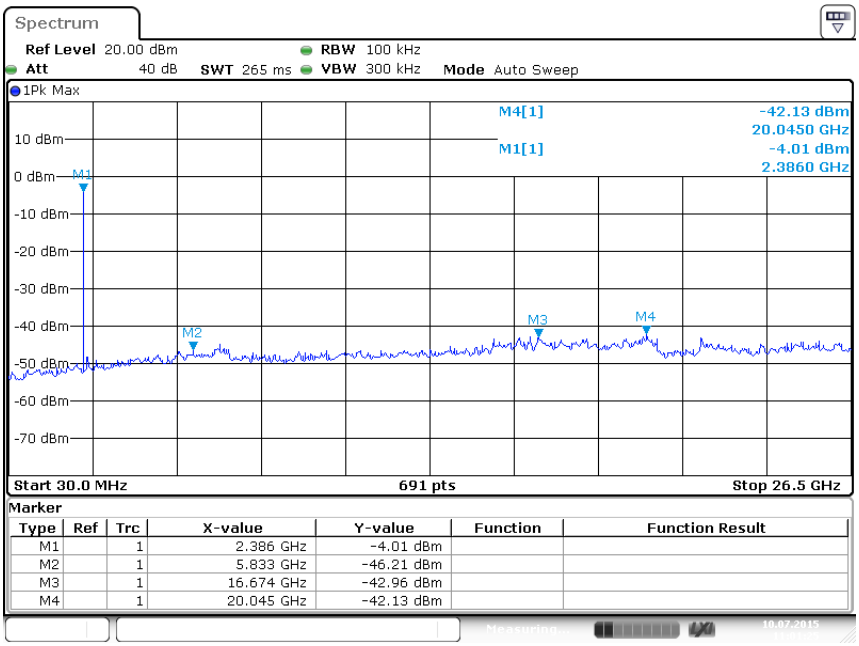
Date of testing	:	10.07.2015
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A.1.a, A.2.a
Test channel	:	Low / Middle/ High
Ambient temperature	:	25℃
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

All emissions are more than 20dB below fundamental, compliance is achieved as well.

For the measurement records, refer to following test plot:

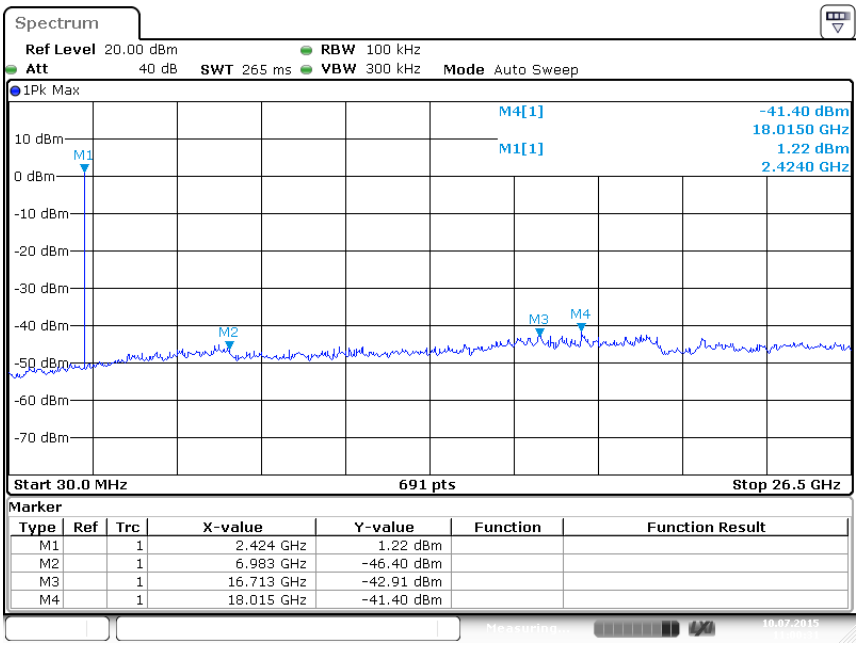
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of BDR mode

Low channel:



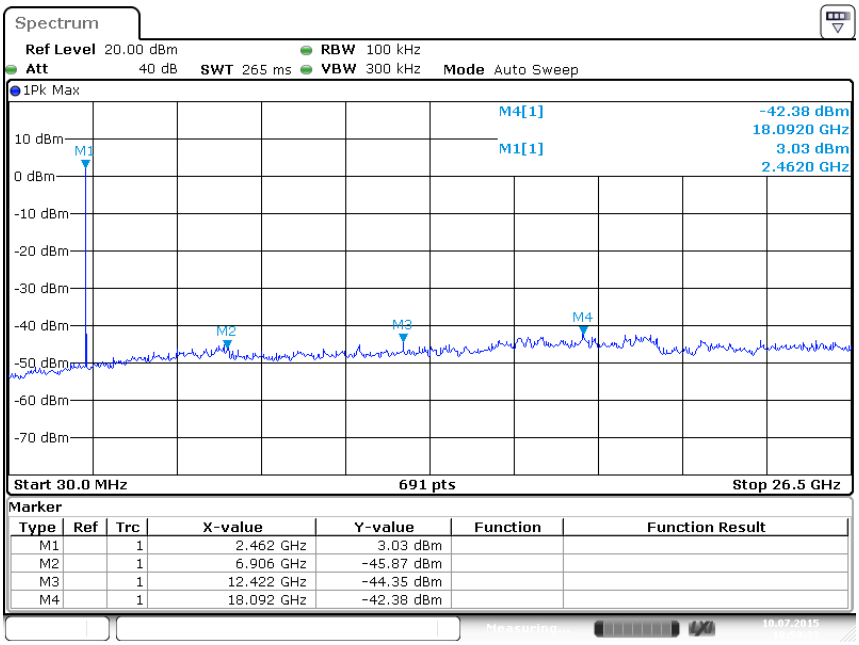
Date: 10.JUL.2015 11:01:25

Middle channel:



Date: 10.JUL.2015 11:00:31

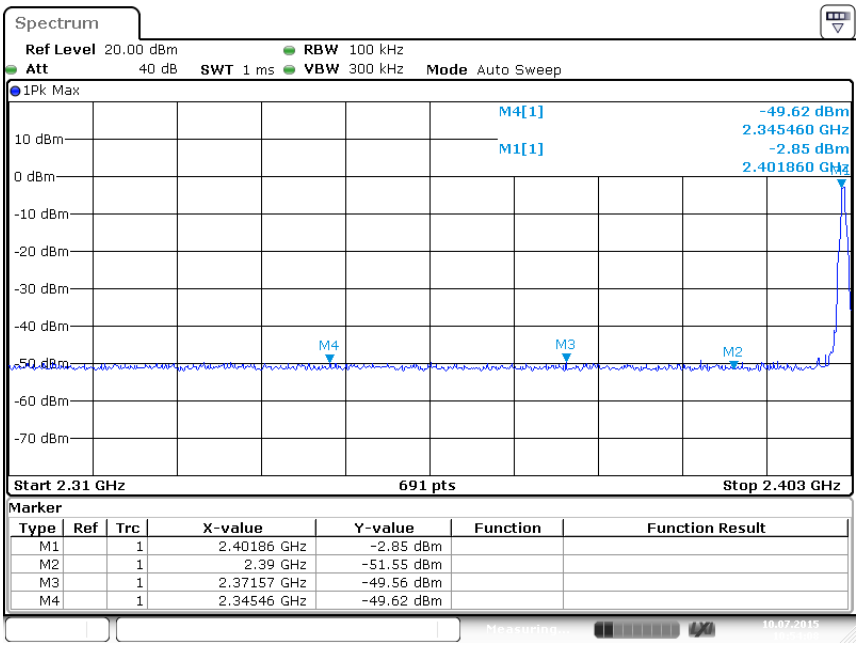
High channel:



Date: 10.JUL.2015 10:59:34

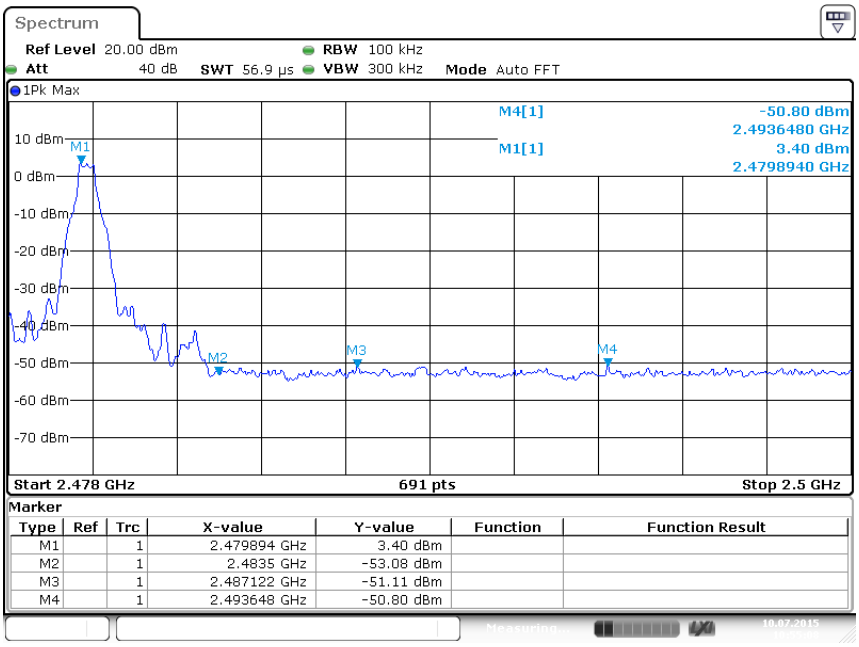
Test Plot of 100 kHz Bandwidth of Frequency Band Edge

Low channel:



Date: 10.JUL.2015 10:54:08

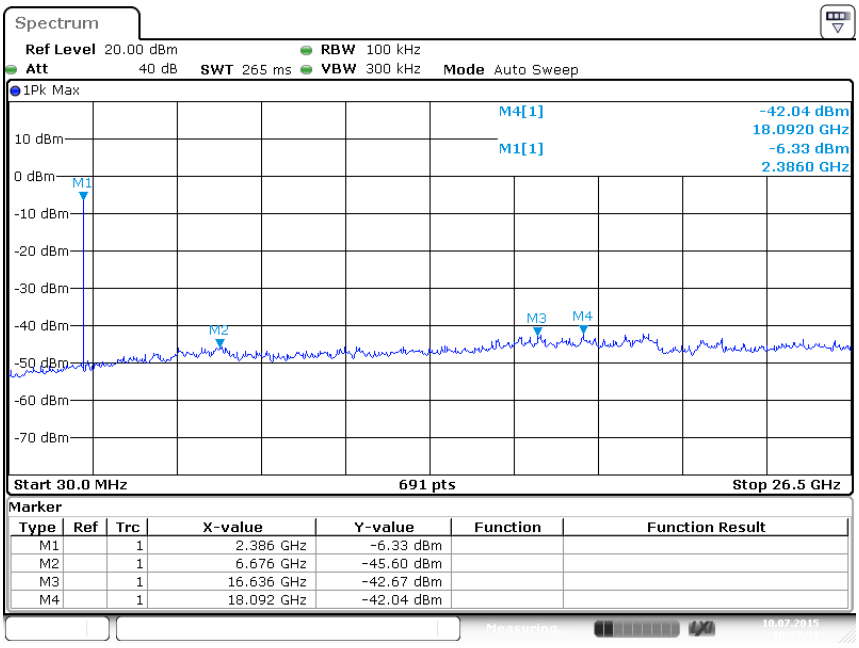
High channel:



Date: 10.JUL.2015 10:55:09

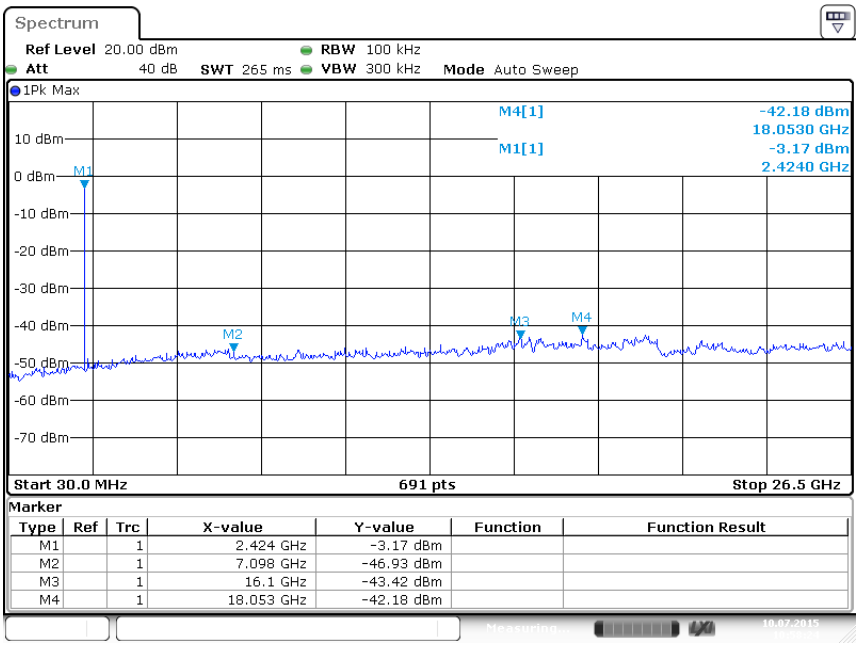
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of EDR mode

Low channel:



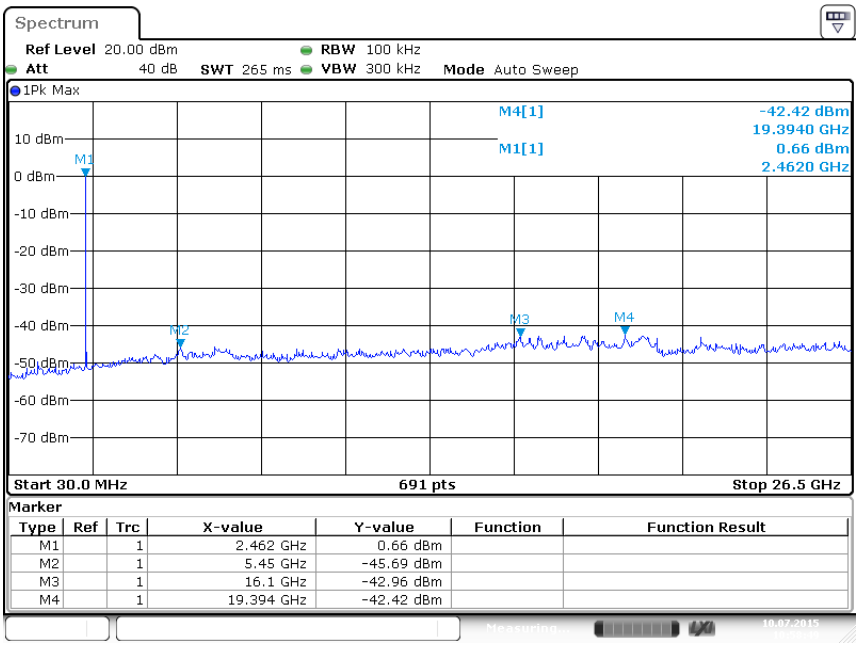
Date: 10.JUL.2015 10:57:51

Middle channel:



Date: 10.JUL.2015 10:58:24

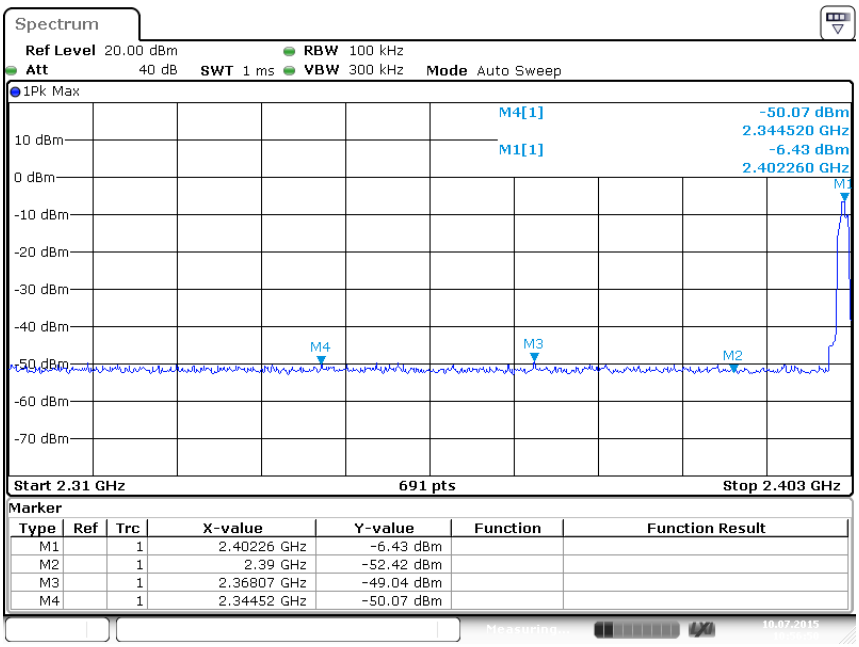
High channel:



Date: 10.JUL.2015 10:58:49

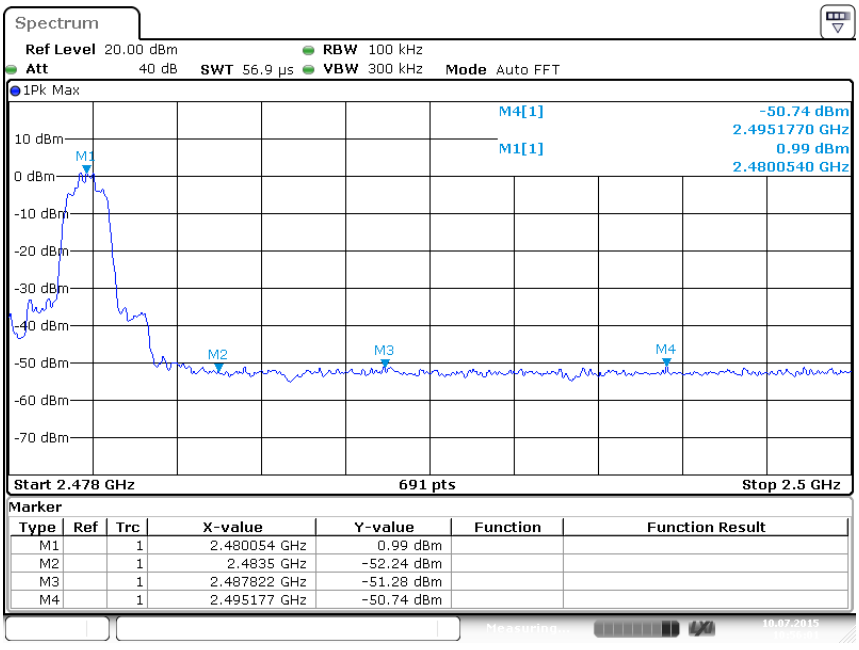
Test Plot of 100 kHz Bandwidth of Frequency Band Edge

Low channel:



Date: 10.JUL.2015 10:56:51

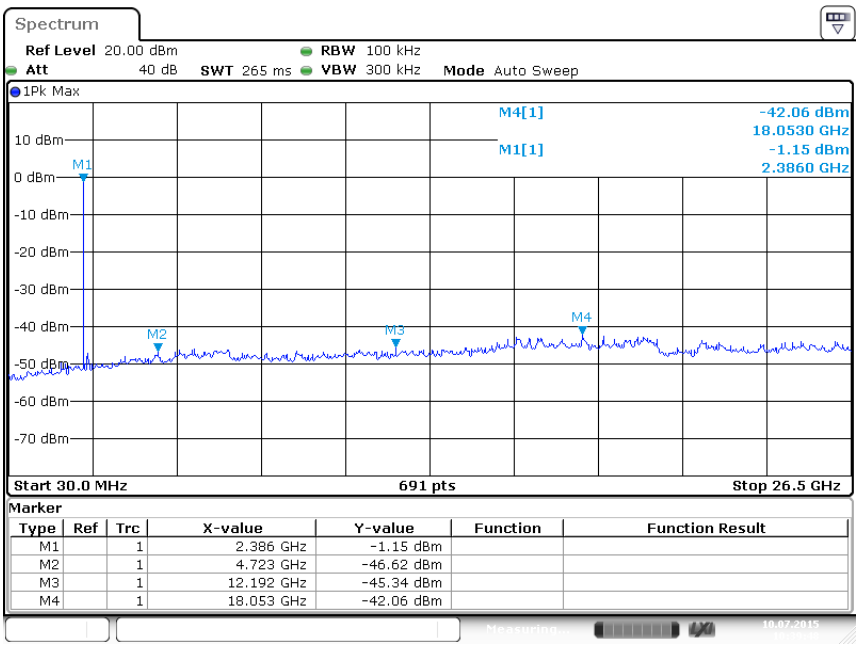
High channel:



Date: 10.JUL.2015 10:56:01

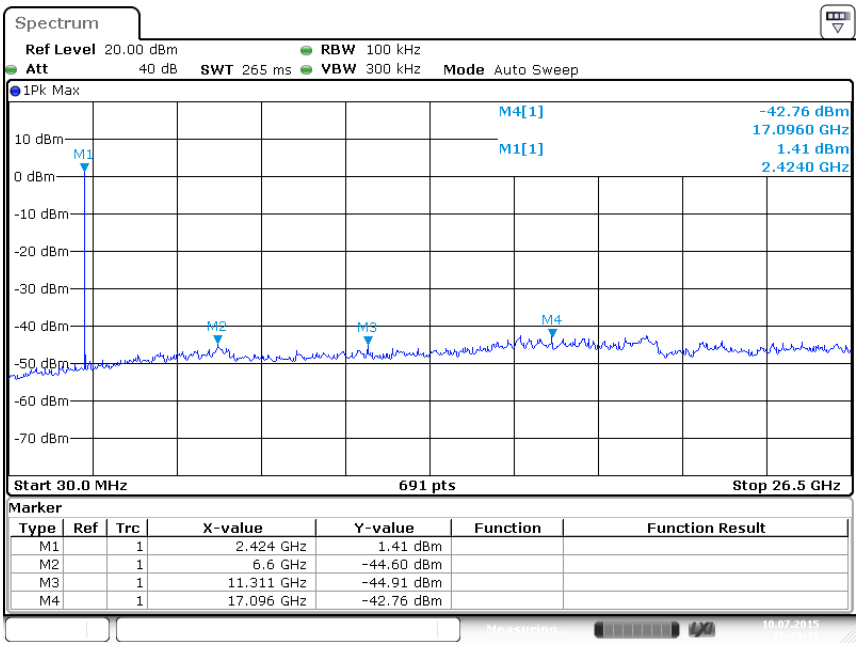
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of Low Energy

Low channel:



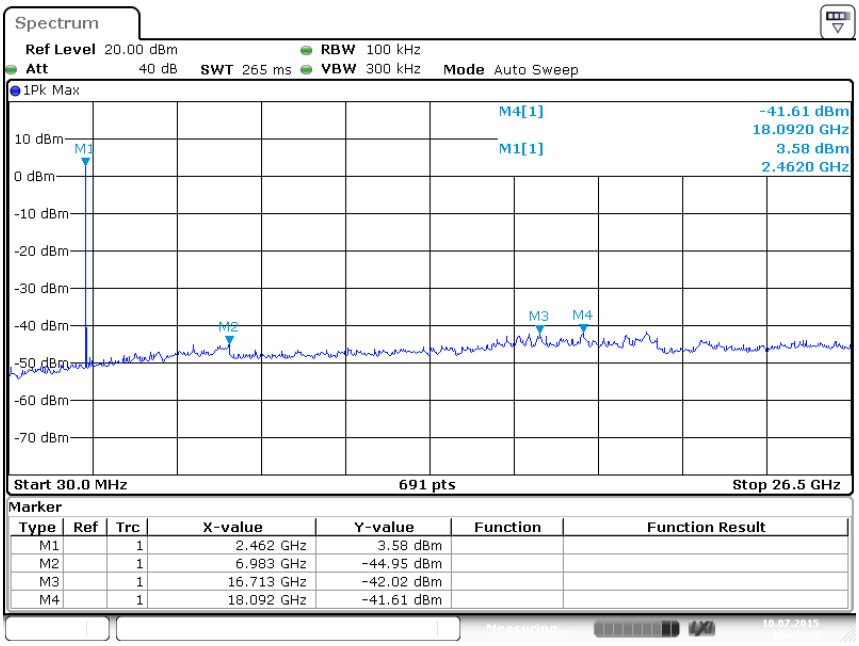
Date: 10.JUL.2015 10:39:49

Middle channel:



Date: 10.JUL.2015 10:39:16

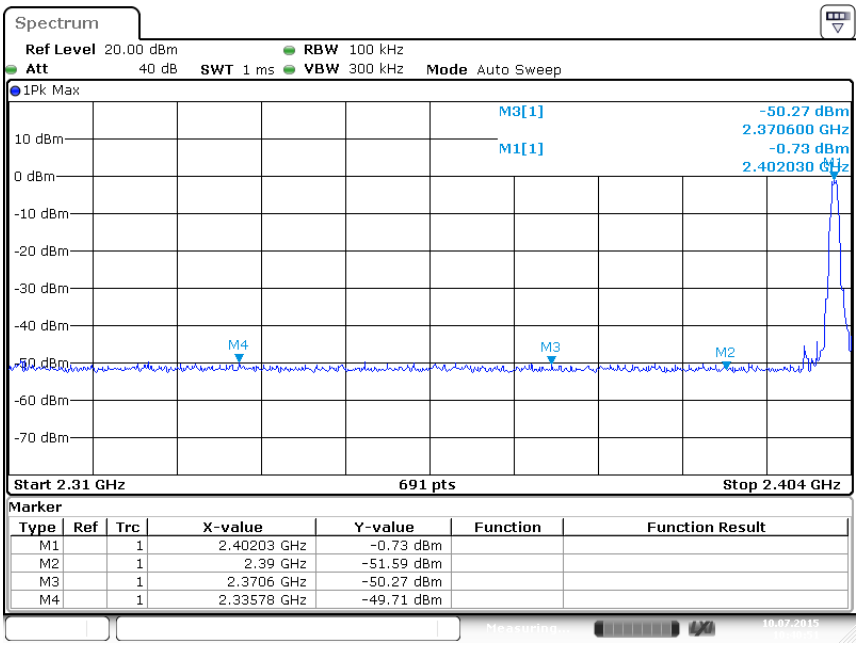
High channel:



Date: 10.JUL.2015 10:38:45

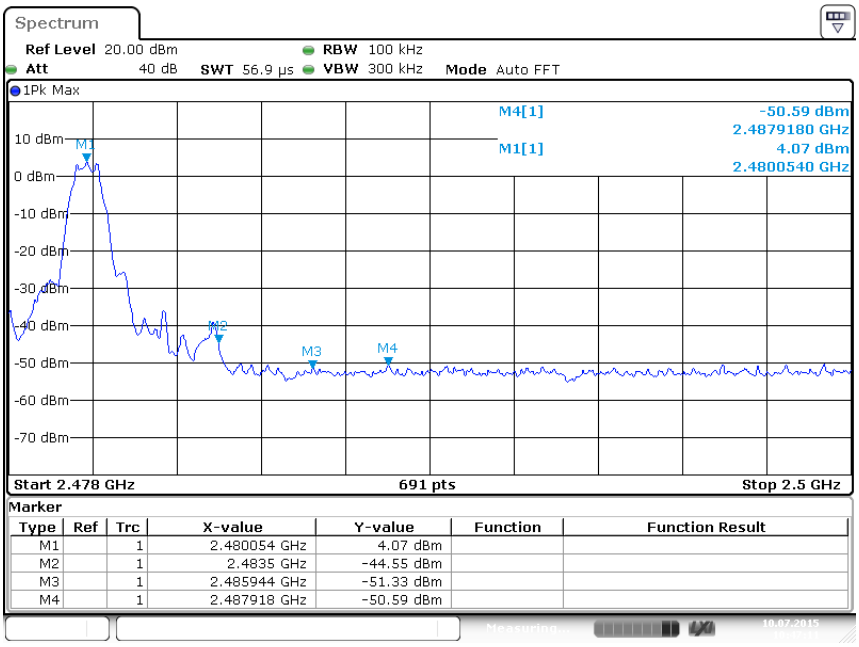
Test Plot of 100 kHz Bandwidth of Frequency Band Edge

Low channel:



Date: 10.JUL.2015 10:40:52

High channel:



Date: 10.JUL.2015 10:47:11

5.1.7 Radiated Spurious Emission

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(d), FCC Part 15.205
		RSS-247 Clause 3.3
Basic standard	:	ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d)
		RSS-Gen Table 4
Kind of test site	:	3m Semi-anechoic chamber

Test Setup

Date of testing	:	11.07.2015
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A.1.a, A.2.a
Test channel	:	Low / Middle/ High
Ambient temperature	:	25℃
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

Remark:
During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

Pre-test the EUT in continuous transmitting mode at the low (2402 MHz), middle (2441 MHz) and high (2480 MHz) channel with different data packet. Compliance test in continuous transmitting mode with BDR mode (DH5) as the worst case was found.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For the measurement records, refer to the appendix 1.

5.1.8 20dB Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1)
		RSS-247 Clause 5.1(1)
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	09.07.2015
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A.1.a
Test channel	:	Low / Middle/ High
Ambient temperature	:	25℃
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

Table 13: Test Result of 20dB Bandwidth, BDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	920.50	613.667	/	Pass
Middle Channel	2441	920.50	613.667	/	Pass
High Channel	2480	920.50	613.667	/	Pass

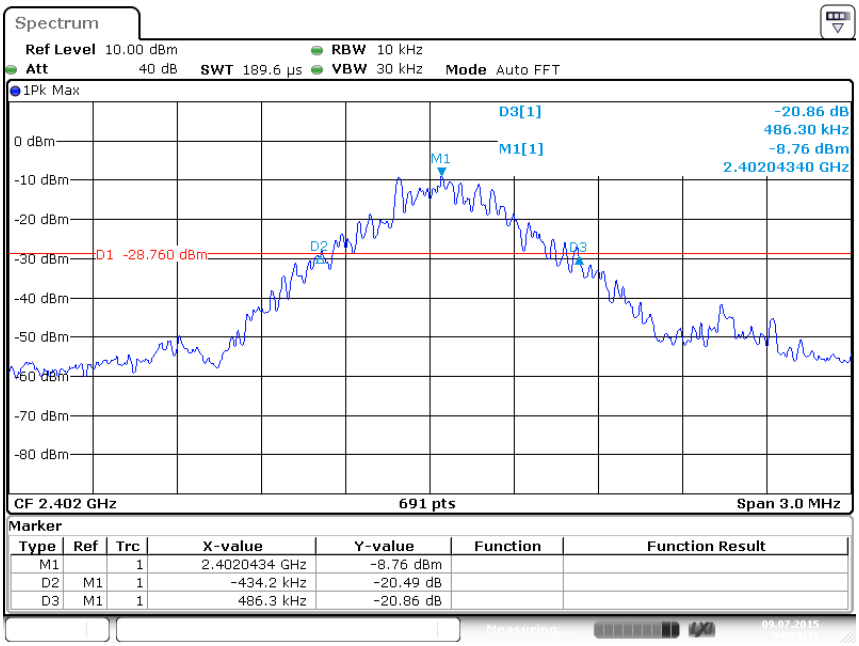
Table 14: Test Result of 20dB Bandwidth, EDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	1207.00	804.667	/	Pass
Middle Channel	2441	1202.60	801.733	/	Pass
High Channel	2480	1207.00	804.667	/	Pass

For the measurement records, refer to following test plot:

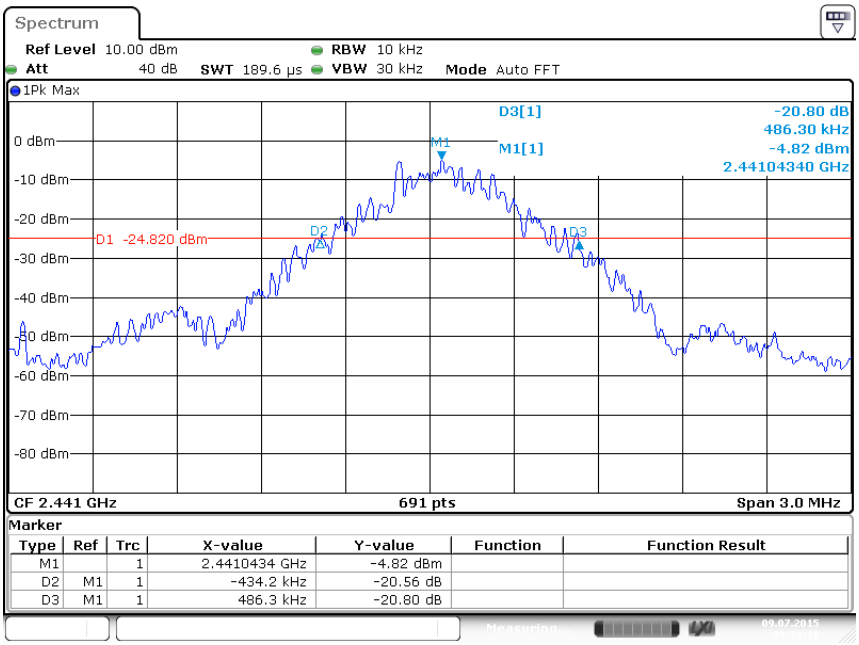
Test Plot of 20dB Bandwidth, BDR

Low channel:



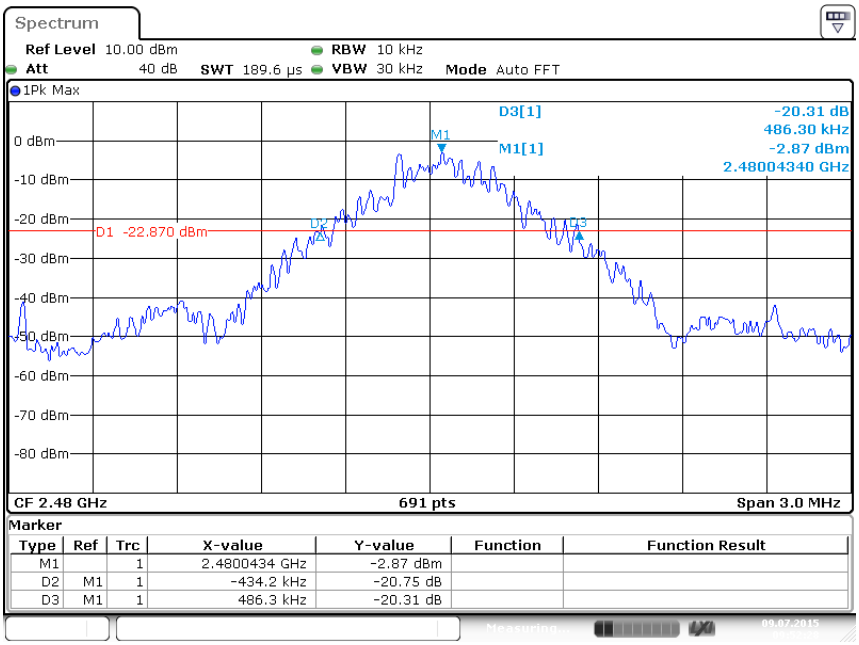
Date: 9.JUL.2015 09:54:18

Middle channel:



Date: 9.JUL.2015 09:53:18

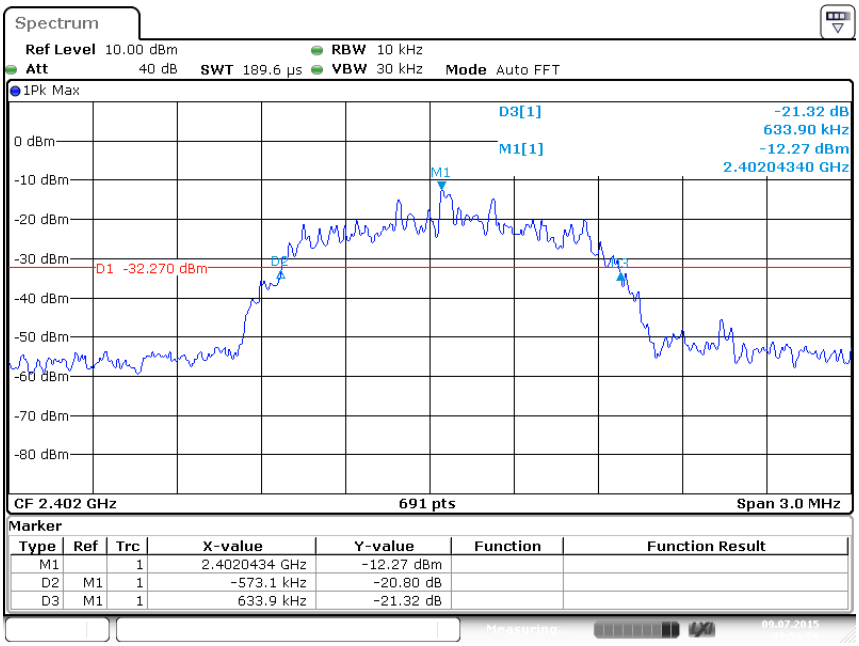
High channel:



Date: 9.JUL.2015 09:52:28

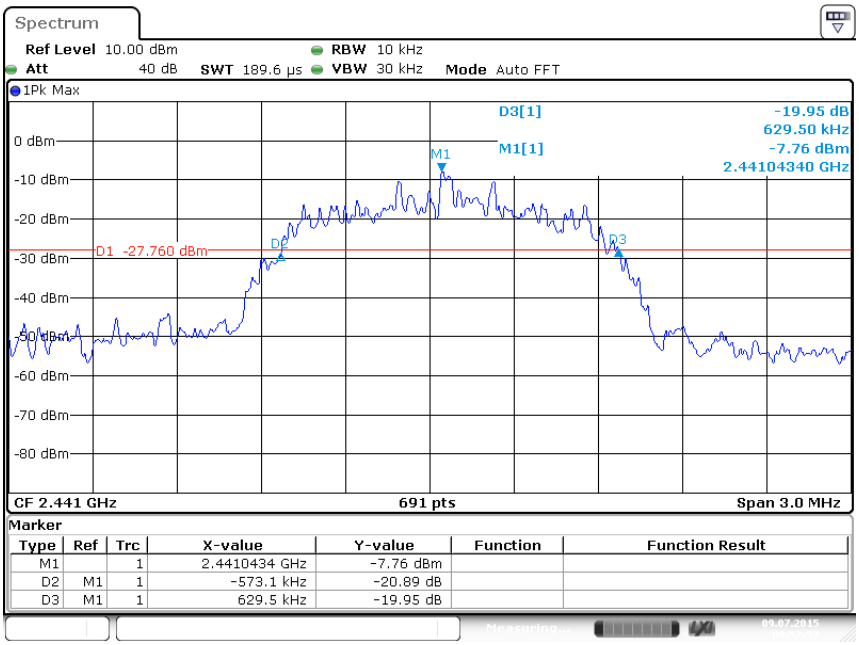
Test Plot of 20dB Bandwidth, EDR

Low channel:



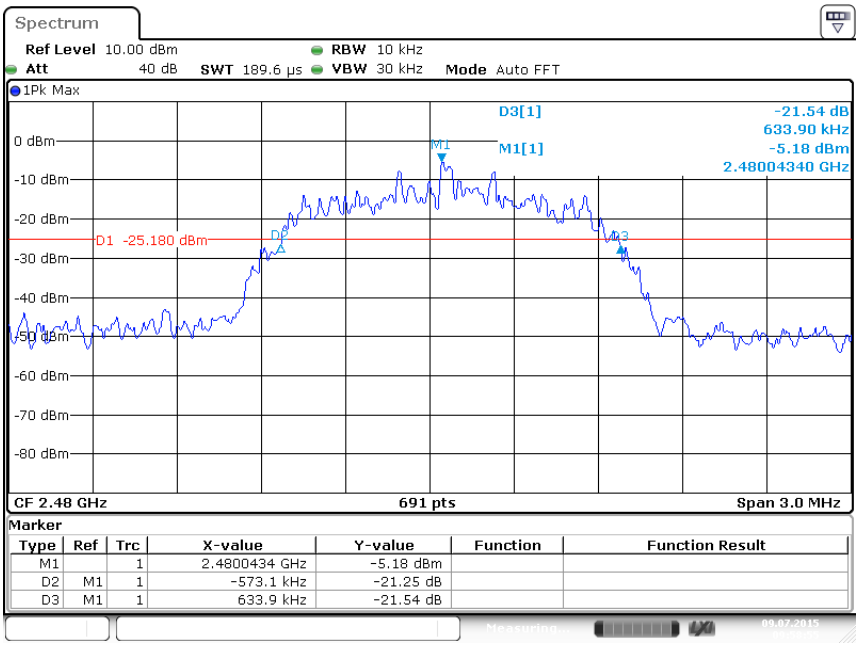
Date: 9.JUL.2015 09:56:56

Middle channel:



Date: 9.JUL.2015 09:57:57

High channel:



Date: 9.JUL.2015 09:58:55

5.1.9 Carrier Frequency Separation

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1)
		RSS-247 Clause 5.1(2)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 25kHz or 2/3 of 20dB bandwidth, whichever is greater
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	10.07.2015
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A.1.a
Test channel	:	Low / Middle/ High
Ambient temperature	:	25℃
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

Table 15: Test Result of Carrier Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (KHz)	Limit (kHz)	Result
Low Channel	2402	1002.9	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2403			
Middle Channel	2441	1002.9		Pass
Adjacency Channel	2442			
High Channel	2480	1002.9		Pass
Adjacency Channel	2479			

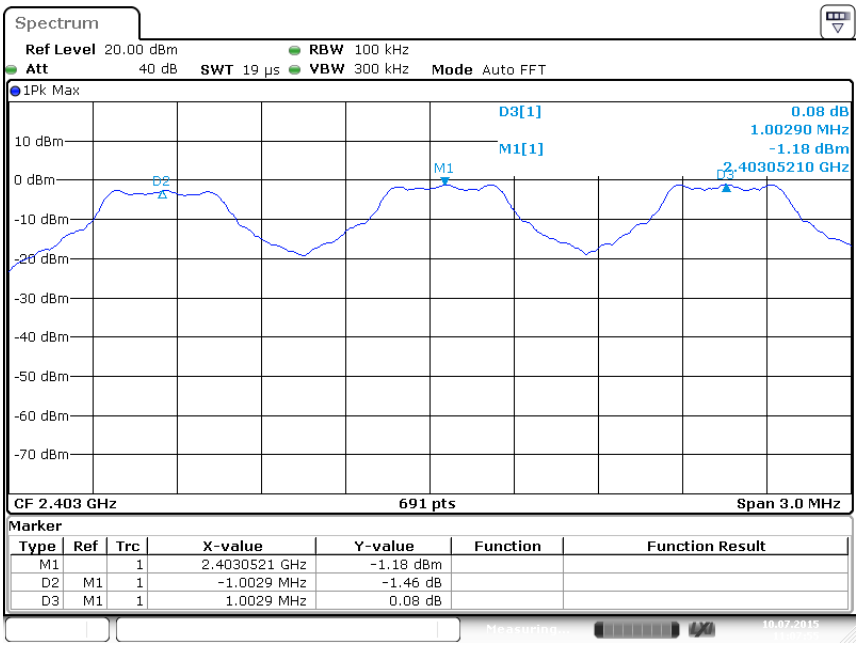
Note:

The limit is maximum 2/3 of the 20 dB bandwidth: 804.667 KHz.

For the measurement records, refer to following test plot:

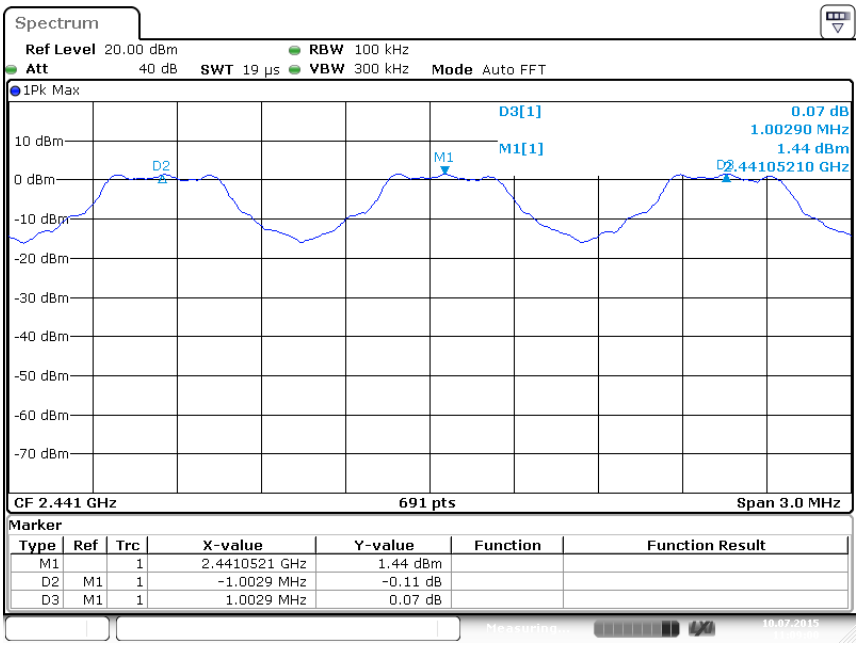
Test Plot of Carrier Frequency Separation

Low channel:



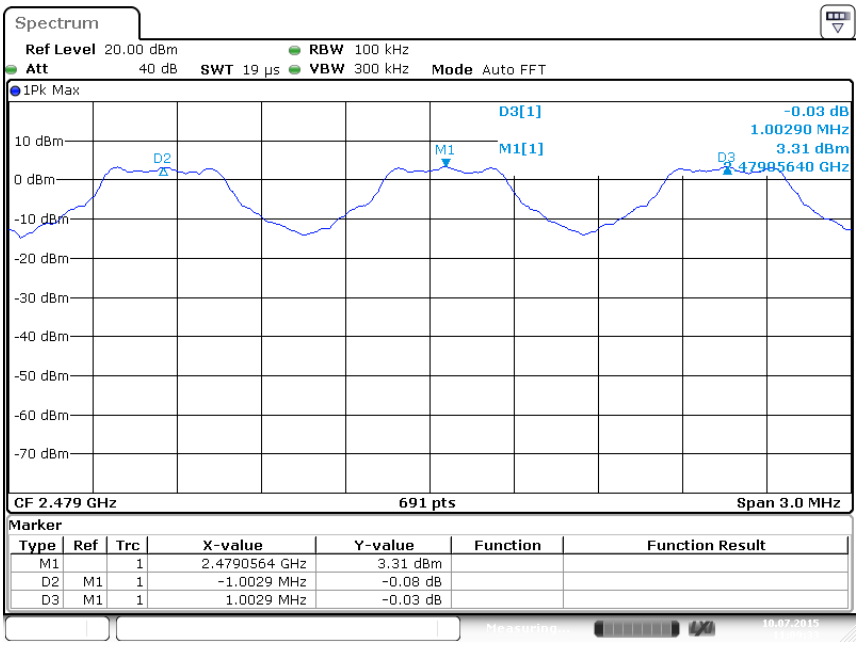
Date: 10.JUL.2015 11:07:56

Middle channel:



Date: 10.JUL.2015 11:09:01

High channel:



Date: 10.JUL.2015 11:09:33

5.1.10 Number of Hopping Frequency

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii)
		RSS-247 Clause 5.1(4)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shielded Room

Test Setup

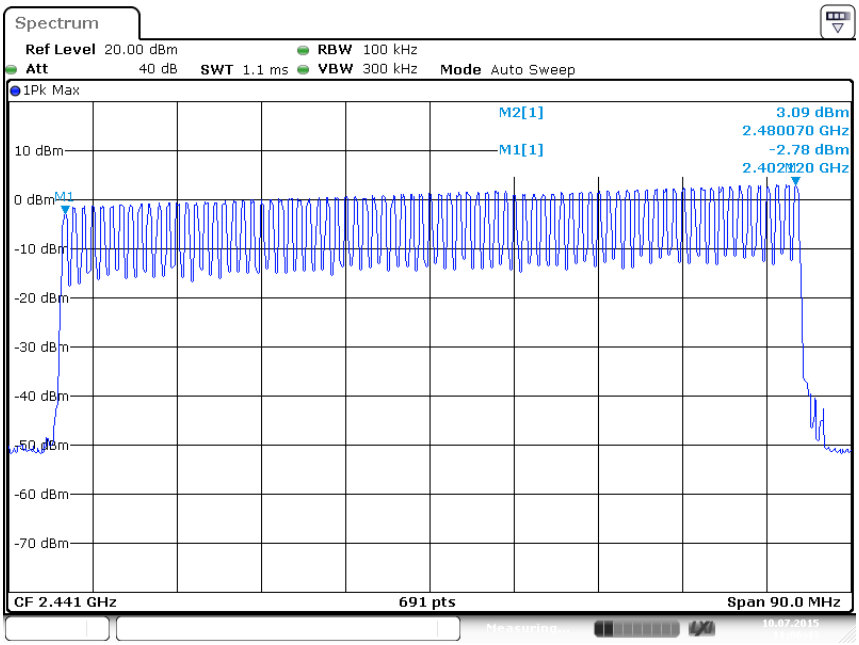
Date of testing	:	10.07.2015
Input voltage	:	AC 120V, 60Hz
Operation mode	:	B
Ambient temperature	:	25℃
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

Table 16: Test Result of Number of Hopping Frequency

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

For the measurement records, refer to following test plot:

Test Plot of Number of hopping frequency



Date: 10.JUL.2015 11:06:43

5.1.11 Time of Occupancy

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii)
		RSS-247 Clause 5.1(4)
Basic standard	:	ANSI C63.10: 2013
Limits	:	0.4s
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	10.07.2015
Input voltage	:	AC 120V, 60Hz
Test channel	:	Low / Middle/ High
Operation mode	:	A.1.a
Ambient temperature	:	25℃
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

Table 17: Test Result of Time of Occupancy, BDR mode

Channel	Data Mode	Pulse width (ms)	Measured Dwell time(s)	Limit (s)	Result
Low Channel	1DH1	0.449	0.144	0.4	Pass
	1DH3	1.710	0.274	0.4	Pass
	1DH5	2.978	0.318	0.4	Pass
Middle Channel	1DH1	0.435	0.139	0.4	Pass
	1DH3	1.710	0.274	0.4	Pass
	1DH5	2.978	0.318	0.4	Pass
High Channel	1DH1	0.449	0.144	0.4	Pass
	1DH3	1.710	0.274	0.4	Pass
	1DH5	3.000	0.320	0.4	Pass

Table 18: Test Result of Time of Occupancy, EDR mode

Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	3DH1	0.449	0.144	0.4	Pass
	3DH3	1.725	0.276	0.4	Pass
	3DH5	2.993	0.319	0.4	Pass
Middle Channel	3DH1	0.449	0.144	0.4	Pass
	3DH3	1.701	0.272	0.4	Pass
	3DH5	2.993	0.319	0.4	Pass
High Channel	3DH1	0.449	0.144	0.4	Pass
	3DH3	1.710	0.274	0.4	Pass
	3DH5	2.971	0.317	0.4	Pass

Note:

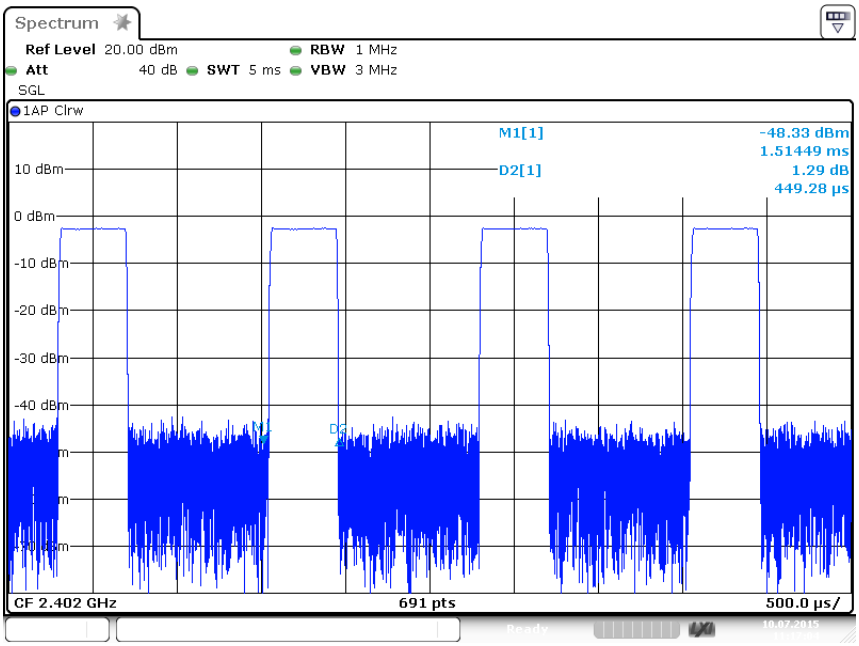
Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

Period = 0.4 (seconds/ channel) x 79 (channel) = 31.6 seconds

For the measurement records, refer to following test plot:

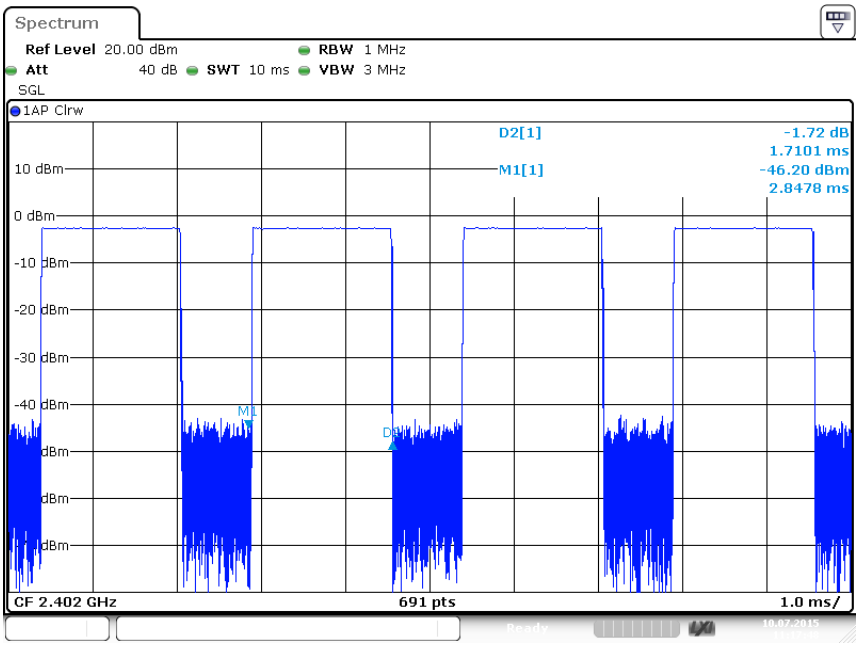
Test Plot of Time of Occupancy, BDR

Low channel: DH1



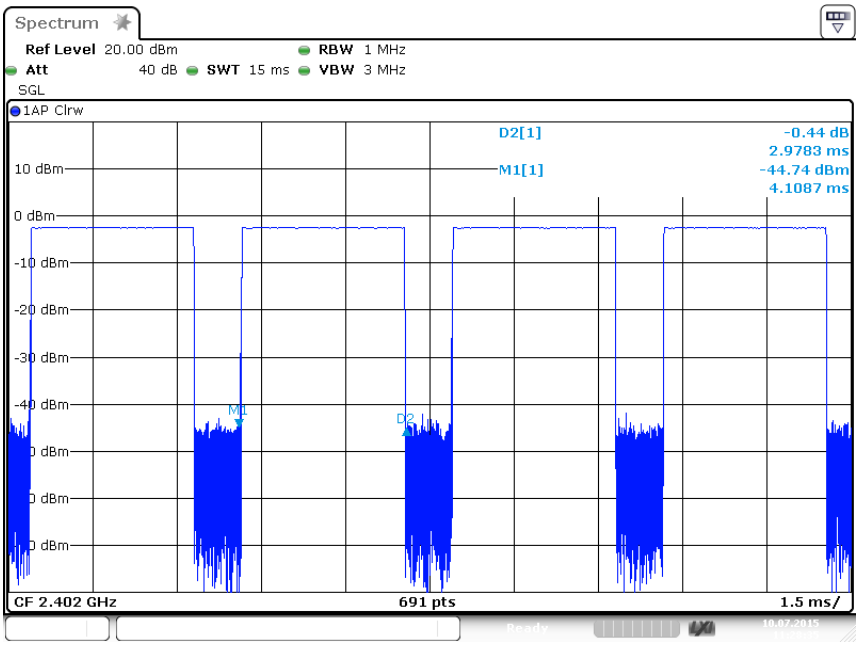
Date: 10.JUL.2015 11:17:04

Low channel: DH3



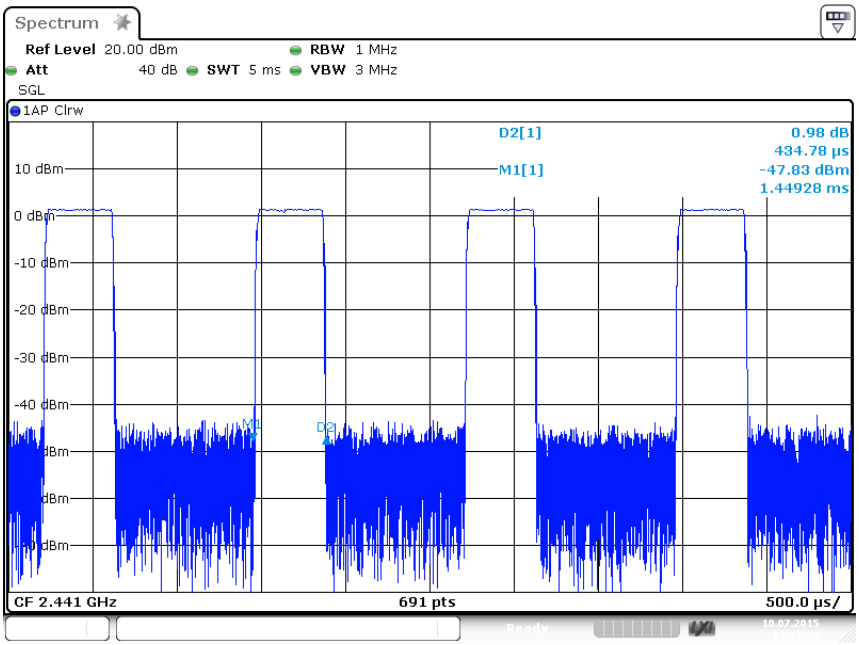
Date: 10.JUL.2015 11:17:48

Low channel: DH5



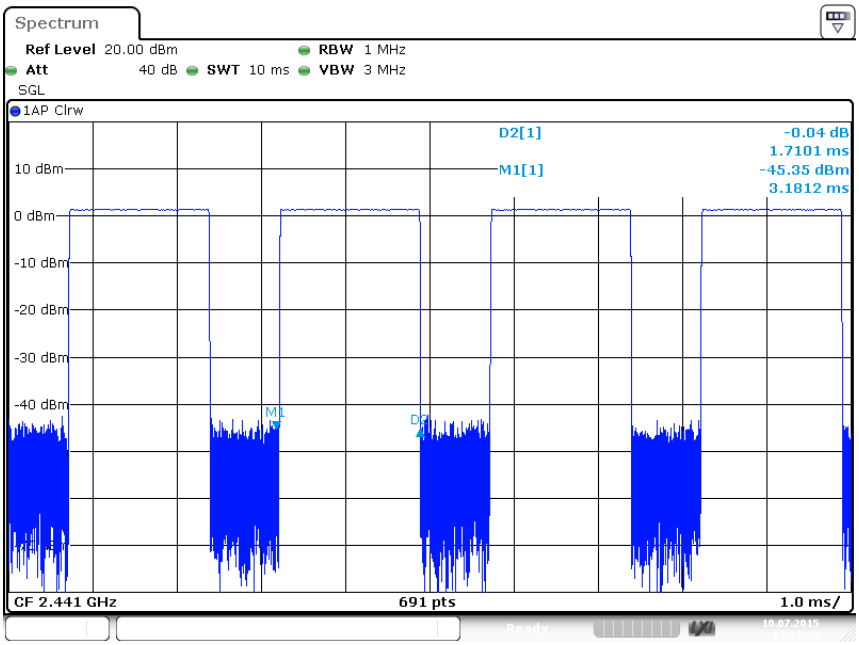
Date: 10.JUL.2015 11:28:35

Middle channel: DH1



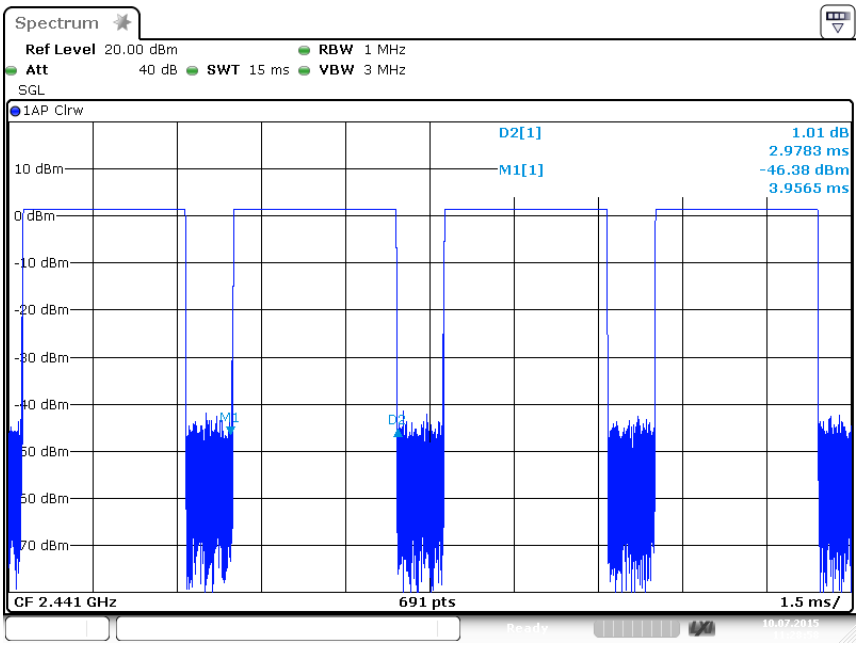
Date: 10.JUL.2015 11:16:42

Middle channel: DH3



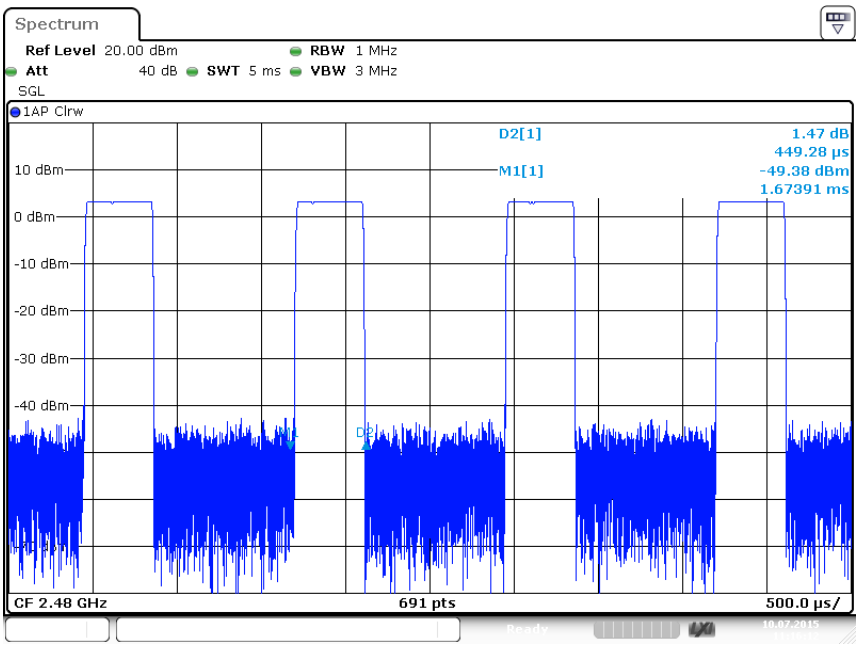
Date: 10.JUL.2015 11:19:16

Middle channel: DH5



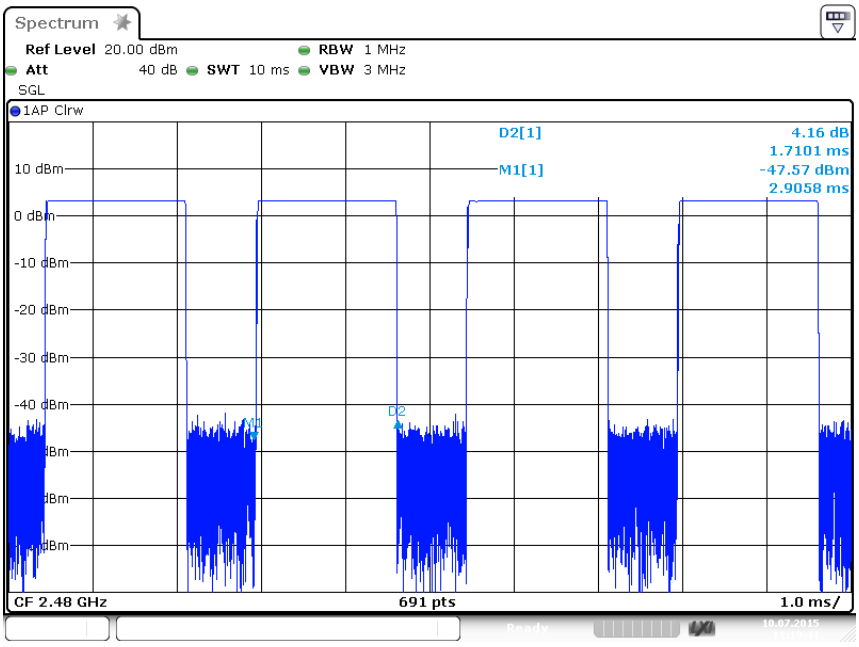
Date: 10.JUL.2015 11:28:58

High channel: DH1



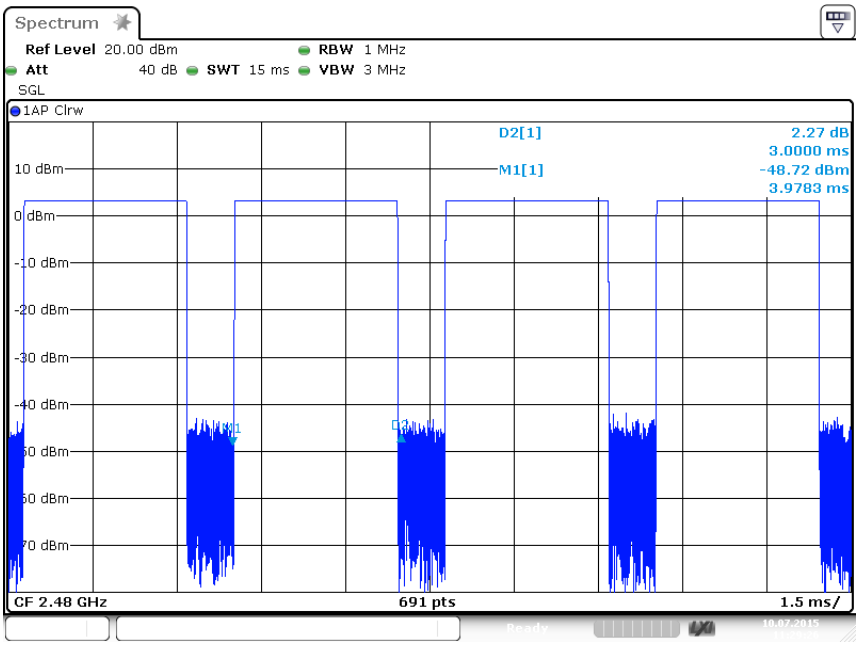
Date: 10.JUL.2015 11:16:13

High channel: DH3



Date: 10.JUL.2015 11:19:41

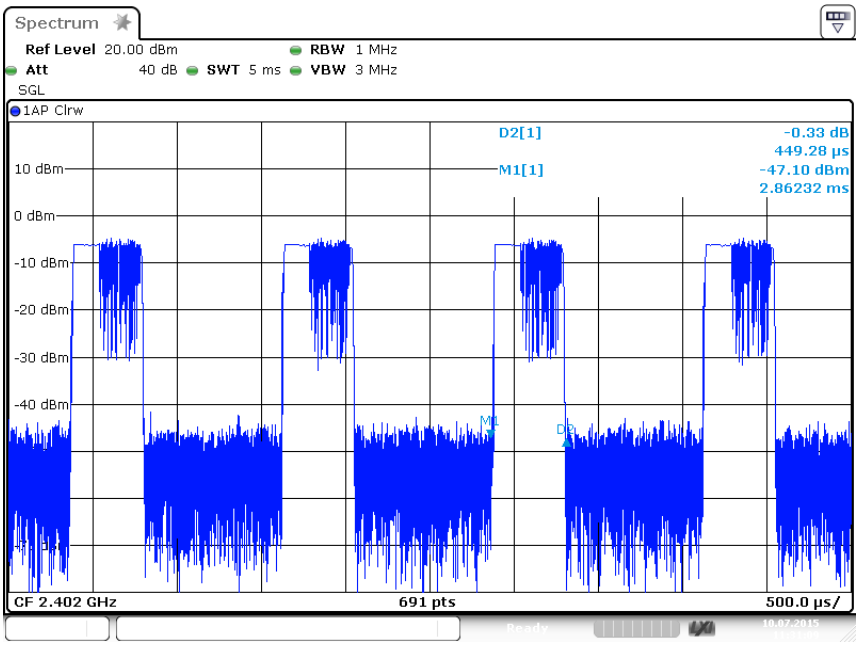
High channel: DH5



Date: 10.JUL.2015 11:29:26

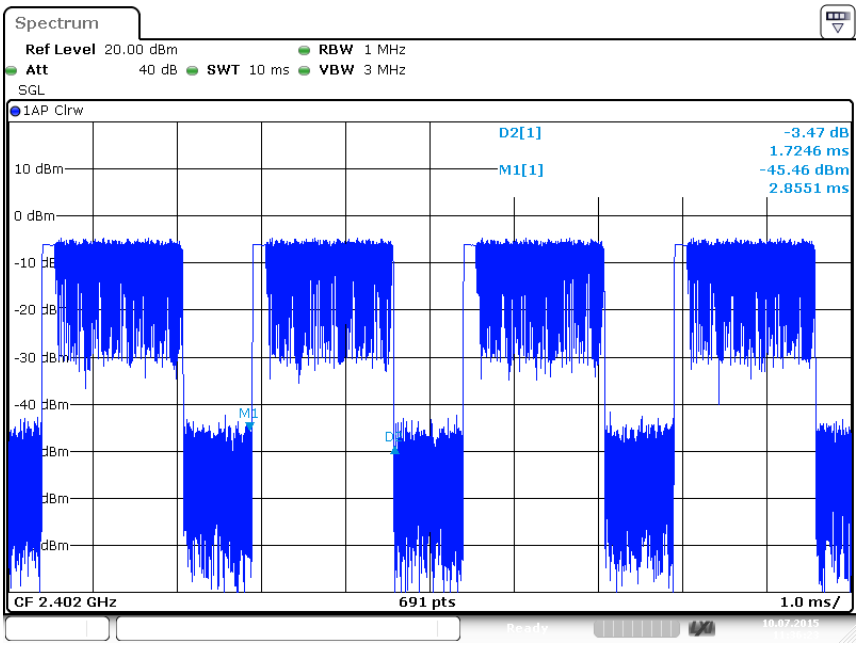
Test Plot of Time of Occupancy, EDR

Low channel: 3DH1



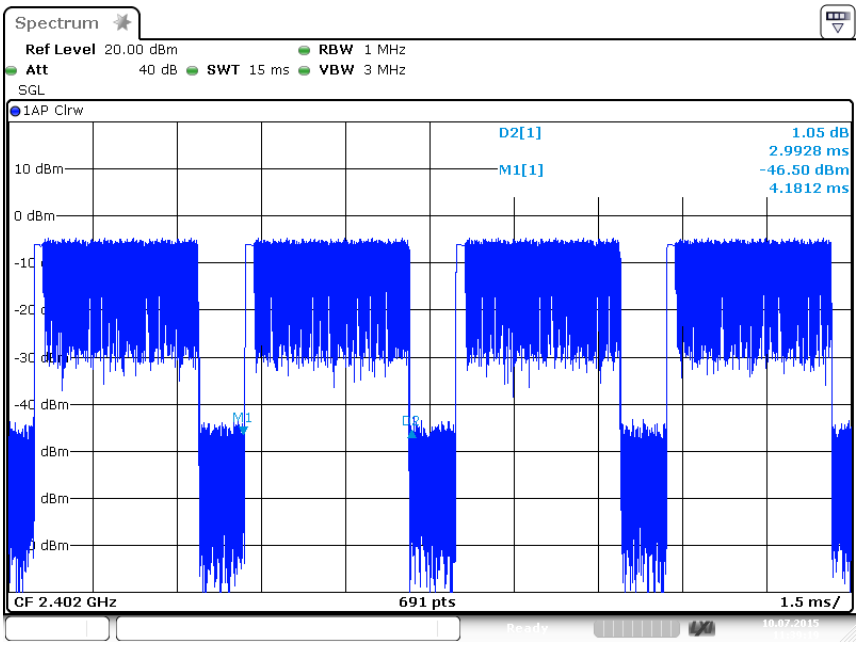
Date: 10.JUL.2015 11:31:09

Low channel: 3DH3



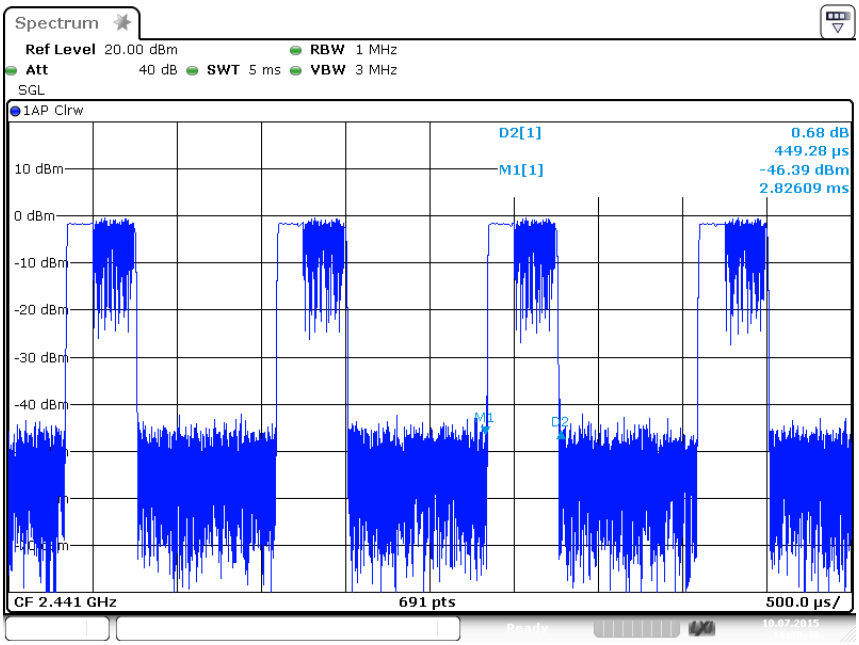
Date: 10.JUL.2015 11:36:24

Low channel: 3DH5



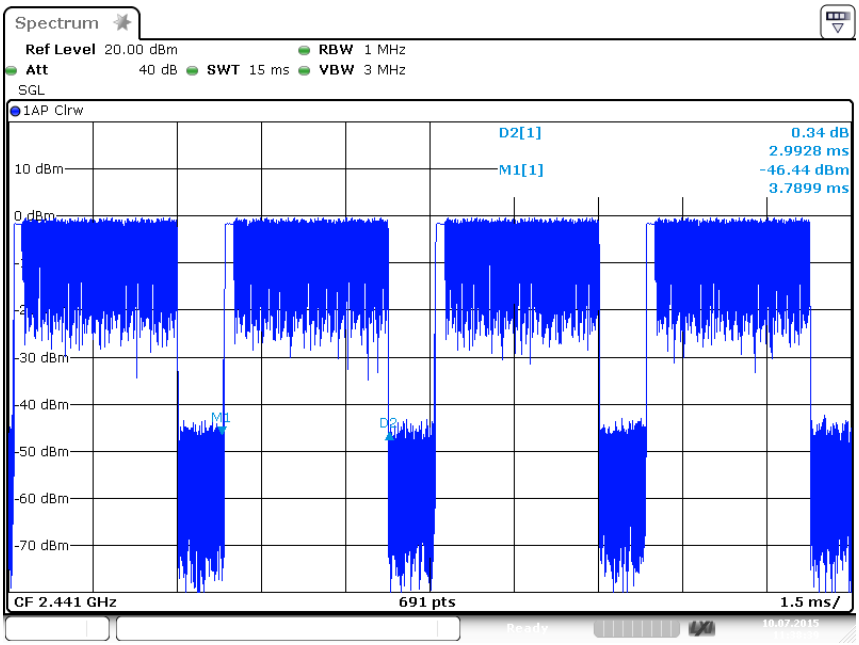
Date: 10.JUL.2015 11:39:19

Middle channel: 3DH1



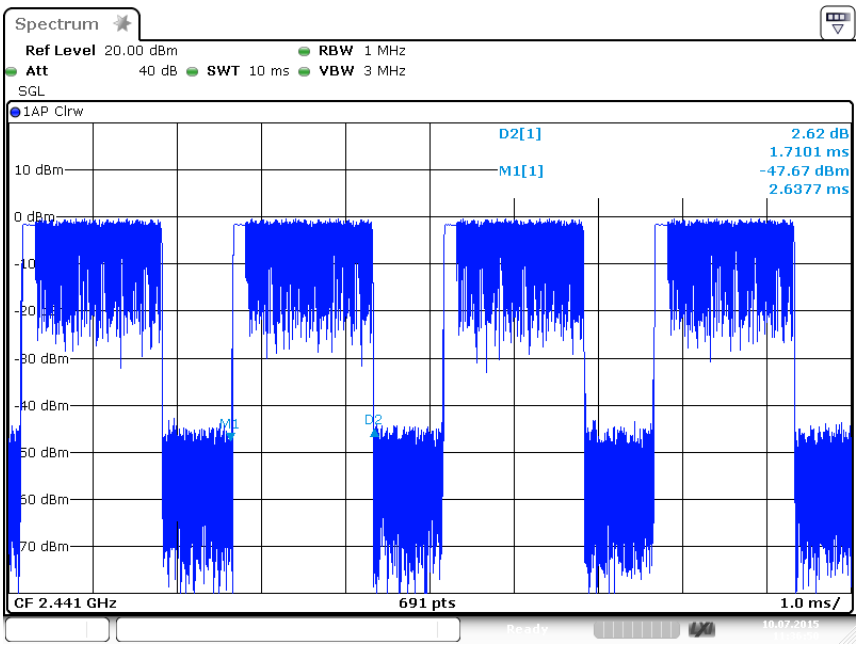
Date: 10.JUL.2015 11:30:49

Middle channel: 3DH3



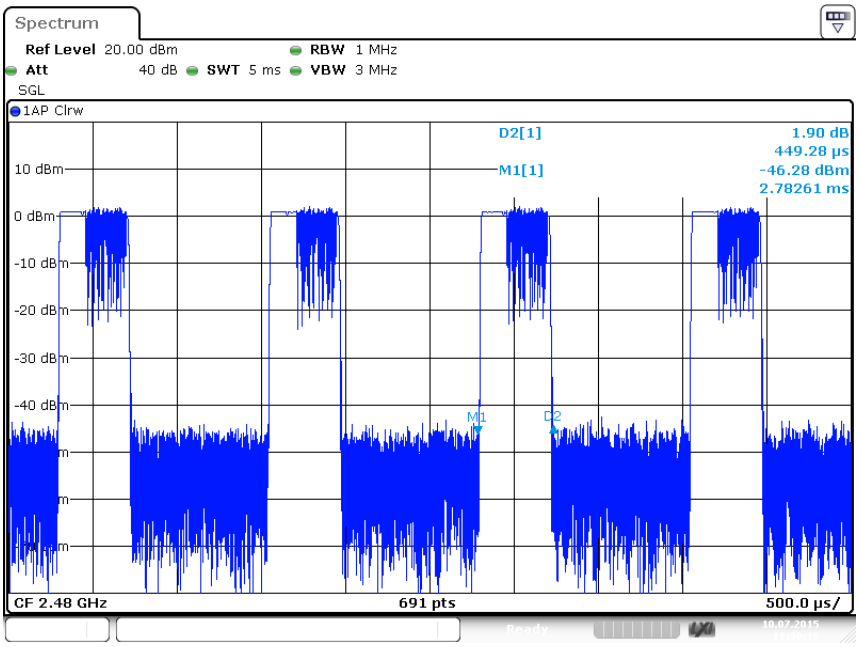
Date: 10.JUL.2015 11:38:39

Middle channel: 3DH5



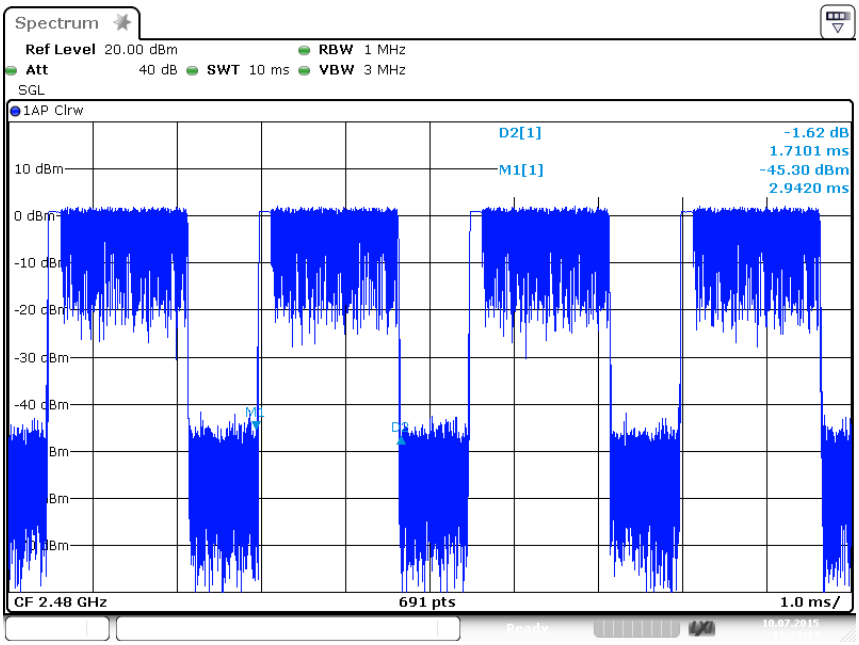
Date: 10.JUL.2015 11:36:51

High channel: 3DH1



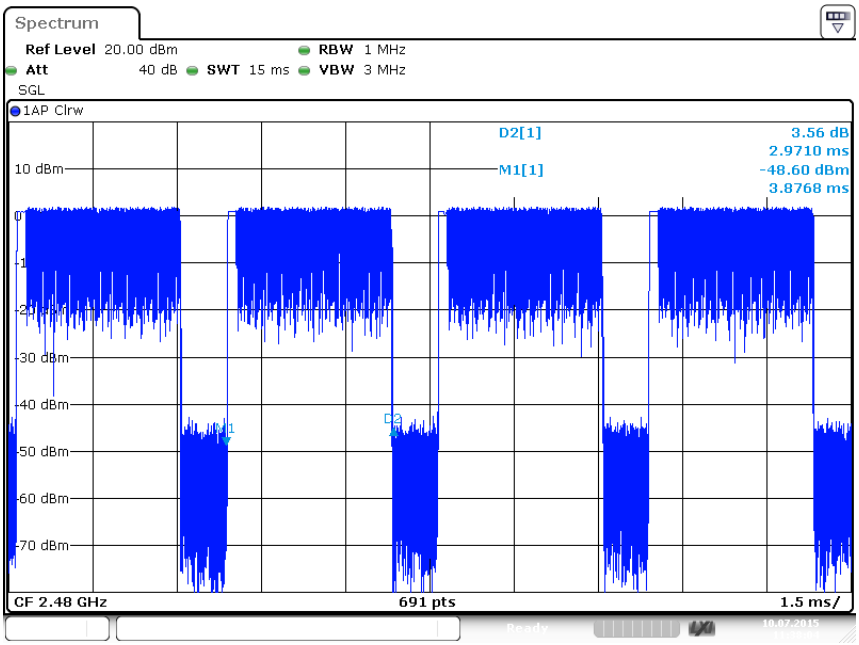
Date: 10.JUL.2015 11:30:10

High channel: 3DH3



Date: 10.JUL.2015 11:37:15

High channel: 3DH5



Date: 10.JUL.2015 11:38:04

5.1.12 Conducted Emissions

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.207(a) & FCC Part 15.107(a) RSS-Gen Clause 8.8 & ICES-003
Basic standard	:	ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a) & FCC Part 15.107(a) RSS-Gen Table 3 & ICES-003 Table 2
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	03.07.2015
Input voltage	:	AC 120V, 60Hz
Operation mode	:	C, D, E, F, G
Earthing	:	Not connected
Ambient temperature	:	25℃
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix 1.

5.1.13 Radiated Emission

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.109(a)
		ICES-003
Basic standard	:	ANSI C63.4: 2014
Frequency range	:	30 - 6000MHz
Classification	:	Class B
Limits	:	FCC Part 15.109(a)
		ICES-003 Table 5 & Table 7
Kind of test site	:	3m Semi-anechoic chamber

Test Setup

Date of testing	:	31.07.2015
Input voltage	:	AC 120V, 60Hz
Operation mode	:	D, E, F, G
Earthing	:	Not connected
Ambient temperature	:	23℃
Relative humidity	:	48%
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix 1.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT: **Pass**

Test Specification

Test standard : FCC KDB Publication 447498 v05r02
RSS-102 Issue 5 March 2015

Measurement Record:

The minimum distance for the EUT is less than 5mm.

Since maximum peak output power of the transmitter is 2.47 mW <10 mW.

Hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01 General RF Exposure Guidance v05r02.

The maximum peak output power of the transmitter is 2.47 mW (3.92 dBm), which is far below the SAR exclusion threshold level 4 mW≈6.02 dBm.
Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 5.

7 Photographs of the Test Set-Up

Photograph 1: Set-up for Radiated Spurious Emissions (9kHz - 30MHz)

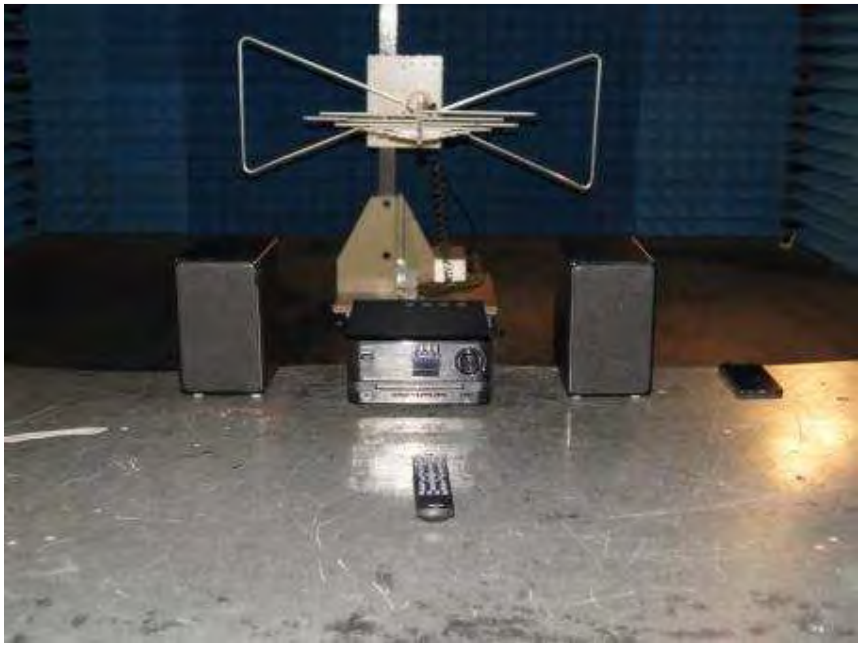
Photograph 2: Set-up for Radiated Spurious Emissions (30MHz-1GHz)

Photograph 3: Set-up for Radiated Spurious Emissions (1GHz ~ 18GHz)

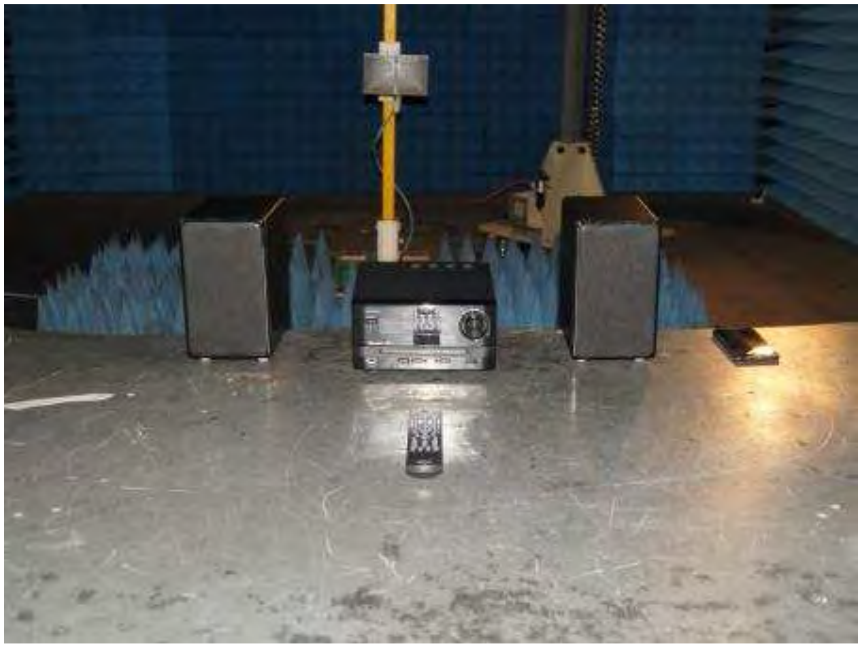
Photograph 4: Set-up for Radiated Spurious Emissions (18GHz ~ 26GHz)

Photograph 5: Set-up for Conducted Emissions

Photograph 6: Set-up for Radiated Emission (Below 1GHz)



Photograph 7: Set-up for Radiated Emission (Above 1GHz)



8 List of Tables

9 List of Photographs

List of Figures

Figure 1: Test figure of Radiated Spurious Emissions (9kHz – 30MHz), BDR (Low)

ACCURATE TECHNOLOGY CO.,LTD

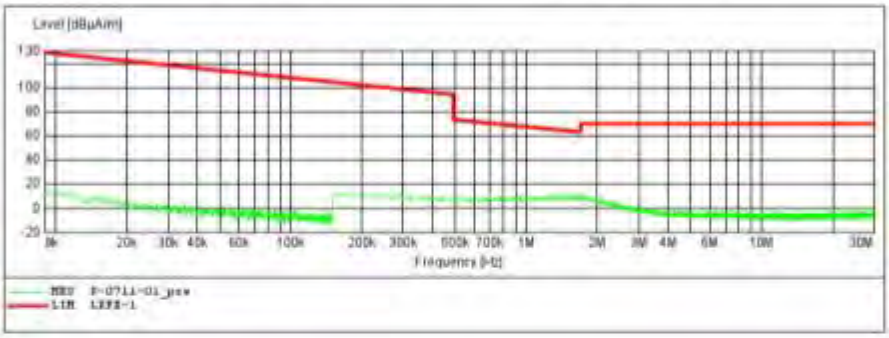
FCC Class B 3m Radiated

EUT:	CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer:	DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition:	TX 2402MHz
Test Site:	3# Chamber
Operator:	LAN
Test Specification:	AC 120V/60Hz
Comment:	X
Start of Test:	2015-7-11 /

SCAN TABLE: "LFRE Fin"

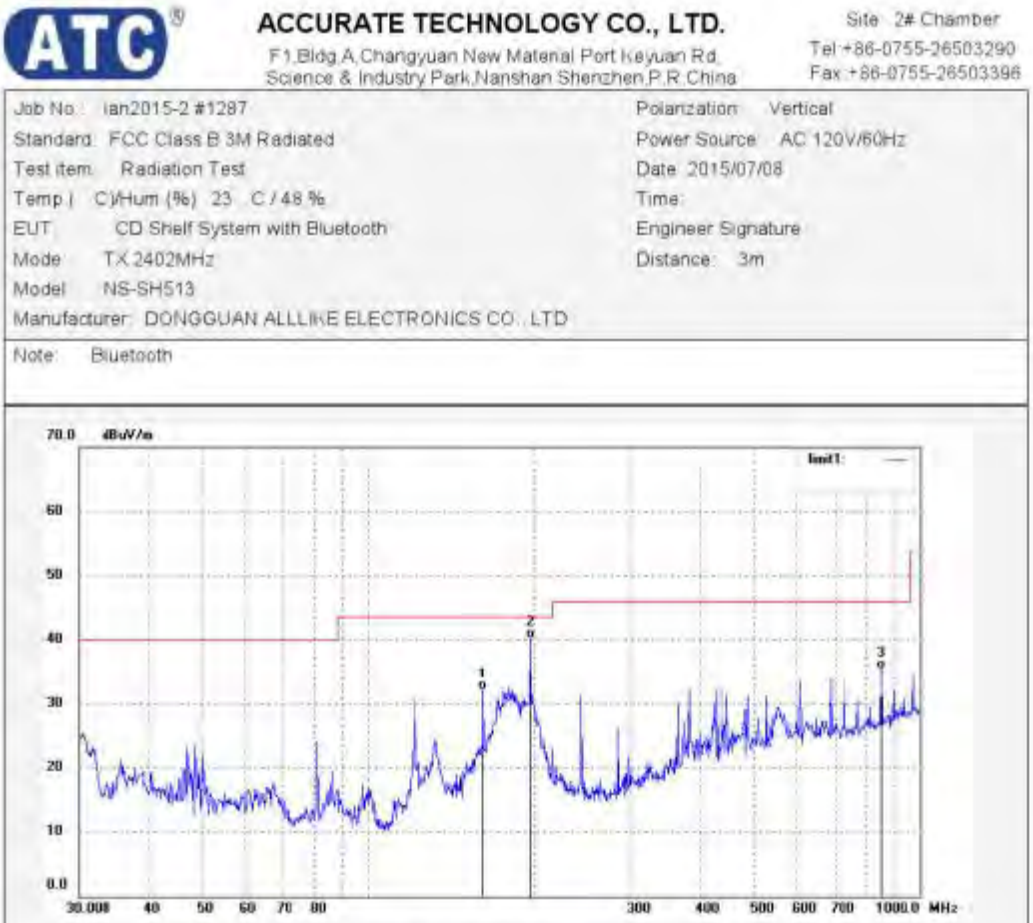
Short Description: _SUB_STD_VTERMC 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	151BM
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	151BM



Page 1/1 2015-7-11 P-0711-01

Figure 2: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), BDR (Low)



ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1287
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2402MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2015/07/08
Time:
Engineer Signature:
Distance: 3m

Note: Bluetooth

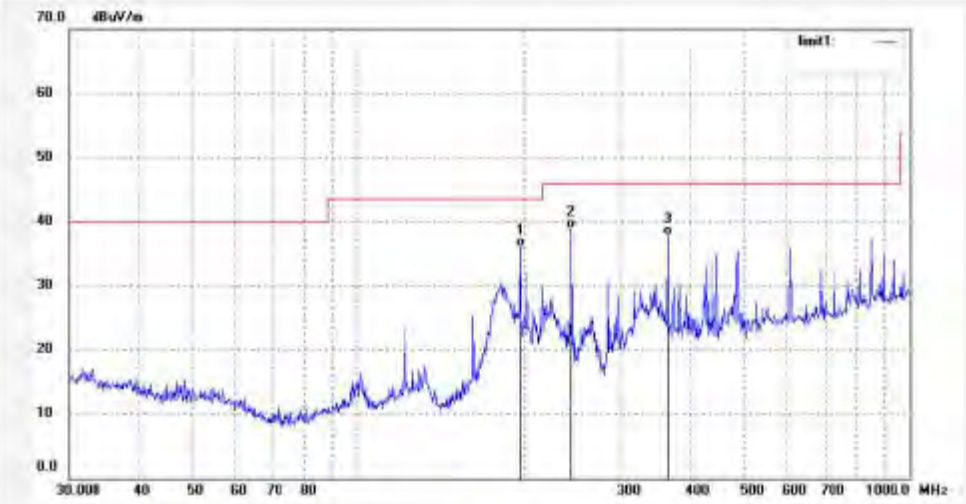
No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	162.0414	46.64	-14.52	32.12	43.50	-11.38	QP			
2	196.5098	52.57	-12.47	40.10	43.50	-3.40	QP			
3	851.0353	34.66	0.72	35.38	46.00	-10.62	QP			

ACCURATE TECHNOLOGY CO., LTD.
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

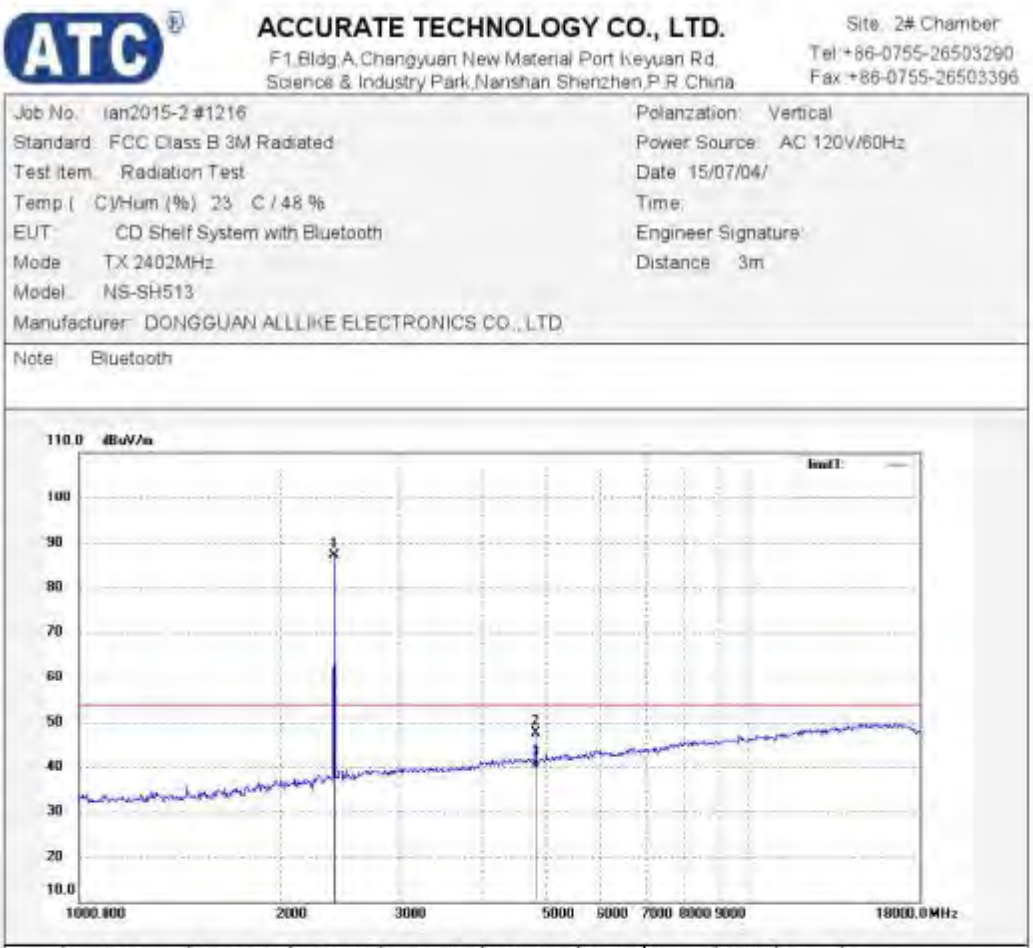
Job No: Ian2015-2 #1288	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/07/08
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

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	196.5098	48.69	-12.47	36.22	43.50	-7.28	QP			
2	243.3771	49.80	-10.82	38.98	46.00	-7.02	QP			
3	364.2595	45.39	-7.57	37.82	46.00	-8.18	QP			

Figure 3: Test figure of Radiated Spurious Emissions (1GHz –25GHz), BDR (Low)



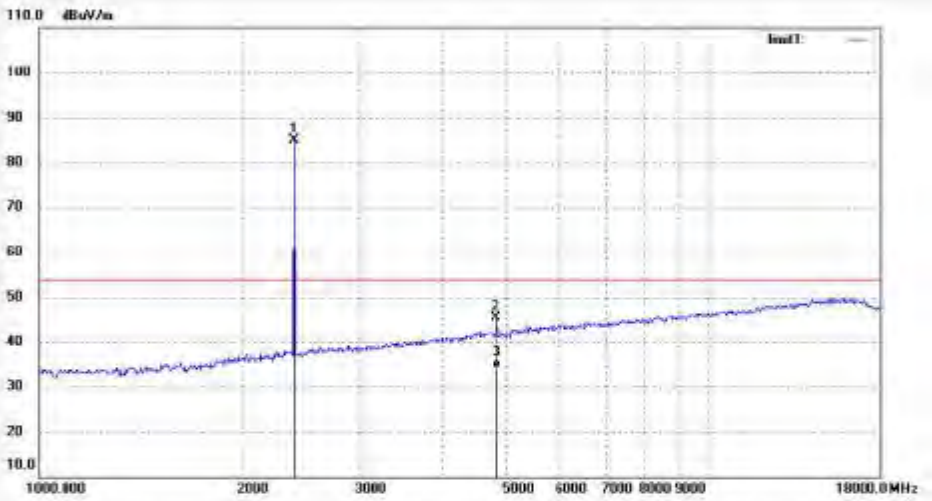
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	94.68	-7.45	87.23	/	/	peak			
2	4804.023	46.02	-0.30	47.72	74.00	-26.28	peak			
3	4804.023	40.01	-0.30	39.71	54.00	-14.29	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1217
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2402MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

Note: Bluetooth

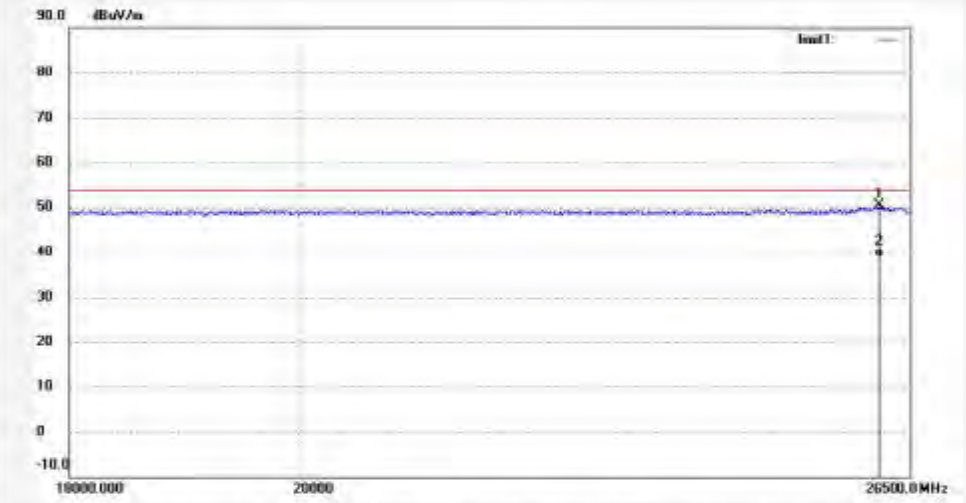


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	92.37	-7.45	84.92	/	/	peak			
2	4804.022	45.74	-0.30	45.44	74.00	-28.56	peak			
3	4804.022	34.52	-0.30	34.22	54.00	-19.78	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1268	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/04/
Temp.(C)/Hum.(%): 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD	
Note: Bluetooth	



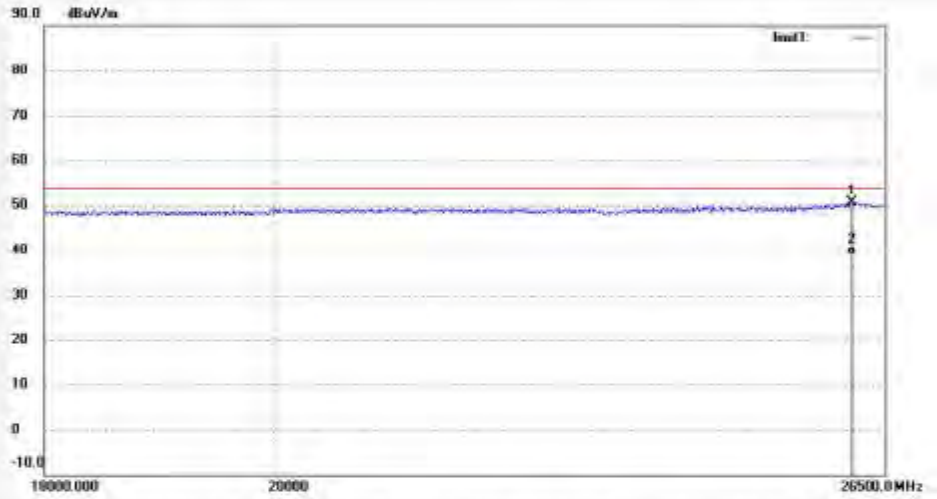
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26123.470	33.98	16.50	50.48	74.00	-23.52	peak			
2	26123.470	22.28	16.50	38.78	54.00	-15.22	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1269	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/04/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

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	26103.270	34.14	16.50	50.64	74.00	-23.36	peak			
2	26103.270	22.45	16.50	38.95	54.00	-15.05	AVG			

Figure 4: Test figure of Radiated Spurious Emissions (9kHz – 30MHz), BDR (Mid)

ACCURATE TECHNOLOGY CO.,LTD

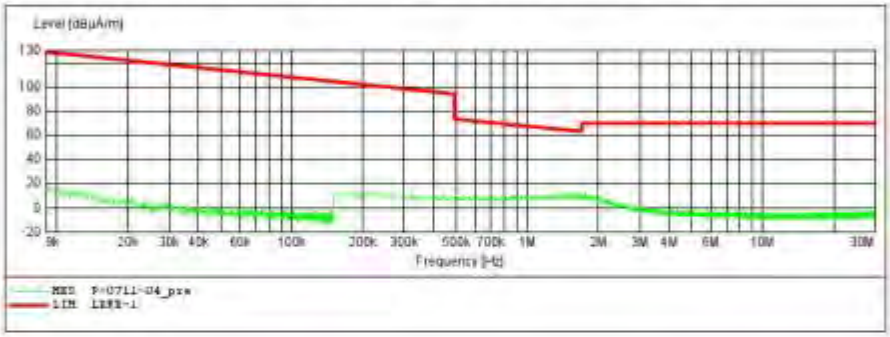
FCC Class B 3m Radiated

EUT:	CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer:	DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition:	TX 2441MHz
Test Site:	2# Chamber
Operator:	LAN
Test Specification:	AC 120V/60Hz
Comment:	X
Start of Test:	2015-7-11 /

SCAN TABLE: "LFRE Fin"

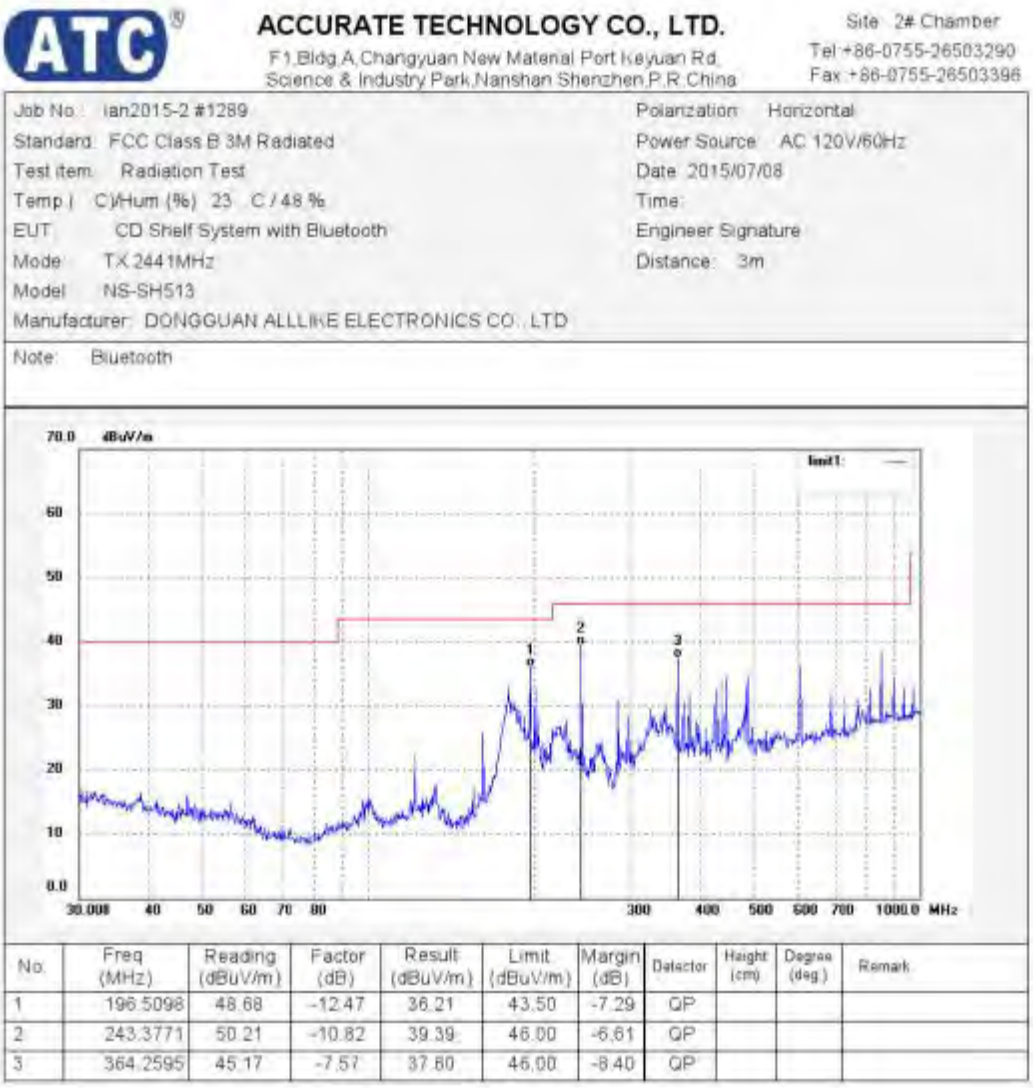
Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	151@M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	151@M



Page 1/1 2015-7-11 P-0711-04

Figure 5: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), BDR (Mid)



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	196.5098	48.68	-12.47	36.21	43.50	-7.29	QP			
2	243.3771	50.21	-10.82	39.39	46.00	-6.61	QP			
3	364.2595	45.17	-7.57	37.60	46.00	-8.40	QP			

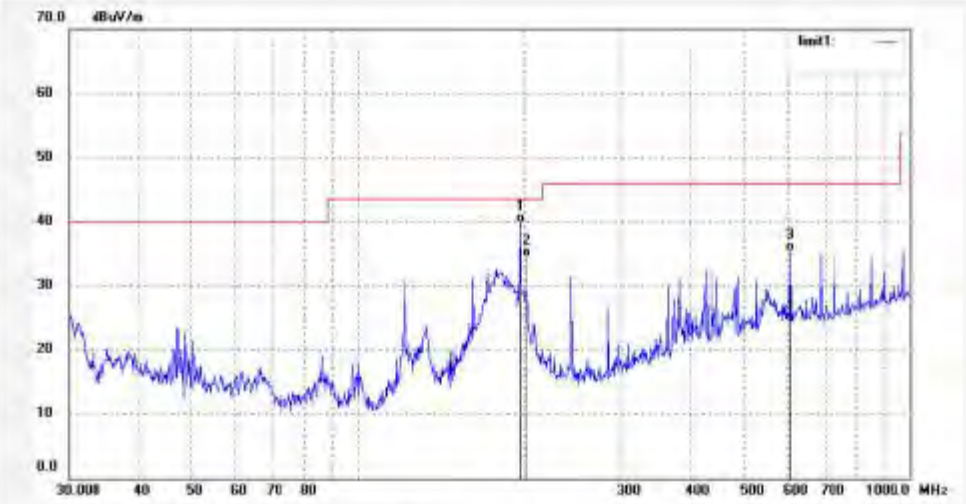
ACCURATE TECHNOLOGY CO., LTD.

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: Ian2015-2 #1290	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/07/08
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2441MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

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	196.5098	52.21	-12.47	39.74	43.50	-3.76	QP			
2	202.8103	46.91	-12.35	34.56	43.50	-8.94	QP			
3	607.7866	38.32	-2.84	35.48	46.00	-10.52	QP			

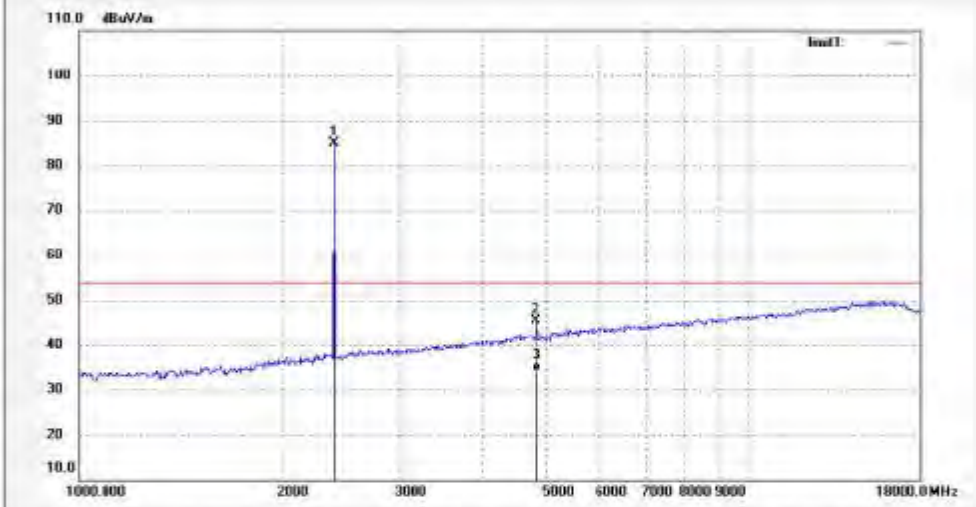
Figure 6: Test figure of Radiated Spurious Emissions (1GHz –25GHz), BDR (Mid)

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1217
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2402MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD

Polanzation: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

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	92.37	-7.45	84.92	/	/	peak			
2	4804.022	45.74	-0.30	45.44	74.00	-28.56	peak			
3	4804.022	34.52	-0.30	34.22	54.00	-19.78	AVG			

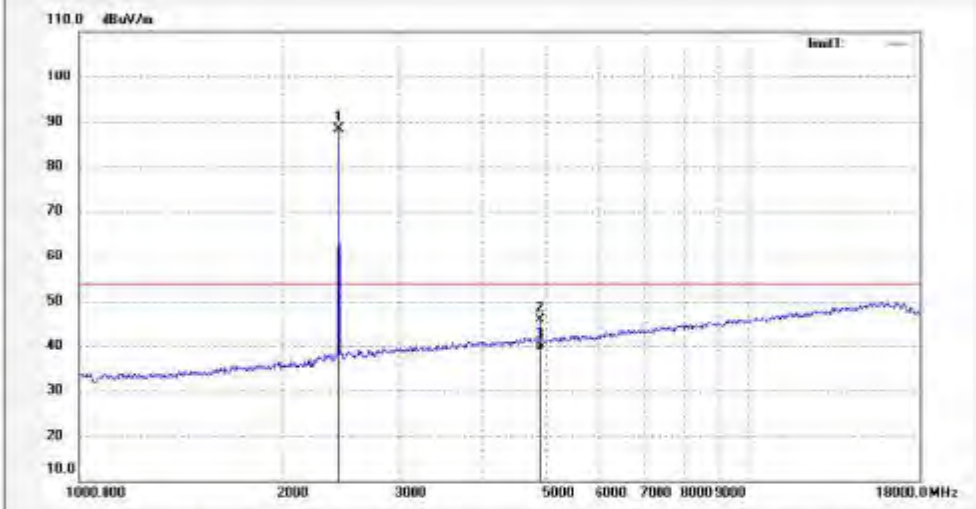
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1220
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2441MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

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	95.71	-7.35	88.36	/	/	peak			
2	4882.025	45.67	0.14	45.81	74.00	-28.19	peak			
3	4882.025	38.63	0.14	38.77	54.00	-15.23	AVG			

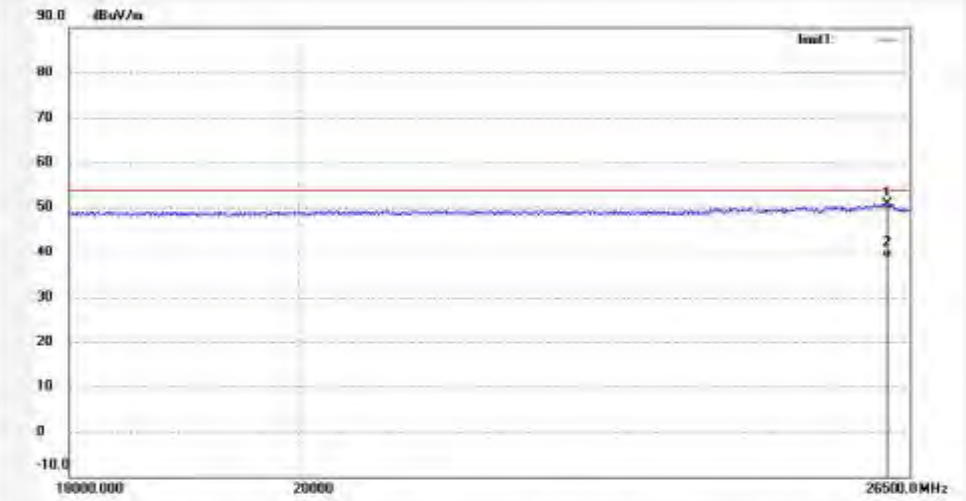
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port,Keyuan Rd.
Science & Industry Park,Nanshan,Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1270
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2441MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

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	26224.704	34.24	16.50	50.74	74.00	-23.26	peak			
2	26224.704	22.17	16.50	38.67	54.00	-15.33	AVG			

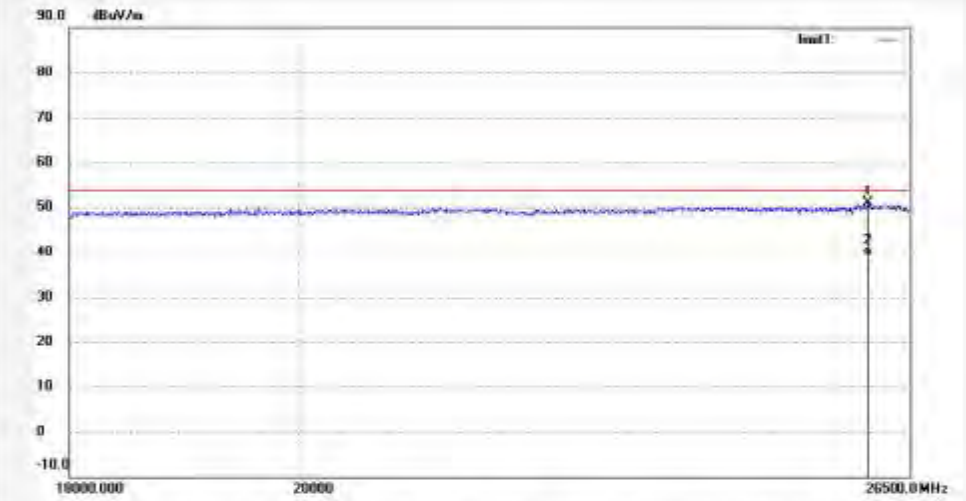
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port,Keyuan Rd.
Science & Industry Park,Nanshan,Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1271
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2441MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

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	25992.449	34.46	16.50	50.96	74.00	-23.04	peak			
2	25992.449	22.63	16.50	39.13	54.00	-14.87	AVG			

Figure 7: Test figure of Radiated Spurious Emissions (9kHz – 30MHz), BDR (High)

ACCURATE TECHNOLOGY CO.,LTD

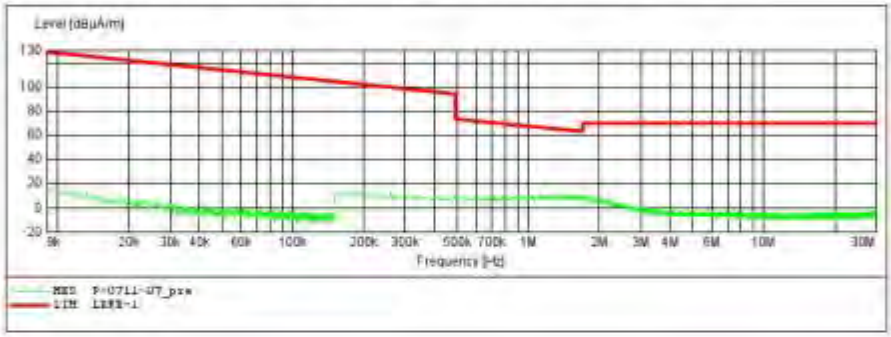
FCC Class B 3m Radiated

```
EUT:                    CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer:           DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition:    TX 2480MHz
Test Site:              2# Chamber
Operator:               LAN
Test Specification:     AC 120V/60Hz
Comment:                X
Start of Test:          2015-7-11 /
```

SCAN TABLE: "LFRE Fin"

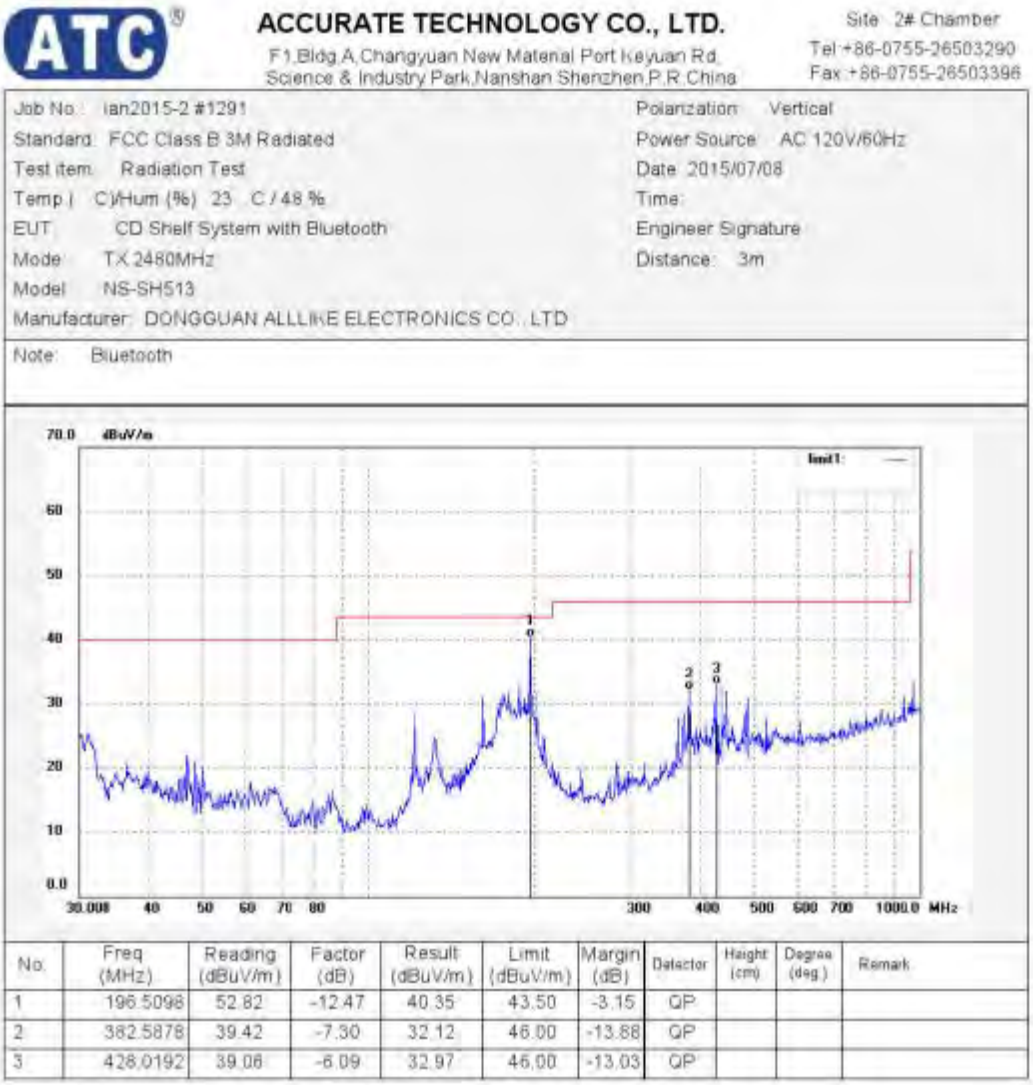
Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	151@M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	151@M



Page 1/1 2015-7-11 9-0711-07

Figure 8: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), BDR (High)



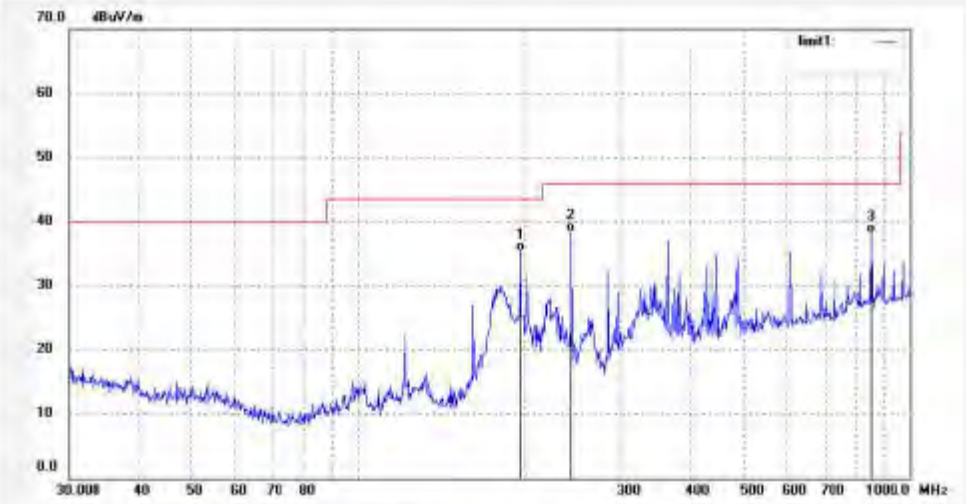
No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	196.5098	52.82	-12.47	40.35	43.50	-3.15	QP			
2	382.5878	39.42	-7.30	32.12	46.00	-13.88	QP			
3	428.0192	39.06	-6.09	32.97	46.00	-13.03	QP			

ACCURATE TECHNOLOGY CO., LTD.
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

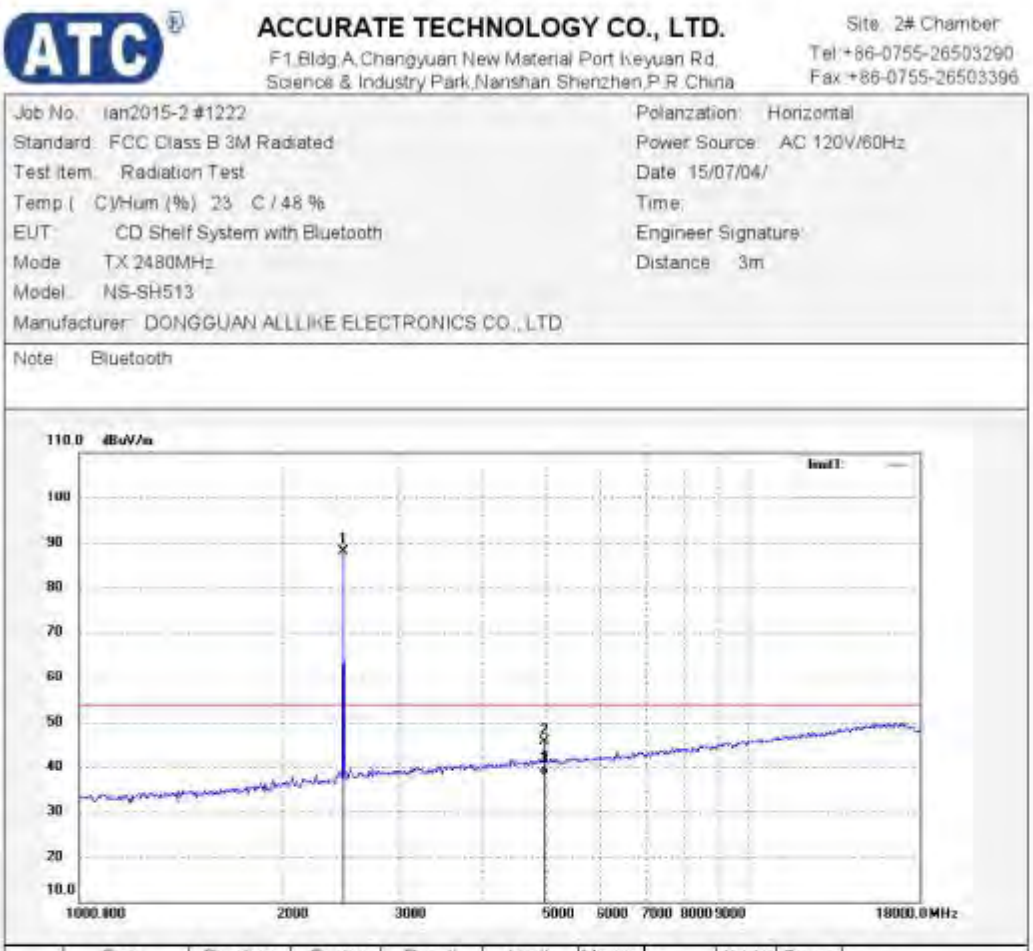
Job No: Ian2015-2 #1292	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/07/08
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

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	196.5098	47.83	-12.47	35.36	43.50	-8.14	QP			
2	243.3771	49.19	-10.82	38.37	46.00	-7.63	QP			
3	851.0353	37.52	0.72	38.24	46.00	-7.76	QP			

Figure 9: Test figure of Radiated Spurious Emissions (1GHz –25GHz), BDR (High)



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	95.57	-7.37	88.20	/	/	peak			
2	4960.027	45.08	0.52	45.60	74.00	-28.40	peak			
3	4960.027	37.65	0.52	38.17	54.00	-15.83	AVG			

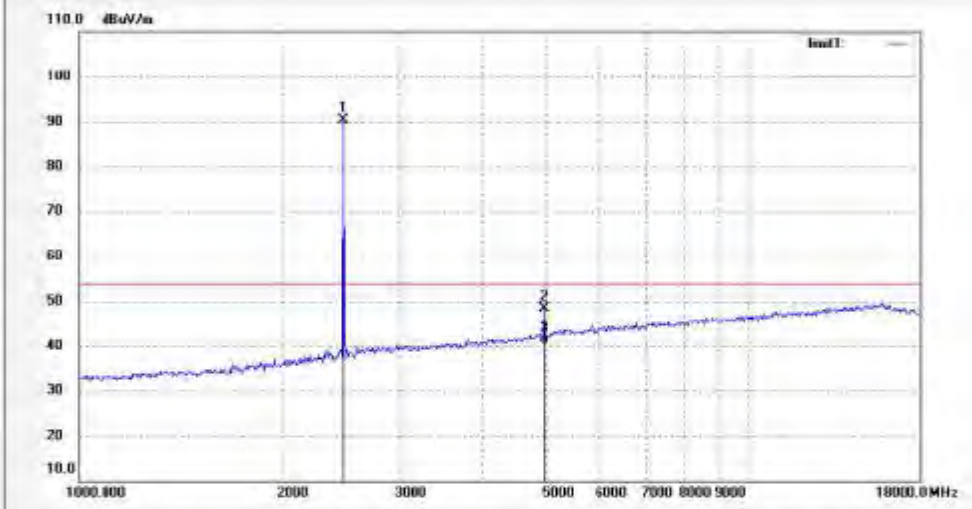
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port,Keyuan Rd.
Science & Industry Park,Nanshan,Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1223
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2480MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

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	97.71	-7.37	90.34	/	/	peak			
2	4960.025	47.84	0.52	48.36	74.00	-25.64	peak			
3	4960.025	39.90	0.52	40.42	54.00	-13.58	AVG			

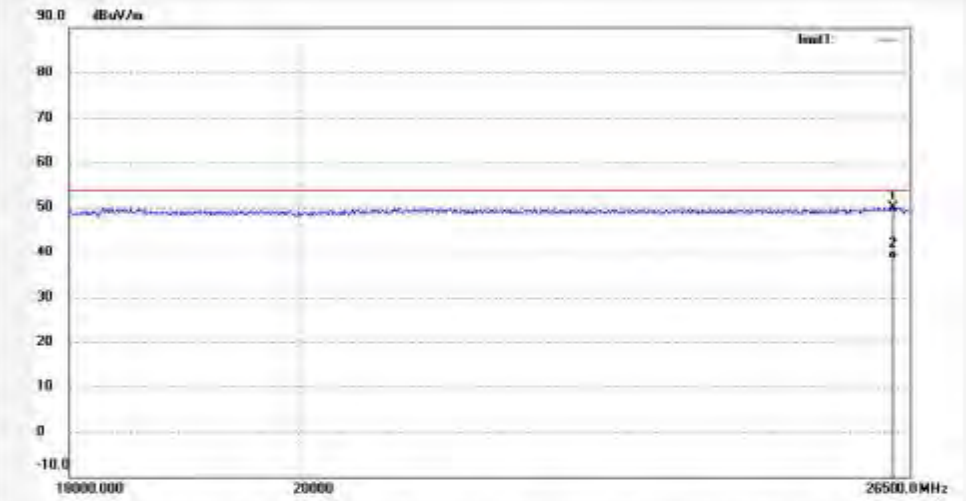
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port,Keyuan Rd.
Science & Industry Park,Nanshan,Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1272
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2480MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

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	26285.633	33.47	16.50	49.97	74.00	-24.03	peak			
2	26285.633	21.79	16.50	38.29	54.00	-15.71	AVG			

ATC®

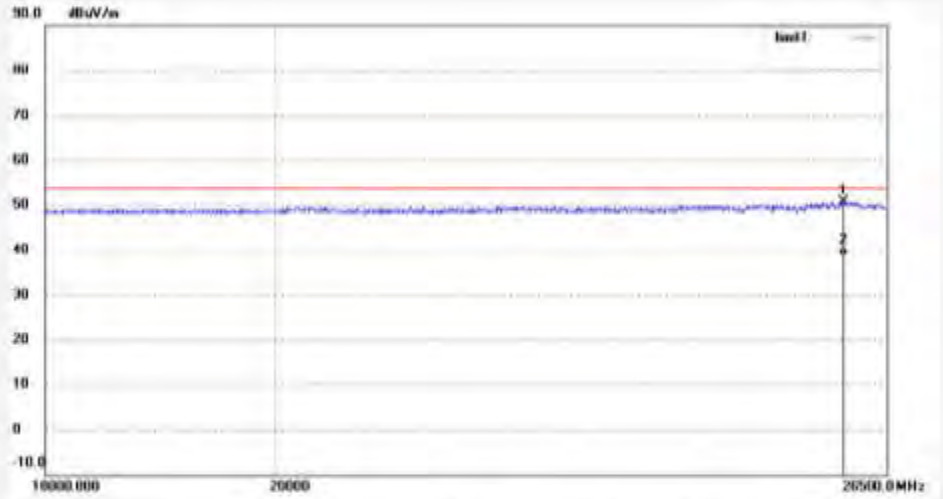
ACCURATE TECHNOLOGY CO., LTD.

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.: Ian2015-2 #1273	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/04/
Temp (C)/Hum (%): 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

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	25972.351	34.18	16.50	50.68	74.00	-23.32	peak			
2	25972.351	22.23	16.50	38.73	54.00	-15.27	AVG			

Page: 1 http://www.atc-lab.com

Note: Pre-test the EUT in continuous transmitting mode at the low (2402 MHz), middle (2441 MHz) and high (2480 MHz) channel with different data packets. Compliance test in continuous transmitting mode with BDR mode (DH5) was found as the worst case.

Figure 10: Test figure of Radiated Spurious Emissions (9kHz – 30MHz), Low Energy (Low)

ACCURATE TECHNOLOGY CO., LTD

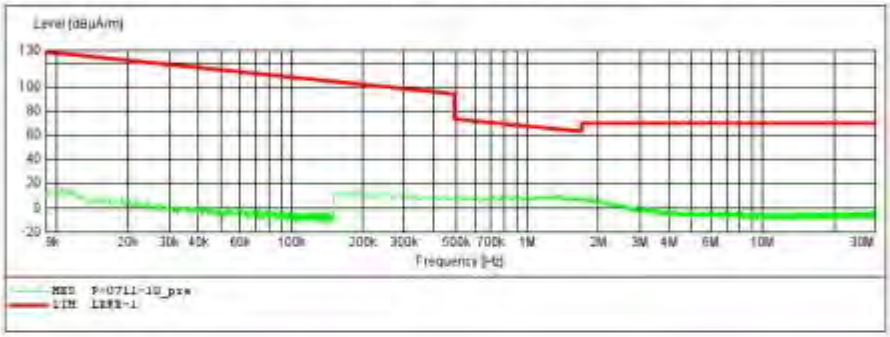
FCC Class B 3m Radiated

```
EUT:                    CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer:           DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition:    TX 2402MHz
Test Site:              2# Chamber
Operator:               LAN
Test Specification:     AC 120V/60Hz
Comment:                X
Start of Test:          2015-7-11 /
```

SCAN TABLE: "LFRE Fin"

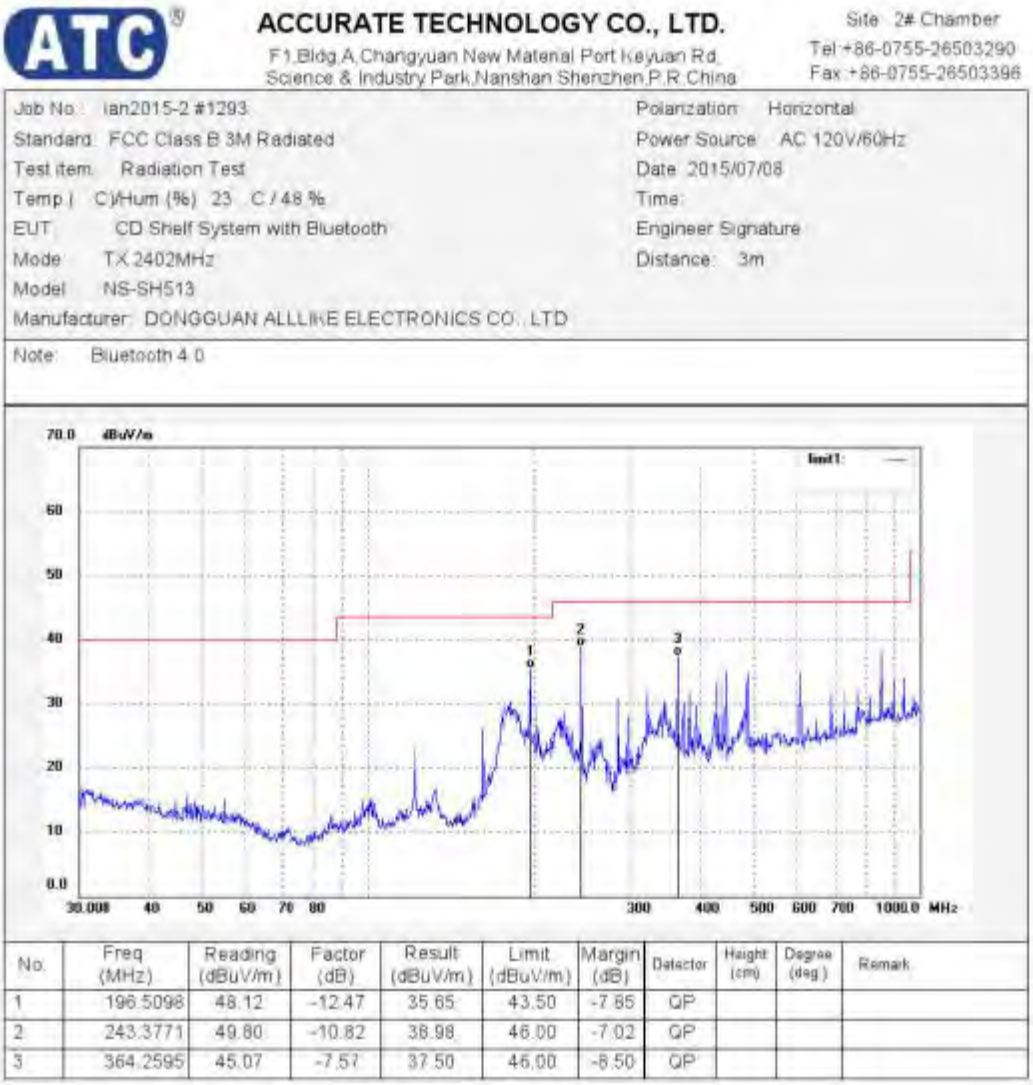
Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	151@M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	151@M



Page 1/1 2015-7-11 P-0711-10

Figure 11: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), Low Energy (Low)

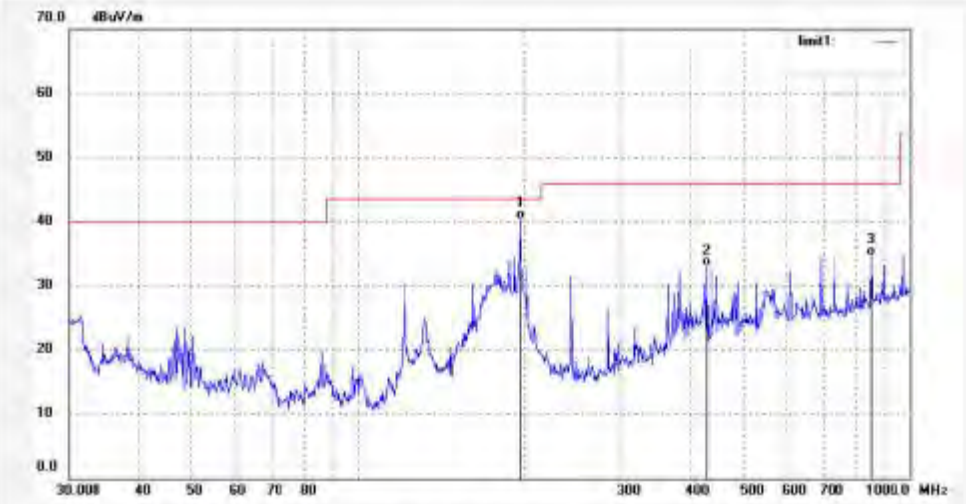


No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	196.5098	48.12	-12.47	35.65	43.50	-7.85	QP			
2	243.3771	49.80	-10.82	38.98	46.00	-7.02	QP			
3	364.2595	45.07	-7.57	37.50	46.00	-8.50	QP			

ACCURATE TECHNOLOGY CO., LTD.
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: Ian2015-2 #1294	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/07/08
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

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	196.5098	52.81	-12.47	40.34	43.50	-3.16	QP			
2	428.0192	39.01	-6.09	32.92	46.00	-13.08	QP			
3	851.0353	33.98	0.72	34.70	46.00	-11.30	QP			

Figure 12: Test figure of Radiated Spurious Emissions (1GHz –25GHz), Low Energy (Low)

ATC

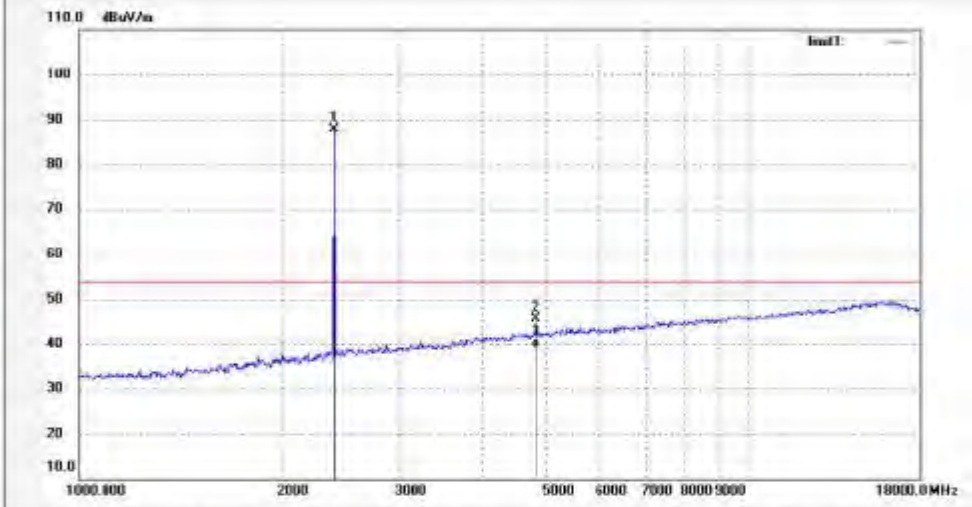
ACCURATE TECHNOLOGY CO., LTD.

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.: Ian2015-2 #1226	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/04/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD	

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	95.36	-7.45	87.91	/	/	peak			
2	4804.019	46.01	-0.30	45.71	74.00	-28.29	peak			
3	4804.019	39.52	-0.30	39.22	54.00	-14.78	AVG			

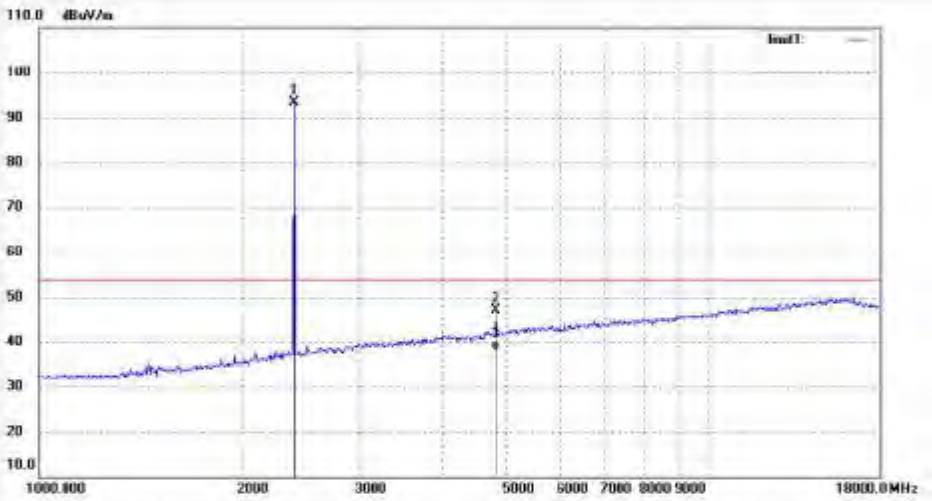
ACCURATE TECHNOLOGY CO., LTD.

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.: Ian2015-2 #1227	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/04/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD	

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	100.64	-7.45	93.39	/	/	peak			
2	4804.024	47.50	-0.30	47.20	74.00	-26.80	peak			
3	4804.024	38.48	-0.30	38.18	54.00	-15.82	AVG			

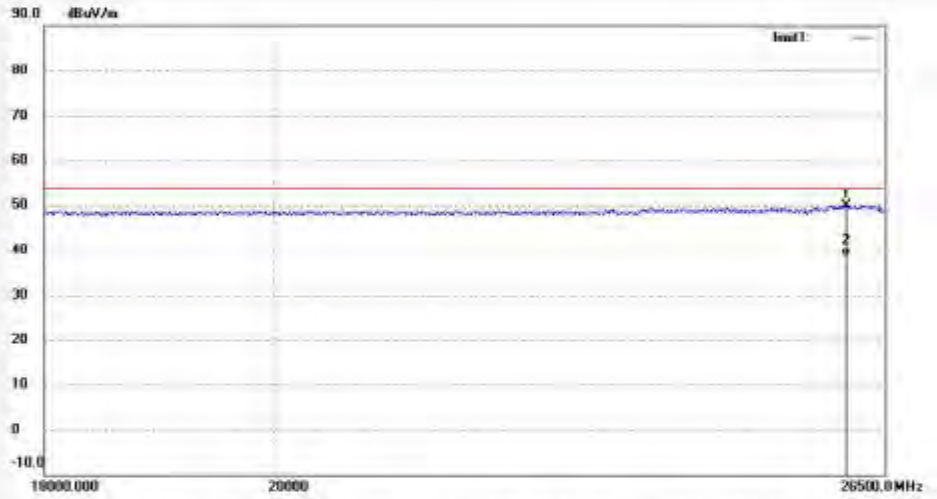
ACCURATE TECHNOLOGY CO., LTD.

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.: Ian2015-2 #1274	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/04/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD	

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	26032.693	33.46	16.50	49.96	74.00	-24.04	peak			
2	26032.693	22.08	16.50	38.58	54.00	-15.42	AVG			

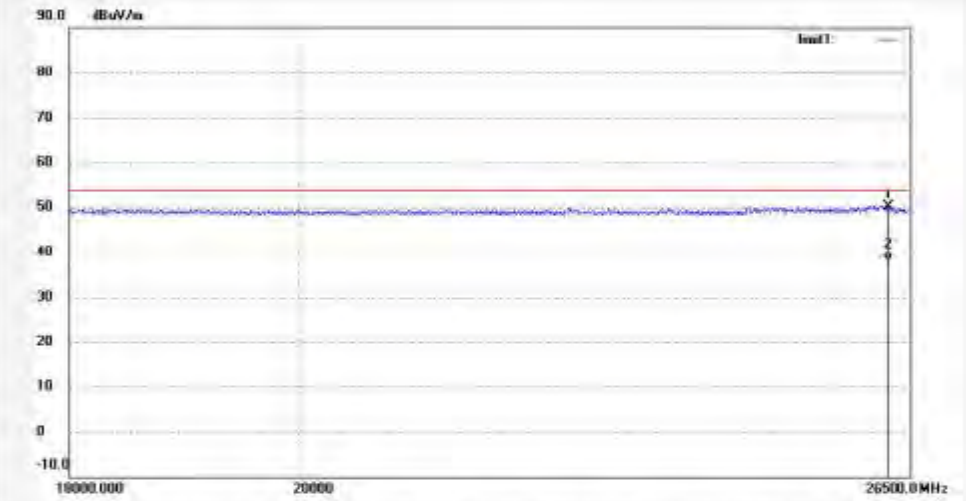
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port,Keyuan Rd.
Science & Industry Park,Nanshan,Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1275
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2402MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

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	26234.849	33.73	16.50	50.23	74.00	-23.77	peak			
2	26234.849	21.75	16.50	38.25	54.00	-15.75	AVG			

Figure 13: Test figure of Radiated Spurious Emissions (9kHz – 30MHz), Low Energy (Mid)

ACCURATE TECHNOLOGY CO., LTD

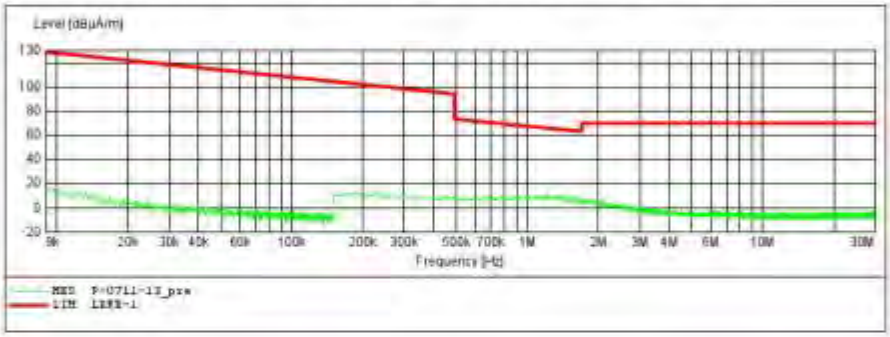
FCC Class B 3m Radiated

EUT:	CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer:	DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition:	TX 2440MHz
Test Site:	2# Chamber
Operator:	LAN
Test Specification:	AC 120V/60Hz
Comment:	X
Start of Test:	2015-7-11 /

SCAN TABLE: "LFRE Fin"

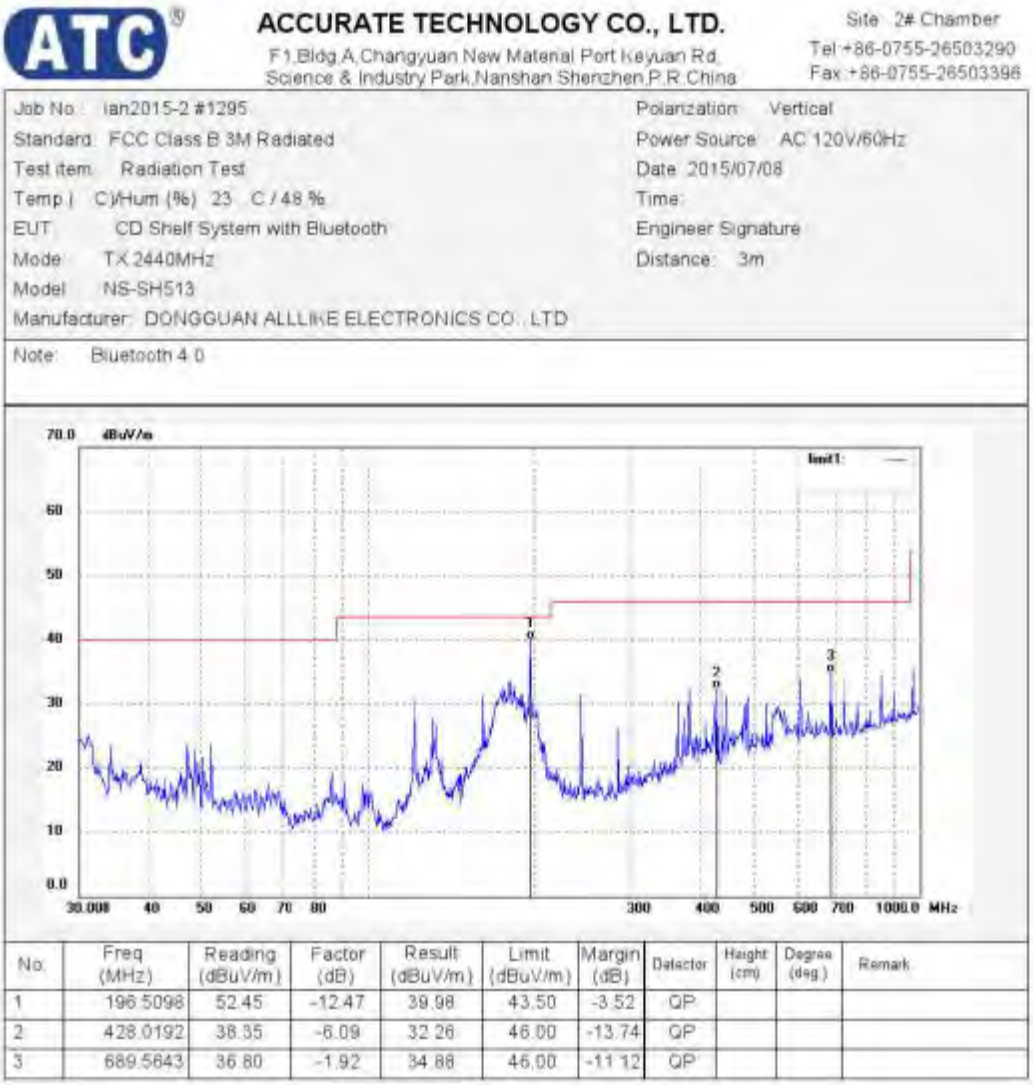
Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	151@M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	151@M



Page 1/1 2015-7-11 P-0711-13

Figure 14: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), Low Energy (Mid)



ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1295	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/07/08
Temp.(C)/Hum.(%): 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2440MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

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	196.5098	52.45	-12.47	39.98	43.50	-3.52	QP			
2	428.0192	38.35	-6.09	32.26	46.00	-13.74	QP			
3	689.5643	36.80	-1.92	34.88	46.00	-11.12	QP			

Page: 1 http://www.atc-lab.com

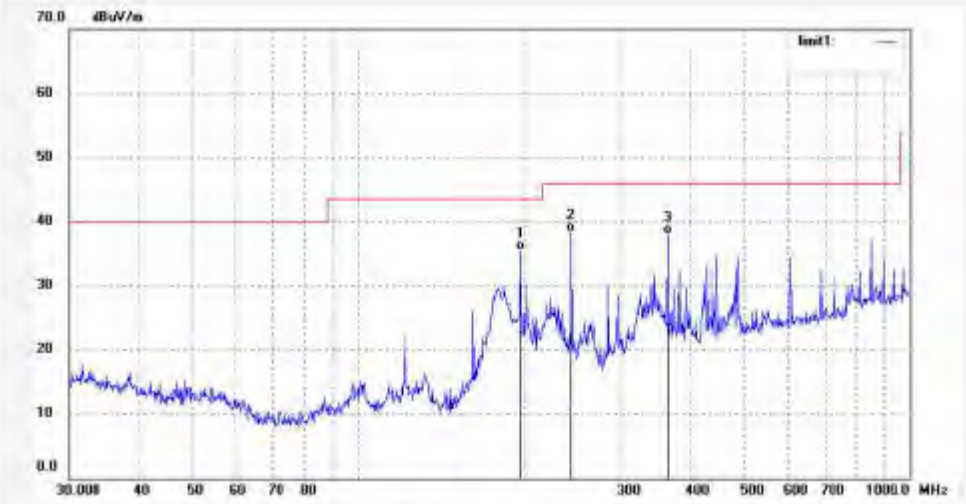
ACCURATE TECHNOLOGY CO., LTD.

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: Ian2015-2 #1296	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/07/08
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2440MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

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	196.5098	48.13	-12.47	35.66	43.50	-7.84	QP			
2	243.3771	49.20	-10.82	38.38	46.00	-7.62	QP			
3	364.2595	45.65	-7.57	38.08	46.00	-7.92	QP			

Figure 15: Test figure of Radiated Spurious Emissions (1GHz –25GHz), Low Energy (Mid)

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1230
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2440MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

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	98.49	-7.36	91.13	/	/	peak			
2	4880.023	46.29	0.13	46.42	74.00	-27.58	peak			
3	4880.023	39.05	0.13	39.18	54.00	-14.82	AVG			

Page: 1

http://www.atc-lab.com

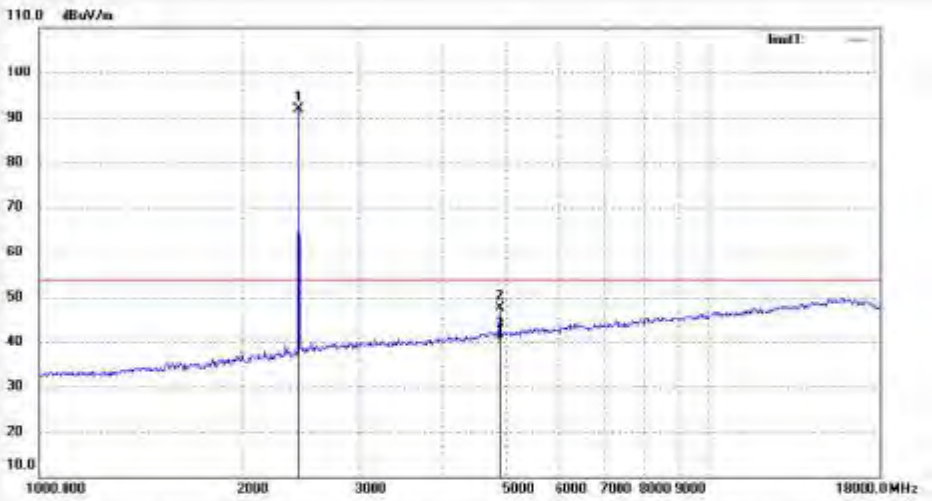
ACCURATE TECHNOLOGY CO., LTD.

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.: Ian2015-2 #1231	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/04/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2440MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

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	99.22	-7.36	91.86	/	/	peak			
2	4880.022	47.46	0.13	47.59	74.00	-26.41	peak			
3	4880.022	40.21	0.13	40.34	54.00	-13.66	AVG			

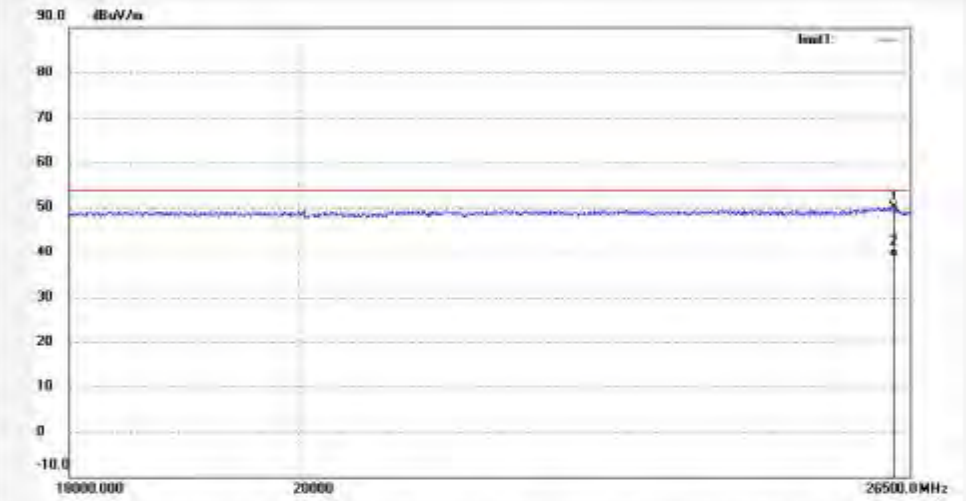
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port,Keyuan Rd.
Science & Industry Park,Nanshan,Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1276
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2440MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

Note: Bluetooth 4.0



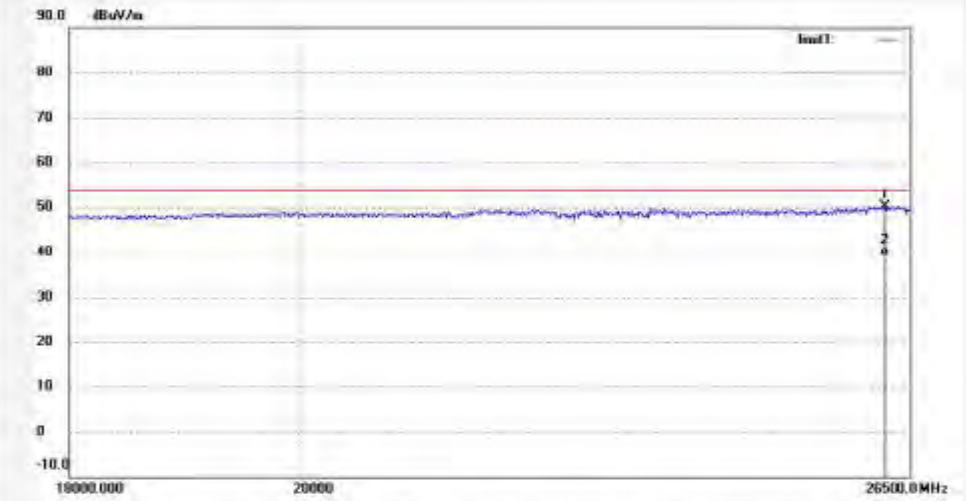
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26305.974	33.44	16.50	49.94	74.00	-24.06	peak			
2	26305.974	22.35	16.50	38.85	54.00	-15.15	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1277
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2440MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polanzation: Vertical
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

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	26194.292	33.71	16.50	50.21	74.00	-23.79	peak			
2	26194.292	22.57	16.50	39.07	54.00	-14.93	AVG			

Figure 16: Test figure of Radiated Spurious Emissions (9kHz – 30MHz), Low Energy (High)

ACCURATE TECHNOLOGY CO.,LTD

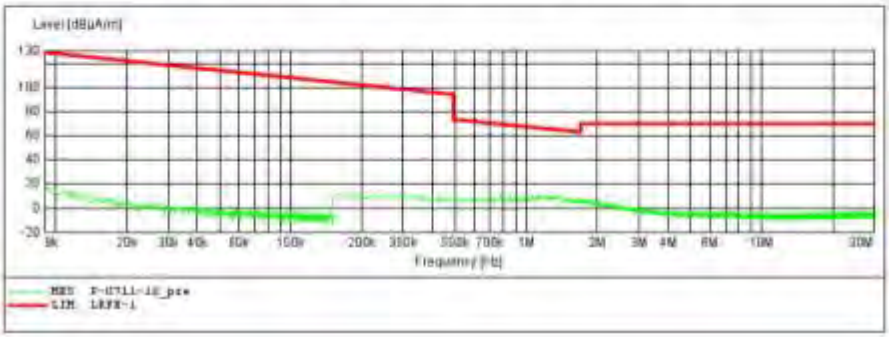
FCC Class B 3m Radiated

```
EUT:                CD Shelf System with Bluetooth M/N:NS-BH513
Manufacturer:       DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition: TX 2480MHz
Test Site:          3# Chamber
Operator:           LAN
Test Specification: AC 120V/60Hz
Comment:            X
Start of Test:      2015-7-11 /
```

SCAN TABLE: "LFRE Fin"

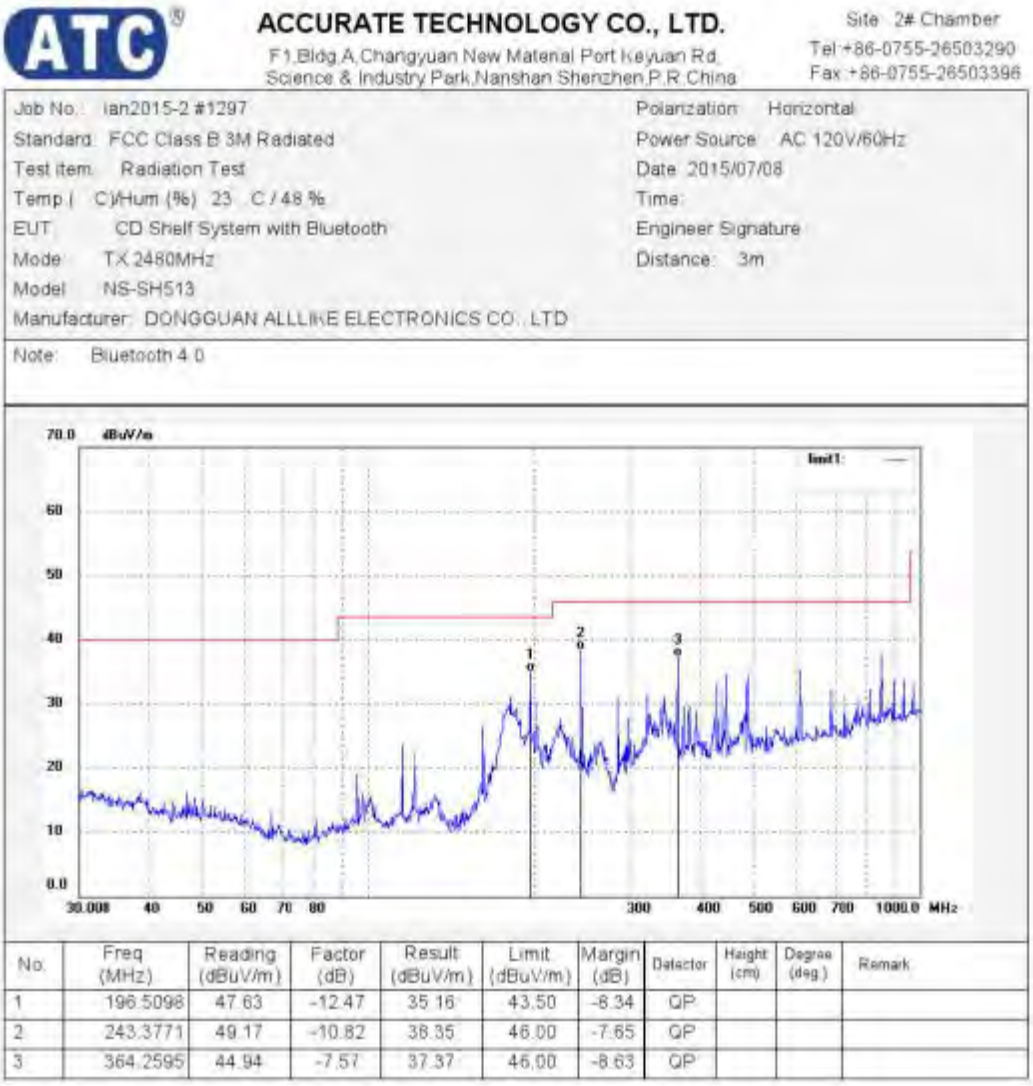
Short Description: _SUB_STD_VTEPM□ 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1518M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1518M



Page 1/1 2015-7-11 P-0711-16

Figure 17: Test figure of Radiated Spurious Emissions (30MHz – 1GHz), Low Energy (High)



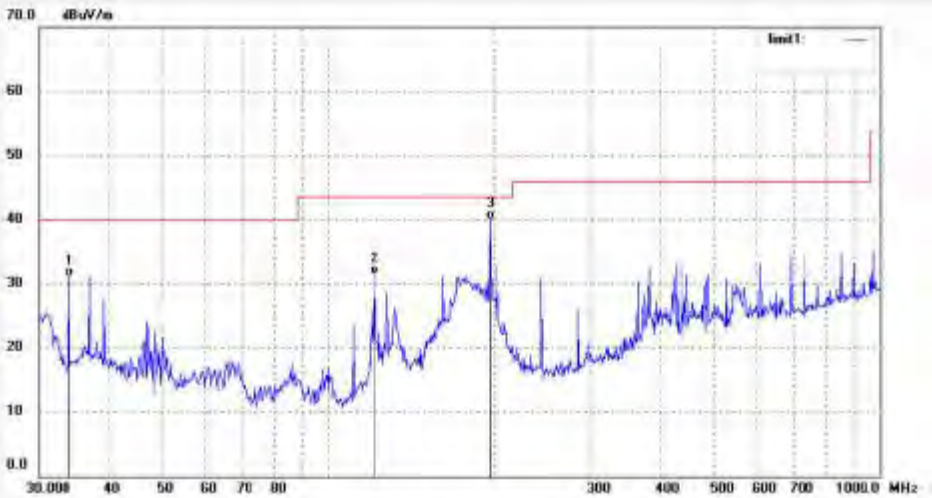
No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	196.5098	47.63	-12.47	35.16	43.50	-8.34	QP			
2	243.3771	49.17	-10.82	38.35	46.00	-7.65	QP			
3	364.2595	44.94	-7.57	37.37	46.00	-8.63	QP			

ACCURATE TECHNOLOGY CO., LTD.
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: Ian2015-2 #1298	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/07/08
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

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	34.0363	41.34	-10.32	31.02	40.00	-8.98	QP			
2	121.5485	44.65	-13.32	31.33	43.50	-12.17	QP			
3	196.5098	52.54	-12.47	40.07	43.50	-3.43	QP			

Figure 18: Test figure of Radiated Spurious Emissions (1GHz –25GHz), Low Energy (High)

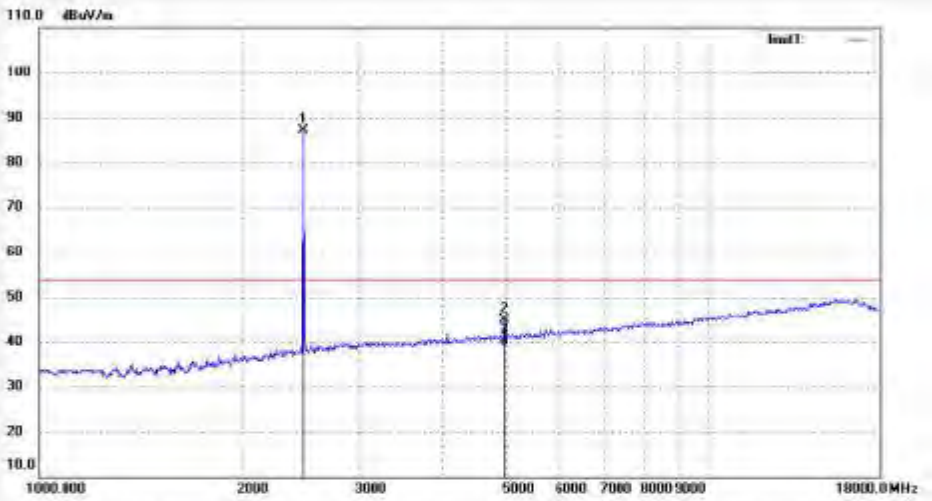
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg)	Remark
1	2480.000	99.71	-7.37	92.34	/	/	peak			
2	4960.025	46.11	0.52	46.63	74.00	-27.37	peak			
3	4960.025	39.62	0.52	40.14	54.00	-13.86	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1233	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/04/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

Note: Bluetooth 4.0

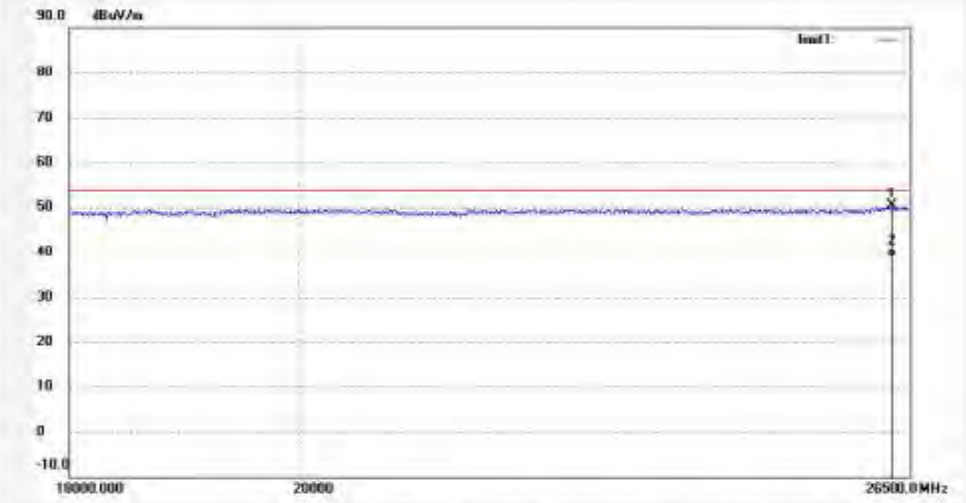


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	94.53	-7.37	87.16	/	/	peak			
2	4960.026	44.45	0.52	44.97	74.00	-29.03	peak			
3	4960.026	38.51	0.52	39.03	54.00	-14.97	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1278	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/04/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD	
Note: Bluetooth 4.0	



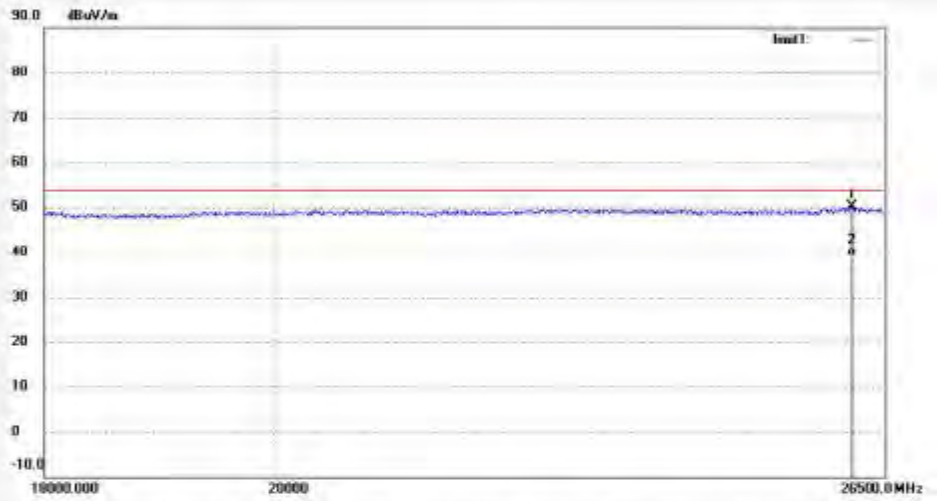
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26275.468	33.84	16.50	50.34	74.00	-23.66	peak			
2	26275.468	22.35	16.50	38.85	54.00	-15.15	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1279
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2480MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD.

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

Note: Bluetooth 4.0



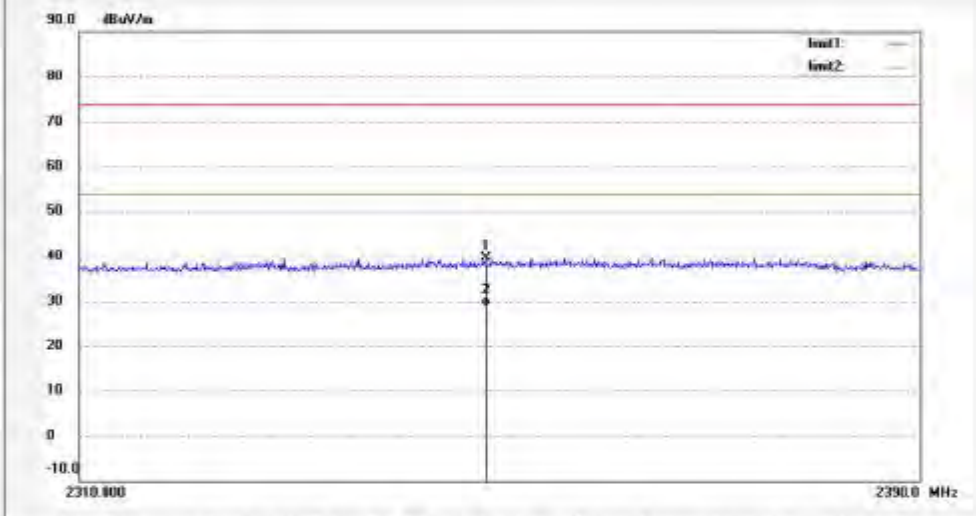
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26103.270	33.61	16.50	50.11	74.00	-23.89	peak			
2	26103.270	22.52	16.50	39.02	54.00	-14.98	AVG			

Figure 19: Test figure of Radiated Emissions in Restricted Bands, BDR (Low)

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1218
Standard: FCC (Band Edge)
Test Item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2402MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD.
Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

Note: Bluetooth



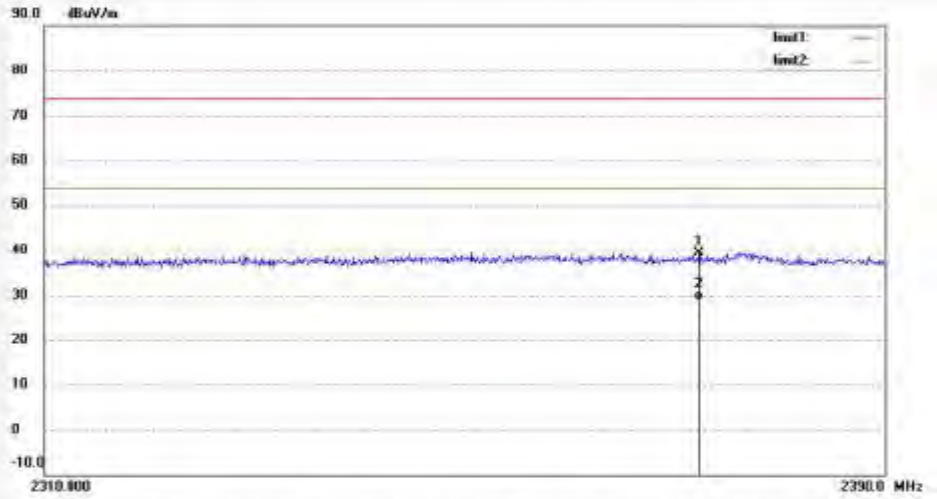
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2348.400	47.52	-7.78	39.74	74.00	-34.26	peak			
2	2348.400	36.63	-7.78	28.85	54.00	-25.15	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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

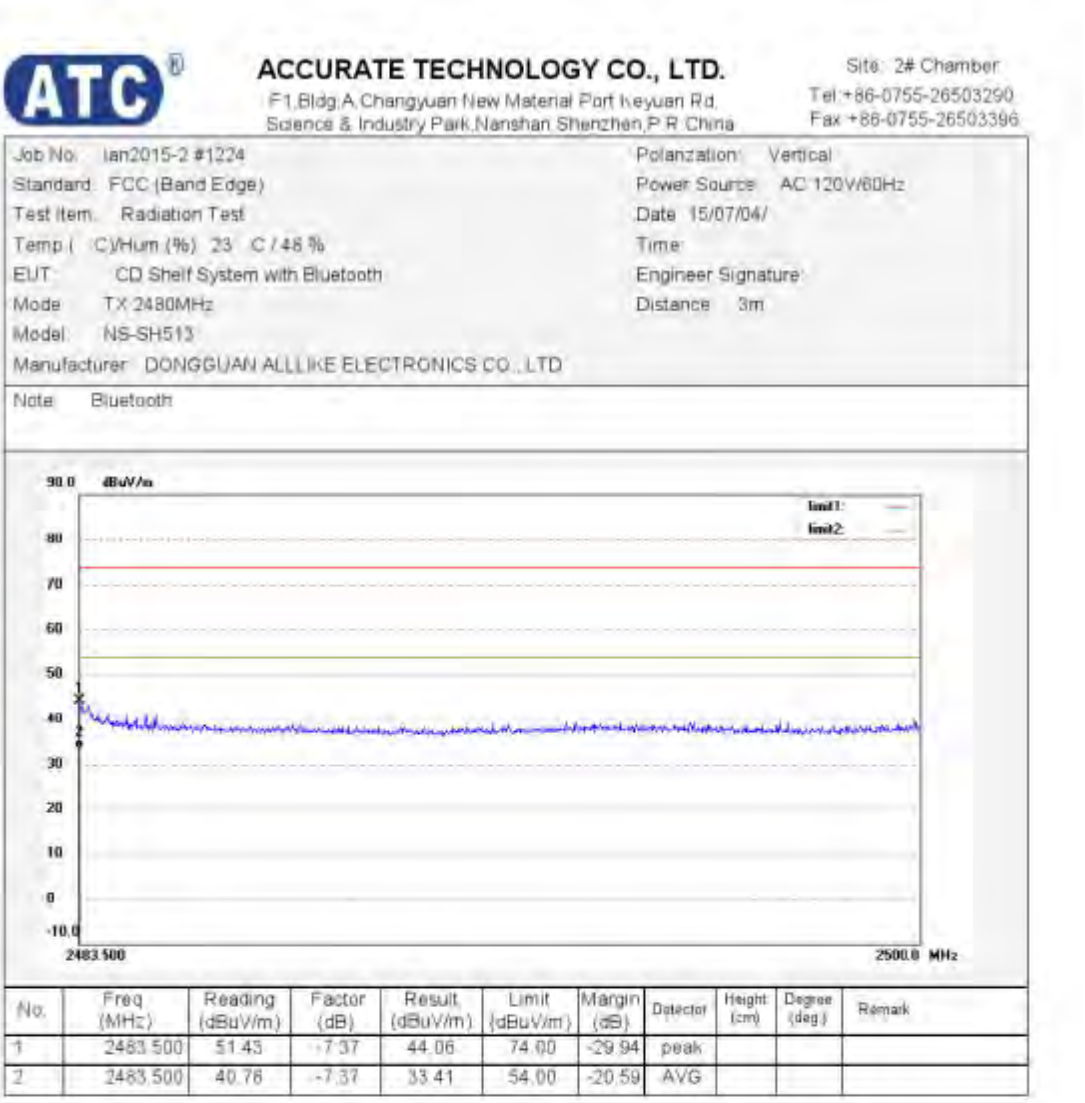
Job No.: Ian2015-2 #1219	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/04/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

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	2372.160	47.14	-7.64	39.50	74.00	-34.50	peak			
2	2372.160	36.45	-7.64	28.81	54.00	-25.19	AVG			

Figure 20: Test figure of Radiated Emissions in Restricted Bands, BDR (High)



ACCURATE TECHNOLOGY CO., LTD.
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: Ian2015-2 #1224	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/04/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD	

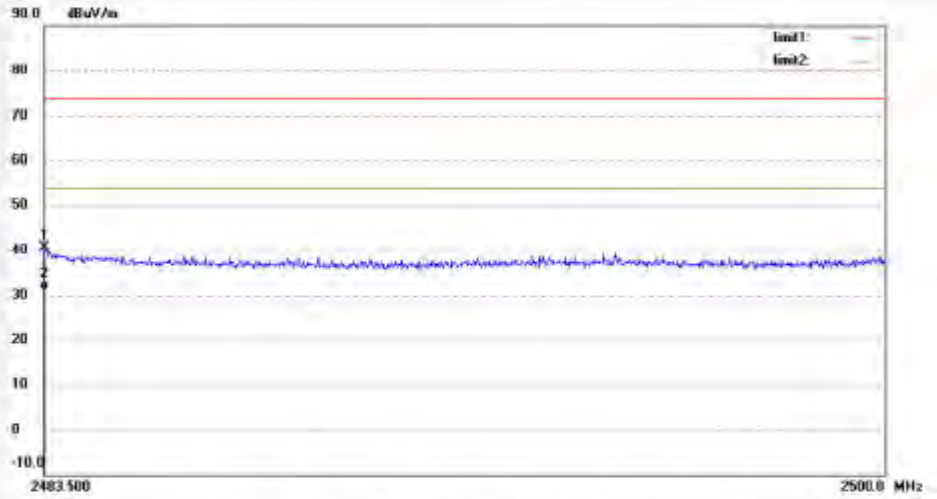
Note: Bluetooth

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	51.43	-7.37	44.06	74.00	-29.94	peak			
2	2483.500	40.78	-7.37	33.41	54.00	-20.59	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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

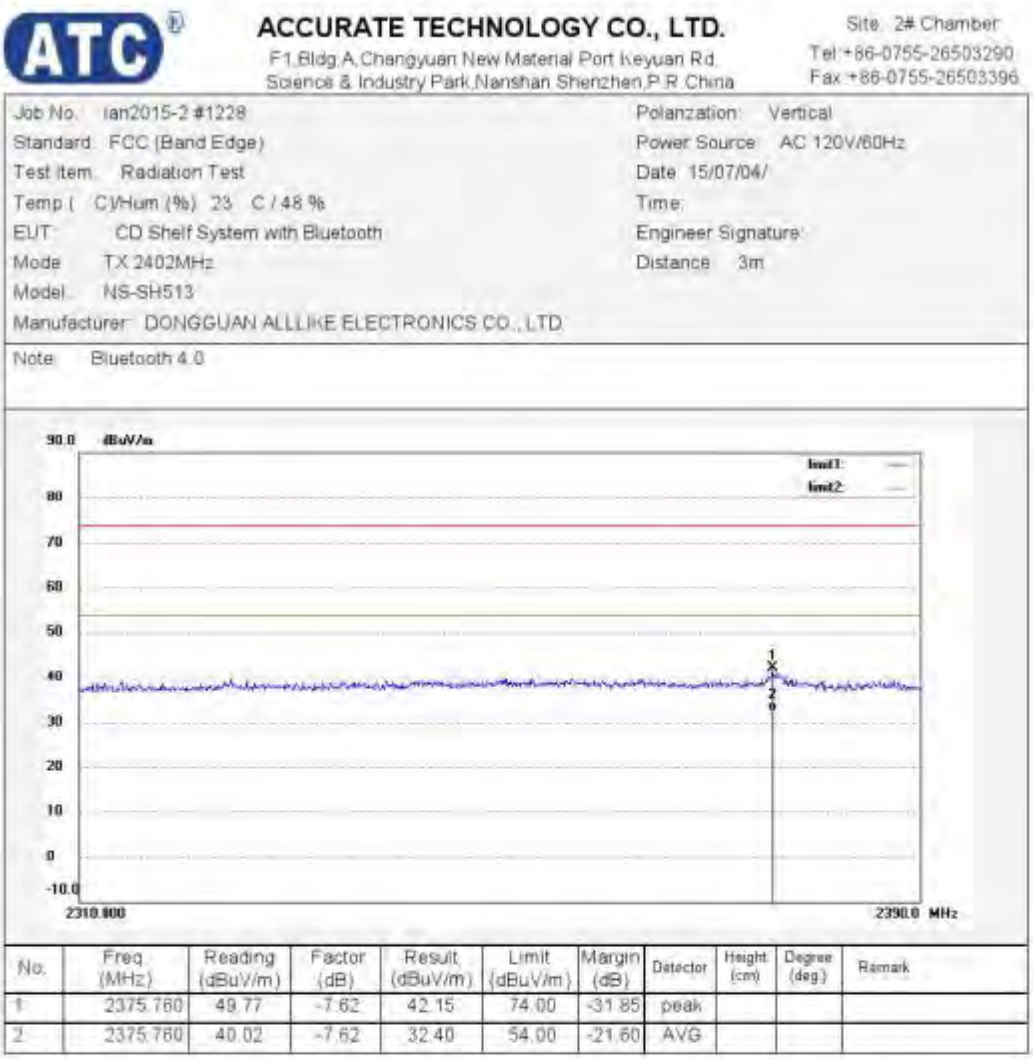
Job No: Ian2015-2 #1225	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/04/
Temp (°C)/Hum (%): 23 °C / 46 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

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	47.93	-7.37	40.56	74.00	-33.44	peak			
2	2483.500	38.47	-7.37	31.10	54.00	-22.90	AVG			

Figure 21: Test figure of Radiated Emissions in Restricted Bands, Low Energy (Low),



ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1228	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/04/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

Note: Bluetooth 4.0

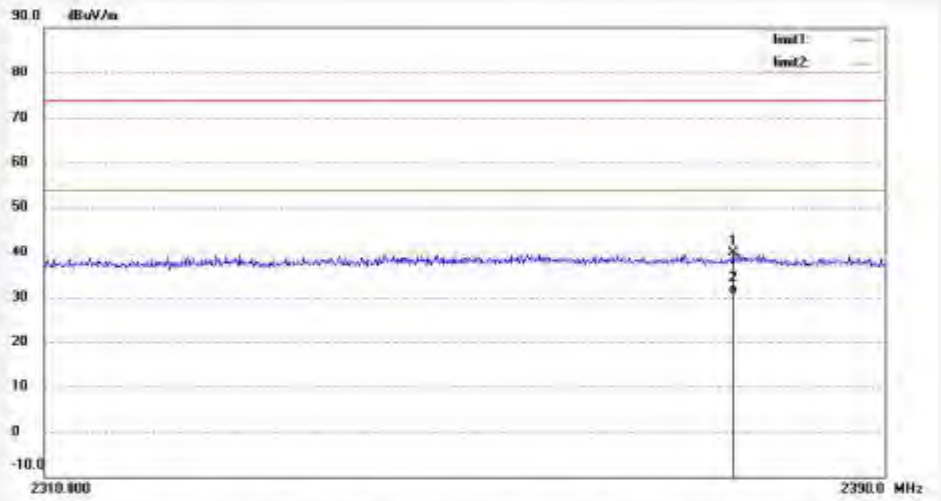
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg)	Remark
1	2375.760	49.77	-7.62	42.15	74.00	-31.85	peak			
2	2375.760	40.02	-7.62	32.40	54.00	-21.60	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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

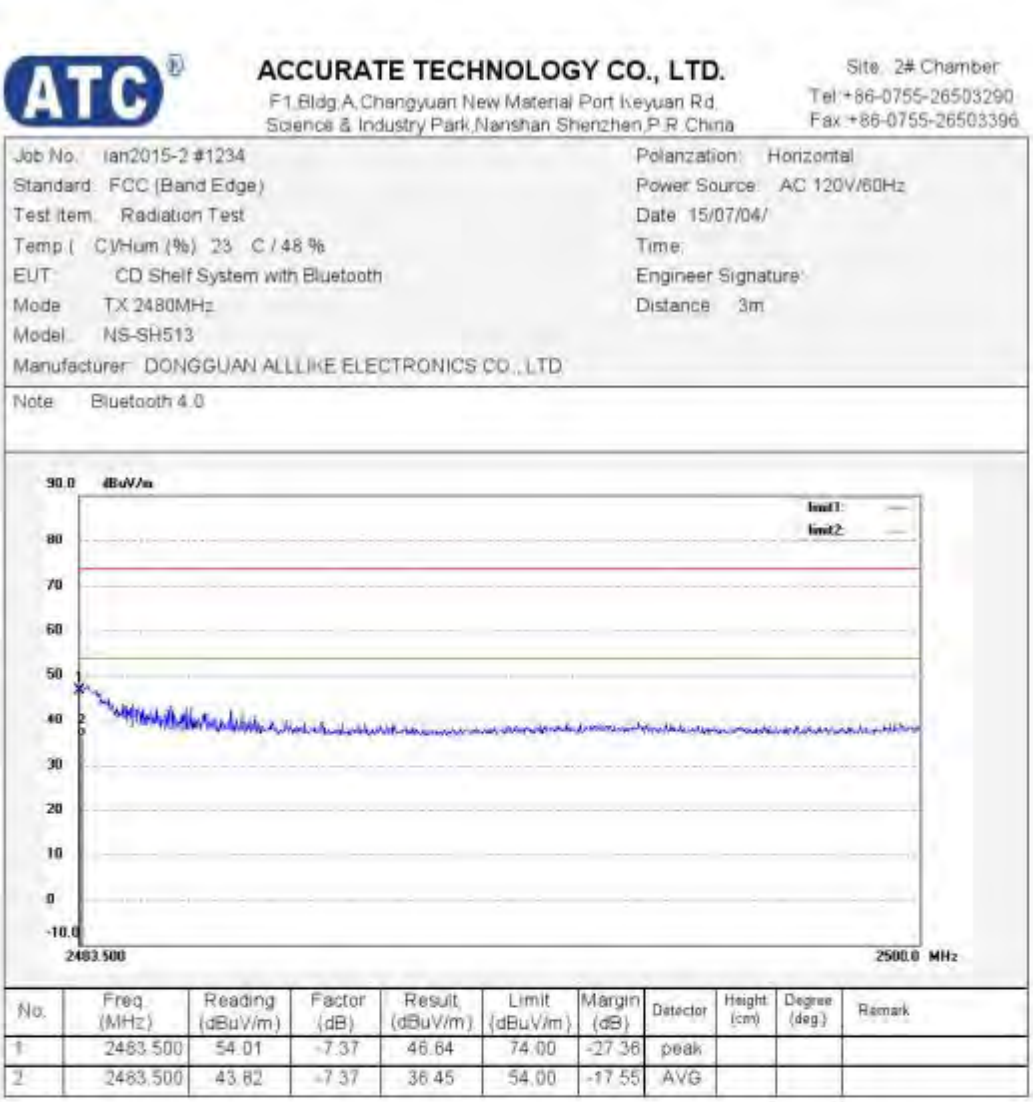
Job No.: Ian2015-2 #1229	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/04/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

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	2375.360	47.42	-7.62	39.80	74.00	-34.20	peak			
2	2375.360	38.28	-7.62	30.66	54.00	-23.34	AVG			

Figure 22: Test figure of Radiated Emissions in Restricted Bands, Low Energy (High)



ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1234
Standard: FCC (Band Edge)
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2480MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD.
Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

Note: Bluetooth 4.0

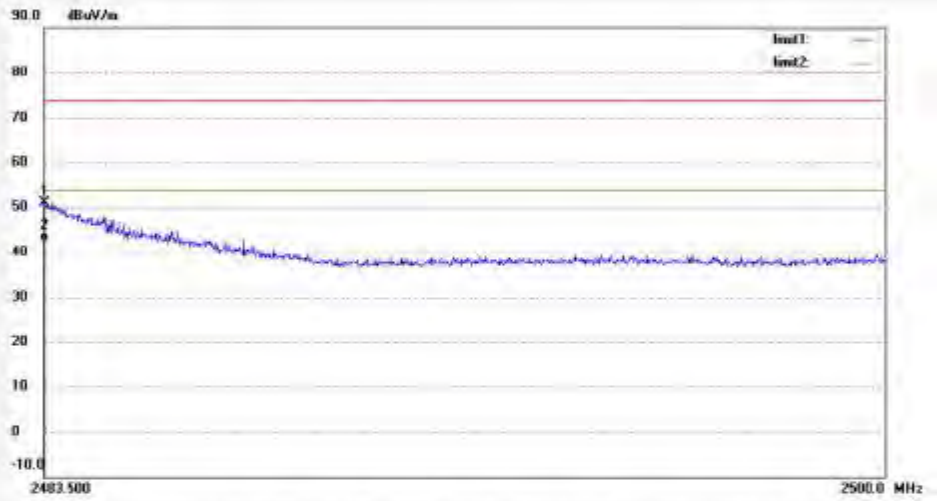
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg)	Remark
1	2483.500	54.01	-7.37	46.64	74.00	-27.36	peak			
2	2483.500	43.82	-7.37	36.45	54.00	-17.55	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1235
Standard: FCC (Band Edge)
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: TX 2480MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polanzation: Vertical
Power Source: AC 120V/60Hz
Date: 15/07/04/
Time:
Engineer Signature:
Distance: 3m

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	56.18	-7.37	50.81	74.00	-23.19	peak			
2	2483.500	49.73	-7.37	42.36	54.00	-11.64	AVG			

Figure 23: Test figure of Conducted Emissions

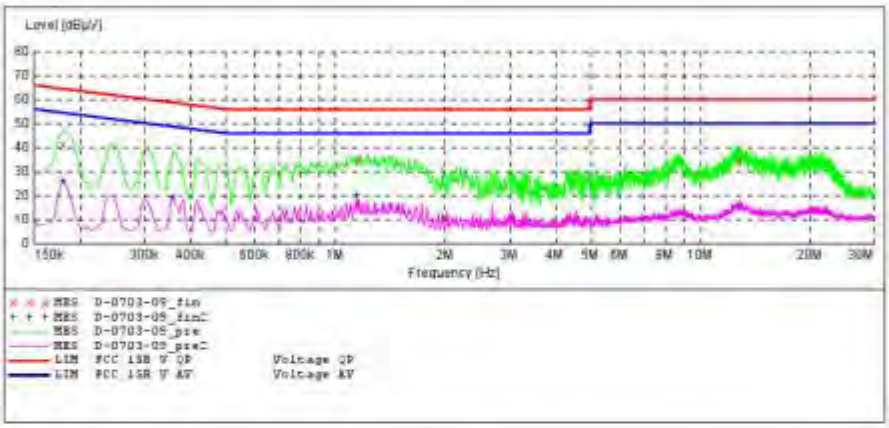
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer:       DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition: On with Bluetooth Playing
Test Site:          1#Shielding Room
Operator:           LAN
Test Specification: N 120V/60Hz
Comment:            Mains Port
Start of Test:      7/3/2015 /
```

SCAN TABLE: "V 9K-30MHz fin"

```
Short Description:                  SUB_STD_VTERM2 1.70
Start      Stop       Step       Detector   Meas.    IF      Transducer
Frequency  Frequency  Width                 Time     Bandw.
9.0 kHz    150.0 kHz  100.0 Hz   QuasiPeak  1.0 s    200 Hz  NSLK8126 2008
                                 Average
150.0 kHz  30.0 MHz   5.0 kHz    QuasiPeak  1.0 s    9 kHz   NSLK8126 2008
                                 Average
```



MEASUREMENT RESULT: "D-0703-09_fin"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.180000	40.70	10.5	65	23.8	QP	N	GND
1.165000	33.90	10.9	56	22.1	QP	N	GND
12.850000	33.70	11.3	60	26.3	QP	N	GND

MEASUREMENT RESULT: "D-0703-09_fin2"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.180000	25.70	10.5	55	28.8	AV	N	GND
0.360000	19.00	10.6	48	29.7	AV	N	GND
1.150000	20.00	10.9	46	26.0	AV	N	GND

Page 1/1 7/3/2015 D-0703-09

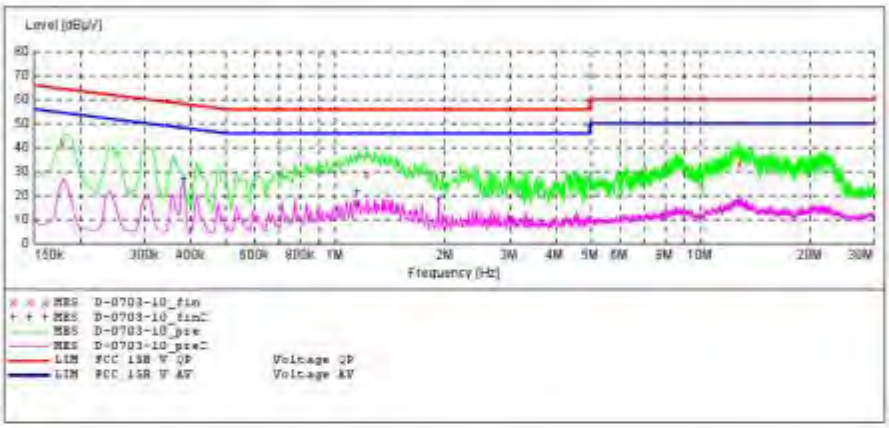
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer:         DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition:  On with Bluetooth
Test Site:            1#Shielding Room
Operator:             LAN
Test Specification:   L 120V/60Hz
Comment:              Mains Port
Start of Test:        7/3/2015 /
```

SCAN TABLE: "V 9K-30MHz fin"

```
Short Description:                 SUB_STD_VTERM2 1.70
Start      Stop       Step       Detector  Meas.     IF       Transducer
Frequency  Frequency  Width                Time      Bandw.
9.0 kHz    150.0 kHz  100.0 Hz   QuasiPeak 1.0 s     200 Hz   NSLK8126 2008
                                 Average
150.0 kHz  30.0 MHz   5.0 kHz    QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                 Average
```



MEASUREMENT RESULT: "D-0703-10_fin"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.180000	41.50	10.5	65	23.0	QP	L1	GND
1.225000	28.50	10.9	56	27.5	QP	L1	GND
12.865000	32.70	11.3	60	27.3	QP	L1	GND

MEASUREMENT RESULT: "D-0703-10_fin2"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.385000	26.30	10.7	48	21.9	AV	L1	GND
1.150000	21.40	10.9	46	24.6	AV	L1	GND
1.920000	18.10	11.0	46	27.9	AV	L1	GND
12.670000	17.30	11.3	50	32.7	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD

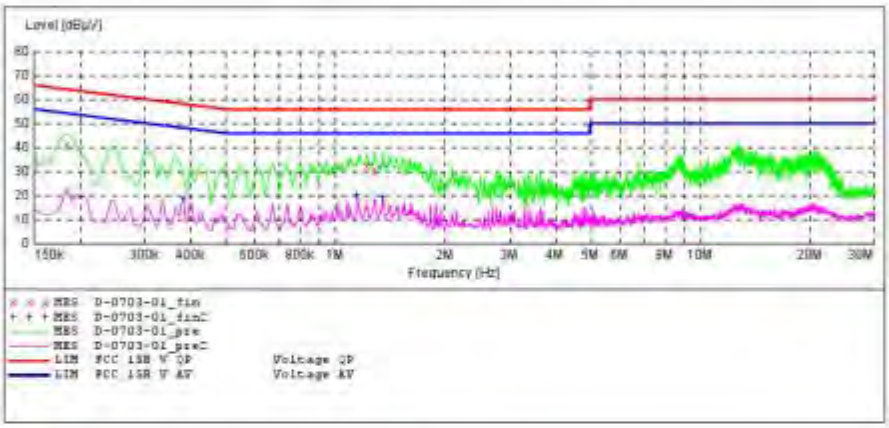
CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer:       DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition: CD Playing
Test Site:          1#Shielding Room
Operator:           LAN
Test Specification: N 120V/60Hz
Comment:            Mains Port
Start of Test:      7/3/2015 /
```

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "D-0703-01_fin"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.185000	41.00	10.5	64	23.3	QP	N	GND
1.225000	32.50	10.9	56	23.5	QP	N	GND
1.280000	30.00	10.9	56	26.0	QP	N	GND

MEASUREMENT RESULT: "D-0703-01_fin2"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.385000	18.50	10.7	48	29.7	AV	N	GND
1.150000	19.80	10.9	46	26.2	AV	N	GND
1.350000	18.70	10.9	46	27.3	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD

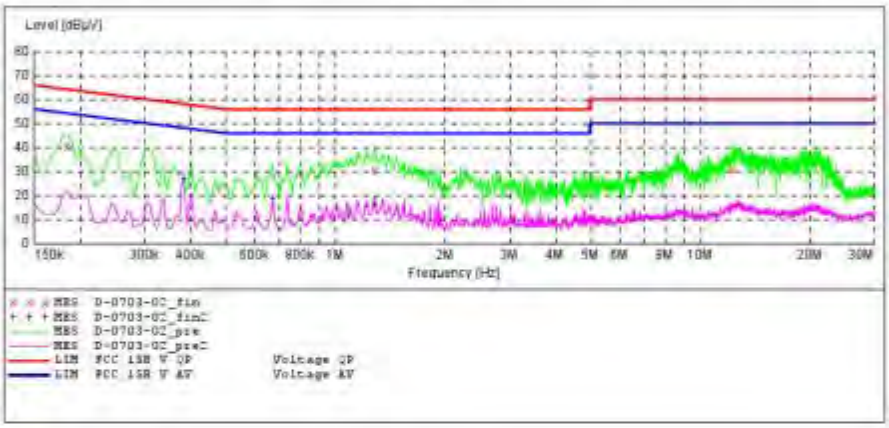
CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer:       DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition: CD Playing
Test Site:          1#Shielding Room
Operator:           LAN
Test Specification: L 120V/60Hz
Comment:            Mains Port
Start of Test:      7/3/2015 /
```

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "D-0703-02_fin"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.185000	40.30	10.5	64	24.0	QP	L1	GND
1.280000	30.00	10.9	56	26.0	QP	L1	GND
12.340000	30.60	11.3	60	29.4	QP	L1	GND

MEASUREMENT RESULT: "D-0703-02_fin2"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.385000	26.30	10.7	48	21.9	AV	L1	GND
0.675000	18.30	10.8	46	27.7	AV	L1	GND
1.280000	15.70	10.9	46	30.3	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD

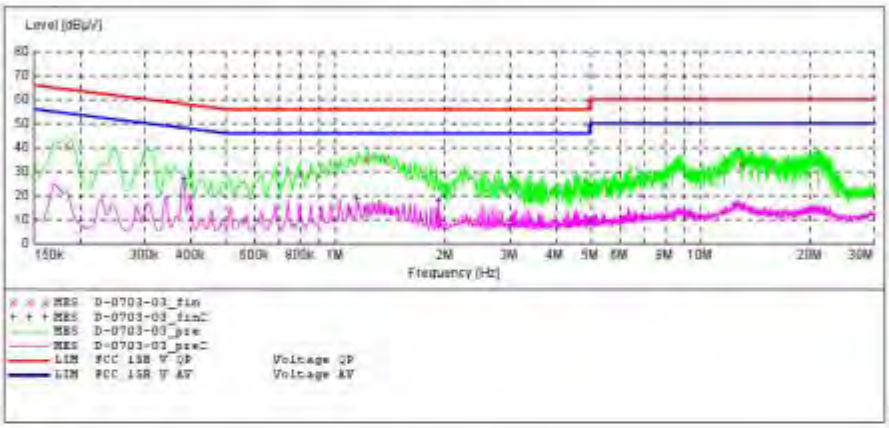
CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer:       DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition: USB Playing
Test Site:          1#Shielding Room
Operator:           LAN
Test Specification: L 120V/60Hz
Comment:            Mains Port
Start of Test:      7/3/2015 /
```

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "D-0703-03_fin"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.185000	40.40	10.5	64	23.9	QP	L1	GND
1.225000	34.50	10.9	56	21.5	QP	L1	GND
13.030000	32.70	11.3	60	27.3	QP	L1	GND

MEASUREMENT RESULT: "D-0703-03_fin2"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.385000	26.30	10.7	48	21.9	AV	L1	GND
1.150000	18.30	10.9	46	27.7	AV	L1	GND
1.920000	17.30	11.0	46	28.7	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD

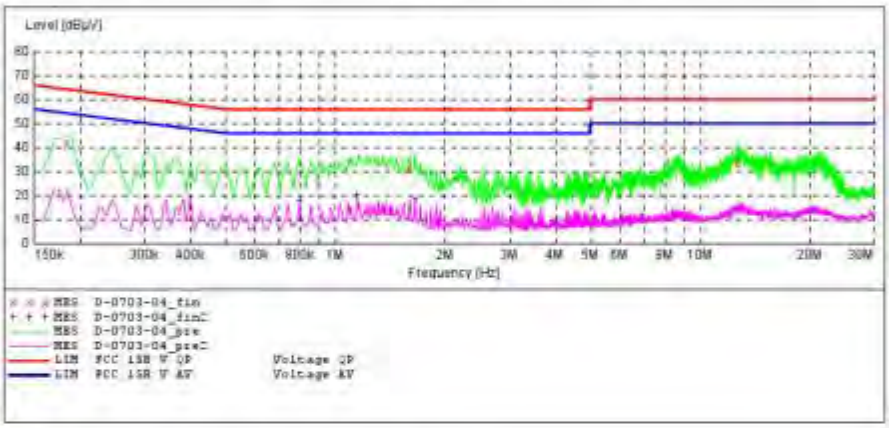
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition: USB Playing
Test Site: 1#Shielding Room
Operator: LAN
Test Specification: N 120V/60Hz
Comment: Mains Port
Start of Test: 7/3/2015 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "D-0703-04_fin"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.185000	41.40	10.5	64	22.9	QP	N	GND
1.600000	30.70	10.9	56	25.3	QP	N	GND
12.670000	33.40	11.3	60	26.6	QP	N	GND

MEASUREMENT RESULT: "D-0703-04_fin2"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.800000	17.50	10.8	46	28.5	AV	N	GND
1.150000	19.80	10.9	46	26.2	AV	N	GND
1.660000	17.80	10.9	46	28.2	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD

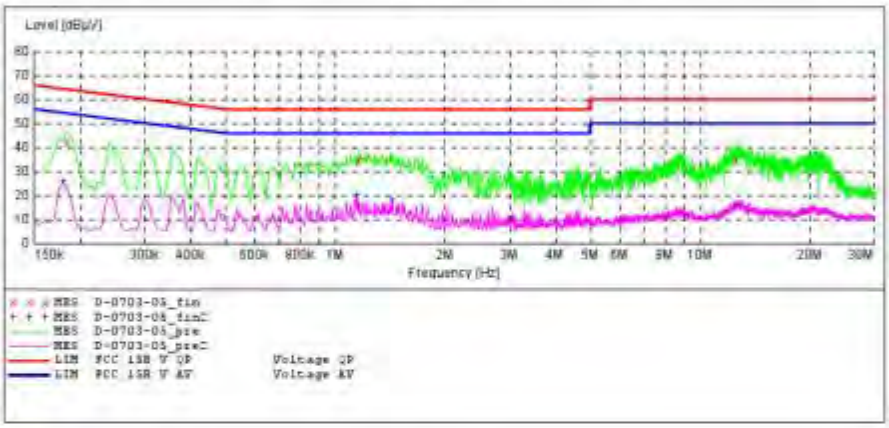
CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer:       DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition: Aux in
Test Site:          1#Shielding Room
Operator:           LAN
Test Specification: N 120V/60Hz
Comment:            Mains Port
Start of Test:      7/3/2015 /
```

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "D-0703-05_fin"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.185000	41.70	10.5	64	22.6	QP	N	GND
1.165000	34.00	10.9	56	22.0	QP	N	GND
12.565000	34.30	11.3	60	25.7	QP	N	GND

MEASUREMENT RESULT: "D-0703-05_fin2"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.180000	25.70	10.5	55	28.8	AV	N	GND
1.150000	20.10	10.9	46	25.9	AV	N	GND
1.435000	18.00	10.9	46	28.0	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD

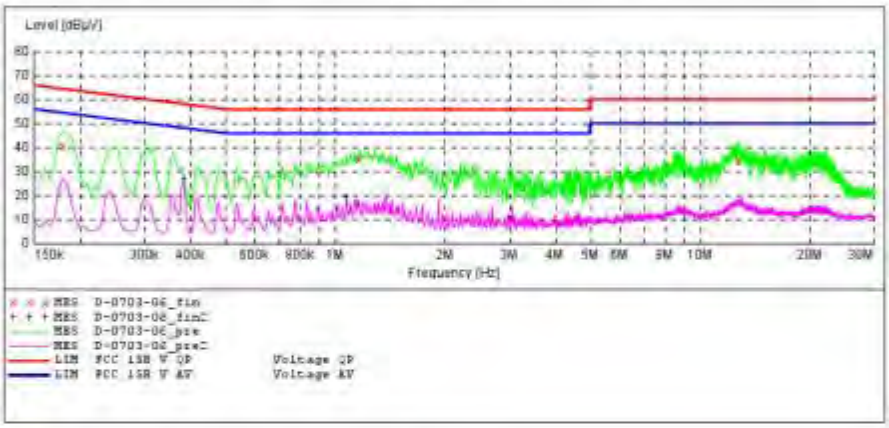
CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer:       DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition: Aux in
Test Site:          1#Shielding Room
Operator:           LAN
Test Specification: L 120V/60Hz
Comment:            Mains Port
Start of Test:      7/3/2015 /
```

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "D-0703-06_fin"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.180000	40.50	10.5	65	24.0	QP	L1	GND
1.165000	34.90	10.9	56	21.1	QP	L1	GND
12.745000	34.40	11.3	60	25.6	QP	L1	GND

MEASUREMENT RESULT: "D-0703-06_fin2"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.385000	26.30	10.7	48	21.9	AV	L1	GND
1.075000	18.70	10.9	46	27.3	AV	L1	GND
1.375000	17.90	10.9	46	28.1	AV	L1	GND

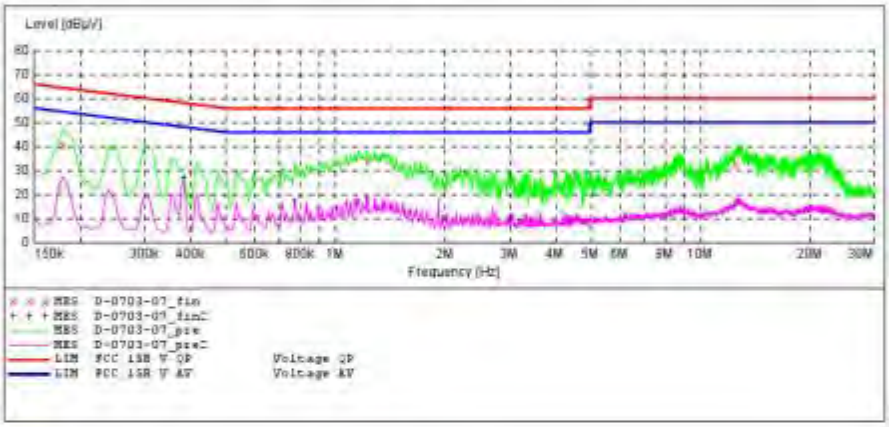
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer:         DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition:  Radio FM
Test Site:            1#Shielding Room
Operator:             LAN
Test Specification:   L 120V/60Hz
Comment:              Mains Port
Start of Test:        7/3/2015 /
```

SCAN TABLE: "V 9K-30MHz fin"

```
  Short Description:                 _SUB_STD_VTERM2 1.70
  Start      Stop       Step        Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width                 Time      Bandw.
  9.0 kHz    150.0 kHz  100.0 Hz    QuasiPeak 1.0 s     200 Hz   NSLK8126 2008
                                    Average
  150.0 kHz  30.0 MHz   5.0 kHz     QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                    Average
```



MEASUREMENT RESULT: "D-0703-07_fin"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.180000	40.50	10.5	65	24.0	QP	L1	GND
1.230000	33.70	10.9	56	22.3	QP	L1	GND
12.610000	32.30	11.3	60	27.7	QP	L1	GND

MEASUREMENT RESULT: "D-0703-07_fin2"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.385000	26.30	10.7	48	21.9	AV	L1	GND
0.775000	17.20	10.8	46	28.8	AV	L1	GND
1.225000	17.80	10.9	46	28.2	AV	L1	GND

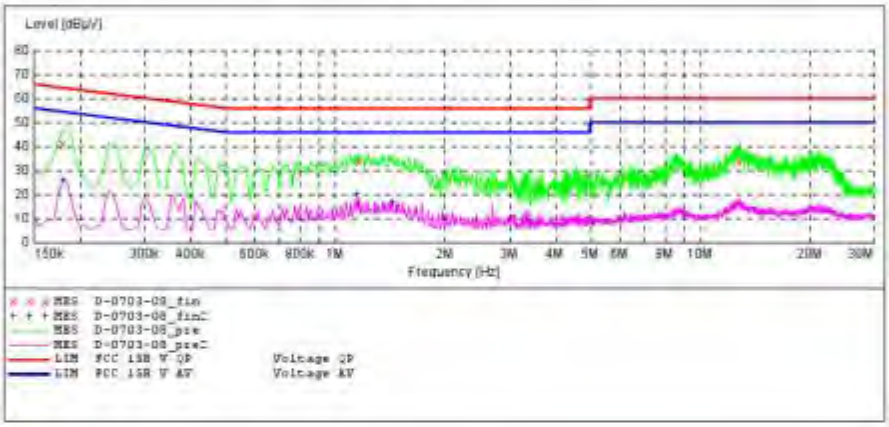
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  CD Shelf System with Bluetooth M/N:NS-SH513
Manufacturer:         DONGGUAN ALLLIKE ELECTRONICS CO., LTD
Operating Condition:  Radio FM
Test Site:            1#Shielding Room
Operator:             LAN
Test Specification:   N 120V/60Hz
Comment:              Mains Port
Start of Test:        7/3/2015 /
```

SCAN TABLE: "V 9K-30MHz fin"

```
  Short Description:                 _SUB_STD_VTERM2 1.70
  Start      Stop       Step        Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width                 Time      Bandw.
  9.0 kHz    150.0 kHz  100.0 Hz    QuasiPeak 1.0 s     200 Hz   NSLK8126 2008
                                    Average
  150.0 kHz  30.0 MHz   5.0 kHz     QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                    Average
```



MEASUREMENT RESULT: "D-0703-08_fin"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.180000	40.60	10.5	65	23.9	QP	N	GND
1.165000	33.70	10.9	56	22.3	QP	N	GND
12.865000	33.30	11.3	60	26.7	QP	N	GND

MEASUREMENT RESULT: "D-0703-08_fin2"

7/3/2015

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.180000	25.60	10.5	55	28.9	AV	N	GND
1.150000	20.00	10.9	46	26.0	AV	N	GND
1.435000	16.50	10.9	46	29.5	AV	N	GND

Figure 24: Test figure of Radiated Emissions

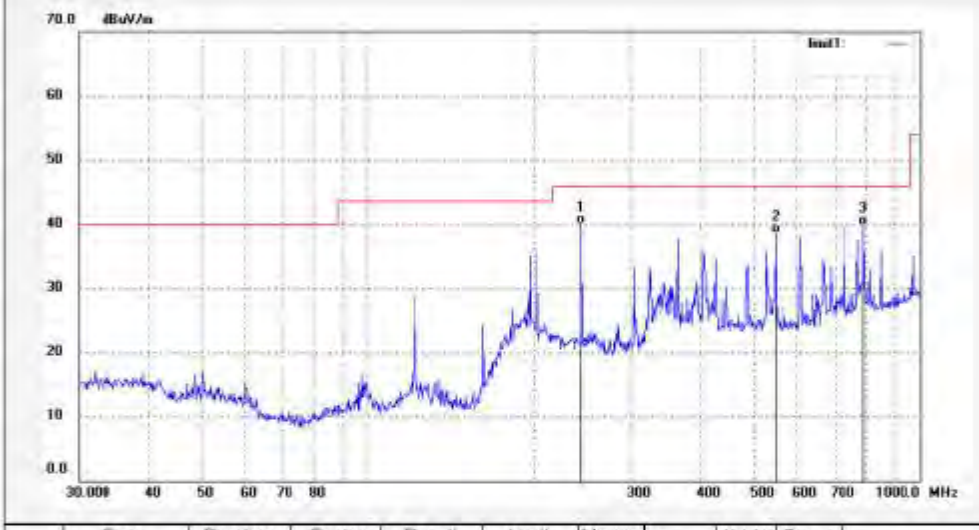
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1406
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: CD Playing
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/31/
Time:
Engineer Signature:
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	243.3771	50.77	-10.82	39.95	46.00	-6.05	QP			
2	547.0977	42.29	-3.70	38.59	46.00	-7.41	QP			
3	790.6186	39.97	-0.15	39.82	46.00	-6.18	QP			

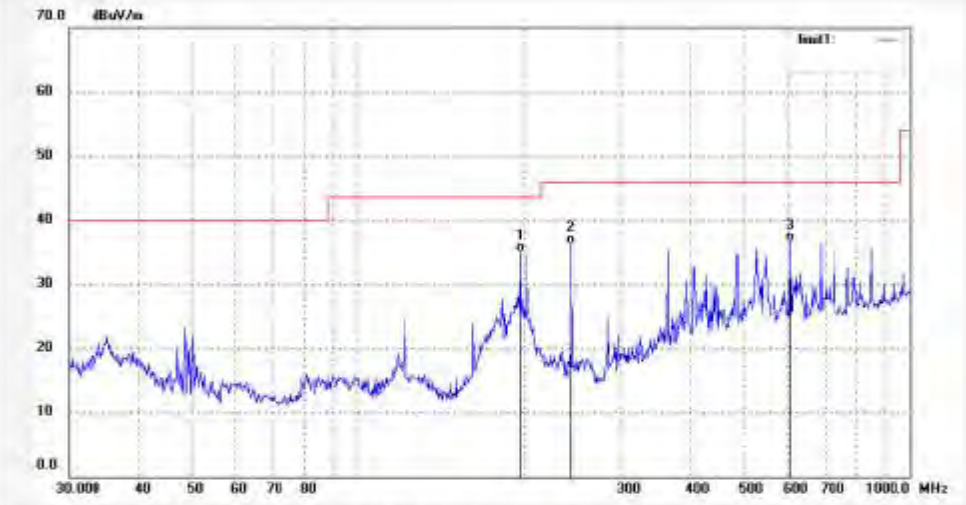
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1407
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: CD Playing
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/07/31/
Time:
Engineer Signature:
Distance: 3m

Note:



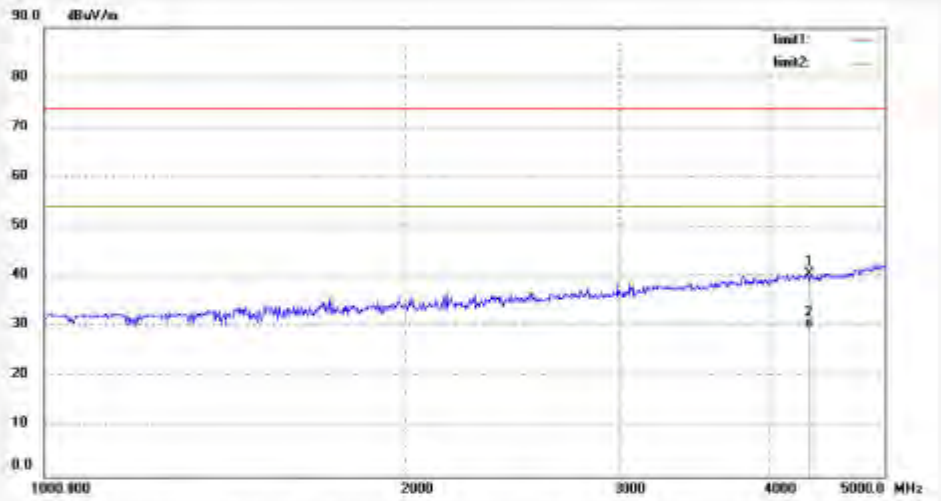
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	196.5098	47.59	-12.47	35.12	43.50	-8.38	QP			
2	243.3771	47.22	-10.82	36.40	46.00	-9.60	QP			
3	607.7866	39.45	-2.84	36.61	46.00	-9.39	QP			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1400	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/31/
Temp.(°C)/Hum.(%): 23 °C / 46 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: CD Playing	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD	

Note:



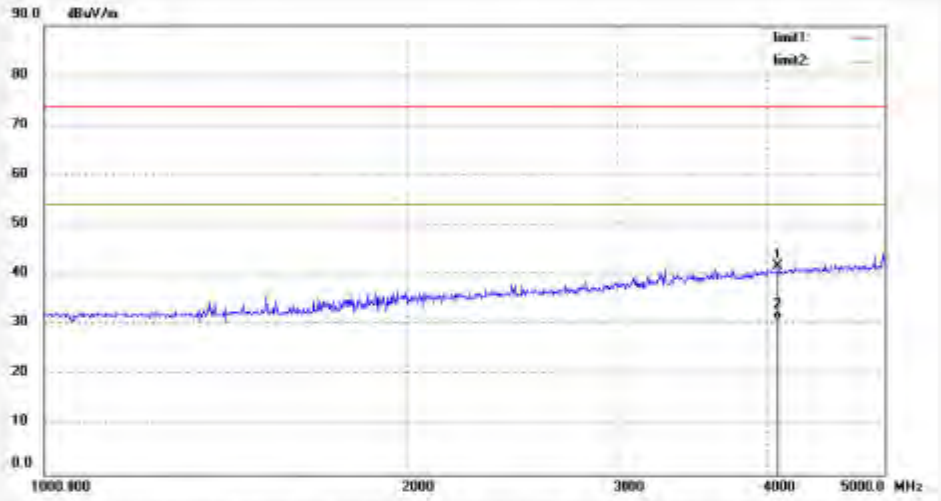
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4325.763	42.81	-1.95	40.86	74.00	-33.34	peak			
2	4325.763	31.78	-1.95	29.83	54.00	-24.17	AVG			

ATC®
ACCURATE TECHNOLOGY CO., LTD.
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: Ian2015-2 #1401
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(°C)/Hum.(%) 23 °C / 46 %
EUT: CD Shelf System with Bluetooth
Mode: CD Playing
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/07/31/
Time:
Engineer Signature:
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	4075.687	43.16	-1.51	41.65	74.00	-32.35	peak			
2	4075.687	32.47	-1.51	30.96	54.00	-23.04	AVG			

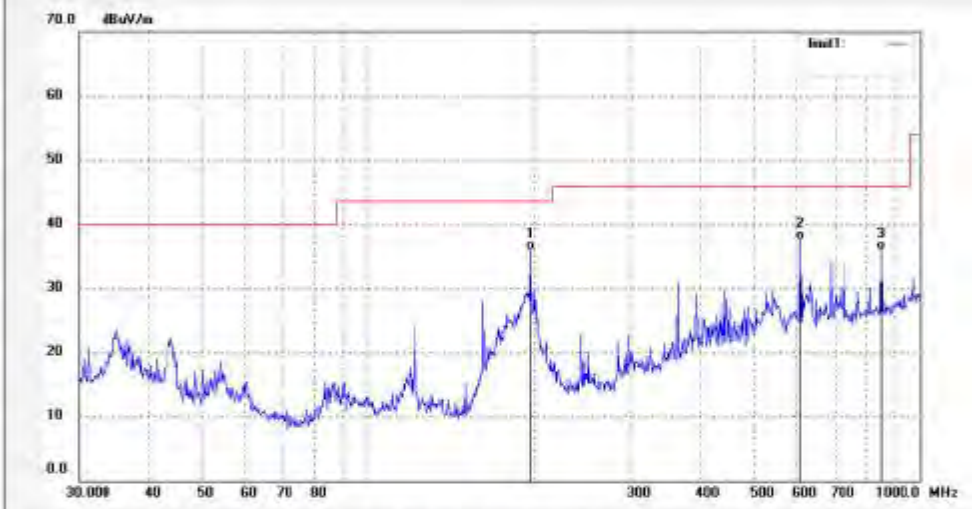
ACCURATE TECHNOLOGY CO., LTD.

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.: Ian2015-2 #1408	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/31/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: Aux in	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	196.5098	48.38	-12.47	35.91	43.50	-7.59	QP			
2	607.7866	40.38	-2.84	37.54	46.00	-8.46	QP			
3	851.0353	35.29	0.72	36.01	46.00	-9.99	QP			

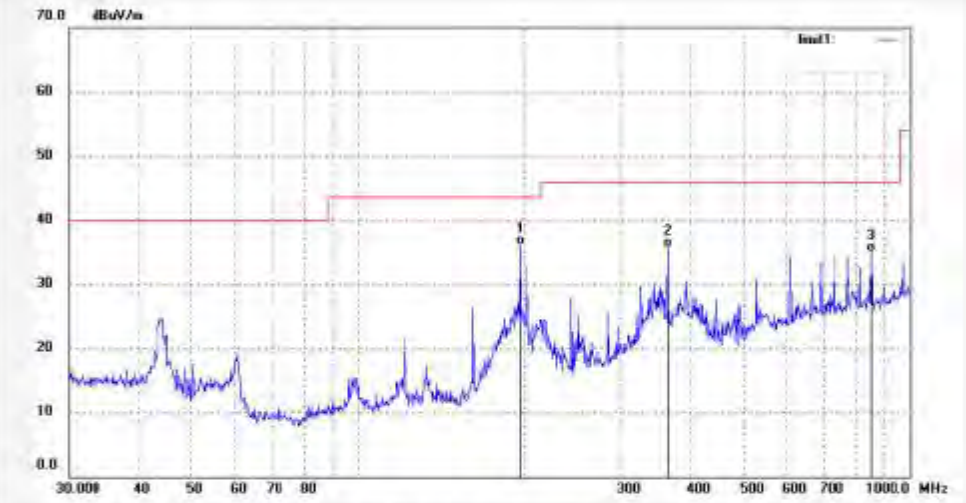
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1409
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: Aux in
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/31/
Time:
Engineer Signature:
Distance: 3m

Note:



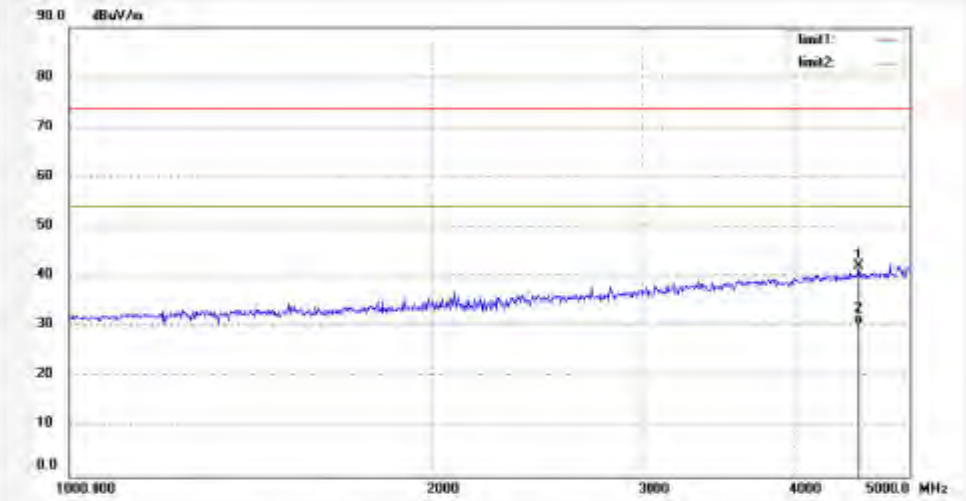
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	196.5098	48.54	-12.47	36.07	43.50	-7.43	QP			
2	364.2595	43.28	-7.57	35.71	46.00	-10.29	QP			
3	851.0353	34.41	0.72	35.13	46.00	-10.87	QP			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1402	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/31/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: Aux in	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4532.448	43.33	-1.25	42.08	74.00	-31.92	peak			
2	4532.448	31.82	-1.25	30.57	54.00	-23.43	AVG			

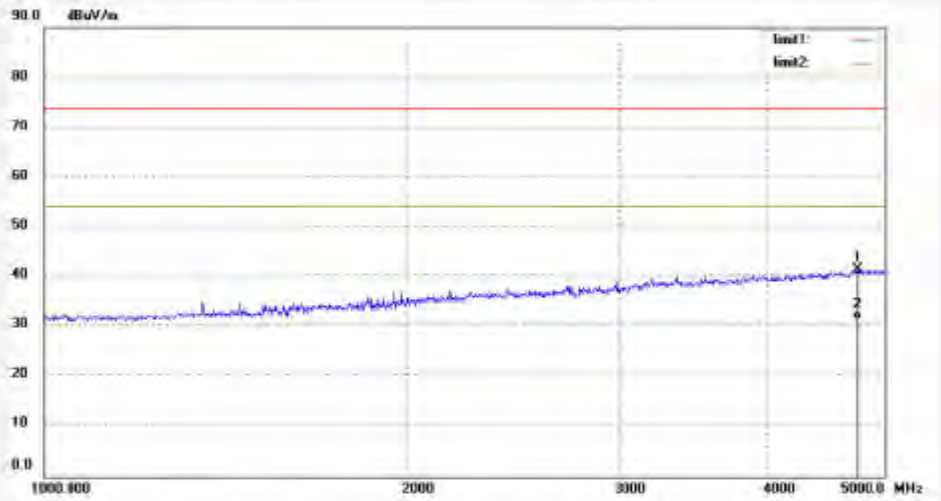
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port,Keyuan Rd.
Science & Industry Park,Nanshan,Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No: Ian2015-2 #1403
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 46 %
EUT: CD Shelf System with Bluetooth
Mode: Aux in
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/31/
Time:
Engineer Signature:
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	4741.372	42.10	-0.65	41.45	74.00	-32.55	peak			
2	4741.372	32.05	-0.65	31.40	54.00	-22.60	AVG			

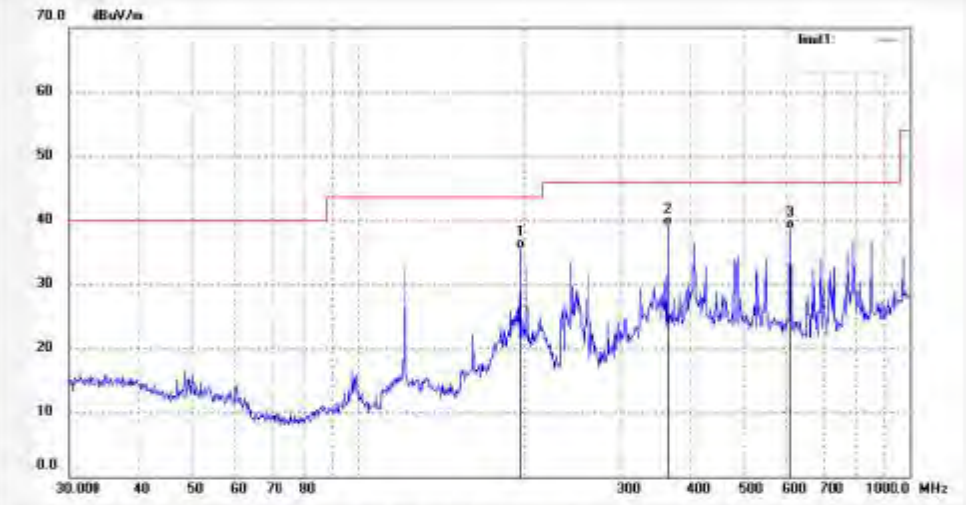
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port,Keyuan Rd.
Science & Industry Park,Nanshan,Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1410
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: USB Playing
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/31/
Time:
Engineer Signature:
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	196.5098	48.04	-12.47	35.57	43.50	-7.93	QP			
2	364.2595	46.63	-7.57	39.06	46.00	-6.94	QP			
3	607.7866	41.36	-2.84	38.52	46.00	-7.48	QP			

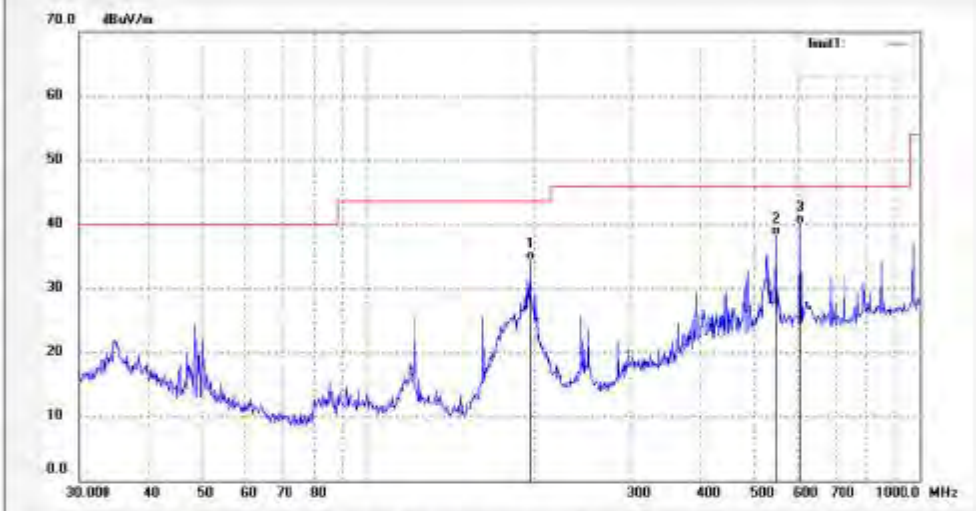
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port,Keyuan Rd.
Science & Industry Park,Nanshan,Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1411
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: USB Playing
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/07/31/
Time:
Engineer Signature:
Distance: 3m

Note:



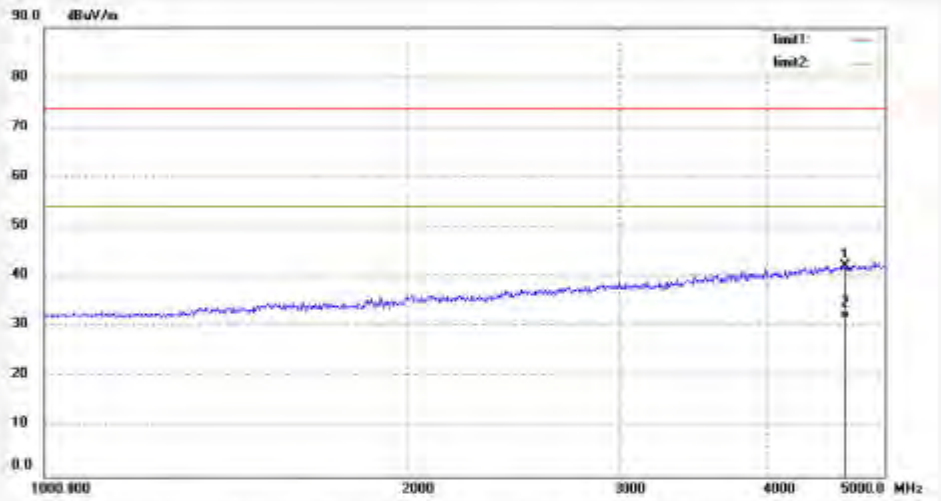
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	196.5098	46.85	-12.47	34.38	43.50	-9.12	QP			
2	547.0977	41.89	-3.70	38.19	46.00	-7.81	QP			
3	607.7866	42.85	-2.84	40.01	46.00	-5.99	QP			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1404	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/31/
Temp.(°C)/Hum.(%) 23 °C / 46 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: USB Playing	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD	

Note:



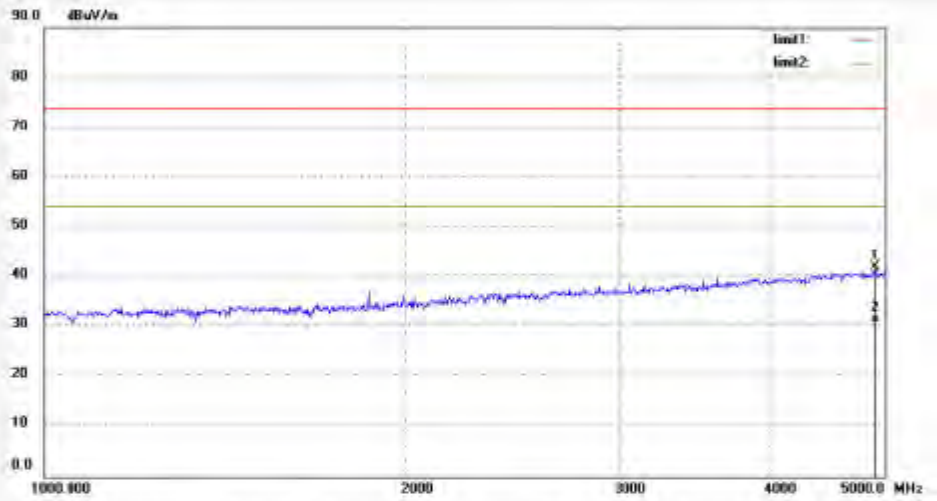
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4626.278	43.25	-1.07	42.18	74.00	-31.82	peak			
2	4626.278	32.71	-1.07	31.64	54.00	-22.36	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1405	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/31/
Temp.(°C)/Hum.(%): 23 °C / 46 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: USB Playing	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4912.260	41.56	0.29	41.85	74.00	-32.15	peak			
2	4912.260	30.35	0.29	30.64	54.00	-23.36	AVG			

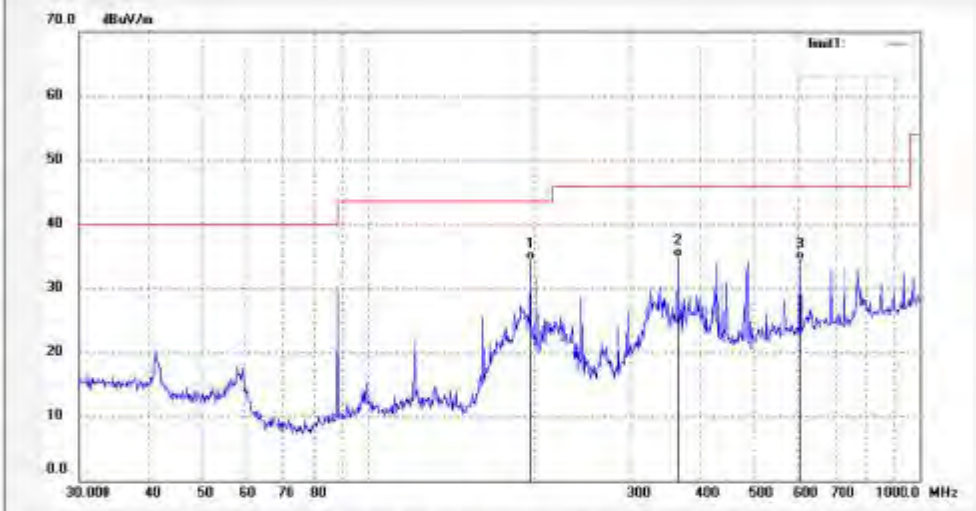
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port,Keyuan Rd.
Science & Industry Park,Nanshan,Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1388
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: FM 88.1MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/31/
Time:
Engineer Signature:
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	196.5098	47.87	-13.47	34.40	43.50	-9.10	QP			
2	364.2595	43.55	-8.57	34.98	46.00	-11.02	QP			
3	607.7866	38.28	-3.84	34.44	46.00	-11.56	QP			

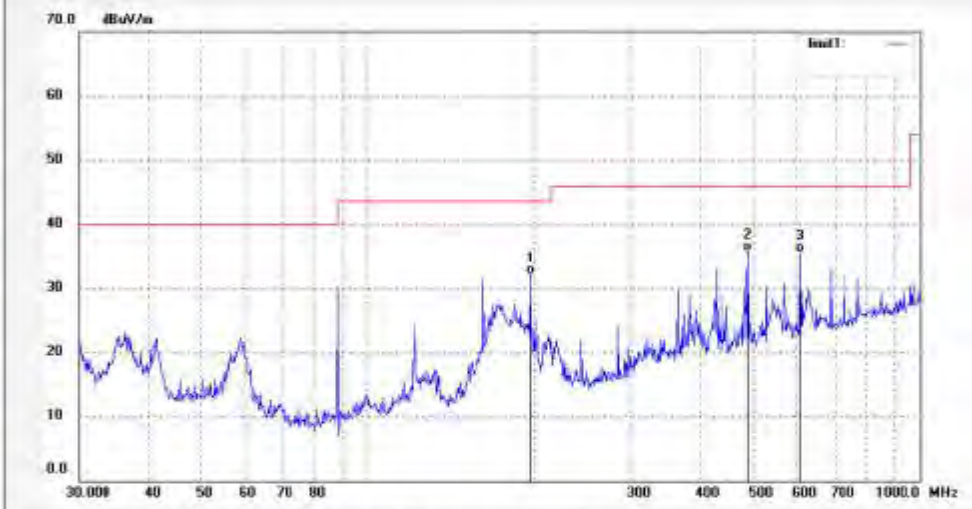
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port,Keyuan Rd.
Science & Industry Park,Nanshan,Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1389
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: FM 88.1MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/07/31/
Time:
Engineer Signature:
Distance: 3m

Note:



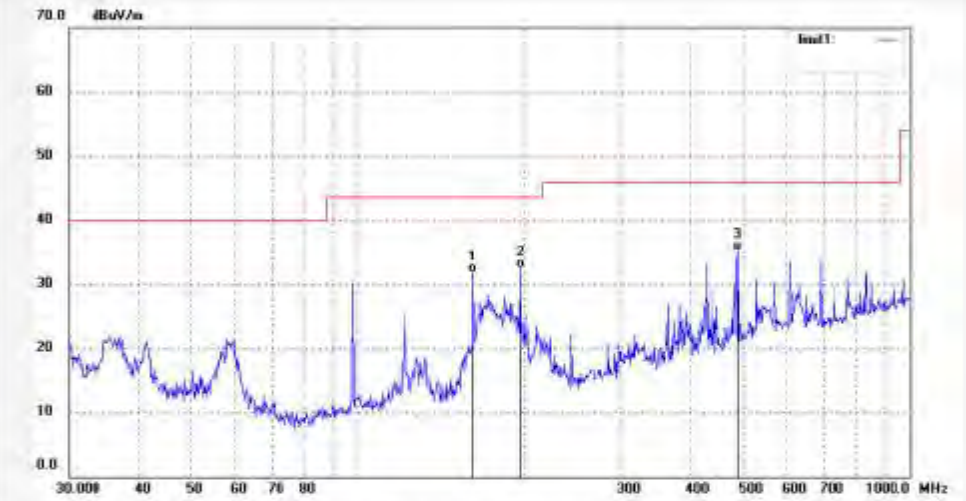
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	196.5098	45.54	-13.47	32.07	43.50	-11.43	QP			
2	487.3150	42.07	-6.23	35.84	46.00	-10.16	QP			
3	607.7866	39.47	-3.84	35.63	46.00	-10.37	QP			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1390	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/31/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: FM 98.1MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	162.0414	47.25	-15.52	31.73	43.50	-11.77	QP			
2	196.5098	45.95	-13.47	32.48	43.50	-11.02	QP			
3	487.3150	41.50	-6.23	35.27	46.00	-10.73	QP			

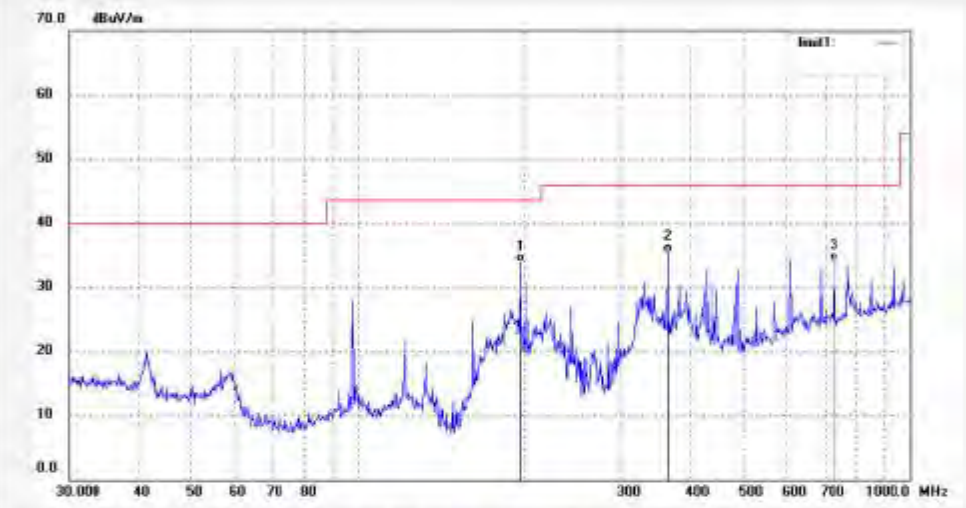
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port,Keyuan Rd.
Science & Industry Park,Nanshan,Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #1391
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%): 23 C / 48 %
EUT: CD Shelf System with Bluetooth
Mode: FM 98.1MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/31/
Time:
Engineer Signature:
Distance: 3m

Note:



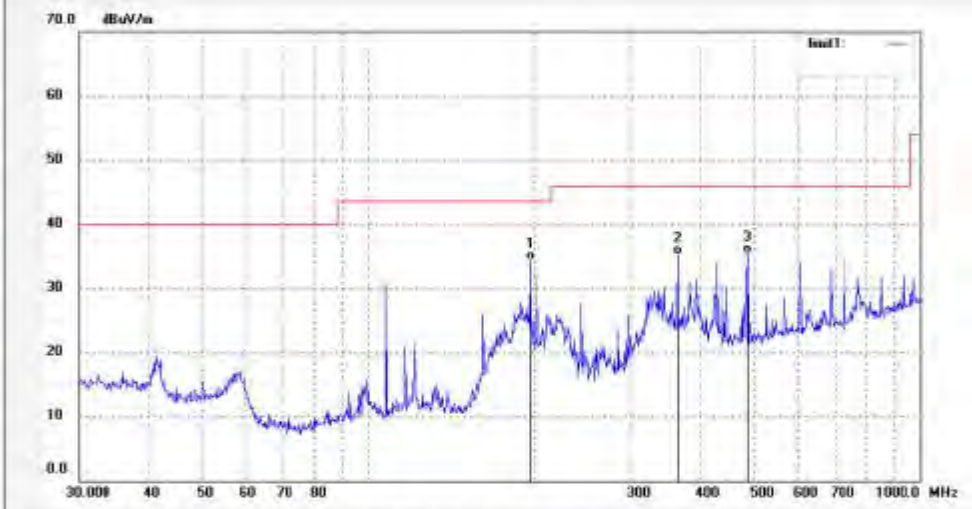
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	196.5098	47.28	-13.47	33.81	43.50	-9.69	QP			
2	364.2595	44.02	-8.57	35.45	46.00	-10.55	QP			
3	729.3582	36.46	-2.36	34.10	46.00	-11.90	QP			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1392	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/31/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: FM 107.9MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD	

Note:



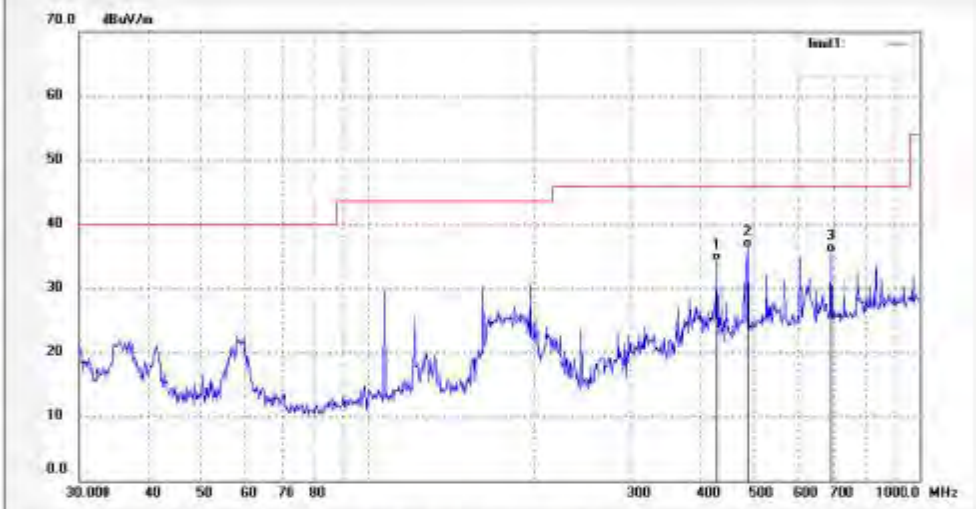
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	196.5098	47.88	-13.47	34.41	43.50	-9.09	QP			
2	364.2595	43.78	-8.57	35.21	46.00	-10.79	QP			
3	487.3150	41.64	-6.23	35.41	46.00	-10.59	QP			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1393	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/31/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: FM 107.9MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

Note:



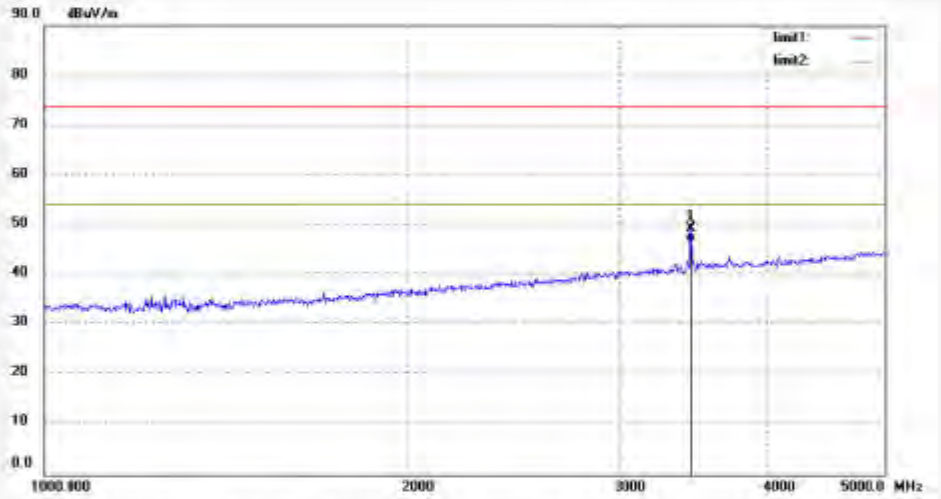
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	428.0192	41.28	-7.09	34.19	46.00	-11.81	QP			
2	487.3149	42.50	-6.23	36.27	46.00	-9.73	QP			
3	689.5643	38.54	-2.92	35.62	46.00	-10.38	QP			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1394	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/31/
Temp.(C)/Hum.(%) 23 C / 46 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: FM 107.9MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD	

Note:



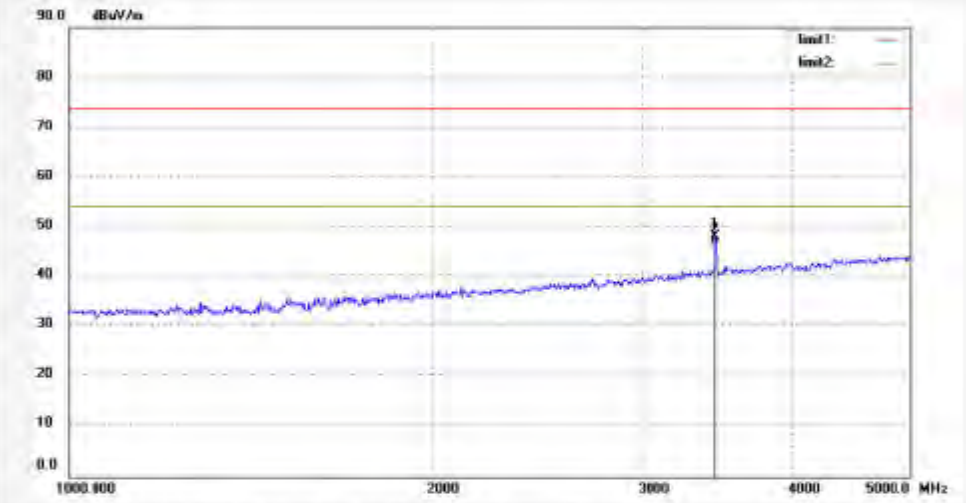
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	3453.077	52.80	-3.43	49.37	74.00	-24.63	peak			
2	3453.077	50.21	-3.43	46.78	54.00	-7.22	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1395	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/31/
Temp.(C)/Hum.(%) 23 C / 46 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: FM 107.9MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD	

Note:



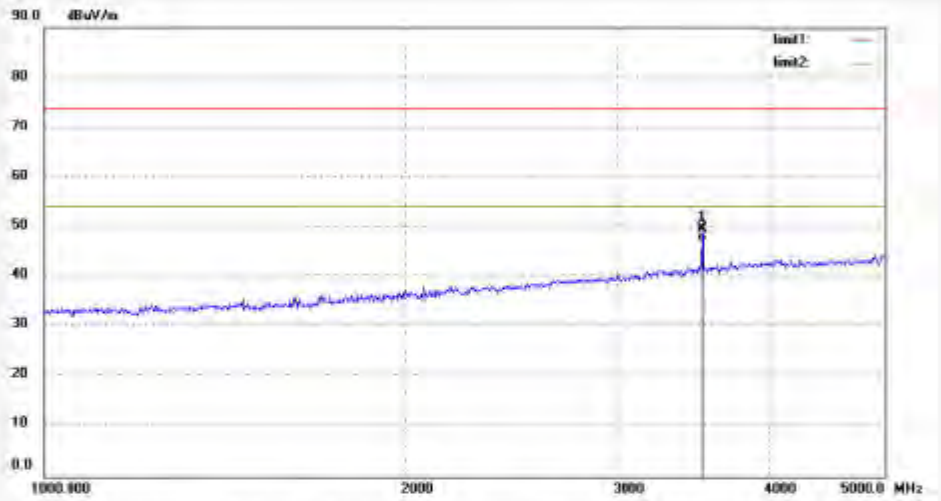
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	3453.082	51.64	-3.47	48.17	74.00	-25.83	peak			
2	3453.082	49.85	-3.47	46.38	54.00	-7.62	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1396	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/31/
Temp.(°C)/Hum.(%) 23 °C / 46 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: FM 98.1MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD	

Note:



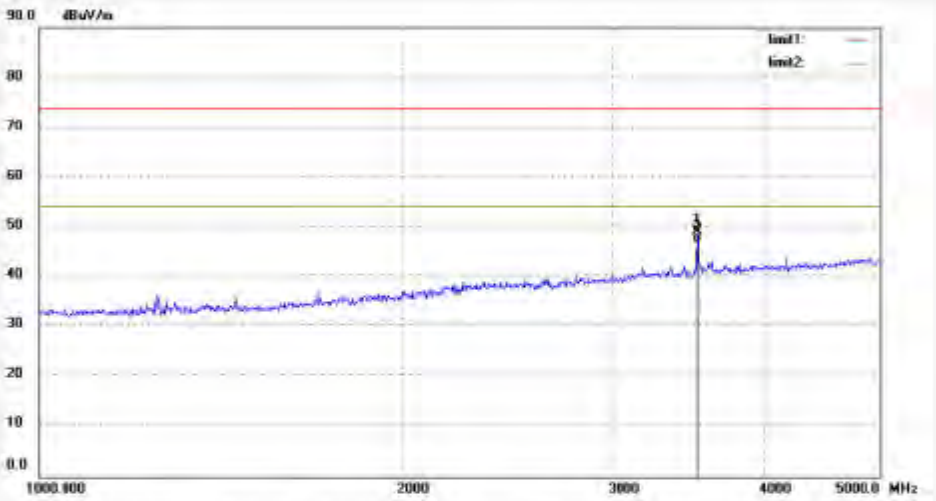
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	3527.040	52.74	-3.02	49.72	74.00	-24.28	peak			
2	3527.040	50.17	-3.02	47.15	54.00	-6.85	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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: Ian2015-2 #1397	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/31/
Temp.(C)/Hum.(%) 23 C / 46 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: FM 98.1MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD	

Note:



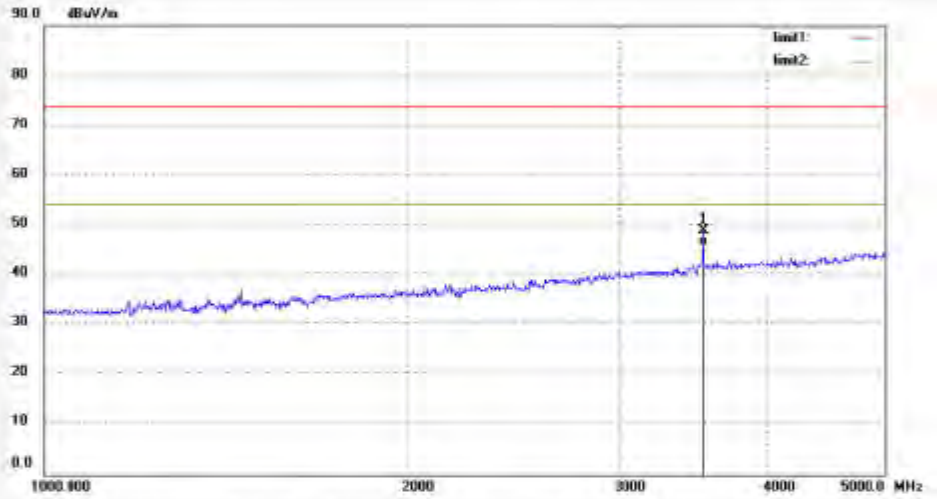
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	3527.031	52.13	-3.02	49.11	74.00	-24.89	peak			
2	3527.031	49.85	-3.02	46.83	54.00	-7.17	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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.: Ian2015-2 #1398	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test Item: Radiation Test	Date: 15/07/31/
Temp.(C)/Hum.(%) 23 C / 46 %	Time:
EUT: CD Shelf System with Bluetooth	Engineer Signature:
Mode: FM 88.1MHz	Distance: 3m
Model: NS-SH513	
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO.,LTD	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	3529.210	51.87	-3.01	48.86	74.00	-25.14	peak			
2	3529.210	46.96	-3.01	45.95	54.00	-8.05	AVG			

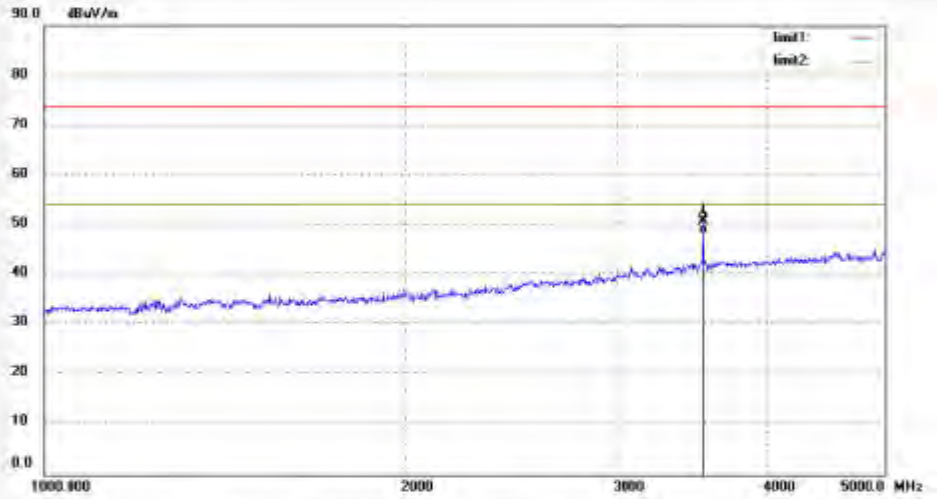
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port,Keyuan Rd.
Science & Industry Park,Nanshan,Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No: Ian2015-2 #1399
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 46 %
EUT: CD Shelf System with Bluetooth
Mode: FM 88.1MHz
Model: NS-SH513
Manufacturer: DONGGUAN ALLLIKE ELECTRONICS CO., LTD

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/07/31/
Time:
Engineer Signature:
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	3529.244	53.80	-3.01	50.79	74.00	-23.21	peak			
2	3529.244	51.23	-3.01	48.22	54.00	-5.78	AVG			