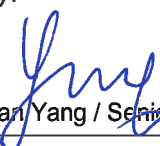


Prüfbericht-Nr.: <i>Test report No.:</i>	50051019 001	Auftrags-Nr.: <i>Order No.:</i>	164068254	Seite 1 von 34 <i>Page 1 of 34</i>
Kunden-Referenz-Nr.: <i>Client reference No.:</i>	N/A	Auftragsdatum: <i>Order date.:</i>	06.07.2016	
Auftraggeber: <i>Client:</i>	Anfair Electronics Plastic Factory 182 Qingzhang Road, Chang Shan Tou, QingXi Town, Dongguan, China			
Prüfgegenstand: <i>Test item:</i>	Bluetooth Receiver Kit			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	NS-MBTK35, NS-MBTK35-C (INSIGNIA)			
Auftrags-Inhalt: <i>Order content:</i>	FCC and IC approval			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 2.1093 FCC KDB Publication 447498 D01 v06 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 6 January 2016 RSS-102 Issue 5 March 2015			
Wareneingangsdatum: <i>Date of receipt:</i>	06.07.2016	Please refer to photo documents		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000389816-001 A000389816-002			
Prüfzeitraum: <i>Testing period:</i>	16.07.2016 - 27.07.2016			
Ort der Prüfung: <i>Place of testing:</i>	Accurate Technology Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
09.08.2016  Ryan Yang / Senior Project Engineer		09.08.2016  Winnie Hou / Technical Certifier		
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>
Sonstiges / Other:				
FCC ID: 2AEI7MBTK35 IC: 9697A-MBTK35 HVIN: NS-MBTK35				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM 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 EMISSION ON AC MAINS

RESULT: Pass

5.1.13 RADIATED EMISSION

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

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

Appendix A: Test Results of Bluetooth 4.1 (Dual mode) of Conducted Testing

Appendix B: Test Results of Bluetooth 4.1 (Dual mode) of Conducted and Radiated Emission Testing

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, 518057, 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	09.01.2017
Spurious Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Spectrum Analyzer	R&S	FSV40	101495	01.01.2017
Test Receiver	R&S	ESCS30	100307	01.01.2017
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	01.01.2017
Loop Antenna	Schwarzbeck	FMZB1516	1516131	01.01.2017
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	01.01.2017
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	01.01.2017
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	01.01.2017
Pre-Amplifier	R&S	CBLU11835 40-01	3791	01.01.2017
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	01.01.2017
RF Coaxial Cable	SUHNER	N-3m	No.8	01.01.2017
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	01.01.2017
RF Coaxial Cable	SUHNER	N-6m	No.10	01.01.2017
RF Coaxial Cable	RESENBERGER	N-12m	No.11	01.01.2017
50_ Coaxial Switch	Anritsu Corp	MP59B	6200283933	09.01.2017
Conducted Emission on AC Mains				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Test Receiver	R&S	ESCI	26115-010-0027	17.05.2017
L.I.S.N.	R&S	ENV216	101161	17.05.2017
50Ω Coaxial Switch	Anritsu	MP59B	6100175589	17.05.2017

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 basis using in house standards or comparisons.

2.5 Measurement Uncertainty

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

Item		Extended Uncertainty
Conducted Emission		± 2.0 dB
Radiated Emission (9kHz-30MHz)	Field strength (dB μ V/m)	U=3.08dB, k=2, σ =95%
Radiated Emission (30-1000MHz)	Field strength (dB μ V/m)	U=4.42dB, k=2, σ =95%
Radiated Emission (above 1000MHz)	Field strength (dB μ V/m)	U=4.06dB, k=2, σ =95%
Radio Spectrum		± 0.60 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B 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 Material Port Keyuan Rd., Science & Industry Park, Nanshan 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 a 'Bluetooth Receiver Kit' device. It supports Bluetooth 4.1 (Dual mode) wireless technology.

According to the declaration of the applicant, the electrical circuit design, PCB layout and components used are identical for all models, only the model No. and appearance are different.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Bluetooth Receiver Kit
Type Designation	NS-MBTK35, NS-MBTK35-C
Trade Mark	INSIGNIA
FCC ID	2AEI7MBTK35
IC	9697A-MBTK35
HVIN	NS-MBTK35
Operating Frequency	2402 - 2480 MHz
Operating Temperature Range	-10 °C ~ +70 °C
Operating Voltage	DC 3.7V via internal rechargeable lithium battery DC 5.0V via USB port for charging
Testing Voltage	DC 3.7V via internal rechargeable lithium battery DC 5.0V via USB port for charging
Type of Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Channel Number	BDR & EDR mode:79 channels; Low Energy mode:40 channels
Channel Separation	BDR & EDR mode:1MHz; Low Energy mode:2MHz
Wireless Technology	Bluetooth 4.1 (Dual mode)
Antenna Type	PCB Antenna
Antenna Gain	-0.60 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

Table 5: Frequency Hopping Information

Technical Specification	Description
Hopping Range	Hereby we declare that the frequency range of this device is: 2402-2480MHz. This is according the Bluetooth Core Specification V2.1 + EDR for devices which will be operated in the USA. This was checked during the Bluetooth Qualification tests (Test Case: TRM/CA/04-E).
Hopping Sequence	Example of a 79 hopping sequence in data mode: 33,04,21,44,23,42,53,46,55,48,40,59,72,29,76,31,08,73,07,75,09,45,60,39,58,13,47,11,77,52,35,50,65,54,67,56,69,62,71,64, 7,25,27,66,57,70,74,61,78,63,10,41,05,43,15,44,64,68,02,70,06,01,51,03,55,05,03,66,53,49,36,47,
Receiver input bandwidth	The input bandwidth of the receiver is 1MHz. In every connection one Bluetooth device is the master and the other one is the slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings. Repeating of a packer has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Bluetooth transmitting mode (BDR & EDR mode)
 - a) Low Channel
 - b) Middle Channel
 - c) High Channel
 - 2. Bluetooth transmitting mode (Low Energy mode)
 - a) Low Channel
 - b) Middle Channel
 - c) High Channel
- B. On, Transmitting on Hopping channel
- C. On, Bluetooth connecting mode
- D. Charging mode
- E. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|----------------------------------|-------------------------|
| - Application Form | - Operation Description |
| - Block Diagram | - Photo Document |
| - FCC/IC Label and Location Info | - Schematics |
| - Model Difference Letter | - User Manual |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013 and ANSI C63.4: 2014

According to clause 3.1, all tests were performed on model NS-MBTK35 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Notebook PC	Lenovo	ThinkPad X240	N/A	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

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

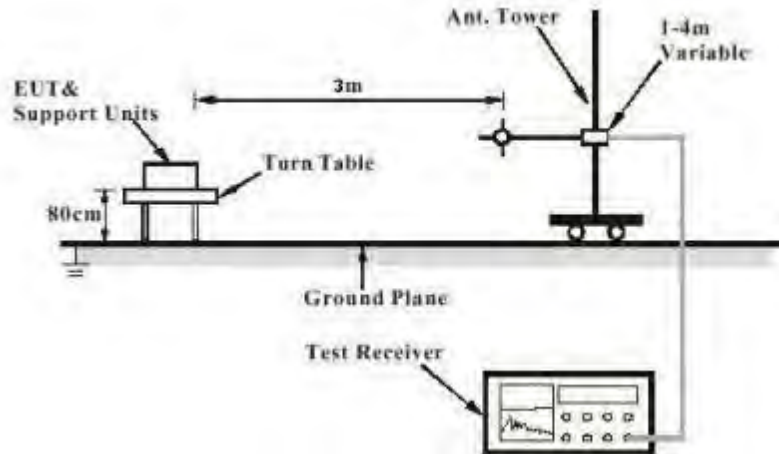


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

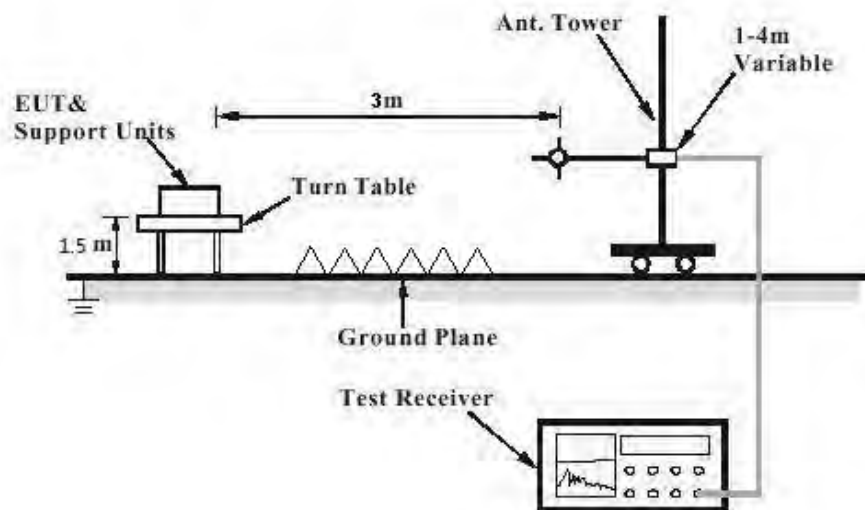


Diagram of Measurement Configuration for Mains Conduction Measurement

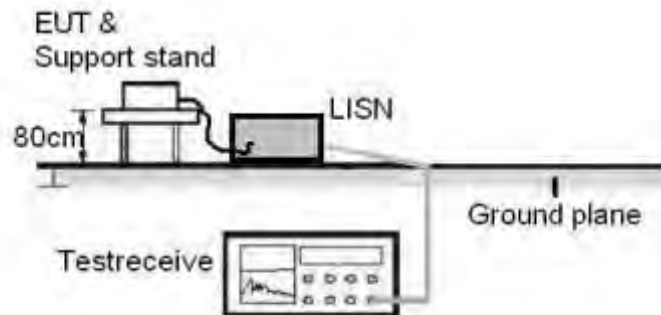
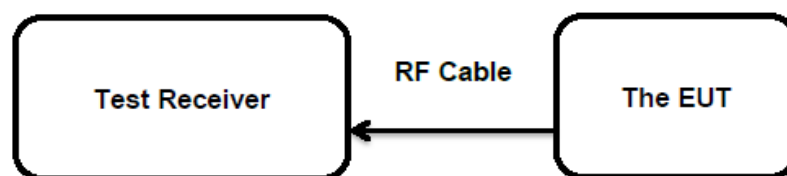


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is -0.60 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.

Refer to EUT Photo for further details.

5.1.2 Maximum 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	: FHSS < 0.125 Watts, DSSS < 1.0 Watts
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 16.07.2016 & 27.07.2016
Input voltage	: DC 3.7V via internal rechargeable lithium battery
Operation mode	: A.1, A.2
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Table 7: Test Result of Maximum Peak Conducted Output Power

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BDR	2402	2.97	0.00198	< 0.125
	2441	4.22	0.00264	
	2480	5.45	0.00351	
EDR	2402	4.63	0.00290	< 0.125
	2441	5.77	0.00378	
	2480	5.93	0.00392	
Low Energy	2402	-3.41	0.00046	< 1.0
	2440	-1.95	0.00064	
	2480	-0.59	0.00087	
Maximum Measured Value		5.93	0.00392	/

Note: The cable loss 0.4 dB is taken into account in results.

This testing was carried out on all operation modes, but only the worst case was presented in this report.

For the measurement records, refer to the appendix A.

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	: 16.07.2016
Input voltage	: DC 3.7V via internal rechargeable lithium battery
Operation mode	: A.2
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

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

Test Mode	Test Channel (MHz)	Power Spectrum Density(dBm/3kHz)	Limit (dBm/3kHz)
Low Energy	2402	-19.37	< 8.0
	2440	-18.35	
	2480	-16.07	
Maximum Measured Value		-16.07	

Note: The cable loss 0.4 dB is taken into account in results.

This testing was carried out on all operation modes, but only the worst case was presented in this report.

For the measurement records, refer to the appendix A.

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 : 16.07.2016
Input voltage : DC 3.7V via internal rechargeable lithium battery
Operation mode : A.2
Test channel : Low / Middle / High
Ambient temperature : 25 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

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

Test Mode	Test Channel (MHz)	-6dB Bandwidth (kHz)	Limit (kHz)
Low Energy	2402	764.10	> 500
	2440	746.70	
	2480	759.80	
Minimum Measured Value		746.70	

For the measurement records, refer to the appendix A.

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 : 16.07.2016
Input voltage : DC 3.7V via internal rechargeable lithium battery
Operation mode : A.1, A.2
Test channel : Low / Middle / High
Ambient temperature : 25 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

Table 10: Test Result of 99% Bandwidth

Test Mode	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)
BDR	2402	963.82	/
	2441	963.82	
	2480	972.50	
EDR	2402	1224.31	/
	2441	1232.99	
	2480	1246.02	
Low Energy	2402	1076.70	/
	2440	1085.38	
	2480	1081.04	
Maximum Measured Value		1246.02	/

For the measurement records, refer to the appendix A.

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	: 16.07.2016
Input voltage	: DC 3.7V via internal rechargeable lithium battery
Operation mode	: A.1, A.2
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

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

For the measurement records, refer to the appendix A.

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 & Table 5
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 16.07.2016
Input voltage	: DC 3.7V via internal rechargeable lithium battery
Operation mode	: A.1, A.2
Test channel	: Low / Middle / High
Ambient temperature	: 23 °C
Relative humidity	: 48 %
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 B.

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 : 16.07.2016

Input voltage : DC 3.7V via internal rechargeable lithium battery

Operation mode : A.1

Test channel : Low / Middle / High

Ambient temperature : 25 °C

Relative humidity : 56 %

Atmospheric pressure : 101 kPa

Table 11: Test Result of 20dB Bandwidth

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)
BDR	2402	1024.60	683.067	/
	2441	1024.60	683.067	
	2480	1024.60	683.067	
EDR	2402	1289.40	859.600	/
	2441	1297.20	864.800	
	2480	1306.90	871.267	
Maximum Measured Value		1306.90	871.267	/

For the measurement records, refer to the appendix A.

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	: $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 16.07.2016
Input voltage	: DC 3.7V via internal rechargeable lithium battery
Operation mode	: B
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Table 12: 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	1000.0		Pass
Adjacency Channel	2442			
High Channel	2480	1000.0		Pass
Adjacency Channel	2479			

Note:

The limit is maximum $2/3$ of the 20 dB bandwidth: 871.267 KHz.

For the measurement records, refer to the appendix A.

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 : 16.07.2016
Input voltage : DC 3.7V via internal rechargeable lithium battery
Operation mode : B
Ambient temperature : 25 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

Table 13: 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 the appendix A.

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 : 16.07.2016
Input voltage : DC 3.7V via internal rechargeable lithium battery
Operation mode : B
Test channel : Low / Middle / High
Ambient temperature : 25 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

Table 14: Test Result of Time of Occupancy

Test Mode	Test Channel	Data Packet	Pulse width (ms)	Measured Dwell time(s)	Limit (s)
BDR mode	2402	DH1	0.420	0.134	< 0.4s
		DH3	1.696	0.271	
		DH5	2.957	0.315	
	2441	DH1	0.413	0.132	
		DH3	1.696	0.271	
		DH5	2.957	0.315	
	2480	DH1	0.420	0.134	
		DH3	1.681	0.269	
		DH5	2.957	0.315	
EDR mode	2402	3DH1	0.428	0.137	
		3DH3	1.703	0.272	
		3DH5	2.949	0.315	
	2441	3DH1	0.428	0.137	
		3DH3	1.688	0.270	
		3DH5	2.971	0.317	
	2480	3DH1	0.420	0.134	
		3DH3	1.688	0.270	
		3DH5	2.949	0.315	
Maximum Measured Value			2.971	0.317	

Note:

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

Period = 0.4 x 79 (channel) = 31.6 seconds

This testing was carried out on all operation modes, but only the worst case was presented in this report.

For the measurement records, refer to the appendix A.

5.1.12 Conducted Emission on AC Mains**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	: 16.07.2016
Input voltage	: DC 5.0V via USB port for charging
Operation mode	: C, D
Earthing	: Not connected
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

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	: 16.07.2016
Input voltage	: DC 5.0V via USB port for charging
Operation mode	: D
Earthing	: Not connected
Ambient temperature	: 24 °C
Relative humidity	: 48 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass****Test Specification**

Test standard : CFR47 FCC Part 2.1093
FCC KDB Publication 447498 D01 v06
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 5.93 dBm $\approx 3.92 \text{ mW}$ $< \frac{3 \cdot d}{\sqrt{f}} = 9.52 \text{ mW}$.

Hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01 General RF Exposure Guidance v06.

The maximum peak output power of the transmitter is 5.93 dBm (3.92 mW), which is far below the SAR exclusion threshold level 4 mW $\approx 6.02 \text{ dBm}$.

Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 5.

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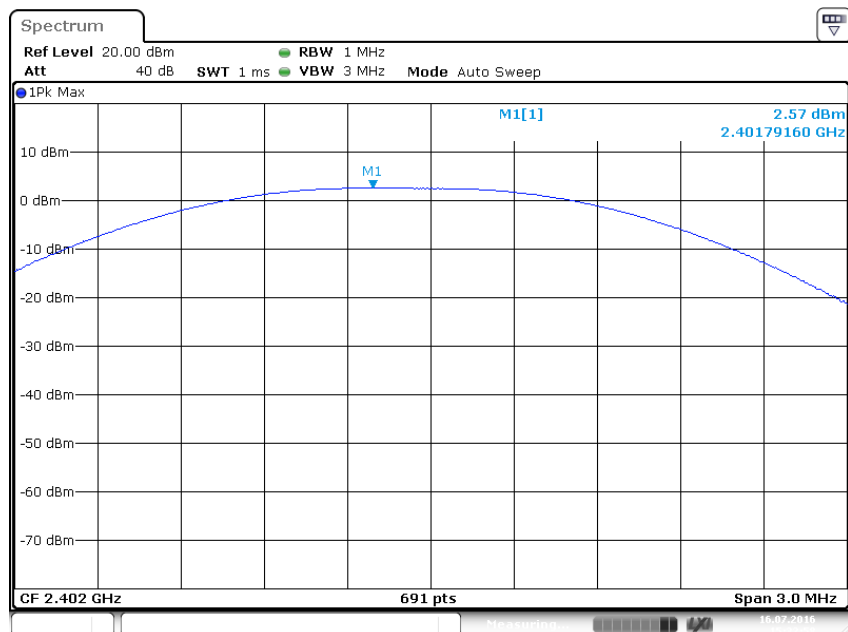
Appendix A

Test Results of Bluetooth 4.1 (Dual mode) of Conducted Testing

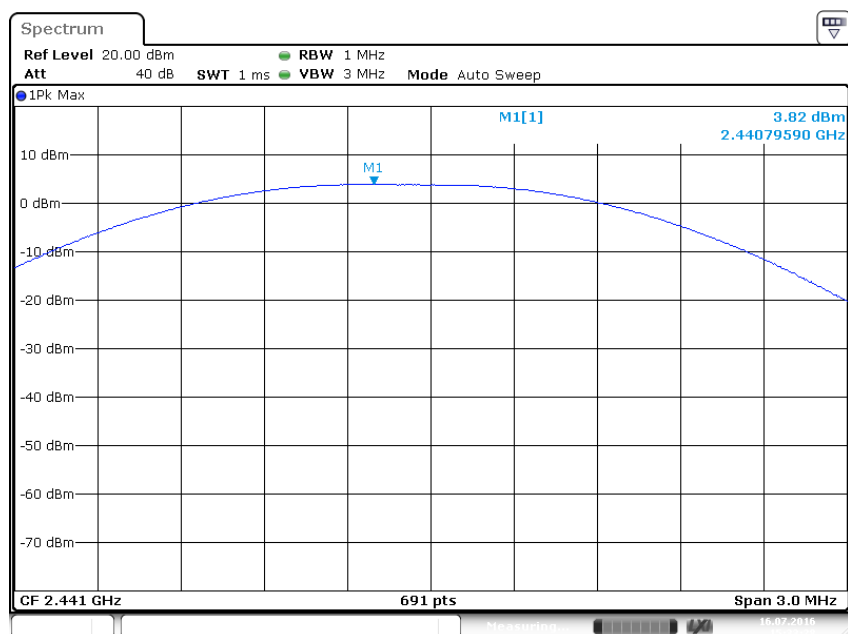
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Appendix A.1: Test Plots of Maximum Peak Conducted Output Power

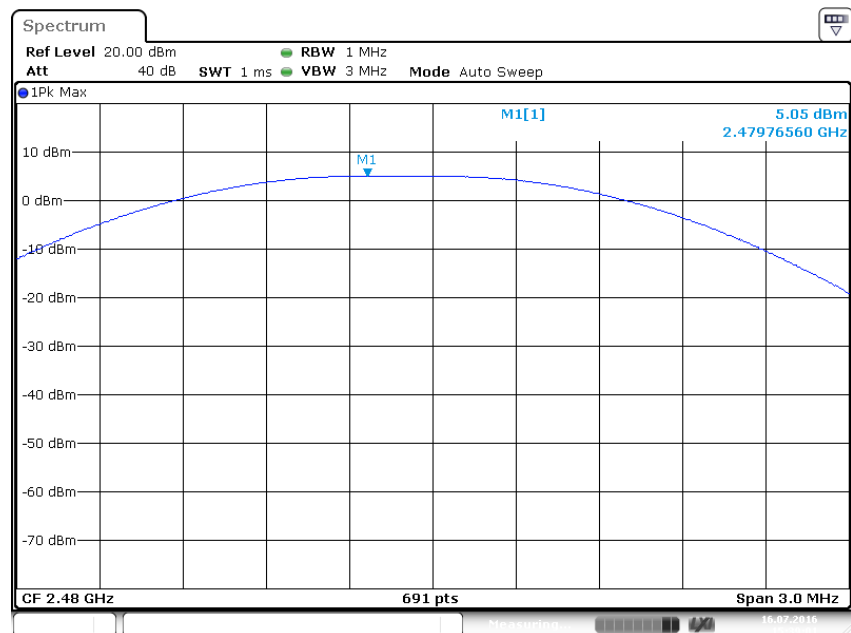
BDR Mode, DH1



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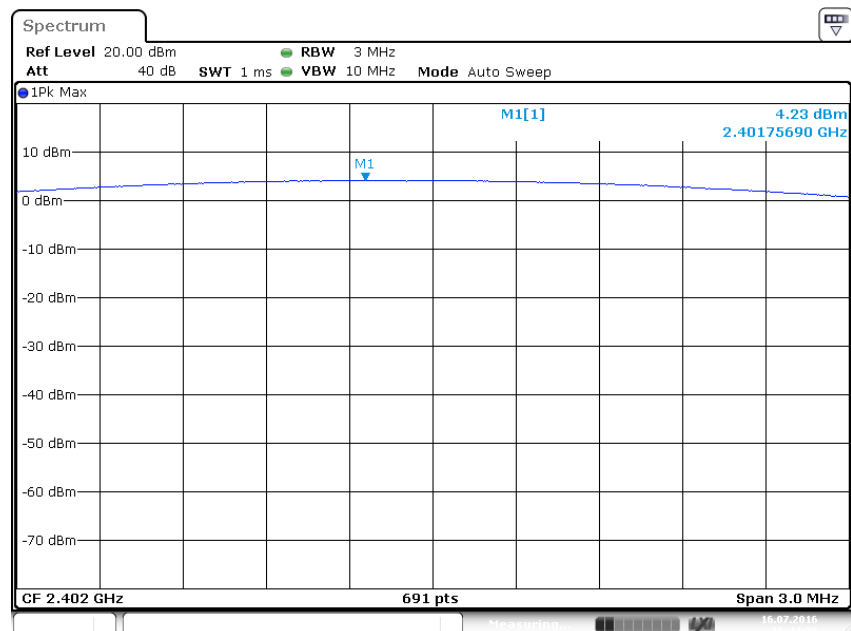


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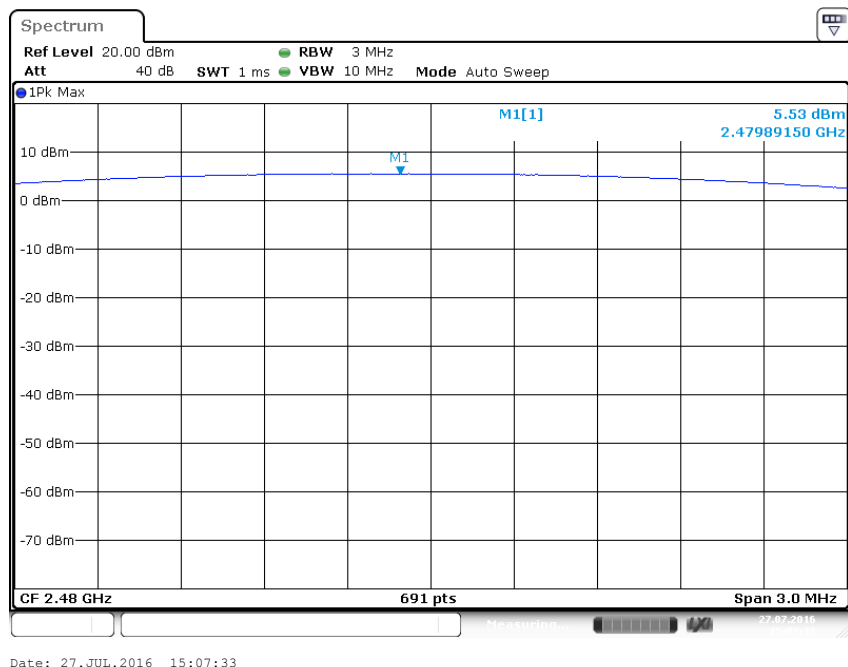
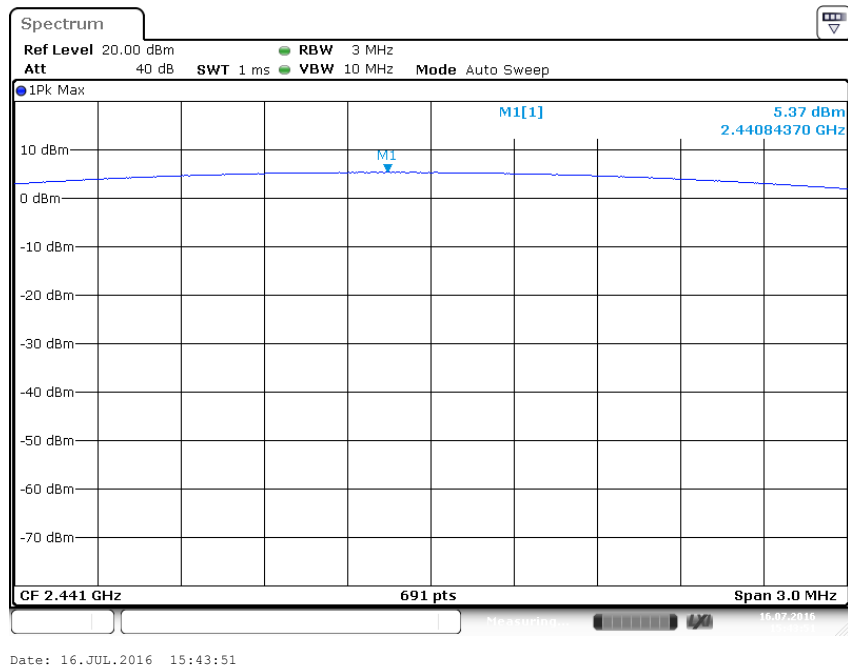


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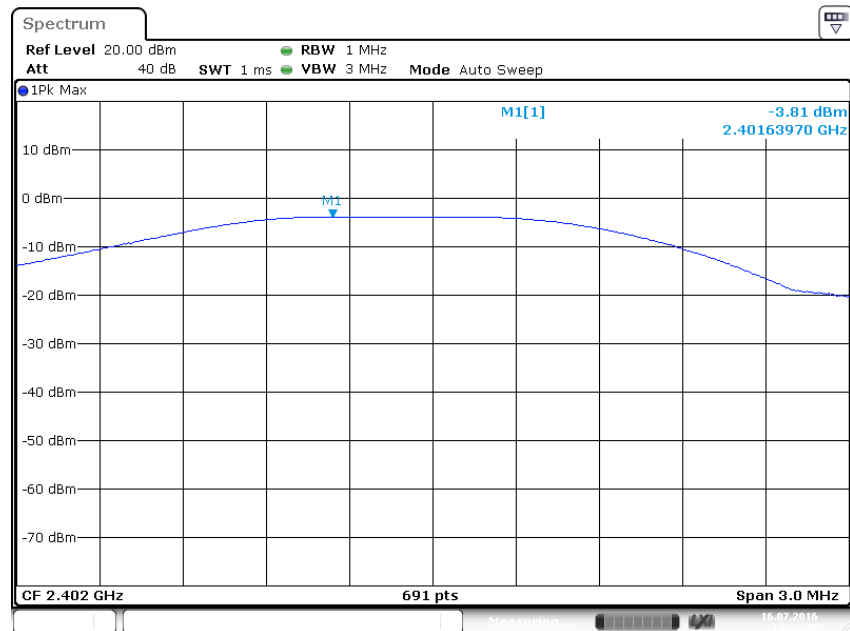
EDR Mode, 3DH1



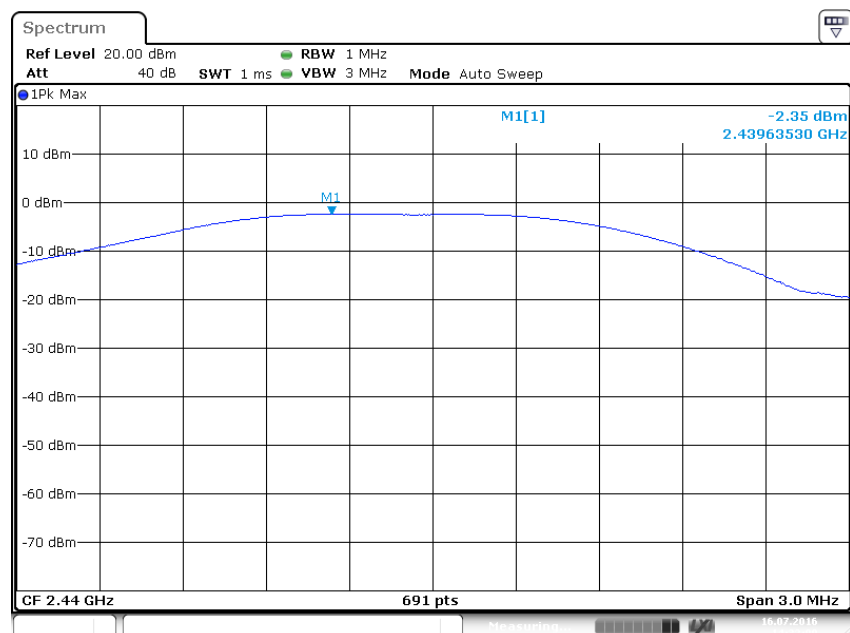
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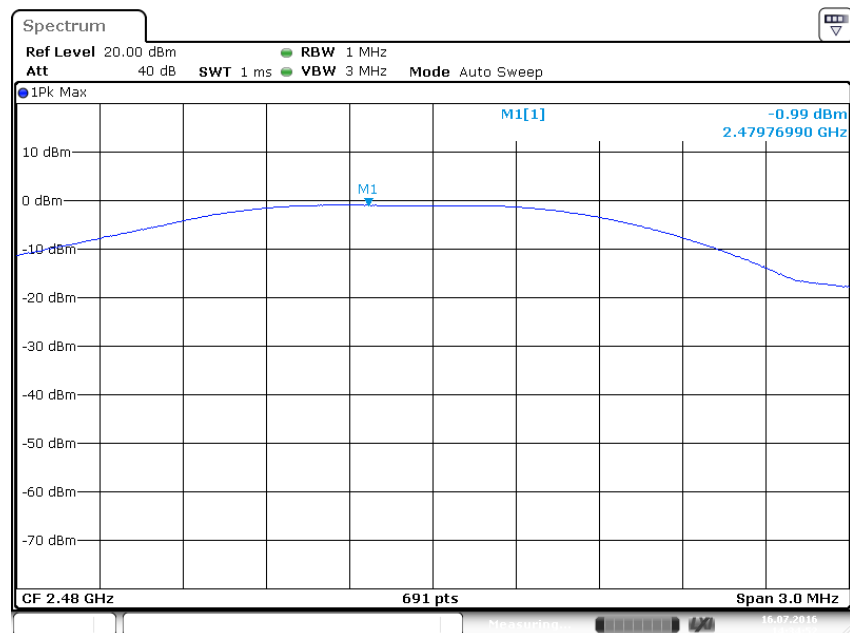
Low Energy Mode



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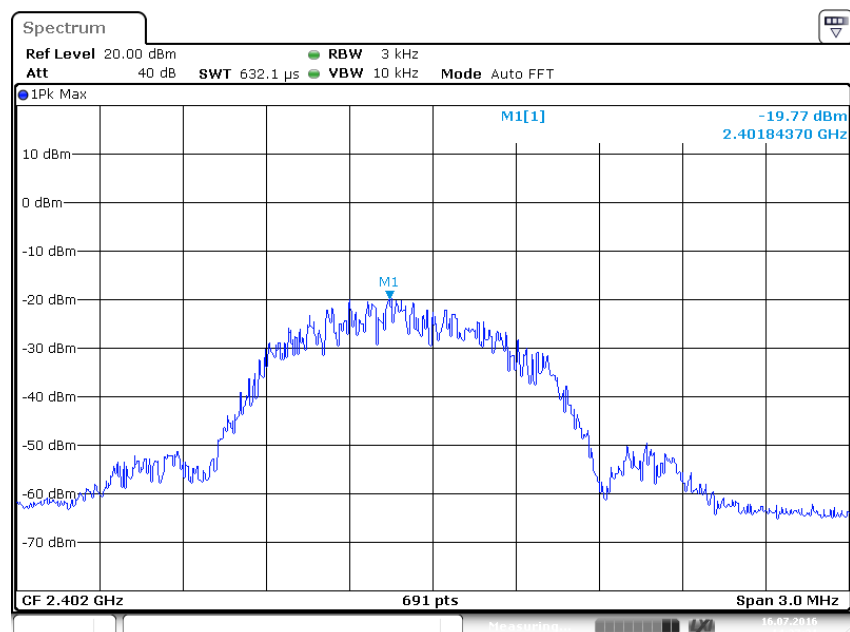
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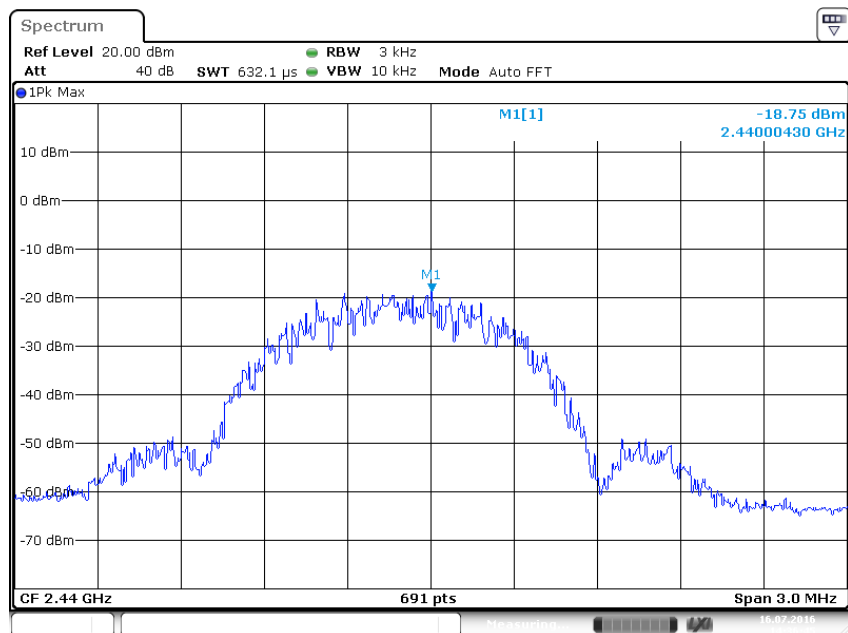
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Appendix A.2: Test Plots of Conducted Power Spectral Density

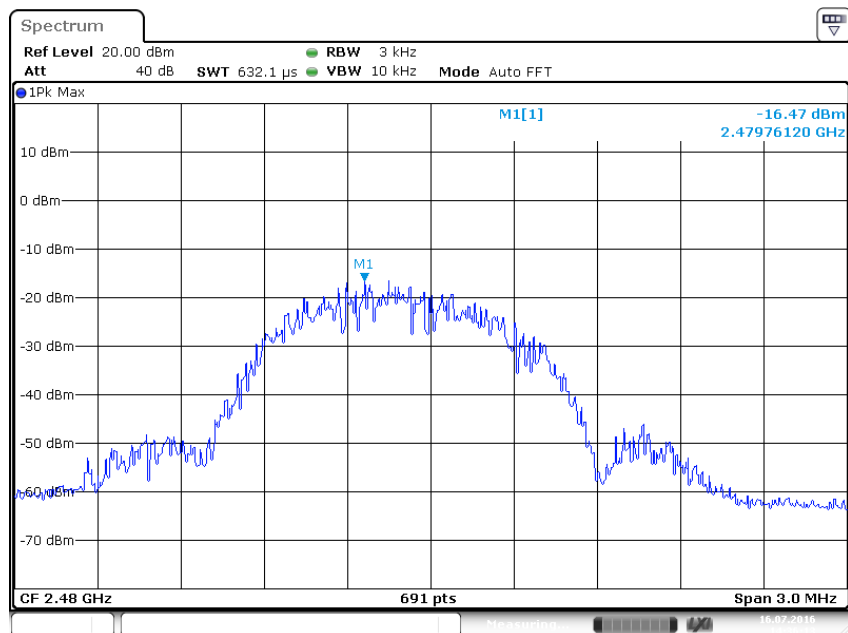
Low Energy Mode



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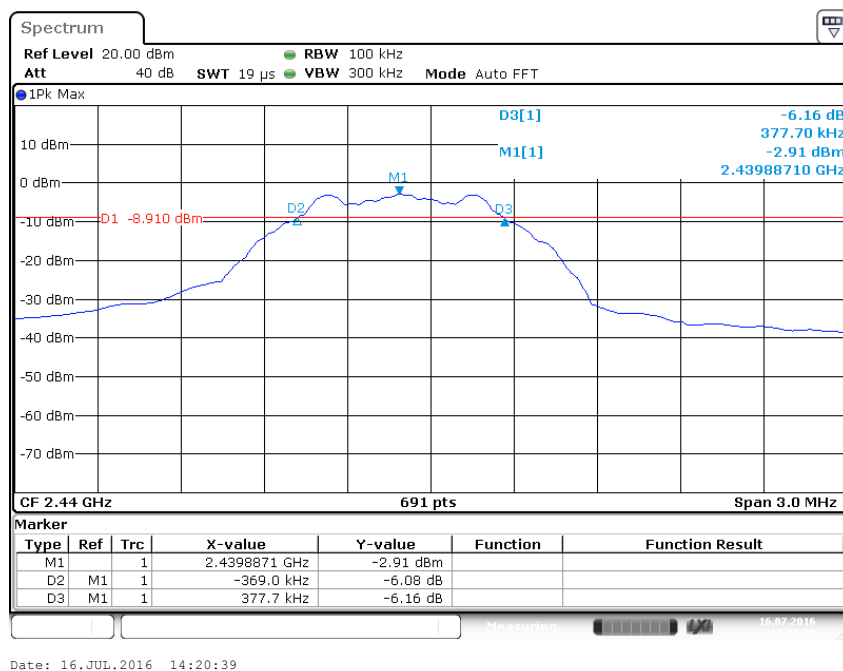
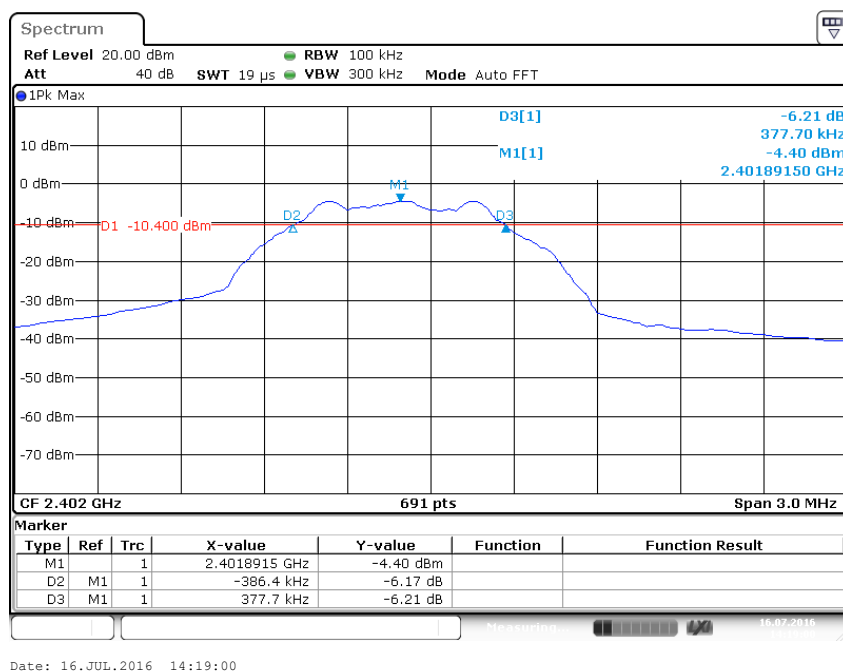
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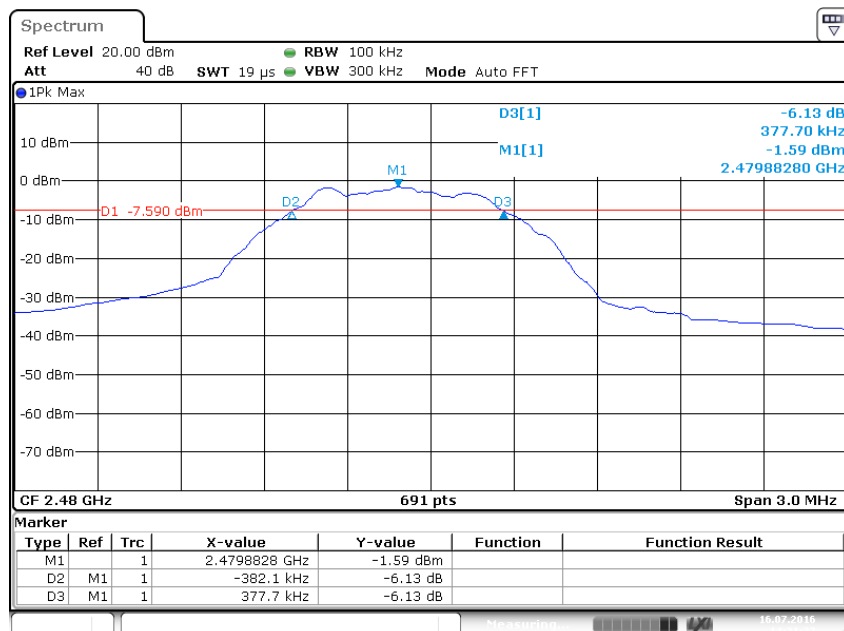


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Appendix A.3: Test Plots of 6dB Bandwidth

Low Energy Mode

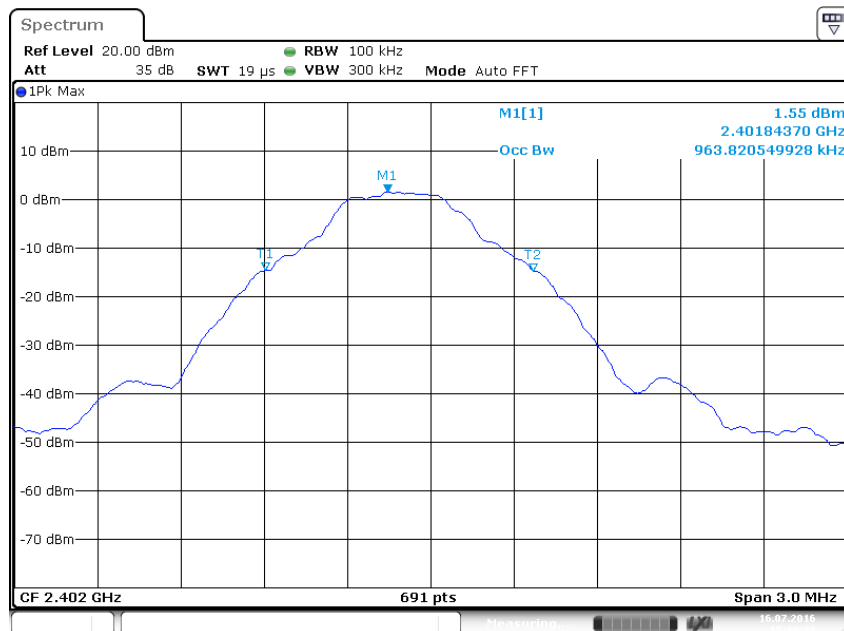




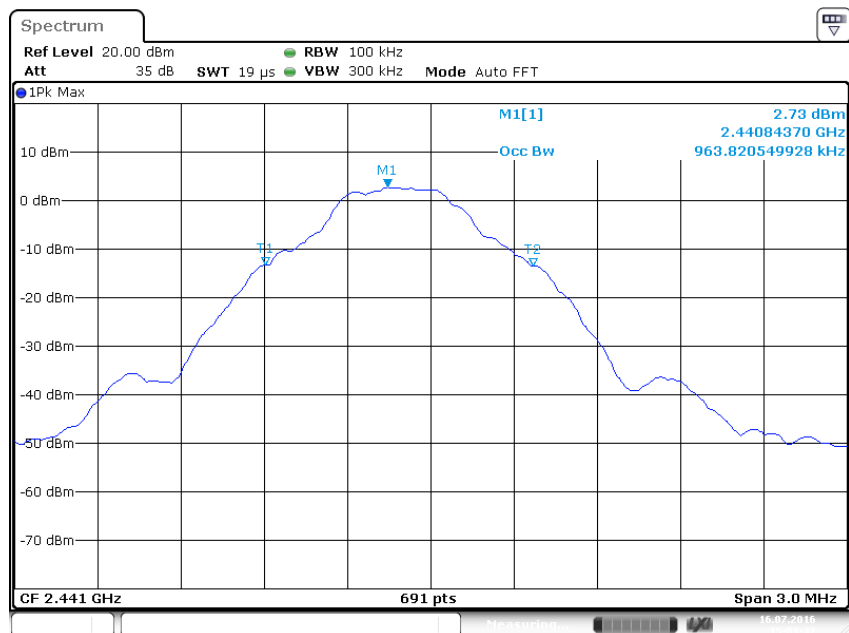
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Appendix A.4: Test Plots of 99% Bandwidth

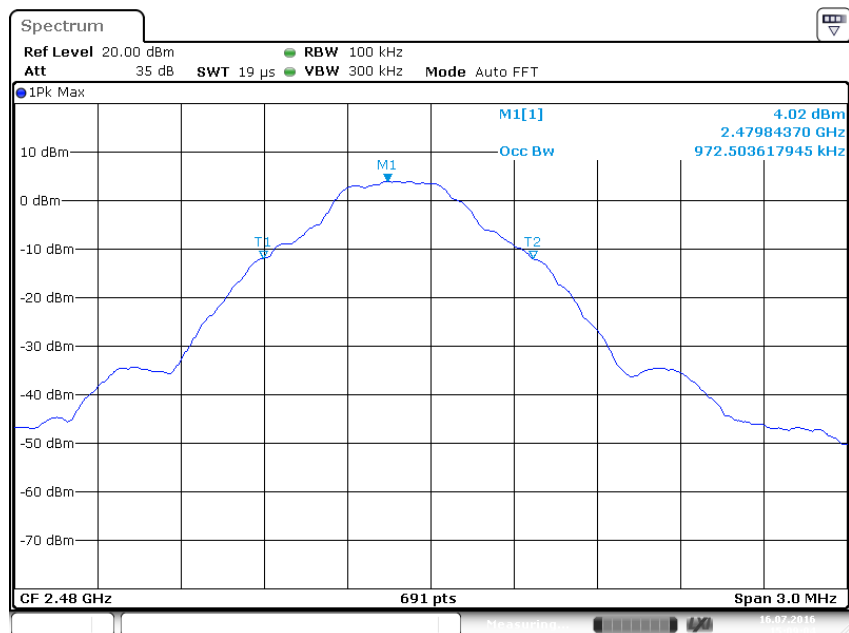
BDR Mode, DH1



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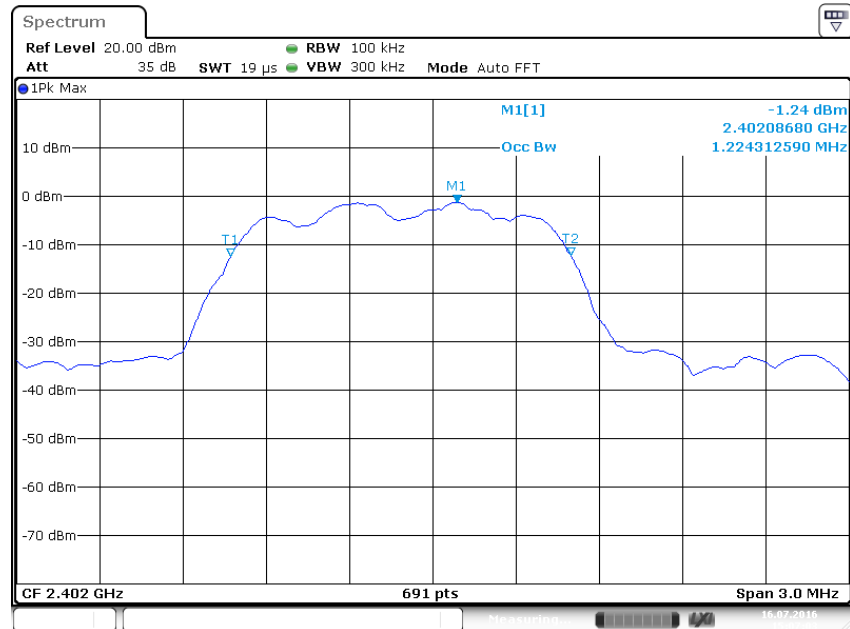


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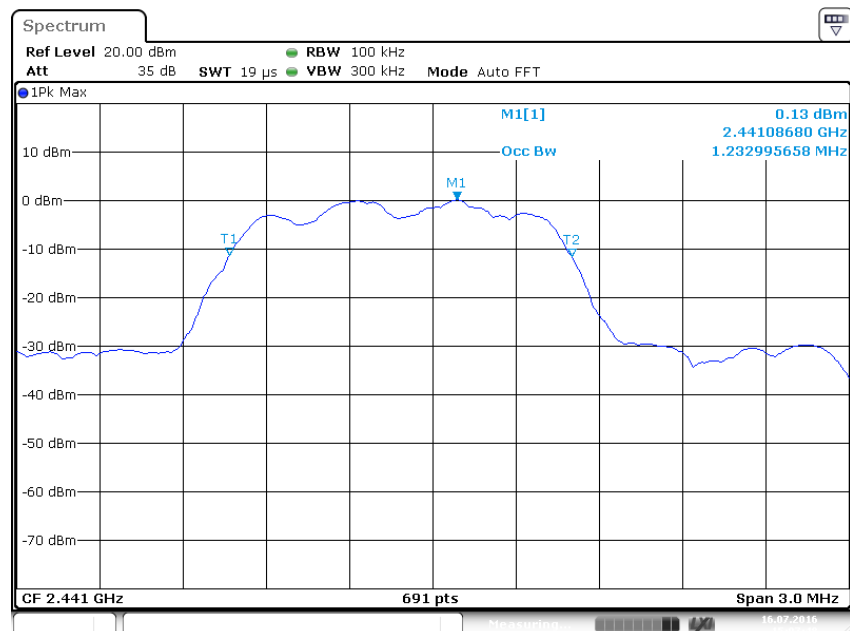


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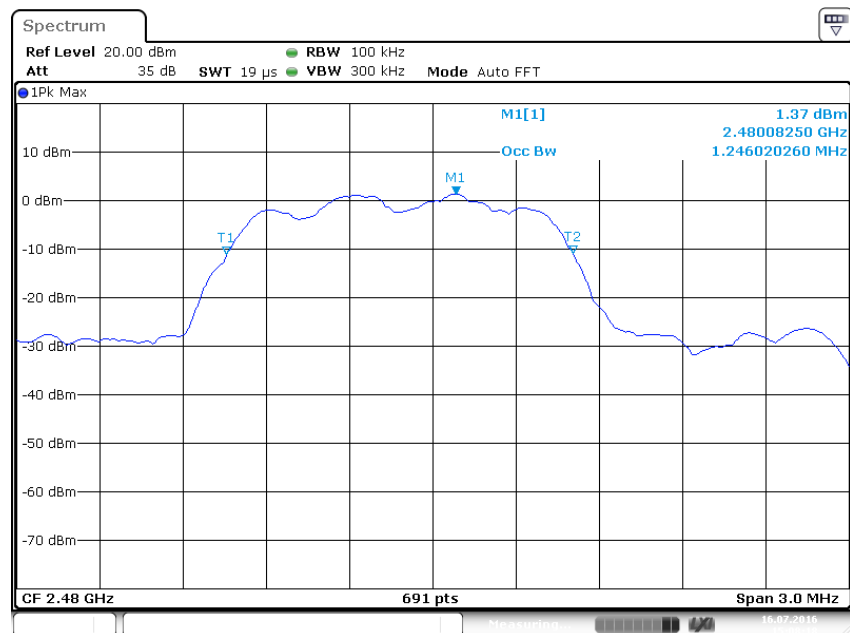
EDR Mode, 3DH1



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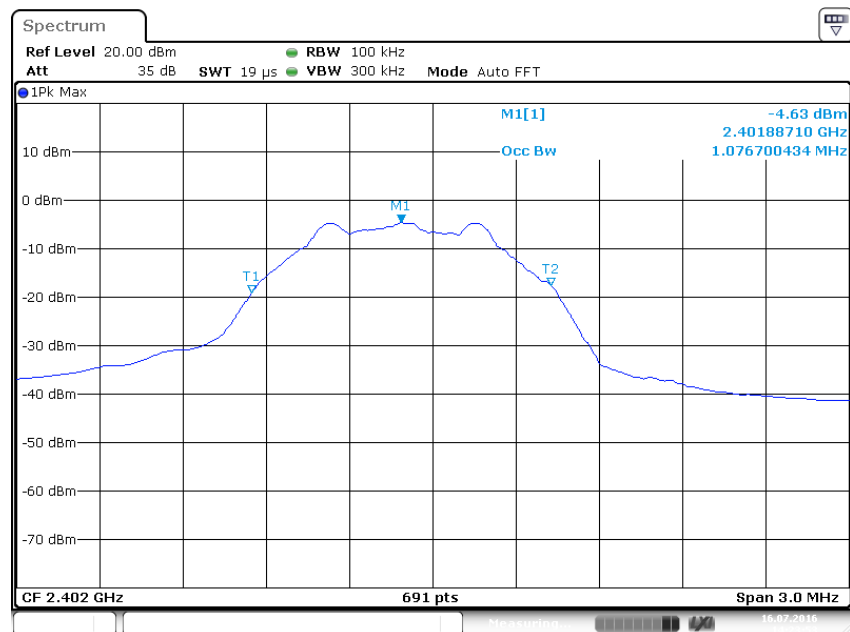


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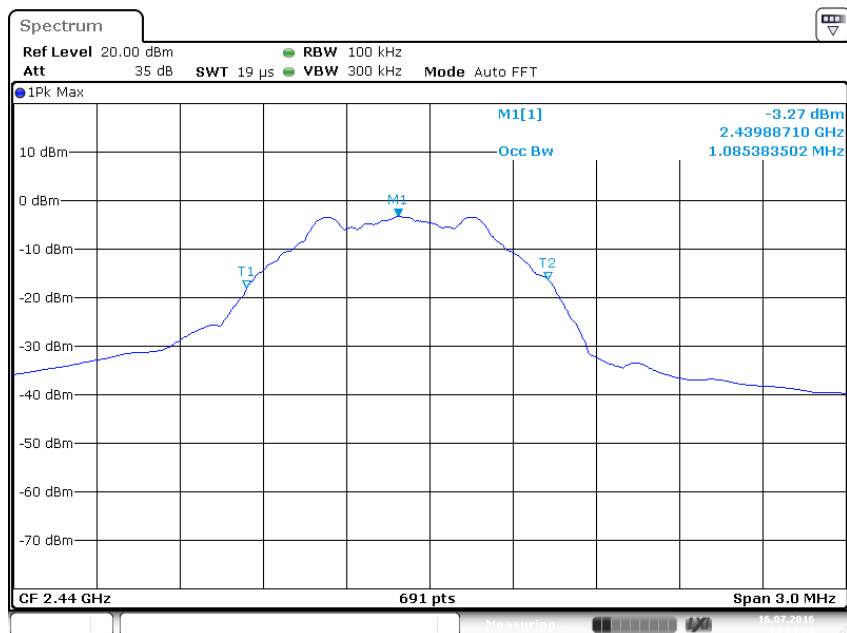


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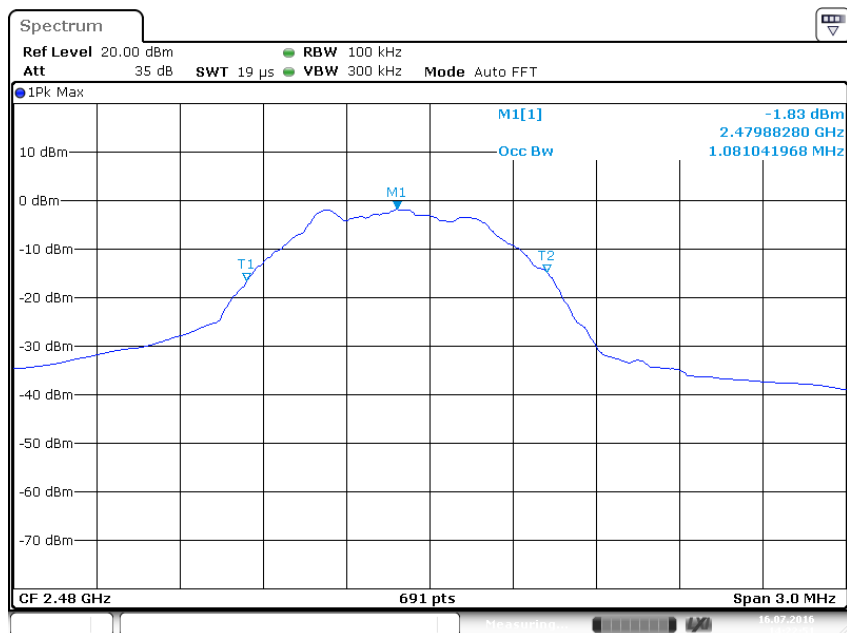
Low Energy Mode



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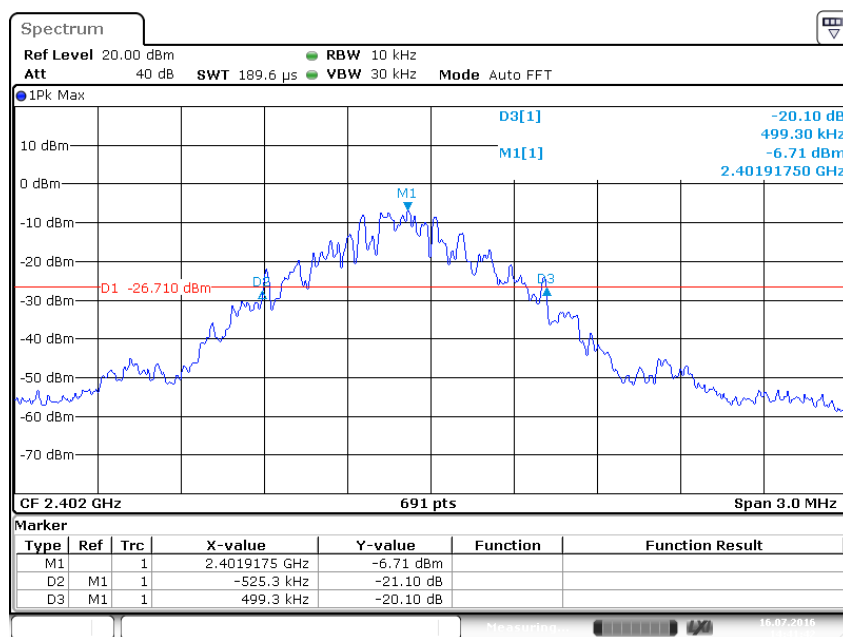
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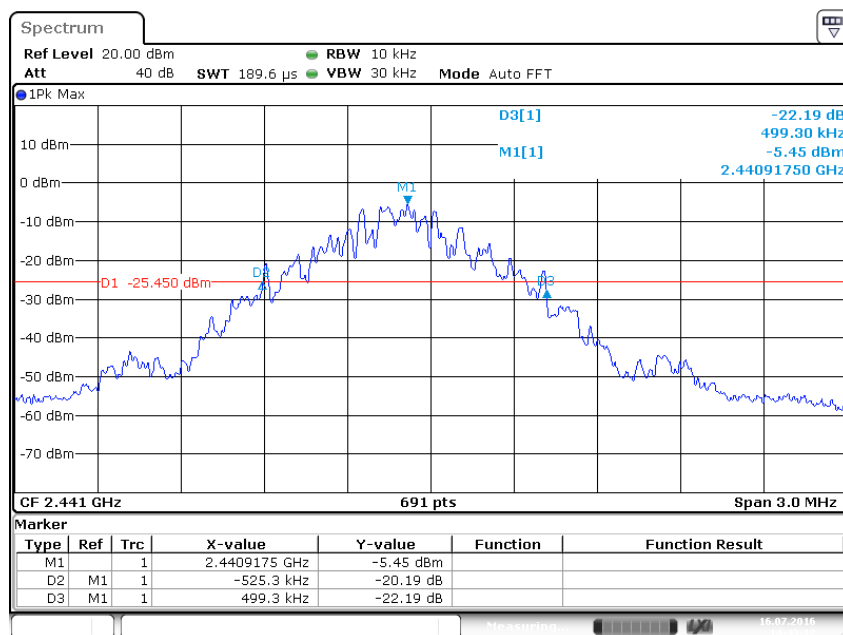
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Appendix A.5: Test Plots of 20dB Bandwidth

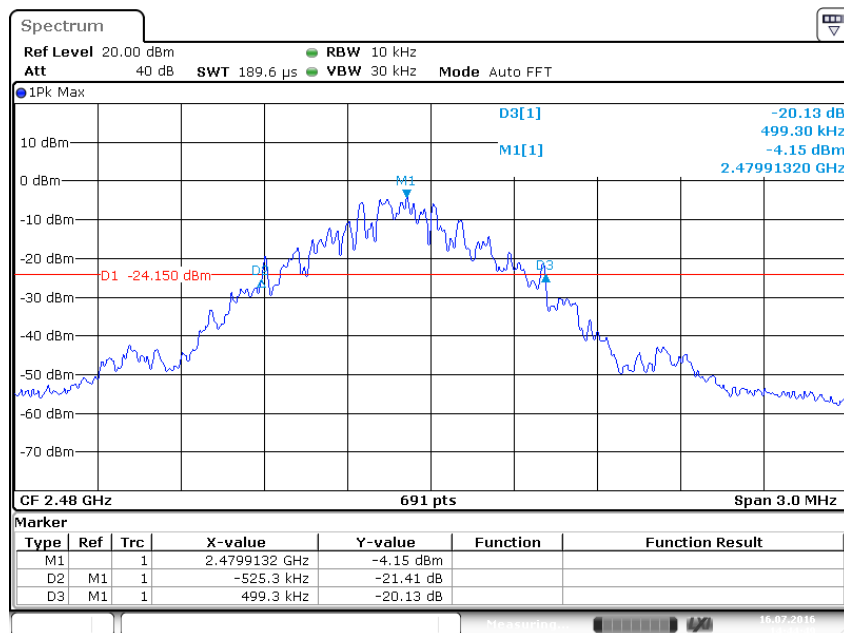
BDR Mode, DH1



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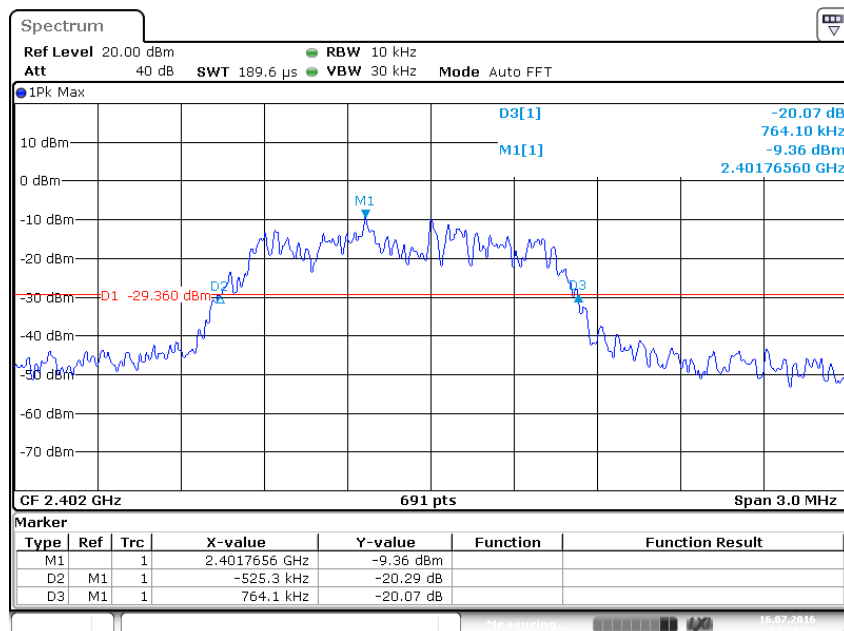


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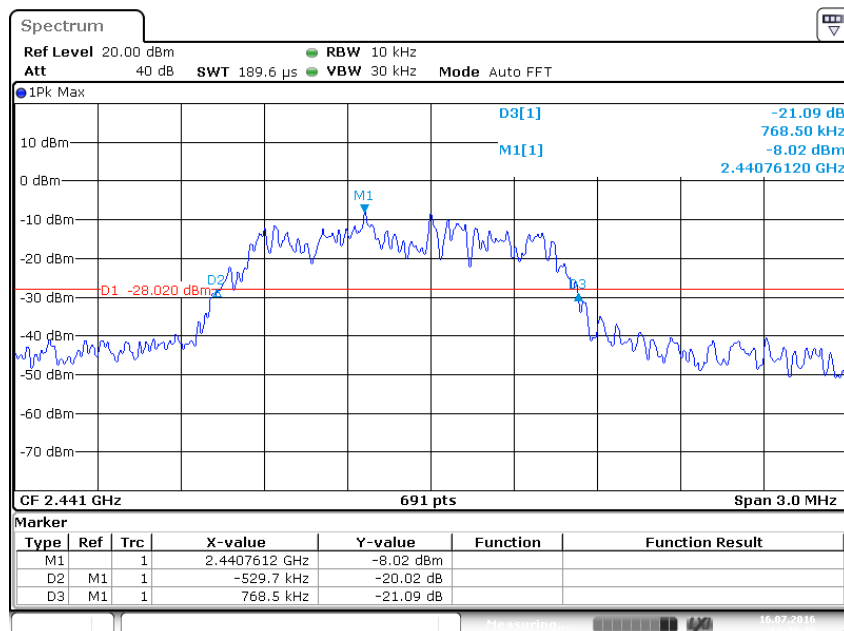


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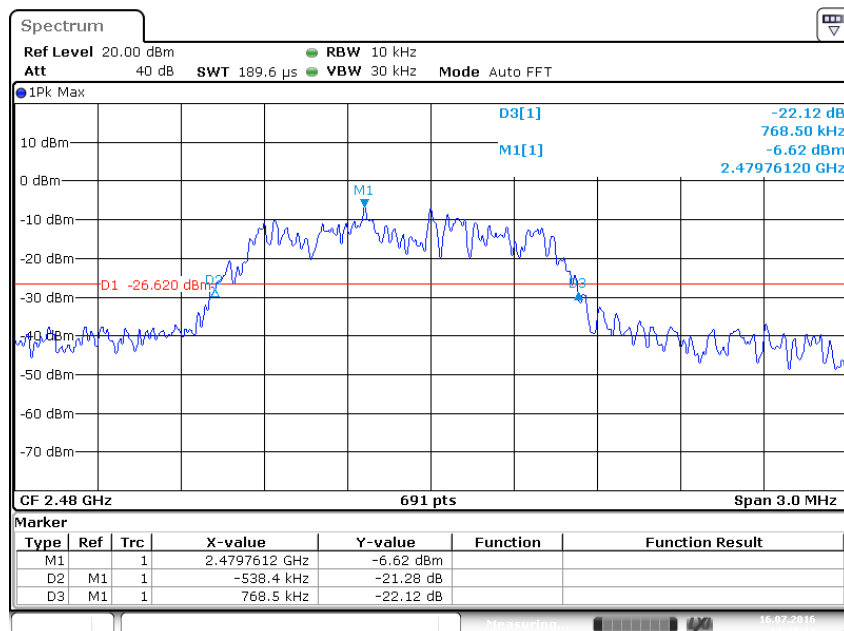
EDR Mode, 3DH1



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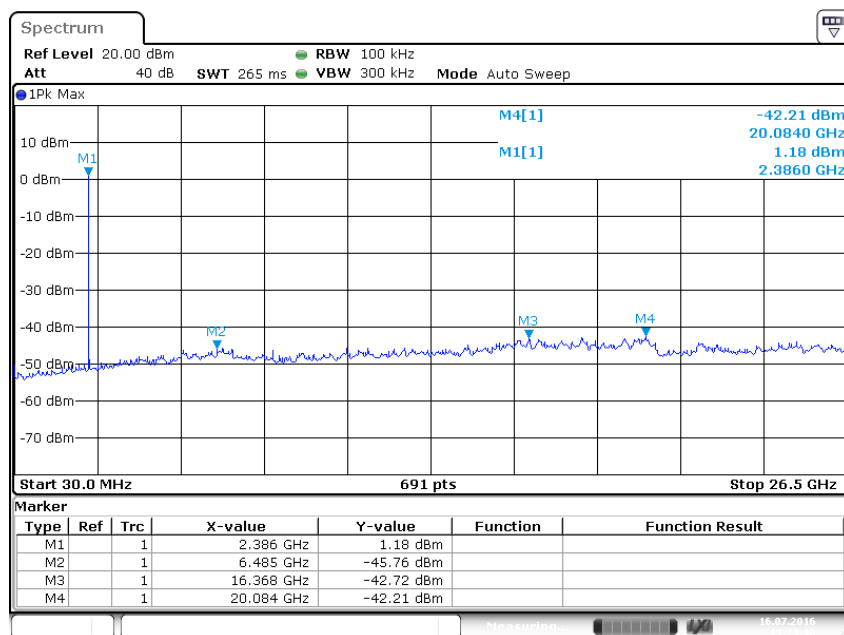
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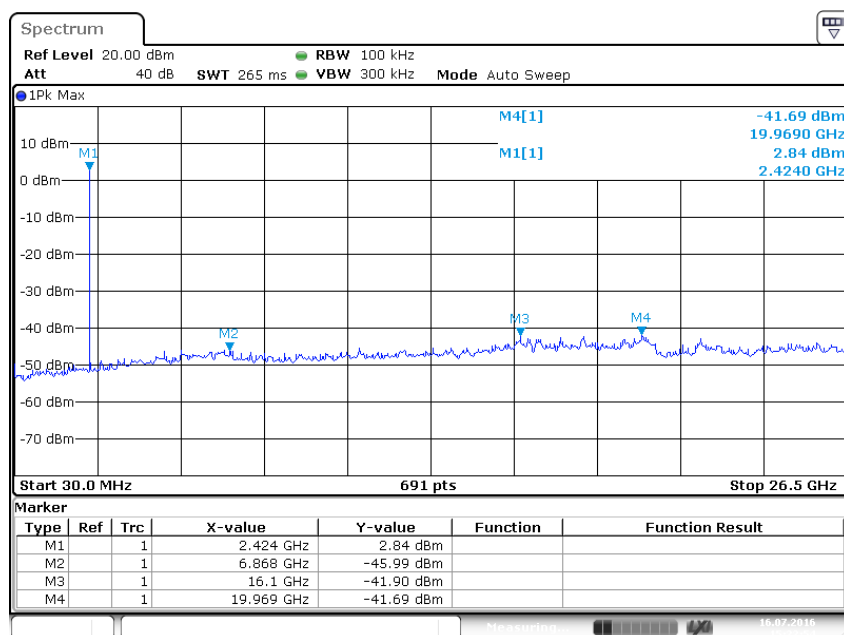
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Appendix A.6: Test Plots of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

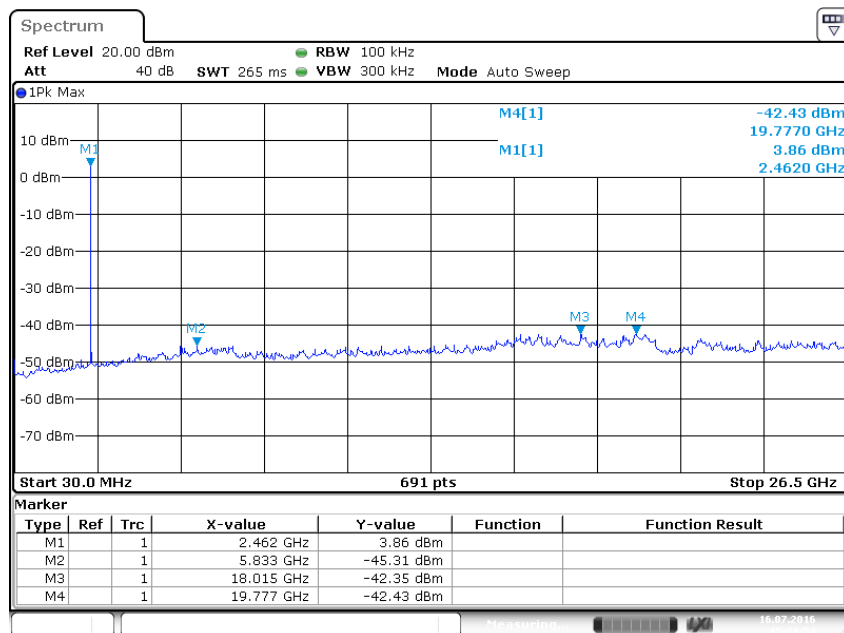
BDR Mode, DH1



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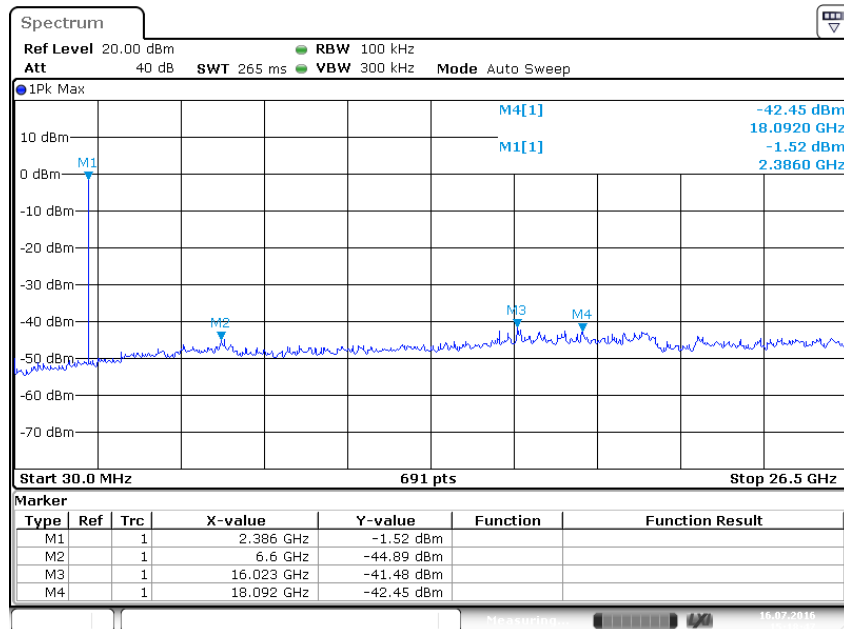


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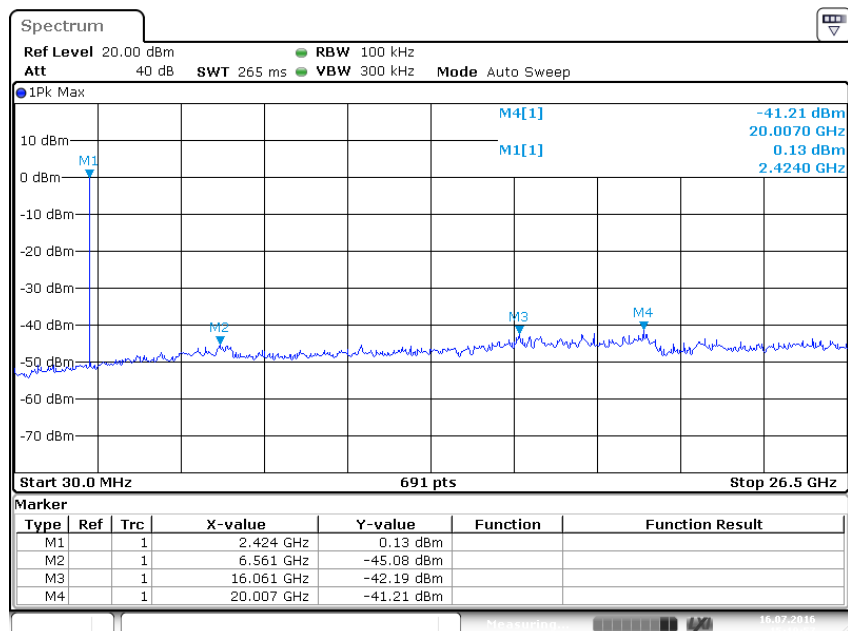


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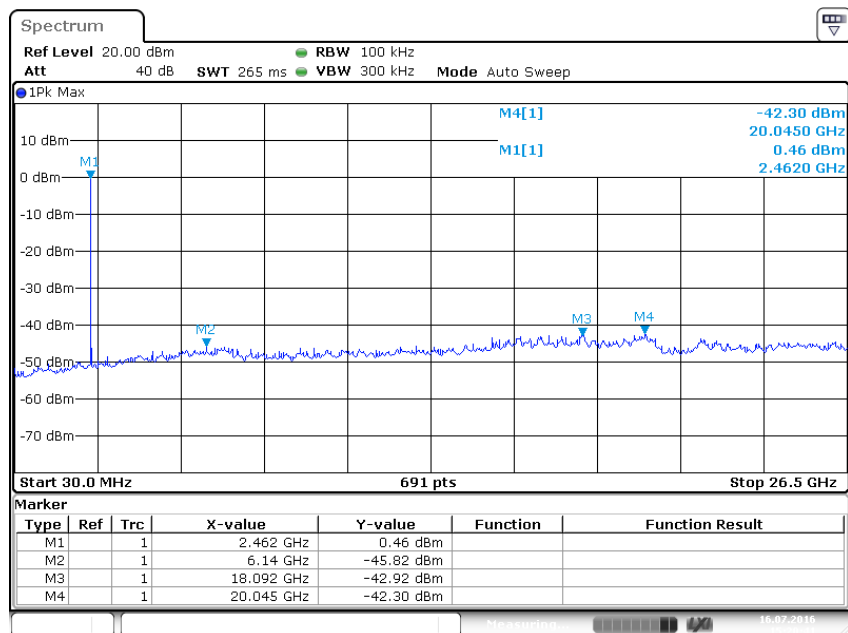
EDR Mode, 3DH1



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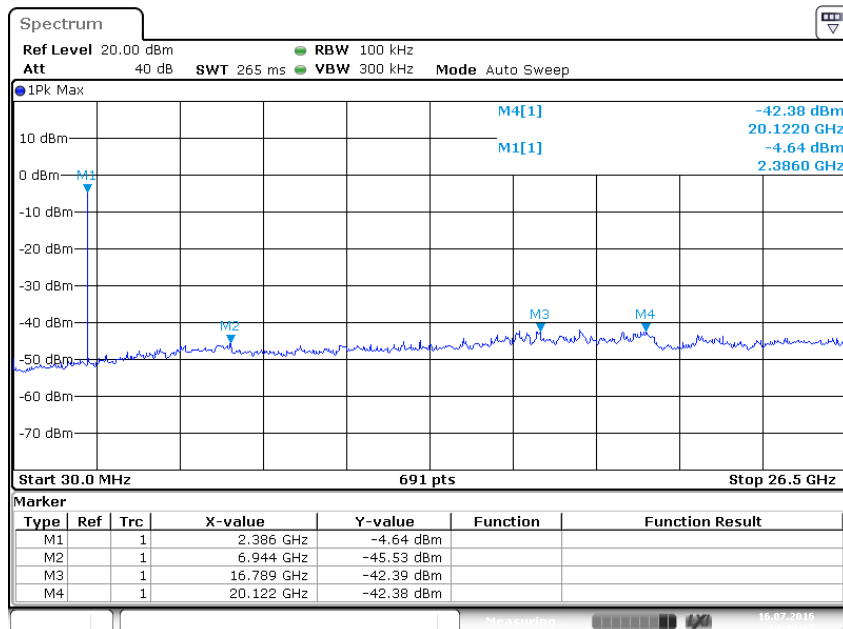


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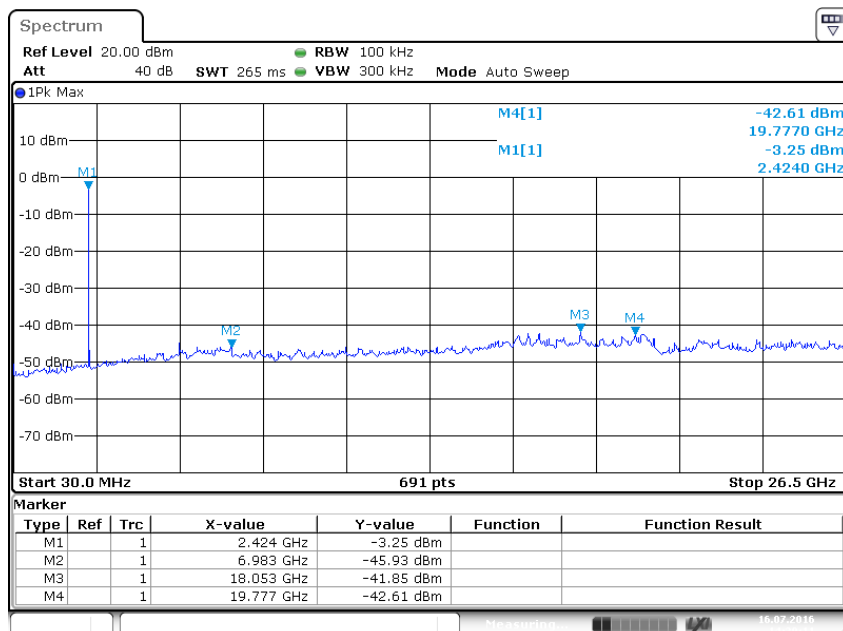


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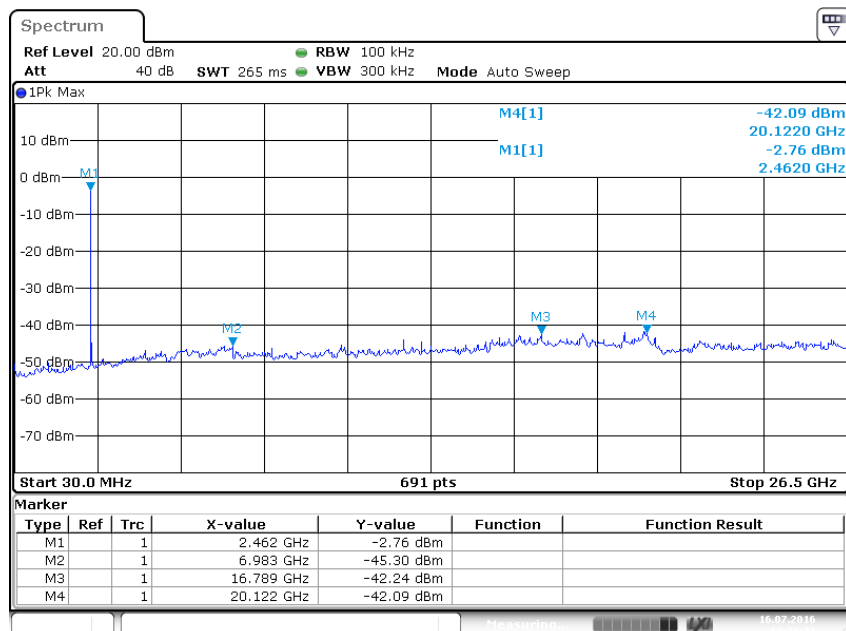
Low Energy Mode



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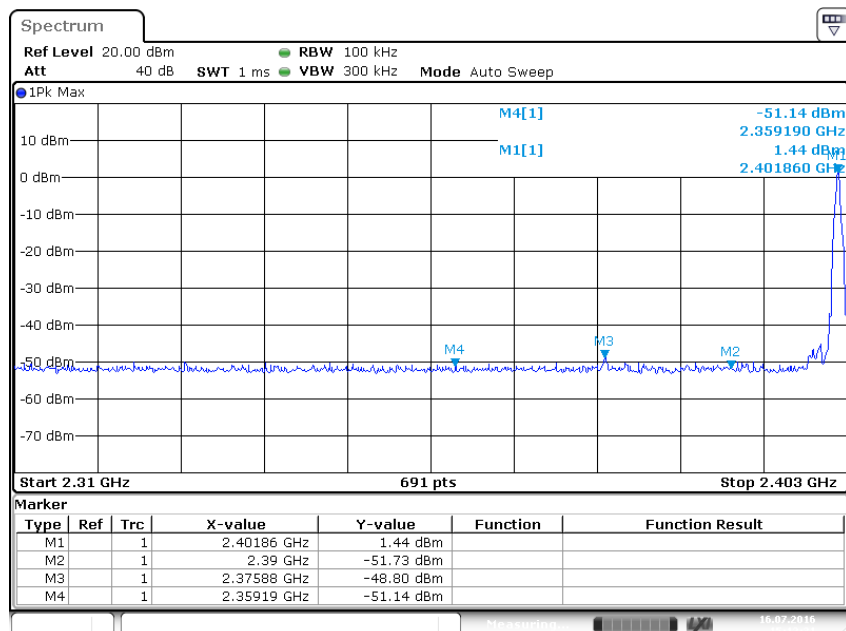


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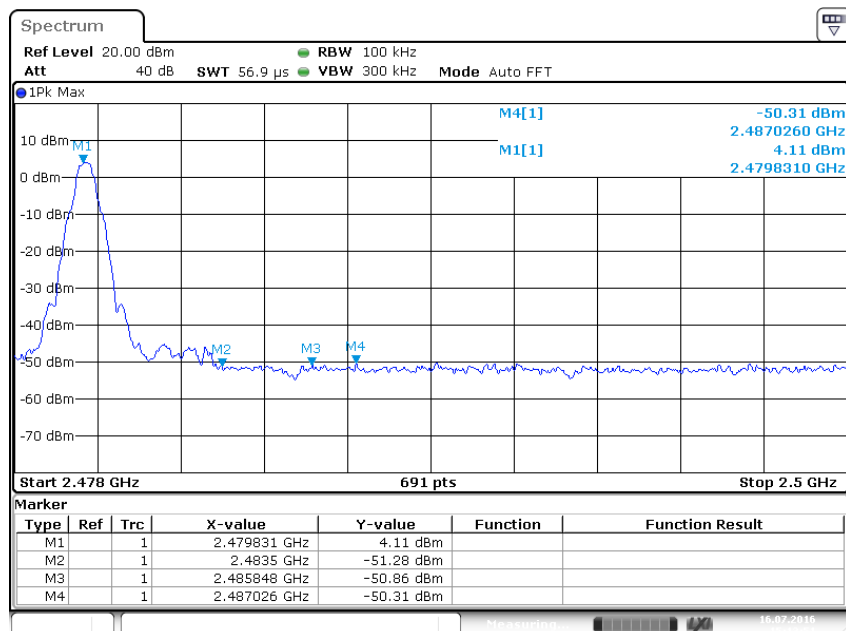


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BDR Mode, Band Edge

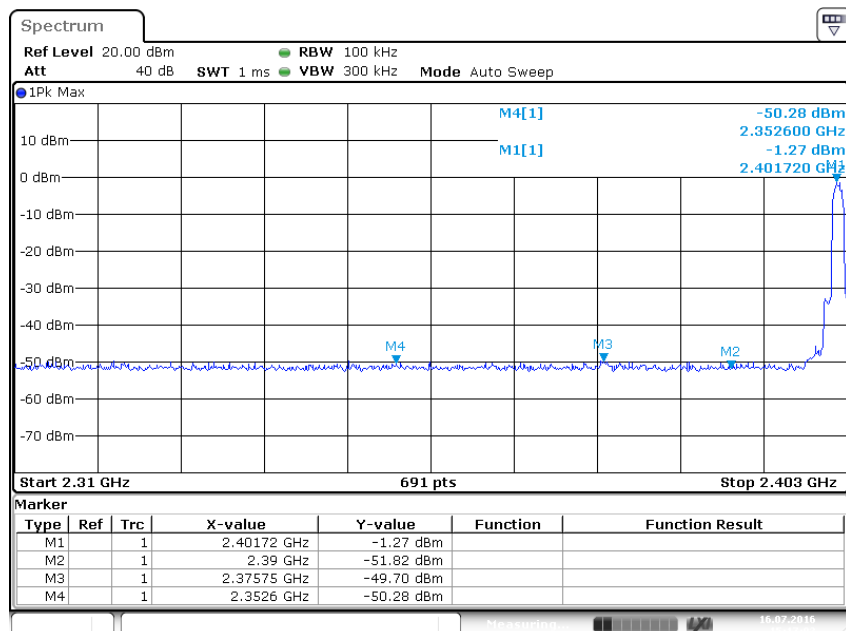


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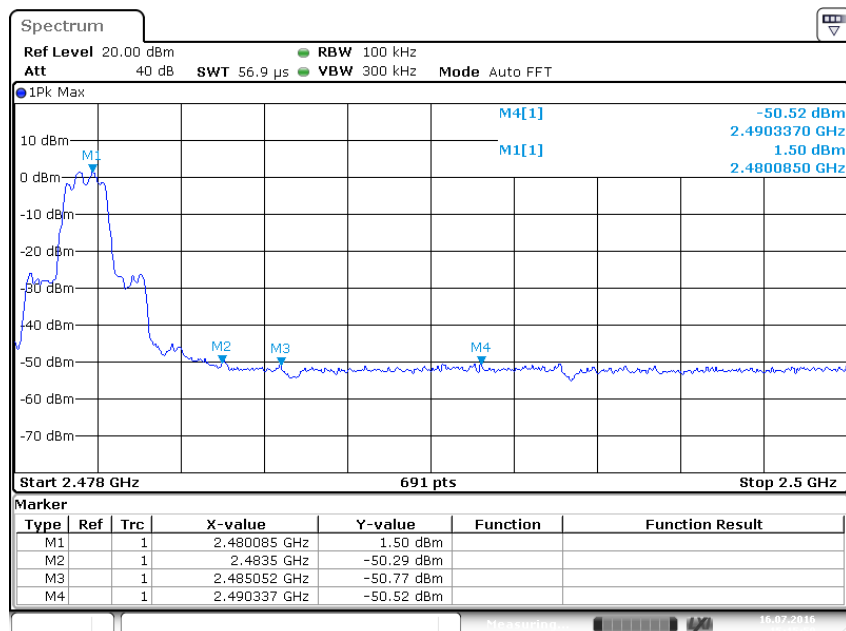


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EDR Mode, Band Edge

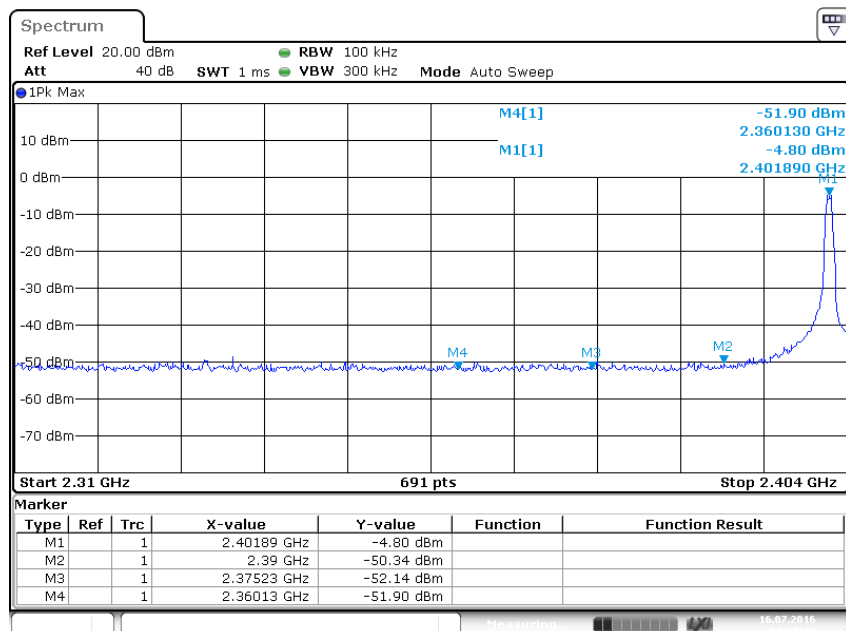


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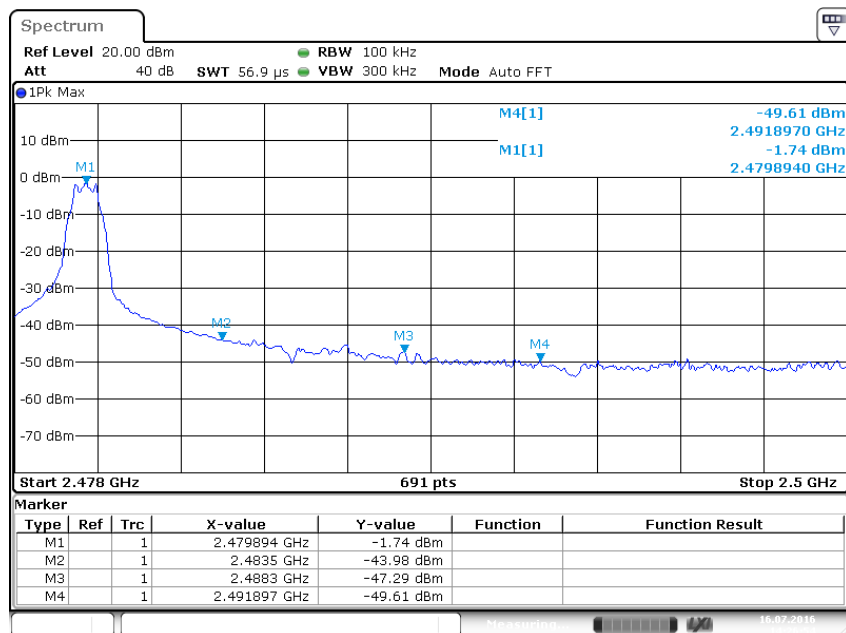


Date: 16.JUL.2016 15:15:51

Low Energy Mode, Band Edge



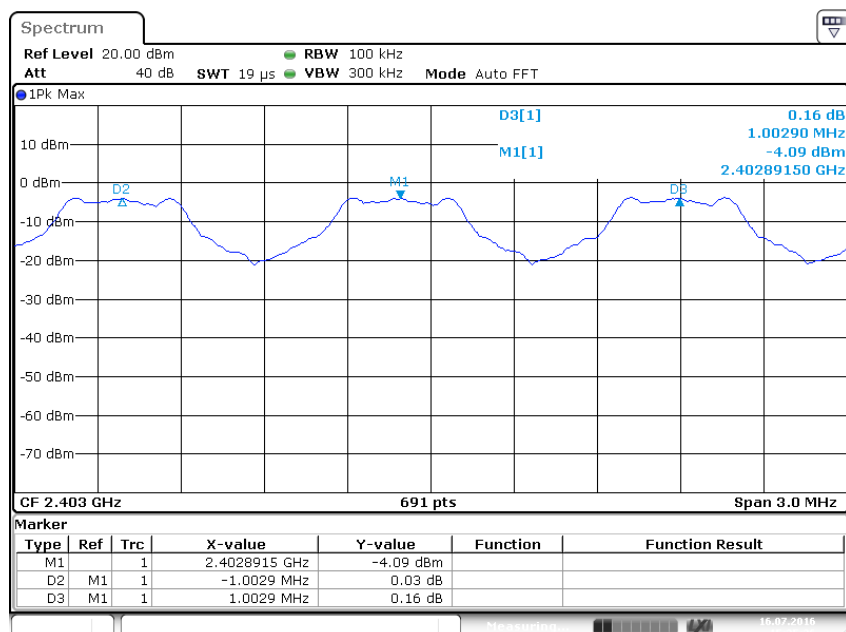
Date: 16.JUL.2016 14:25:44



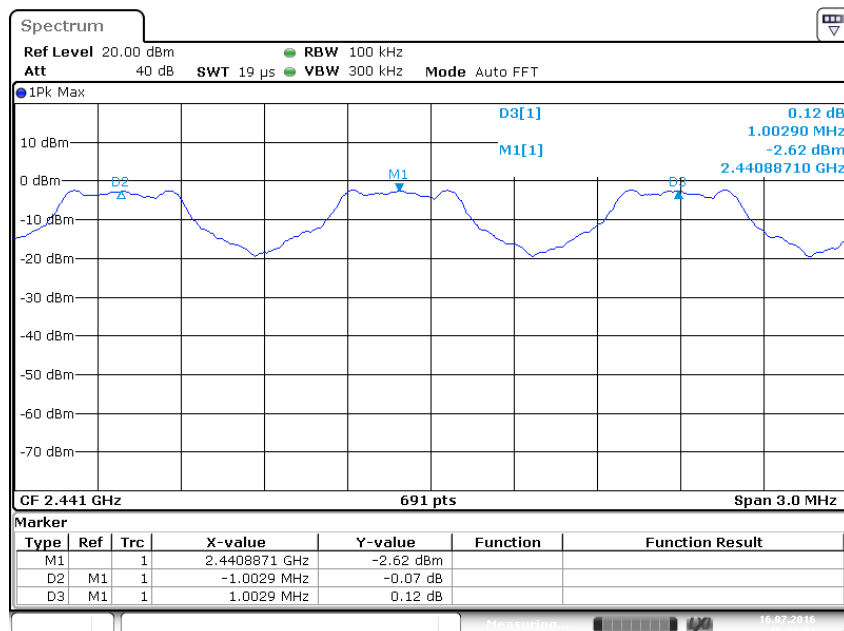
Date: 16.JUL.2016 14:26:55

Appendix A.7: Test Plots of Carrier Frequency Separation

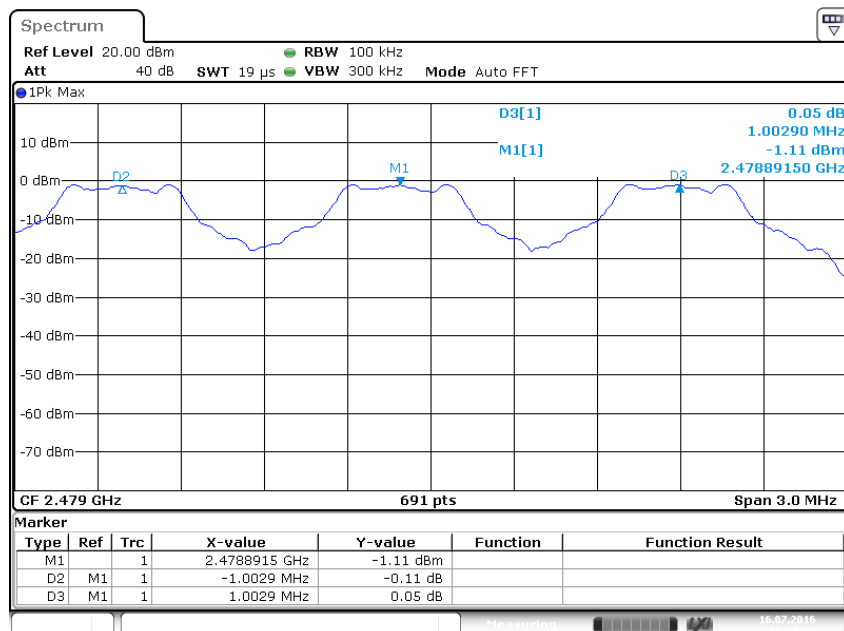
Hopping Mode



Date: 16.JUL.2016 15:25:36



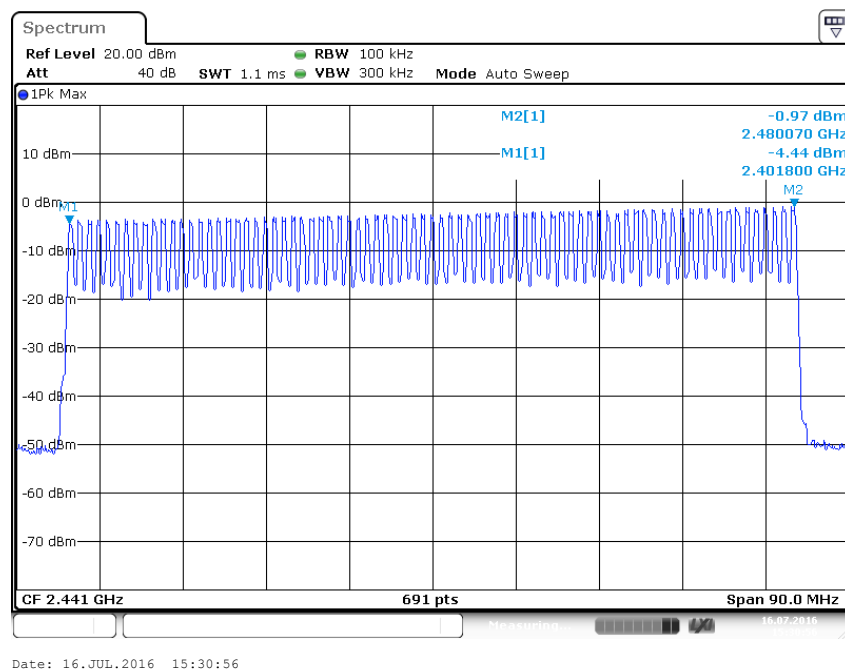
Date: 16.JUL.2016 15:27:03



Date: 16.JUL.2016 15:28:10

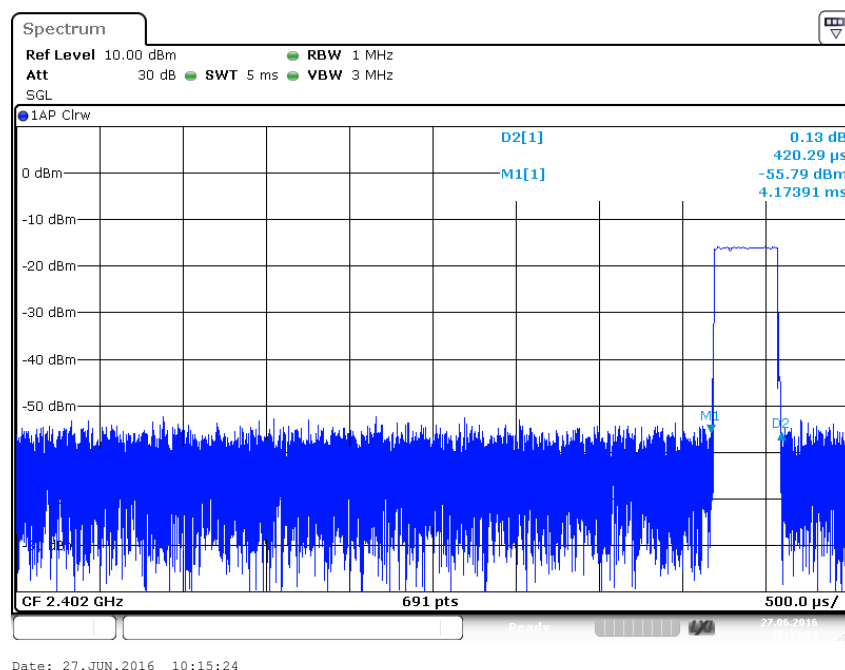
Appendix A.8: Test Plots of Number of Hopping Frequency

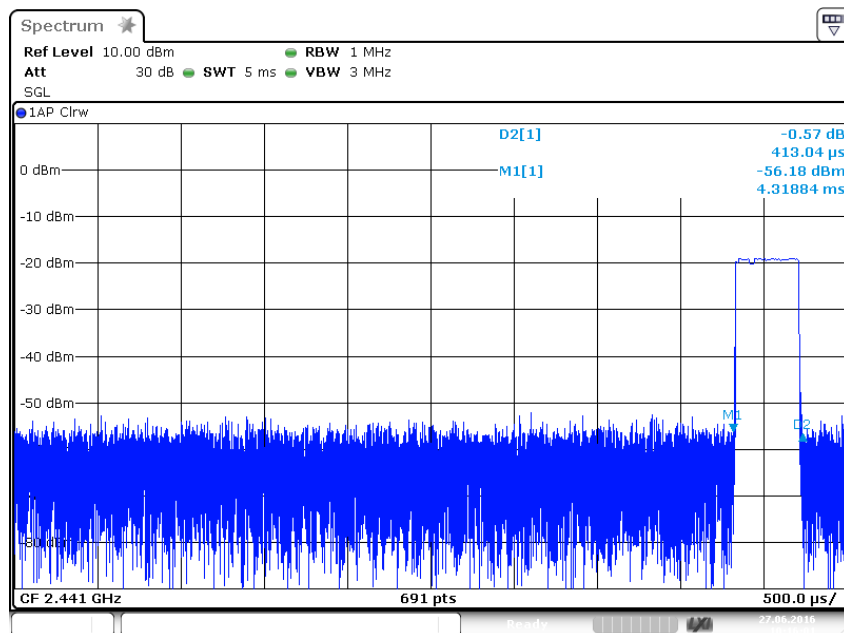
Hopping Mode



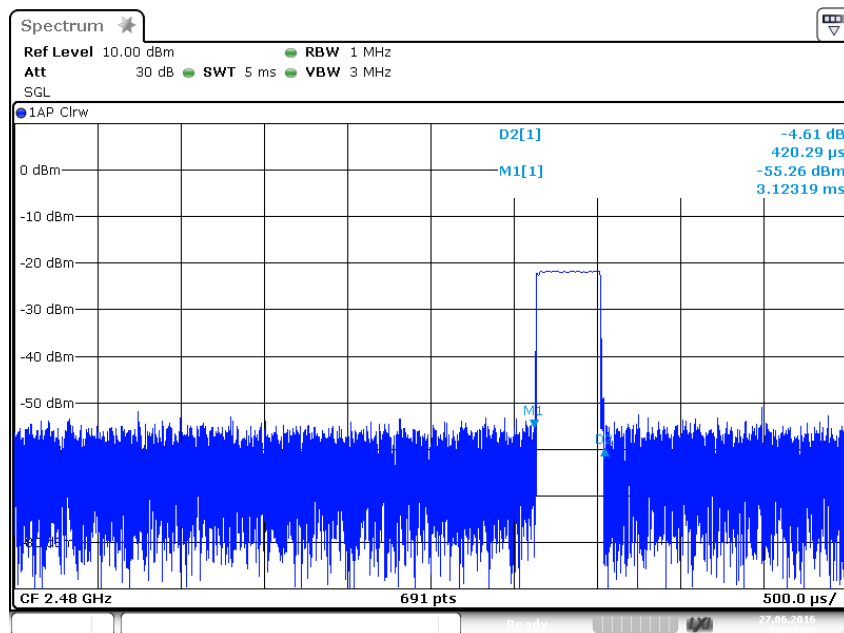
Appendix A.9: Test Plots of Time of Occupancy

BDR Mode, DH1



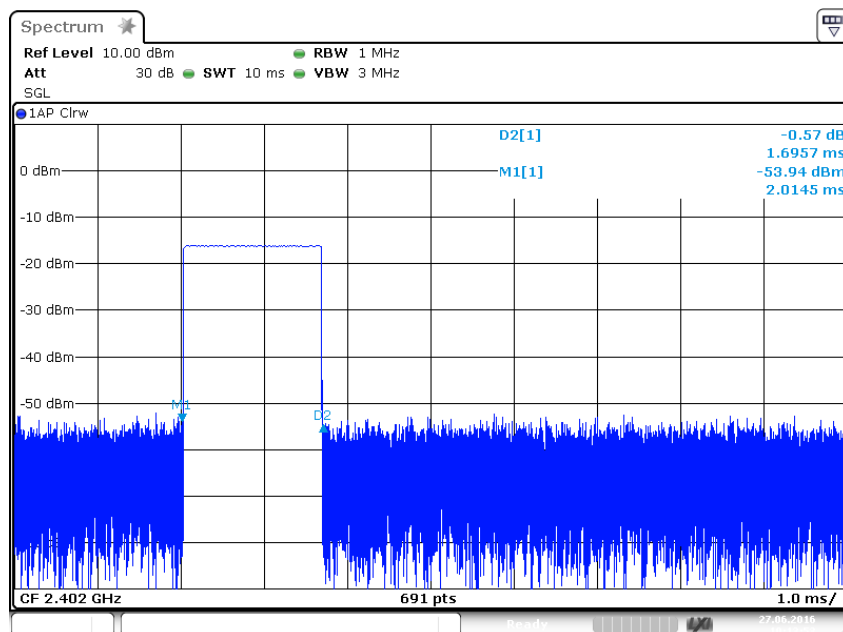


Date: 27.JUN.2016 10:16:01

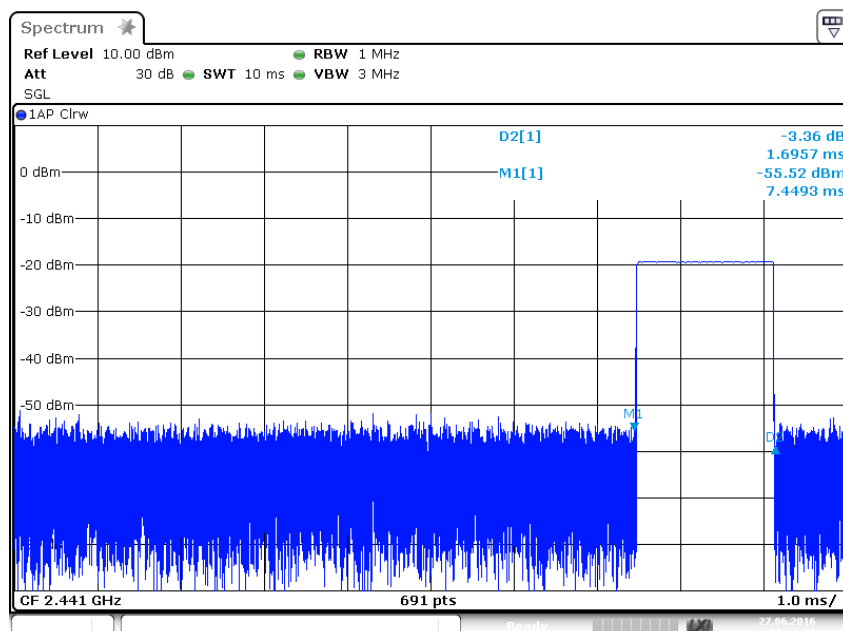


Date: 27.JUN.2016 10:17:03

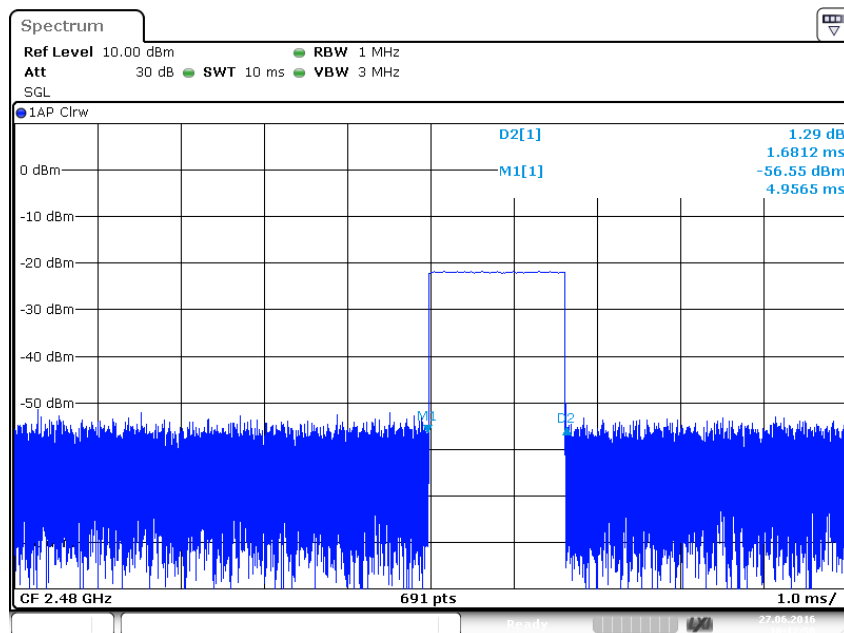
BDR Mode, DH3



Date: 27.JUN.2016 10:13:54

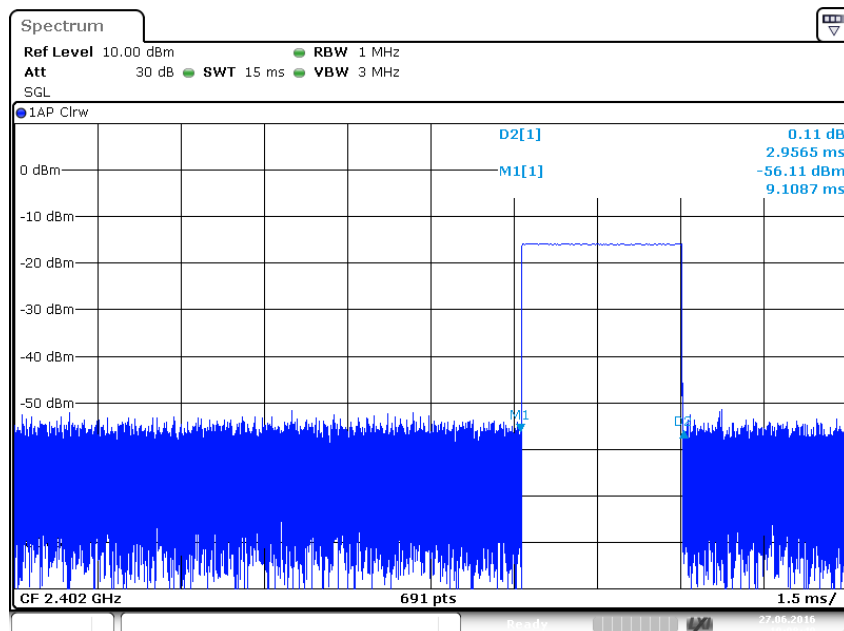


Date: 27.JUN.2016 10:13:20

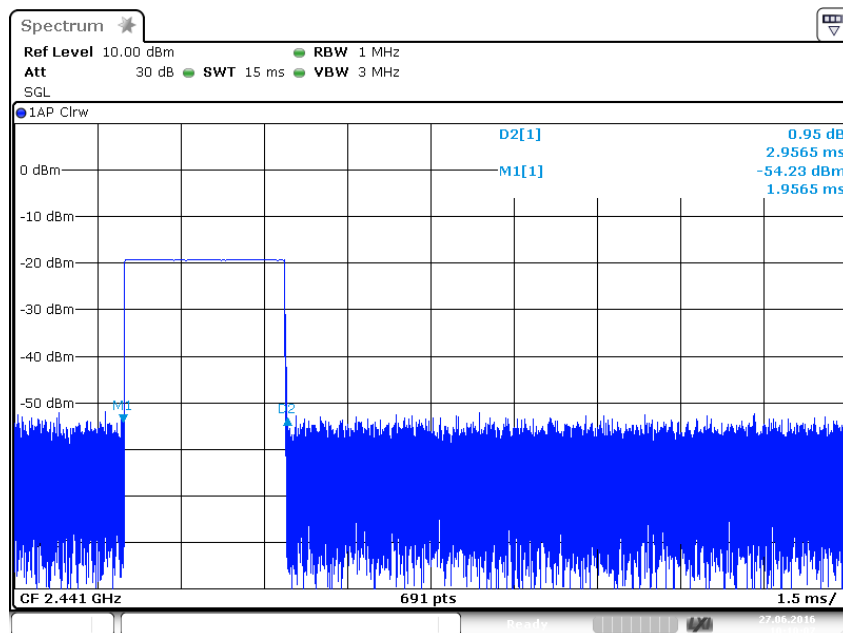


Date: 27.JUN.2016 10:12:50

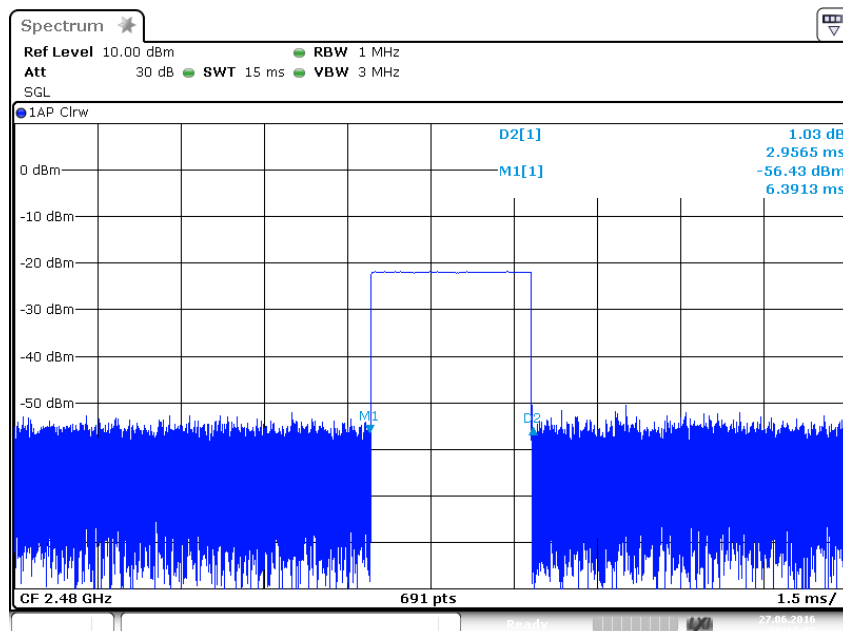
BDR Mode, DH5



Date: 27.JUN.2016 10:08:41

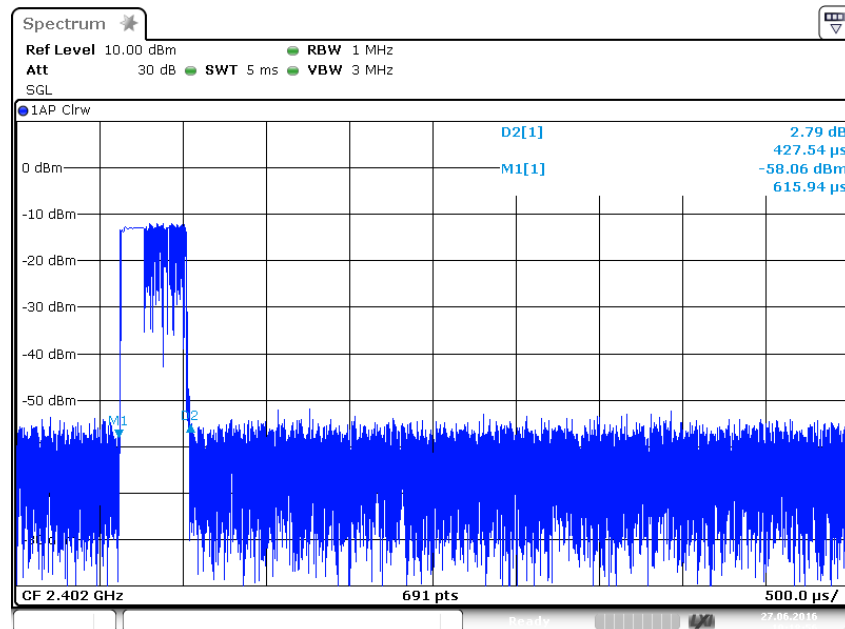


Date: 27.JUN.2016 10:10:08

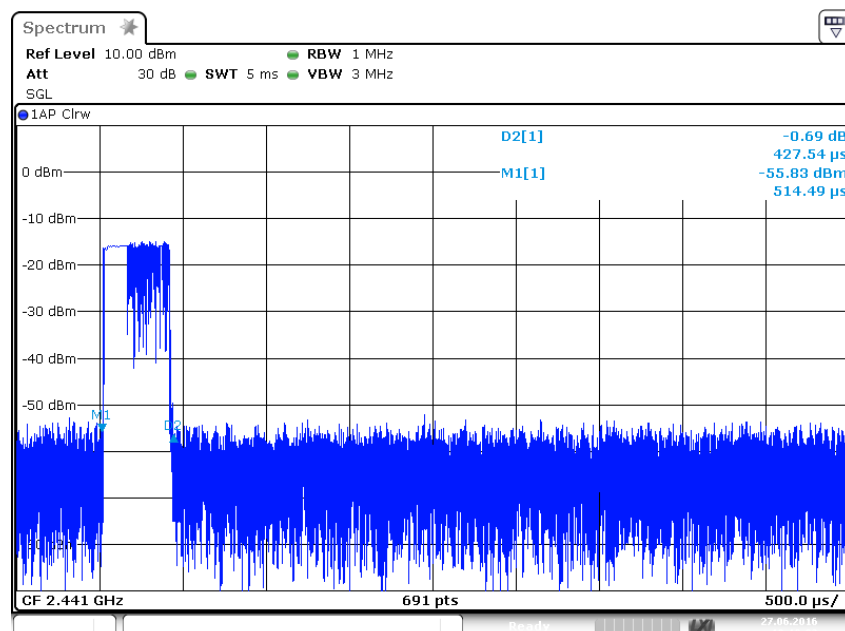


Date: 27.JUN.2016 10:11:57

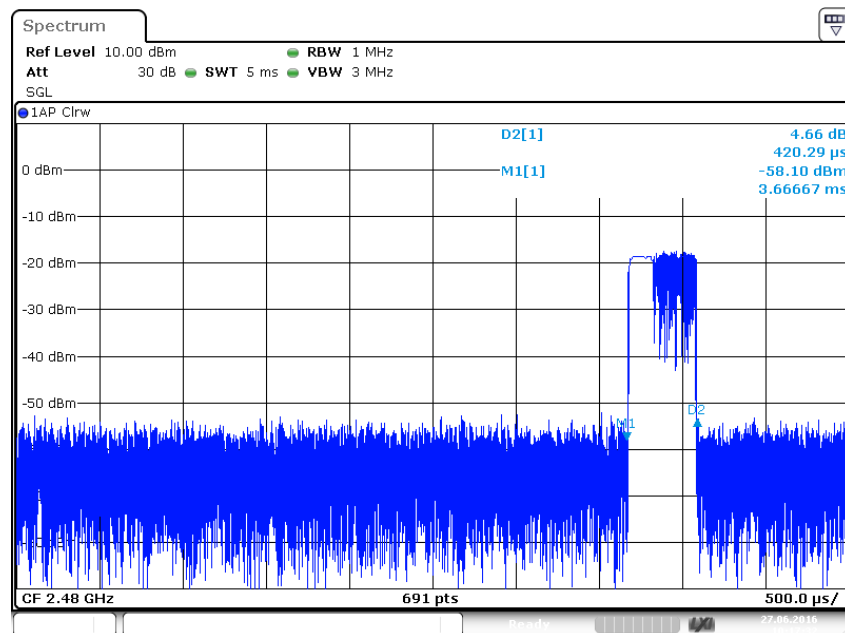
EDR Mode, 3DH1



Date: 27.JUN.2016 10:18:56

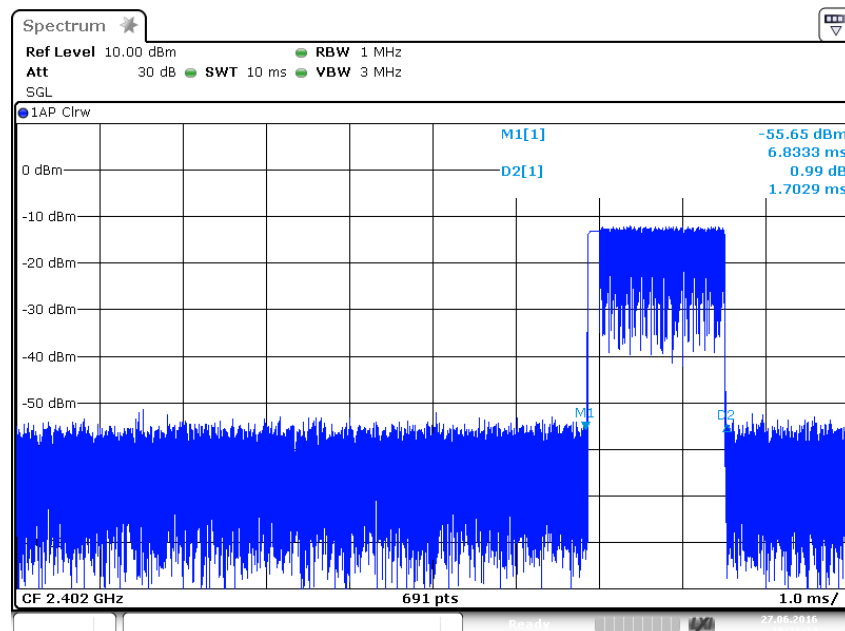


Date: 27.JUN.2016 10:18:03

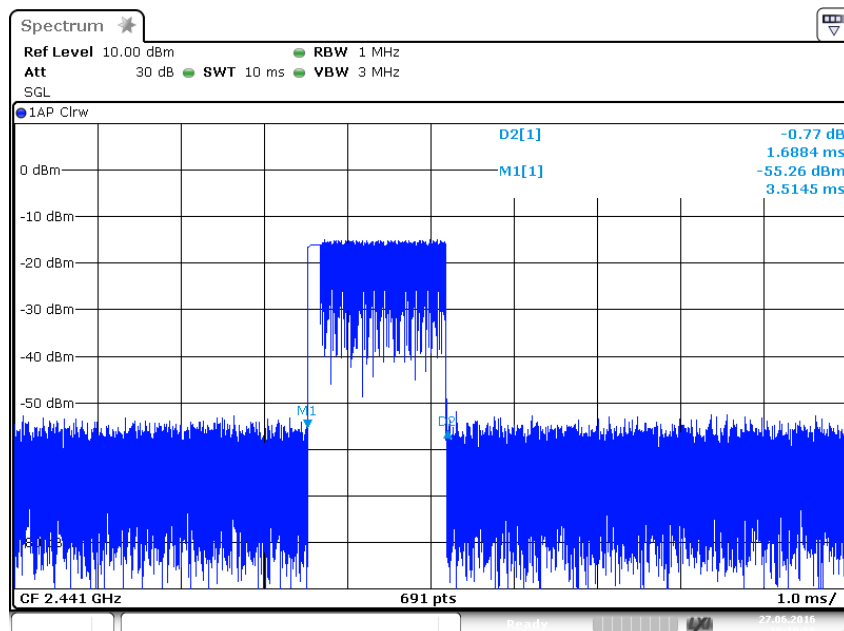


Date: 27.JUN.2016 10:17:32

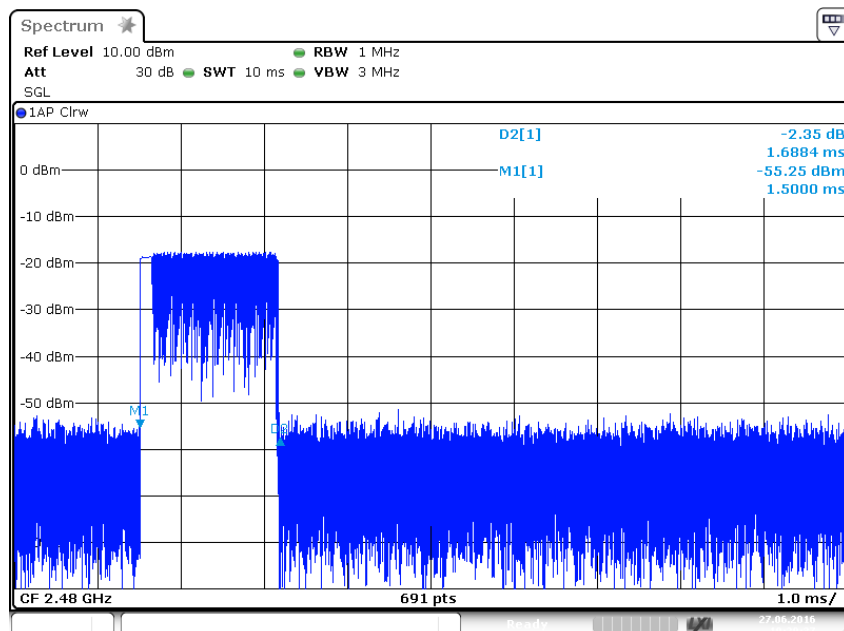
EDR Mode, 3DH3



Date: 27.JUN.2016 10:21:24

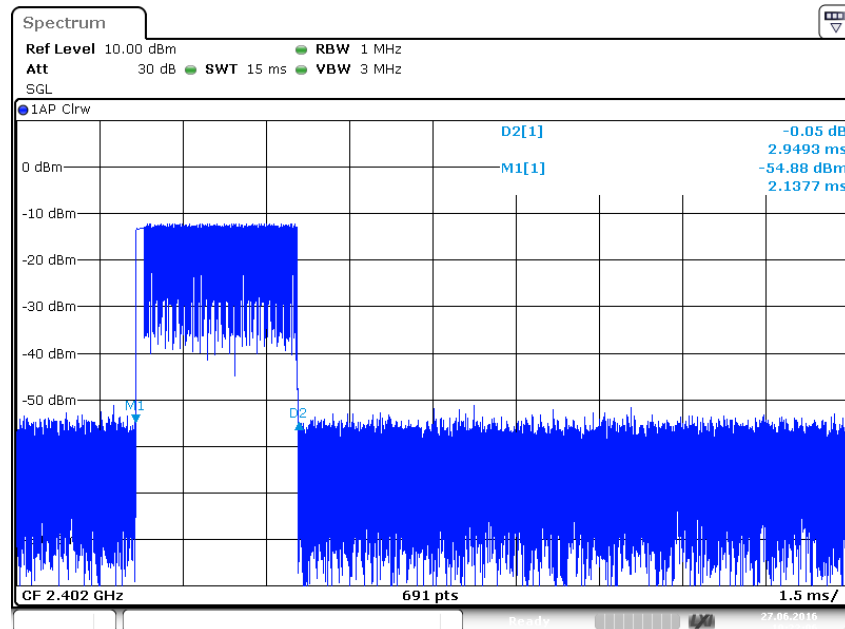


Date: 27.JUN.2016 10:20:00

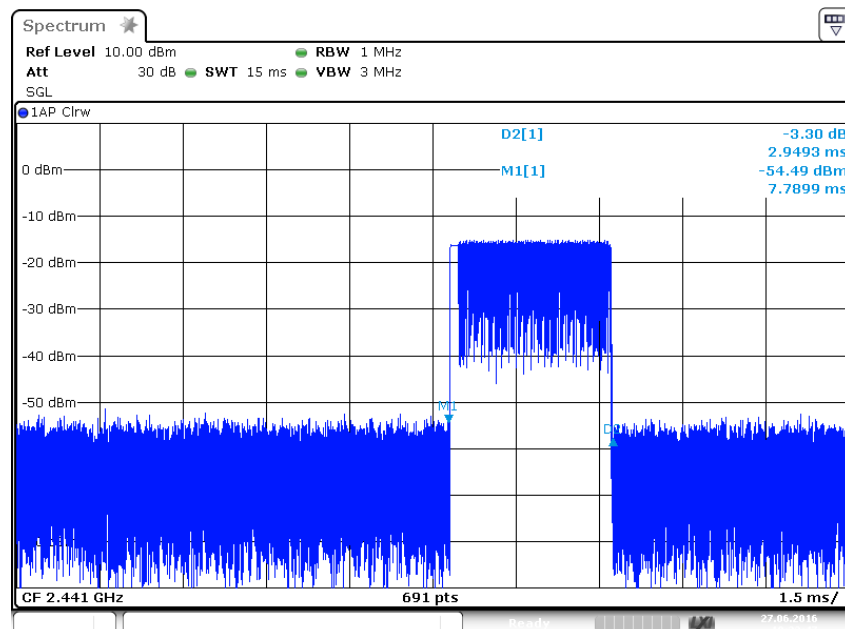


Date: 27.JUN.2016 10:20:37

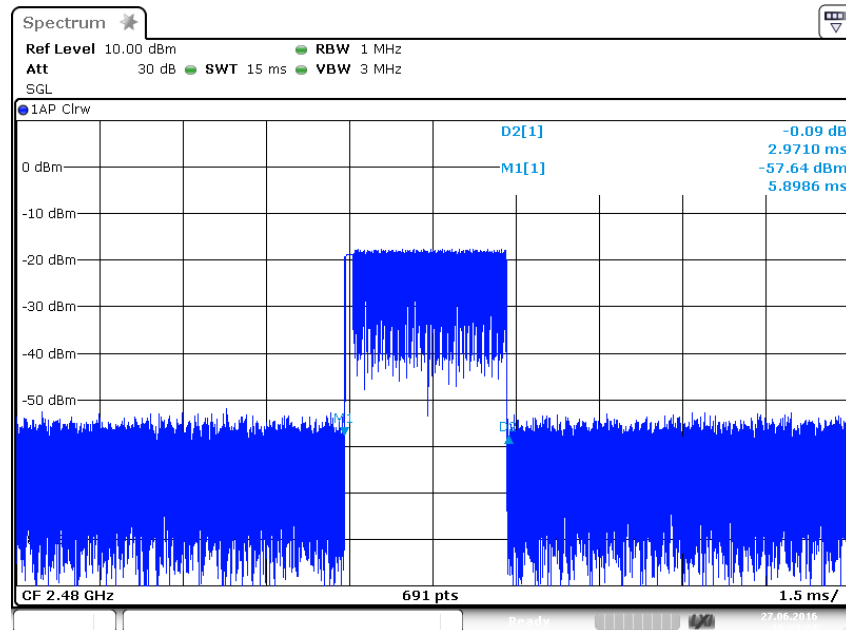
EDR Mode, 3DH5



Date: 27.JUN.2016 10:22:06



Date: 27.JUN.2016 10:22:48



Date: 27.JUN.2016 10:23:27

Appendix B

Test Results of Bluetooth 4.1 (Dual mode) of Conducted and Radiated Emission Testing

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Note: The measurements with active loop antenna were greater than 20dB below the limit, so Radiated Spurious Emissions (9kHz – 30MHz) tests were applied on BDR mode only.

Appendix B.1: Test Plots of Radiated Spurious Emission

BDR mode, 9KHz - 30MHz

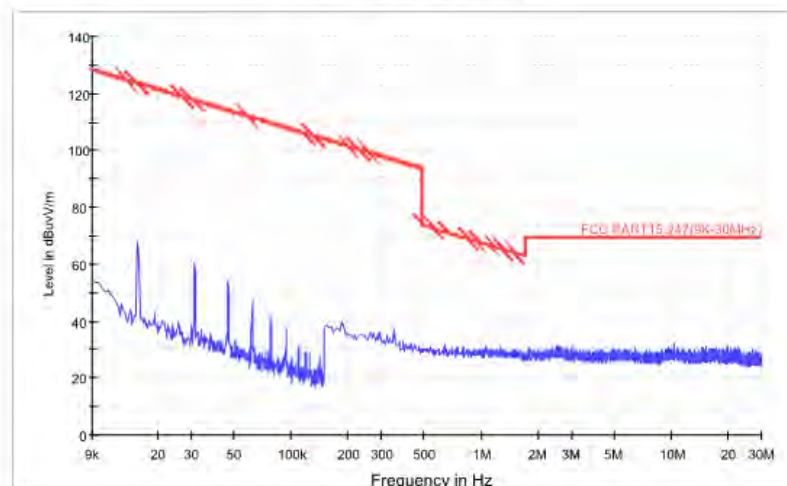
ACCURATE TECHNOLOGY CO.,LTD

RADIATED EMISSION

Common Information

Test Description: EMC32 Standard Report Setup
Operating Conditions:
Operator Name:

FCC PART15.247(9K-30MHz)



Protocol

Test Start: 2016-7-16 10:10:00
Test Stop: 2016-7-16 10:12:25

EUT Information

EUT Name:	Bluetooth Receiver Kit M/N: NS-MBTK35, NS-MBTK35-C
Manufacturer:	Anfair Electronics Plastic Factory
Operation Mode:	TX 2402MHz
Operator	LGWADE
Power :	DC 3.7V
Antenna Polarization:	X
Comment:	

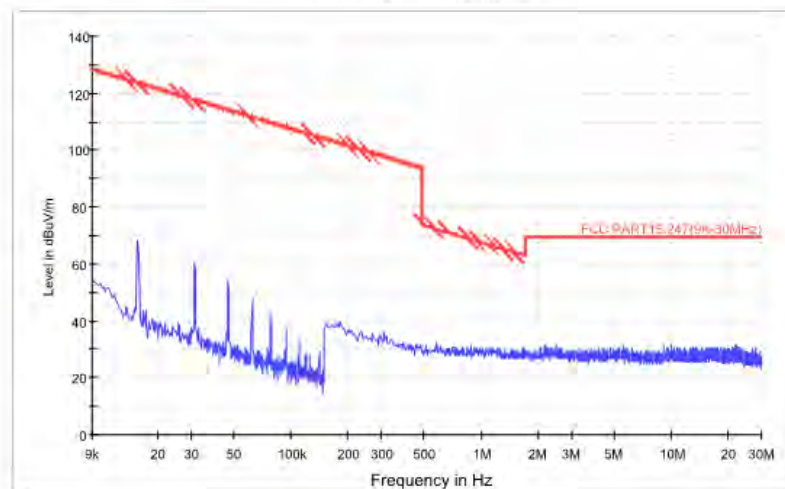
ACCURATE TECHNOLOGY CO.,LTD

RADIATED EMISSION GB18655 2010 CLASS2

Common Information

Test Description: EMC32 Standard Report Setup
Operating Conditions:
Operator Name:

FCC PART15.247(9K-30MHz)



Protocol

Test Start: 2016-7-16 10:13:20
Test Stop: 2016-7-16 10:15:44

EUT Information

EUT Name: Bluetooth Receiver Kit M/N: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory
Operation Mode: TX 2441MHz
Operator: LGWADE
Power: DC 3.7V
Antenna Polarization: Y
Comment:

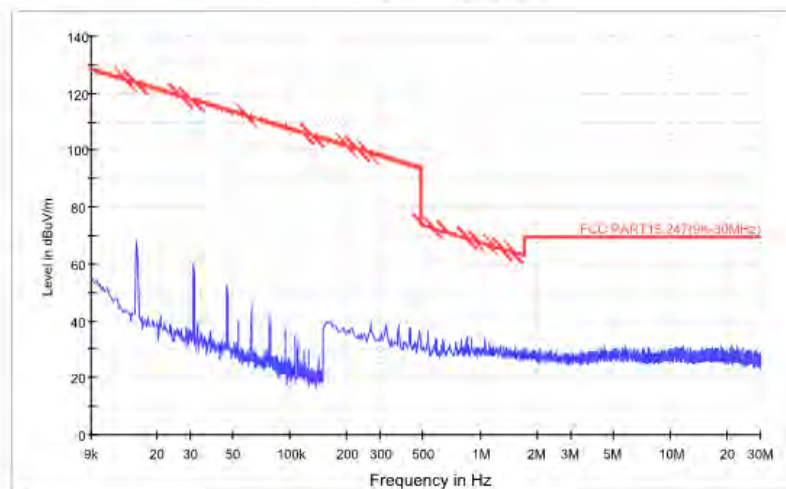
ACCURATE TECHNOLOGY CO.,LTD

RADIATED EMISSION GB18655 2010 CLASS2

Common Information

Test Description: EMC32 Standard Report Setup
Operating Conditions:
Operator Name:

FCC PART15.247(9K-30MHz)



Protocol

Test Start: 2016-7-16 10:19:32
Test Stop: 2016-7-16 10:21:56

EUT Information

EUT Name:	Bluetooth Receiver Kit M/N: NS-MBTK35, NS-MBTK35-C
Manufacturer:	Anfair Electronics Plastic Factory
Operation Mode:	TX 2480MHz
Operator	LGWADE
Power :	DC 3.7V
Antenna Polarization:	Z
Comment:	

BDR mode, 30MHz - 1GHz



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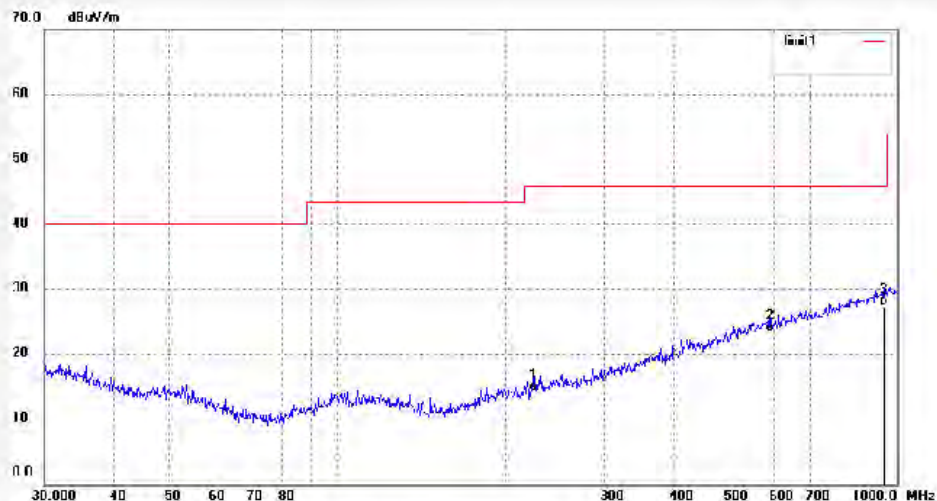
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Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lgwade #2708
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2402MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	224.5192	25.75	-11.46	14.29	46.00	-31.71	QP			
2	593.0497	26.45	-3.03	23.42	46.00	-22.58	QP			
3	948.7608	25.27	2.13	27.40	46.00	-18.60	QP			



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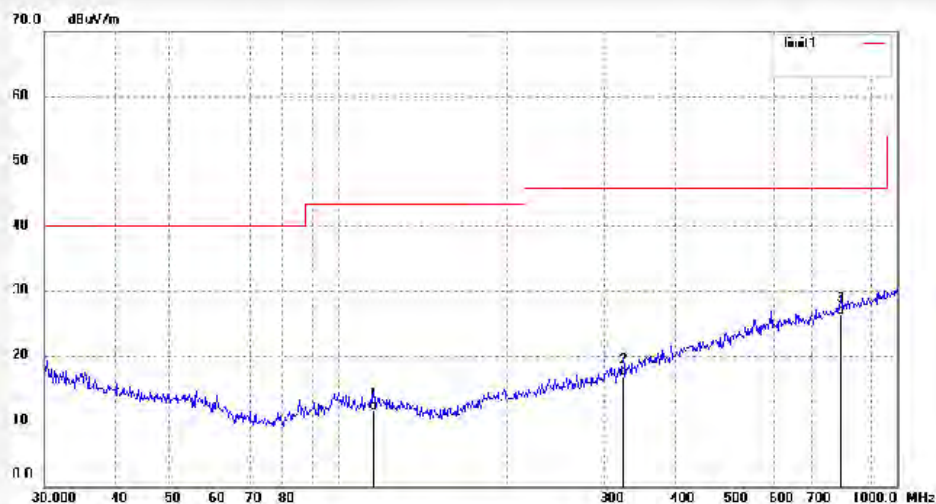
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Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lgwade #2709
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2402MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	116.1320	24.76	-13.15	11.61	43.50	-31.89	QP			
2	324.4560	25.45	-8.56	16.89	46.00	-29.11	QP			
3	793.3958	26.51	-0.12	26.39	46.00	-19.61	QP			



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Job No.: lgwade #2710

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Receiver Kit

Mode: TX 2441MHz

Model: NS-MBTK35, NS-MBTK35-C

Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 3.7V

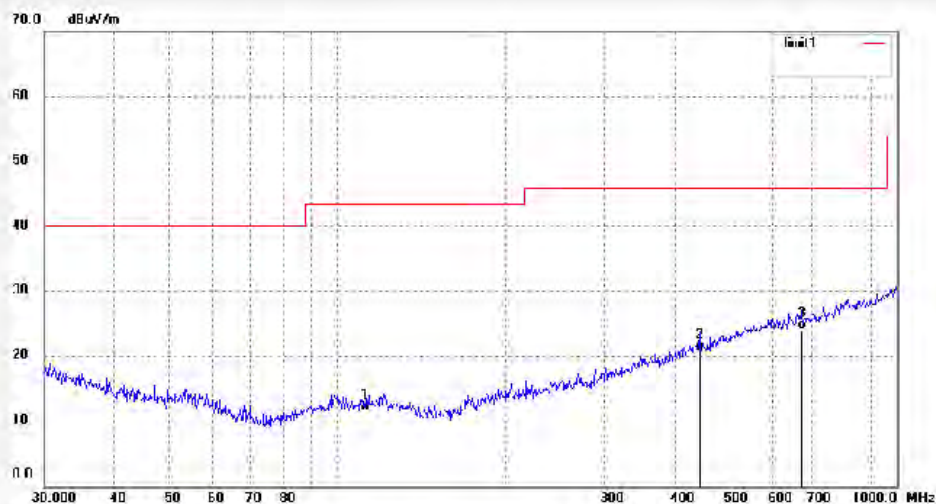
Date: 16/07/16/

Time:

Engineer Signature: LGWADE

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	112.5243	24.92	-13.52	11.40	43.50	-32.10	QP			
2	443.2943	26.62	-5.87	20.75	46.00	-25.25	QP			
3	675.2078	26.15	-2.07	24.08	46.00	-21.92	QP			



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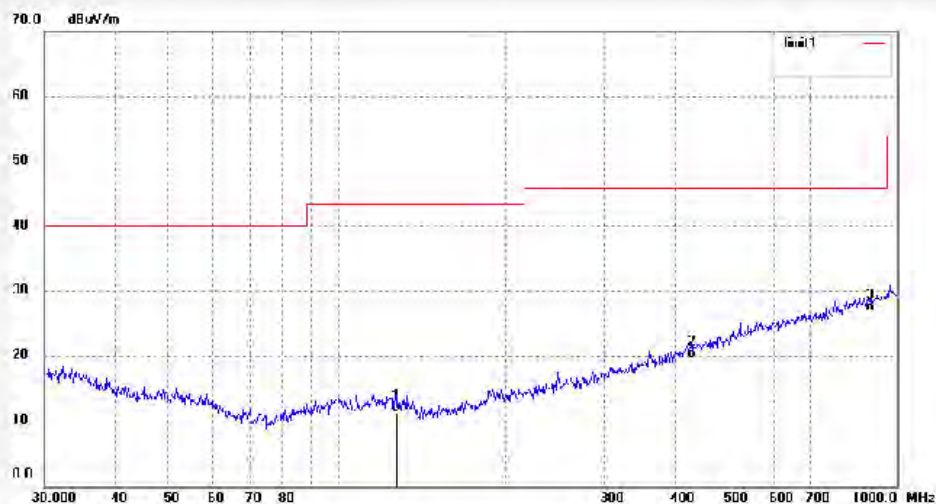
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Site: 2# Chamber
Tel:+86-0755-26503290
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Job No.: lgwade #2711
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2441MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	127.2176	25.04	-13.79	11.25	43.50	-32.25	QP			
2	429.5228	25.77	-6.05	19.72	46.00	-26.28	QP			
3	896.9964	25.64	1.27	26.91	46.00	-19.09	QP			



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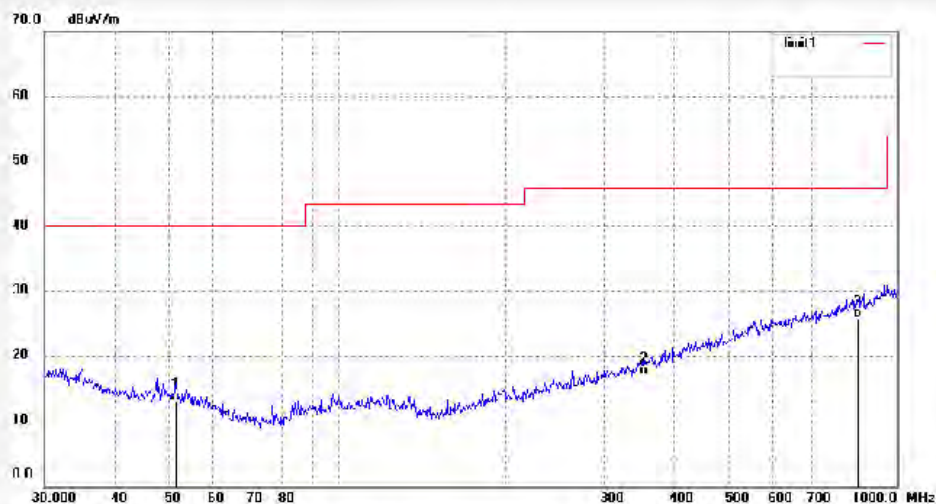
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lgwade #2712
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2480MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	51.4806	25.77	-12.71	13.06	40.00	-26.94	QP			
2	352.9433	24.74	-7.73	17.01	46.00	-28.99	QP			
3	851.0353	25.13	0.72	25.85	46.00	-20.15	QP			



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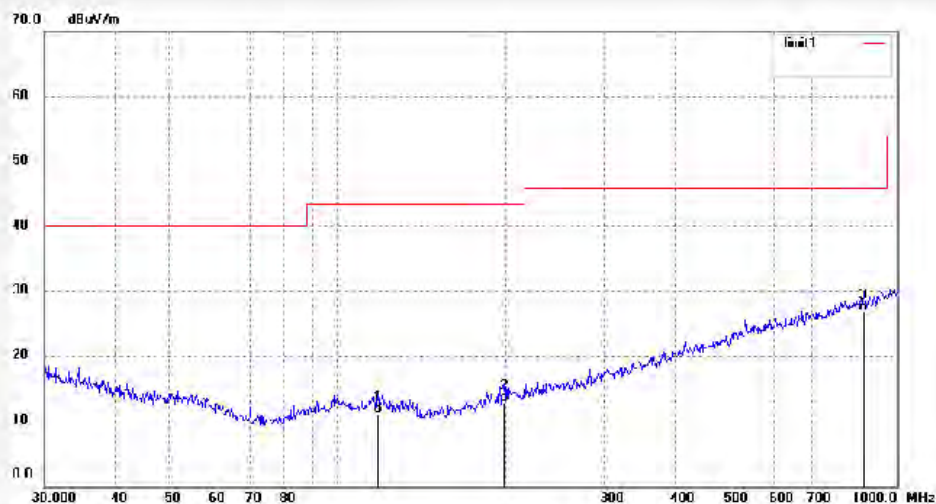
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lgwade #2713
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2480MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	118.1861	24.18	-13.15	11.03	43.50	-32.47	QP			
2	198.5879	25.25	-12.46	12.79	43.50	-30.71	QP			
3	872.1832	25.88	1.07	26.95	46.00	-19.05	QP			

BDR mode, 1GHz - 18GHz



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Job No.: lgwade #2676

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Receiver Kit

Mode: TX 2402MHz

Model: NS-MBTK35, NS-MBTK35-C

Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 3.7V

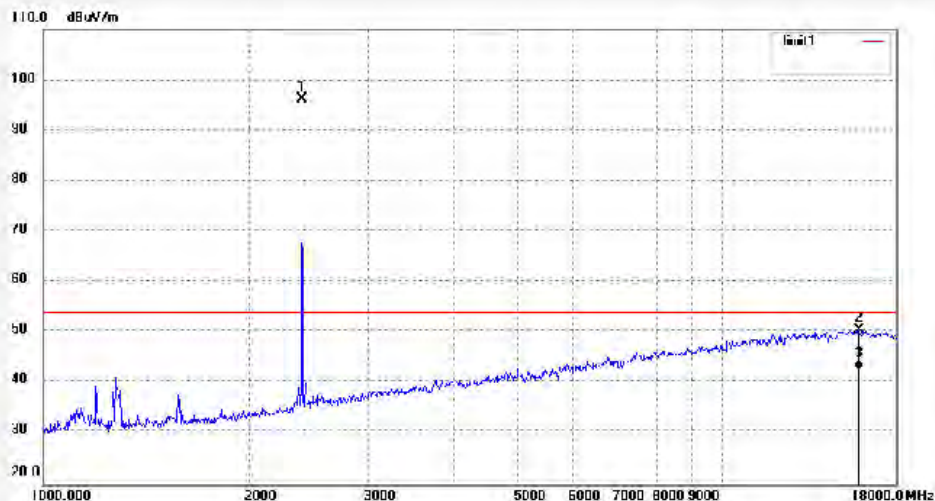
Date: 16/07/16/

Time:

Engineer Signature: LGWADE

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	103.64	-7.45	96.19	/	/	peak			
2	15896.290	10.39	40.02	50.41	74.00	-23.59	peak			
3	15896.290	2.51	40.02	42.53	54.00	-11.47	AVG			



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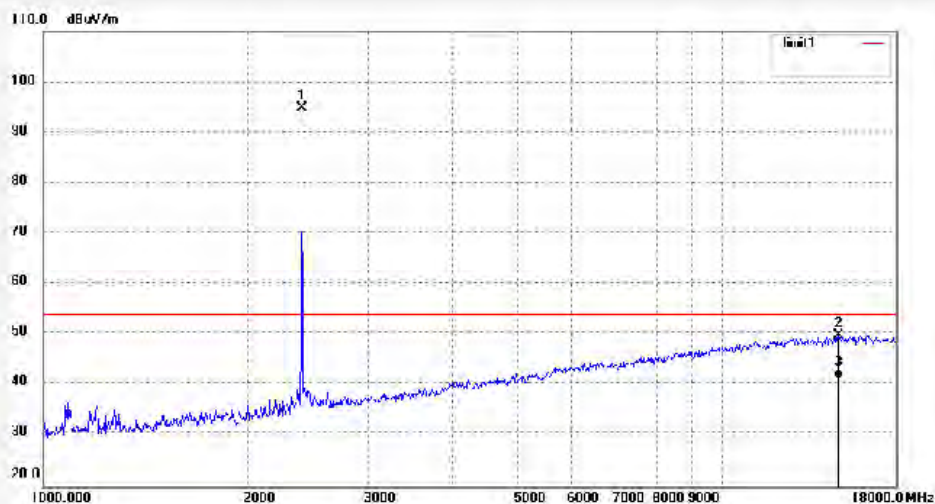
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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No.: lgwade #2677
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2402MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	102.25	-7.45	94.80	/	/	peak			
2	14788.154	8.09	41.74	49.83	74.00	-24.17	peak			
3	14788.154	-0.54	41.74	41.20	54.00	-12.80	AVG			



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Site: 2# Chamber

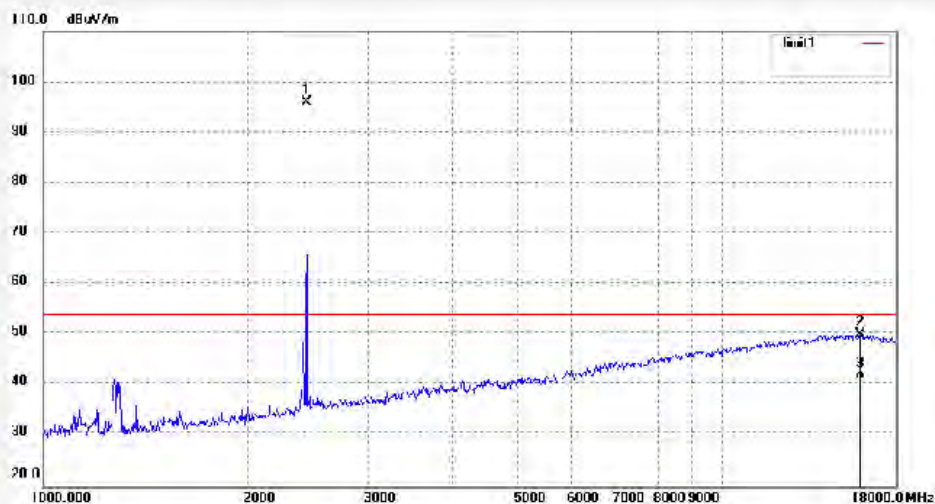
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lgwade #2680
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2441MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	103.27	-7.35	95.92	/	/	peak			
2	15942.303	9.97	40.01	49.98	74.00	-24.02	peak			
3	15942.303	1.05	40.01	41.06	54.00	-12.94	AVG			



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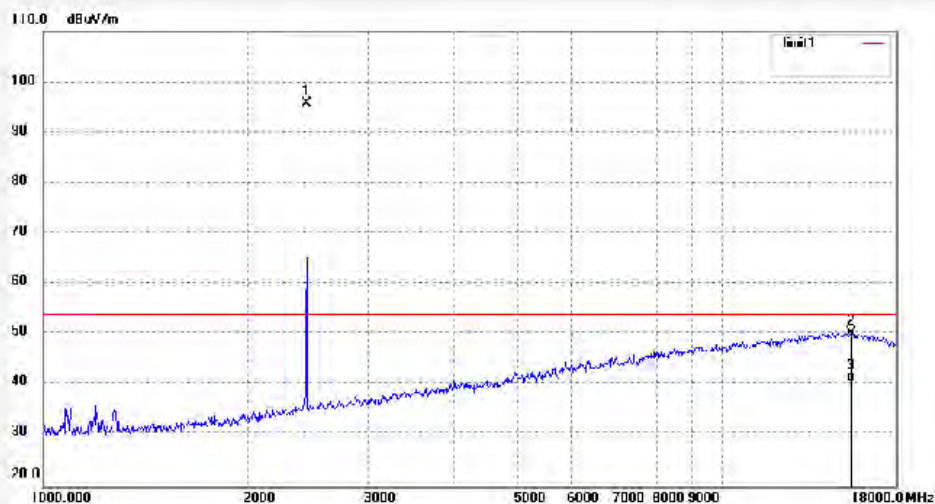
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lgwade #2681
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2441MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	103.16	-7.35	95.81	/	/	peak			
2	15443.405	10.02	40.21	50.23	74.00	-23.77	peak			
3	15443.405	0.35	40.21	40.56	54.00	-13.44	AVG			



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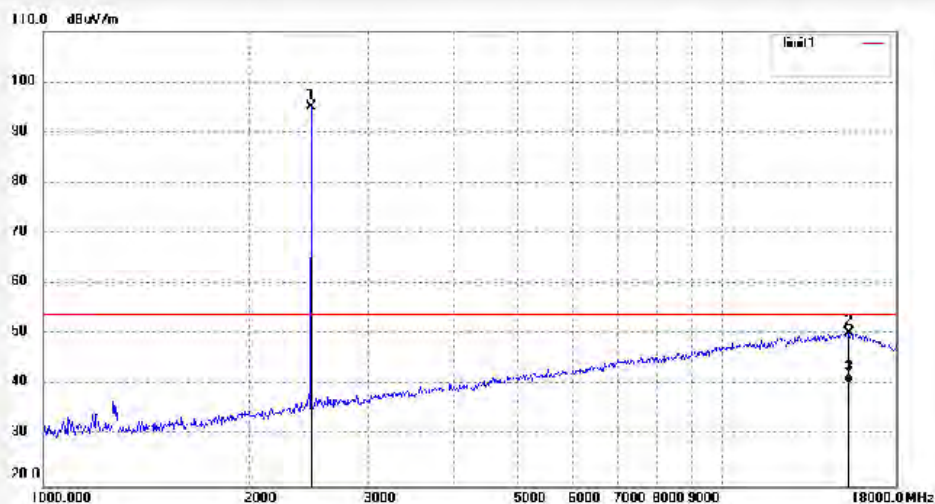
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lgwade #2682
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2480MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	102.31	-7.37	94.94	/	/	peak			
2	15310.072	9.70	40.48	50.18	74.00	-23.82	peak			
3	15310.072	-0.13	40.48	40.35	54.00	-13.65	AVG			



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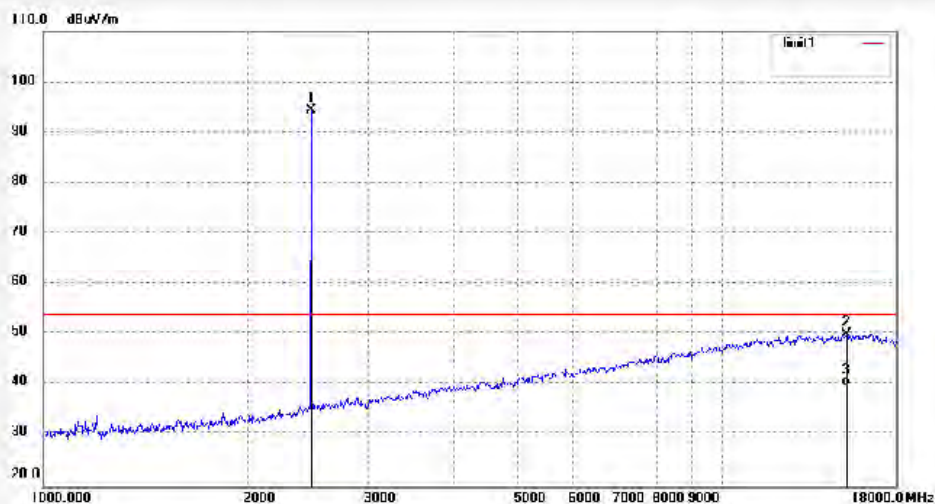
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Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lgwade #2683
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2480MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	101.84	-7.37	94.47	/	/	peak			
2	15221.824	9.29	40.66	49.95	74.00	-24.05	peak			
3	15221.824	-1.08	40.66	39.58	54.00	-14.42	AVG			

BDR mode, 18GHz - 26.5GHz



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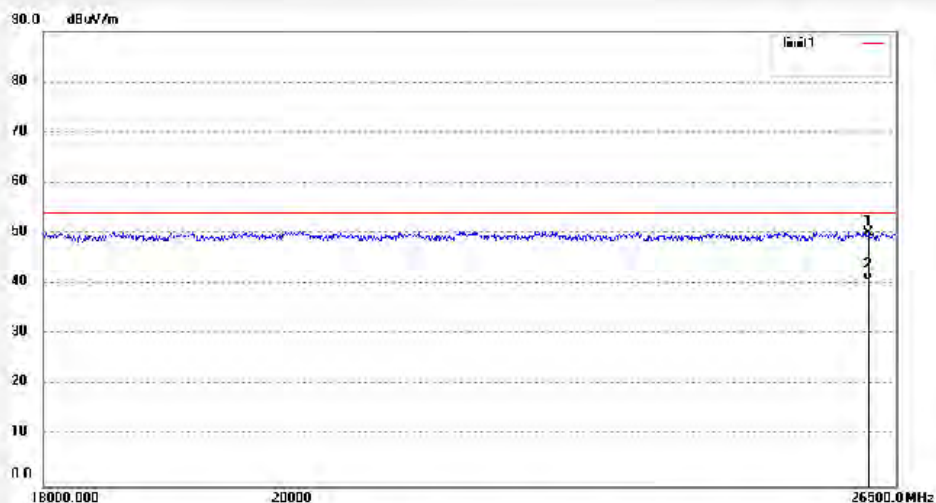
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lgwade #2686
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2402MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	26163.916	32.93	17.12	50.05	74.00	-23.95	peak			
2	26163.916	23.42	17.12	40.54	54.00	-13.46	AVG			



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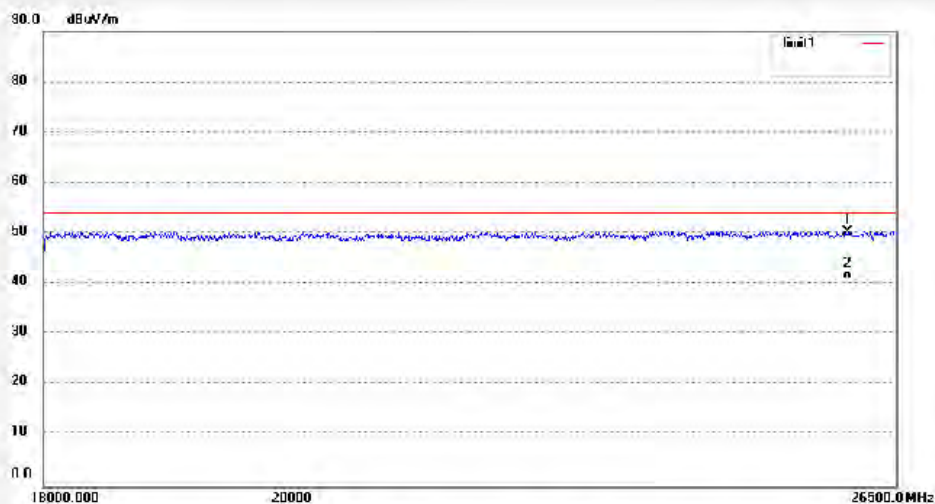
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lgwade #2687
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2402MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	25922.172	33.76	16.50	50.26	74.00	-23.74	peak			
2	25922.172	24.34	16.50	40.84	54.00	-13.16	AVG			



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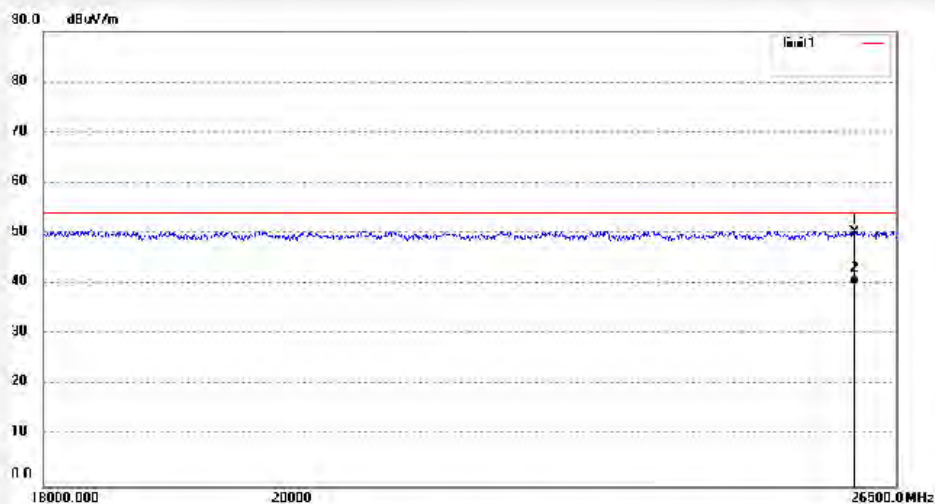
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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No.: lgwade #2688
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2441MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	26002.504	33.87	16.50	50.37	74.00	-23.63	peak			
2	26002.504	23.51	16.50	40.01	54.00	-13.99	AVG			



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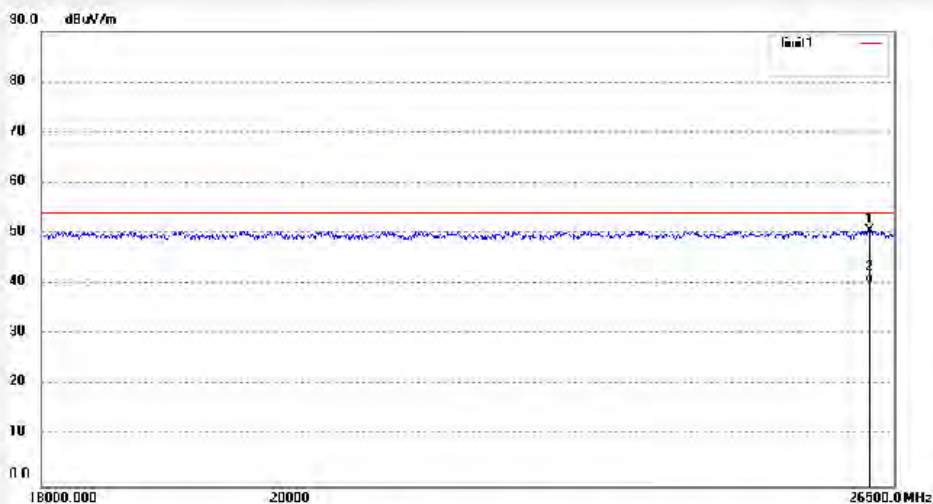
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Site: 2# Chamber
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Job No.: lgwade #2689
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2441MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	26204.426	33.42	17.10	50.52	74.00	-23.48	peak			
2	26204.426	23.13	17.10	40.23	54.00	-13.77	AVG			



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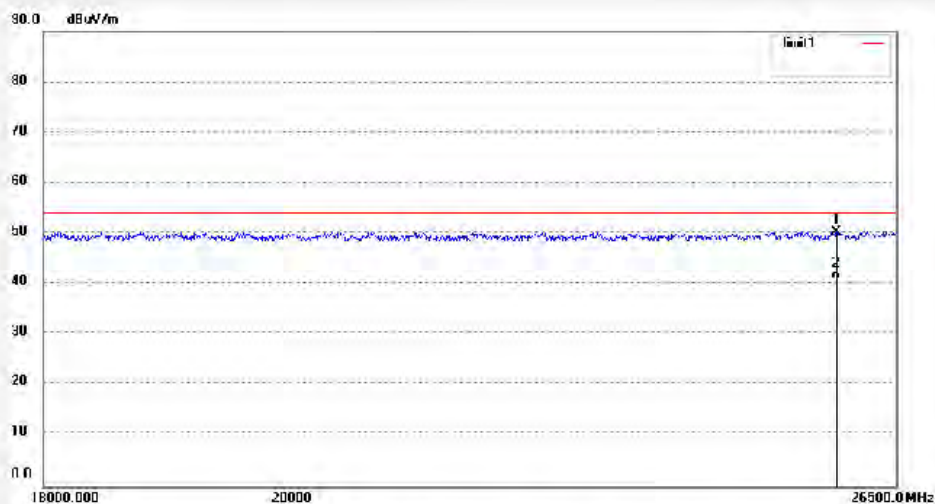
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Job No.: lgwade #2690
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2480MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	25792.161	32.86	17.37	50.23	74.00	-23.77	peak			
2	25792.161	23.45	17.37	40.82	54.00	-13.18	AVG			



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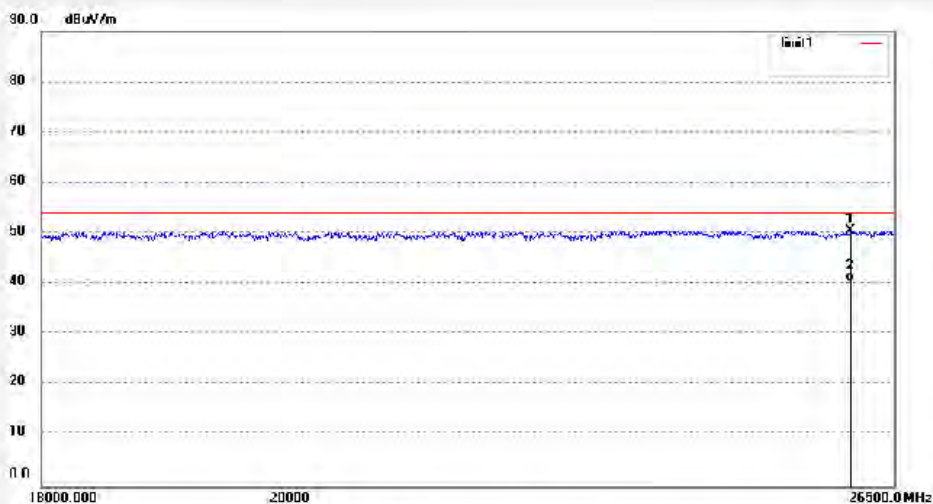
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Site: 2# Chamber
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Job No.: lgwade #2691
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2480MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	25982.398	33.99	16.50	50.49	74.00	-23.51	peak			
2	25982.398	23.81	16.50	40.31	54.00	-13.69	AVG			

Low Energy mode, 9KHz - 30MHz

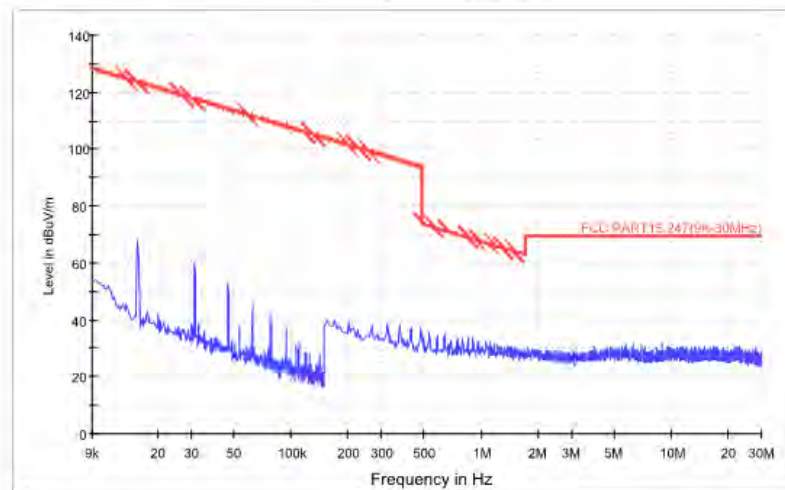
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RADIATED EMISSION

Common Information

Test Description: EMC32 Standard Report Setup
Operating Conditions:
Operator Name:

FCC PART15.247(9K-30MHz)



Protocol

Test Start: 2016-7-16 10:22:32
Test Stop: 2016-7-16 10:24:57

EUT Information

EUT Name: Bluetooth Receiver Kit M/N: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory
Operation Mode: TX 2402MHz
Operator: LGWADE
Power: DC 3.7V
Antenna Polarization: X
Comment:

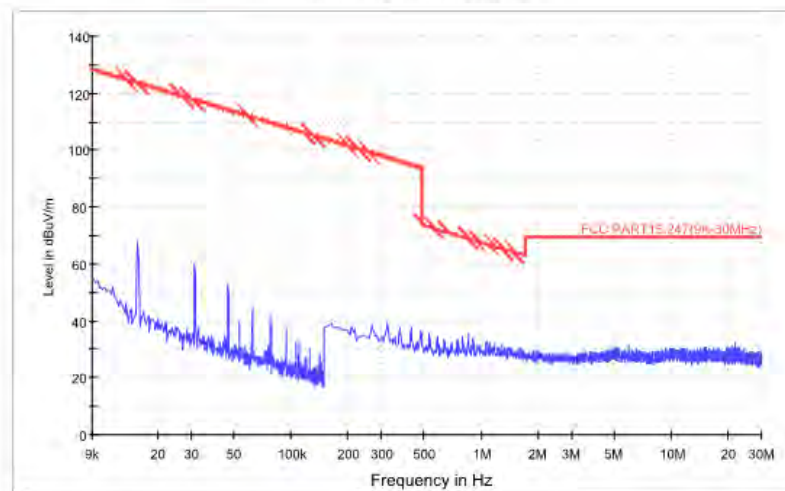
ACCURATE TECHNOLOGY CO.,LTD

RADIATED EMISSION

Common Information

Test Description: EMC32 Standard Report Setup
Operating Conditions:
Operator Name:

FCC PART15.247(9K-30MHz)



Protocol

Test Start: 2016-7-16 10:25:32
Test Stop: 2016-7-16 10:27:57

EUT Information

EUT Name:	Bluetooth Receiver Kit M/N: NS-MBTK35, NS-MBTK35-C
Manufacturer:	Anfair Electronics Plastic Factory
Operation Mode:	TX 2440MHz
Operator	LGWADE
Power :	DC 3.7V
Antenna Polarization:	Y
Comment:	

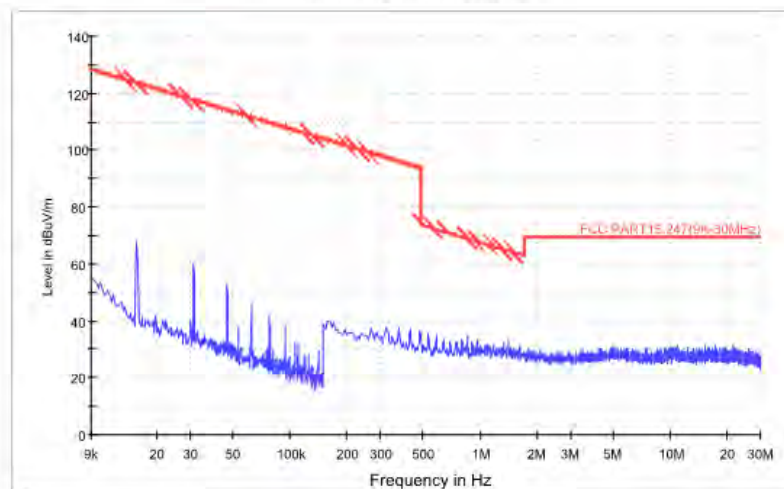
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RADIATED EMISSION

Common Information

Test Description: EMC32 Standard Report Setup
Operating Conditions:
Operator Name:

FCC PART15.247(9K-30MHz)



Protocol

Test Start: 2016-7-16 10:28:33
Test Stop: 2016-7-16 10:30:58

EUT Information

EUT Name:	Bluetooth Receiver Kit M/N: NS-MBTK35, NS-MBTK35-C
Manufacturer:	Anfair Electronics Plastic Factory
Operation Mode:	TX 2480MHz
Operator	LGWADE
Power :	DC 3.7V
Antenna Polarization:	Z
Comment:	

Low Energy mode, 30MHz - 1GHz



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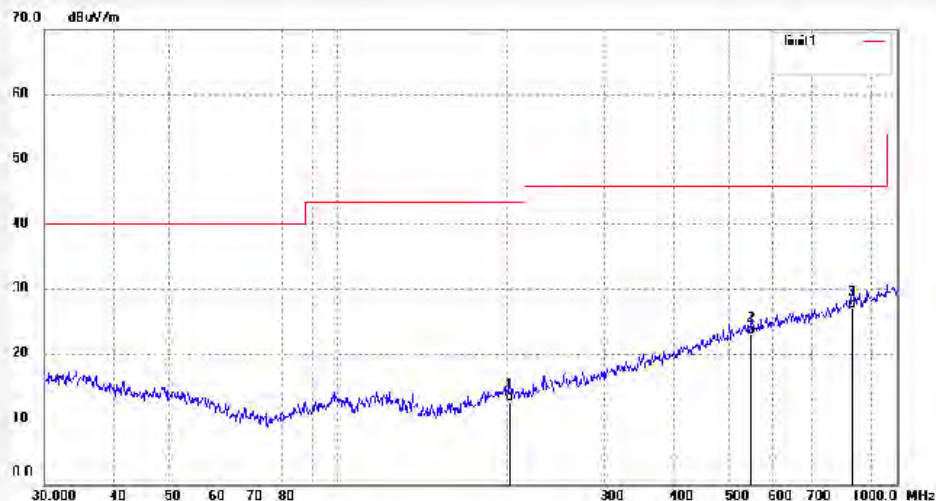
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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Site: 2# Chamber
Tel:+86-0755-26503290
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Job No.: lgwade #2714
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2402MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	203.5227	25.07	-12.34	12.73	43.50	-30.77	QP			
2	549.0193	26.58	-3.65	22.93	46.00	-23.07	QP			
3	830.4002	26.56	0.54	27.10	46.00	-18.90	QP			



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Fax:+86-0755-26503396

Job No.: lgwade #2715

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Receiver Kit

Mode: TX 2402MHz

Model: NS-MBTK35, NS-MBTK35-C

Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 3.7V

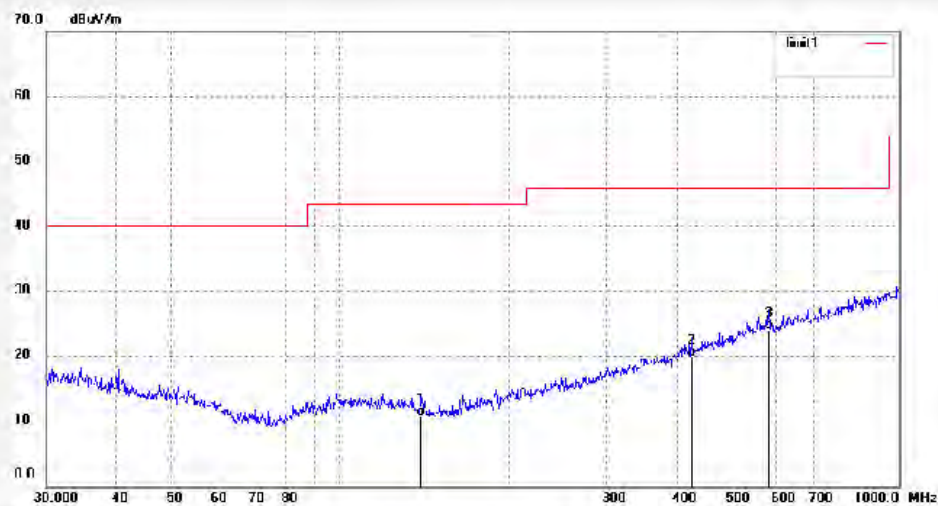
Date: 16/07/16/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	139.8506	25.91	-15.20	10.71	43.50	-32.79	QP			
2	425.0280	25.99	-6.16	19.83	46.00	-26.17	QP			
3	584.7894	27.09	-3.09	24.00	46.00	-22.00	QP			



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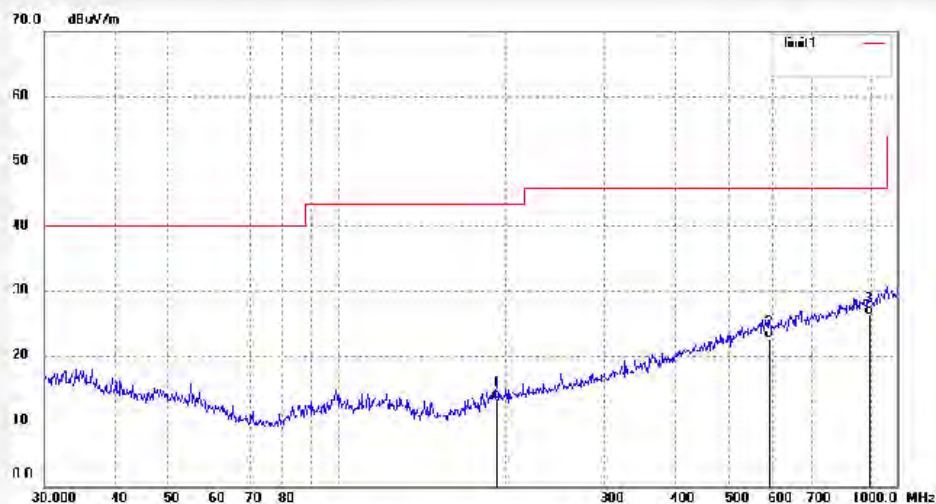
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lgwade #2716
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2440MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	192.4183	25.88	-12.56	13.32	43.50	-30.18	QP			
2	590.9737	25.63	-3.04	22.59	46.00	-23.41	QP			
3	890.7278	25.15	1.27	26.42	46.00	-19.58	QP			



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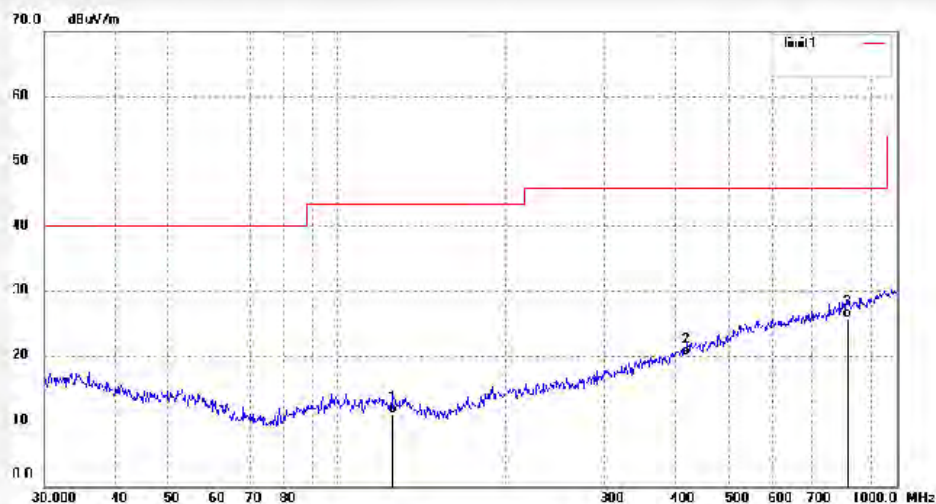
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Job No.: lgwade #2717
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2440MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	125.8863	24.94	-13.76	11.18	43.50	-32.32	QP			
2	420.5803	26.16	-6.15	20.01	46.00	-25.99	QP			
3	815.9678	25.54	0.27	25.81	46.00	-20.19	QP			



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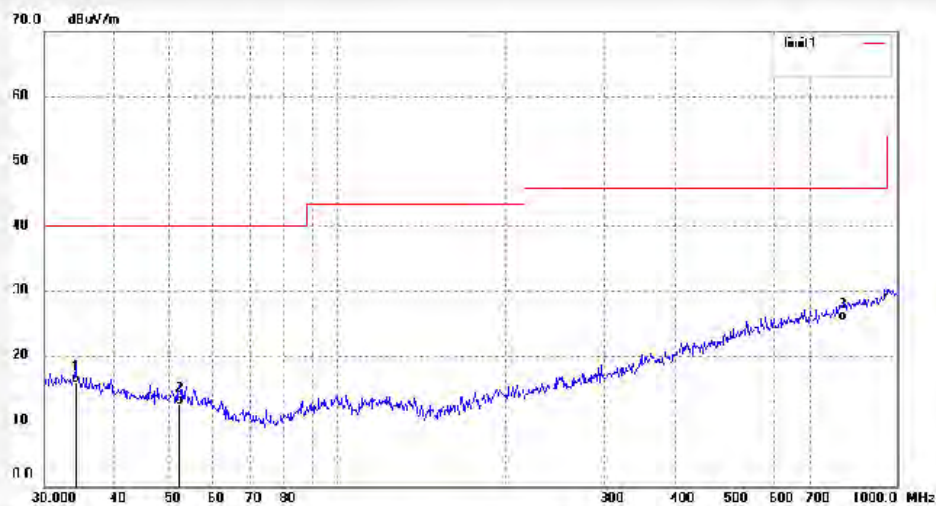
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Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lgwade #2718
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2480MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth4.0



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	26.21	-10.32	15.89	40.00	-24.11	QP			
2	52.2079	25.19	-12.76	12.43	40.00	-27.57	QP			
3	801.7862	25.46	0.07	25.53	46.00	-20.47	QP			



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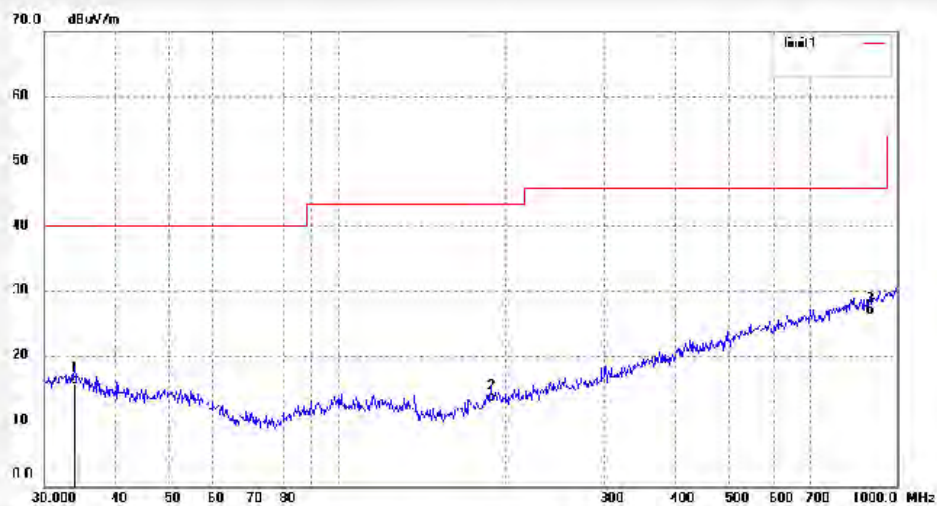
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Site: 2# Chamber
Tel:+86-0755-26503290
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Job No.: lgwade #2719
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2480MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.9174	25.68	-10.10	15.58	40.00	-24.42	QP			
2	188.4124	25.53	-12.66	12.87	43.50	-30.63	QP			
3	893.8567	25.07	1.26	26.33	46.00	-19.67	QP			

Low Energy mode, 1GHz - 18GHz



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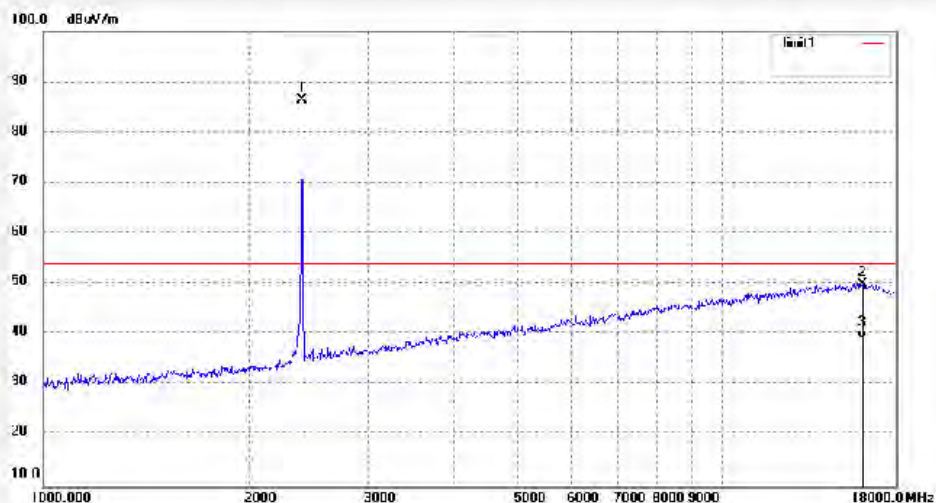
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lgwade #2692
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2402MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	2402.000	93.79	-7.45	86.34	/	/	peak			
2	16081.142	9.82	40.05	49.87	74.00	-24.13	peak			
3	16081.142	-0.82	40.05	39.23	54.00	-14.77	AVG			



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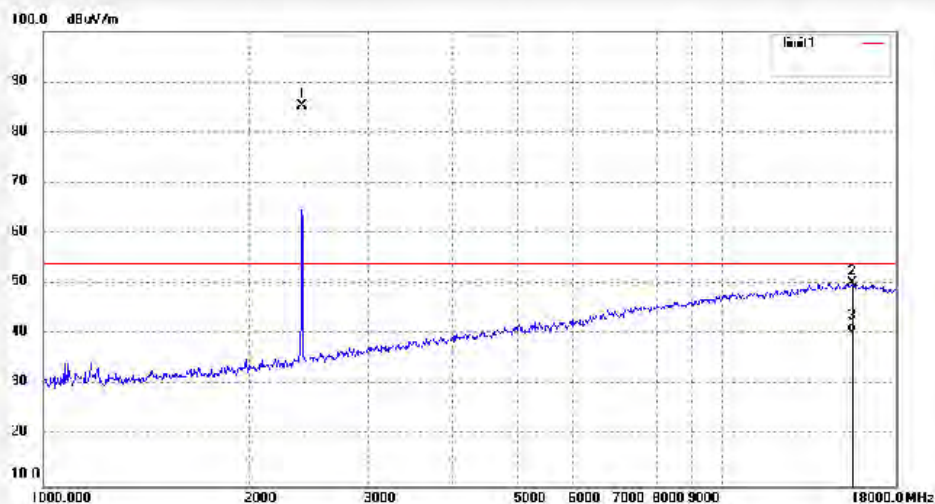
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lgwade #2693
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2402MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	2402.000	92.80	-7.45	85.35	/	/	peak			
2	15532.938	10.12	40.09	50.21	74.00	-23.79	peak			
3	15532.938	0.36	40.09	40.45	54.00	-13.55	AVG			



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Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lgwade #2696

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Receiver Kit

Mode: TX 2440MHz

Model: NS-MBTK35, NS-MBTK35-C

Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 3.7V

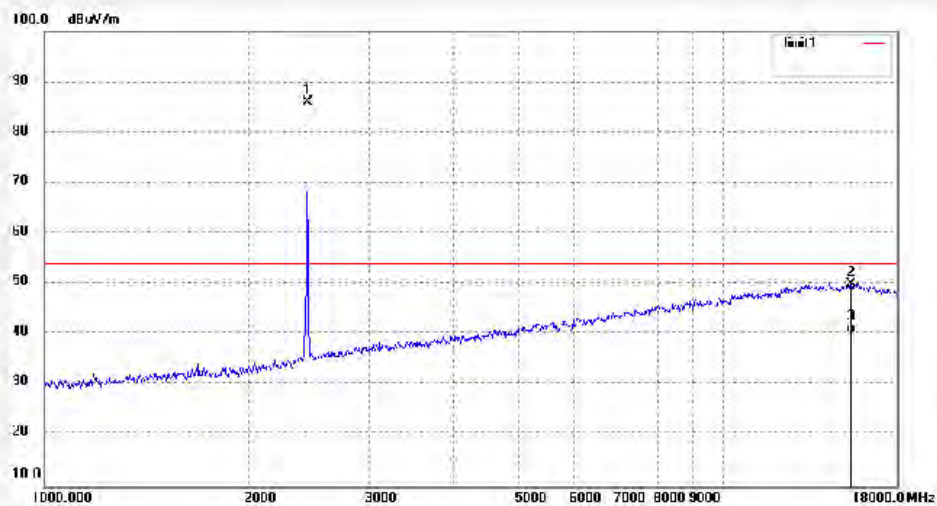
Date: 16/07/16/

Time:

Engineer Signature: LGWADE

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	93.28	-7.36	85.92	/	/	peak			
2	15398.832	9.73	40.30	50.03	74.00	-23.97	peak			
3	15398.832	-0.04	40.30	40.26	54.00	-13.74	AVG			



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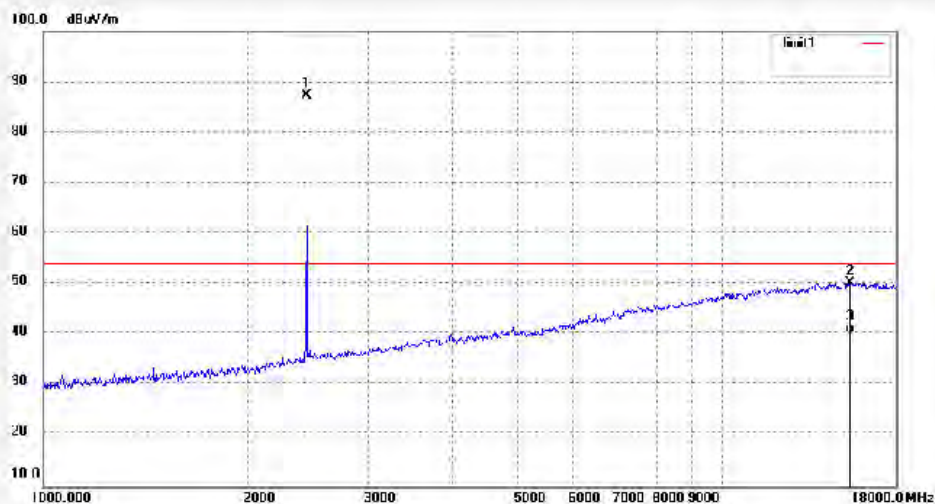
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
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Site: 2# Chamber
Tel:+86-0755-26503290
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Job No.: lgwade #2697
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2440MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	94.70	-7.36	87.34	/	/	peak			
2	15398.832	9.92	40.30	50.22	74.00	-23.78	peak			
3	15398.832	0.05	40.30	40.35	54.00	-13.65	AVG			



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Job No.: lgwade #2698

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Receiver Kit

Mode: TX 2480MHz

Model: NS-MBTK35, NS-MBTK35-C

Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 3.7V

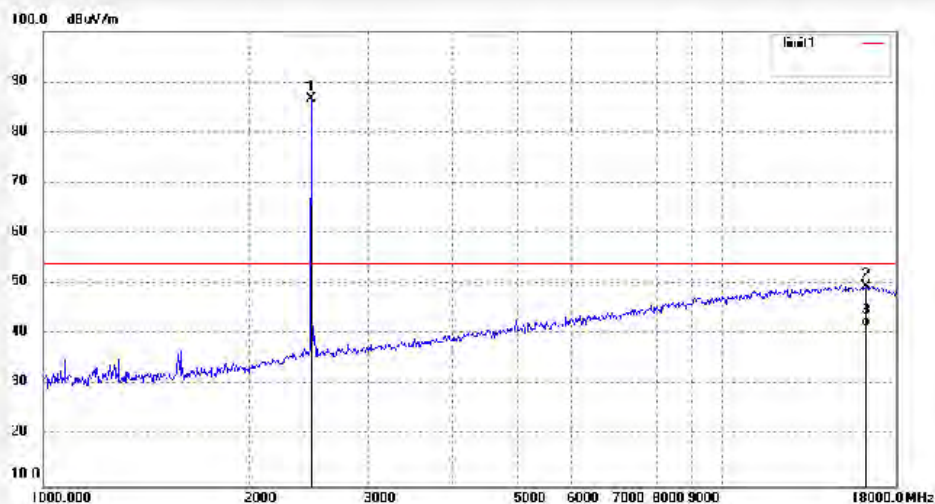
Date: 16/07/16/

Time:

Engineer Signature: LGWADE

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	2480.000	94.03	-7.37	86.66	/	/	peak			
2	16221.189	9.26	40.13	49.39	74.00	-24.61	peak			
3	16221.189	1.45	40.13	41.58	54.00	-12.42	AVG			



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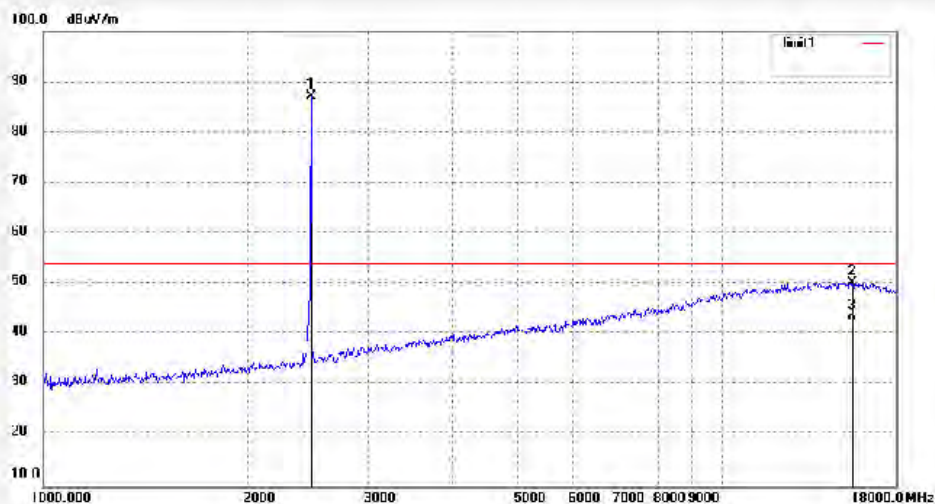
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
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Job No.: lgwade #2699
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2480MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	2480.000	94.47	-7.37	87.10	/	/	peak			
2	15488.107	10.13	40.12	50.25	74.00	-23.75	peak			
3	15488.107	2.46	40.12	42.58	54.00	-11.42	AVG			

Low Energy mode, 18GHz - 26.5GHz



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Job No.: lgwade #2702

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Receiver Kit

Mode: TX 2402MHz

Model: NS-MBTK35, NS-MBTK35-C

Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 3.7V

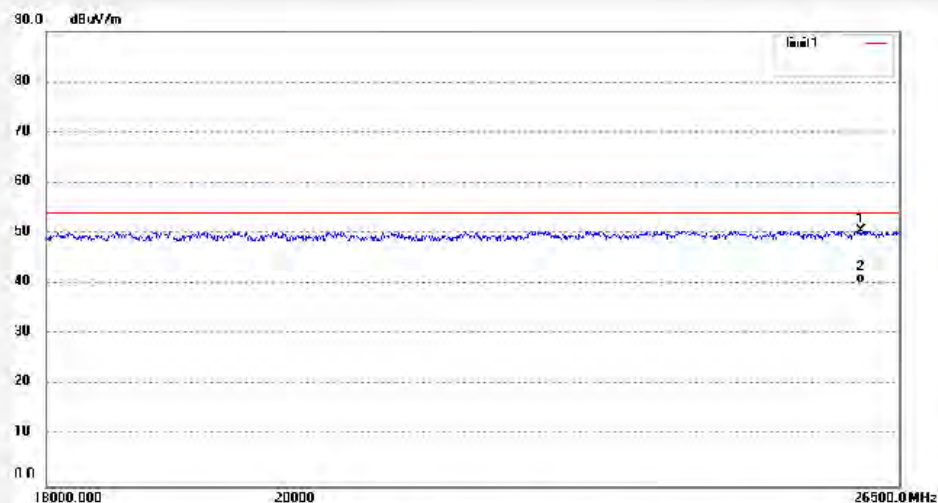
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Time:

Engineer Signature: LGWADE

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	26042.764	34.07	16.50	50.57	74.00	-23.43	peak			
2	26042.764	23.71	16.50	40.21	54.00	-13.79	AVG			



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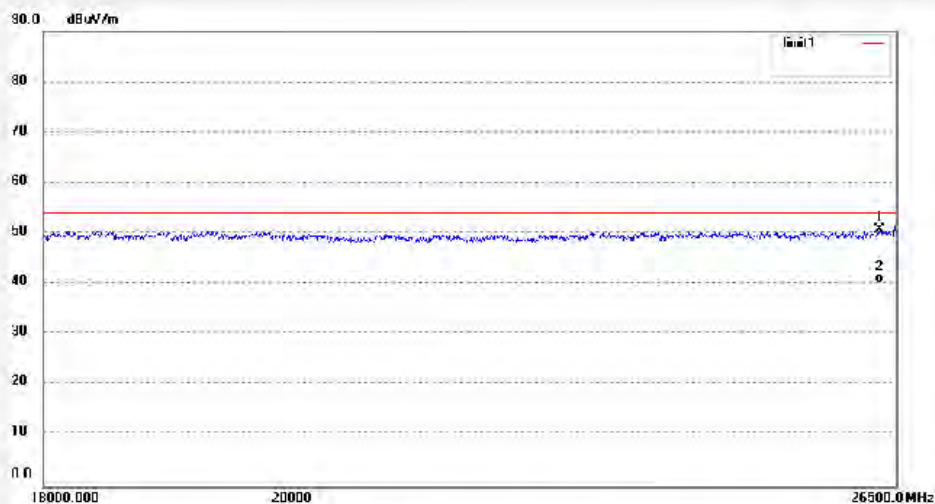
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Job No.: lgwade #2703
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2402MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	26295.801	33.67	17.04	50.71	74.00	-23.29	peak			
2	26295.801	23.19	17.04	40.23	54.00	-13.77	AVG			



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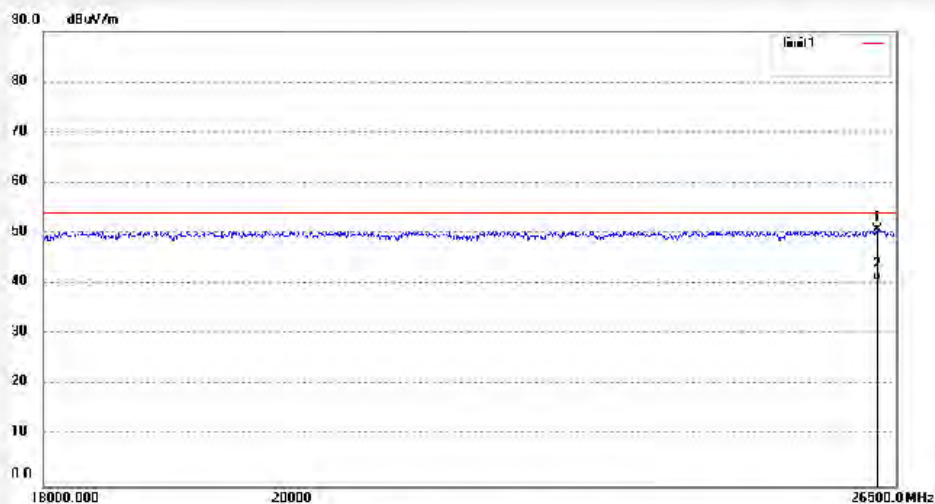
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Site: 2# Chamber
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Job No.: lgwade #2704
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2440MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	26275.468	33.67	17.05	50.72	74.00	-23.28	peak			
2	26275.468	23.53	17.05	40.58	54.00	-13.42	AVG			



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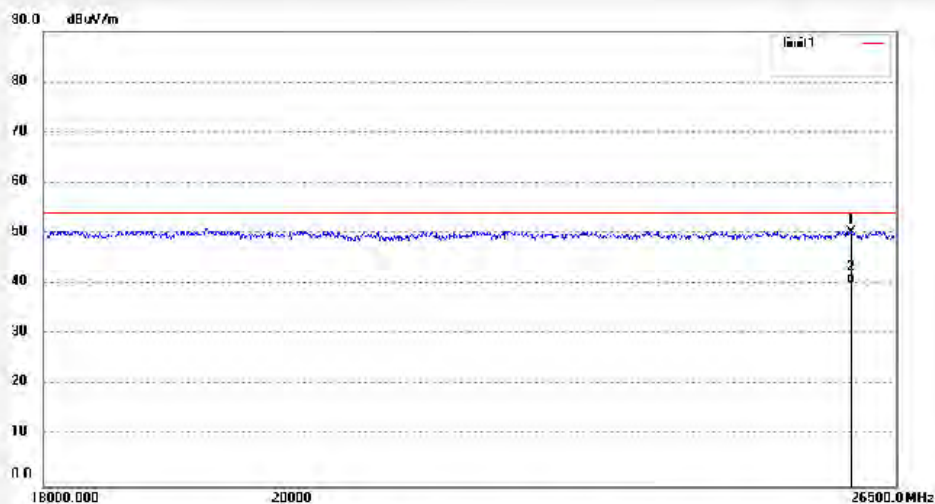
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lgwade #2705
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2440MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	25962.307	33.90	16.50	50.40	74.00	-23.60	peak			
2	25962.307	23.77	16.50	40.27	54.00	-13.73	AVG			



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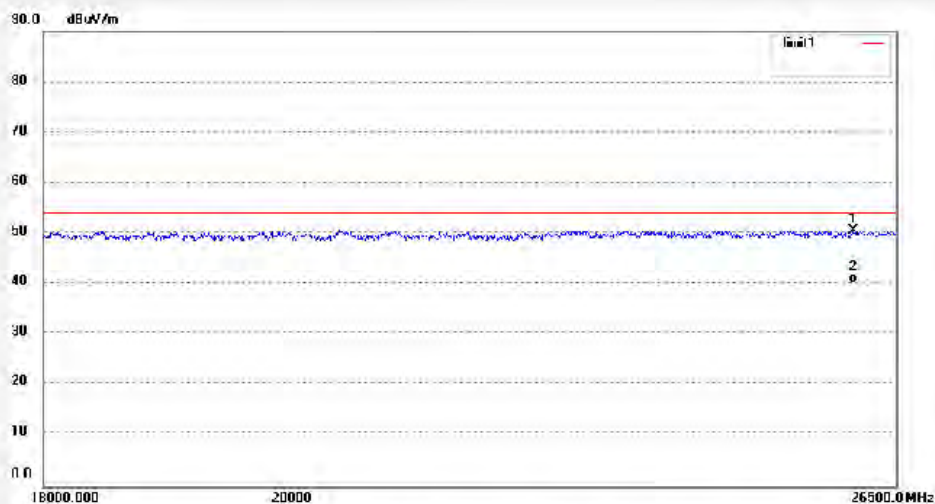
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lgwade #2706
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2480MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	25992.449	34.02	16.50	50.52	74.00	-23.48	peak			
2	25992.449	23.61	16.50	40.11	54.00	-13.89	AVG			



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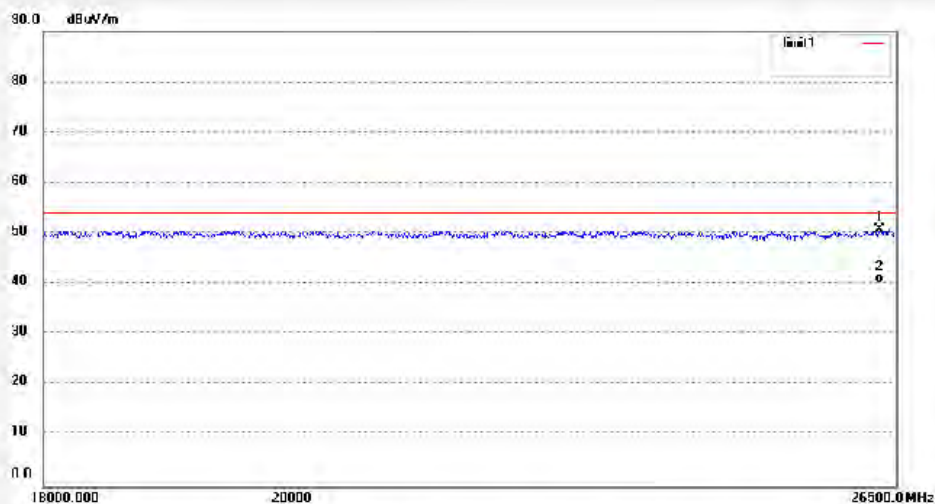
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lgwade #2707
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2480MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	26295.801	33.68	17.04	50.72	74.00	-23.28	peak			
2	26295.801	23.17	17.04	40.21	54.00	-13.79	AVG			

Appendix B.2: Test Plots of Band Edge (Radiated)

BDR mode, Low Channel



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Fax:+86-0755-26503396

Job No.: lgwade #2678

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Bluetooth Receiver Kit

Mode: TX 2402MHz

Model: NS-MBTK35, NS-MBTK35-C

Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 3.7V

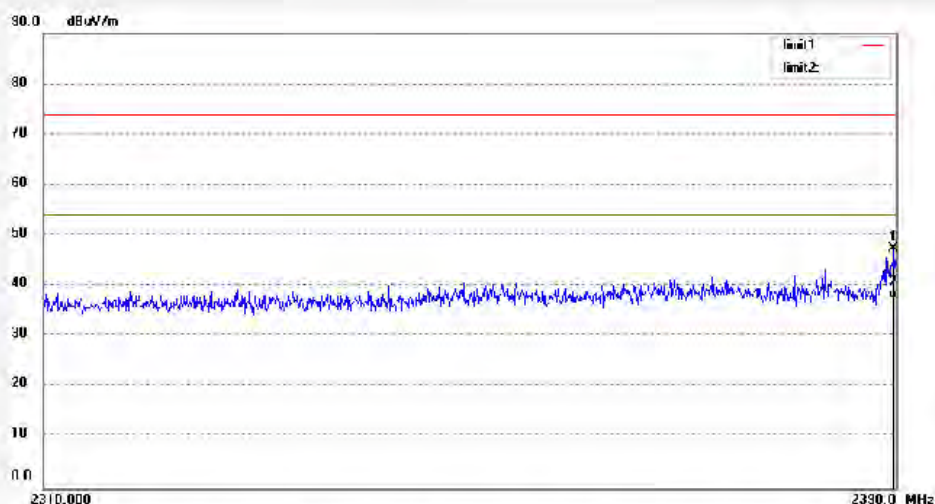
Date: 16/07/16/

Time:

Engineer Signature: LGWADE

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	2389.760	54.89	-7.53	47.36	74.00	-26.64	peak			
2	2389.760	45.04	-7.53	37.51	54.00	-16.49	AVG			



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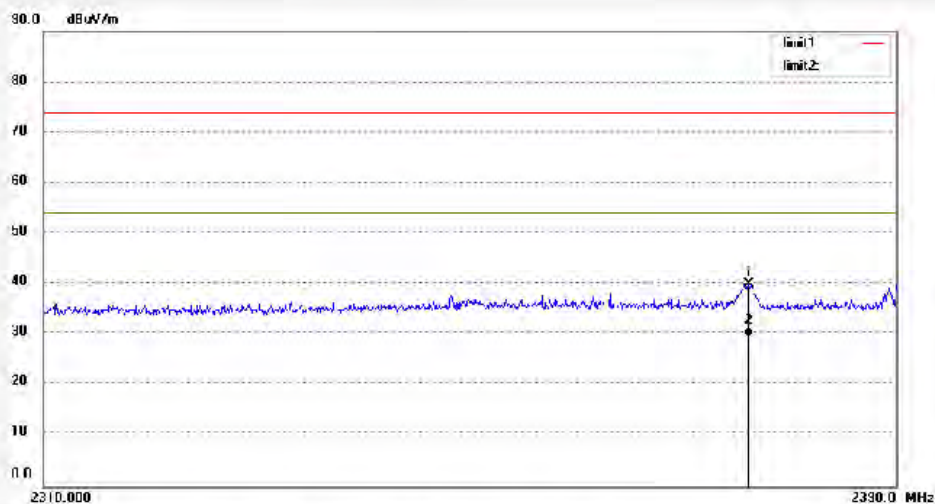
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lgwade #2679
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2402MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

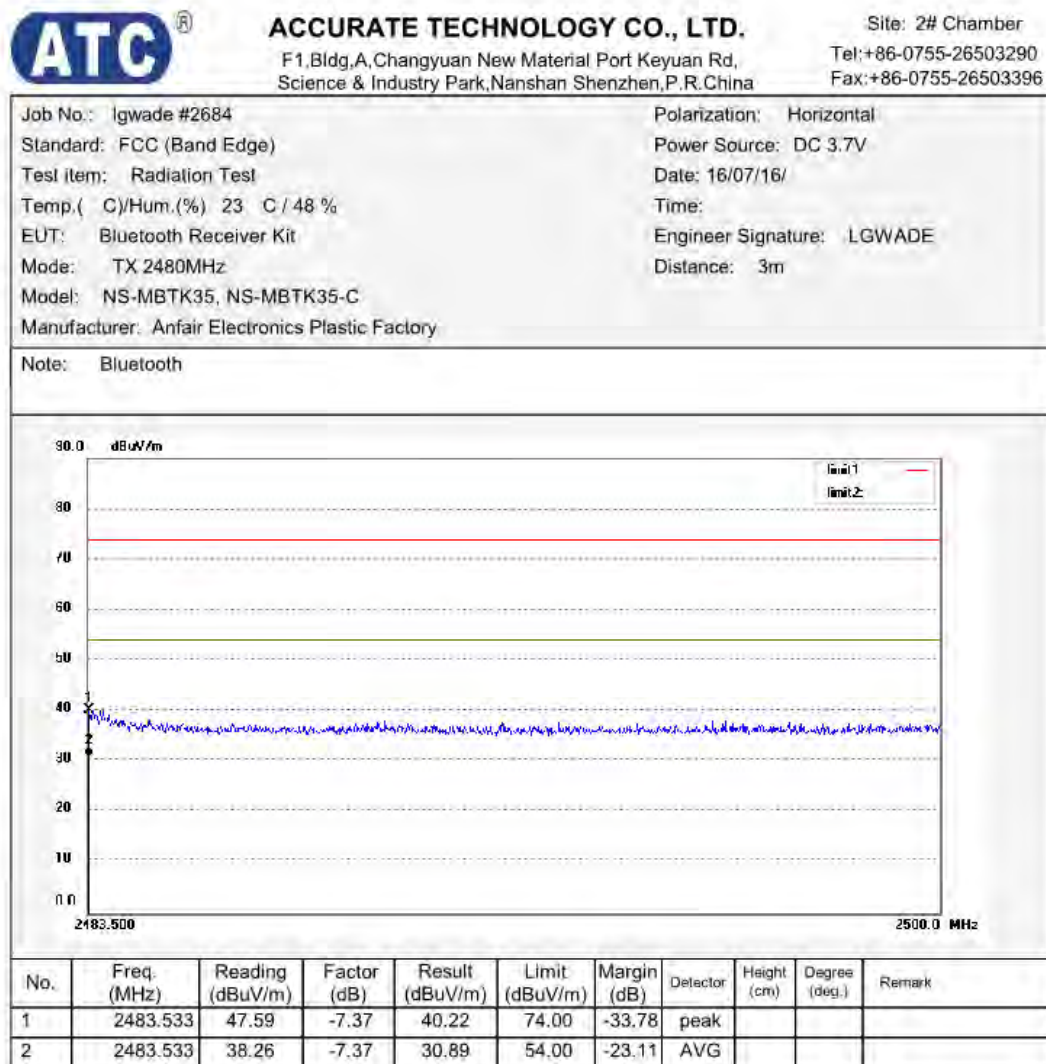
Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
Distance: 3m

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	2376.000	47.51	-7.62	39.89	74.00	-34.11	peak			
2	2376.000	37.19	-7.62	29.57	54.00	-24.43	AVG			

BDR mode, High Channel





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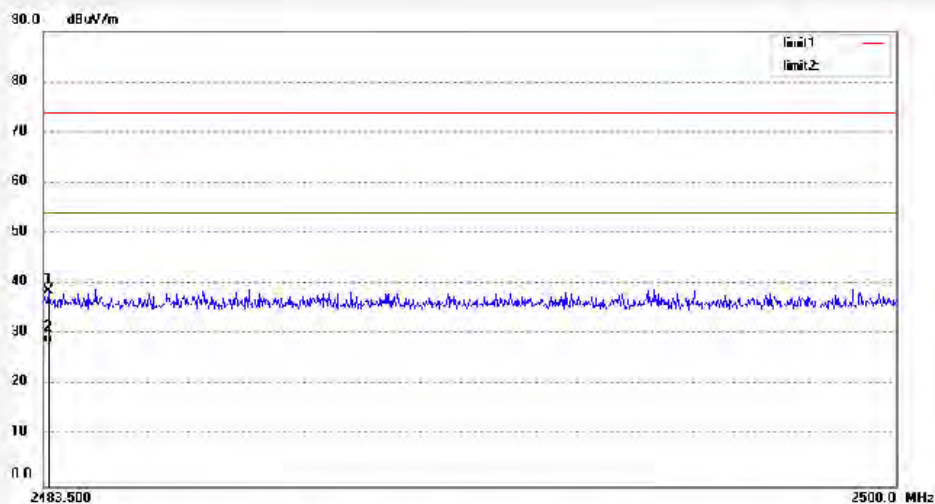
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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Job No.: lgwade #2685
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2480MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	2483.599	45.86	-7.37	38.49	74.00	-35.51	peak			
2	2483.599	35.70	-7.37	28.33	54.00	-25.67	AVG			

Low Energy mode, Low Channel



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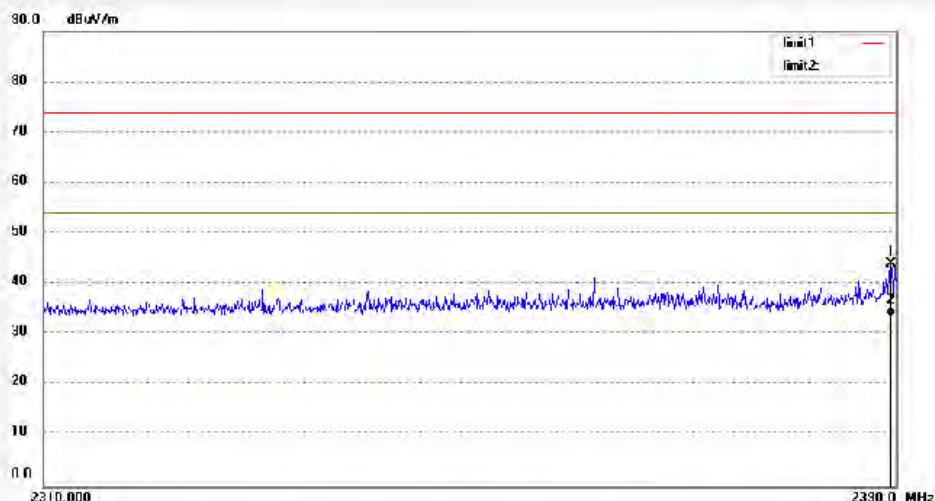
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Job No.: lgwade #2694
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2402MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	2389.520	51.49	-7.53	43.96	74.00	-30.04	peak			
2	2389.520	41.07	-7.53	33.54	54.00	-20.46	AVG			



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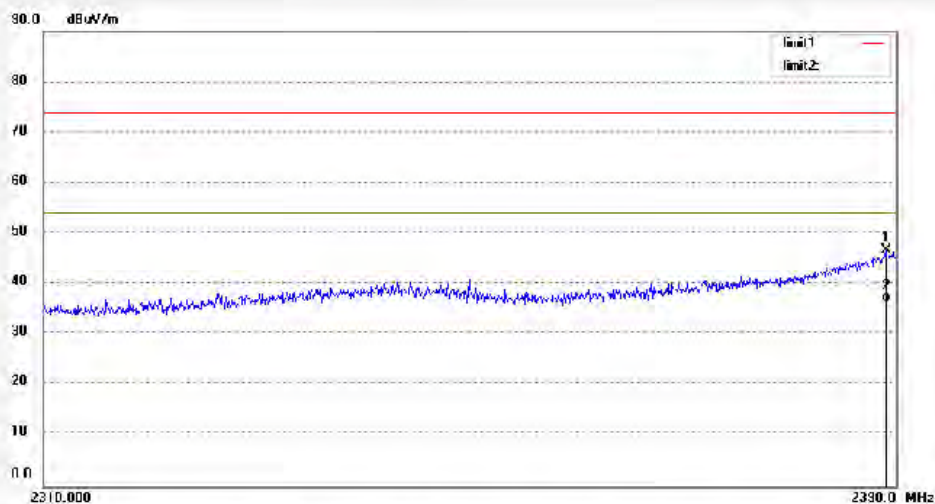
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Job No.: lgwade #2695
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: TX 2402MHz
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 3.7V
Date: 16/07/16/
Time:
Engineer Signature: LGWADE
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	2389.040	54.18	-7.53	46.65	74.00	-27.35	peak			
2	2389.040	43.94	-7.53	36.41	54.00	-17.59	AVG			

Low Energy mode, High Channel



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Job No.: lgwade #2700

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Bluetooth Receiver Kit

Mode: TX 2480MHz

Model: NS-MBTK35, NS-MBTK35-C

Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 3.7V

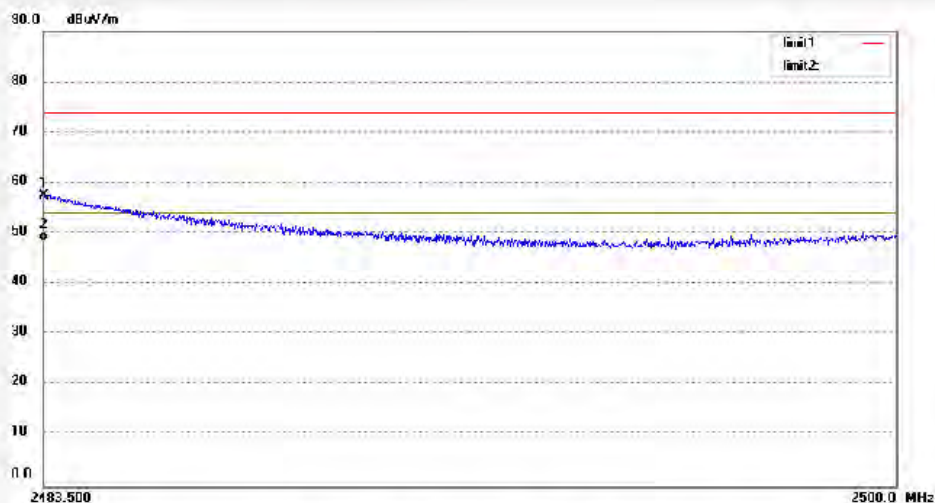
Date: 16/07/16/

Time:

Engineer Signature: LGWADE

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	64.78	-7.37	57.41	74.00	-16.59	peak			
2	2483.500	55.90	-7.37	48.53	54.00	-5.47	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.: lgwade #2701

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Bluetooth Receiver Kit

Mode: TX 2480MHz

Model: NS-MBTK35, NS-MBTK35-C

Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 3.7V

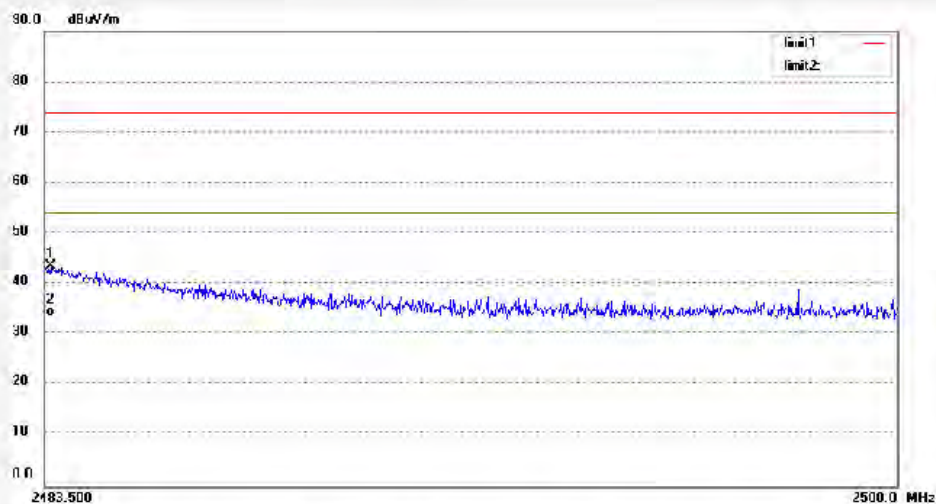
Date: 16/07/16/

Time:

Engineer Signature: LGWADE

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	2483.615	50.94	-7.37	43.57	74.00	-30.43	peak			
2	2483.615	40.95	-7.37	33.58	54.00	-20.42	AVG			

Appendix B.3: Test Plots of Conducted Emission

C Mode

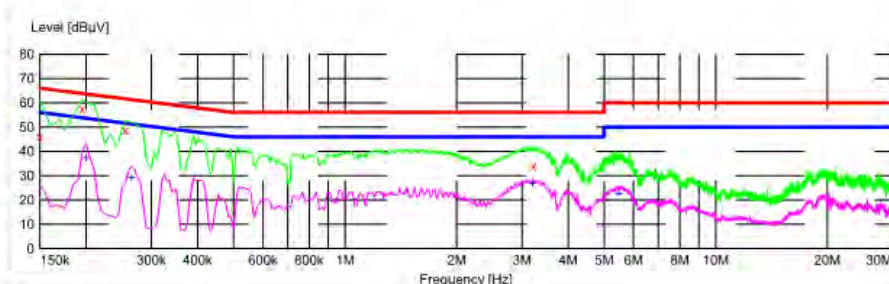
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CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Bluetooth Receiver Kit M/N: NS-MBTK35, NS-MBTK35-C
 Manufacturer: Anfair Electronics Plastic Factory
 Operating Condition: TX
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 7/16/2016 /

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
 150.0 kHz 30.0 MHz 5.0 kHz Average
 QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



* * * MRE T-0716-3_fin
 * * * MRE T-0716-3_fin2
 * * * MRE T-0716-3_fin2
 * * * MRE T-0716-3_fin2
 * * * LIM FCC 15B V QP Voltage: 0V
 * * * LIM FCC 15B V AV Voltage: 0V

MEASUREMENT RESULT: "T-0716-3_fin"

7/16/2016

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	46.00	10.5	66	20.0	QP	N	GND
0.195000	57.50	10.5	64	6.3	QP	N	GND
0.255000	48.70	10.6	62	12.9	QP	N	GND
3.220000	33.90	11.1	56	22.1	QP	N	GND

MEASUREMENT RESULT: "T-0716-3_fin2"

7/16/2016

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.200000	37.20	10.5	54	16.4	AV	N	GND
0.265000	29.10	10.6	51	22.2	AV	N	GND
3.200000	26.60	11.1	46	19.4	AV	N	GND
5.470000	22.60	11.2	50	27.4	AV	N	GND

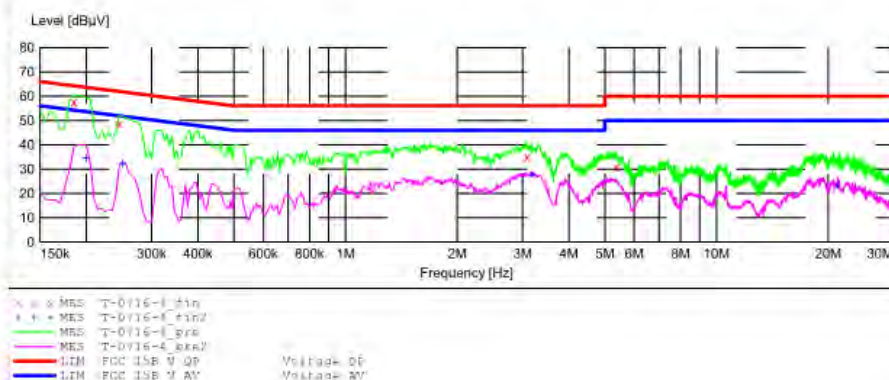
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Bluetooth Receiver Kit M/N:NS-MBTK35, NS-MBTK35-C
 Manufacturer: Anfair Electronics Plastic Factory
 Operating Condition: TX
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 7/16/2016 /

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

Short Description:		SUB STD VTERM2 1.70					
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK8126 2008	
150.0 kHz	30.0 MHz	5.0 kHz	Average	1.0 s	9 kHz	NSLK8126 2008	
			Average				



MEASUREMENT RESULT: "T-0716-4_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.165000	57.60	10.5	64	6.7	QP	L1	GND
0.245000	48.70	10.6	62	13.2	QP	L1	GND
3.080000	35.10	11.1	56	20.9	QP	L1	GND
5.370000	30.80	11.2	60	29.2	QP	L1	GND

MEASUREMENT RESULT: "T-0716-4_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.200000	34.50	10.5	54	19.1	AV	L1	GND
0.250000	32.20	10.6	52	19.6	AV	L1	GND
3.160000	27.60	11.1	46	18.4	AV	L1	GND
21.190000	23.10	11.4	50	26.9	AV	L1	GND

D Mode

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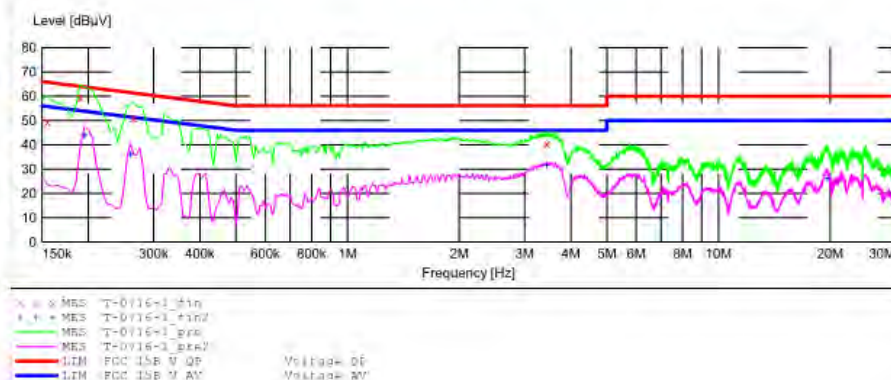
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Bluetooth Receiver Kit M/N: NS-MBTK35, NS-MBTK35-C
 Manufacturer: Anfair Electronics Plastic Factory
 Operating Condition: Charging
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 7/16/2016 /

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

Short Description: SUB STD VTERM2 1.7G

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	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "T-0716-1_fin"

7/16/2016								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.155000	49.50	10.5	66	16.2	QP	L1	GND	
0.190000	59.60	10.5	64	4.4	QP	L1	GND	
0.265000	51.20	10.6	61	10.1	QP	L1	GND	
3.440000	40.40	11.1	56	15.6	QP	L1	GND	

MEASUREMENT RESULT: "T-0716-1_fin2"

7/16/2016								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.195000	43.90	10.5	54	9.9	AV	L1	GND	
0.260000	36.00	10.6	51	15.4	AV	L1	GND	
3.440000	31.40	11.1	46	14.6	AV	L1	GND	
19.660000	26.20	11.4	50	23.8	AV	L1	GND	

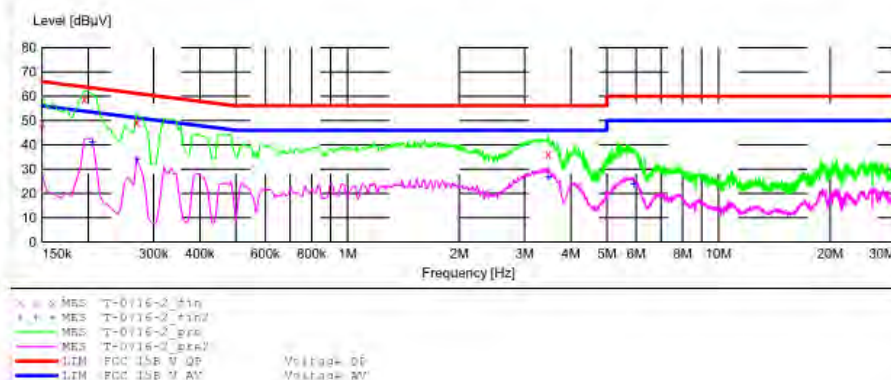
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Bluetooth Receiver Kit M/N: NS-MBTK35, NS-MBTK35-C
 Manufacturer: Anfair Electronics Plastic Factory
 Operating Condition: Charging
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 7/16/2016 /

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

Short Description:		SUB STD VTERM2 1.70					
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK8126 2008	
			Average				
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008	
			Average				



MEASUREMENT RESULT: "T-0716-2_fin"

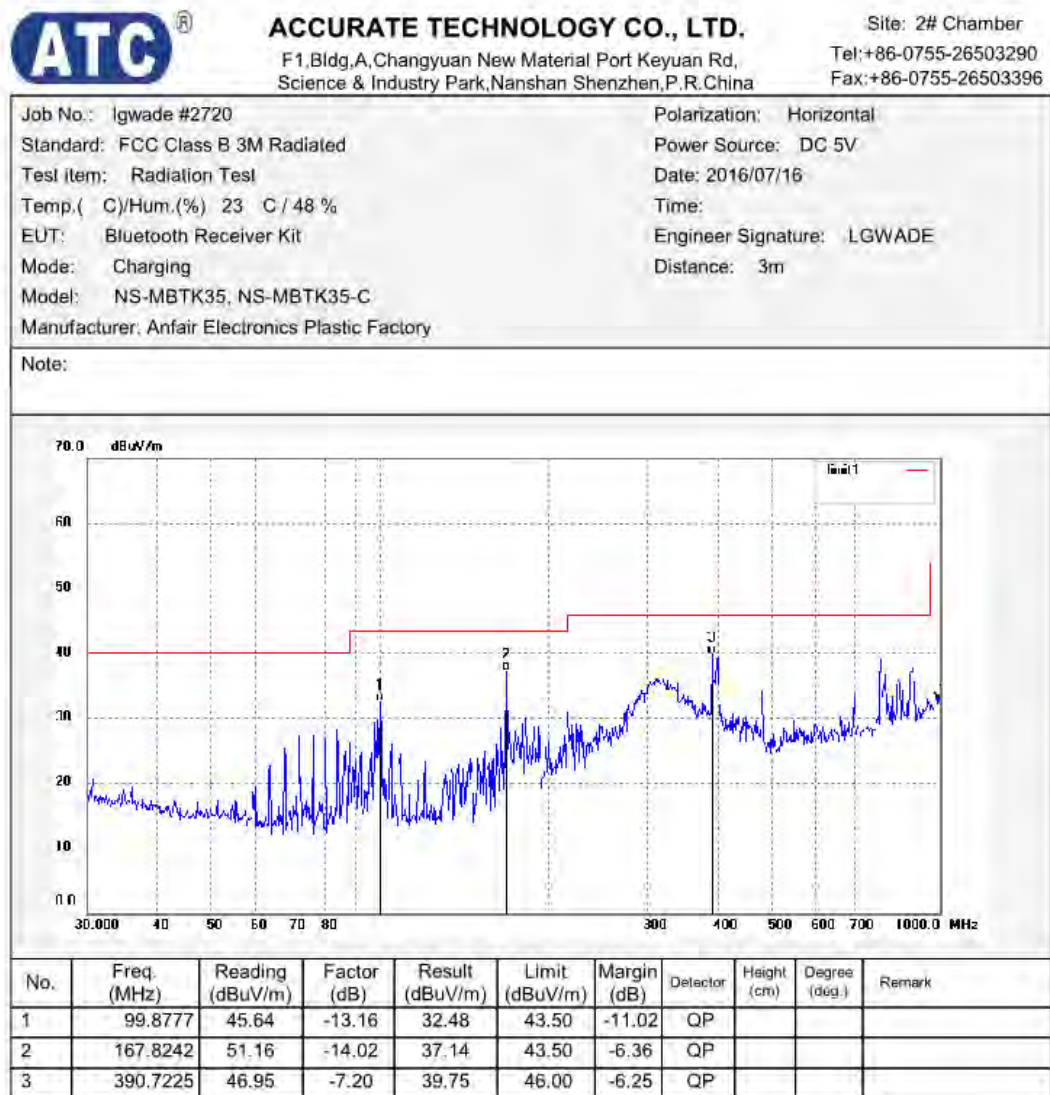
7/16/2016								
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.150000	49.30	10.5	66	16.7	QP	N	GND	
0.195000	58.70	10.5	64	5.1	QP	N	GND	
0.270000	49.30	10.6	61	11.8	QP	N	GND	
3.470000	36.20	11.1	56	19.8	QP	N	GND	

MEASUREMENT RESULT: "T-0716-2_fin2"

7/16/2016								
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.205000	41.10	10.5	53	12.3	AV	N	GND	
0.270000	34.10	10.6	51	17.0	AV	N	GND	
3.480000	26.60	11.1	46	19.4	AV	N	GND	
5.900000	23.80	11.2	50	26.2	AV	N	GND	

Appendix B.4: Test Plots of Radiated Emission

D Mode





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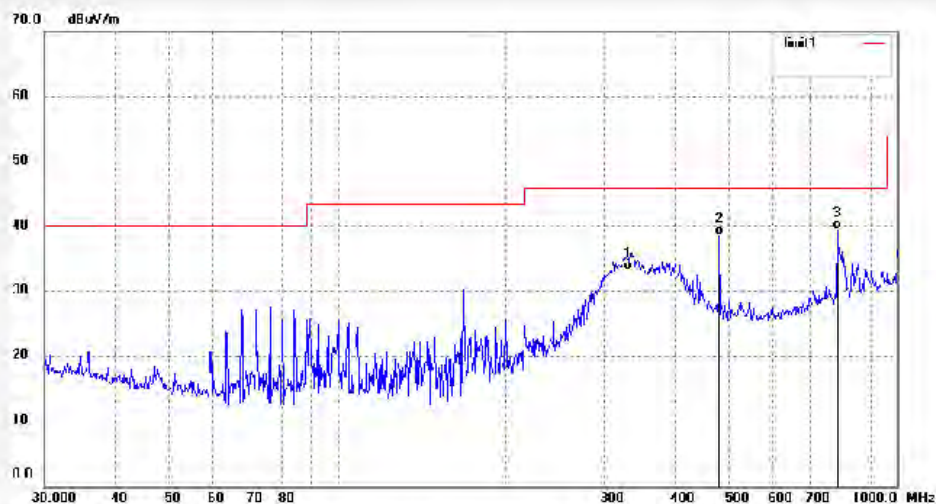
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lgwade #2721
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: Charging
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 5V
Date: 2016/07/16
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	331.3546	41.52	-8.32	33.20	46.00	-12.80	QP			
2	480.5276	43.97	-5.34	38.63	46.00	-7.37	QP			
3	782.3452	39.91	-0.37	39.54	46.00	-6.46	QP			



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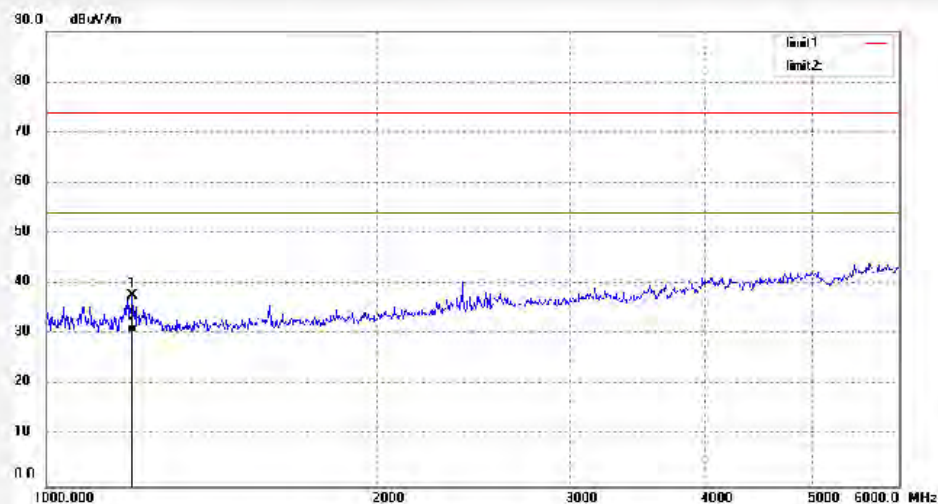
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lgwade #2722
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: Charging
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Vertical
Power Source: DC 5V
Date: 2016/07/16
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1198.377	50.14	-12.49	37.65	74.00	-36.35	peak			
2	1198.377	42.65	-12.49	30.16	54.00	-23.84	AVG			



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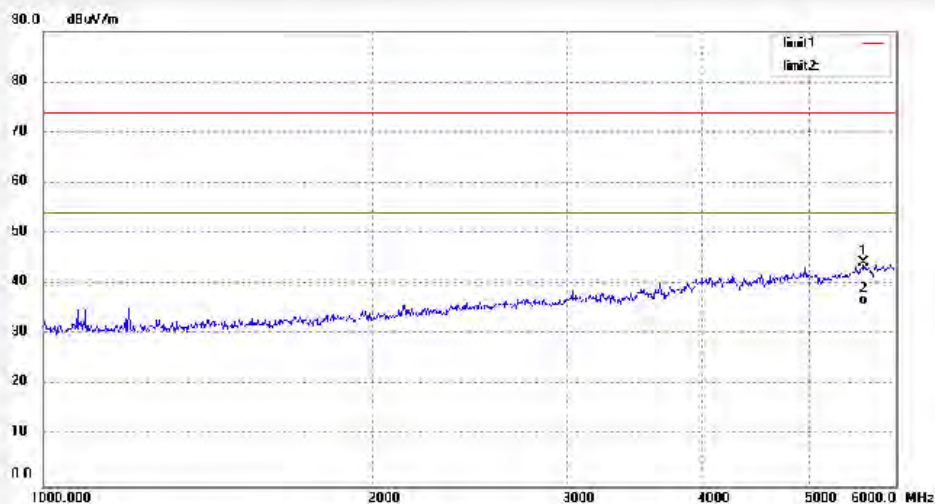
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lgwade #2723
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth Receiver Kit
Mode: Charging
Model: NS-MBTK35, NS-MBTK35-C
Manufacturer: Anfair Electronics Plastic Factory

Polarization: Horizontal
Power Source: DC 5V
Date: 2016/07/16
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5605.076	42.81	1.44	44.25	74.00	-29.75	peak			
2	5605.076	34.56	1.44	36.00	54.00	-18.00	AVG			