



FCC PART 15.247 TEST REPORT

For

Imobiile Technology, L.L.C

8227 NW 68 ST., MIAMI, FLORIDA 33166, USA

FCC ID: ZOTKOOL

Report Type: **Product Type:** Original Report Mobile Phone Eric Lee **Test Engineer:** Eric Lee **Report Number:** RSZ120109001-00B **Report Date:** 2012-02-28 Alvin Huang Reviewed By: EMC Engineer Bay Area Compliance Laboratories Corp. (Shenzhen) **Test Laboratory:** 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008

Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP*, or any agency of the Federal Government.

www.baclcorp.com.cn

^{*} This report contains data that are not covered by the NVLAP accreditation and are marked with an asterisk "★" (Rev.2)

TABLE OF CONTENTS

GENERAL INFORMATION	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	
OBJECTIVE	
RELATED SUBMITTAL(S)/GRANT(S) TEST METHODOLOGY	
TEST FACILITY	
SYSTEM TEST CONFIGURATION	
DESCRIPTION OF TEST CONFIGURATION	
EQUIPMENT MODIFICATIONS	
CONFIGURATION OF TEST SETUP	
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULTS	7
FCC §15.247 (i) & §2.1093 – RF EXPOSURE	8
APPLICABLE STANDARD	
RESULT:	
FCC §15.203 – ANTENNA REQUIREMENT	
APPLICABLE STANDARD	
ANTENNA CONNECTOR CONSTRUCTION	10
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	11
APPLICABLE STANDARD	
MEASUREMENT UNCERTAINTY	
EUT SETUP	
EMI TEST RECEIVER SETUP	
TEST EQUIPMENT LIST AND DETAILS	
TEST PROCEDURE TEST RESULTS SUMMARY	
TEST DATA	
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS	
APPLICABLE STANDARD	
MEASUREMENT UNCERTAINTY	
EUT SETUP	15
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	
TEST PROCEDURE	
CORRECTED AMPLITUDE & MARGIN CALCULATION	
TEST RESULTS SUMMARY	
TEST DATA	17
FCC §15.247(a) (1)-CHANNEL SEPARATION TEST	19
APPLICABLE STANDARD	
TEST PROCEDURE	19
TEST EQUIPMENT LIST AND DETAILS.	19
TEST DATA	
FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH TESTING	
APPLICABLE STANDARD	26

TEST PROCEDURE	26
TEST EQUIPMENT LIST AND DETAILS	26
Test Data	
FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST	32
APPLICABLE STANDARD	32
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS	
Test Data	32
FCC §15.247(a) (1) (iii) -TIME OF OCCUPANCY (DWELL TIME)	35
APPLICABLE STANDARD	35
Test Procedure	
TEST EQUIPMENT LIST AND DETAILS.	
TEST DATA	
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT	51
APPLICABLE STANDARD	
Test Procedure	
TEST EQUIPMENT LIST AND DETAILS.	
TEST DATA	
FCC §15.247(d) - BAND EDGES TESTING	57
APPLICABLE STANDARD	
TEST PROCEDURE	57
TEST EQUIPMENT LIST AND DETAILS	57
Test Data	50

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Imobiile Technology, L.L.C*'s product, model number: *KOOL (FCC ID: ZOTKOOL)* or the "EUT" in this report was a *Mobile Phone*, which was measured approximately: 10.38 cm (L) x 5.5 cm (W) x 1.345 cm (H), rated input voltage: DC 3.7 V battery.

Report No.: RSZ120109001-00B

* All measurement and test data in this report was gathered from production sample serial number: 1201015 (Assigned by BACL, Shenzhen). The EUT was received on 2012-01-09.

Objective

This test report is prepared on behalf of *Imobiile Technology, L.L.C* in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine the compliance of the EUT with FCC Part 15-Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

FCC Part 22H/24E PCE and Part 15B JBP submission with FCC ID: ZOTKOOL

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

FCC Part15.247 Page 4 of 61

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).

Report No.: RSZ120109001-00B



The current scope of accreditations can be found at http://ts.nist.gov/Standards/scopes/2007070.htm

FCC Part15.247 Page 5 of 61

SYSTEM TEST CONFIGURATION

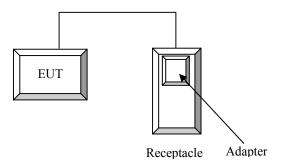
Description of Test Configuration

The system was configured for testing in engineering mode.

Equipment Modifications

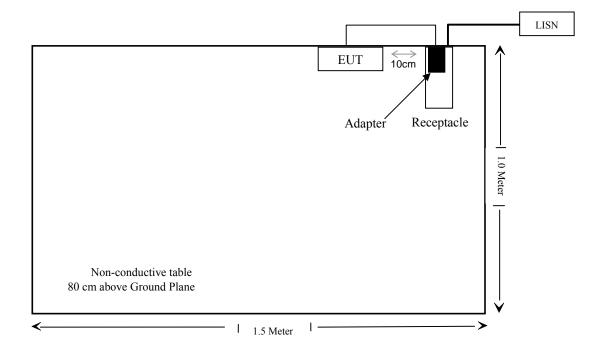
No modification was made to the unit tested.

Configuration of Test Setup



Report No.: RSZ120109001-00B

Block Diagram of Test Setup



FCC Part15.247 Page 6 of 61

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
\$15.205, \$15.209 & \$15.247(d)	Radiated Emissions	Compliance
§15.247(a)(1)	20 dB Emission Bandwidth	Compliance
§15.247(a)(1)	Channel Separation Test	Compliance
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliance
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliance
§15.247(b)(1)	Peak Output Power Measurement	Compliance
§15.247(d)	Band edges	Compliance

Report No.: RSZ120109001-00B

FCC Part15.247 Page 7 of 61

FCC §15.247 (i) & §2.1093 – RF EXPOSURE

Applicable Standard

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Report No.: RSZ120109001-00B

Table 2 - Summary of SAR Evaluation Requirements for a Cell Phone with Multiple Transmitters

	· · ·	<u>-</u>
	Individual Transmitter	Simultaneous Transmission
Licensed Transmitters	Routine evaluation required	SAR not required: Unlicensed only
Unlicensed Transmitters	When there is no simultaneous transmission — o output ≤ 60/f: SAR not required o output > 60/f: stand-alone SAR required When there is simultaneous transmission — Stand-alone SAR not required when o output ≤ 2·P _{Ref} and antenna is ≥ 5.0 cm from other antennas o output ≤ P _{Ref} and antenna is ≥ 2.5 cm from other antennas o output ≤ P _{Ref} and antenna is < 2.5 cm from other antennas o output ≤ P _{Ref} and antenna is < 2.5 cm from other antennas, each with either output power ≤ P _{Ref} or 1-g SAR < 1.2 W/kg Otherwise stand-alone SAR is required When stand-alone SAR is required o test SAR on highest output channel for each wireless mode and exposure condition o if SAR for highest output channel is > 50% of SAR limit, evaluate all channels according to normal procedures	o when stand-alone 1-g SAR is not required and antenna is ≥ 5 cm from other antennas Licensed & Unlicensed o when the sum of the 1-g SAR is < 1.6 W/kg for all simultaneous transmitting antennas o when SAR to peak location separation ratio of simultaneous transmitting antenna pair is < 0.3 SAR required: Licensed & Unlicensed antenna pairs with SAR to peak location separation ratio ≥ 0.3; test is only required for the configuration that results in the highest SAR in stand-alone configuration for each wireless mode and exposure condition Note: simultaneous transmission exposure conditions for head and body can be different for different style phones; therefore, different test requirements may apply
Jaw, Mouth and Nose	Flat phantom SAR required o when measurement is required in tight regions of SAM and it is not feasible or the results can be questionable due to probe tilt, calibration, positioning and orientation issues o position rectangular and clam-shell phones according to flat phantom procedures and conduct SAR measurements for these specific locations	When simultaneous transmission SAR testing is required, contact the FCC Laboratory for interim guidance.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

FCC Part15.247 Page 8 of 61

- 1) GSM can transmit simultaneously with Bluetooth.
- 2) The distance between BT and GSM antenna is 3.0cm>2.5cm. The max output power of Bluetooth antenna is 6.52(dBm) 0(dBi) (4.487 mW) < PRef (12mW). According to KDB648474, stand-alone SAR is not required for BT antenna and simultaneous SAR evaluation is not required for Bluetooth and GSM antennas.

Report No.: RSZ120109001-00B

Result:

The SAR measurement is exempt.

FCC Part15.247 Page 9 of 61

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Report No.: RSZ120109001-00B

Antenna Connector Construction

The EUT has a integral antenna, which in accordance to section 15.203; please refer to the internal photos.

Result: Compliance.

FCC Part15.247 Page 10 of 61

FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207

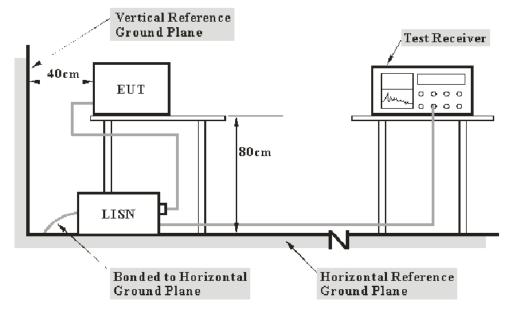
Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratory Corp. (Shenzhen) is 2.4 dB (k=2, 95% level of confidence).

Report No.: RSZ120109001-00B

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The adapter was connected to a 120 VAC/60 Hz power source.

FCC Part15.247 Page 11 of 61

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Report No.: RSZ120109001-00B

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	830245/006	2011-03-03	2012-03-02
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2011-03-09	2012-03-08
Rohde & Schwarz	Pulse limiter	ESH3Z2	DE25985	2011-07-08	2012-07-07

^{*} **Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

5.75 dB at 29.225 MHz in the Neutral conducted mode

Test Data

Environmental Conditions

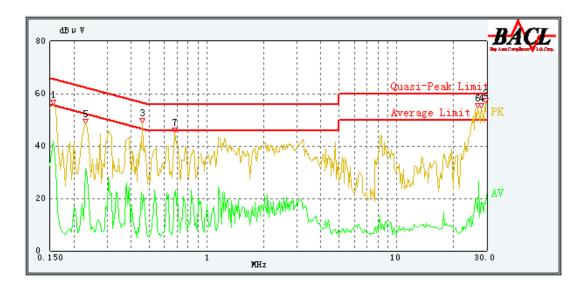
Temperature:	25 °C
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

The testing was performed by Eric Lee on 2012-02-06

FCC Part15.247 Page 12 of 61

Test Mode: Charging & Transmitting

AC 120 V, 60 Hz, Line:

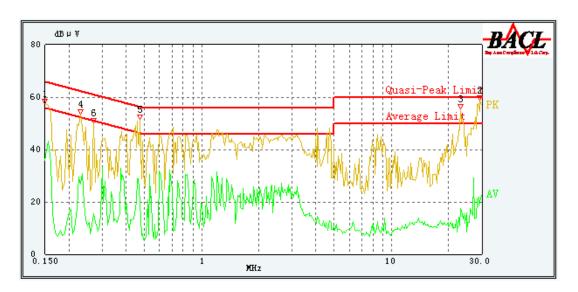


Report No.: RSZ120109001-00B

Co	onducted Emissi	ons	FCC Part 15.207				
Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)		
0.155	52.88	10.10	65.86	12.98	QP		
0.155	41.86	10.10	55.86	14.00	Ave.		
0.230	45.90	10.10	63.71	17.81	QP		
0.460	35.91	10.10	57.14	21.23	QP		
0.230	31.39	10.10	0.10 53.71 22.32		Ave.		
29.505	31.87	10.10	60.00	28.13	QP		
0.460	15.76	10.10	47.14	31.38	Ave.		
28.225	18.59	10.10	50.00	31.41	Ave.		
29.460	17.97	10.10	50.00	32.03	Ave.		
26.895	14.96	10.10	50.00	35.04	Ave.		
28.085	15.87	10.10	60.00	44.13	QP		
26.775	14.97	10.10	60.00	45.03	QP		

FCC Part15.247 Page 13 of 61

AC 120V, 60 Hz, Neutral:



Report No.: RSZ120109001-00B

Co	onducted Emissi	ons	FCC Part 15.207				
Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)				
29.225	54.25	10.10	60.00	5.75	QP		
23.050	50.79	10.10	60.00	9.21	QP		
0.475	45.25	10.10	56.71	11.46	QP		
0.150	52.30	10.10	66.00	13.70	QP		
0.230	47.26	10.10	63.71 16.45		QP		
0.270	43.56	10.10	62.57	19.01	QP		
0.150	35.75	10.10	56.00	20.25	Ave.		
0.230	26.99	10.10	53.71	26.72	Ave.		
0.475	19.36	10.10	46.71	27.35	Ave.		
29.430	21.02	10.10	50.00	28.98	Ave.		
23.110	17.59	10.10	50.00	32.41	Ave.		
0.270	15.66	10.10	52.57	36.91	Ave.		

FCC Part15.247 Page 14 of 61

FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

FCC §15.205; §15.209; §15.247(d)

Measurement Uncertainty

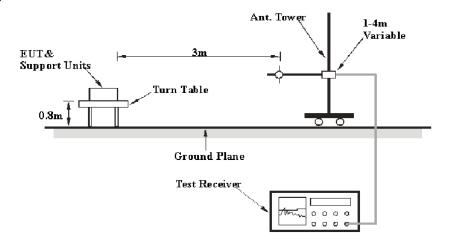
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Report No.: RSZ120109001-00B

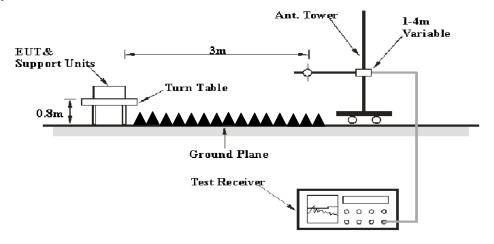
Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 4.0 dB. (k=2, 95% level of confidence).

EUT Setup

Below 1 GHz:



Above 1 GHz:



FCC Part15.247 Page 15 of 61

Report No.: RSZ120109001-00B

The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC 15.209 and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	QP
1000 MHz – 25 GHz	1 MHz	3 MHz	PK
1000 MHz – 25 GHz	1 MHz	10 Hz	Ave

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz -1 GHz and peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss- Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Limit - Corrected Amplitude

FCC Part15.247 Page 16 of 61

Test Equipment List and Details

Manufacturer	Description Model		Serial Number	Calibration Date	Calibration Due Date
НР	Amplifier	HP8447D	2944A09795	2011-08-02	2012-08-02
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
Sunol Sciences	Broadband Antenna	Antenna JB1 A040904-		2011-07-05	2012-07-04
Mini-Circuits	Amplifier	ZVA-213+	T-E27H	2011-03-08	2012-03-08
Sunol Sciences	Sciences Horn Antenna DRH-118 A052604		A052604	2011-05-05	2012-05-04
Rohde & Schwarz	Rohde & Schwarz Signal Analyzer		609358	2011-07-08	2012-07-07
Agilent	Agilent Spectrum Analyzer		3943A01781	2011-04-12	2012-04-11
the electro- Mechanics Co.	Horn Antenna	3116	9510-2270	2011-05-05	2012-05-04

Report No.: RSZ120109001-00B

Test Results Summary

According to the recorded data in following table, the EUT complied with the <u>FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247</u>, with the worst margin reading of:

9.84 dB at 4960 MHz in the Horizontal polarization in high channel

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100 kPa

The testing was performed by Eric Lee on 2012-02-06

Test mode: Transmitting (BDR mode is warst case)

FCC Part15.247 Page 17 of 61

^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

30MHz ~25 GHz:

Frequency	Receiver	Detector	Direction	Tes	t Anten	na	Cable	Pre-Amp.	Cord.	FCC P	art 15.2	47/205/209
(MHz)	Reading	(PK/QP/Ave)		Height		Factor	Loss	Gain	Amp.	Limit	Margin	Comment
	(dBµV)			(m)		(dB/m)	(dB) 402 MH:	(dB)	(abµv/m)	(dBµV/m)	(dB)	
2402	99.24	PK	156	1.3	Н	30.5	3.03	26.54	106.23	/	/	fundamental
2402	87.15	Ave.	182	1.2	Н	30.5	3.03	26.54	94.14	/	/	fundamental
2402	98.36	PK	236	1.4	V	30.2	3.03	26.54	105.05	/	/	fundamental
2042	85.28	Ave.	254	1.6	V	30.2	3.03	26.54	91.97	/	/	fundamental
4804	30.23	Ave.	244	2.1	Н	36	4.3	26.87	43.66	54	10.34	harmonic
4804	29.62	Ave.	311	1.6	V	34.5	4.3	26.87	41.55	54	12.45	harmonic
2320	28.51	Ave.	190	1.5	V	30.3	2.98	26.84	34.95	54	19.05	spurious
2320	27.52	Ave.	120	1.2	Н	30.3	2.98	26.84	33.96	54	20.04	spurious
4804	39.56	PK	244	1.4	Н	36	4.3	26.87	52.99	74	21.01	harmonic
4804	38.65	PK	311	1.6	V	34.5	4.3	26.87	50.58	74	23.42	harmonic
7206	21.86	Ave.	323	1.4	Н	39.2	5.22	26.64	39.64	66.23	26.36	harmonic
2320	39.32	PK	120	1.2	Н	30.3	2.98	26.84	45.76	74	28.24	spurious
2320	38.52	PK	190	1.9	V	30.3	2.98	26.84	44.96	74	29.04	spurious
7206	20.48	Ave.	255	1.6	V	37.8	5.22	26.64	36.86	66.23	29.14	harmonic
7206	32.25	PK	268	1.5	Н	39.2	5.22	26.64	50.03	86.23	35.97	harmonic
7206	32.79	PK	49	1.8	V	37.8	5.22	26.64	49.17	86.23	36.83	harmonic
				Mid	dle Ch	annel (2	2441 MI	Hz)				
2441	97.48	PK	201	1.5	Н	30.8	3.05	26.61	104.72	/	/	fundamental
2441	84.69	Ave.	142	1.2	Н	30.8	3.05	26.61	91.93	/	/	fundamental
2441	98.02	PK	196	1.1	V	30.5	3.05	26.61	104.96	/	/	fundamental
2441	85.35	Ave.	255	1.4	V	30.5	3.05	26.61	92.29	/	/	fundamental
7323	24.59	Ave.	296	1.8	Н	39.3	5.32	26.73	42.48	54	11.52	harmonic
4882	30.14	Ave.	152	1.8	V	34.7	4.36	26.87	42.33	54	11.67	harmonic
4882	28.52	Ave.	163	1.2	Н	36.2	4.36	26.87	42.21	54	11.79	harmonic
7323	24.08	Ave.	253	1.2	V	37.9	5.32	26.73	40.57	54	13.43	harmonic
7323	34.26	PK	329	1.5	Н	39.3	5.32	26.73	52.15	74	21.85	harmonic
4882	38.36	PK	190	1.2	Н	36.2	4.36	26.87	52.05	74	21.95	harmonic
7323	33.72	PK	147	1.6	V	37.9	5.32	26.73	50.21	74	23.79	harmonic
4882	37.52	PK	180	1.4	V	34.7	4.36	26.87	49.71	74	24.29	harmonic
	T	T	T		í———		480 MH	./	1	1	1 .	T
2480	98.19	PK	254	1.2	Н	30.6	3.06	26.82	105.03	/	/	fundamental
2480	86.43	Ave.	342	1.6	Н	30.6	3.06	26.82	93.27	/	/	fundamental
2480	96.77	PK	130	1.4	V	30.7	3.06	26.82	103.71	/	/	fundamental
2480	85.71	Ave.	155	1.4	V	30.7	3.06	26.82	92.65	/	/	fundamental
4960	30.23	Ave.	175	1.2	Н	36.4	4.4	26.87	44.16	54	9.84	harmonic
4960	29.24	Ave.	148	1.5	V	35	4.4	26.87	41.77	54	12.23	harmonic
7440	23.57	Ave.	236	1.8	H	39.3	5.22	26.71	41.38	54	12.62	harmonic
7440	22.47	Ave.	346	1.6	V	37.9	5.22	26.71	38.88	54	15.12	harmonic
2492	29.34	Ave.	120	1.2	H V	30.6	3.06	26.82	36.18	54	17.82	spurious
2492 7440	29.04 37.42	Ave. PK	190 254	1.5 1.4	H	30.7	3.06 5.22	26.82	35.98 55.23	54 74	18.02	spurious
4960		PK PK		1.4		_		26.71		74	18.77	harmonic
4960	40.12 40.09	PK PK	236 180	1.9	H V	36.4 35	4.4	26.87 26.87	54.05 52.62	74	19.95 21.38	harmonic
7440	35.92	PK PK	121	1.0	V	37.9	5.22	26.87	52.62	74	21.58	harmonic
2492	42.48	PK PK	142	1.2	H	30.6	3.06	26.71	49.32	74		harmonic
2492		PK PK	176	1.2	V	30.6				74	24.68 27.29	spurious
Z4 9 Z	39.77	l LV	1/0	1.9	ı v	3U./	3.06	26.82	46.71	/4	41.29	spurious

Report No.: RSZ120109001-00B

FCC Part15.247 Page 18 of 61

FCC §15.247(a) (1)-CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems shall have hoping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

Report No.: RSZ120109001-00B

Test Procedure

- 1. Set the EUT in transmitting mode, spectrum Bandwidth was set at 30 kHz, maxhold the channel.
- 2. Set the adjacent channel of the EUT maxhold another truce
- 3. Measure the channel separation.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
TESCOM	Bluetooth Tester	TC-3000B	3000B650083	2011-12-07	2012-12-06

^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100 kPa

^{*} The testing was performed by Eric Lee on 2012-02-09

Test Result: Compliance.

Please refer to following tables and plots

FCC Part15.247 Page 19 of 61

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	≥Limit (MHz)	Result
	Low	2402	1.076	0.616	Pass
	Adjacent	2403	1.070	0.010	
BDR	Middle	2441	1.004	0.627	Pass
(GFSK)	Adjacent	2442	1.004	0.027	rass
	High	2480	1.000	0.624	Pass
	Adjacent	2479	1.000	0.024	rass
	Low	2402	1.004	0.022	Pass
	Adjacent	2403	1.004	0.832	1 ass
EDR	Middle	2441	1.004	0.861	Pass
(π/4-DQPSK)	Adjacent	2442	1.004		
	High	2480	1.000	0.070	Pass
	Adjacent	2479	1.008	0.872	
	Low	2402	1.004	0.927	Pass
	Adjacent	2403	1.004	0.837	
EDR	Middle	2441	1.000	0.843	Pass
(8DPSK)	Adjacent	2442	1.008	0.843	rass
	High	2480	1.004	0.945	Dogg
	Adjacent	2479	1.004	0.845	Pass

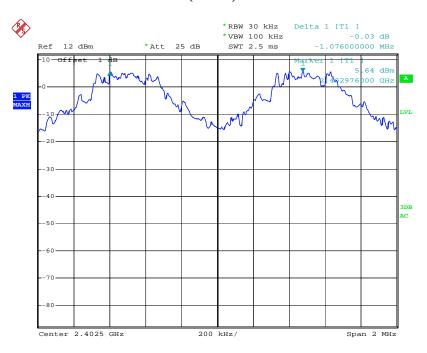
Report No.: RSZ120109001-00B

Note: Limit = 20 dB bandwidth *2/3

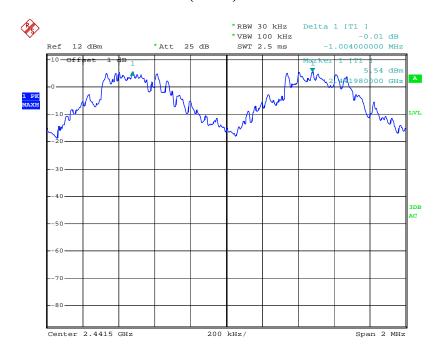
FCC Part15.247 Page 20 of 61

BDR (GFSK): Low Channel

Report No.: RSZ120109001-00B



BDR (GFSK): Middle Channel

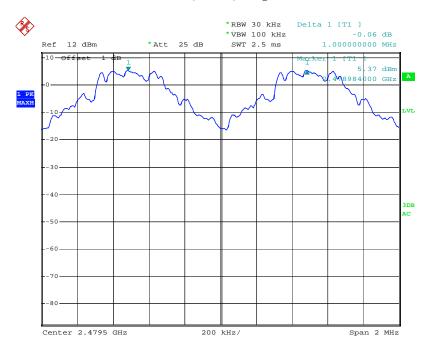


- . 10 --- 0011 00 10 15

FCC Part15.247 Page 21 of 61

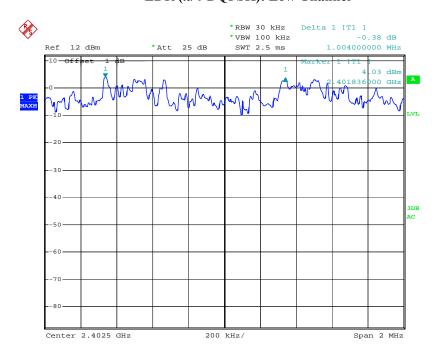
BDR (GFSK): High Channel

Report No.: RSZ120109001-00B



B . 10 BBG 0011 00 4F 00

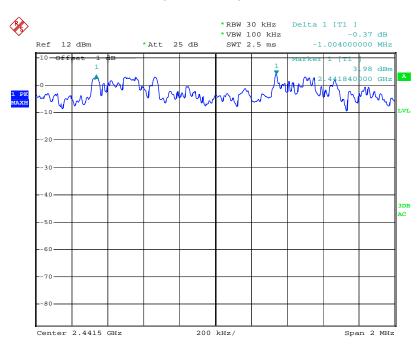
EDR ($\pi/4$ -DQPSK): Low Channel



FCC Part15.247 Page 22 of 61

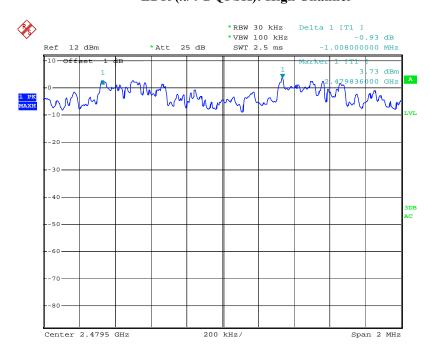
EDR ($\pi/4$ -DQPSK): Middle Channel

Report No.: RSZ120109001-00B



_ _ _ _ _

EDR ($\pi/4$ -DQPSK): High Channel

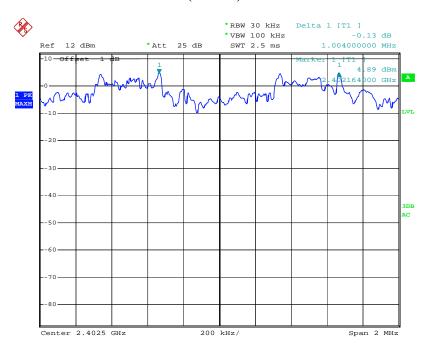


B : 10 BBG 0011 10 4E E0

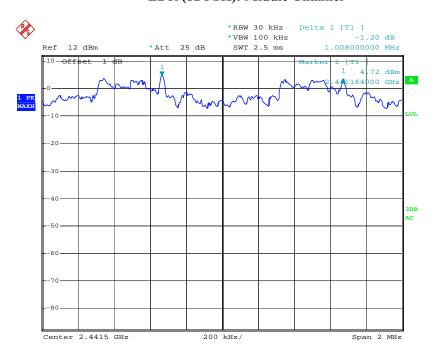
FCC Part15.247 Page 23 of 61

EDR (8DPSK): Low Channel

Report No.: RSZ120109001-00B



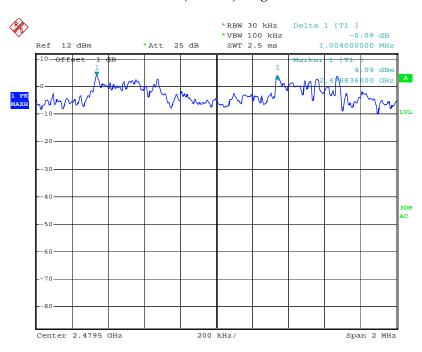
EDR (8DPSK): Middle Channel



FCC Part15.247 Page 24 of 61

EDR (8DPSK): High Channel

Report No.: RSZ120109001-00B



FCC Part15.247 Page 25 of 61

FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH TESTING

Applicable Standard

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Report No.: RSZ120109001-00B

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
TESCOM	Bluetooth Tester	TC-3000B	3000B650083	2011-12-07	2012-12-06

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100 kPa

^{*} The testing was performed by Eric Lee on 2012-02-27

Test Result: Compliance.

Please refer to following tables and plots

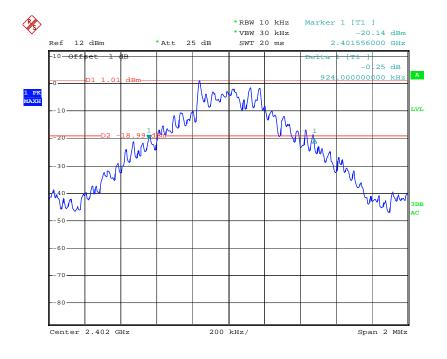
FCC Part15.247 Page 26 of 61

Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
	Low	2402	0.924
BDR (GFSK)	Middle	2441	0.940
(01.015)	High	2480	0.936
	Low	2402	1.248
EDR (π/4-DQPSK)	Middle	2441	1.292
(1 = 2 = 2 = 2)	High	2480	1.308
	Low	2402	1.256
EDR (8DPSK)	Middle	2441	1.264
(3= 2 812)	High	2480	1.268

Report No.: RSZ120109001-00B

BDR (GFSK): Low Channel

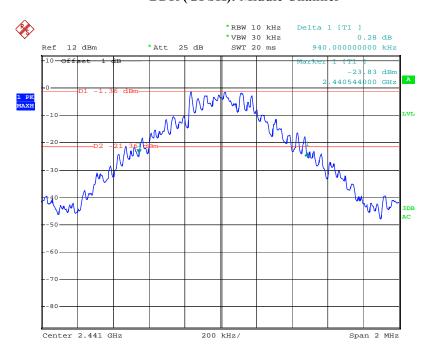


- - - - -

FCC Part15.247 Page 27 of 61

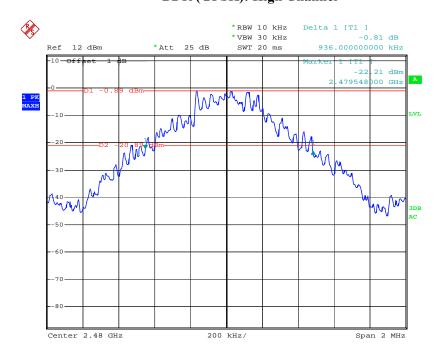
BDR (GFSK): Middle Channel

Report No.: RSZ120109001-00B



B-1- 07 FFF 0010 16 06 25

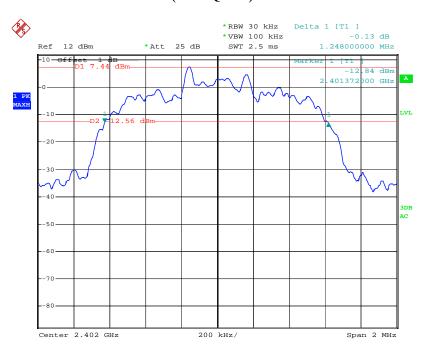
BDR (GFSK): High Channel



FCC Part15.247 Page 28 of 61

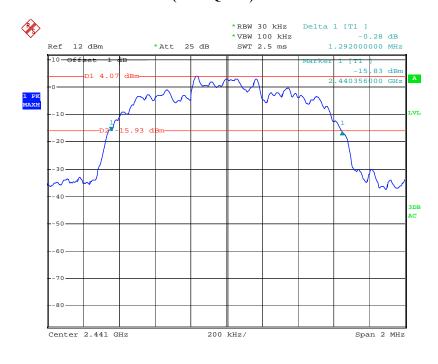
EDR ($\pi/4$ -DQPSK): Low Channel

Report No.: RSZ120109001-00B



-- - - -

EDR (π/4-DQPSK): Middle Channel

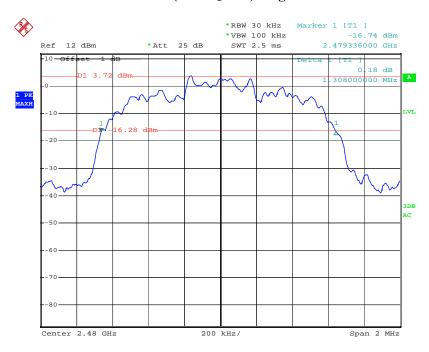


D. L. 10 DDG 0011 10 33 10

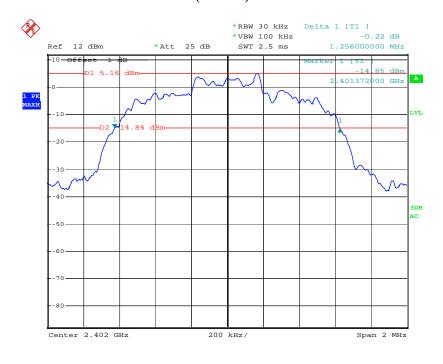
FCC Part15.247 Page 29 of 61

EDR ($\pi/4$ -DQPSK): High Channel

Report No.: RSZ120109001-00B



EDR (8DPSK): Low Channel

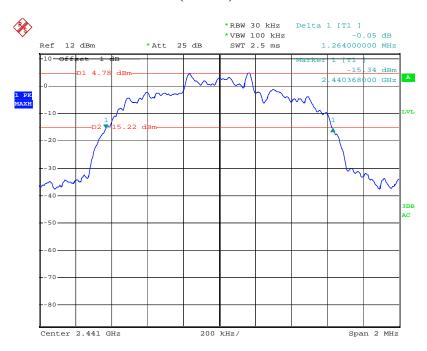


-- - ----

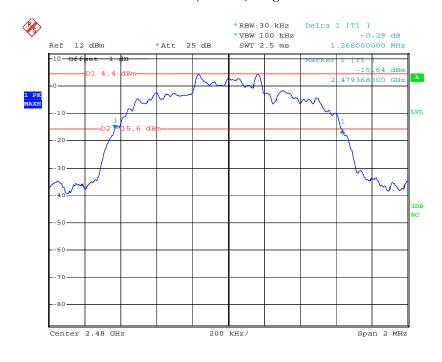
FCC Part15.247 Page 30 of 61

EDR (8DPSK): Middle Channel

Report No.: RSZ120109001-00B



EDR (8DPSK): High Channel



FCC Part15.247 Page 31 of 61

FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Report No.: RSZ120109001-00B

Test Procedure

- 1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- 2. Set the EUT in hopping mode from first channel to last.
- 3. By using the Max-Hold function record the Quantity of the channel.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
TESCOM	Bluetooth Tester	TC-3000B	3000B650083	2011-12-07	2012-12-06

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100 kPa

The testing was performed by Eric Lee on 2012-02-09

Test Result: Compliance.

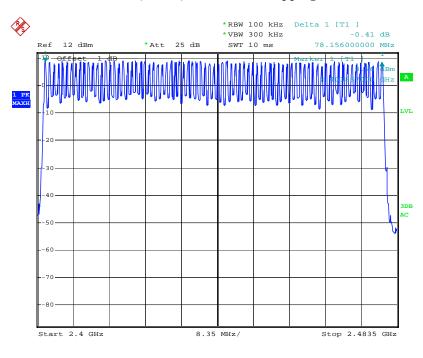
Please refer to following table and plots

FCC Part15.247 Page 32 of 61

Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
BDR (GFSK)	2402-2480	79	≥15
EDR (π/4-DQPSK)	2402-2480	79	≥15
EDR (8DPSK)	2402-2480	79	≥15

Report No.: RSZ120109001-00B

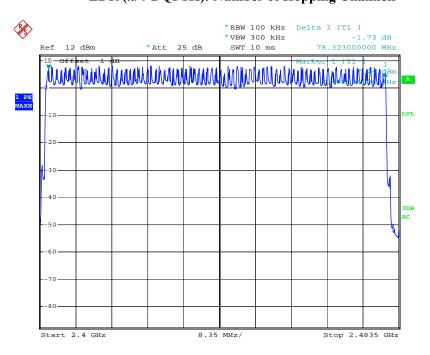
BDR (GFSK): Number of Hopping Channels



FCC Part15.247 Page 33 of 61

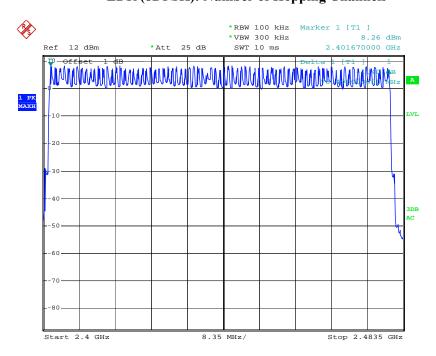
EDR ($\pi/4$ -DQPSK): Number of Hopping Channels

Report No.: RSZ120109001-00B



- . 10 --- 0011 10 07 00

EDR (8DPSK): Number of Hopping Channels



FCC Part15.247 Page 34 of 61

FCC §15.247(a) (1) (iii) -TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Report No.: RSZ120109001-00B

Test Procedure

The EUT was worked in channel hopping; Spectrum SPAN was set as 0. Sweep was set as 0.4 X channel no. (s), the quantity of pulse was get from single sweep. In addition, the time of single pulses was tested.

Dwell time = Pulse time*hope rate/number of hopping channels*31.6S Hop rate=1600/S

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
TESCOM	Bluetooth Tester	TC-3000B	3000B650083	2011-12-07	2012-12-06

^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	101 kPa

^{*} The testing was performed by Eric Lee on 2012-02-09.

Test Result: Compliance.

Please refer to following table and plots

FCC Part15.247 Page 35 of 61

Test Mode: Transmitting

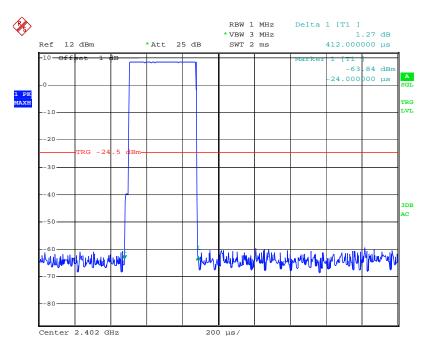
Mode)	Channel	Pulse Width (ms)	Dwell Time (S)	Limit (S)	Result		
		Low	0.412	0.132	0.4	Pass		
	DH 1	Middle	0.412	0.132	0.4	Pass		
	חם ו	High	0.412	0.132	0.4	Pass		
	-	Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S						
		Low	1.692	0.271	0.4	Pass		
BDR	DH 3	Middle	1.692	0.271	0.4	Pass		
(GFSK)	DH 3	High	1.682	0.270	0.4	Pass		
	-	Note:	DH3:Dwell time = P	Pulse time*(1600/	4/79)*31.6S			
		Low	2.940	0.314	0.4	Pass		
	DH 5	Middle	2.940	0.314	0.4	Pass		
	DH 5	High	2.956	0.316	0.4	Pass		
	-	Note:	DH5:Dwell time = P	ulse time*(1600/	6/79)*31.6S	•		
		Low	0.416	0.133	0.4	Pass		
	DII 1	Middle	0.416	0.133	0.4	Pass		
	DH 1	High	0.416	0.133	0.4	Pass		
	-	Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S						
	DH 3	Low	1.685	0.270	0.4	Pass		
EDR		Middle	1.685	0.270	0.4	Pass		
(π/4-DQPSK)		High	1.685	0.270	0.4	Pass		
	-	Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6S						
		Low	2.949	0.315	0.4	Pass		
	DH 5	Middle	2.949	0.315	0.4	Pass		
	DH 5	High	2.965	0.317	0.4	Pass		
	-	Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6S						
		Low	0.420	0.135	0.4	Pass		
	DII 1	Middle	0.420	0.135	0.4	Pass		
	DH 1	High	0.416	0.133	0.4	Pass		
	-	Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S						
		Low	1.696	0.272	0.4	Pass		
EDR	DII 2	Middle	1.696	0.272	0.4	Pass		
(8DPSK)	DH 3	High	1.696	0.272	0.4	Pass		
		Note:	DH3:Dwell time = P	Pulse time*(1600/	4/79)*31.6S			
		Low	2.960	0.316	0.4	Pass		
	DIL 5	Middle	2.976	0.318	0.4	Pass		
	DH 5	High	2.960	0.316	0.4	Pass		
	-	Note:	DH5:Dwell time = P	Pulse time*(1600/	6/79)*31.6S	•		

FCC Part15.247 Page 36 of 61

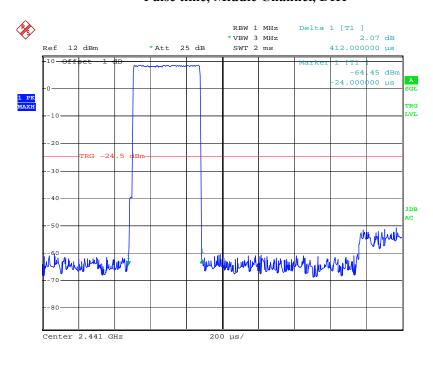
BDR (GFSK):

Pulse time, Low Channel, DH1

Report No.: RSZ120109001-00B



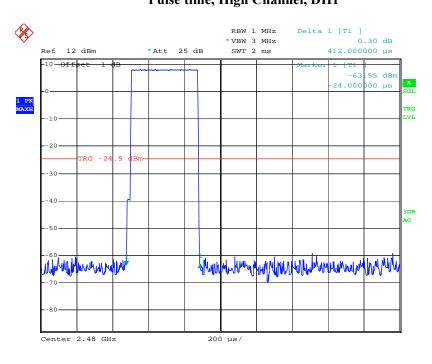
Pulse time, Middle Channel, DH1



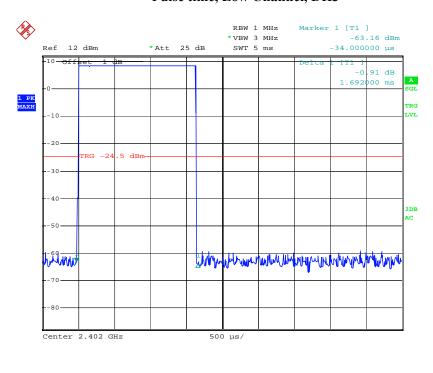
FCC Part15.247 Page 37 of 61

Pulse time, High Channel, DH1

Report No.: RSZ120109001-00B



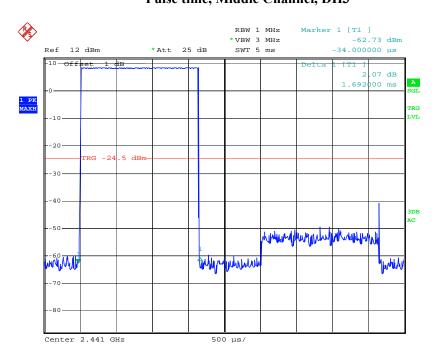
Pulse time, Low Channel, DH3



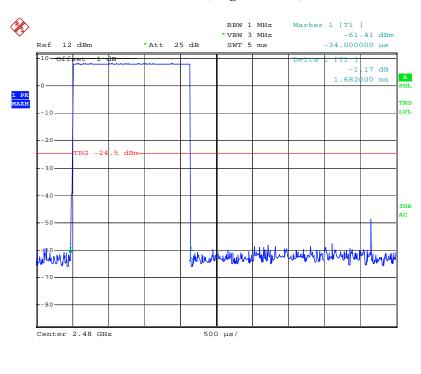
FCC Part15.247 Page 38 of 61

Pulse time, Middle Channel, DH3

Report No.: RSZ120109001-00B



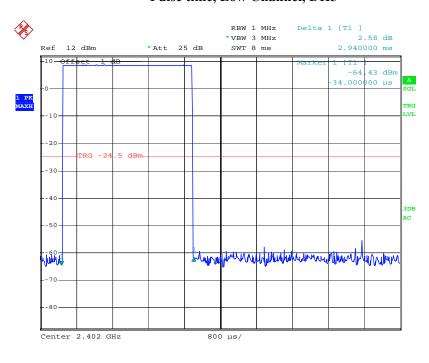
Pulse time, High Channel, DH3



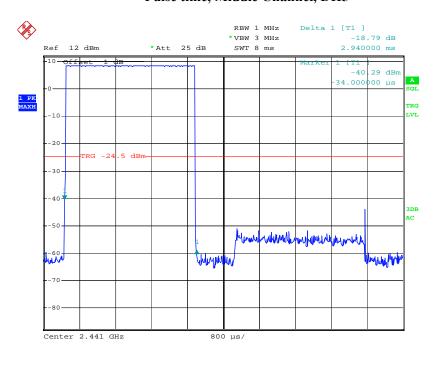
FCC Part15.247 Page 39 of 61

Pulse time, Low Channel, DH5

Report No.: RSZ120109001-00B



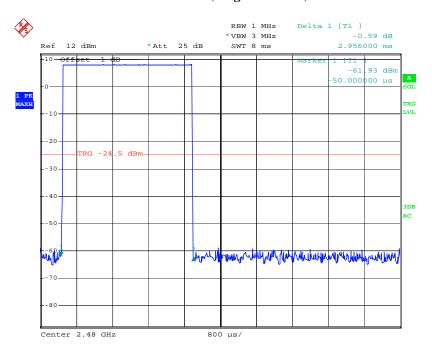
Pulse time, Middle Channel, DH5



FCC Part15.247 Page 40 of 61

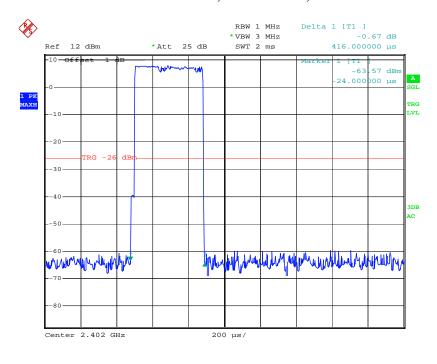
Report No.: RSZ120109001-00B

Pulse time, High Channel, DH5



EDR ($\pi/4$ -DQPSK):

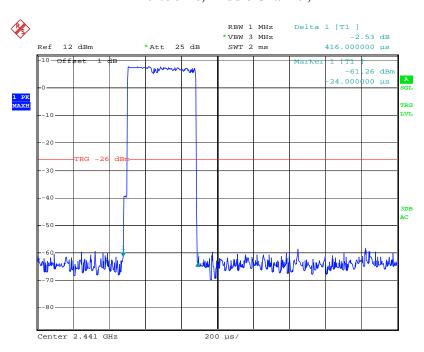
Pulse time, Low Channel, DH1



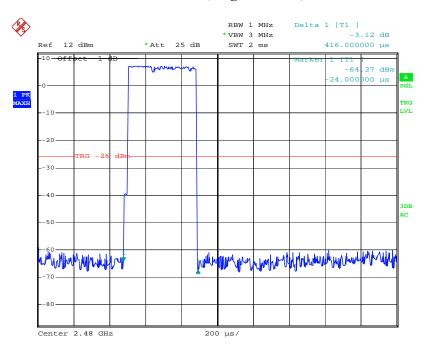
FCC Part15.247 Page 41 of 61

Pulse time, Middle Channel, DH1

Report No.: RSZ120109001-00B



Pulse time, High Channel, DH1

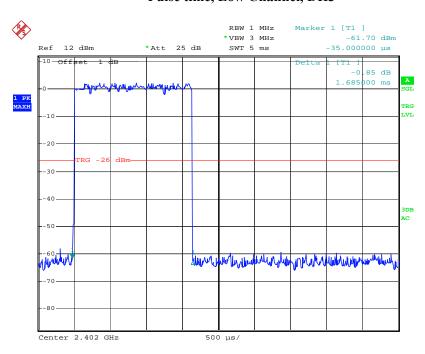


- . 10 --- 0011 10 -- 10

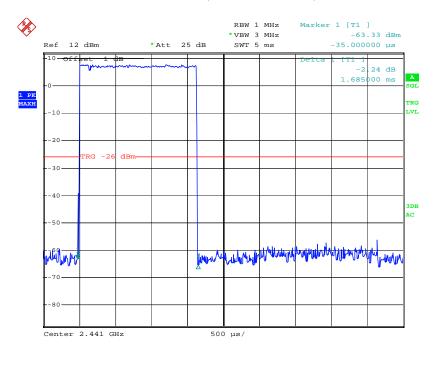
FCC Part15.247 Page 42 of 61

Pulse time, Low Channel, DH3

Report No.: RSZ120109001-00B



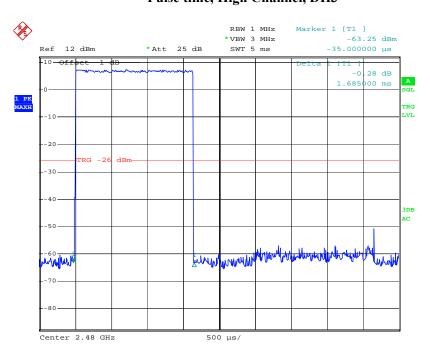
Pulse time, Middle Channel, DH3



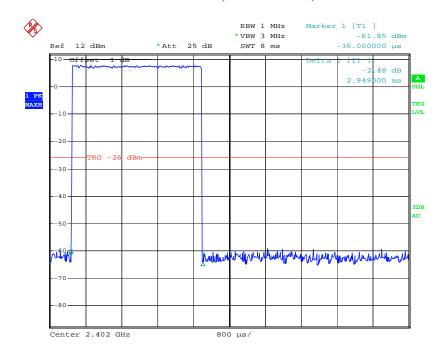
FCC Part15.247 Page 43 of 61

Pulse time, High Channel, DH3

Report No.: RSZ120109001-00B



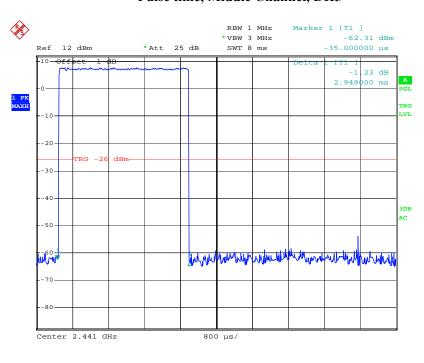
Pulse time, Low Channel, DH5



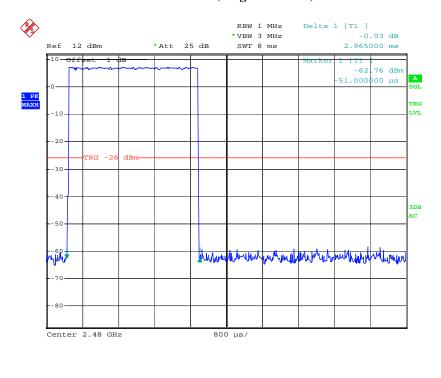
FCC Part15.247 Page 44 of 61

Pulse time, Middle Channel, DH5

Report No.: RSZ120109001-00B



Pulse time, High Channel, DH5

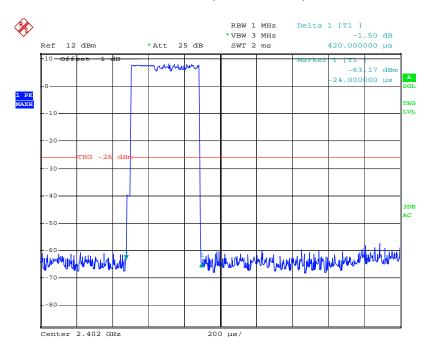


FCC Part15.247 Page 45 of 61

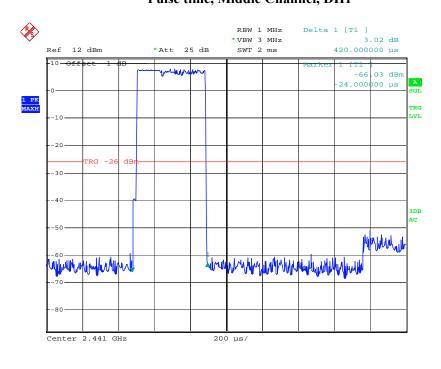
EDR (8DPSK):

Pulse time, Low Channel, DH1

Report No.: RSZ120109001-00B

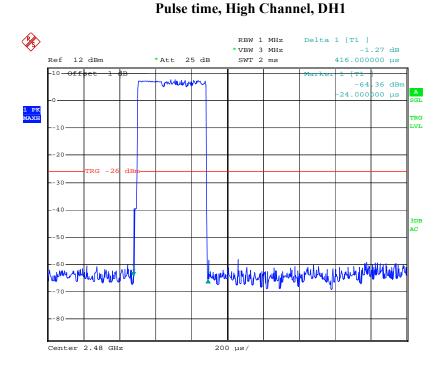


Pulse time, Middle Channel, DH1

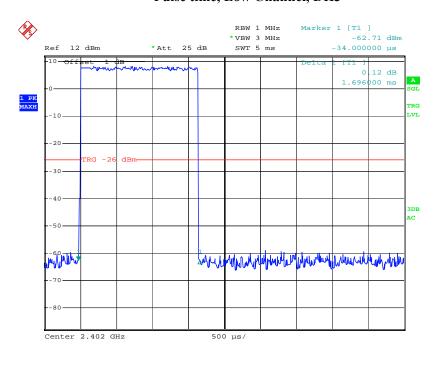


FCC Part15.247 Page 46 of 61

Report No.: RSZ120109001-00B



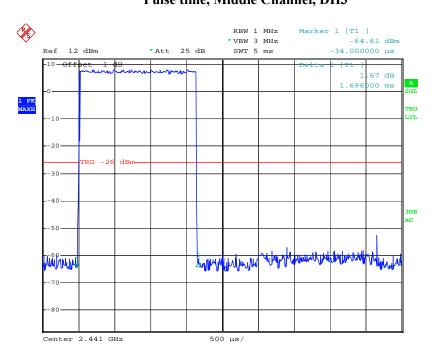
Pulse time, Low Channel, DH3



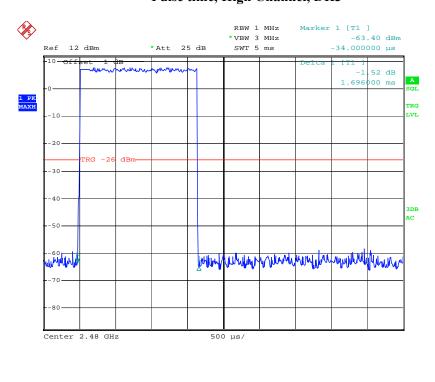
FCC Part15.247 Page 47 of 61

Pulse time, Middle Channel, DH3

Report No.: RSZ120109001-00B



Pulse time, High Channel, DH3

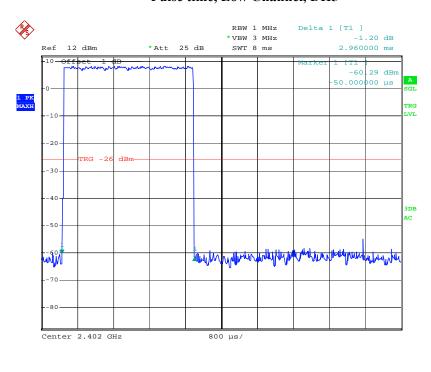


--- ---

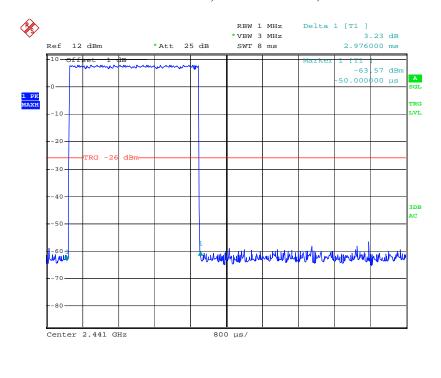
FCC Part15.247 Page 48 of 61

Pulse time, Low Channel, DH5

Report No.: RSZ120109001-00B



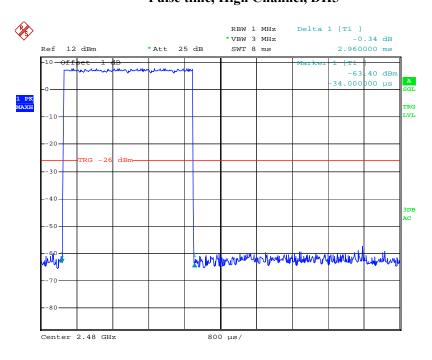
Pulse time, Middle Channel, DH5



FCC Part15.247 Page 49 of 61

Pulse time, High Channel, DH5

Report No.: RSZ120109001-00B



- . . . --- --- ---

FCC Part15.247 Page 50 of 61

FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

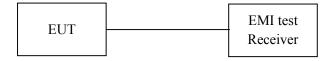
Applicable Standard

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

Report No.: RSZ120109001-00B

Test Procedure

- 1. Place the EUT on a bench and set in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI test receiver.
- 3. Add a correction factor to the display.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
TESCOM	Bluetooth Tester	TC-3000B	3000B650083	2011-12-07	2012-12-06

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	25 °C	
Relative Humidity:	56 %	
ATM Pressure:	101 kPa	

^{*} The testing was performed by Eric Lee on 2012-02-27

Test Result: Compliance.

Please refer to following table and plots

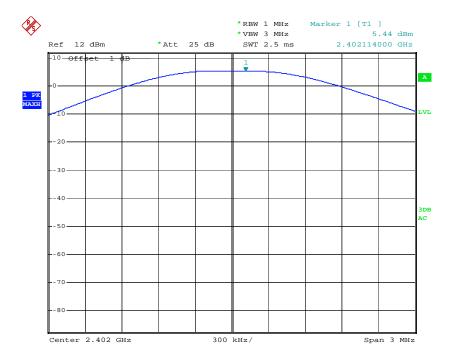
FCC Part15.247 Page 51 of 61

Test Mode: Transmitting

Mode		Frequency	Conducted C	Limit	
		(MHz)	(dBm)	(mW)	(mW)
BDR (GFSK)	Low	2402	5.44	3.50	1000
	Middle	2441	6.09	4.06	1000
	High	2480	6.52	4.49	1000
EDR (π/4-DQPSK)	Low	2402	4.98	3.15	1000
	Middle	2441	5.83	3.83	1000
	High	2480	6.29	4.26	1000
EDR (8DPSK)	Low	2402	5.19	3.30	1000
	Middle	2441	6.08	4.06	1000
	High	2480	6.51	4.48	1000

Report No.: RSZ120109001-00B

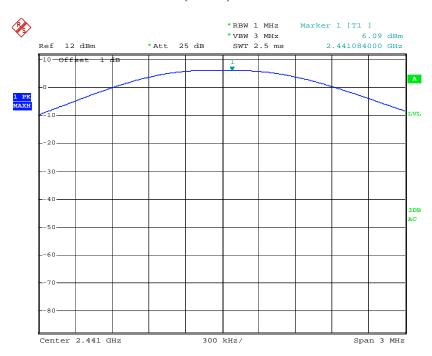
BDR (GFSK): Low Channel



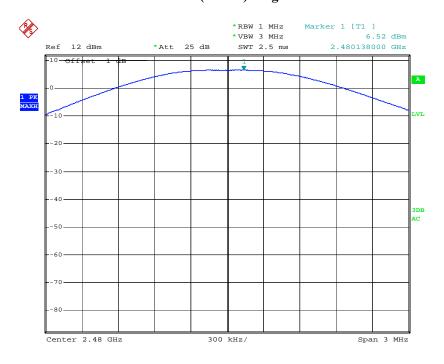
FCC Part15.247 Page 52 of 61

BDR (GFSK): Middle Channel

Report No.: RSZ120109001-00B



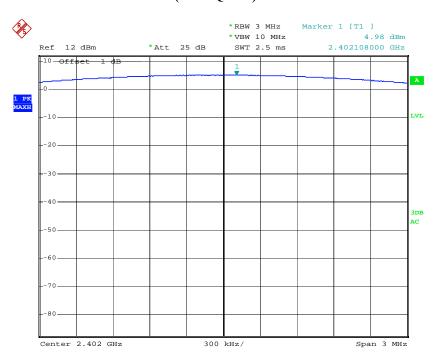
BDR (GFSK): High Chanel



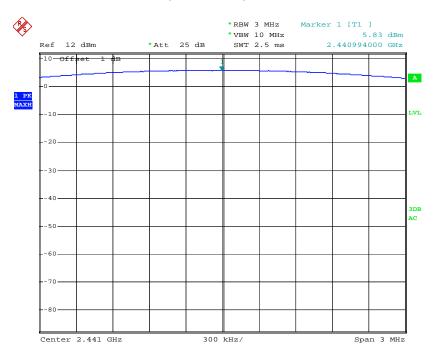
FCC Part15.247 Page 53 of 61

EDR($\pi/4$ -DQPSK): Low Channel

Report No.: RSZ120109001-00B



EDR(π/4-DQPSK): Middle Channel



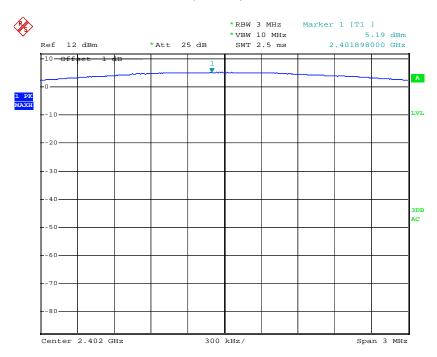
FCC Part15.247 Page 54 of 61

$EDR(\pi/4-DQPSK)$: High Chanel

Report No.: RSZ120109001-00B



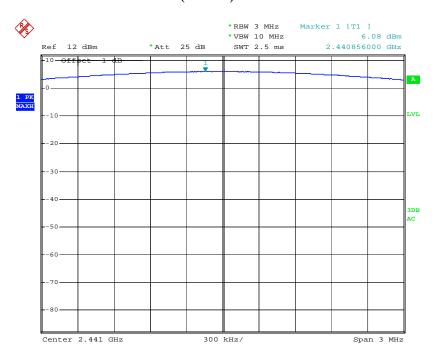
EDR(8DPSK): Low Channel



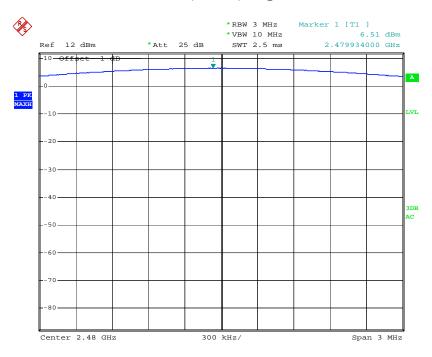
FCC Part15.247 Page 55 of 61

EDR(8DPSK): Middle Channel

Report No.: RSZ120109001-00B



EDR(8DPSK): High Chanel



FCC Part15.247 Page 56 of 61

FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Report No.: RSZ120109001-00B

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1 MHz, VBW=3 MHz
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
TESCOM	Bluetooth Tester	TC-3000B	3000B650083	2011-12-07	2012-12-06

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

FCC Part15.247 Page 57 of 61

Test Data

Environmental Conditions

Temperature:	25 °C	
Relative Humidity:	56 %	
ATM Pressure:	101 kPa	

^{*}The testing was performed by Eric Lee on 2012-02-27.

Test Result: Compliance

Please refer to the following table and plots.

Test Mode: Transmitting

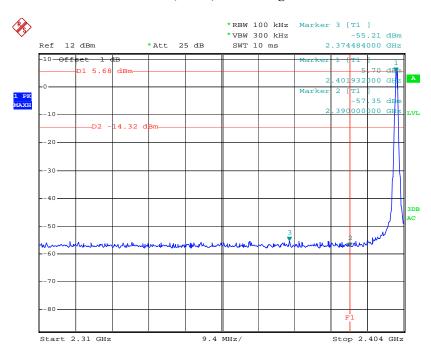
Mode	Frequency (MHz)	Delta Peak to Band Emission (dBc)	≥Limit (dBc)
BDR	2390.0	63.05	20
(GFSK)	2483.5	58.96	20
EDR (π/4-DQPSK)	2390.0	62.61	20
	2483.5	58.18	20
EDR (8DPSK)	2390.0	60.92	20
	2483.5	59.90	20

Report No.: RSZ120109001-00B

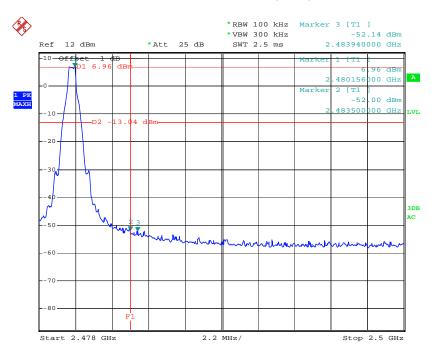
FCC Part15.247 Page 58 of 61

BDR (GFSK): Band Edge-Left Side

Report No.: RSZ120109001-00B



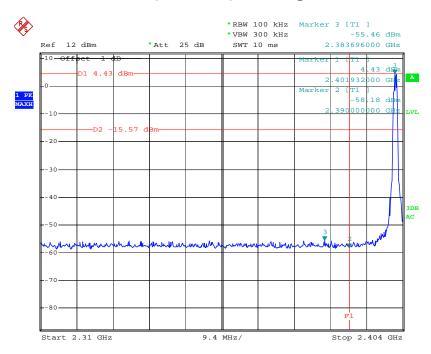
BDR (GFSK): Band Edge-Right Side



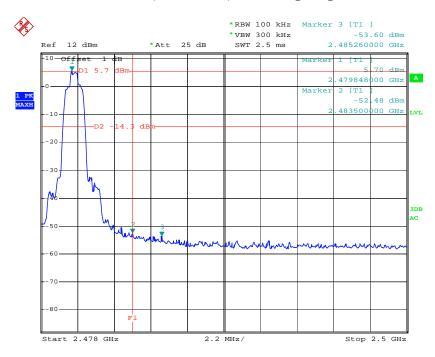
FCC Part15.247 Page 59 of 61

EDR ($\pi/4$ -DQPSK): Band Edge-Left Side

Report No.: RSZ120109001-00B



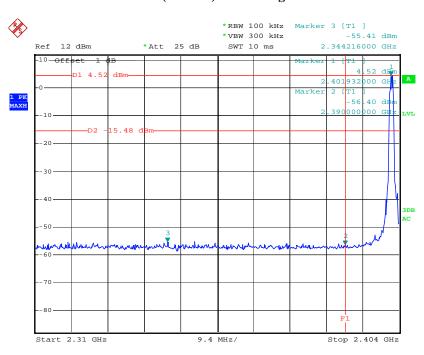
EDR (π/4-DQPSK): Band Edge-Right Side



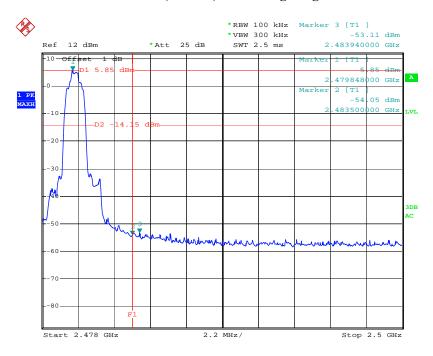
FCC Part15.247 Page 60 of 61

EDR (8DPSK): Band Edge-Left Side

Report No.: RSZ120109001-00B



BDR (8DPSK): Band Edge-Right Side



***** END OF REPORT *****

FCC Part15.247 Page 61 of 61