

**FCC PART 15.247
TEST REPORT**

For

KINGTECH MOBILE LTD

7/F, Kin On Commercial Building 49-51 Jervois Street, Sheung Wan, HongKong

FCC ID: O65ETERNITY

Report Type: Original Report	Product Type: GSM Mobile Phone
Test Engineer: Mick Yin	<i>Mick Yin</i>
Report Number: RSZ120618001-00B	
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Reviewed By: RF Engineer	<i>Sula Huang</i>
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Shenzhen) 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 www.baclcorp.com.cn

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

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *KINGTECH MOBILE LTD*'s product, model number: *INFINITY II* (FCC ID: *O65ETERNITY*) or the "EUT" in this report was a *GSM Mobile Phone*, which was measured approximately: 10.0 cm (L) x 4.5 cm (W) x 0.8 cm (H), rated input voltage: DC 3.7 V Li-ion battery or DC 5 V charging from adapter.

Adapter information

Model: B18

Input: AC 100-240V 50/60 Hz 0.1A

SALIDA: DC 5V 400 mA

Note: The product GSM mobile phone, models ETERNITY and L238 are electrically identical with the model INFINITY II which was selected to test; the difference among them is just model numbers, which was explained in the attached product declaration letter.

** All measurement and test data in this report was gathered from production sample serial number: 1206052 (Assigned by Shenzhen BACL). The EUT was received on 2012-06-18.*

Objective

This test report is prepared on behalf of *KINGTECH MOBILE LTD* 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 compliance 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 submissions with FCC ID: O65ETERNITY

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.

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).



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

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a testing mode.

Equipment Modifications

No modification was made to the EUT tested.

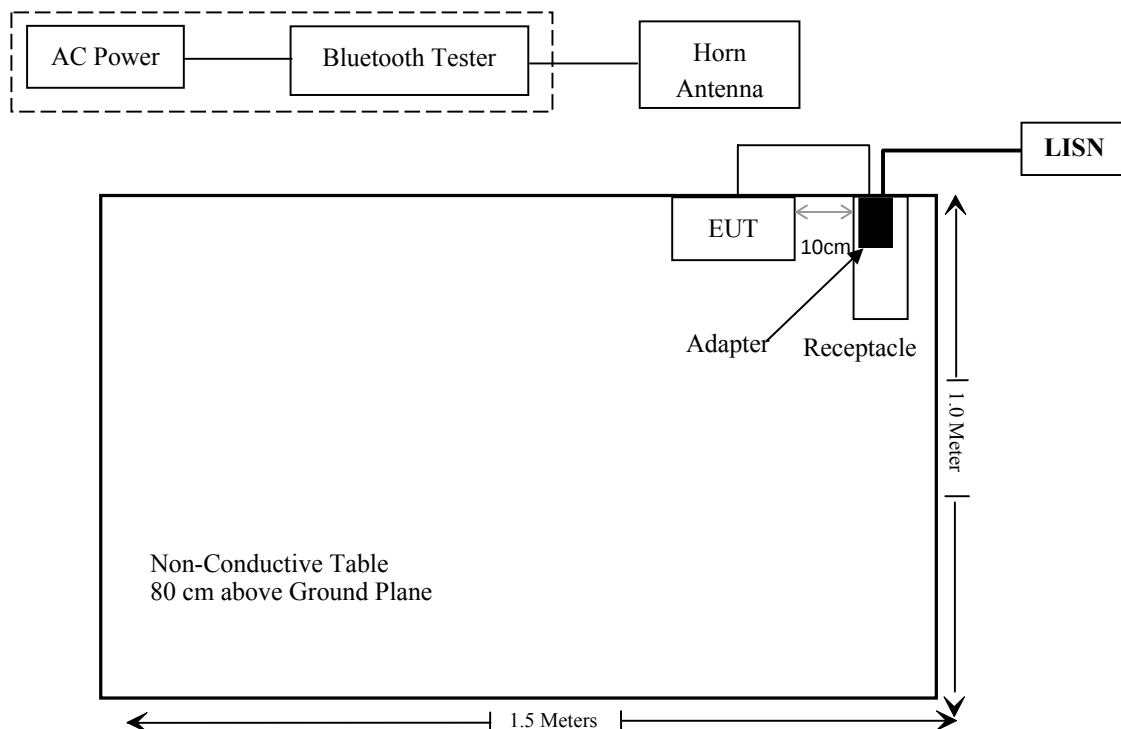
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
TESCOM	Bluetooth Tester	TC-3000B	3000B650083

External I/O Cable

Cable Description	Length (m)	From Port	To
Unshielded Detachable DC Power Cable	1.0	EUT	LISN

Block Diagram of Test Setup



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

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.

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

	Individual Transmitter	Simultaneous Transmission
Licensed Transmitters	<u>Routine evaluation required</u>	SAR not required: <u>Unlicensed only</u> - when stand-alone 1-g SAR is not required and antenna is ≥ 5 cm from other antennas Licensed & Unlicensed - when the sum of the 1-g SAR is < 1.6 W/kg for all simultaneous transmitting antennas - when SAR to peak location separation ratio of simultaneous transmitting antenna pair is < 0.3 SAR required: <u>Licensed & Unlicensed</u> 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
Unlicensed Transmitters	When there is no simultaneous transmission – - output ≤ 60 f: SAR not required - output > 60 f: stand-alone SAR required When there is simultaneous transmission – <u>Stand-alone SAR not required when</u> - output $\leq 2 \cdot P_{Ref}$ and antenna is ≥ 5.0 cm from other antennas - output $\leq P_{Ref}$ and antenna is ≥ 2.5 cm from other antennas - output $\leq P_{Ref}$ and antenna is < 2.5 cm from other antennas, each with either output power $\leq P_{Ref}$ or 1-g SAR < 1.2 W/kg <u>Otherwise stand-alone SAR is required</u> When stand-alone SAR is required - test SAR on highest output channel for each wireless mode and exposure condition - if SAR for highest output channel is $> 50\%$ of SAR limit, evaluate all channels according to normal procedures	
Jaw, Mouth and Nose	<u>Flat phantom SAR required</u> - 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 - 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.

Note:

- 1) GSM can transmit simultaneously with Bluetooth.
- 2) The distance between BT and GSM antenna is $0.2\text{cm} < 2.5\text{ cm}$. The max output power of Bluetooth antenna is (1.82 dBm) $1.52\text{mW} < P_{\text{Ref}}(12\text{mW})$, and the max SAR of GSM is $0.646\text{w/kg} < 1.2\text{ w/kg}$. According to KDB648474, stand-alone SAR is not required for BT antenna and simultaneous SAR evaluation is not required for Bluetooth and GSM antennas.

Result:

The SAR measurement is exempt.

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.

Antenna Connector Construction

The EUT has an integrated antenna arrangement for bluetooth, which was permanently attached and the gain was 0 dBi, fulfill the requirement of this section. Please refer to the internal photos.

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

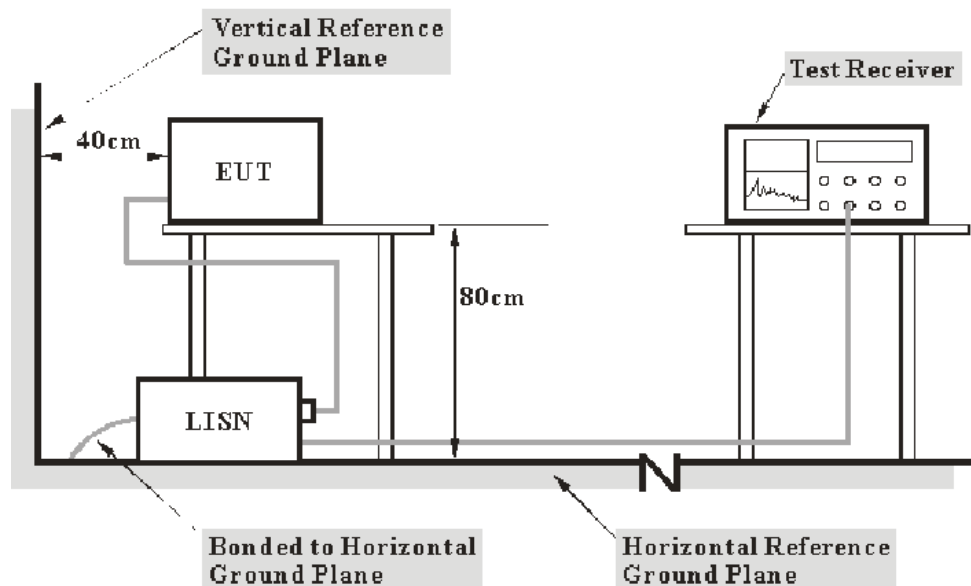
FCC §15.207

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).

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 spacing between the peripherals was 10 cm

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

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:

<u>Frequency Range</u>	<u>IF B/W</u>
150 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2011-11-24	2012-11-23
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2011-11-17	2012-11-16
Rohde & Schwarz	Pulse limiter	ESH3Z2	DE25985	2011-07-08	2012-07-07
BACL	CE Test software	BACL-CE	V1.0	N/A	N/A

* **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:

20.59 dB at 0.495 MHz in the Line conducted mode

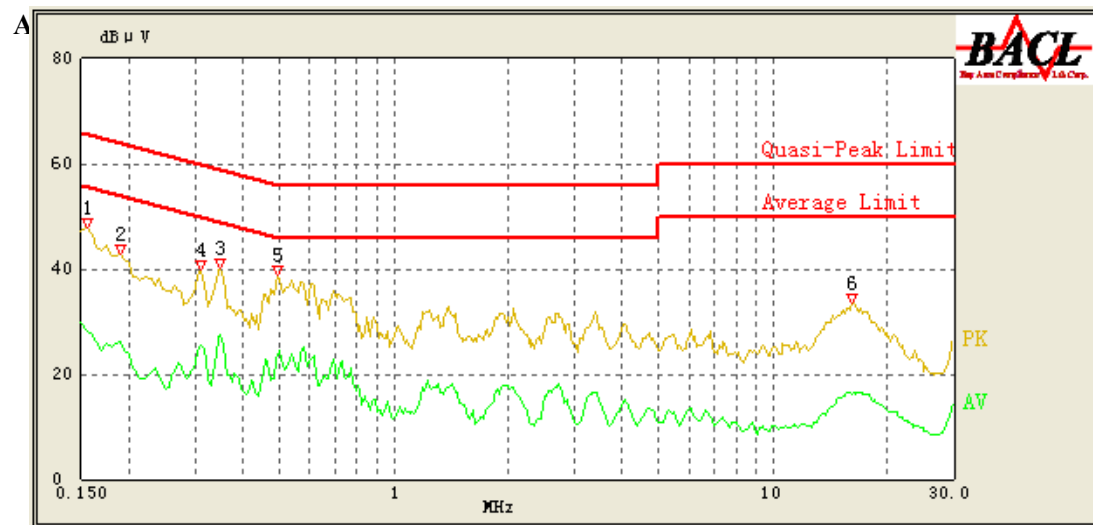
Test Data

Environmental Conditions

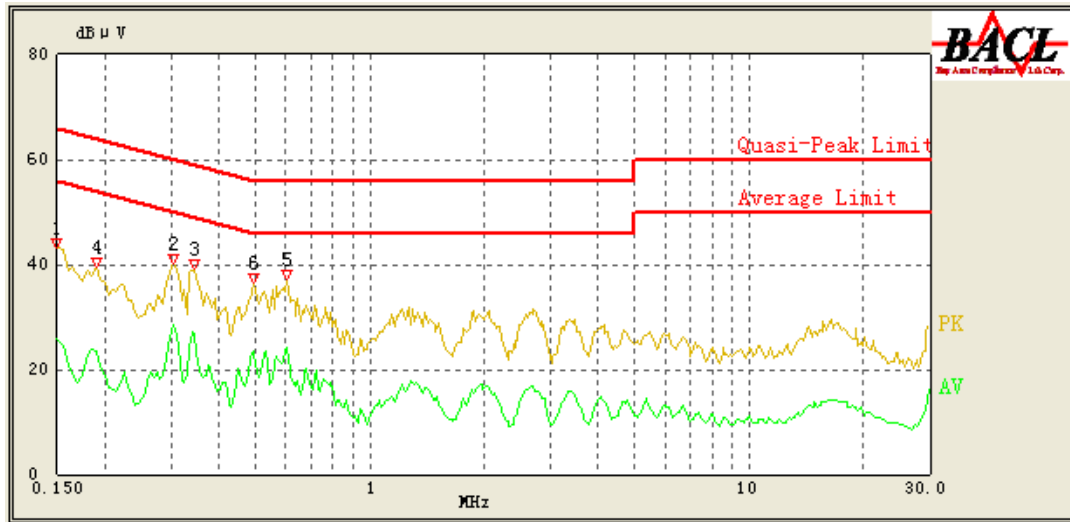
Temperature:	25°C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Mick Yin on 2012-07-20.

Test Mode: Charging & Transmitting



Frequency (MHz)	Corrected Amplitude (dB μ V)	Correction Factor (dB)	Limit (dB μ V)	Margin (dB)	Detector (PK/Ave./QP)
0.495	35.55	10.25	56.14	20.59	QP
0.495	23.46	10.25	46.14	22.68	Ave.
0.350	27.50	10.26	50.29	22.79	Ave.
0.310	25.52	10.26	51.43	25.91	Ave.
0.155	39.86	10.27	65.86	26.00	QP
0.350	34.02	10.26	60.29	26.27	QP
0.310	35.11	10.26	61.43	26.32	QP
0.155	28.26	10.27	55.86	27.60	Ave.
0.190	36.34	10.27	64.86	28.52	QP
0.190	26.29	10.27	54.86	28.57	Ave.
16.130	16.10	11.65	50.00	33.90	Ave.
16.175	24.16	11.67	60.00	35.84	QP

AC 120V, 60 Hz, Neutral:

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.605	24.29	10.23	46.00	21.71	Ave.
0.495	23.37	10.24	46.14	22.77	Ave.
0.305	28.53	10.25	51.57	23.04	Ave.
0.345	26.87	10.25	50.43	23.56	Ave.
0.605	31.28	10.23	56.00	24.72	QP
0.495	30.95	10.24	56.14	25.19	QP
0.345	35.14	10.25	60.43	25.29	QP
0.305	35.11	10.25	61.57	26.46	QP
0.150	38.14	10.24	66.00	27.86	QP
0.150	25.86	10.24	56.00	30.14	Ave.
0.190	34.23	10.24	64.86	30.63	QP
0.190	23.38	10.24	54.86	31.48	Ave.

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

Applicable Standard

FCC §15.205; §15.209; §15.247(d)

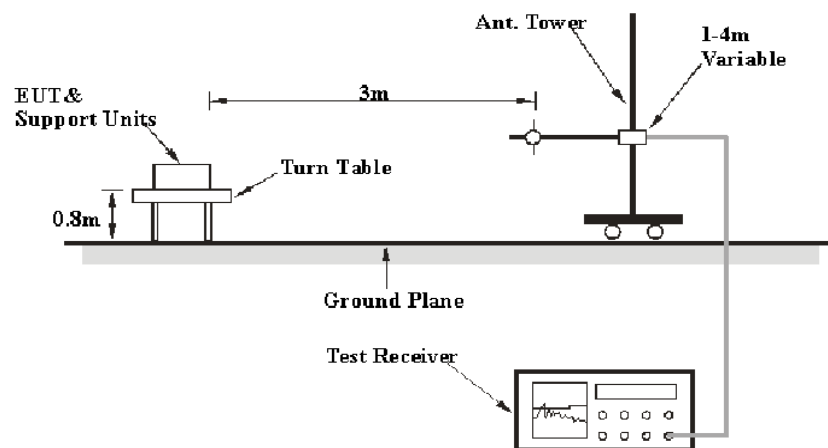
Measurement Uncertainty

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.

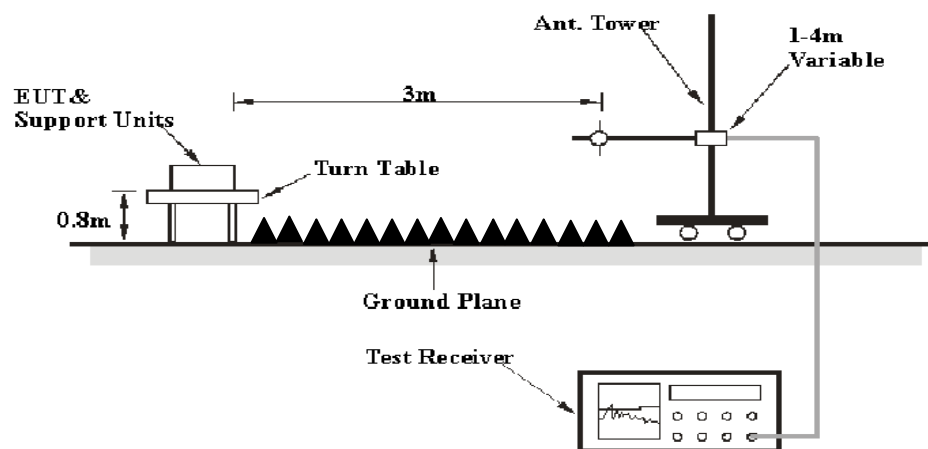
Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 4.0 dB. ($k=2$, 95% level of confidence).

EUT Setup

Below 1 GHz:



Above 1 GHz:



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.

The spacing between the peripherals was 10 cm

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

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:

<i>Frequency Range</i>	<i>RBW</i>	<i>Video B/W</i>	<i>Detector</i>
30 MHz – 1000 MHz	120 kHz	300 kHz	QP
1000 MHz – 25 GHz	1 MHz	3 MHz	PK
1000 MHz – 25 GHz	1 MHz	10 Hz	Ave.

Test Procedure

For radiated emissions, the adapter was connected to the AC floor outlet.

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:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01057	2011-11-24	2012-11-23
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2011-11-17	2012-11-16
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2012-11-27
Mini-Circuits	Amplifier	ZVA-213+	N/A	2011-11-24	2012-11-23
Sunol Sciences	Horn Antenna	DRH-118	A052304	2011-12-01	2012-11-30
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23
Agilent	Spectrum Analyzer	8564E	3943A01781	2012-05-17	2013-05-16
the electro-Mechanics Co.	Horn Antenna	3116	9510-2270	2011-10-14	2012-10-13
R&S	Auto test Software	EMC32	V6.30	N/A	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements.

Test Results Summary

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

3.07 dB at 7440 MHz in the Horizontal polarization

Test Data**Environmental Conditions**

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

The testing was performed by Mick Yin on 2012-07-18.

Test mode: Transmitting

(Scan with GFSK, $\pi/4$ -DQPSK, 8-DPSK, the worst case is BDR Mode (GFSK))

30 MHz ~25 GHz:

Frequency (MHz)	Receiver		Turn Table Degree	Rx Antenna			Cable Loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polarity (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel (2402 MHz)											
2402	70.62	PK	35	1.2	H	29.6	3.03	/	103.25	/	/
2402	34.69	Ave.	35	1.2	H	29.6	3.03	/	67.32	/	/
2491.2	16.32	Ave.	224	1.5	V	30.2	3.11	/	49.63	54	4.37
2341.2	16.99	Ave.	147	1.3	H	29.6	3.03	/	49.62	54	4.38
2491.2	34.87	PK	224	1.5	V	30.2	3.11	/	68.18	74	5.82
2341.2	35.34	PK	147	1.3	H	29.6	3.03	/	67.97	74	6.03
2389.6	15.48	Ave.	87	1.0	H	29.0	2.98	/	47.46	54	6.54
7206	23.01	Ave.	35	1.3	H	38.4	5.16	26.50	40.07	47.32	7.25
2389.6	33.46	PK	87	1.0	H	29.0	2.98	/	65.44	74	8.56
7206	54.03	PK	35	1.3	H	38.4	5.16	26.50	71.09	83.25	12.16
4804	24.72	Ave.	69	1.2	H	34.6	4.30	26.50	37.12	54	16.88
4804	44.56	PK	69	1.2	H	34.6	4.30	26.50	56.96	74	17.04
1657.2	30.82	PK	58	1.1	H	25.9	2.37	26.50	32.59	83.25	50.66
Middle Channel (2441 MHz)											
2441	70.76	PK	56	1.3	H	30.6	3.11	/	104.47	/	/
2441	34.41	Ave.	56	1.3	H	30.6	3.11	/	68.12	/	/
7323	53.71	PK	236	1.5	H	37.9	5.09	26.50	70.2	74	3.80*
7323	32.17	Ave.	236	1.5	H	37.9	5.09	26.50	48.66	54	5.34
2384.2	15.84	Ave.	113	1.3	H	29.6	3.03	/	48.47	54	5.53
2488.7	15.01	Ave.	254	1.2	V	30.2	3.11	/	48.32	54	5.68
2315.3	15.33	Ave.	47	1.1	H	29.0	2.98	/	47.31	54	6.69
2384.2	32.01	PK	113	1.3	H	29.6	3.03	/	64.64	74	9.36
2488.7	31.12	PK	254	1.2	V	30.2	3.11	/	64.43	74	9.57
2315.3	31.32	PK	47	1.1	H	29.0	2.98	/	63.3	74	10.70
9764	17.23	Ave.	314	1.1	H	39.8	6.1	26.50	36.63	48.12	11.49
4882	48.74	PK	168	1.6	H	34.6	4.36	26.50	61.2	74	12.80
4882	25.49	Ave.	168	1.6	H	34.6	4.36	26.50	37.95	54	16.05
9764	32.57	PK	314	1.1	H	39.8	6.1	26.50	51.97	84.47	32.50

Frequency (MHz)	Receiver		Turn Table Degree	Rx Antenna			Cable Loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polarity (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
High Channel (2480 MHz)											
2480	71.30	PK	115	1.6	H	30.60	3.11	/	105.01		
2480	35.01	Ave.	115	1.6	H	30.60	3.11	/	68.72		
7440	55.03	PK	224	1.1	H	37.2	5.2	26.50	70.93	74	3.07*
2483.6	16.83	Ave.	33	1.3	H	30.6	3.11	/	50.54	54	3.46*
2489.1	15.32	Ave.	341	1.2	H	30.6	3.11	/	49.03	54	4.97
7440	33.06	Ave.	224	1.1	H	37.2	5.2	26.50	48.96	54	5.04
2483.6	34.51	PK	33	1.3	H	30.6	3.11	/	68.22	74	5.78
2313.2	15.34	Ave.	24	1.1	H	29.0	2.98	/	47.32	54	6.68
2313.2	33.56	PK	24	1.1	H	29.0	2.98	/	65.54	74	8.46
2489.1	31.21	PK	341	1.2	H	30.6	3.11	/	64.92	74	9.08
4960	26.02	Ave.	135	1.0	H	34.6	4.4	26.50	38.52	54	15.48
4960	43.12	PK	135	1.0	H	34.6	4.4	26.50	55.62	74	18.38
9920	34.08	PK	135	1.2	H	39.8	6.08	26.50	53.46	85.01	31.55

*Within measurement uncertainty!

Note: For 30 MHz to 1GHz, the spurious emissions which 20 dB below the limit or on the system noise floor level are not recorded.

FCC §15.247(a) (1)-CHANNEL SEPARATION TEST**Applicable Standard**

Frequency hopping systems shall have hopping 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.

Test Procedure

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Spectrum analyzer	FSEM 30	10798500	2011-10-09	2012-10-08
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.

Test Data**Environmental Conditions**

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

* The testing was performed by Mick Yin on 2012-07-19.

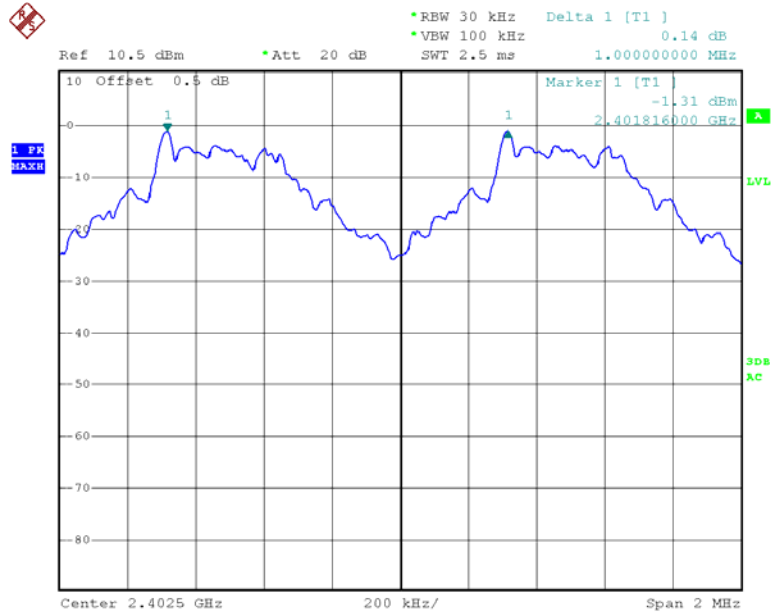
Test Mode: Transmitting

Test Result: Compliance. Please refer to following tables and plots

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	$\geq$ Limit (MHz)	Result
BDR (GFSK)	Low	2402	1.000	0.611	Pass
	Adjacent	2403			
	Middle	2441	1.000	0.611	Pass
	Adjacent	2442			
	High	2480	1.000	0.608	Pass
	Adjacent	2479			
EDR ($\pi/4$-DQPSK)	Low	2402	1.000	0.813	Pass
	Adjacent	2403			
	Middle	2441	1.000	0.811	Pass
	Adjacent	2442			
	High	2480	1.000	0.811	Pass
	Adjacent	2479			
EDR (8DPSK)	Low	2402	1.000	0.803	Pass
	Adjacent	2403			
	Middle	2441	1.008	0.808	Pass
	Adjacent	2442			
	High	2480	1.000	0.805	Pass
	Adjacent	2479			

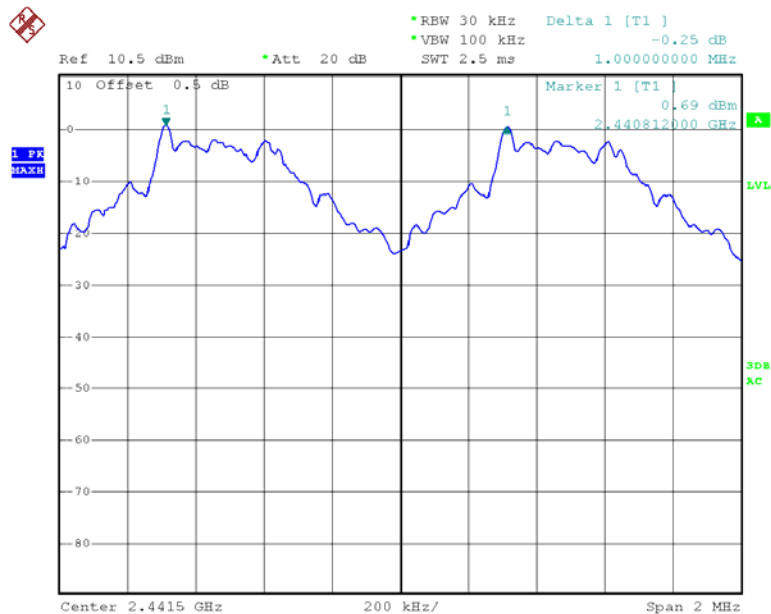
Note: Limit = 20 dB bandwidth *2/3

BDR (GFSK): Low Channel



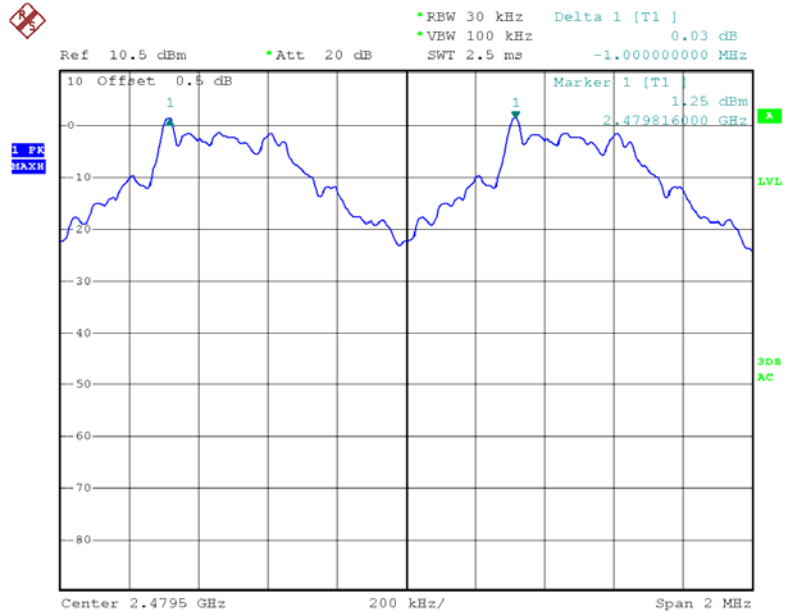
Date: 19.JUL.2012 11:39:26

BDR (GFSK): Middle Channel



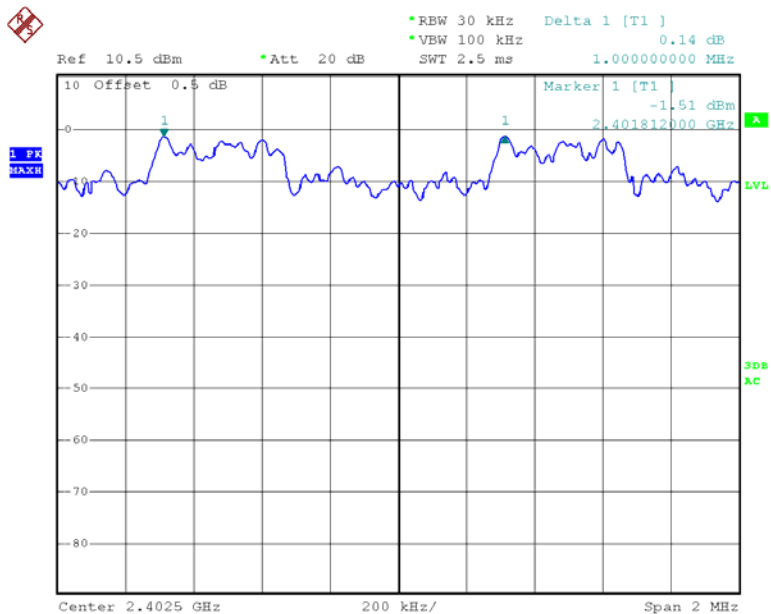
Date: 19.JUL.2012 11:37:38

BDR (GFSK): High Channel



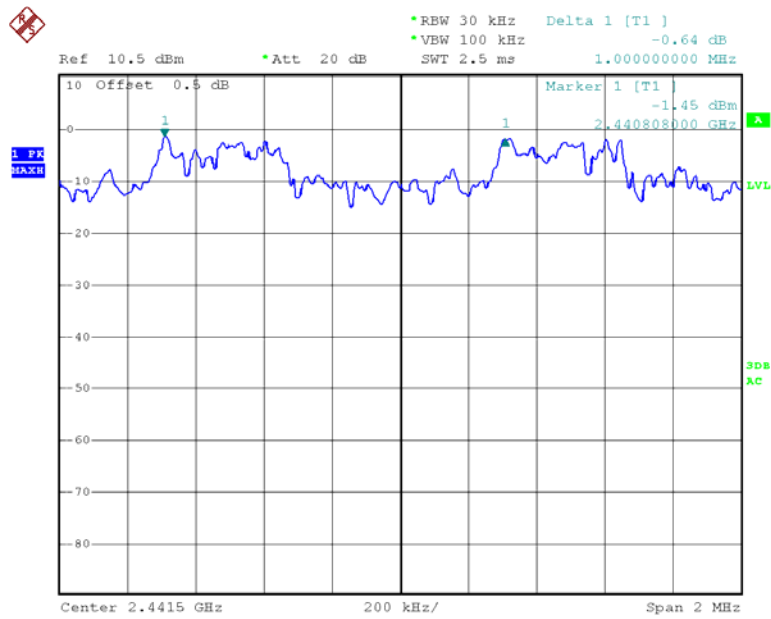
Date: 19.JUL.2012 11:36:26

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



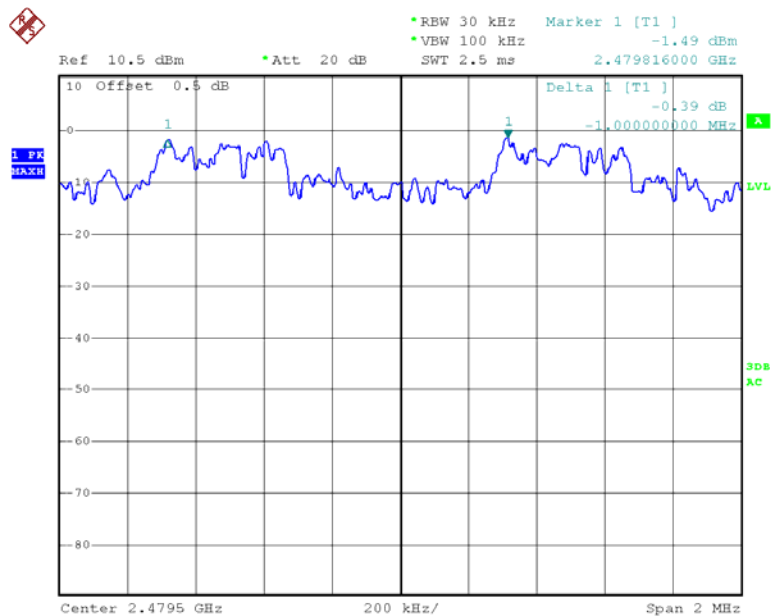
Date: 19.JUL.2012 13:13:23

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



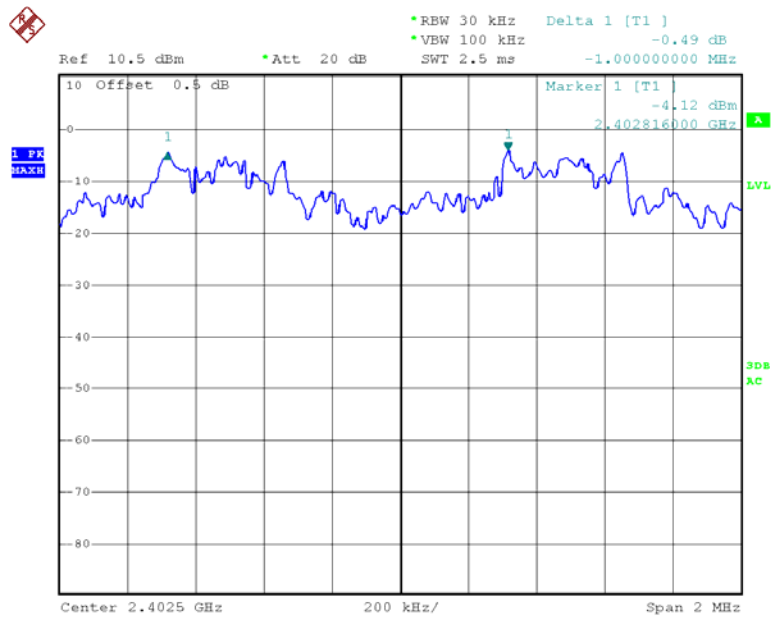
Date: 19.JUL.2012 13:18:25

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



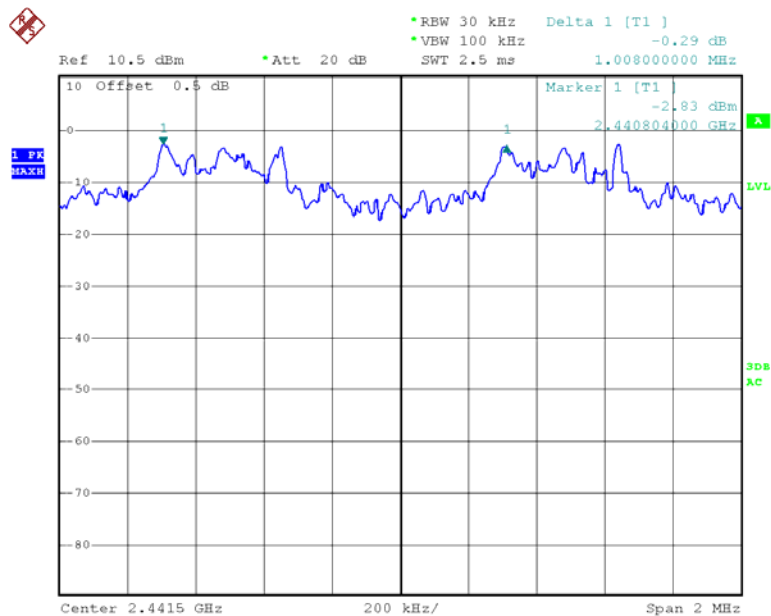
Date: 19.JUL.2012 13:20:13

EDR (8DPSK): Low Channel



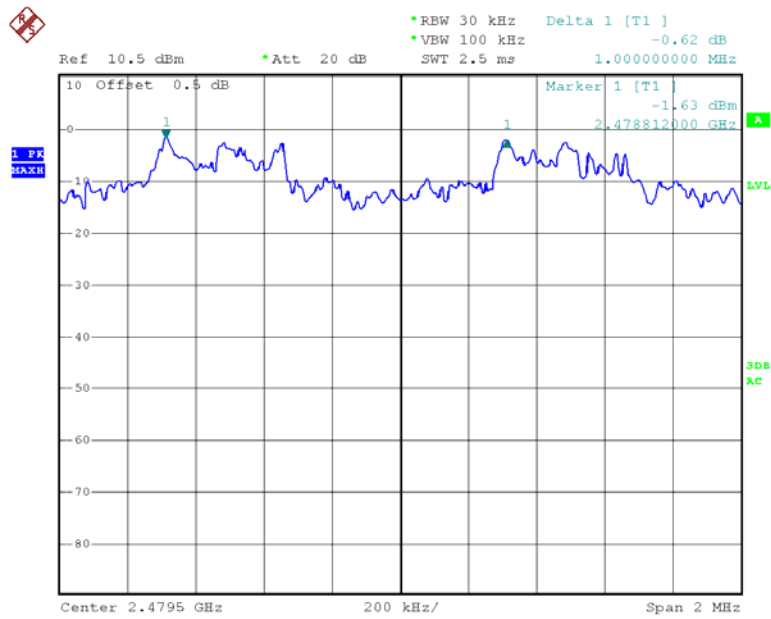
Date: 19.JUL.2012 11:53:59

EDR (8DPSK): Middle Channel



Date: 19.JUL.2012 11:56:07

EDR (8DPSK): High Channel



Date: 19.JUL.2012 11:58:23

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.

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	Spectrum analyzer	FSEM 30	10798500	2011-10-09	2012-10-08
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

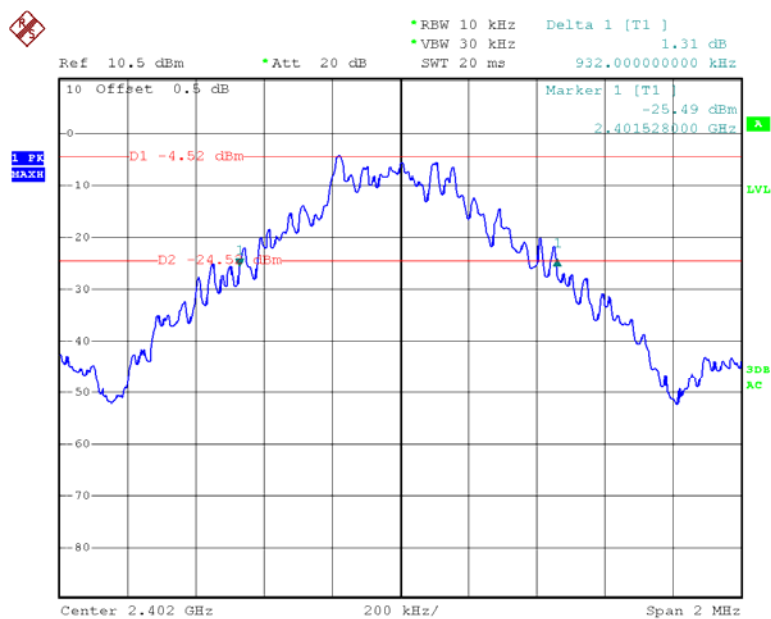
Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100 kPa

* The testing was performed by Mick Yin on 2012-07-19.

Test Mode: Transmitting

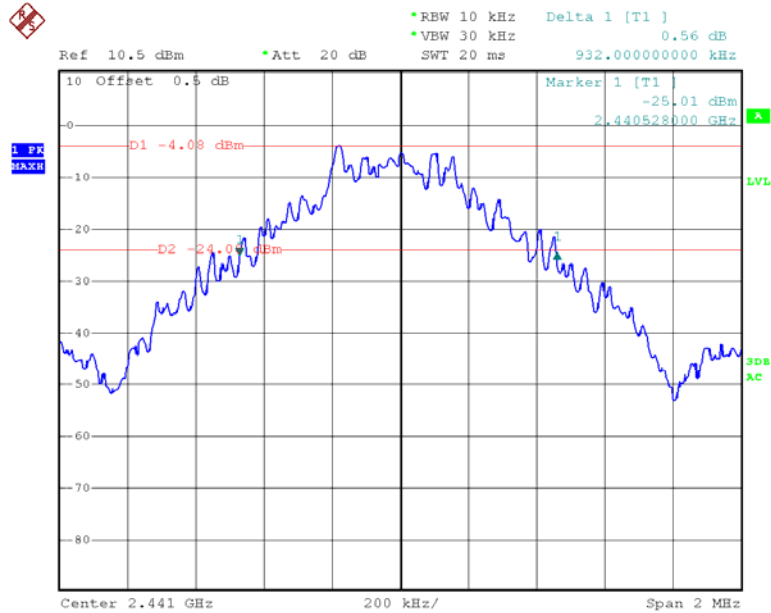
Test Result: Compliance. Please refer to following tables and plots

Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR (GFSK)	Low	2402	0.932
	Middle	2441	0.932
	High	2480	0.932
EDR ($\pi/4$-DQPSK)	Low	2402	1.268
	Middle	2441	1.264
	High	2480	1.260
EDR (8DPSK)	Low	2402	1.232
	Middle	2441	1.228
	High	2480	1.228

BDR (GFSK): Low Channel

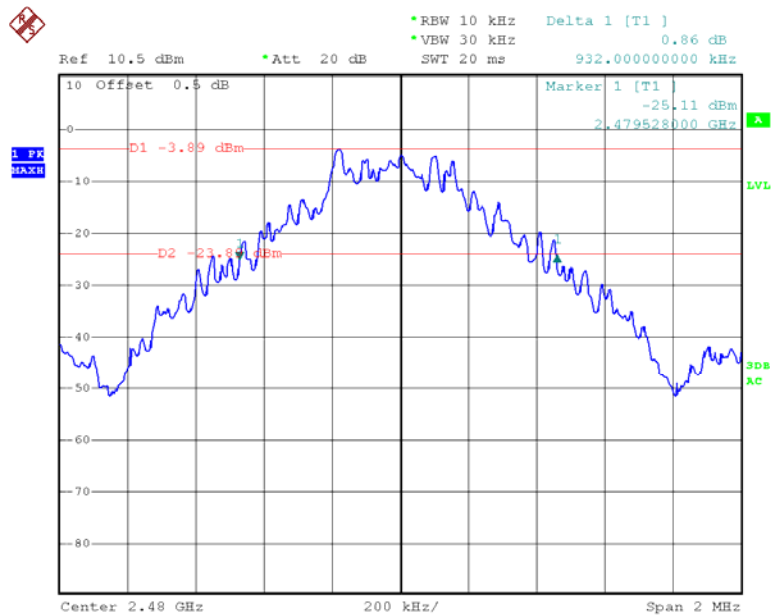
Date: 19.JUL.2012 11:08:36

BDR (GFSK): Middle Channel



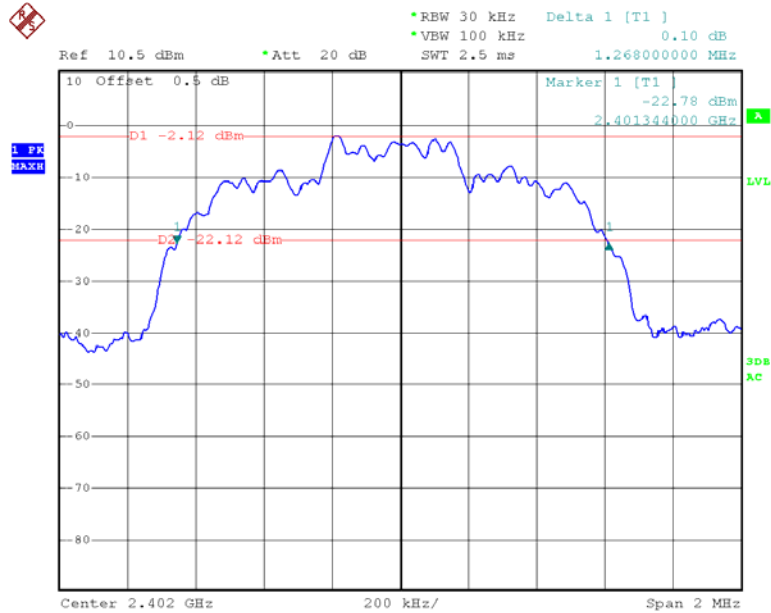
Date: 19.JUL.2012 11:09:47

BDR (GFSK): High Channel



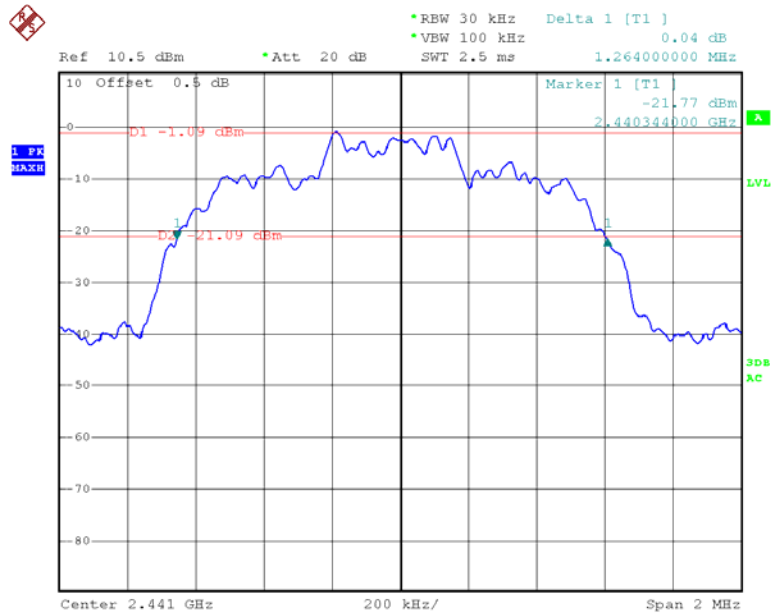
Date: 19.JUL.2012 11:10:58

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

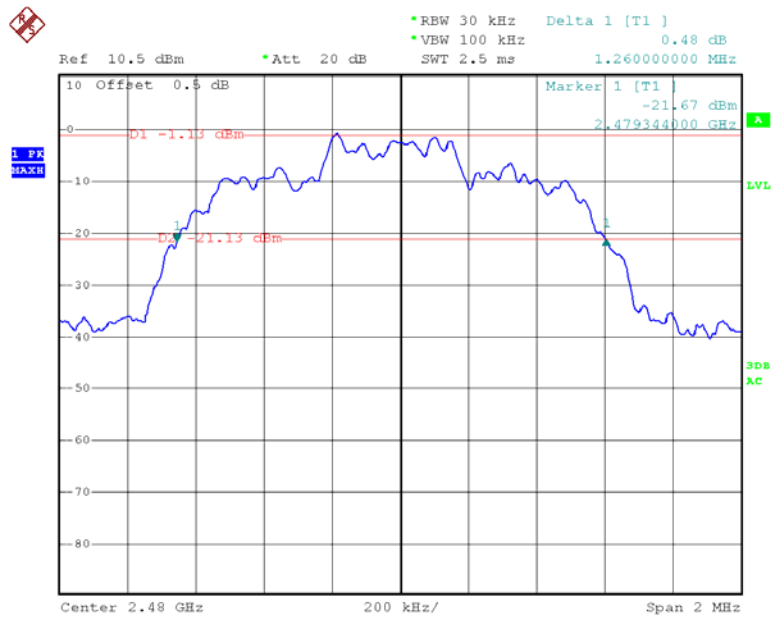


Date: 19.JUL.2012 11:14:47

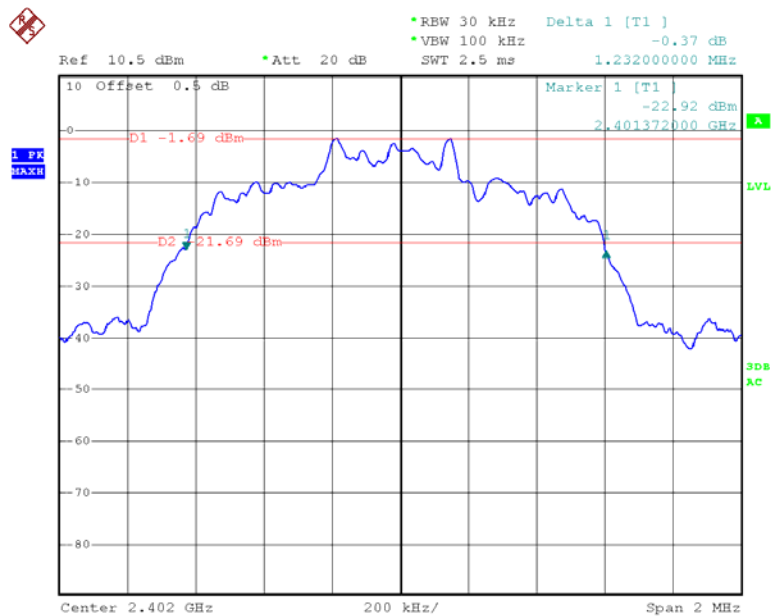
EDR ($\pi/4$ -DQPSK): Middle Channel



Date: 19.JUL.2012 11:13:38

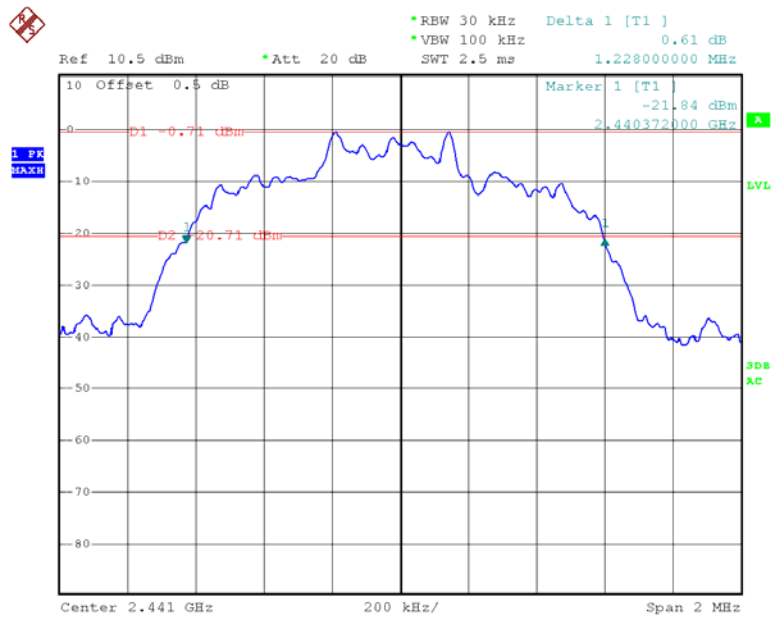
EDR ($\pi/4$ -DQPSK): High Channel

Date: 19.JUL.2012 11:12:25

EDR (8DPSK): Low Channel

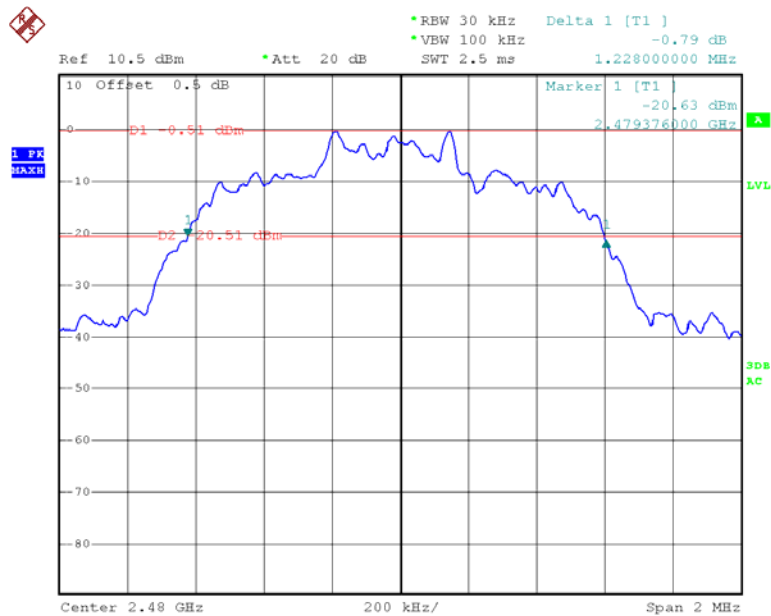
Date: 19.JUL.2012 11:16:03

EDR (8DPSK): Middle Channel



Date: 19.JUL.2012 11:17:17

EDR (8DPSK): High Channel



Date: 19.JUL.2012 11:18:28

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.

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	Spectrum analyzer	FSEM 30	10798500	2011-10-09	2012-10-08
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

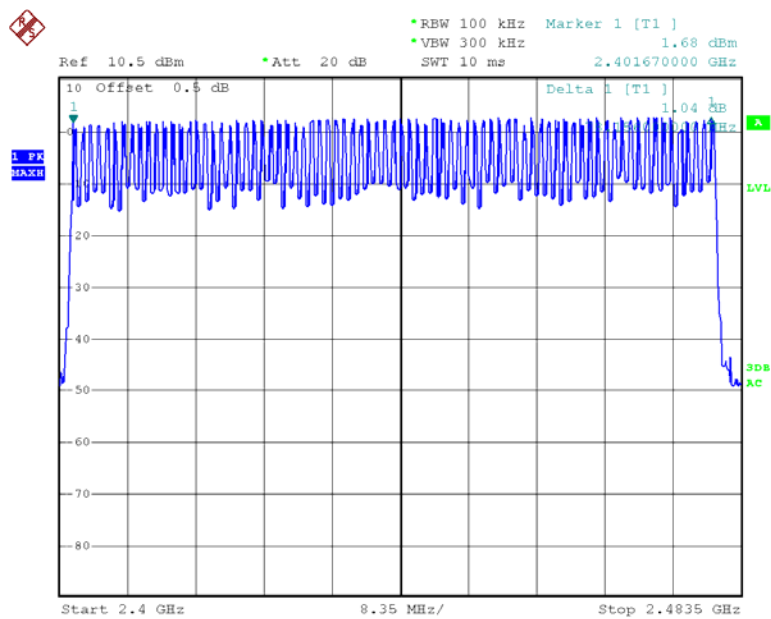
The testing was performed by Mick Yin on 2012-07-19.

Test Mode: Transmitting

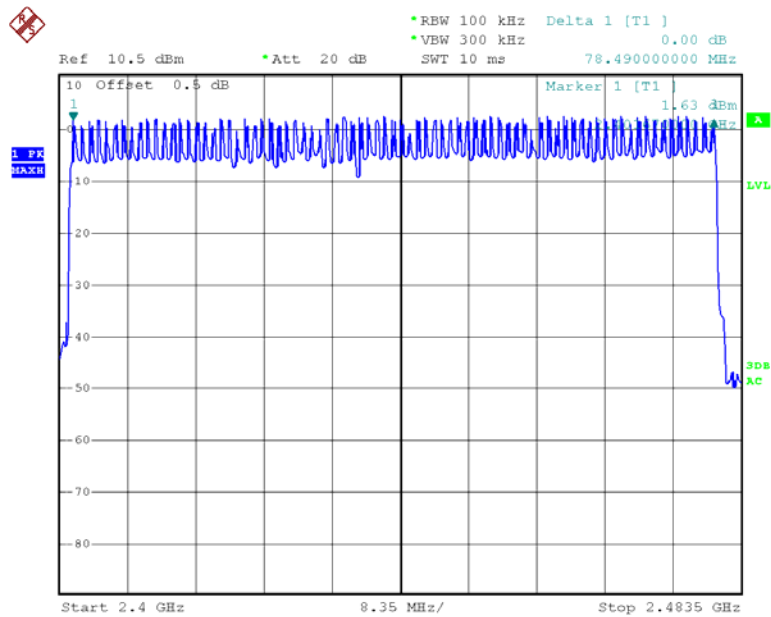
Test Result: Compliance. Please refer to following tables and plots

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

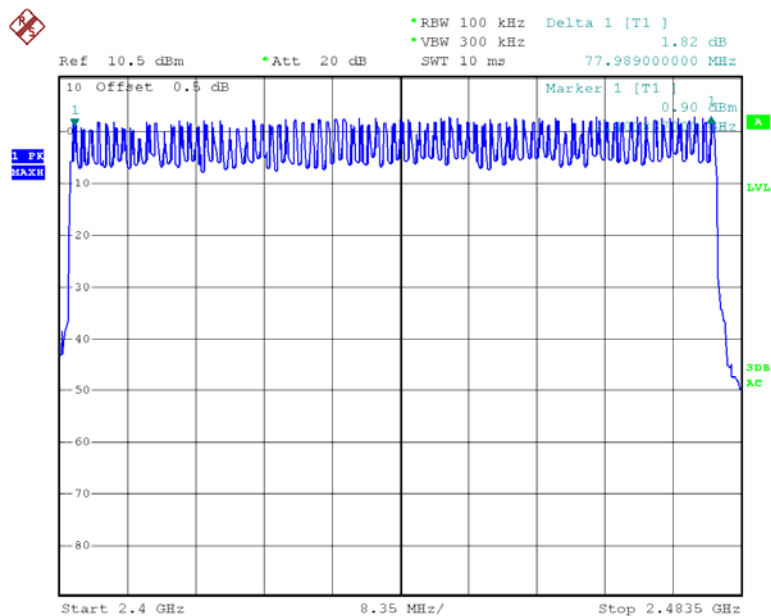
BDR (GFSK): Number of Hopping Channels



Date: 19.JUL.2012 13:27:10

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

Date: 19.JUL.2012 13:22:44

(8DPSK): Number of Hopping Channels

Date: 19.JUL.2012 13:25:16

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.

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*hop 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	Spectrum analyzer	FSEM 30	10798500	2011-10-09	2012-10-08
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.

Test Data**Environmental Conditions**

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

The testing was performed by Mick Yin on 2012-07-19.

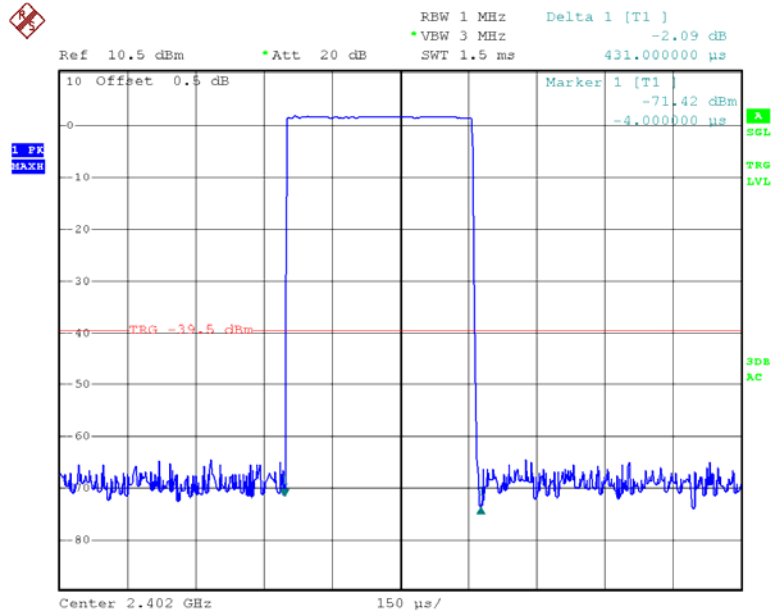
Test Mode: Transmitting

Test Result: Compliance. Please refer to following tables and plots

Mode		Channel	Pulse Width (ms)	Dwell Time (S)	Limit (S)	Result
BDR (GFSK)	DH 1	Low	0.431	0.138	0.4	Pass
		Middle	0.431	0.138	0.4	Pass
		High	0.431	0.138	0.4	Pass
		Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH 3	Low	1.697	0.272	0.4	Pass
		Middle	1.697	0.272	0.4	Pass
		High	1.697	0.272	0.4	Pass
		Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH 5	Low	2.945	0.314	0.4	Pass
		Middle	2.945	0.314	0.4	Pass
		High	2.945	0.314	0.4	Pass
		Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR ($\pi/4$ -DQPSK)	DH 1	Low	0.425	0.136	0.4	Pass
		Middle	0.425	0.136	0.4	Pass
		High	0.422	0.135	0.4	Pass
		Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH 3	Low	1.697	0.272	0.4	Pass
		Middle	1.697	0.272	0.4	Pass
		High	1.689	0.270	0.4	Pass
		Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH 5	Low	2.945	0.314	0.4	Pass
		Middle	2.945	0.314	0.4	Pass
		High	2.945	0.314	0.4	Pass
		Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR (8DPSK)	DH 1	Low	0.425	0.136	0.4	Pass
		Middle	0.425	0.136	0.4	Pass
		High	0.425	0.136	0.4	Pass
		Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH 3	Low	1.697	0.272	0.4	Pass
		Middle	1.697	0.272	0.4	Pass
		High	1.697	0.272	0.4	Pass
		Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH 5	Low	2.945	0.314	0.4	Pass
		Middle	2.945	0.314	0.4	Pass
		High	2.945	0.314	0.4	Pass
		Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				

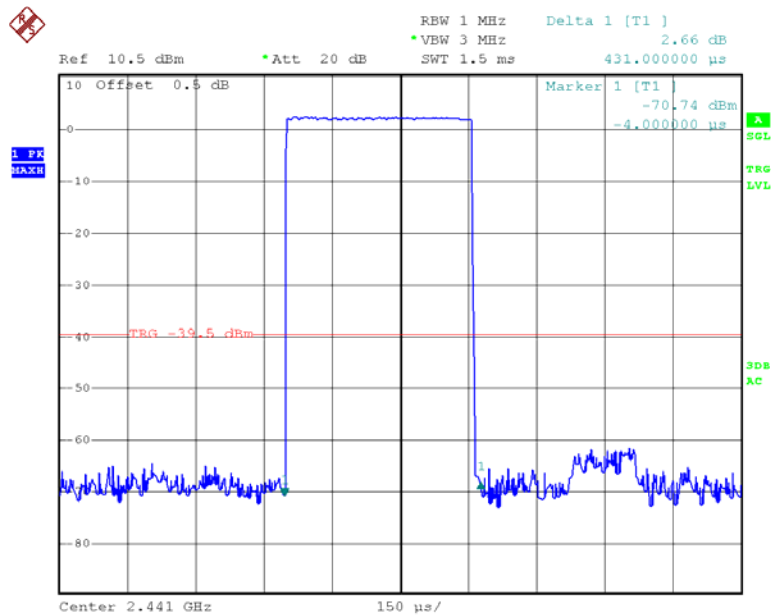
BDR (GFSK):

Pulse time, Low Channel, DH1



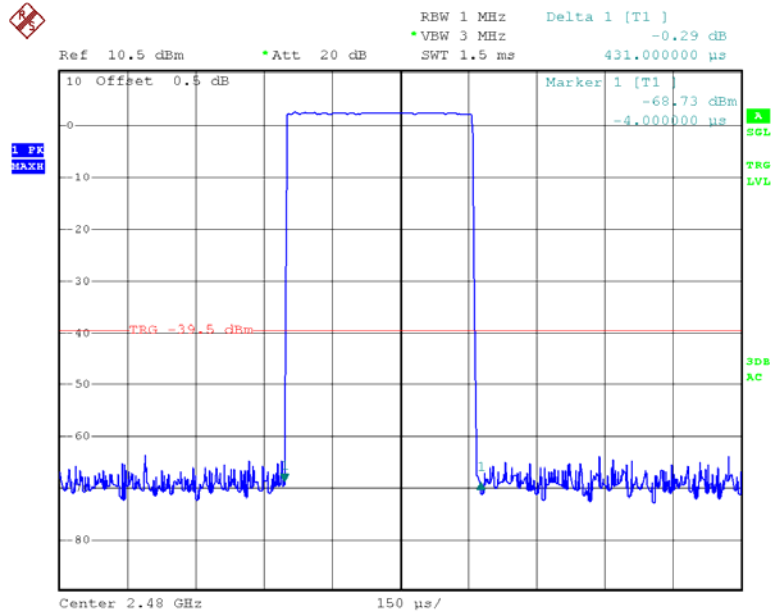
Date: 19.JUL.2012 13:29:09

Pulse time, Middle Channel, DH1



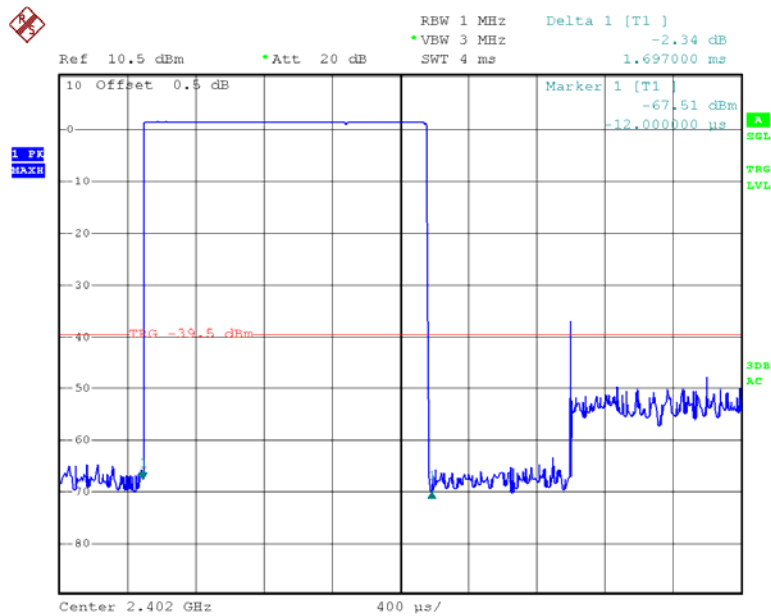
Date: 19.JUL.2012 13:29:36

Pulse time, High Channel, DH1



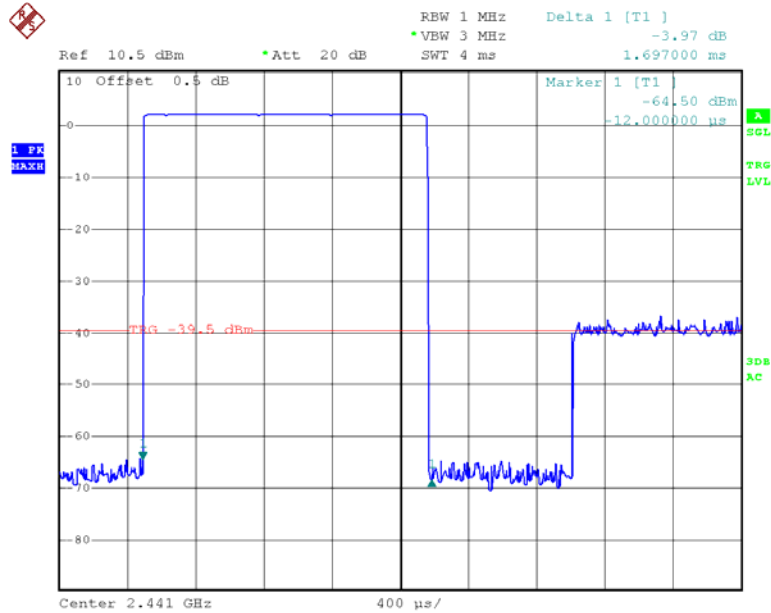
Date: 19.JUL.2012 13:30:03

Pulse time, Low Channel, DH3



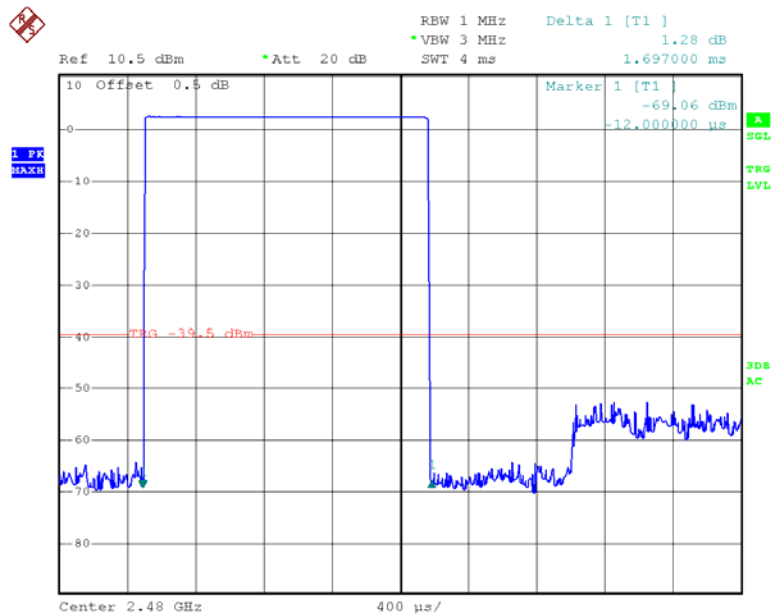
Date: 19.JUL.2012 13:39:50

Pulse time, Middle Channel, DH3



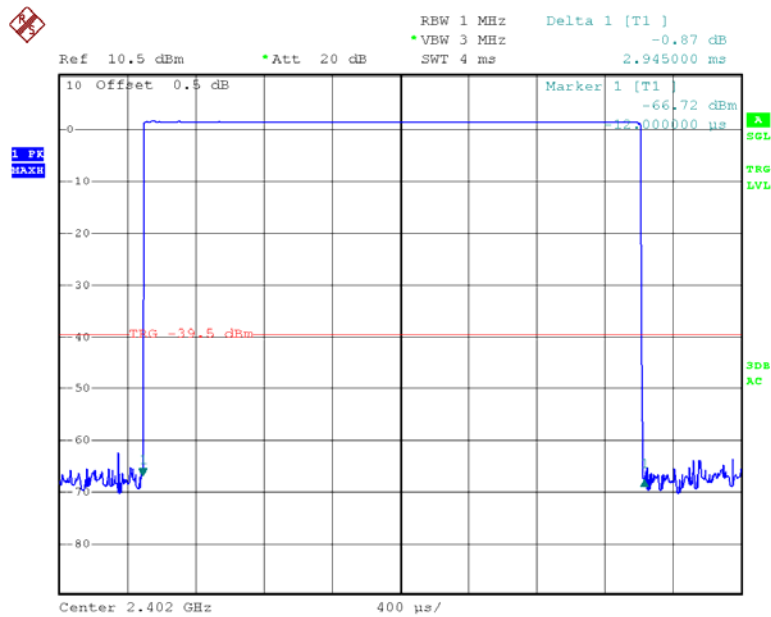
Date: 19.JUL.2012 13:39:26

Pulse time, High Channel, DH3



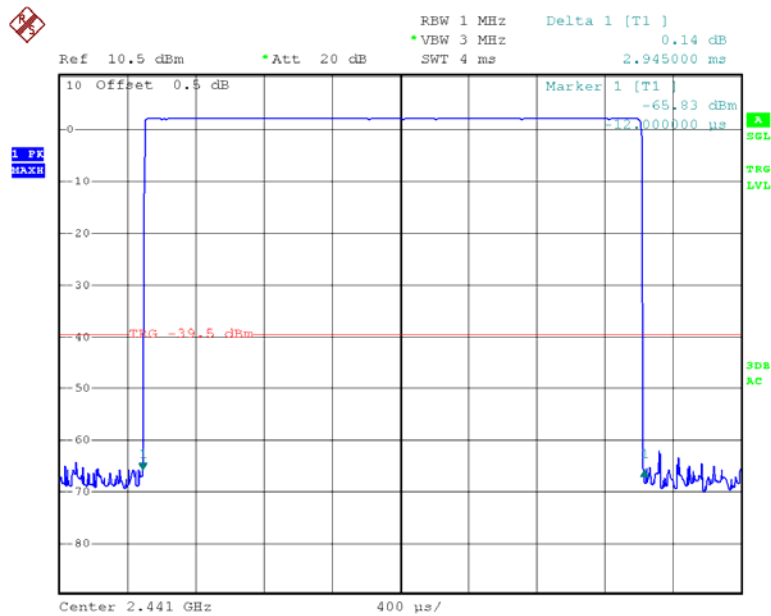
Date: 19.JUL.2012 13:38:41

Pulse time, Low Channel, DH5



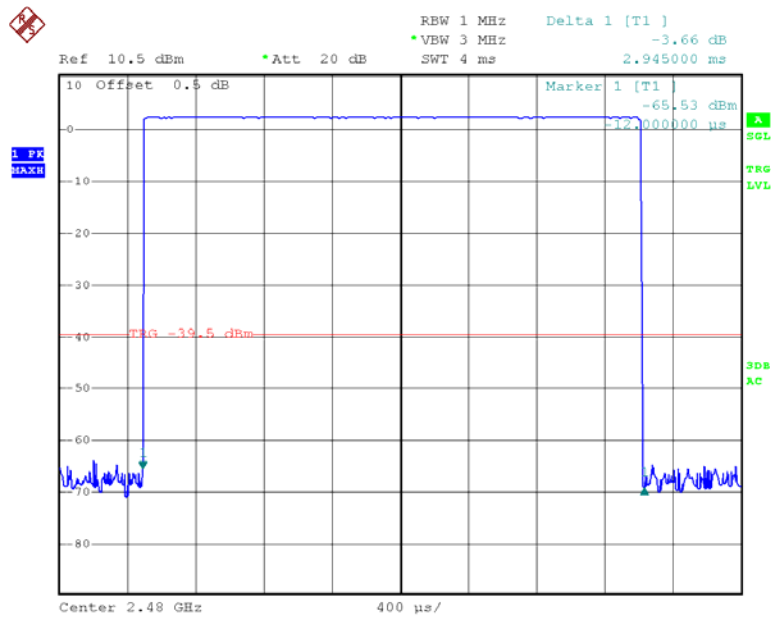
Date: 19.JUL.2012 13:40:42

Pulse time, Middle Channel, DH5



Date: 19.JUL.2012 13:41:03

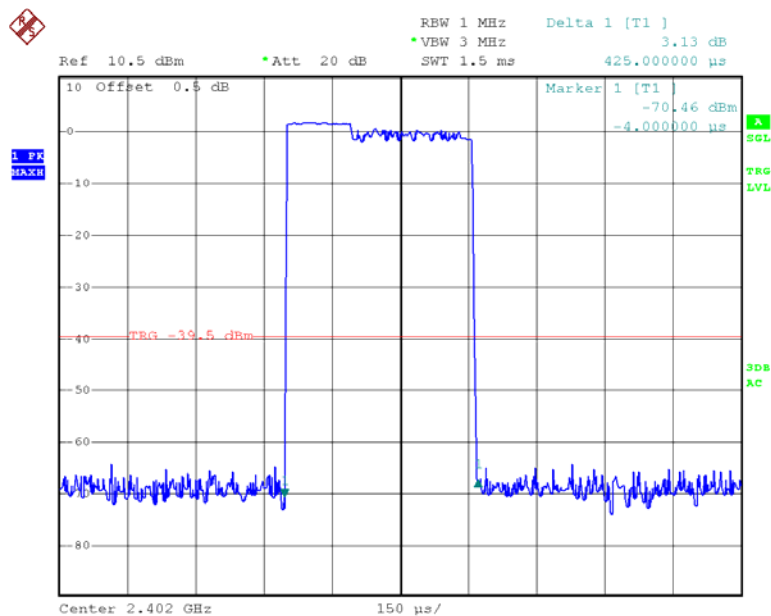
Pulse time, High Channel, DH5



Date: 19.JUL.2012 13:41:22

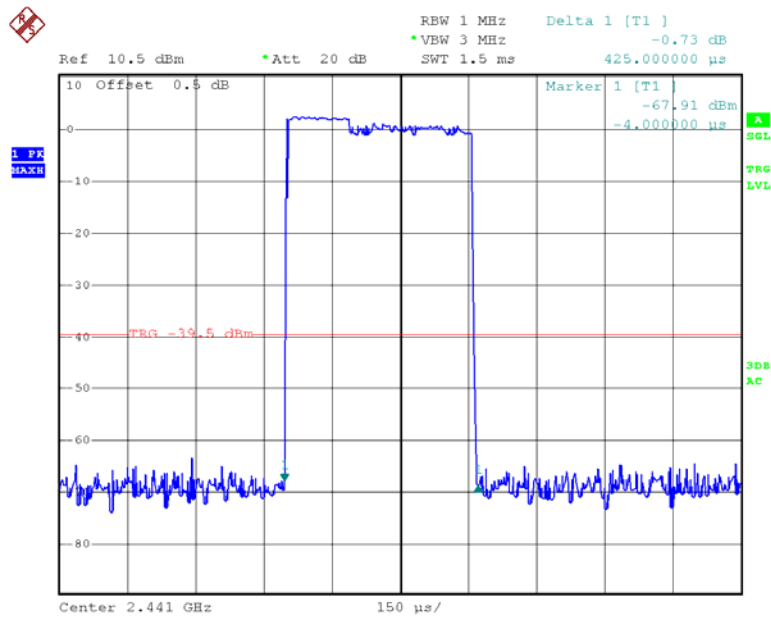
EDR ($\pi/4$ -DQPSK):

Pulse time, Low Channel, DH1



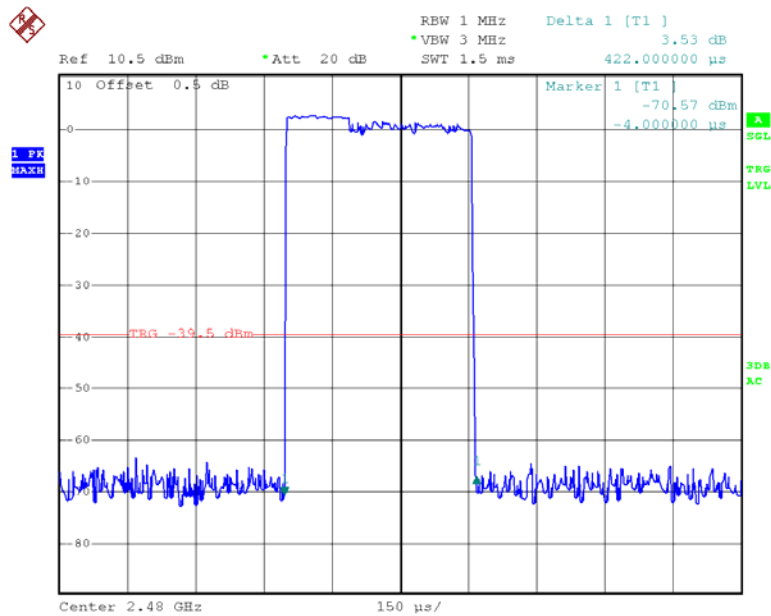
Date: 19.JUL.2012 13:32:01

Pulse time, Middle Channel, DH1



Date: 19.JUL.2012 13:31:22

Pulse time, High Channel, DH1



Date: 19.JUL.2012 13:30:49

RBW 1 MHz Delta 1 [T1]
 -1.28 dB
 Ref 10.5 dBm Att 20 dB
 VEW 3 MHz
 SWT 4 ms 1.697000 ms

10 Offset 0.5 dB
 Marker 1 [T1]
 -65.98 dBm
 -12.000000 us

1 PK
 MAXH

TRG -39.5 dBm

3dB
 AC

Center 2.402 GHz 400 us/

Ref 10.5 dBm *Att 20 dB REW 1 MHz Delta 1 [T1] 0.77 dB
 *VEW 3 MHz SWT 4 ms 1.697000 ms

10 Offset 0.5 dB Marker 1 [T1] -67.39 dBm -12.000000 us

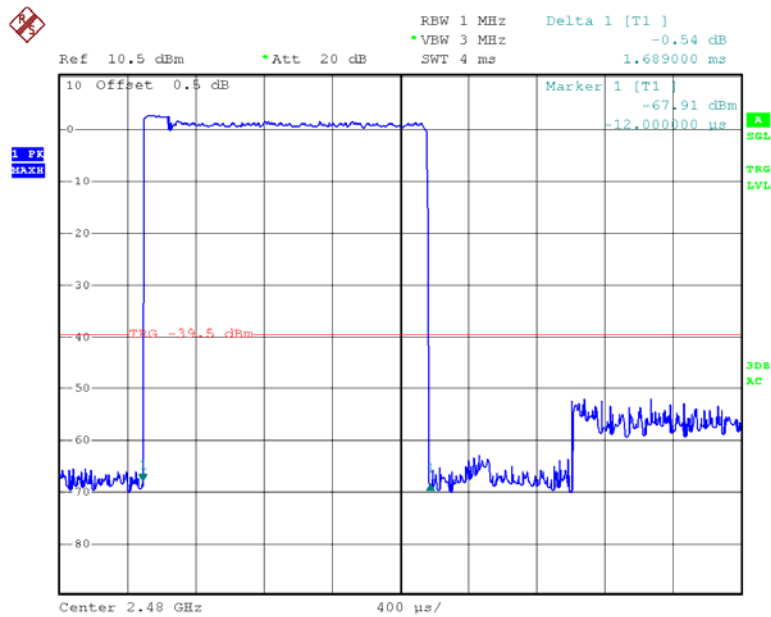
1 PK MAXH

TRG -39.5 dBm

Center 2.441 GHz 400 us/

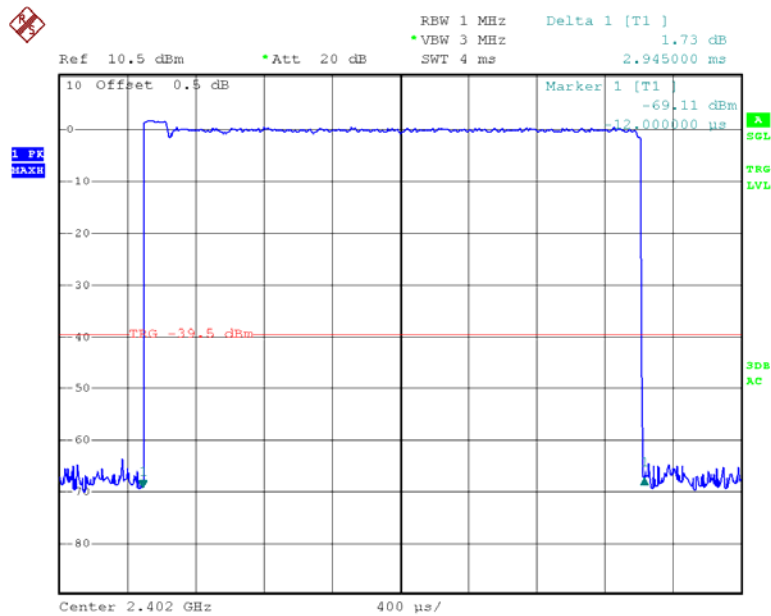
Page 44 of 63

Pulse time, High Channel, DH3



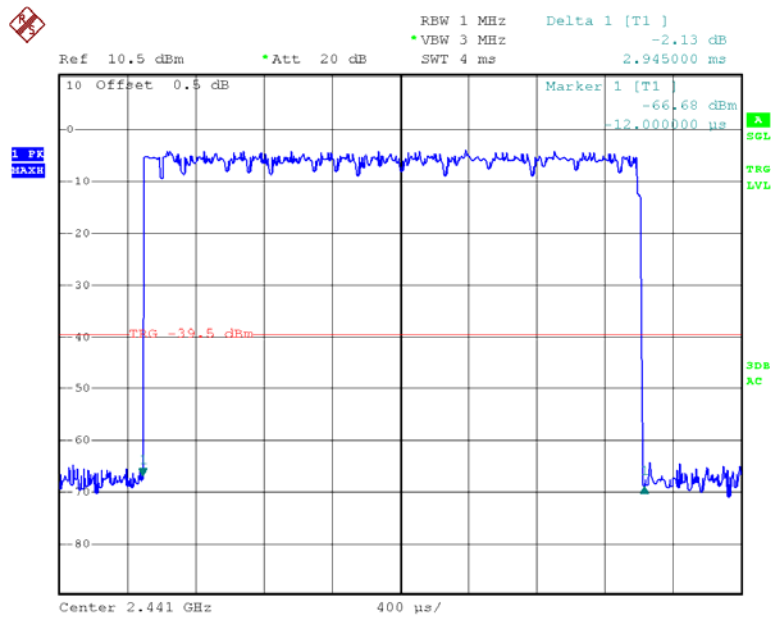
Date: 19.JUL.2012 13:35:40

Pulse time, Low Channel, DH5



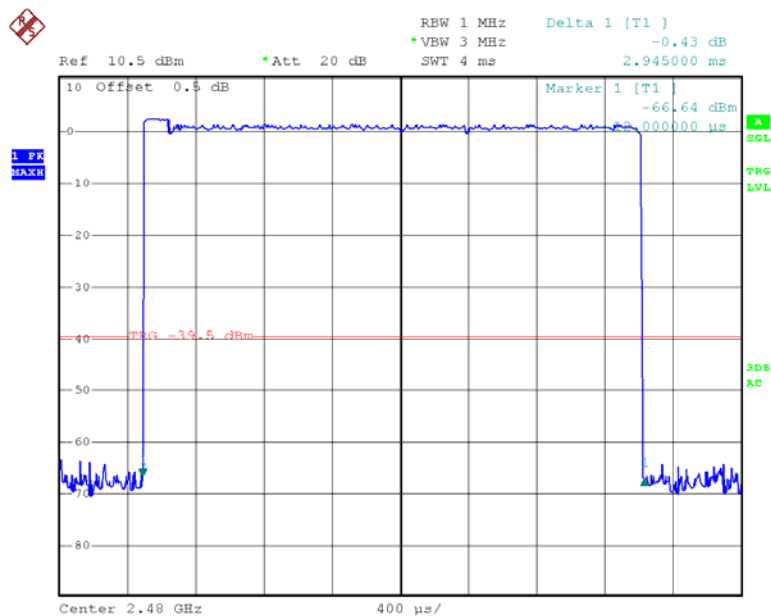
Date: 19.JUL.2012 13:42:20

Pulse time, Middle Channel, DH5



Date: 19.JUL.2012 13:43:09

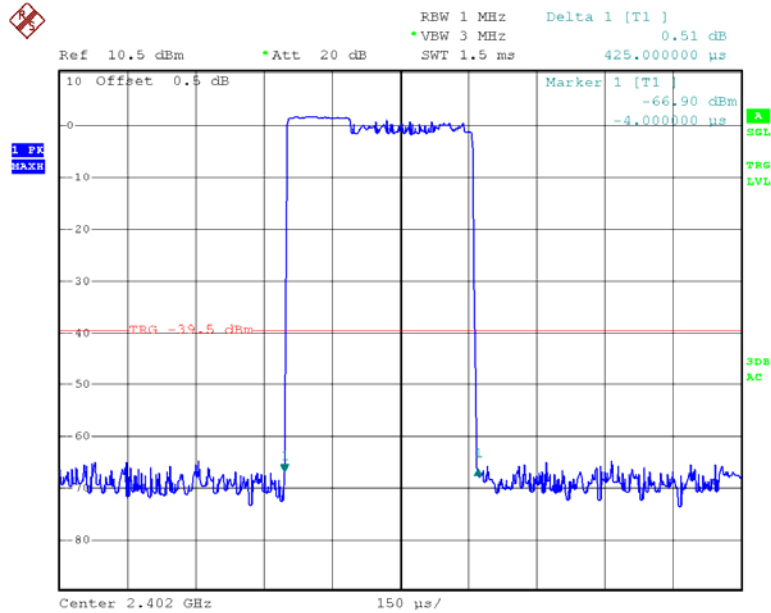
Pulse time, High Channel, DH5



Date: 19.JUL.2012 13:43:38

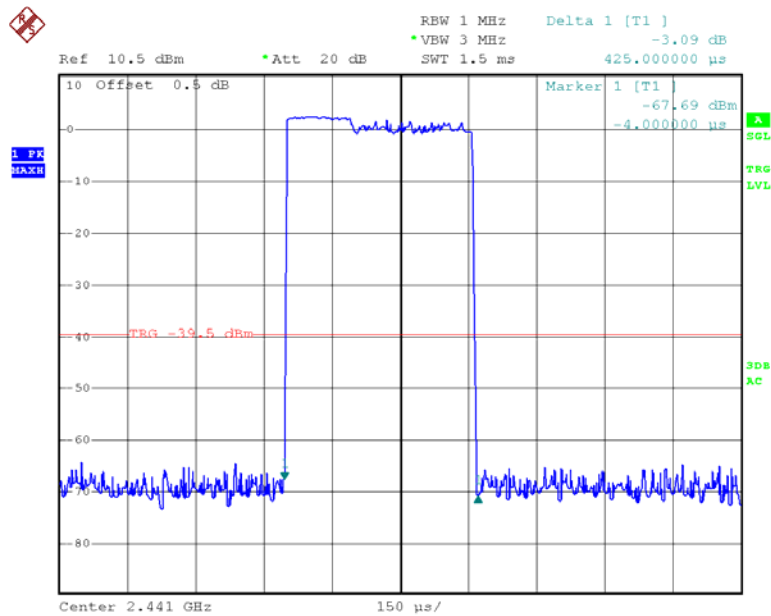
EDR (8DPSK):

Pulse time, Low Channel, DH1

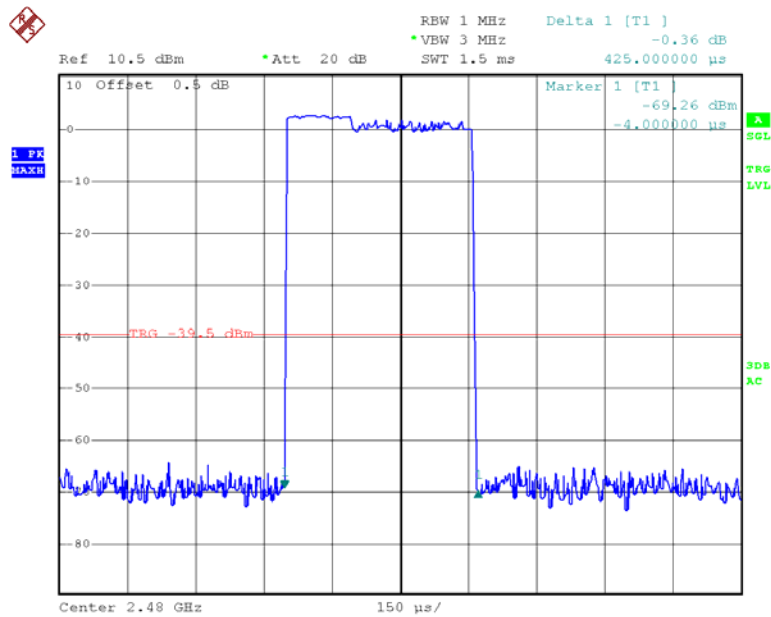


Date: 19.JUL.2012 13:32:44

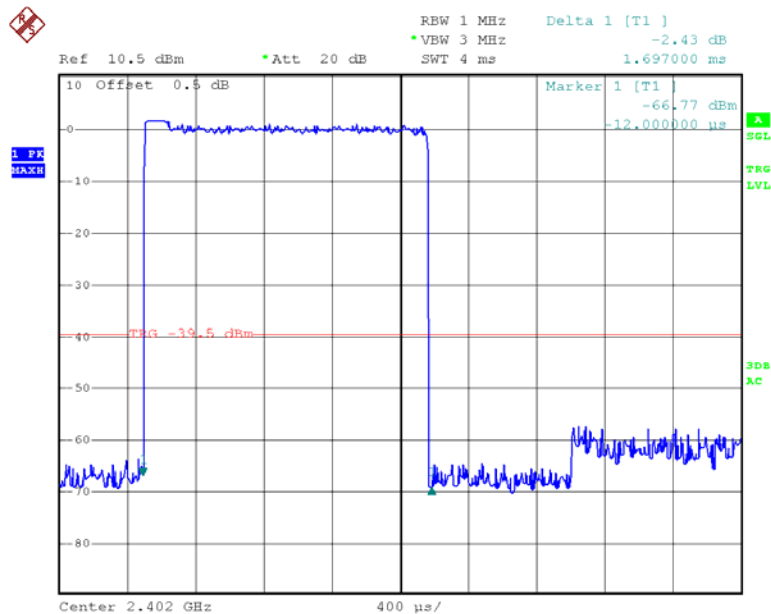
Pulse time, Middle Channel, DH1



Date: 19.JUL.2012 13:33:02

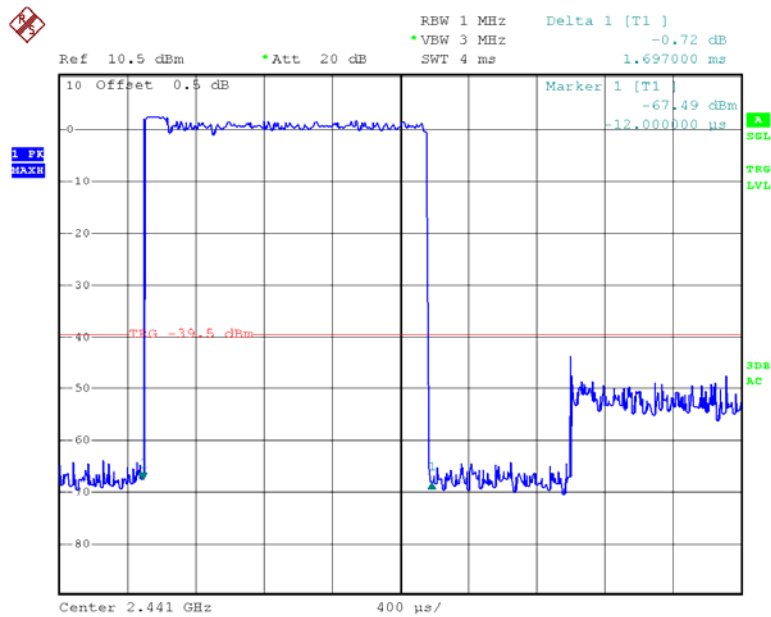
Pulse time, High Channel, DH1

Date: 19.JUL.2012 13:33:18

Pulse time, Low Channel, DH3

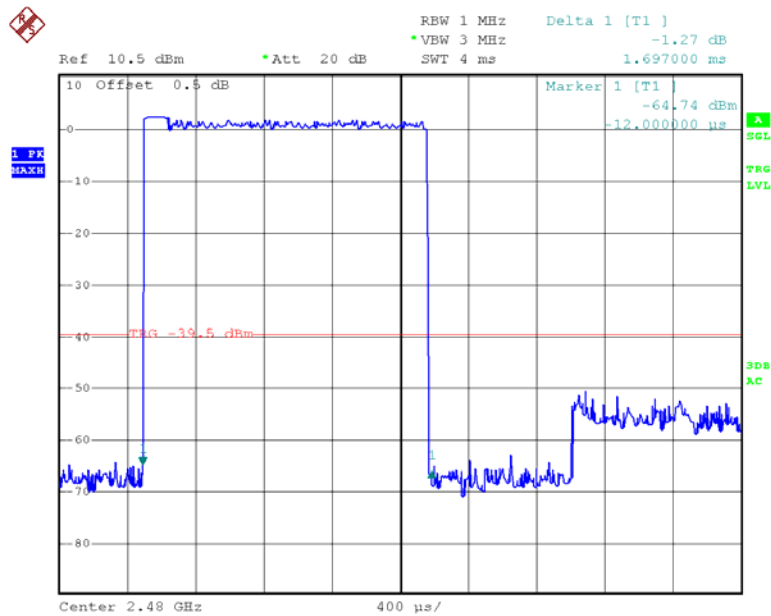
Date: 19.JUL.2012 13:37:04

Pulse time, Middle Channel, DH3



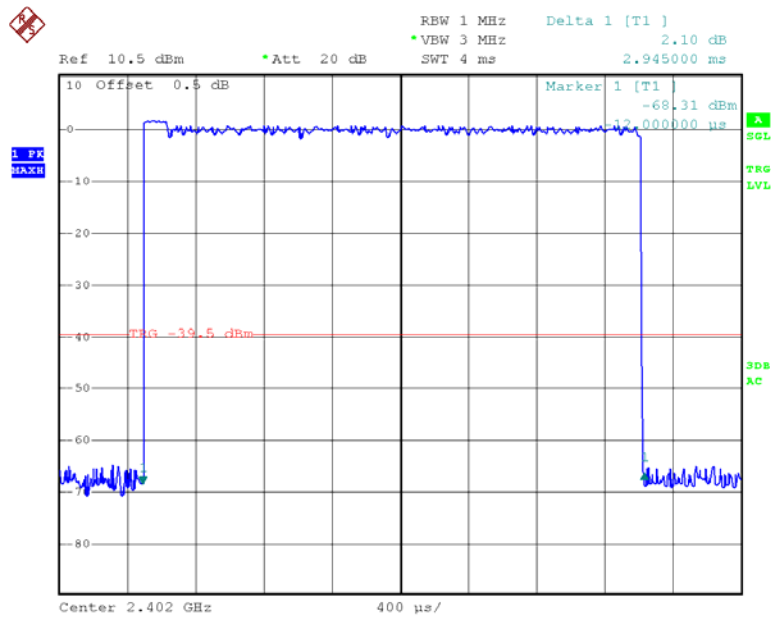
Date: 19.JUL.2012 13:37:37

Pulse time, High Channel, DH3



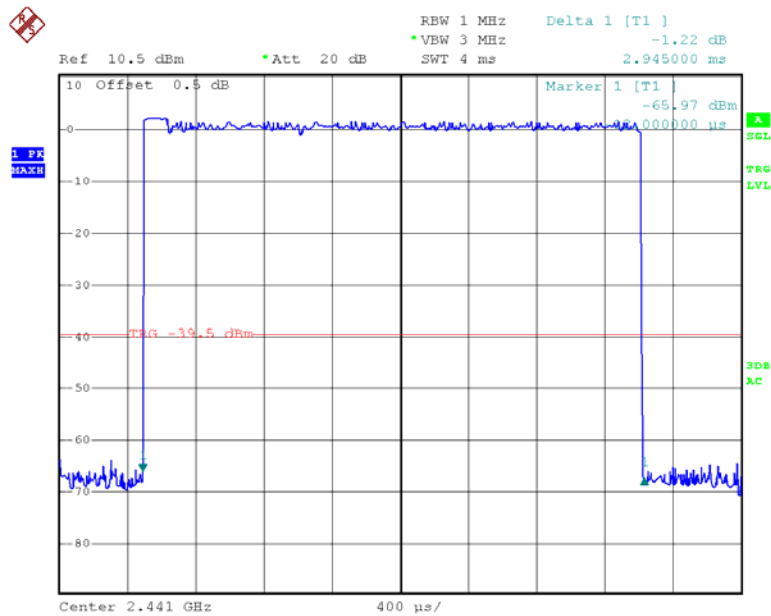
Date: 19.JUL.2012 13:38:03

Pulse time, Low Channel, DH5



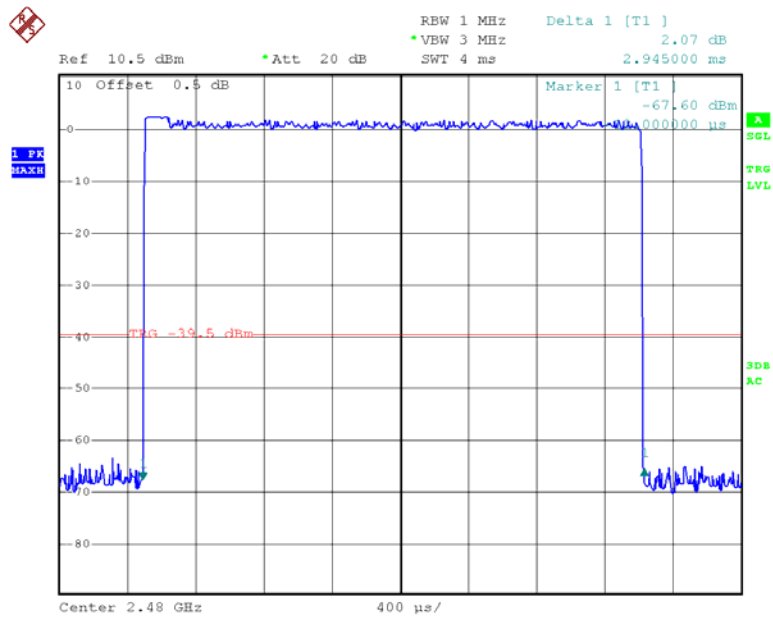
Date: 19.JUL.2012 13:44:13

Pulse time, Middle Channel, DH5



Date: 19.JUL.2012 13:44:56

Pulse time, High Channel, DH5



Date: 19.JUL.2012 13:45:12

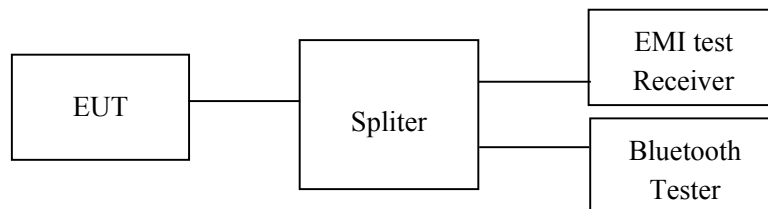
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

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.

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	Spectrum analyzer	FSEM 30	10798500	2011-10-09	2012-10-08
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.

Test Data

Environmental Conditions

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

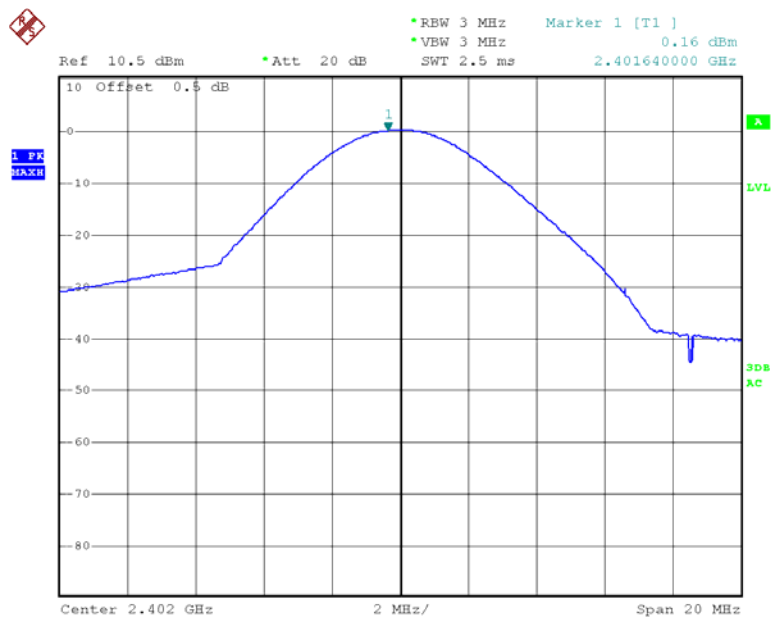
The testing was performed by Mick Yin on 2012-07-19.

Test Mode: Transmitting

Test Result: Compliance. Please refer to following tables and plots

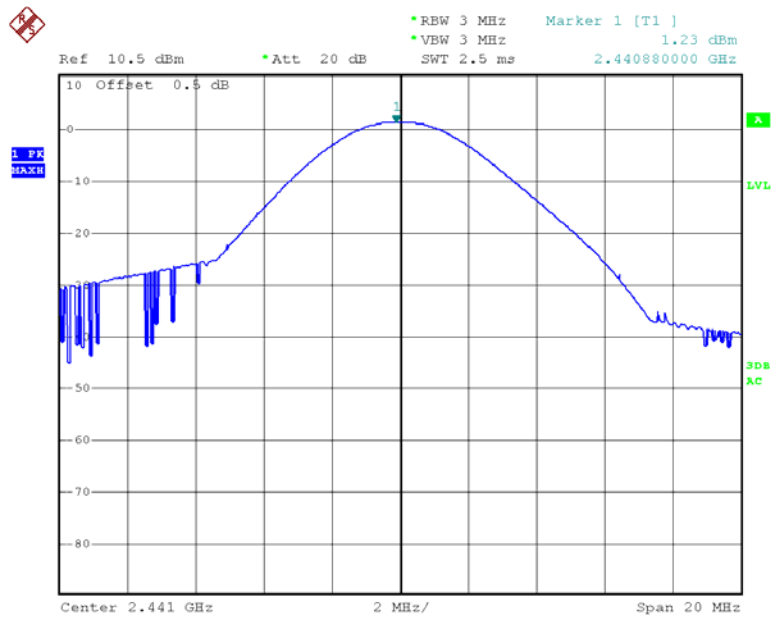
Mode	Channel	Frequency (MHz)	Conducted Output Power		Limit (mW)
			(dBm)	(mW)	
BDR (GFSK)	Low	2402	0.16	1.038	1000
	Middle	2441	1.23	1.327	1000
	High	2480	1.82	1.521	1000
EDR ($\pi/4$ -DQPSK)	Low	2402	0.11	1.026	1000
	Middle	2441	1.32	1.355	1000
	High	2480	1.71	1.483	1000
EDR (8DPSK)	Low	2402	0.00	1.000	1000
	Middle	2441	1.23	1.327	1000
	High	2480	1.77	1.503	1000

BDR (GFSK): Low Channel



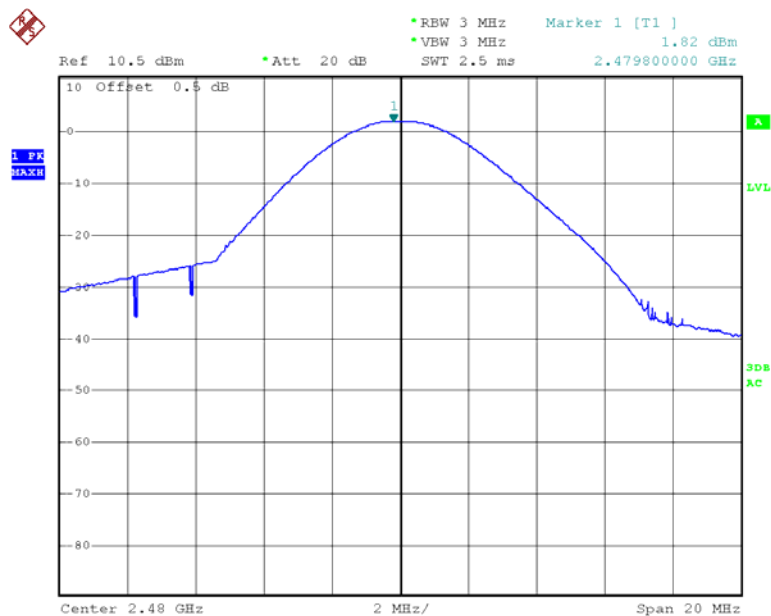
Date: 19.JUL.2012 11:33:11

BDR (GFSK): Middle Channel



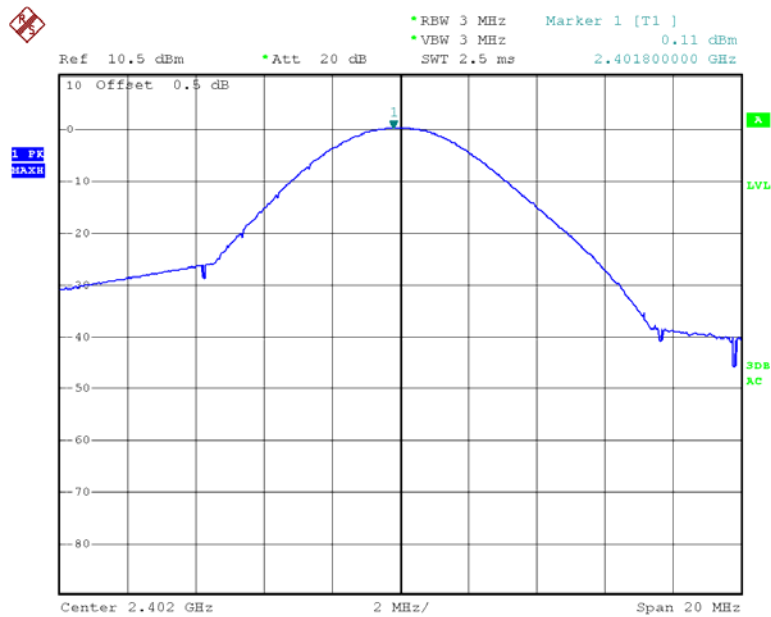
Date: 19.JUL.2012 11:33:46

BDR (GFSK): High Channel



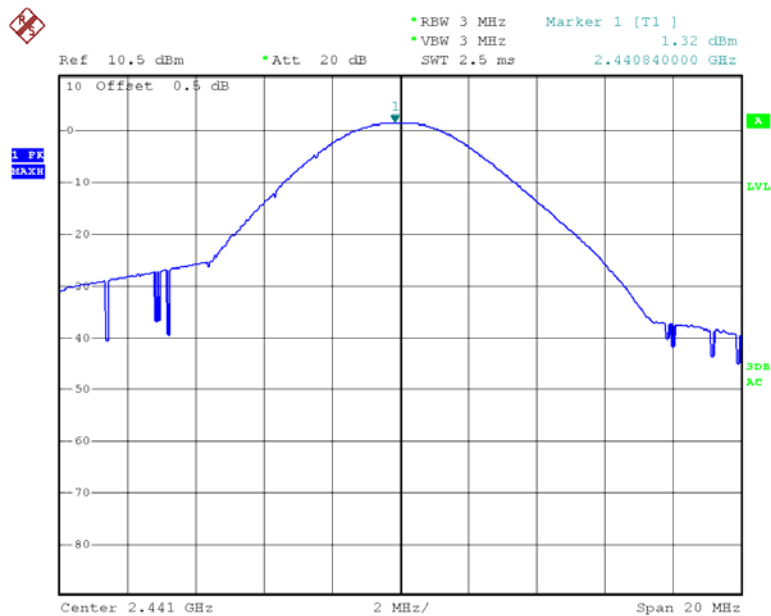
Date: 19.JUL.2012 11:34:27

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



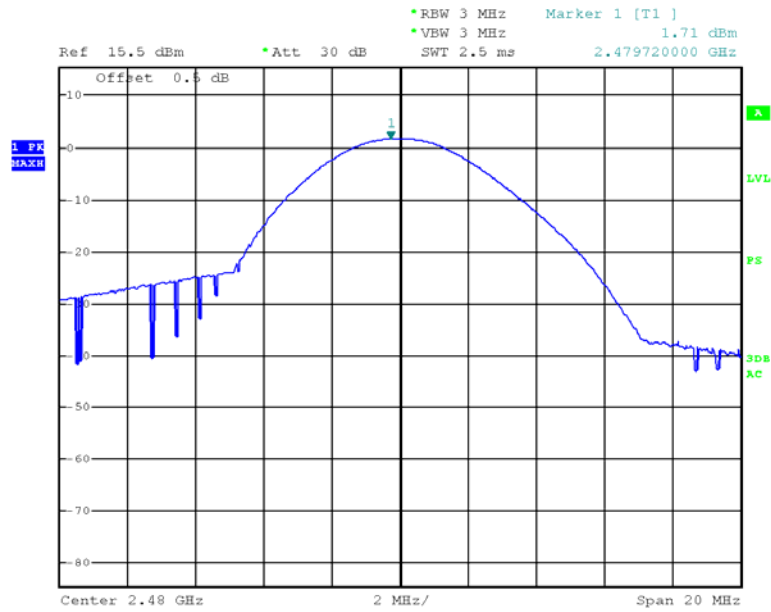
Date: 19.JUL.2012 11:29:53

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



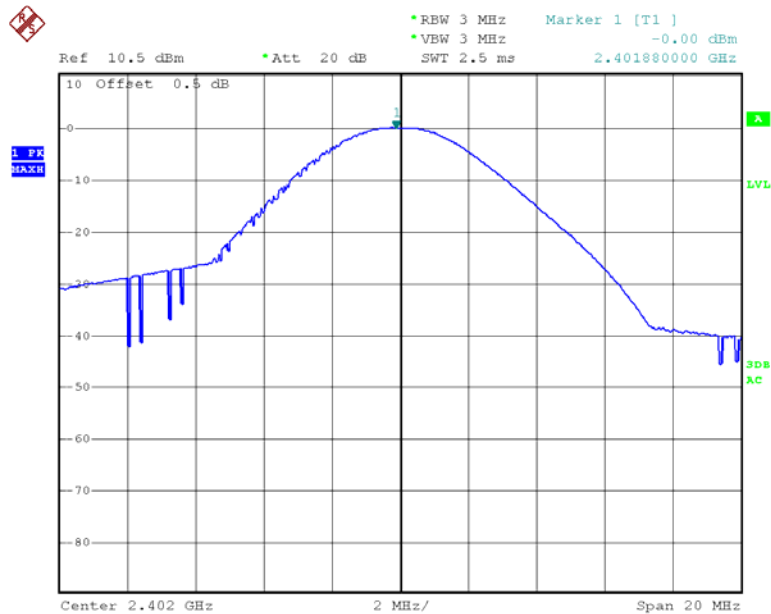
Date: 19.JUL.2012 11:29:09

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



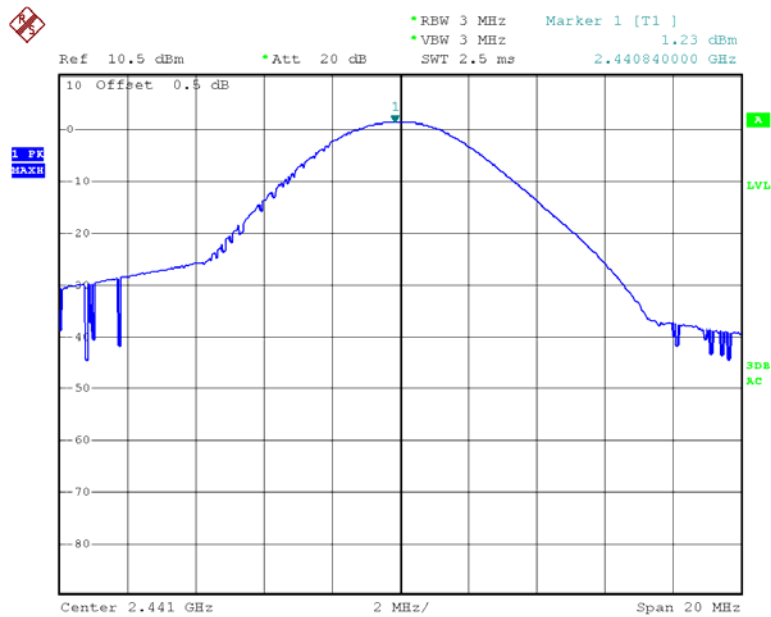
Date: 19.JUL.2012 19:57:53

EDR(8DPSK): Low Channel



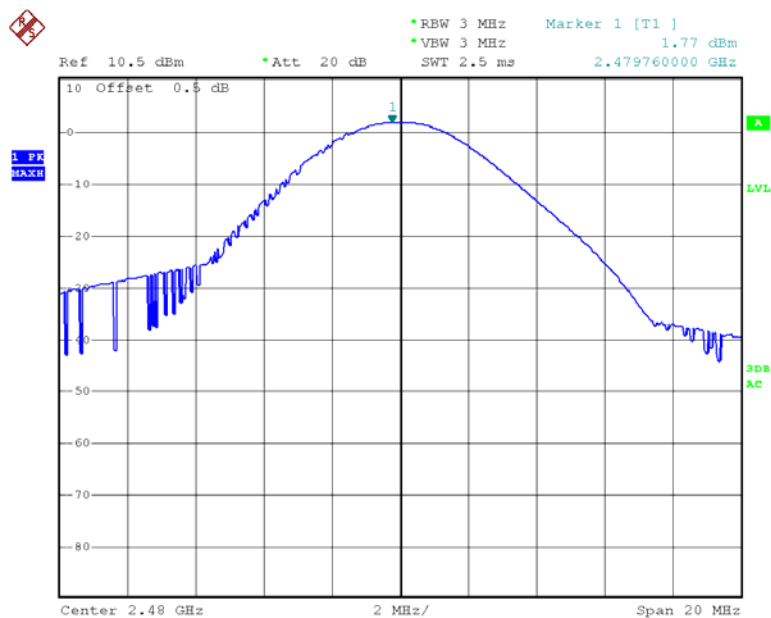
Date: 19.JUL.2012 11:32:23

EDR(8DPSK): Middle Channel



Date: 19.JUL.2012 11:31:44

EDR(8DPSK): High Channel



Date: 19.JUL.2012 11:31:08

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)).

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 RBW of spectrum analyzer to 1 MHz 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	Spectrum analyzer	FSEM 30	10798500	2011-10-09	2012-10-08
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.

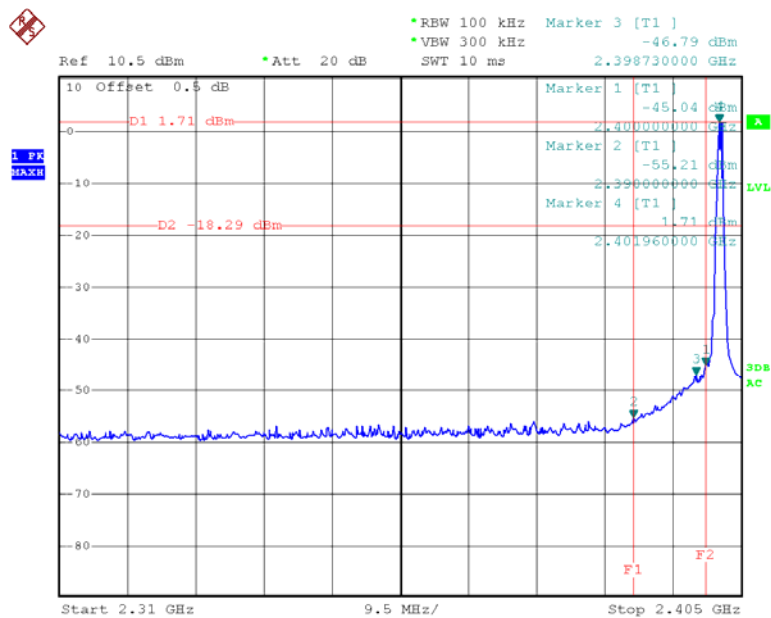
Test Data**Environmental Conditions**

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

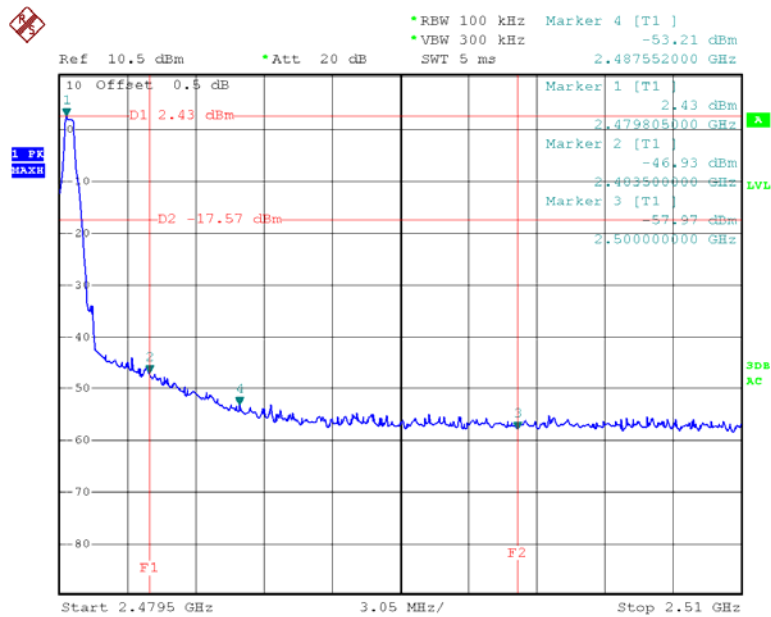
The testing was performed by Mick Yin on 2012-07-19.

Test Mode: Transmitting

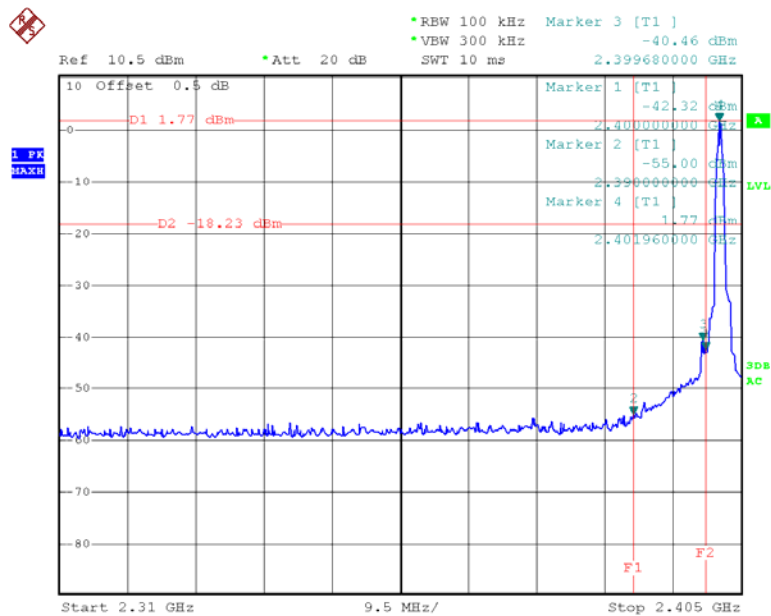
Test Result: Compliance. Please refer to following plots

BDR (GFSK): Band Edge-Left Side

Date: 19.JUL.2012 13:51:46

BDR (GFSK): Band Edge-Right Side

Date: 19.JUL.2012 13:53:44

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

Date: 19.JUL.2012 13:48:20

Ref 10.5 dBm Att 20 dB RBW 100 kHz VBW 300 kHz SWT 5 ms Marker 4 [T1] 2.487186000 GHz -52.74 dBm

10 Offset 0.5 dB

Marker 1 [T1] 2.38 dBm 2.479805000 GHz

Marker 2 [T1] -48.02 dBm 2.493500000 GHz

Marker 3 [T1] -57.71 dBm 2.500000000 GHz

D1 2.38 dBm

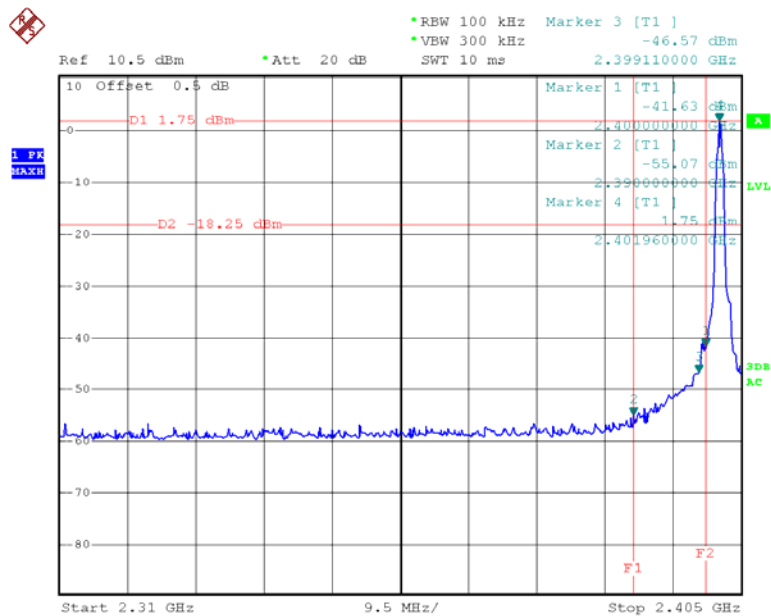
D2 -17.62 dBm

F1 F2

Start 2.4795 GHz 3.05 MHz/ Stop 2.51 GHz

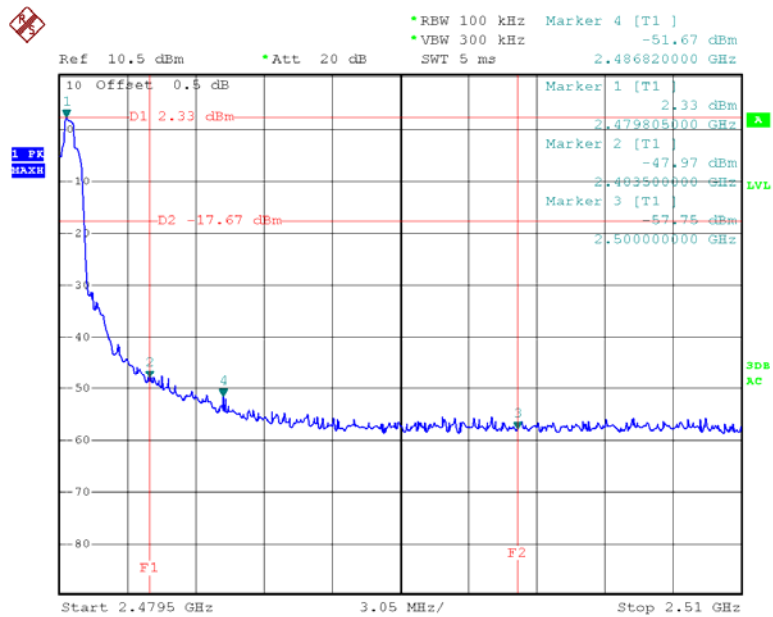
1 PK MAX

EDR (8DPSK): Band Edge-Left Side



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dBDR (8DPSK): Band Edge-Right Side



Date: 19.JUL.2012 13:55:06

DECLARATION LETTER

KINGTECH MOBILE LTD

7/F, Kin On Commercial Building 49-51 Jervois Street, Sheung Wan, HongKong

Tel: 00852-21527388

Fax: 00852-35719160

2012-7-20

Product Similarity Declaration

To Whom It May Concern,

We, KINGTECH MOBILE LTD. hereby declare that our GSM mobile phone, Model Number: ETERNITY,L238 are electrically identical with the INFINITY II that was certified by BACL. They are just different in model Number due to marketing purposes.

Please contact me if you have any question.

Jack Huang
Project Manager



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