



FCC PART 15.247 TEST REPORT

For

Collage Investments LLC.

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FCC ID: GAO-MAX40

Report Type: Original Report	Product Type: 3G smartphone
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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.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Collage Investments LLC.*'s product, model number: *MAX4.0 (FCC ID: GAO-MAX40)* or the "EUT" in this report was a *3G smartphone*, which was measured approximately: 120.65 mm (L) x 63.5 mm (W) x 11.4 mm (H), rated with input voltage: DC 3.7 V rechargeable Li-ion battery or DC5.0 V from adapter.

Adapter Information:

Model: ODL-28850100

Input: AC100-240V, 50/60Hz, max 0.2A

Output: DC 5.0V,1000mA

**All measurement and test data in this report was gathered from production sample serial number: 141225050 (Assigned by Shenzhen BACL). The EUT supplied by the applicant was received on 2014-12-25.*

Objective

This test report is prepared on behalf of *Collage Investments LLC.* 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, Part 15.247 DTS and Part 15B JBP submissions with FCC ID: GAO-MAX40

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

Measurement uncertainty with radiated emission is 5.91 dB for 30MHz-1GHz, and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

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.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

EUT Exercise Software

N/A

Special Accessories

No special accessory.

Equipment Modifications

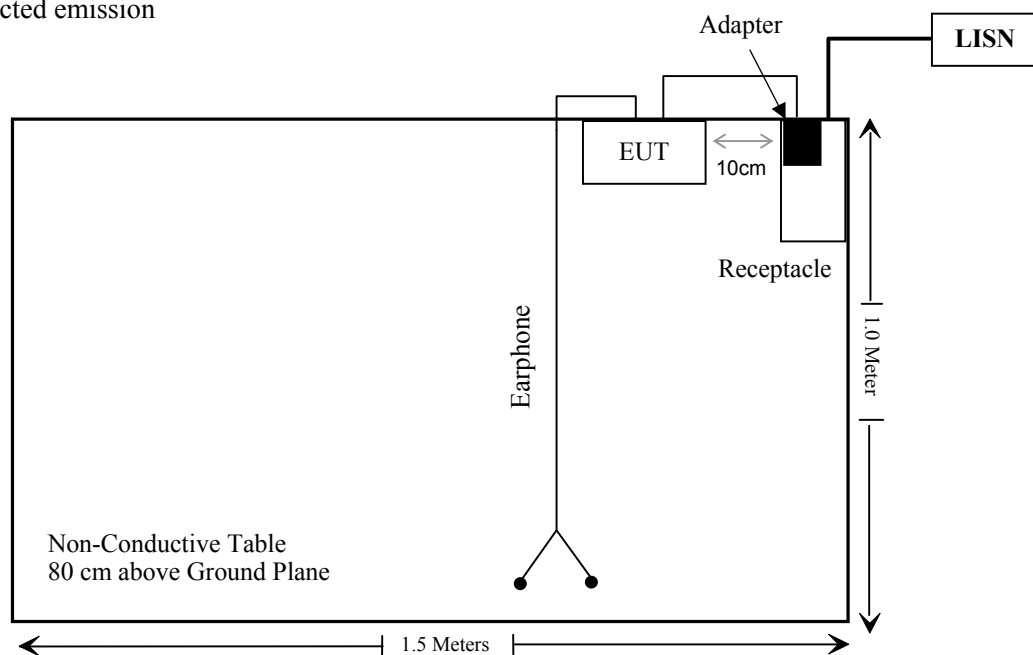
No modification was made to the EUT tested.

External I/O Cable

Cable Description	Length (m)	From Port	To
Un-shielding Detachable USB Cable	1.0	EUT	Adapter

Block Diagram of Test Setup

For conducted emission



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 FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

The SAR data please refer to the SAR report, report No.: RSH141225051-20.

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 one internal antenna arrangement for bluetooth, which was permanently attached and the antenna gain is -1 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

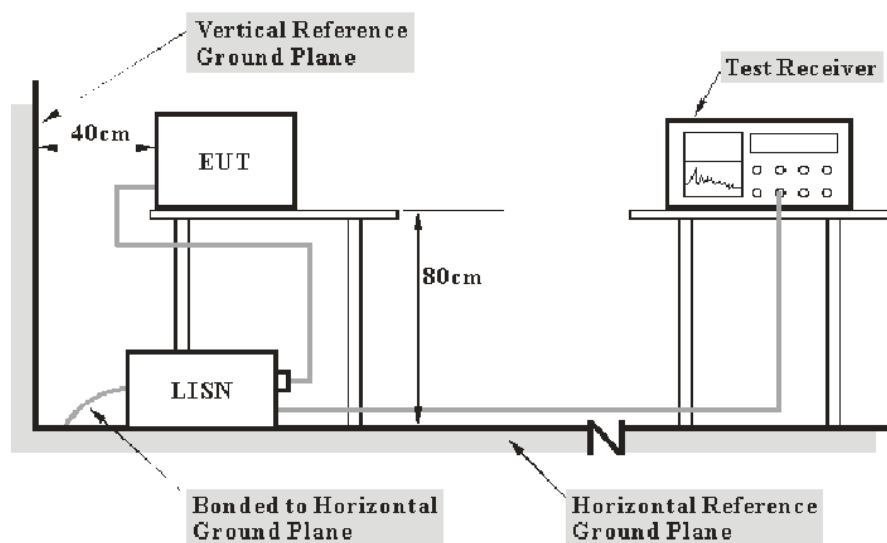
Measurement Uncertainty

Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between LISN and receiver, LISN voltage division factor, LISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report.

Port	Expanded Measurement uncertainty
AC Mains	3.26 dB (k=2, 95% level of confidence)
CAT 3	3.70 dB (k=2, 95% level of confidence)
CAT 5	3.86 dB (k=2, 95% level of confidence)
CAT 6	4.64 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 measurement procedure of EUT setup is according with ANSI C63.4-2009. The related limit was specified in FCC Part 15.207.

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:

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

Test Procedure

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

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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2014-06-17	2015-06-17
Rohde & Schwarz	LISN	ESH2-Z5	892107/021	2014-08-22	2015-08-22
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2014-10-15	2015-10-15
Rohde & Schwarz	CE Test software	EMC 32	V8.53	--	--

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

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 limit. The equation for margin calculation is as follows:

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

Test Results Summary

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

8.8 dB at 0.456750 MHz in the **Neutral** conducted mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(L_m)} \leq L_{\text{lim}} + U_{\text{cispr}}$$

In BACL, $U_{(L_m)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

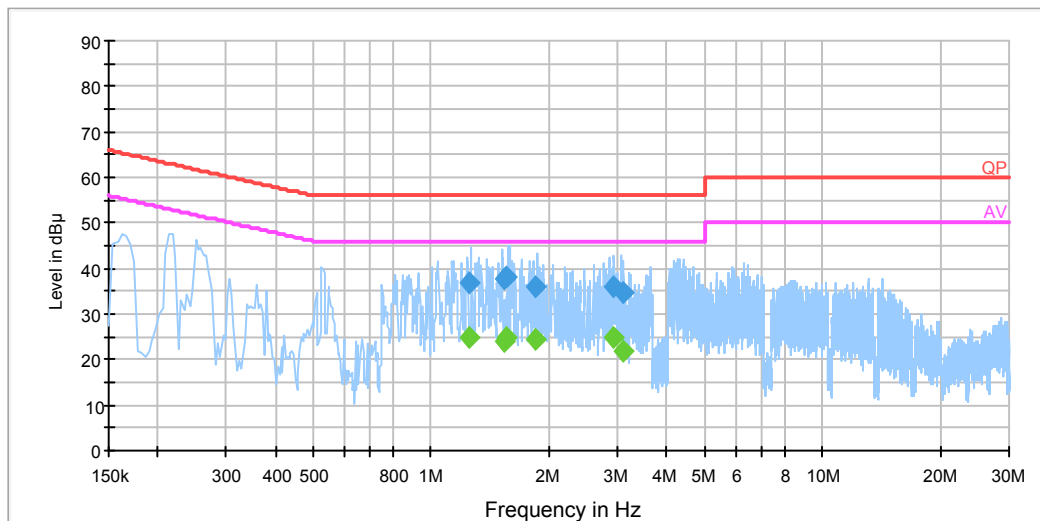
Test Data

Environmental Conditions

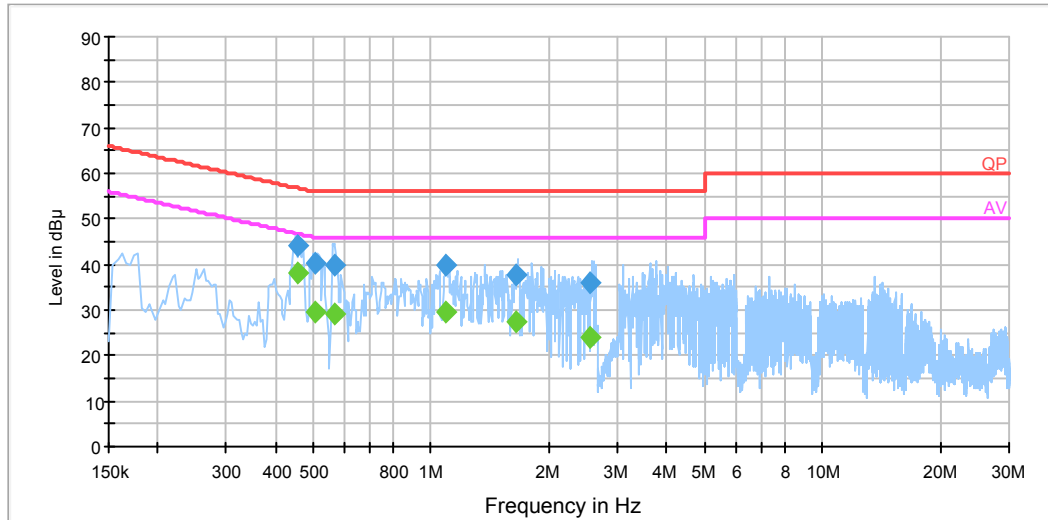
Temperature:	26
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2014-12-31.

EUT operation mode: Charging & Transmitting

AC 120V/60 Hz, Line**EMI Auto Test L**

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
1.251010	37.0	19.4	56.0	19.0	QP
1.251010	24.9	19.4	46.0	21.1	Ave.
1.531170	37.7	19.4	56.0	18.3	QP
1.531170	24.2	19.4	46.0	21.8	Ave.
1.554330	38.0	19.4	56.0	18.0	QP
1.554330	24.8	19.4	46.0	21.2	Ave.
1.850010	36.2	19.4	56.0	19.8	QP
1.850010	24.3	19.4	46.0	21.7	Ave.
2.917930	35.9	19.4	56.0	20.1	QP
2.917930	24.8	19.4	46.0	21.2	Ave.
3.092070	34.6	19.4	56.0	21.4	QP
3.092070	21.8	19.4	46.0	24.2	Ave.

AC 120V/60 Hz, Neutral**EMI Auto Test N**

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.456750	44.1	19.2	56.8	12.7	QP
0.456750	38.0	19.2	46.8	8.8	Ave.
0.506290	40.3	19.2	56.0	15.7	QP
0.506290	29.8	19.2	46.0	16.2	Ave.
0.565630	40.0	19.3	56.0	16.0	QP
0.565630	29.3	19.3	46.0	16.7	Ave.
1.085590	39.8	19.4	56.0	16.2	QP
1.085590	29.7	19.4	46.0	16.3	Ave.
1.657010	37.7	19.4	56.0	18.3	QP
1.657010	27.5	19.4	46.0	18.5	Ave.
2.563090	36.1	19.4	56.0	19.9	QP
2.563090	24.0	19.4	46.0	22.0	Ave.

Note:

- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

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

Applicable Standard

FCC §15.205; §15.209; §15.247(d)

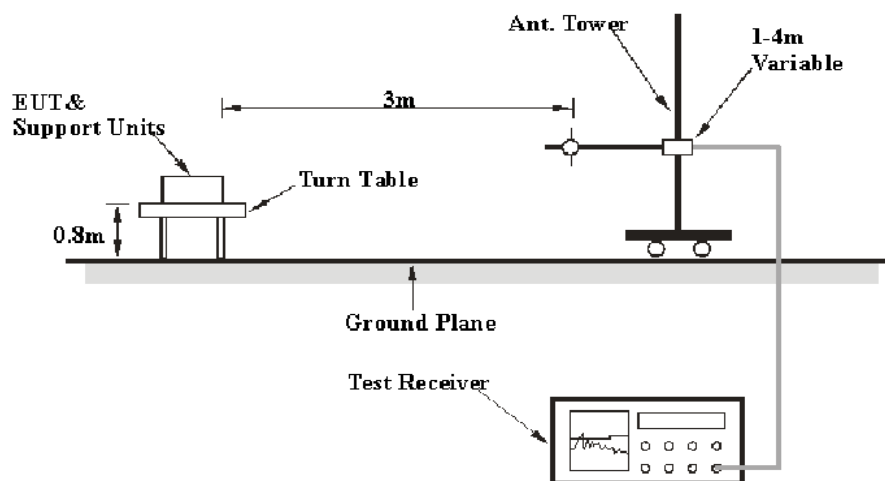
Measurement Uncertainty

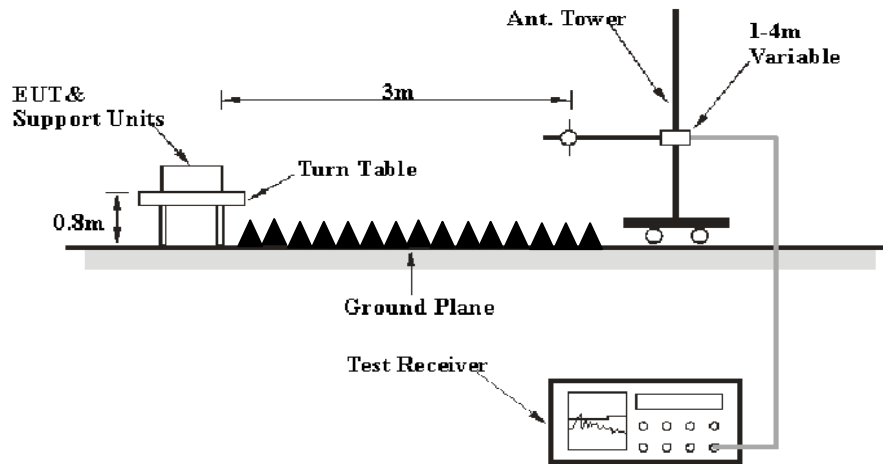
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency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

Based on CISPR 16-4-2:2011, the expanded combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) is 5.91 dB for 30MHz-1GHz, and 4.92 dB for above 1GHz. And this uncertainty will not be taken into consideration for the test data recorded in the report.

EUT Setup

Below 1 GHz:



Above 1GHz:

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 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:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	PK
	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.

All final 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 7dB means the emission is 7dB below the 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	HP8447E	1937A01046	2014-05-06	2015-05-06
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2014-11-03	2015-11-03
Sunol Sciences	Broadband Antenna	JB3	A111513	2014-06-18	2017-06-17
Mini	Amplifier	ZVA-183-S+	5969001149	2014-04-23	2015-04-23
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2015-02-10
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2014-11-12	2015-11-12
the electro-Mechanics Co.	Horn Antenna	3116	9510-2270	2013-10-14	2016-10-13
TDK	Chamber	Chamber A	2#	2012-10-15	2015-10-15
TDK	Chamber	Chamber B	1#	2014-07-22	2015-07-22
DUCOMMUN	Pre-amplifier	ALN-22093530-01	991373-01	2014-08-03	2015-08-03
R&S	Auto test Software	EMC32	V9.10	--	--

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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.

4.50 dB at 9920.00 MHz in the Horizontal polarization for High Channel

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(L_m)} \leq L_{lim} + U_{cispr}$$

In BACL, $U_{(L_m)}$ is less than $+ U_{cispr}$, if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data**Environmental Conditions**

Temperature:	26
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2014-12-31.

EUT operation mode: Transmitting & Charging

30 MHz -25 GHz: (Scan with GFSK, $\pi/4$ -DQPSK, 8-DPSK mode, the worst case is BDR Mode (GFSK))

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2402 MHz)									
120.16	45.23	QP	102	1.2	H	-13.3	31.93	43.5	11.57
2402.00	89.42	PK	273	1.2	H	4.27	93.69	/	/
2402.00	77.44	Ave.	273	1.2	H	4.27	81.71	/	/
2402.00	85.00	PK	200	2.2	V	4.17	89.17	/	/
2402.00	73.00	Ave.	200	2.2	V	4.17	77.17	/	/
2369.36	35.55	PK	296	2.0	H	4.27	39.82	74	34.18
2369.36	21.85	Ave.	296	2.0	H	4.27	26.12	54	27.88
2486.13	35.30	PK	289	2.2	H	7.99	43.29	74	30.71
2486.13	21.16	Ave.	289	2.2	H	7.99	29.15	54	24.85
2828.71	34.88	PK	325	2.4	H	8.41	43.29	74	30.71
2828.71	21.03	Ave.	325	2.4	H	8.41	29.44	54	24.56
4804.00	36.41	PK	82	2.0	V	20.51	56.92	74	17.08
4804.00	22.78	Ave.	82	2.0	V	20.51	43.29	54	10.71
7206.00	35.75	PK	167	2.4	V	22.28	58.03	74	15.97
7206.00	21.41	Ave.	167	2.4	V	22.28	43.69	54	10.31
9608.00	35.24	PK	162	1.4	H	27.80	63.04	74	10.96
9608.00	20.87	Ave.	162	1.4	H	27.80	48.67	54	5.33

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Middle Channel (2441 MHz)									
120.16	44.80	QP	135	1.1	H	-13.3	31.50	43.5	12.00
2441.00	88.09	PK	357	1.8	H	4.27	92.36	/	/
2441.00	76.18	Ave.	357	1.8	H	4.27	80.45	/	/
2441.00	85.75	PK	342	2.1	V	4.17	89.92	/	/
2441.00	73.79	Ave.	342	2.1	V	4.17	77.96	/	/
2329.43	37.09	PK	299	1.7	H	3.93	41.02	74	32.98
2329.43	22.44	Ave.	299	1.7	H	3.93	26.37	54	27.63
2495.84	35.88	PK	232	1.4	H	7.99	43.87	74	30.13
2495.84	21.00	Ave.	232	1.4	H	7.99	28.99	54	25.01
2804.94	34.00	PK	24	1.2	H	8.41	42.41	74	31.59
2804.94	21.54	Ave.	24	1.2	H	8.41	29.95	54	24.05
4882.00	35.79	PK	237	1.9	H	19.71	55.50	74	18.50
4882.00	22.23	Ave.	237	1.9	H	19.71	41.94	54	12.06
7323.00	34.89	PK	238	1.5	V	22.60	57.49	74	16.51
7323.00	20.83	Ave.	238	1.5	V	22.60	43.43	54	10.57
9764.00	34.71	PK	280	1.1	H	28.66	63.37	74	10.63
9764.00	20.56	Ave.	280	1.1	H	28.66	49.22	54	4.78
High Channel (2480 MHz)									
120.16	44.75	QP	178	1.1	H	-13.3	31.45	43.5	12.05
2480.00	87.84	PK	231	1.9	H	7.99	95.83	/	/
2480.00	75.51	Ave.	231	1.9	H	7.99	83.50	/	/
2480.00	84.93	PK	353	2.1	V	7.59	92.52	/	/
2480.00	72.99	Ave.	353	2.1	V	7.59	80.58	/	/
2382.99	35.67	PK	216	1.1	H	4.27	39.94	74	34.06
2382.99	21.75	Ave.	216	1.1	H	4.27	26.02	54	27.98
2483.50	41.09	PK	126	2.2	H	7.99	49.08	74	24.92
2483.50	26.54	Ave.	126	2.2	H	7.99	34.53	54	19.47
2728.84	35.60	PK	350	2.1	H	8.31	43.91	74	30.09
2728.84	20.97	Ave.	350	2.1	H	8.31	29.28	54	24.72
4960.00	36.08	PK	342	1.7	V	22.01	58.09	74	15.91
4960.00	21.70	Ave.	342	1.7	V	22.01	43.71	54	10.29
7440.00	34.73	PK	79	2.1	H	21.54	56.27	74	17.73
7440.00	21.79	Ave.	79	2.1	H	21.54	43.33	54	10.67
9920.00	34.97	PK	172	1.3	H	28.66	63.63	74	10.37
9920.00	20.84	Ave.	172	1.3	H	28.66	49.50	54	4.50

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

Margin = Limit - Corrected. Amplitude

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, maxhold the channel.
2. Set the adjacent channel of the EUT and 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	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	25
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2015-01-04

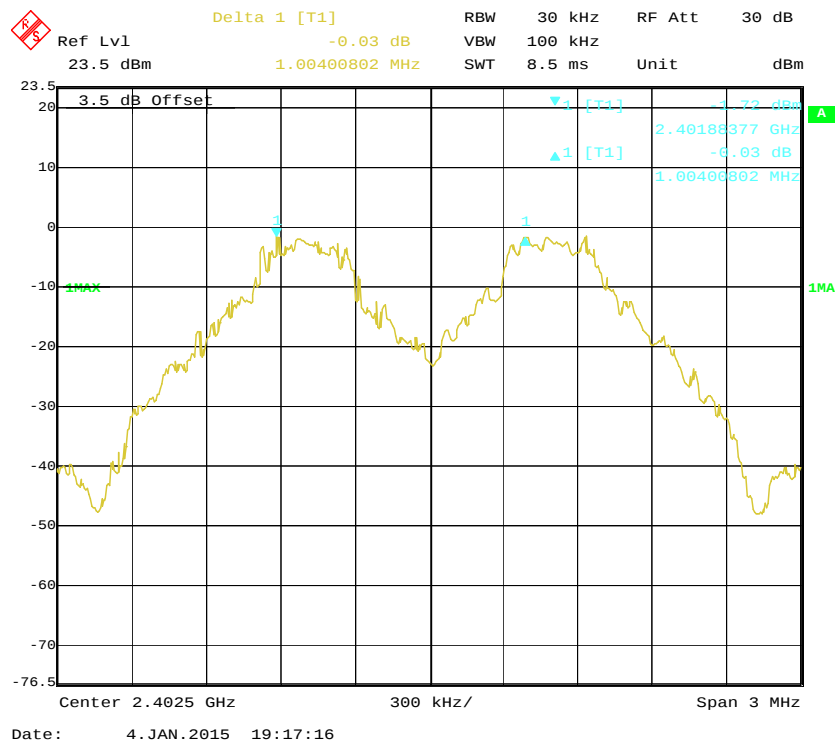
EUT operation mode: Transmitting

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

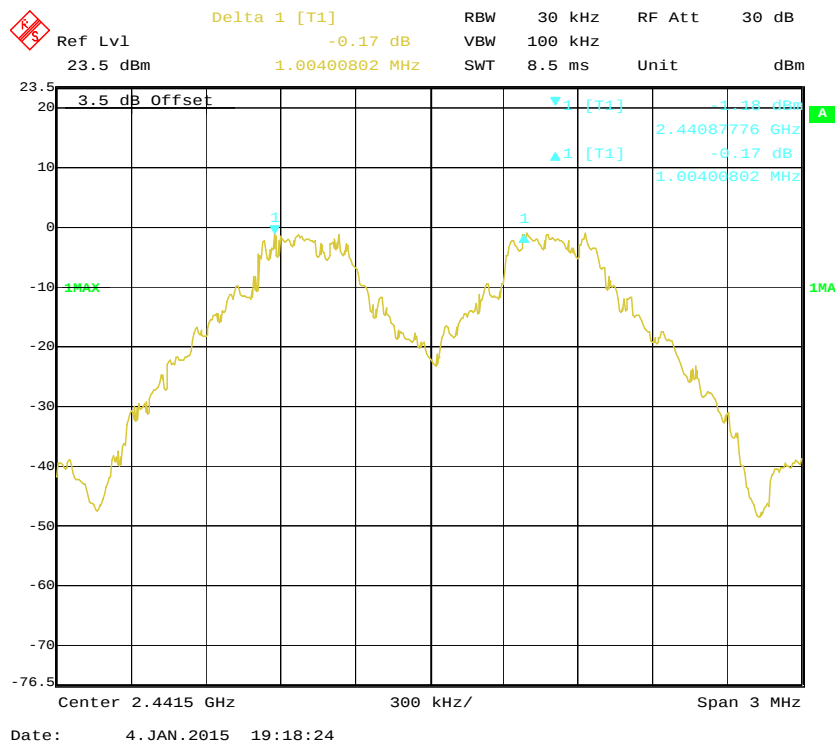
Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	$\geq$ Limit (MHz)	Result
BDR (GFSK)	Low	2402	1.004	0.636	Pass
	Adjacent	2403			
	Middle	2441	1.004	0.636	Pass
	Adjacent	2442			
	High	2480	1.004	0.633	Pass
	Adjacent	2479			
EDR ($\pi/4$-DQPSK)	Low	2402	1.004	0.863	Pass
	Adjacent	2403			
	Middle	2441	1.004	0.863	Pass
	Adjacent	2442			
	High	2480	1.004	0.820	Pass
	Adjacent	2479			
EDR (8DPSK)	Low	2402	1.004	0.860	Pass
	Adjacent	2403			
	Middle	2441	1.004	0.860	Pass
	Adjacent	2442			
	High	2480	1.004	0.860	Pass
	Adjacent	2479			

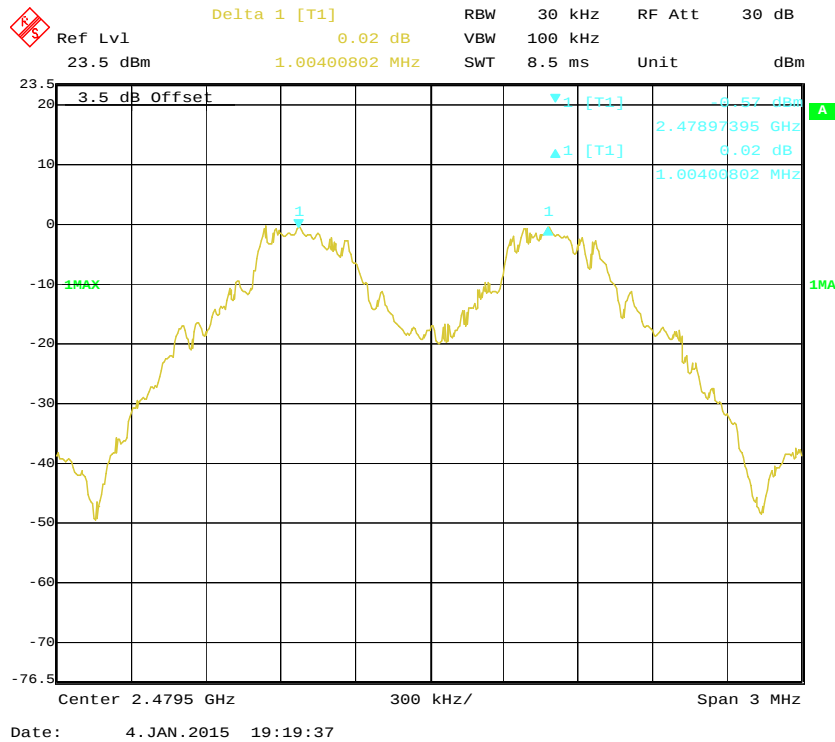
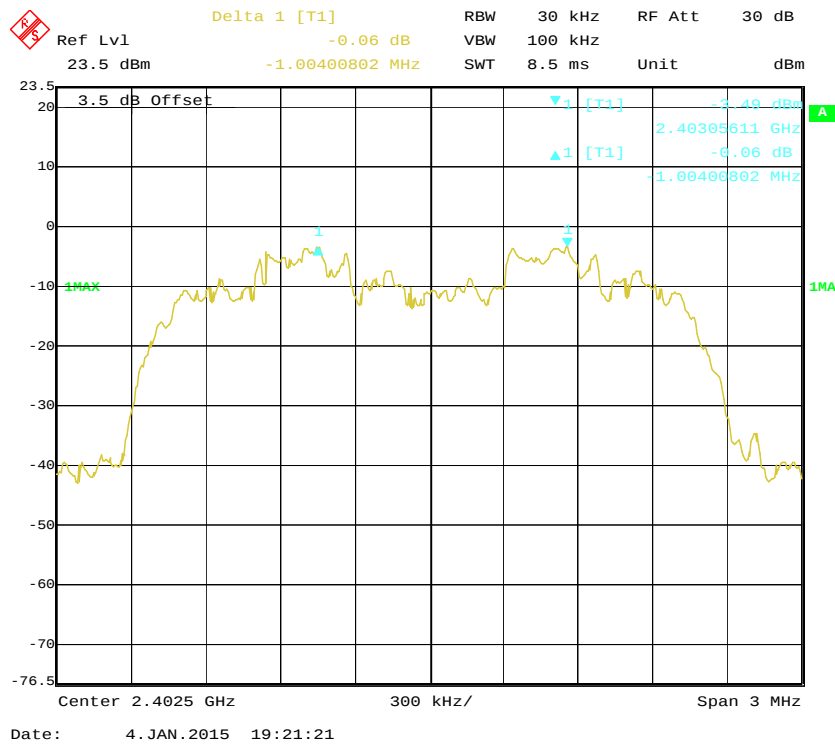
Note: Limit = 20 dB bandwidth *2/3

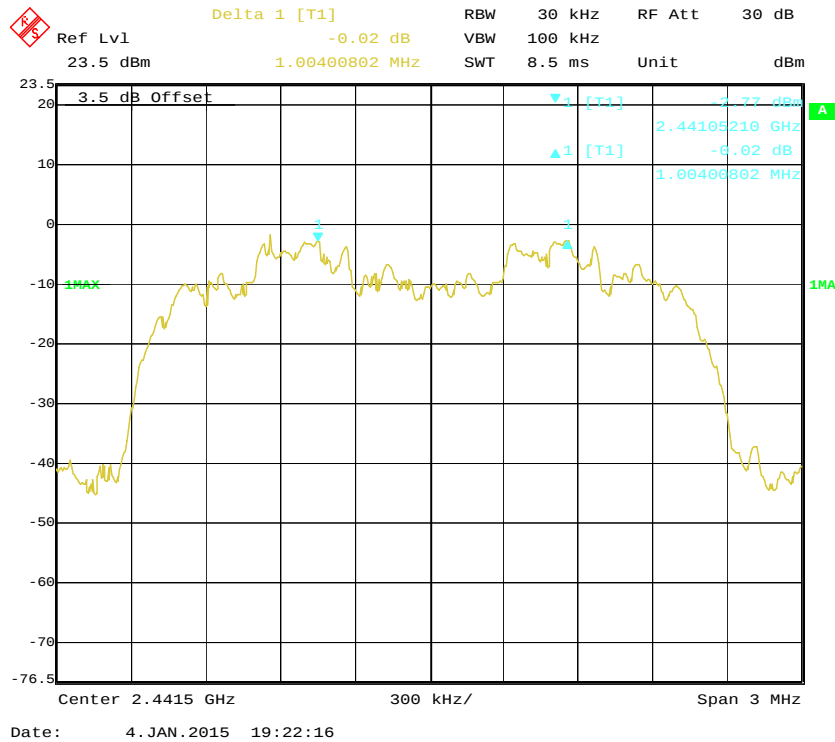
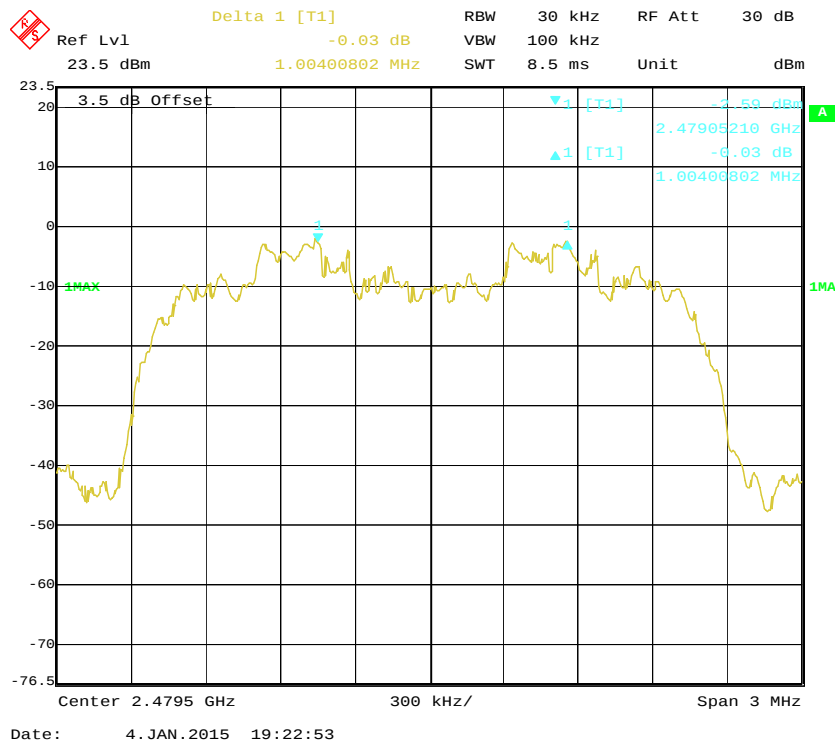
BDR (GFSK): Low Channel



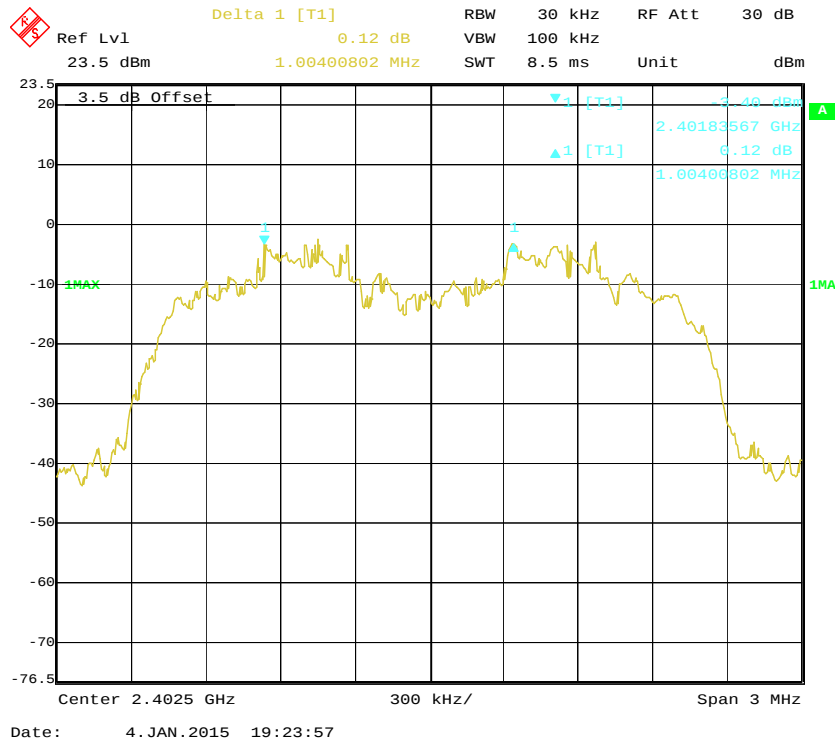
BDR (GFSK): Middle Channel



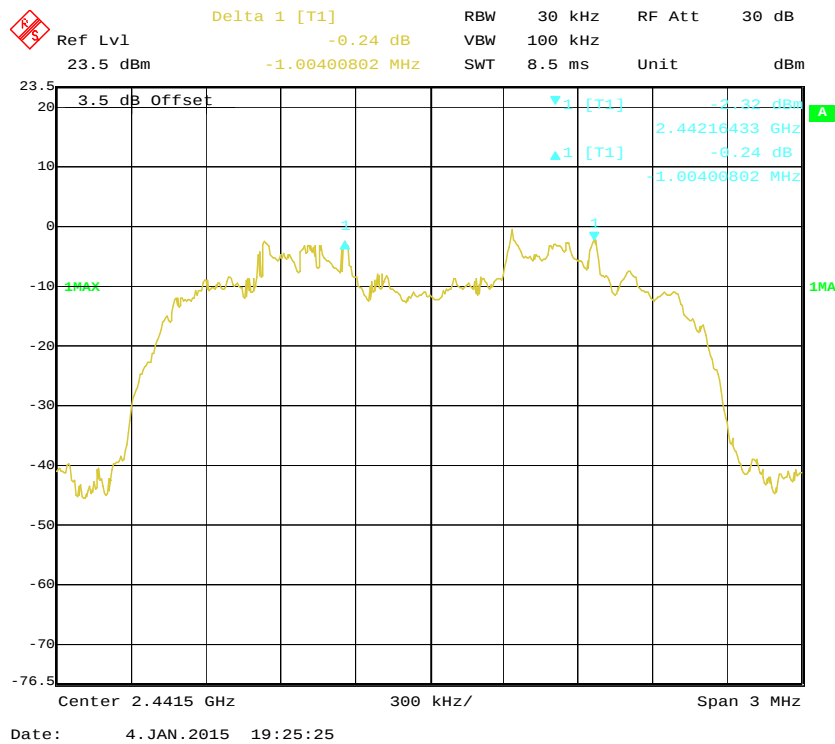
BDR (GFSK): High Channel**EDR ($\pi/4$ -DQPSK): Low Channel**

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

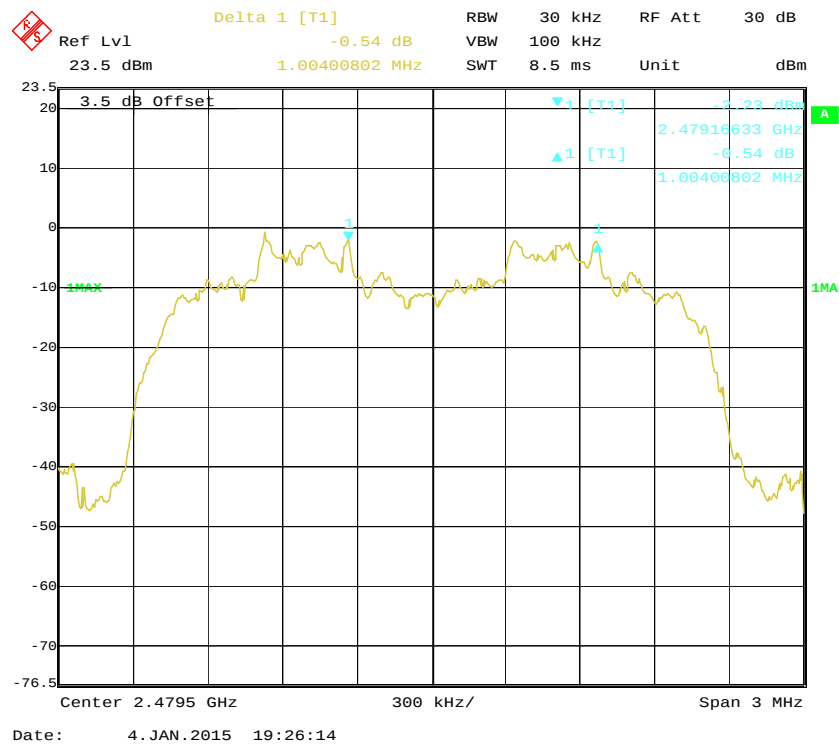
EDR (8DPSK): Low Channel



EDR (8DPSK): Middle Channel



EDR (8DPSK): High Channel



FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH**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	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

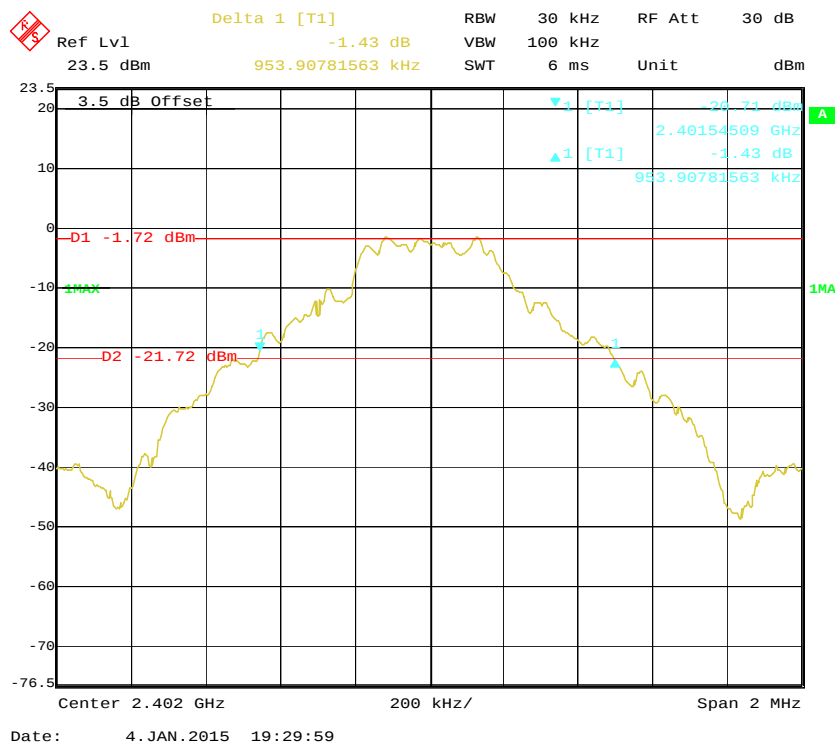
Temperature:	25
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2015-01-05

EUT operation mode: Transmitting

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

Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
BDR (GFSK)	Low	2402	0.954
	Middle	2441	0.954
	High	2480	0.950
EDR ($\pi/4$-DQPSK)	Low	2402	1.295
	Middle	2441	1.295
	High	2480	1.283
EDR (8DPSK)	Low	2402	1.279
	Middle	2441	1.279
	High	2480	1.279

BDR (GFSK): Low Channel

Delta 1 [T1] RBW 30 kHz RF Att 30 dB
 Ref Lvl -1.01 dB VBW 100 kHz
 23.5 dBm 953.90781563 kHz SWT 6 ms Unit dBm

3.5 dB Offset
 2.44054509 GHz
 -1.01 dB
 953.90781563 kHz

D1 -1.28 dBm
 D2 -21.28 dBm

Center 2.441 GHz
 200 kHz/
 Span 2 MHz

Date: 4. JAN. 2015 19:31:02

Delta 1 [T1]
 Ref Lvl -1.35 dB
 23.5 dBm 949.89979960 kHz
 RBW 30 kHz RF Att 30 dB
 VSW 100 kHz
 SWT 6 ms Unit dBm

3.5 dB Offset

20 kHz

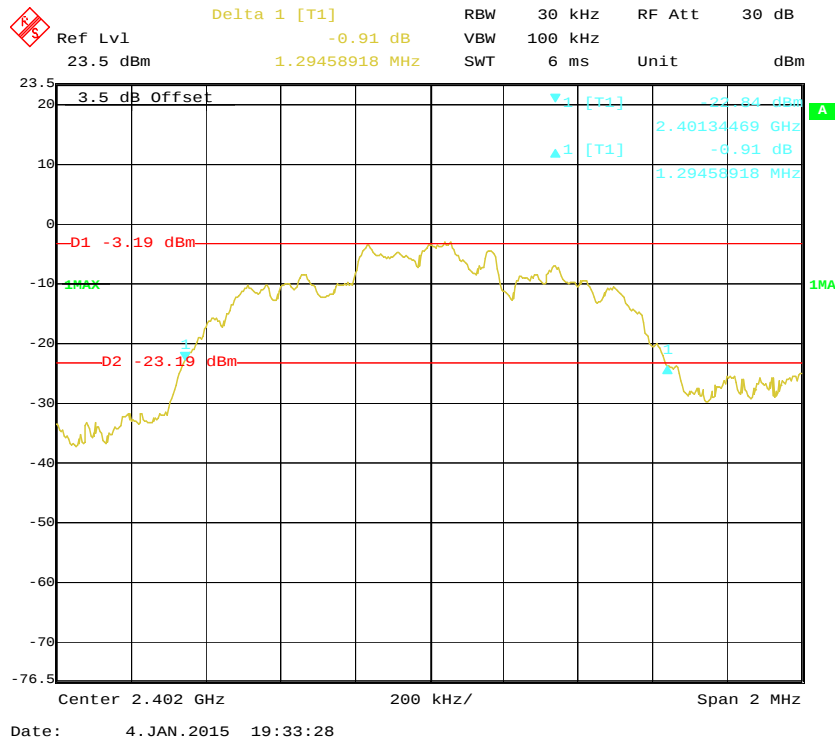
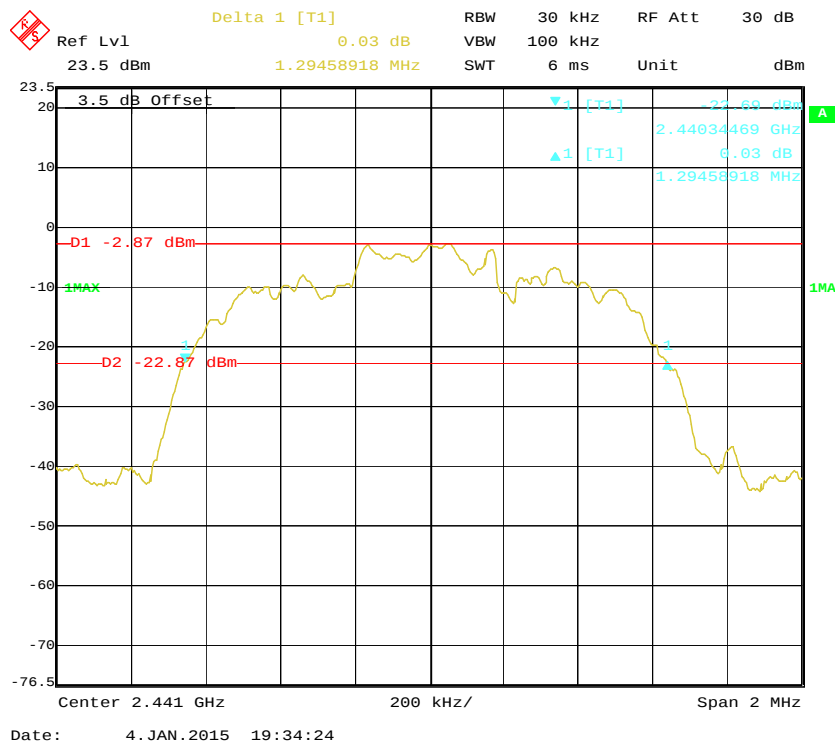
2.47954509 GHz

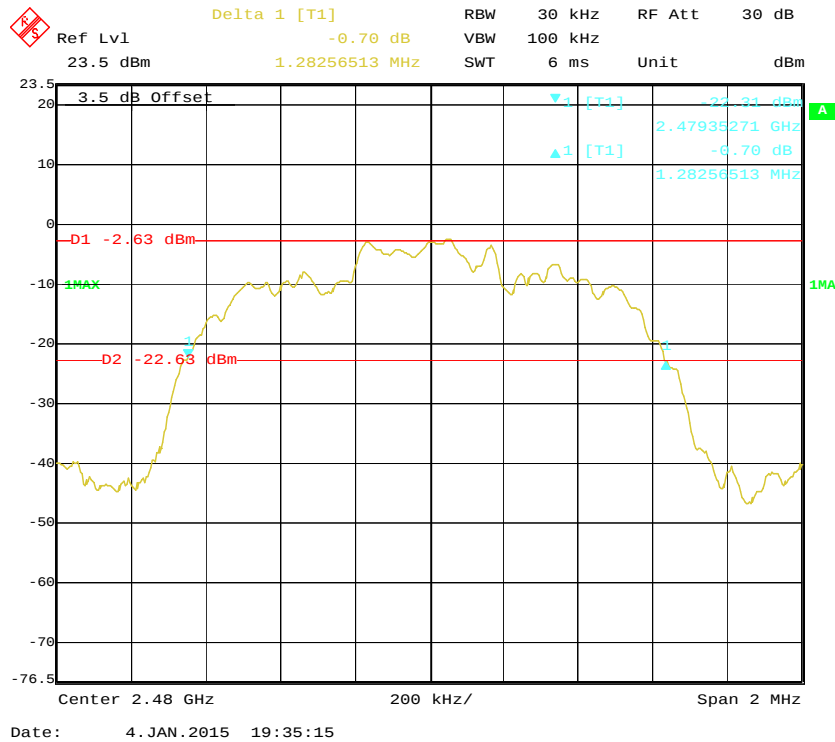
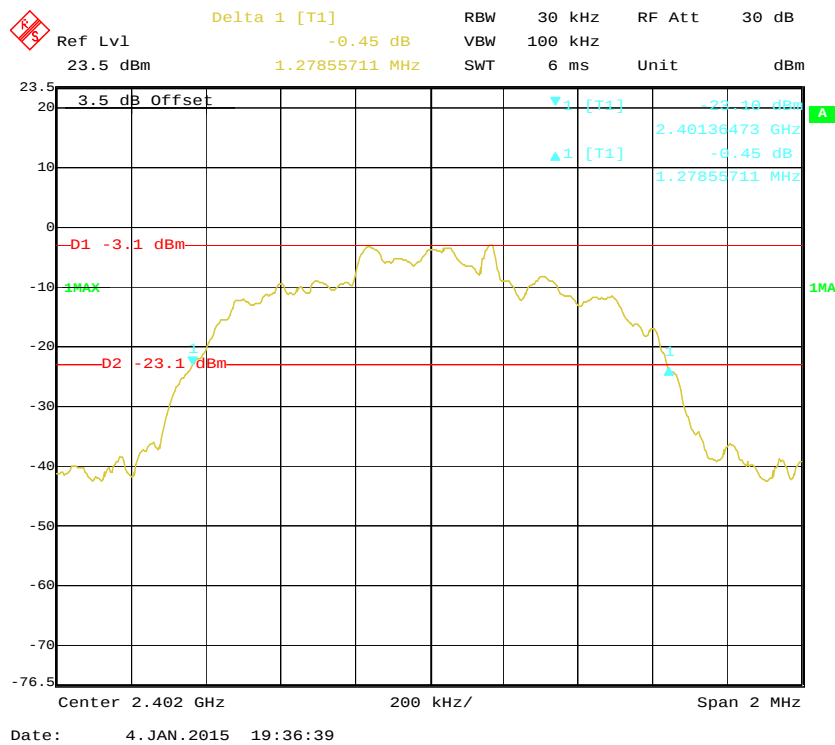
20 kHz/

Span 2 MHz

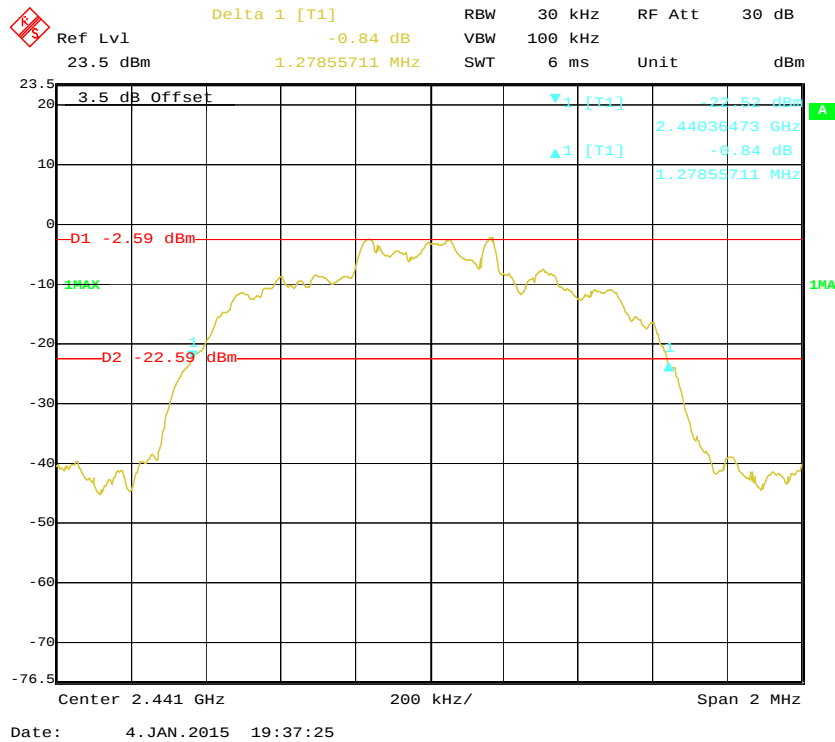
Center 2.48 GHz

Date: 4. JAN. 2015 19:32:24

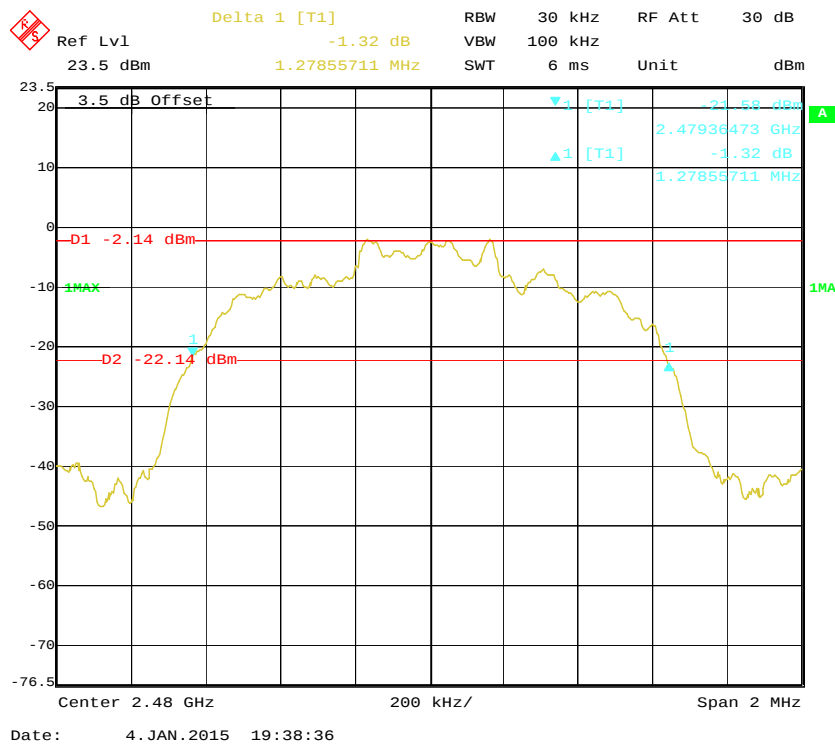
EDR ($\pi/4$ -DQPSK): Low ChannelEDR ($\pi/4$ -DQPSK): Middle Channel

EDR ($\pi/4$ -DQPSK): High Channel**EDR (8DPSK): Low Channel**

EDR (8DPSK): Middle Channel



EDR (8DPSK): High Channel



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	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	25
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

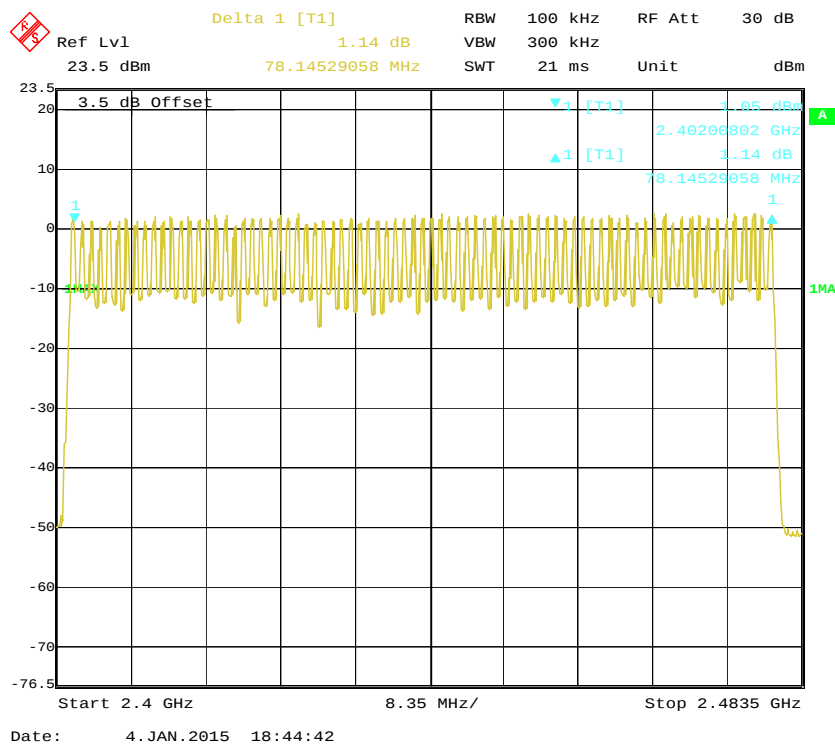
The testing was performed by Haiguo Li on 2015-01-04

EUT operation mode: Transmitting

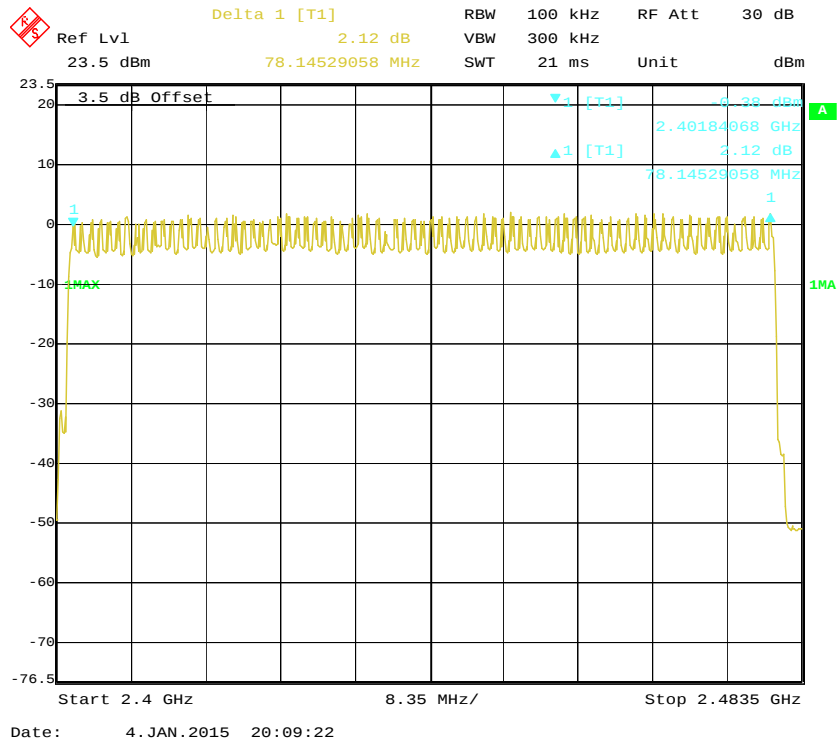
Test Result: Compliance. Please refer to following tables and plots

Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
BDR (GFSK)	2400-2483.5	79	≥ 15
EDR ($\pi/4$ -DQPSK)	2400-2483.5	79	≥ 15
EDR (8DPSK)	2400-2483.5	79	≥ 15

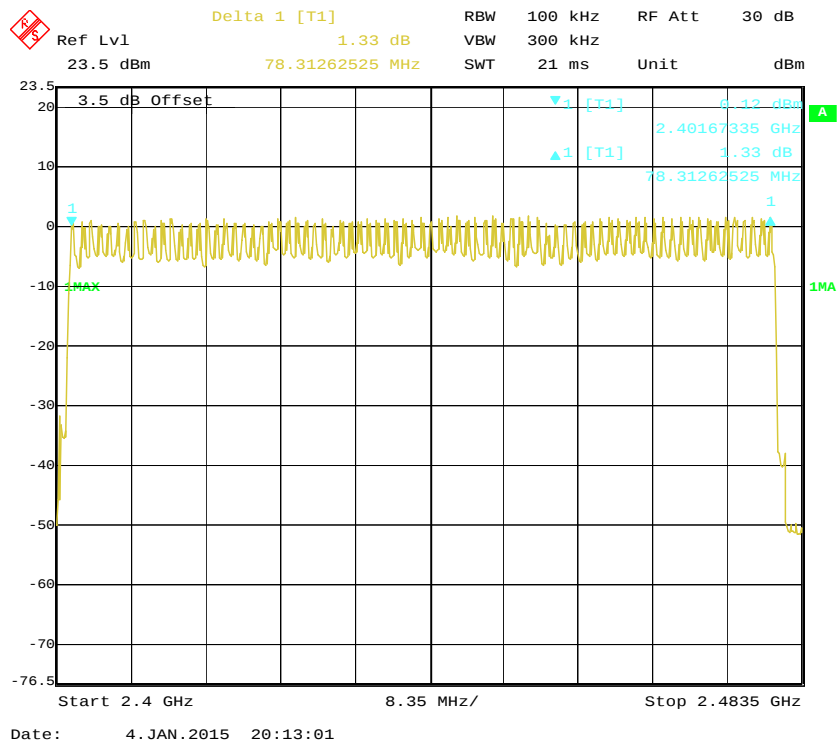
BDR (GFSK): Number of Hopping Channels



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



EDR (8DPSK): Number of Hopping Channels



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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	25
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

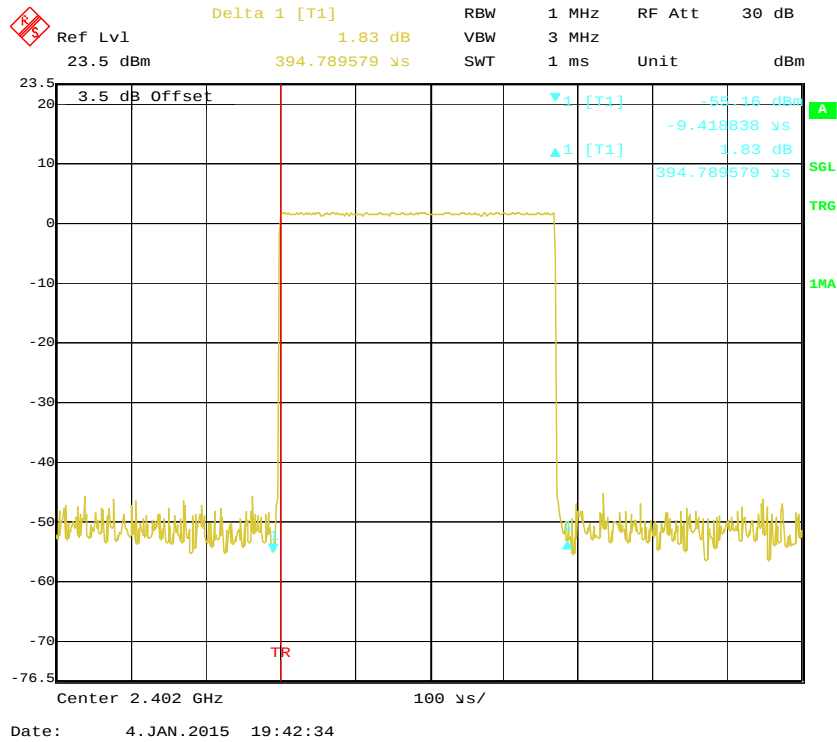
The testing was performed by Haiguo Li on 2015-01-04

EUT operation mode: Transmitting

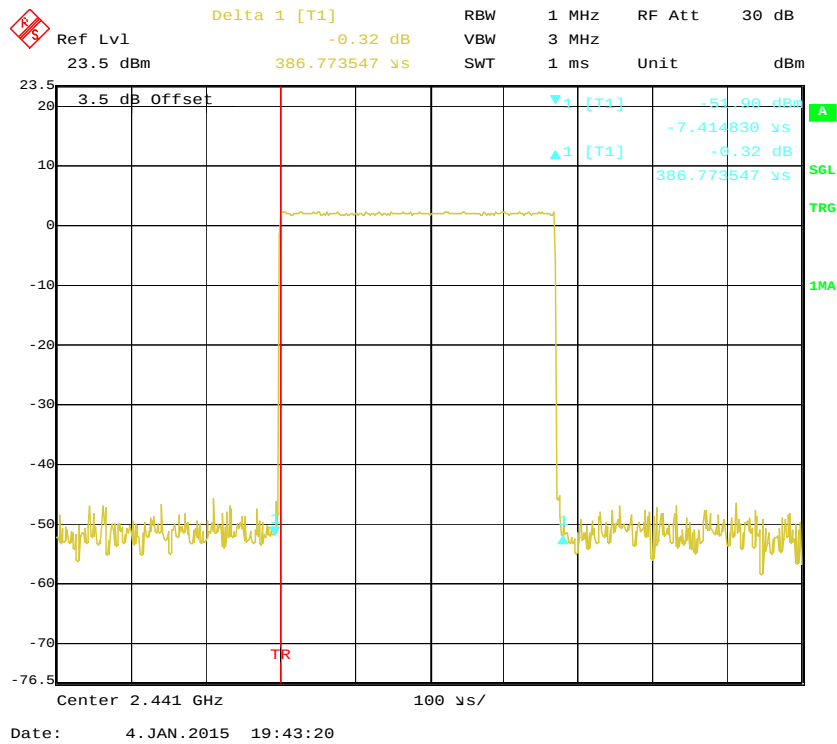
Test Result: Compliance. Please refer to following tables and plots

Mode		Channel	Pulse Width (ms)	Dwell Time (S)	Limit (S)	Result
BDR (GFSK)	DH 1	Low	0.395	0.126	0.4	Pass
		Middle	0.387	0.124	0.4	Pass
		High	0.387	0.124	0.4	Pass
		Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH 3	Low	1.659	0.265	0.4	Pass
		Middle	1.665	0.266	0.4	Pass
		High	1.665	0.266	0.4	Pass
		Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH 5	Low	2.956	0.315	0.4	Pass
		Middle	2.926	0.312	0.4	Pass
		High	2.946	0.314	0.4	Pass
		Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR ($\pi/4$ -DQPSK)	2DH 1	Low	0.395	0.126	0.4	Pass
		Middle	0.393	0.126	0.4	Pass
		High	0.399	0.128	0.4	Pass
		Note: 2DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	2DH 3	Low	1.659	0.265	0.4	Pass
		Middle	1.677	0.268	0.4	Pass
		High	1.665	0.266	0.4	Pass
		Note: 2DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	2DH 5	Low	2.916	0.311	0.4	Pass
		Middle	2.936	0.313	0.4	Pass
		High	2.946	0.314	0.4	Pass
		Note: 2DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR (8DPSK)	3DH 1	Low	0.403	0.129	0.4	Pass
		Middle	0.395	0.126	0.4	Pass
		High	0.403	0.129	0.4	Pass
		Note: 3DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	3DH 3	Low	1.665	0.266	0.4	Pass
		Middle	1.659	0.265	0.4	Pass
		High	1.655	0.265	0.4	Pass
		Note: 3DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	3DH 5	Low	2.936	0.313	0.4	Pass
		Middle	2.926	0.312	0.4	Pass
		High	2.916	0.311	0.4	Pass
		Note: 3DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				

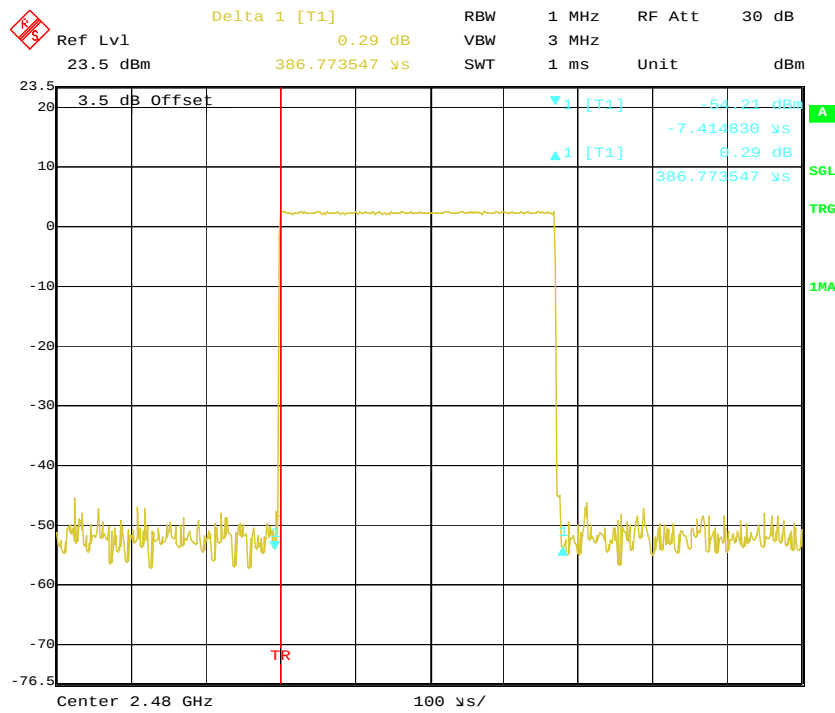
BDR (GFSK): Pulse time, Low Channel, DH1



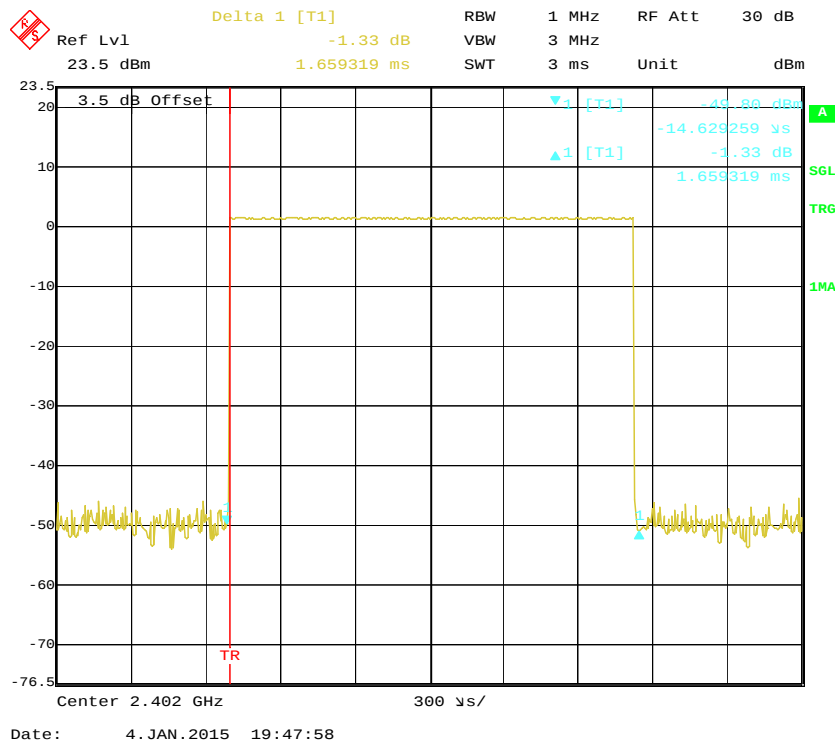
Pulse time, Middle Channel, DH1



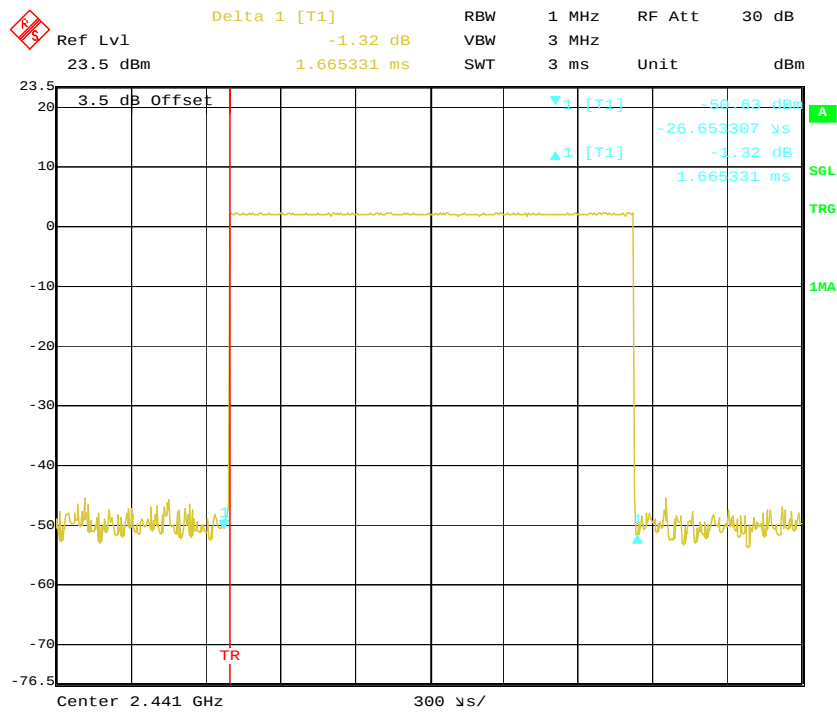
Pulse time, High Channel, DH1



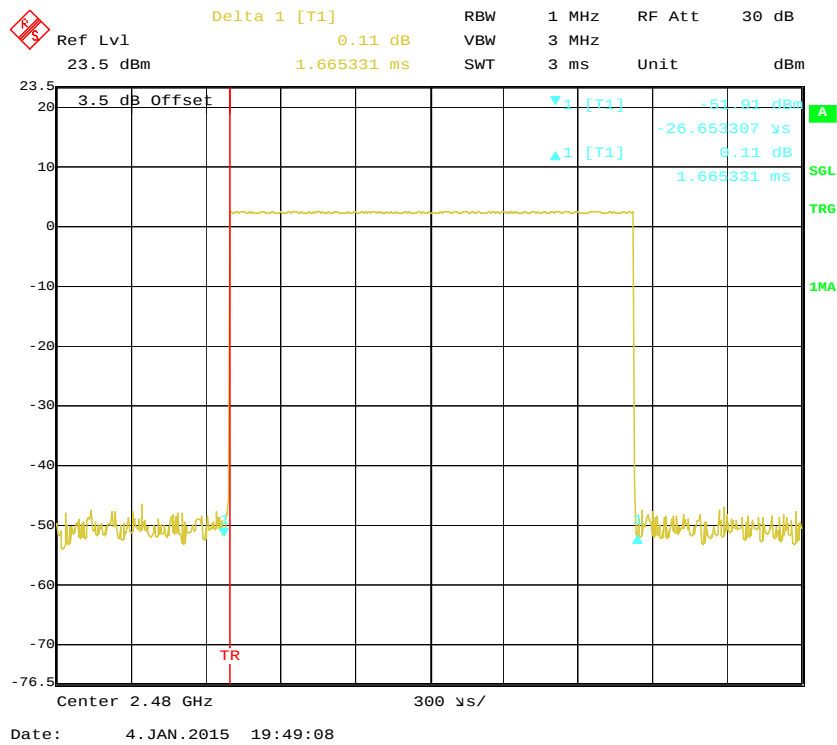
Pulse time, Low Channel, DH3



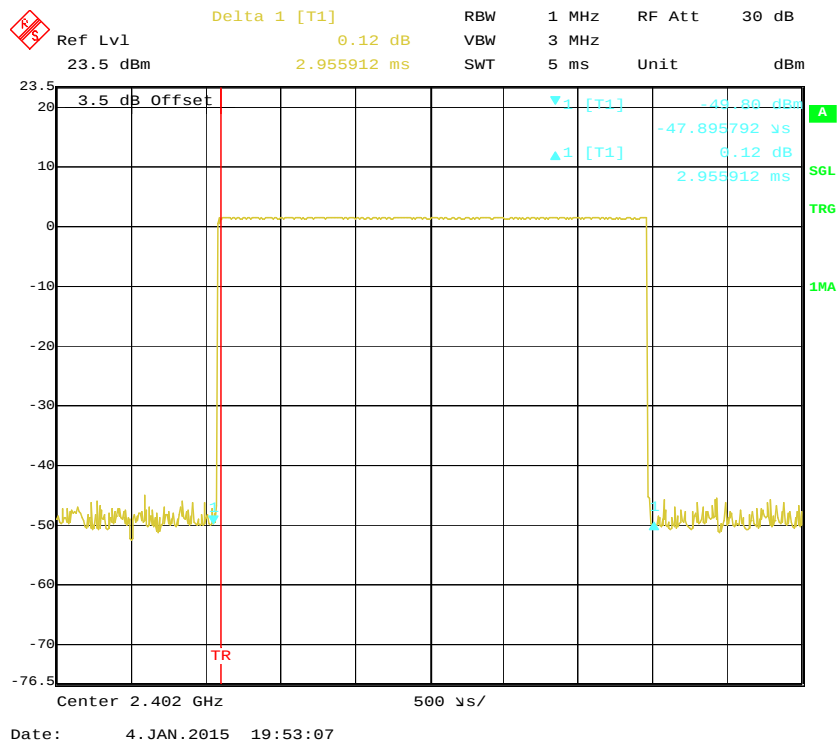
Pulse time, Middle Channel, DH3



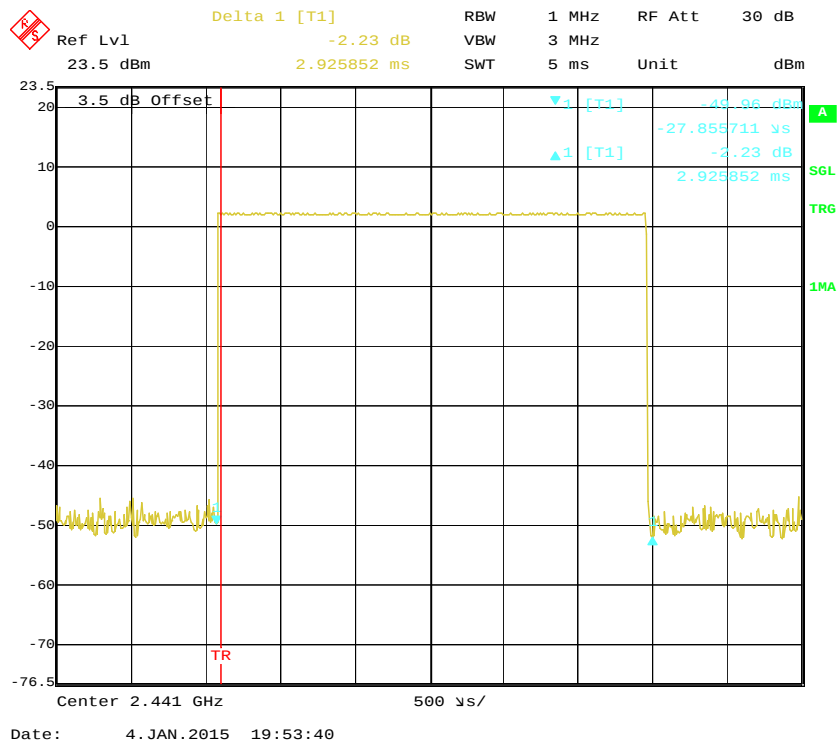
Pulse time, High Channel, DH3



Pulse time, Low Channel, DH5



Pulse time, Middle Channel, DH5



Ref Lvl: 23.5 dBm
Delta 1 [T1]: -0.94 dB
RBW: 1 MHz
VBW: 3 MHz
SWT: 5 ms
RF Att: 30 dB
Unit: dBm

3.5 dB Offset
2.945892 ms
-47.895792 dBm
-50 dBm
Center 2.48 GHz
500 μ s/

Date: 4. JAN. 2015 19:54:06

Delta 1 [T1] RBW 1 MHz RF Att 30 dB
 Ref Lvl -2.79 dB VBW 3 MHz
 23.5 dBm 394.789579 μ s SWT 1 ms Unit dBm

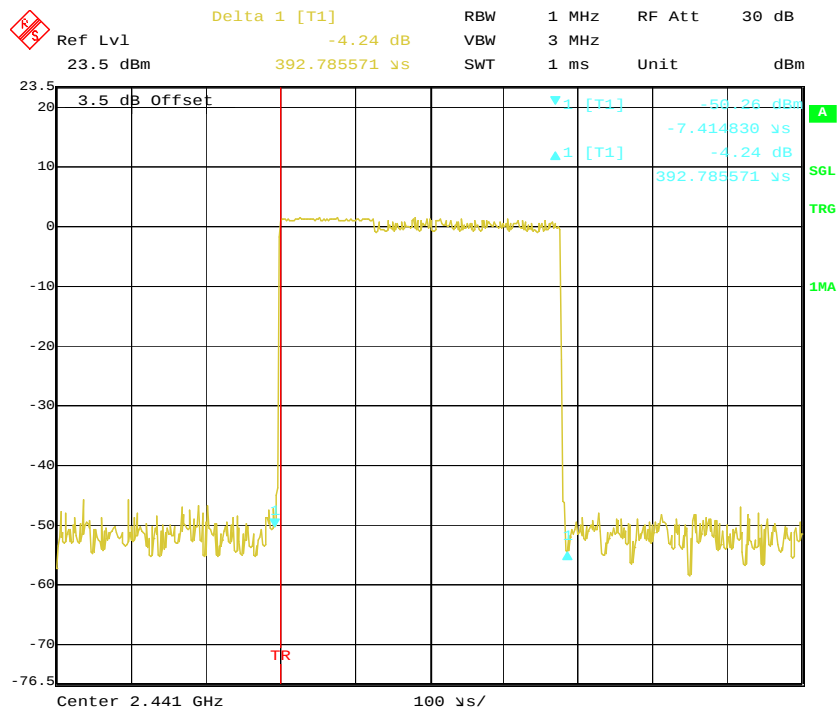
3.5 dB Offset

Measurement	Value
[T1]	-53.88 dBm
[T1]	-9.418838 μ s
[T1]	-2.79 dB
[T1]	394.789579 μ s

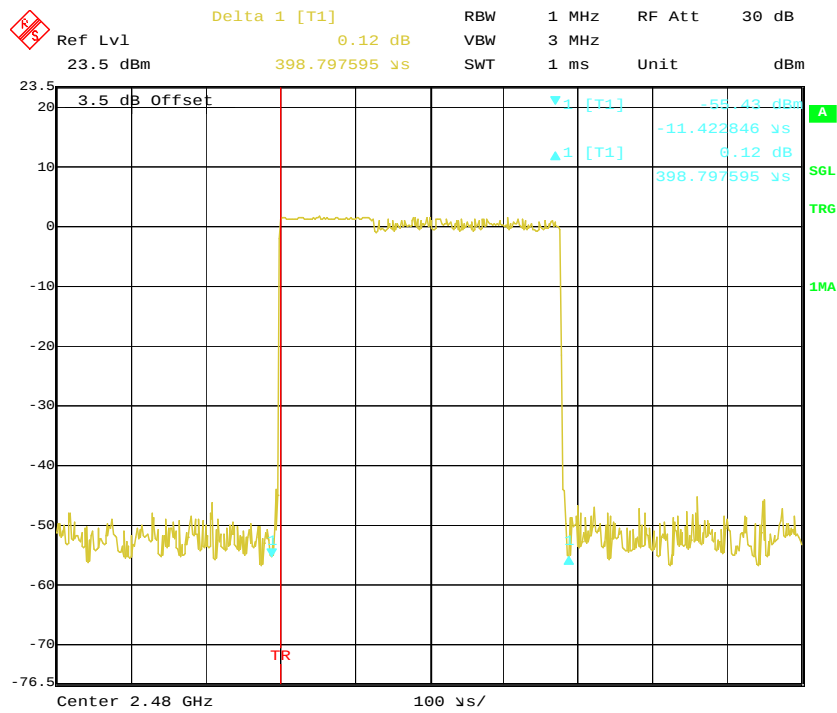
Center 2.402 GHz 100 μ s/

Date: 4. JAN. 2015 19:44:34

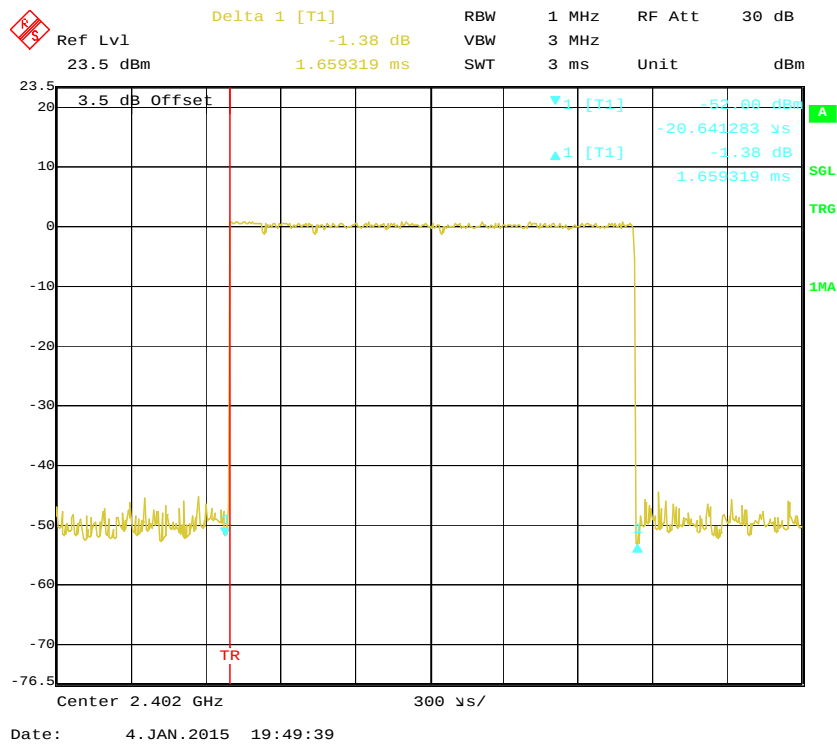
Pulse time, Middle Channel, DH1



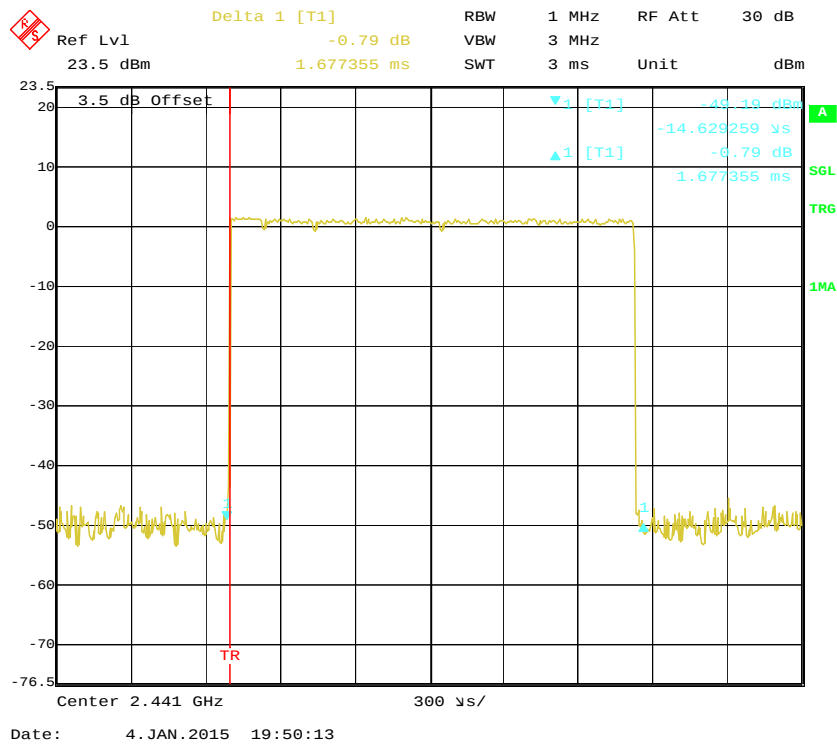
Pulse time, High Channel, DH1



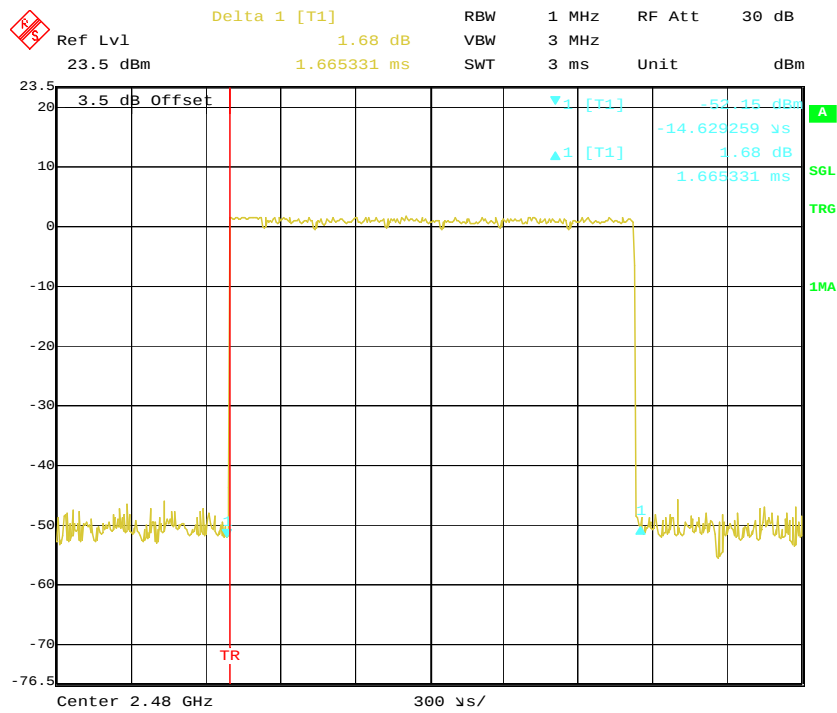
Pulse time, Low Channel, DH3



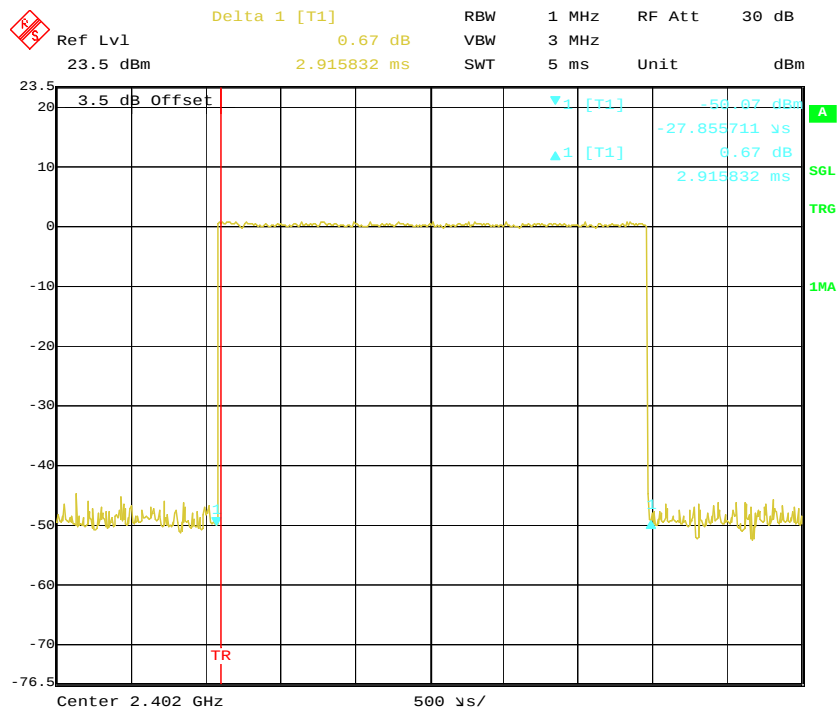
Pulse time, Middle Channel, DH3



Pulse time, High Channel, DH3



Pulse time, Low Channel, DH5



Delta 1 [T1] 0.23 dB
 Ref Lvl 23.5 dBm
 RBW 1 MHz
 VBW 3 MHz
 SWT 5 ms
 RF Att 30 dB
 Unit dBm
 3.5 dB Offset
 -53.30 dBm
 -37.875752 us
 6.23 dB
 2.935872 ms
 TR
 Center 2.441 GHz
 500 us/

Date: 4. JAN. 2015 19:55:53

Delta 1 [T1] -0.91 dB 2.945892 ms

Ref Lvl 23.5 dBm

RBW 1 MHz VBW 3 MHz RF Att 30 dB

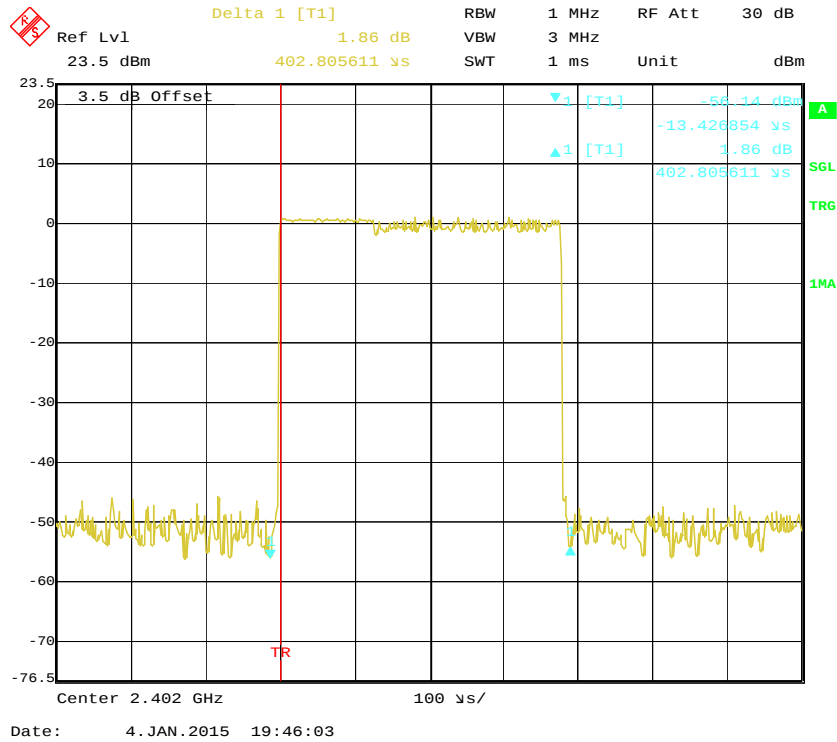
SWT 5 ms Unit dBm

3.5 dB Offset

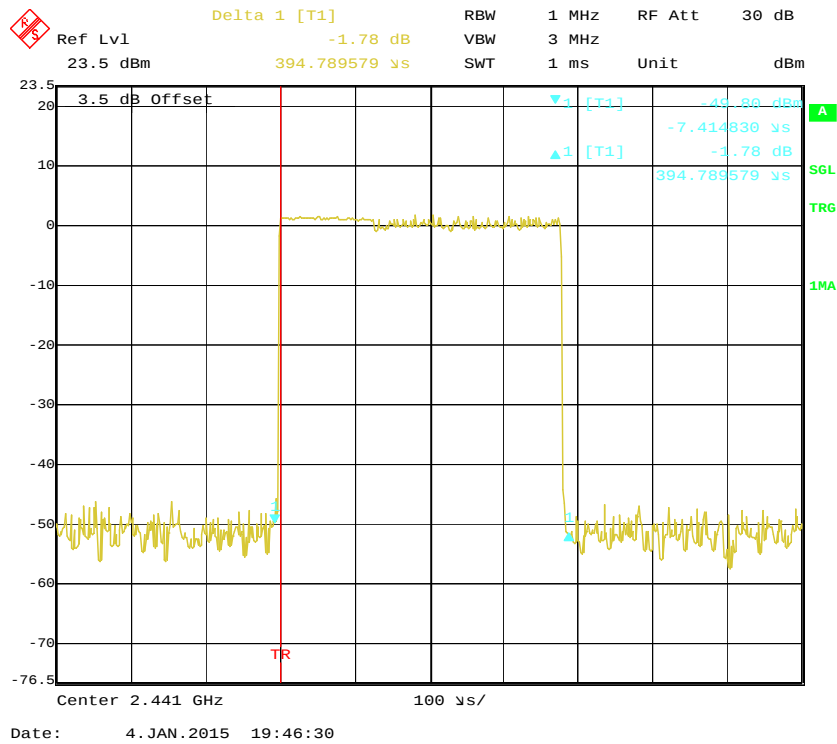
Center 2.48 GHz 500 MHz

Date: 4. JAN. 2015 19:56:28

EDR (8DPSK): Pulse time, Low Channel, DH1



Pulse time, Middle Channel, DH1



Ref Lvl 23.5 dBm Delta 1 [T1] -2.06 dB RBW 1 MHz VBW 3 MHz RF Att 30 dB Unit dBm

3.5 dB Offset

Center 2.48 GHz 100 μ s/

Delta 1 [T1] -2.06 dB

Delta 2 [T2] -7.414830 μ s

Delta 3 [T3] -2.06 dB

Delta 4 [T4] 402.805611 μ s

Delta 5 [T5] -53.19 dBm

Delta 6 [T6] -2.06 dB

Delta 7 [T7] 402.805611 μ s

Delta 8 [T8] -2.06 dB

Delta 9 [T9] -2.06 dB

Delta 10 [T10] -2.06 dB

Delta 11 [T11] -2.06 dB

Delta 12 [T12] -2.06 dB

Delta 13 [T13] -2.06 dB

Delta 14 [T14] -2.06 dB

Delta 15 [T15] -2.06 dB

Delta 16 [T16] -2.06 dB

Delta 17 [T17] -2.06 dB

Delta 18 [T18] -2.06 dB

Delta 19 [T19] -2.06 dB

Delta 20 [T20] -2.06 dB

Delta 21 [T21] -2.06 dB

Delta 22 [T22] -2.06 dB

Delta 23 [T23] -2.06 dB

Delta 24 [T24] -2.06 dB

Delta 25 [T25] -2.06 dB

Delta 26 [T26] -2.06 dB

Delta 27 [T27] -2.06 dB

Delta 28 [T28] -2.06 dB

Delta 29 [T29] -2.06 dB

Delta 30 [T30] -2.06 dB

Delta 31 [T31] -2.06 dB

Delta 32 [T32] -2.06 dB

Delta 33 [T33] -2.06 dB

Delta 34 [T34] -2.06 dB

Delta 35 [T35] -2.06 dB

Delta 36 [T36] -2.06 dB

Delta 37 [T37] -2.06 dB

Delta 38 [T38] -2.06 dB

Delta 39 [T39] -2.06 dB

Delta 40 [T40] -2.06 dB

Delta 41 [T41] -2.06 dB

Delta 42 [T42] -2.06 dB

Delta 43 [T43] -2.06 dB

Delta 44 [T44] -2.06 dB

Delta 45 [T45] -2.06 dB

Delta 46 [T46] -2.06 dB

Delta 47 [T47] -2.06 dB

Delta 48 [T48] -2.06 dB

Delta 49 [T49] -2.06 dB

Delta 50 [T50] -2.06 dB

Delta 51 [T51] -2.06 dB

Delta 52 [T52] -2.06 dB

Delta 53 [T53] -2.06 dB

Delta 54 [T54] -2.06 dB

Delta 55 [T55] -2.06 dB

Delta 56 [T56] -2.06 dB

Delta 57 [T57] -2.06 dB

Delta 58 [T58] -2.06 dB

Delta 59 [T59] -2.06 dB

Delta 60 [T60] -2.06 dB

Delta 61 [T61] -2.06 dB

Delta 62 [T62] -2.06 dB

Delta 63 [T63] -2.06 dB

Delta 64 [T64] -2.06 dB

Delta 65 [T65] -2.06 dB

Delta 66 [T66] -2.06 dB

Delta 67 [T67] -2.06 dB

Delta 68 [T68] -2.06 dB

Delta 69 [T69] -2.06 dB

Delta 70 [T70] -2.06 dB

Delta 71 [T71] -2.06 dB

Delta 72 [T72] -2.06 dB

Delta 73 [T73] -2.06 dB

Delta 74 [T74] -2.06 dB

Delta 75 [T75] -2.06 dB

Delta 76 [T76] -2.06 dB

Delta 77 [T77] -2.06 dB

Delta 78 [T78] -2.06 dB

Delta 79 [T79] -2.06 dB

Delta 80 [T80] -2.06 dB

Delta 81 [T81] -2.06 dB

Delta 82 [T82] -2.06 dB

Delta 83 [T83] -2.06 dB

Delta 84 [T84] -2.06 dB

Delta 85 [T85] -2.06 dB

Delta 86 [T86] -2.06 dB

Delta 87 [T87] -2.06 dB

Delta 88 [T88] -2.06 dB

Delta 89 [T89] -2.06 dB

Delta 90 [T90] -2.06 dB

Delta 91 [T91] -2.06 dB

Delta 92 [T92] -2.06 dB

Delta 93 [T93] -2.06 dB

Delta 94 [T94] -2.06 dB

Delta 95 [T95] -2.06 dB

Delta 96 [T96] -2.06 dB

Delta 97 [T97] -2.06 dB

Delta 98 [T98] -2.06 dB

Delta 99 [T99] -2.06 dB

Delta 100 [T100] -2.06 dB

Delta 101 [T101] -2.06 dB

Delta 102 [T102] -2.06 dB

Delta 103 [T103] -2.06 dB

Delta 104 [T104] -2.06 dB

Delta 105 [T105] -2.06 dB

Delta 106 [T106] -2.06 dB

Delta 107 [T107] -2.06 dB

Delta 108 [T108] -2.06 dB

Delta 109 [T109] -2.06 dB

Delta 110 [T110] -2.06 dB

Delta 111 [T111] -2.06 dB

Delta 112 [T112] -2.06 dB

Delta 113 [T113] -2.06 dB

Delta 114 [T114] -2.06 dB

Delta 115 [T115] -2.06 dB

Delta 116 [T116] -2.06 dB

Delta 117 [T117] -2.06 dB

Delta 118 [T118] -2.06 dB

Delta 119 [T119] -2.06 dB

Delta 120 [T120] -2.06 dB

Delta 121 [T121] -2.06 dB

Delta 122 [T122] -2.06 dB

Delta 123 [T123] -2.06 dB

Delta 124 [T124] -2.06 dB

Delta 125 [T125] -2.06 dB

Delta 126 [T126] -2.06 dB

Delta 127 [T127] -2.06 dB

Delta 128 [T128] -2.06 dB

Delta 129 [T129] -2.06 dB

Delta 130 [T130] -2.06 dB

Delta 131 [T131] -2.06 dB

Delta 132 [T132] -2.06 dB

Delta 133 [T133] -2.06 dB

Delta 134 [T134] -2.06 dB

Delta 135 [T135] -2.06 dB

Delta 136 [T136] -2.06 dB

Delta 137 [T137] -2.06 dB

Delta 138 [T138] -2.06 dB

Delta 139 [T139] -2.06 dB

Delta 140 [T140] -2.06 dB

Delta 141 [T141] -2.06 dB

Delta 142 [T142] -2.06 dB

Delta 143 [T143] -2.06 dB

Delta 144 [T144] -2.06 dB

Delta 145 [T145] -2.06 dB

Delta 146 [T146] -2.06 dB

Delta 147 [T147] -2.06 dB

Delta 148 [T148] -2.06 dB

Delta 149 [T149] -2.06 dB

Delta 150 [T150] -2.06 dB

Delta 151 [T151] -2.06 dB

Delta 152 [T152] -2.06 dB

Delta 153 [T153] -2.06 dB

Delta 154 [T154] -2.06 dB

Delta 155 [T155] -2.06 dB

Delta 156 [T156] -2.06 dB

Delta 157 [T157] -2.06 dB

Delta 158 [T158] -2.06 dB

Delta 159 [T159] -2.06 dB

Delta 160 [T160] -2.06 dB

Delta 161 [T161] -2.06 dB

Delta 162 [T162] -2.06 dB

Delta 163 [T163] -2.06 dB

Delta 164 [T164] -2.06 dB

Delta 165 [T165] -2.06 dB

Delta 166 [T166] -2.06 dB

Delta 167 [T167] -2.06 dB

Delta 168 [T168] -2.06 dB

Delta 169 [T169] -2.06 dB

Delta 170 [T170] -2.06 dB

Delta 171 [T171] -2.06 dB

Delta 172 [T172] -2.06 dB

Delta 173 [T173] -2.06 dB

Delta 174 [T174] -2.06 dB

Delta 175 [T175] -2.06 dB

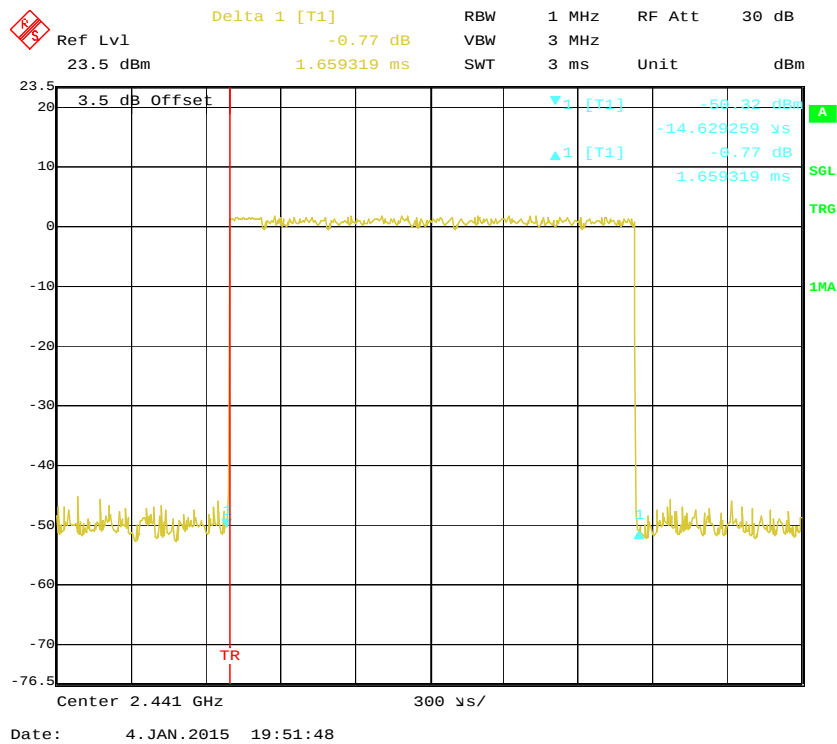
Delta 176 [T176] -2.06 dB</

Date: 4.JAN.2015 19:47:01

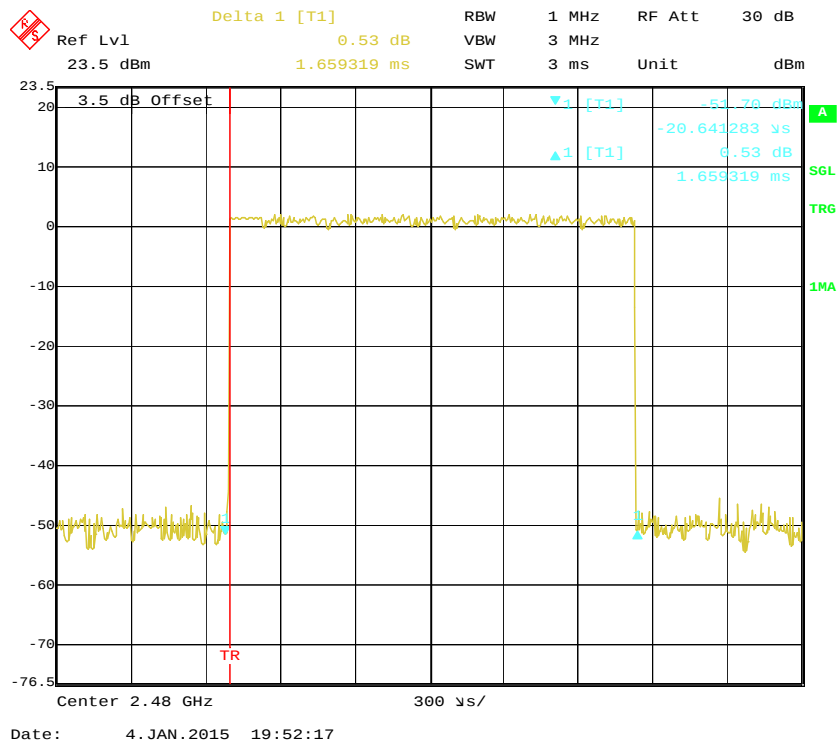
[illegible]

Date: 4.JAN.2015 19:51:18

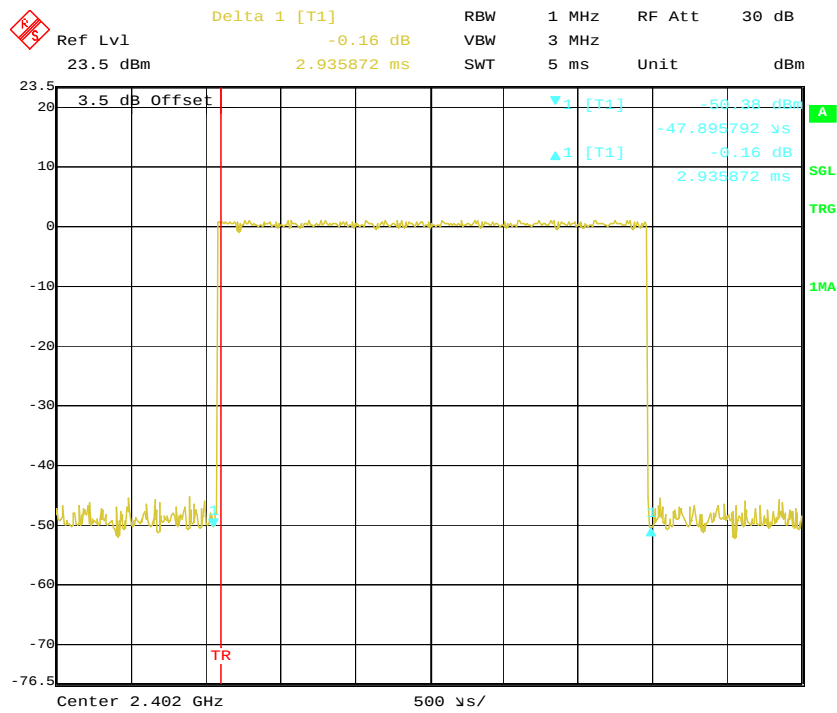
Pulse time, Middle Channel, DH3



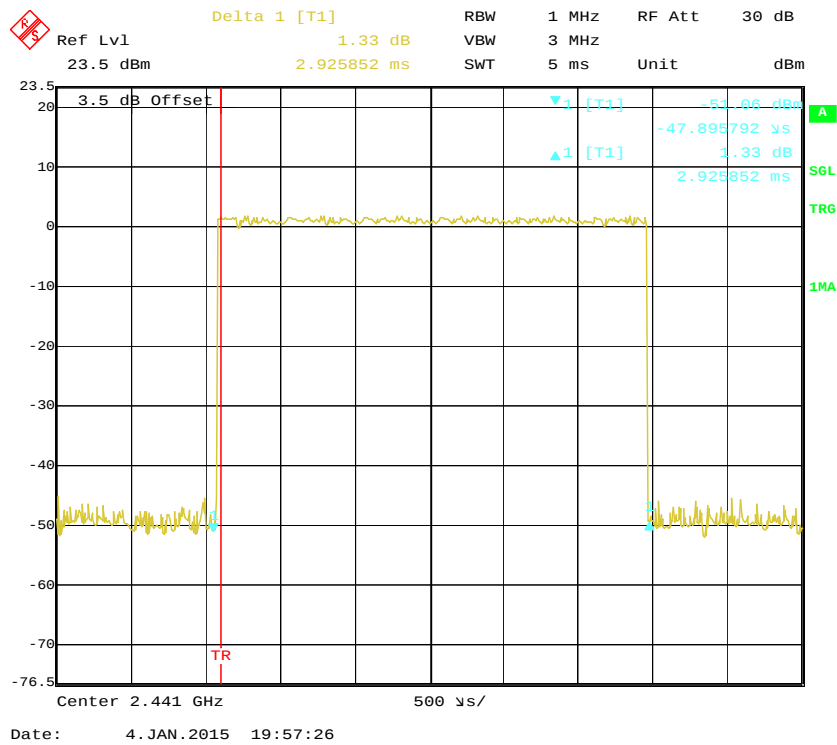
Pulse time, High Channel, DH3



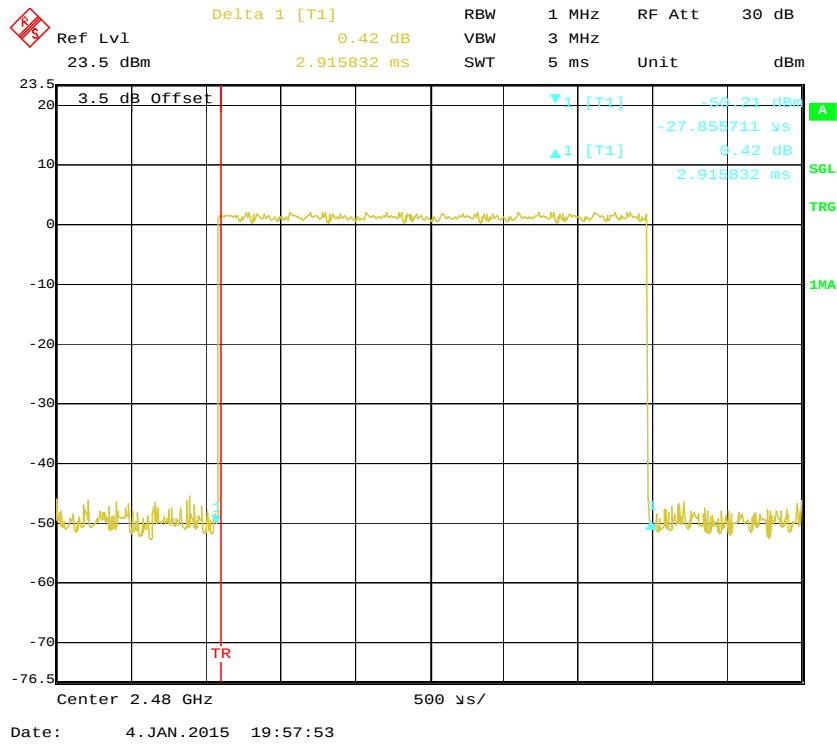
Pulse time, Low Channel, DH5



Pulse time, Middle Channel, DH5



Pulse time, High Channel, DH5



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 one test equipment.
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	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

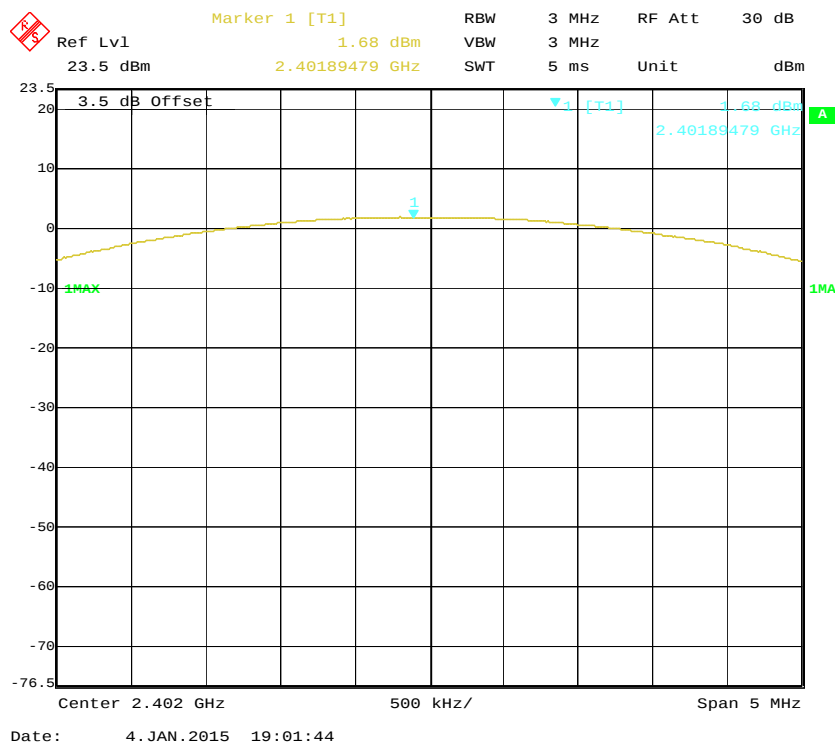
Temperature:	25
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2015-01-04

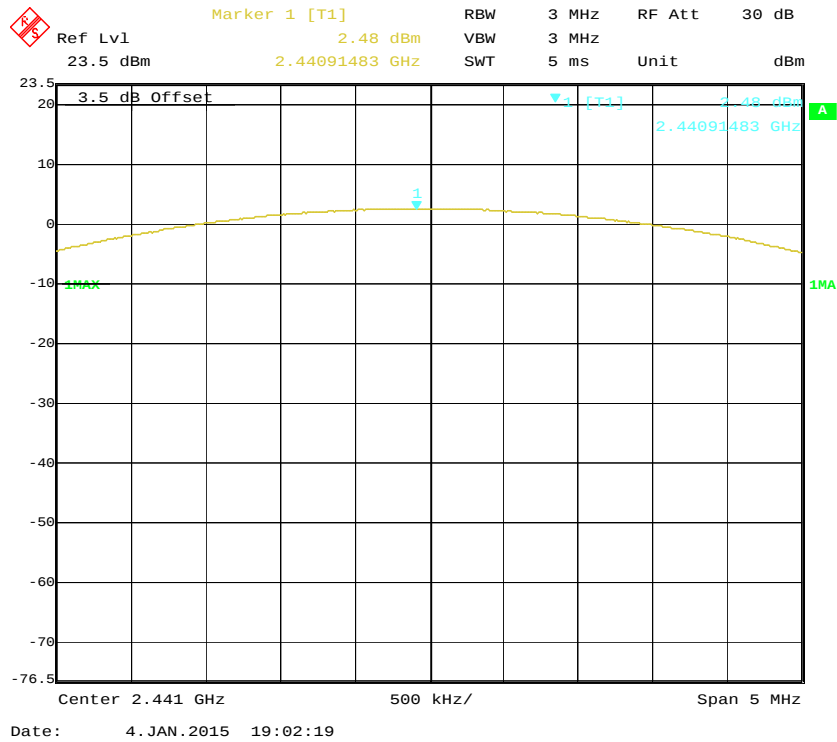
EUT operation mode: Transmitting

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

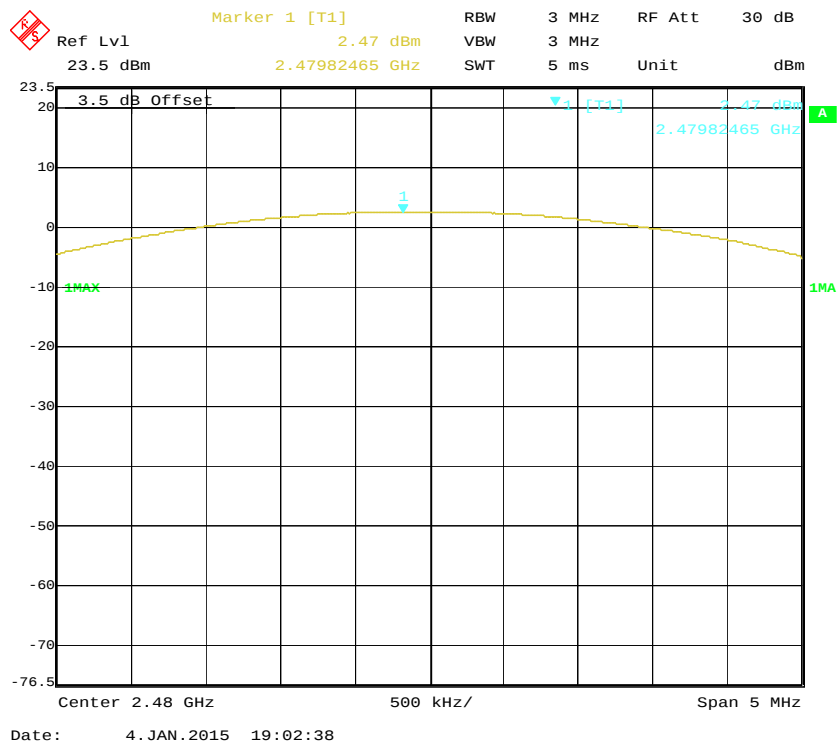
Mode	Channel	Frequency (MHz)	Peak Output Power		Limit (mW)
			(dBm)	(mW)	
BDR (GFSK)	Low	2402	1.68	1.47	1000
	Middle	2441	2.48	1.77	1000
	High	2480	2.47	1.77	1000
EDR ($\pi/4$-DQPSK)	Low	2402	1.12	1.29	1000
	Middle	2441	1.75	1.50	1000
	High	2480	2.05	1.60	1000
EDR (8DPSK)	Low	2402	1.36	1.37	1000
	Middle	2441	2.05	1.60	1000
	High	2480	2.36	1.72	1000

BDR (GFSK): Low Channel

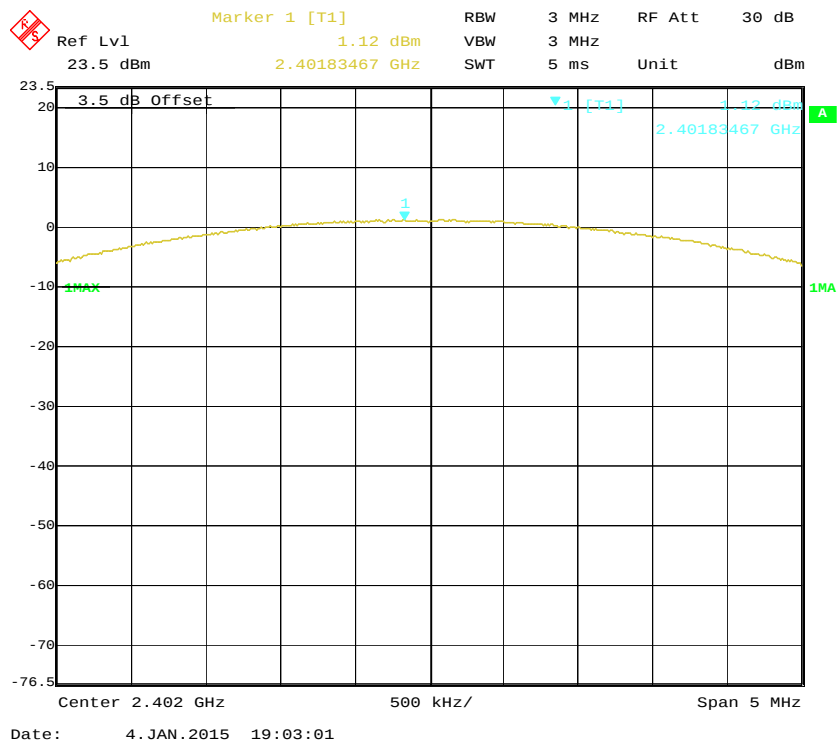
BDR (GFSK): Middle Channel



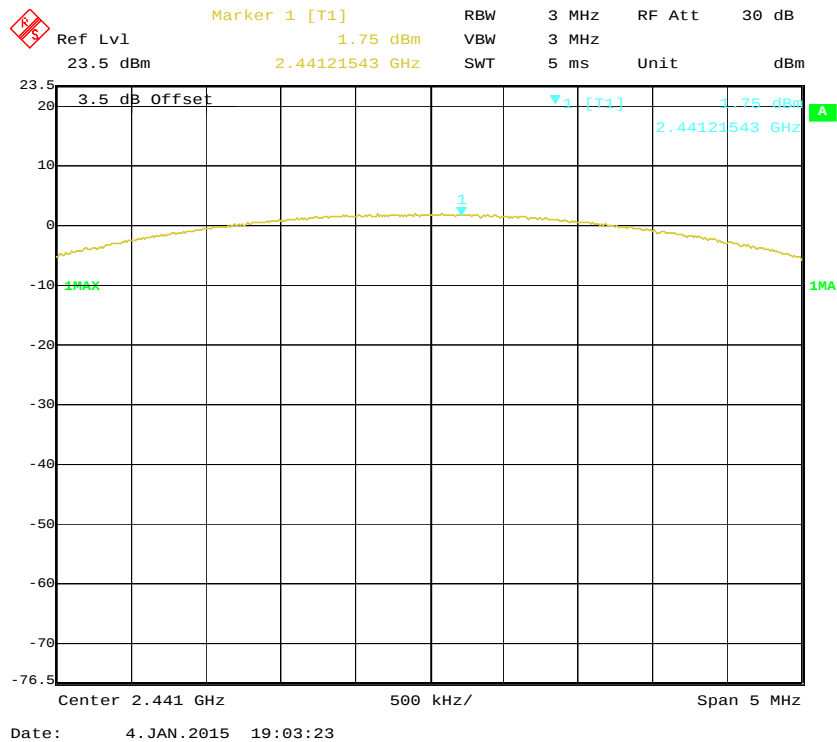
BDR (GFSK): High Channel



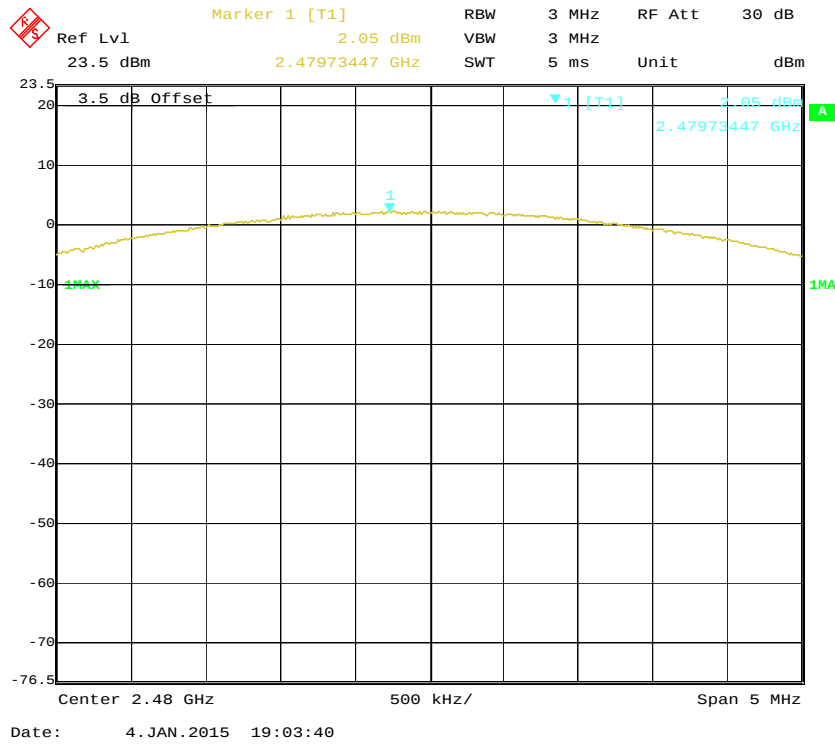
EDR($\pi/4$ -DQPSK): Low Channel



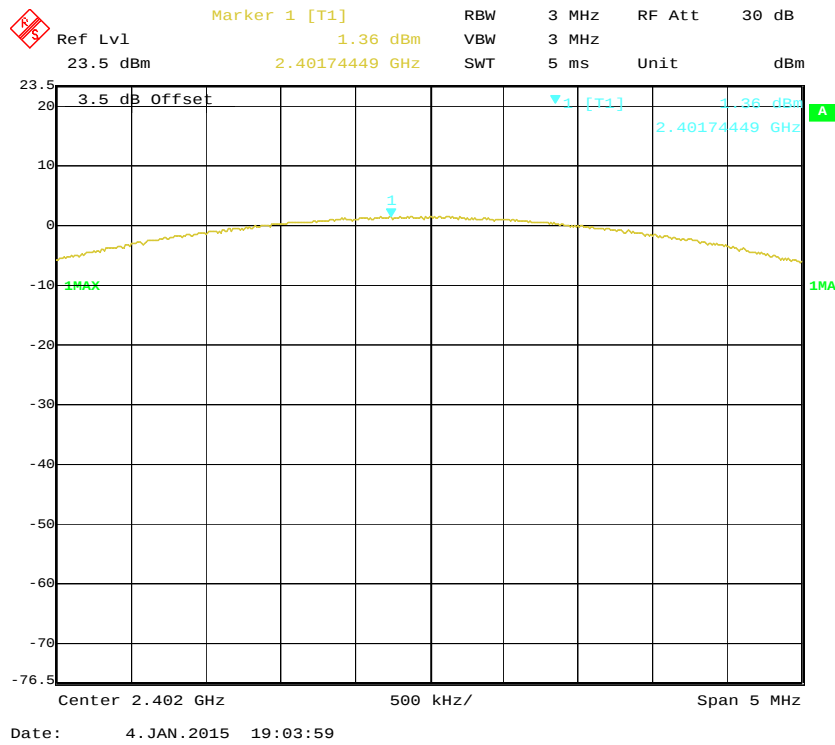
EDR($\pi/4$ -DQPSK): Middle Channel



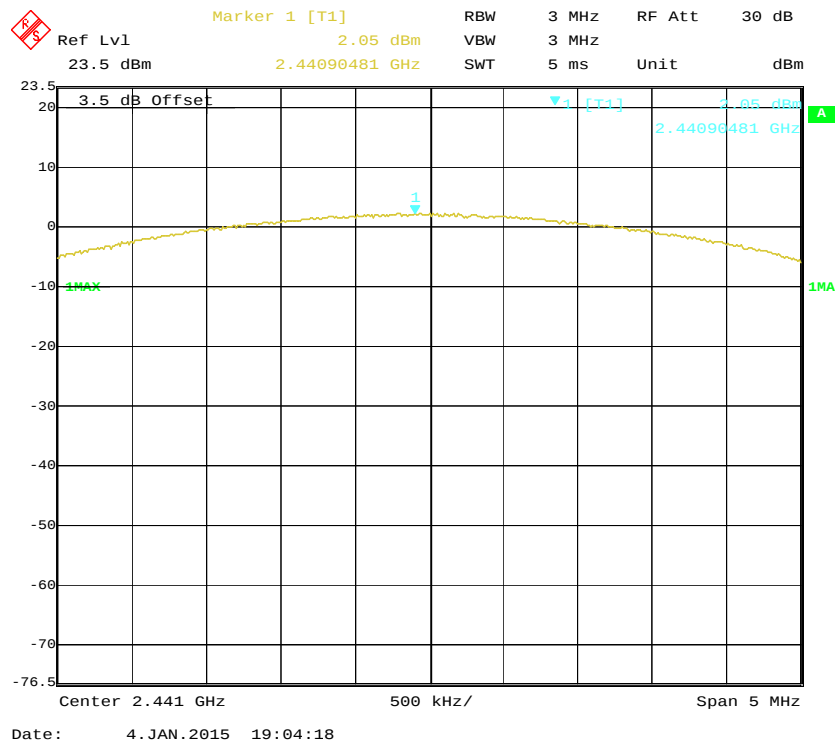
EDR($\pi/4$ -DQPSK): High Channel



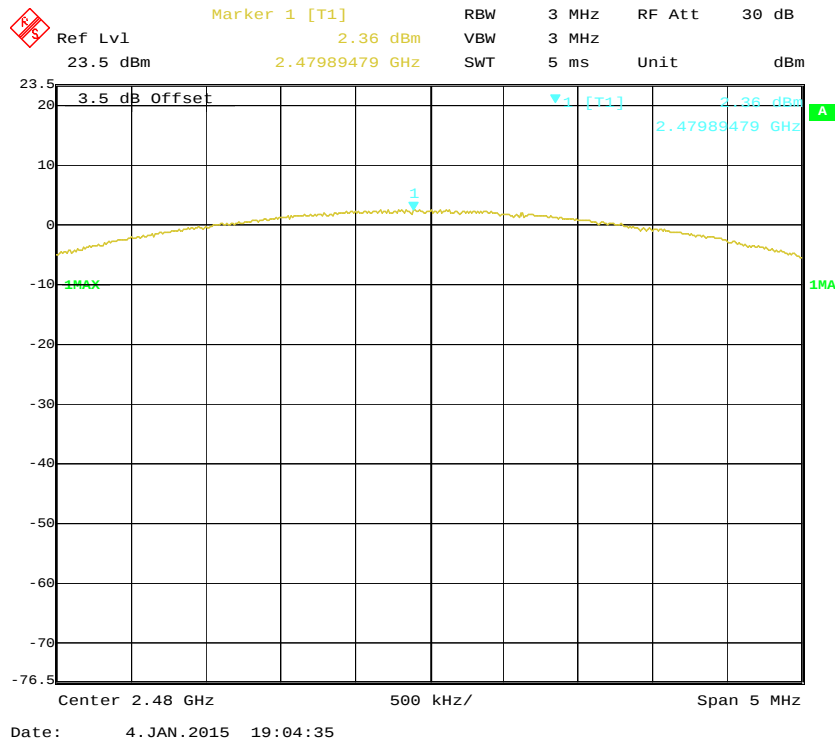
EDR(8DPSK): Low Channel



EDR(8DPSK): Middle Channel



EDR(8DPSK): High Channel



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 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
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	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	25
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

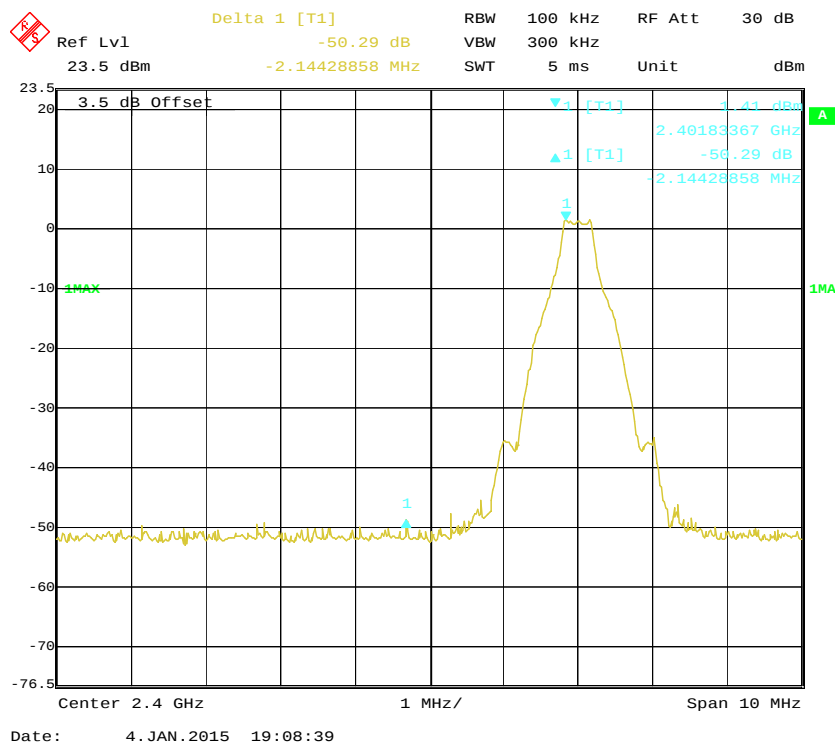
The testing was performed by Haiguo Li on 2015-01-04

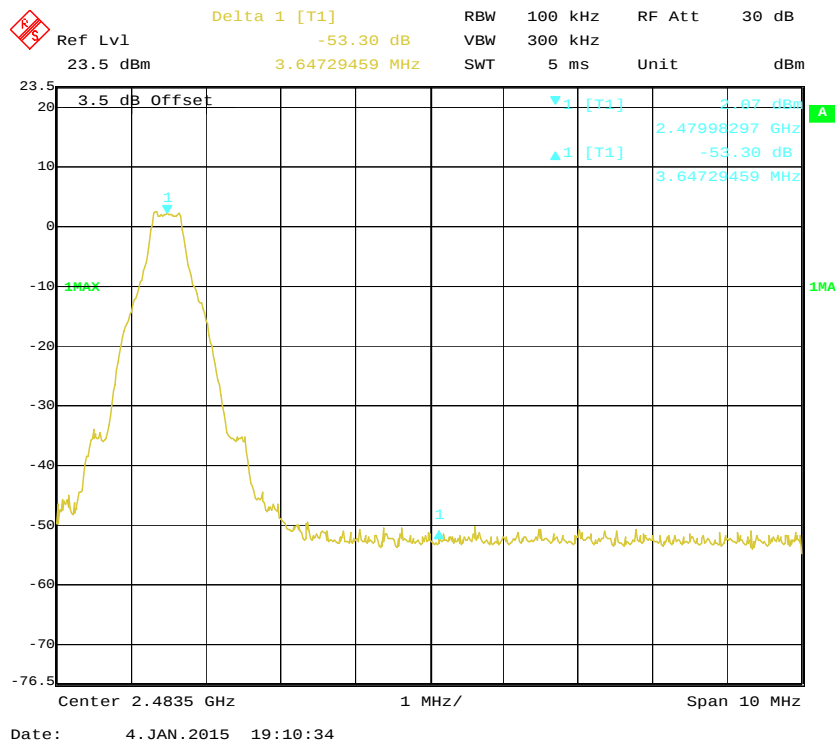
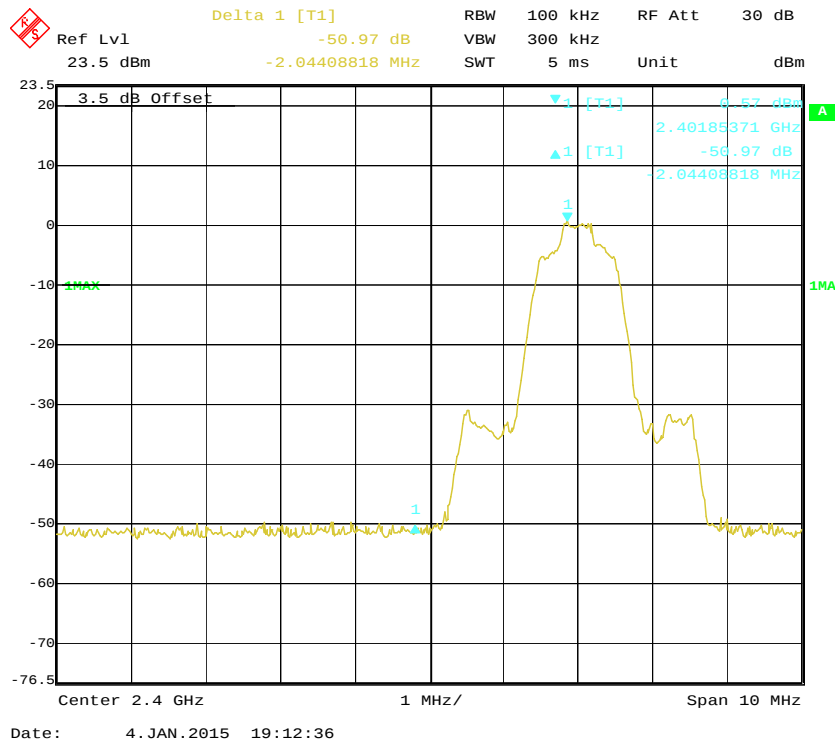
EUT operation mode: Transmitting

Mode	Band edges	Delta Peak to band emission (dBc)	≥ Limit (dBc)
BDR (GFSK)	Left Side	50.29	20
	Right Side	53.30	20
EDR ($\pi/4$-DQPSK)	Left Side	50.97	20
	Right Side	52.65	20
EDR (8DPSK)	Left Side	51.04	20
	Right Side	52.44	20

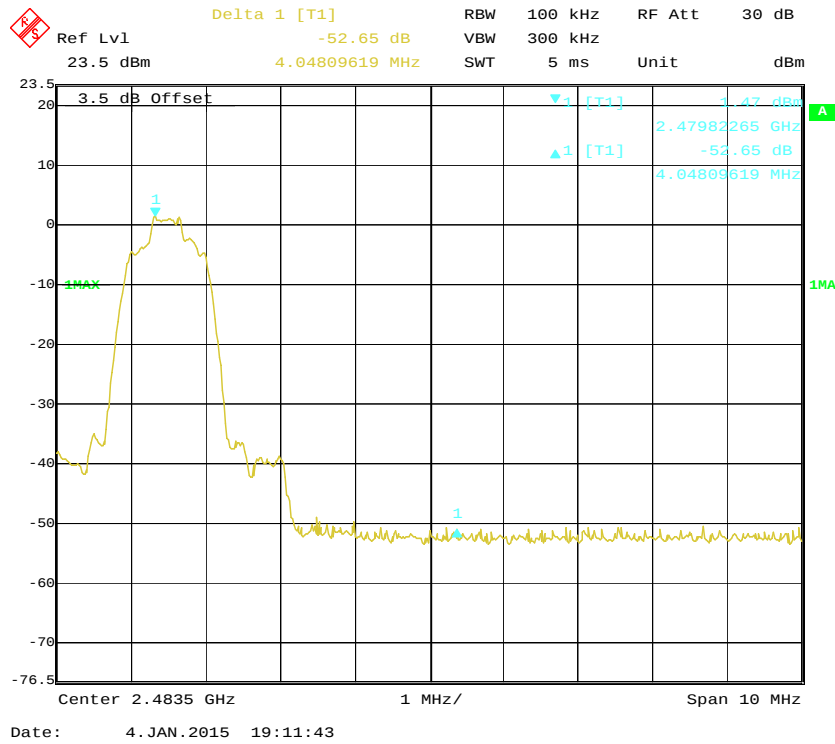
Test Result: Compliance. Please refer to following plots.

BDR (GFSK): Band Edge-Left Side

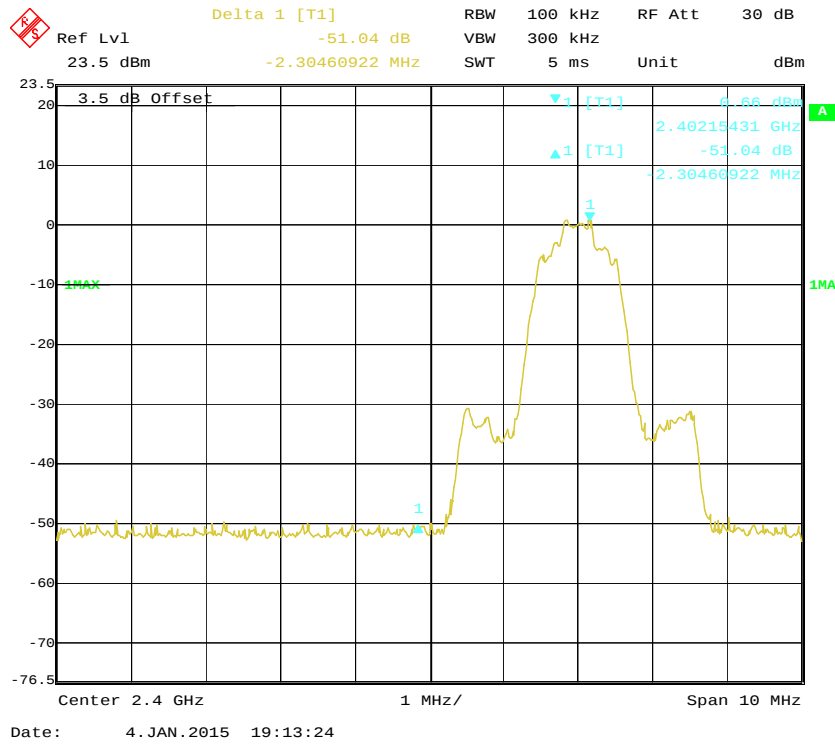


BDR (GFSK): Band Edge-Right Side**EDR ($\pi/4$ -DQPSK): Band Edge-Left Side**

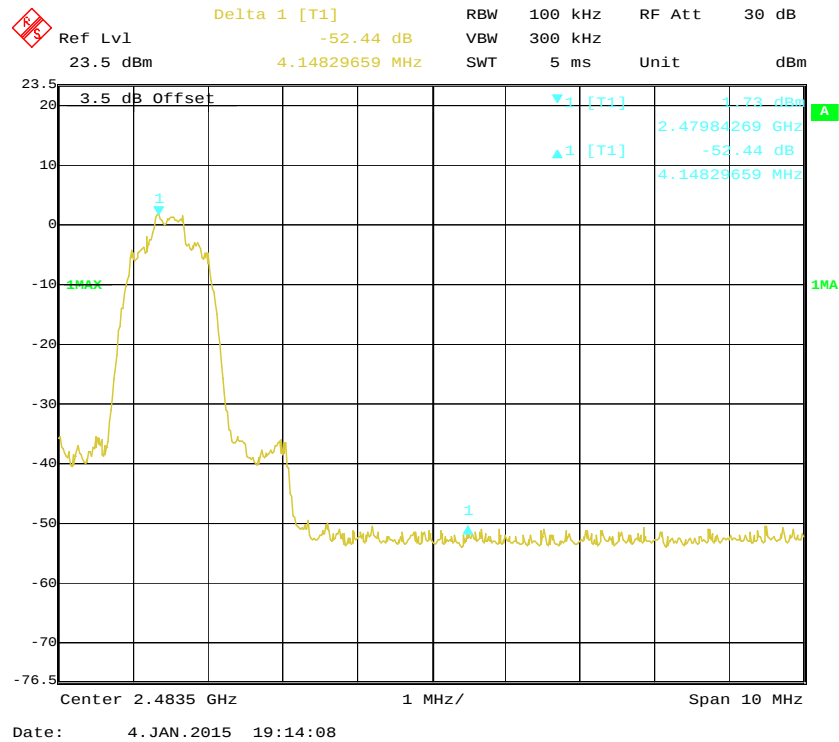
EDR ($\pi/4$ -DQPSK): Band Edge-Right Side



EDR (8DPSK): Band Edge-Left Side



BDR (8DPSK): Band Edge-Right Side



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