

FCC PART 15.247 TEST REPORT

For

Shenzhen YIDONG Technology Co., Ltd

Floor 1-5, Building B, Area B, Yuanfen Industrial Zone, Dalang, Bao'an District, Shenzhen,
China

FCC ID: LU7-ZT701

Report Type: Original Report	Product Type: MID
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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 *Shenzhen YIDONG Technology Co., Ltd*'s product, model number: *LU7-ZT701 (FCC ID: LU7-ZT701)* or the "EUT" in this report was a *MID*, which was measured approximately: 18.5 cm (L) x 11.6 cm (W) x 1.0 cm (H), rated with input voltage: DC 3.7 V rechargeable Li-ion battery or DC 5.0V charging from adapter.

Adapter Information:

Model: WRP2U-050200U

Input: AC 100-240V, 50/60 Hz, 0.4A

Output: DC 5.0V, 2A

**All measurement and test data in this report was gathered from production sample serial number: 1405162 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2014-05-26.*

Objective

This test report is prepared on behalf of *Shenzhen YIDONG Technology Co., 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 15.247 DTS, Part 15B JBP submissions with FCC ID: LU7-ZT701

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

RF test tool built-in the EUT.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

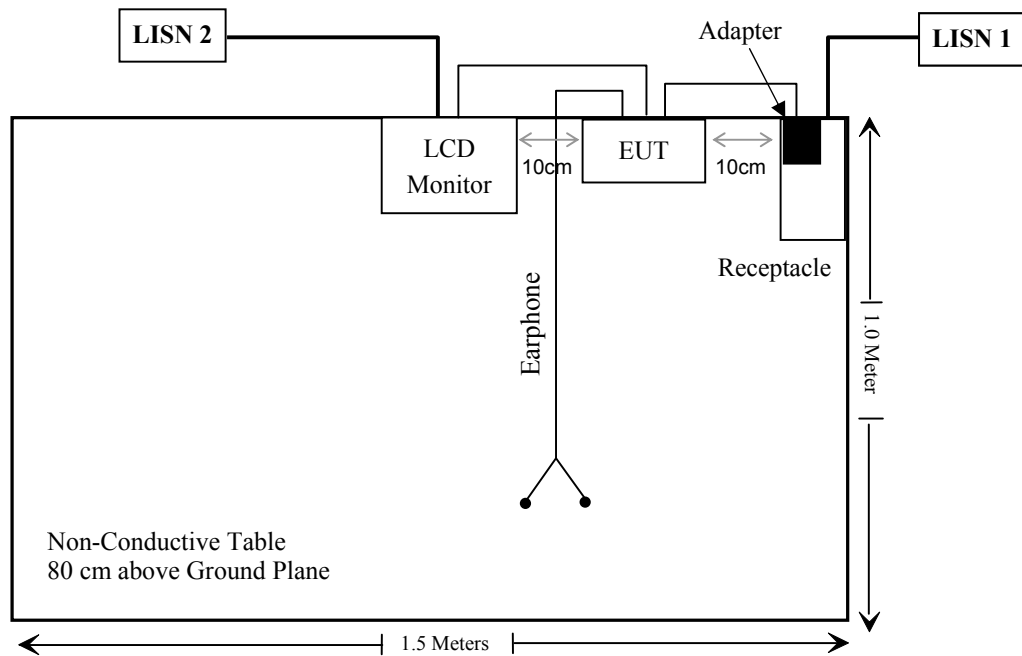
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	LCD Monitor	ST2420Lb	/
Kingston	Micro SD card	4 GB	/

External I/O Cable

Cable Description	Length (m)	From/Port	To
Shielding Detachable HDMI Cable	1.2	EUT	LCD Monitor
Shielding Detachable USB Cable	1.2	EUT	Adapter
Un-shielding Detachable Earphone Cable	1.0	EUT	Earphone

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247 (i) & §1.1310 & §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) & §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

According to §15.247(i) and §1.1310, 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.

According to KDB447498 D01 General RF Exposure Guidance v05r02:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

The maximum conducted output power= 7.29 dBm (5.36 mW) at 2441 MHz
 $[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$
 $= 5.36/5 \cdot (\sqrt{2.441}) = 1.67 < 3.0$

So the stand-alone SAR evaluation is not necessary.

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 integral antenna arrangement for bluetooth, which was permanently attached and the antenna gain is 2.0 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(a)

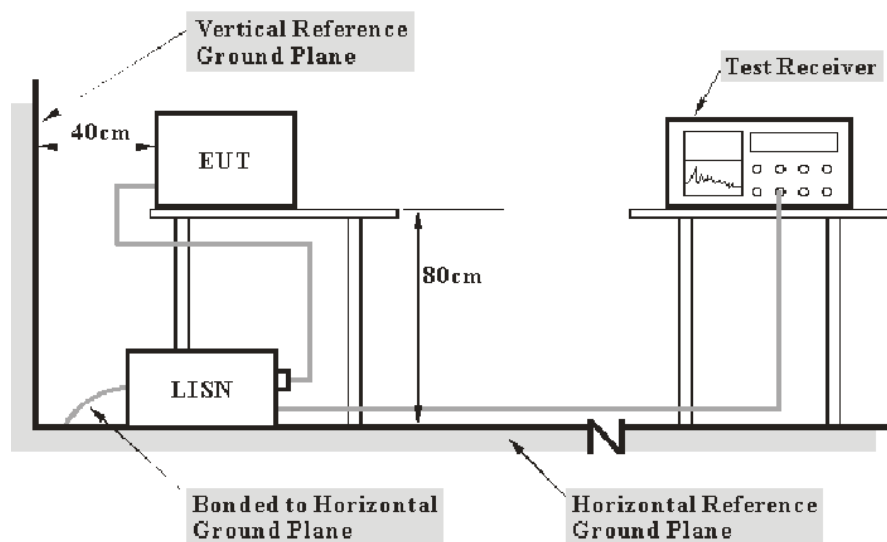
Measurement Uncertainty

Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between AMN/ISN and receiver, AMN/ISN voltage division factor, AMN/ISN 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	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 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	ENV216	3560.6650.12-101613-Yb	2014-05-07	2015-05-07
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2013-10-15	2014-10-15
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:

12.3 dB at 0.226500 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

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

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

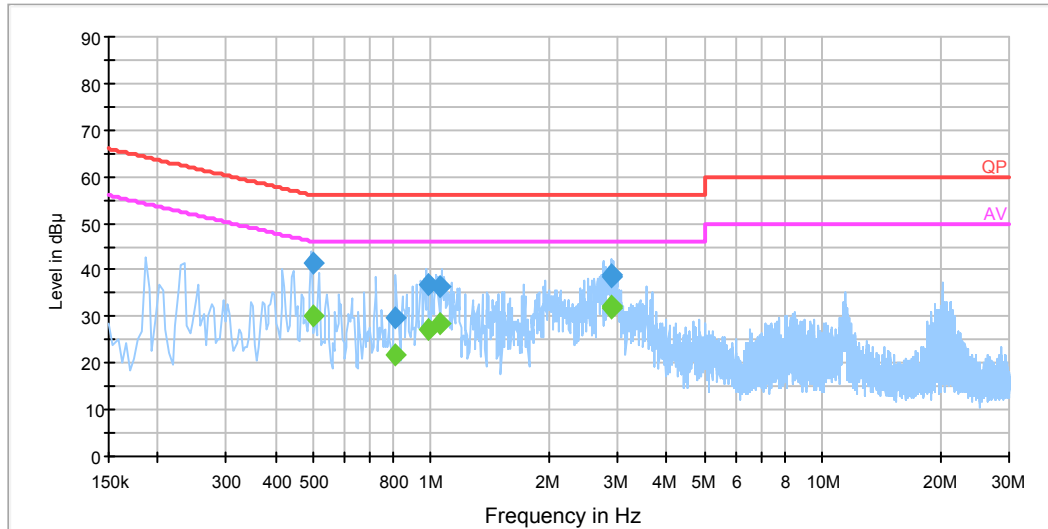
Test Data

Environmental Conditions

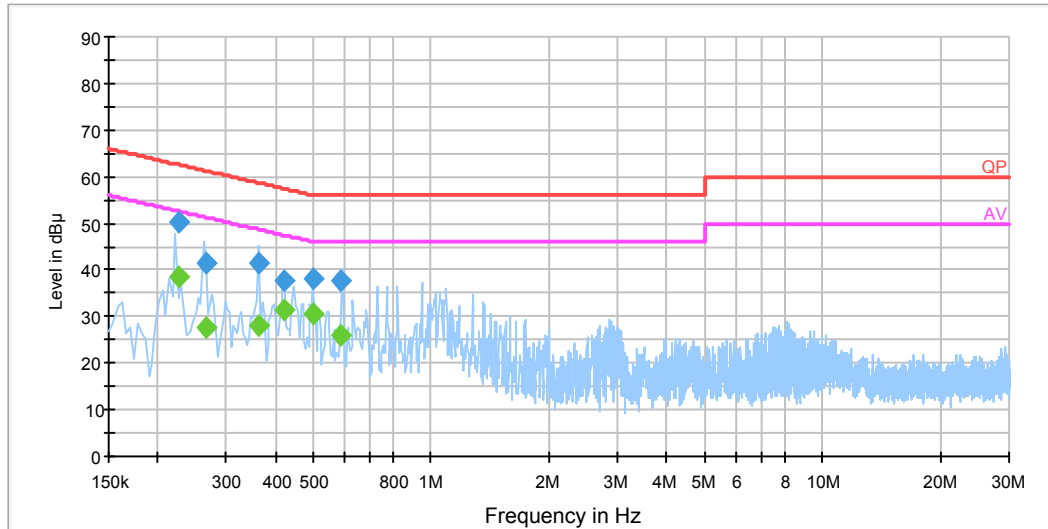
Temperature:	28 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Mike Hu on 2014-06-18.

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)
0.498590	41.2	19.6	56.0	14.8	QP
0.498590	30.1	19.6	46.0	15.9	Ave.
0.805790	29.9	19.5	56.0	26.1	QP
0.805790	21.8	19.5	46.0	24.2	Ave.
0.987390	36.9	19.5	56.0	19.1	QP
0.987390	27.4	19.5	46.0	18.6	Ave.
1.050070	36.5	19.5	56.0	19.5	QP
1.050070	28.5	19.5	46.0	17.5	Ave.
2.890650	38.4	19.6	56.0	17.6	QP
2.890650	32.0	19.6	46.0	14.0	Ave.
2.901990	38.8	19.7	56.0	17.2	QP
2.901990	32.2	19.7	46.0	13.8	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)
0.226500	50.3	19.5	62.6	12.3	QP
0.226500	38.4	19.5	52.6	14.2	Ave.
0.266500	41.3	19.5	61.2	20.0	QP
0.266500	27.6	19.5	51.2	23.6	Ave.
0.364570	41.4	19.5	58.6	17.3	QP
0.364570	27.9	19.5	48.6	20.7	Ave.
0.419670	37.6	19.6	57.5	19.9	QP
0.419670	31.4	19.6	47.5	16.0	Ave.
0.498530	37.9	19.7	56.0	18.1	QP
0.498530	30.6	19.7	46.0	15.4	Ave.
0.589090	37.5	19.6	56.0	18.5	QP
0.589090	25.9	19.6	46.0	20.1	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)

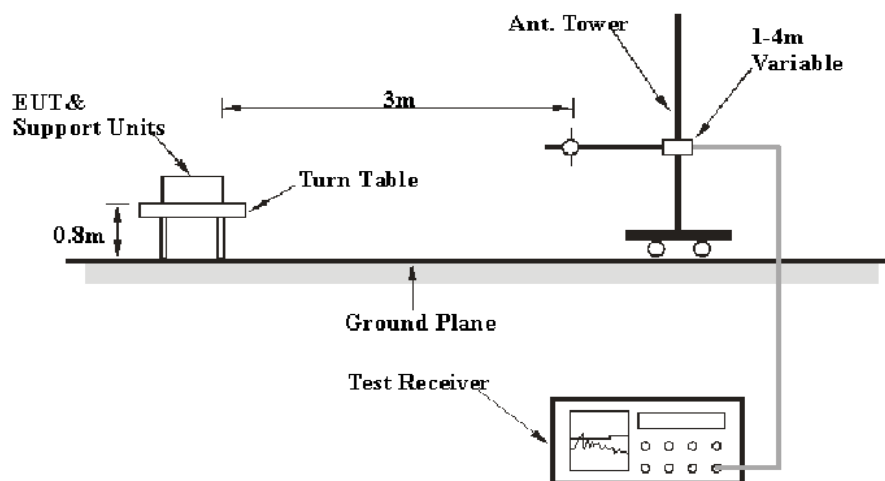
Measurement Uncertainty

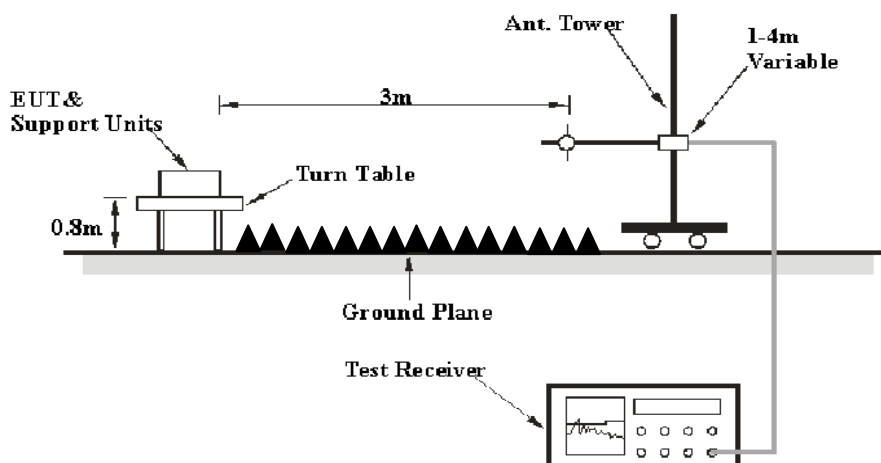
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency 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	8447E	1937A01046	2013-09-30	2014-09-30
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2013-09-17	2014-09-17
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2014-11-27
Mini	Amplifier	ZVA-183-S+	5969001149	2014-04-03	2015-04-03
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2015-02-10
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2013-11-12	2014-11-12
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#	2011-07-23	2014-07-23
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.

5.05 dB at 143.8 MHz in the Horizontal polarization

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:	25 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Mike Hu on 2014-06-03.

EUT operation mode: Transmitting

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)									
143.8	52.34	QP	120	1.1	H	-14.1	38.24	43.5	5.26
2402.0	96.27	PK	56	1.2	H	5.48	101.75	/	/
2402.0	87.54	Ave.	56	1.2	H	5.48	93.02	/	/
2402.0	97.39	PK	282	1.5	V	5.48	102.87	/	/
2402.0	88.82	Ave.	282	1.5	V	5.48	94.30	/	/
2352.4	35.64	PK	104	1.5	H	5.48	41.12	74	32.88
2352.4	23.22	Ave.	104	1.5	H	5.48	28.70	54	25.30
2387.2	36.12	PK	317	1.4	V	5.48	41.6	74	32.40
2387.2	23.01	Ave.	317	1.4	V	5.48	28.49	54	25.51
2491.2	37.54	PK	158	1.2	H	7.21	44.75	74	29.25
2491.2	24.19	Ave.	158	1.2	H	7.21	31.40	54	22.60
4804.0	37.64	PK	54	1.4	V	12.44	50.08	74	23.92
4804.0	23.46	Ave.	54	1.4	V	12.44	35.90	54	18.10
7206.0	36.47	PK	279	1.3	V	17.06	53.53	74	20.47
7206.0	23.55	Ave.	279	1.3	V	17.06	40.61	54	13.39
9608.0	35.21	PK	195	1.3	H	19.28	54.49	74	19.51
9608.0	22.50	Ave.	195	1.3	H	19.28	41.78	54	12.22
Middle Channel (2441 MHz)									
143.8	51.91	QP	103	1.0	H	-14.1	37.81	43.5	7.69
2441.0	95.48	PK	114	1.2	H	6.13	101.61	/	/
2441.0	86.95	Ave.	114	1.2	H	6.13	93.08	/	/
2441.0	96.75	PK	143	1.4	V	6.13	102.88	/	/
2441.0	88.12	Ave.	143	1.4	V	6.13	94.25	/	/
2363.9	35.64	PK	358	1.2	V	5.48	41.12	74	32.88
2363.9	23.23	Ave.	358	1.2	V	5.48	28.71	54	25.29
2485.7	36.28	PK	257	1.4	H	7.21	43.49	74	30.51
2485.7	23.45	Ave.	257	1.4	H	7.21	30.66	54	23.34
2488.9	37.64	PK	181	1.4	V	7.21	44.85	74	29.15
2488.9	23.88	Ave.	181	1.4	V	7.21	31.09	54	22.91
4882.0	36.54	PK	260	1.2	V	12.4	48.94	74	25.06
4882.0	23.49	Ave.	260	1.2	V	12.4	35.89	54	18.11
7323.0	35.64	PK	89	1.3	H	16.49	52.13	74	21.87
7323.0	22.42	Ave.	89	1.3	H	16.49	38.91	54	15.09
9764.0	35.71	PK	139	1.3	H	19.4	55.11	74	18.89
9764.0	22.37	Ave.	139	1.3	H	19.4	41.77	54	12.23

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)
High Channel (2480 MHz)									
143.8	52.55	QP	83	1.3	H	-14.1	38.45	43.5	5.05
2480	94.64	PK	254	1.3	H	7.21	101.85	/	/
2480	85.80	Ave.	254	1.3	H	7.21	93.01	/	/
2480	95.34	PK	142	1.2	V	7.21	102.55	/	/
2480	86.27	Ave.	142	1.2	V	7.21	93.48	/	/
2365.5	36.51	PK	193	1.2	H	5.48	41.99	74	32.01
2365.5	22.21	Ave.	193	1.2	H	5.48	27.69	54	26.31
2484.5	38.62	PK	174	1.5	H	7.21	45.83	74	28.17
2484.5	25.02	Ave.	174	1.5	H	7.21	32.23	54	21.77
2491.2	38.40	PK	304	1.5	H	7.21	45.61	74	28.39
2491.2	24.59	Ave.	304	1.5	H	7.21	31.80	54	22.20
4960.0	37.64	PK	246	1.3	V	12.5	50.14	74	23.86
4960.0	23.54	Ave.	246	1.3	V	12.5	36.04	54	17.96
7440.0	35.62	PK	70	1.2	V	15.9	51.52	74	22.48
7440.0	22.10	Ave.	70	1.2	V	15.9	38.00	54	16.00
9920.0	35.21	PK	207	1.5	H	19.39	54.60	74	19.40
9920.0	22.04	Ave.	207	1.5	H	19.39	41.43	54	12.57

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	2014-05-31	2015-05-31

* **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 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Mike Hu on 2014-06-03.

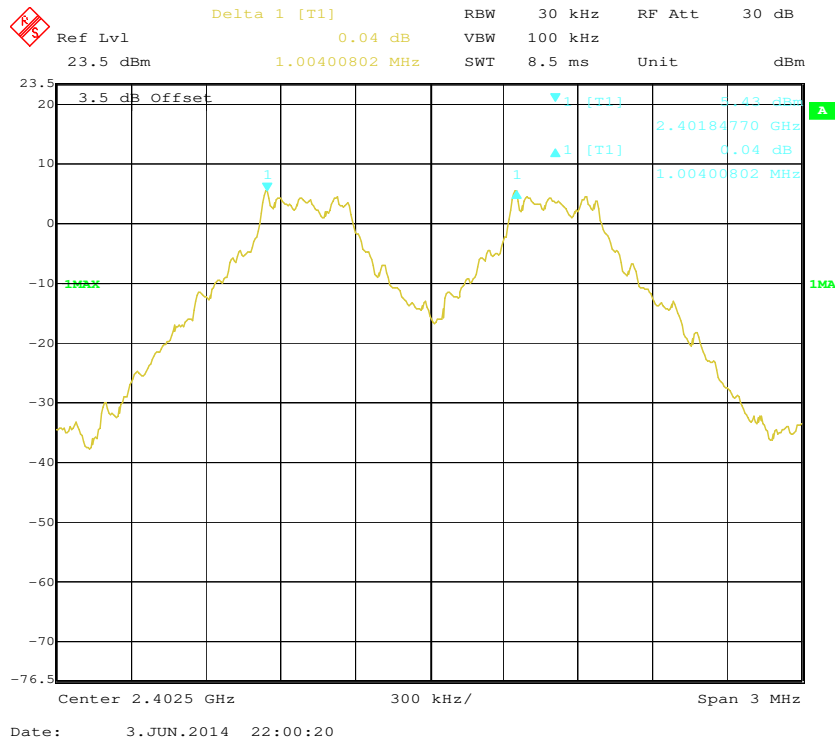
EUT operation mode: Transmitting

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

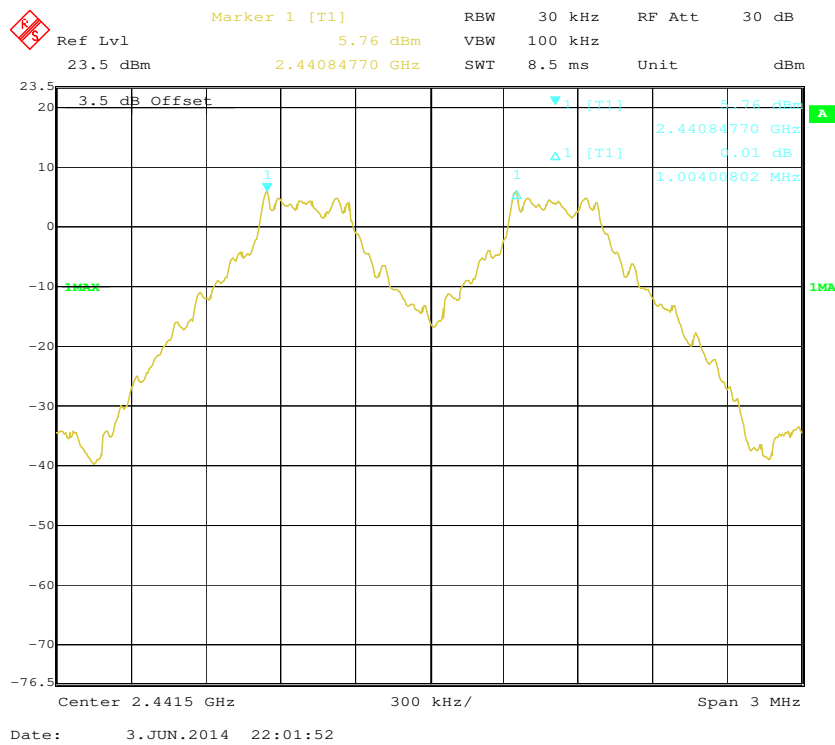
Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	$\geq$ Limit (MHz)	Result
BDR (GFSK)	Low	2402	1.004	0.629	Pass
	Adjacent	2403			
	Middle	2441	1.004	0.630	Pass
	Adjacent	2442			
	High	2480	1.003	0.625	Pass
	Adjacent	2479			
EDR ($\pi/4$-DQPSK)	Low	2402	1.004	0.839	Pass
	Adjacent	2403			
	Middle	2441	1.003	0.838	Pass
	Adjacent	2442			
	High	2480	1.004	0.837	Pass
	Adjacent	2479			
EDR (8DPSK)	Low	2402	1.004	0.850	Pass
	Adjacent	2403			
	Middle	2441	1.004	0.850	Pass
	Adjacent	2442			
	High	2480	1.005	0.851	Pass
	Adjacent	2479			

Note: Limit = 20 dB bandwidth *2/3

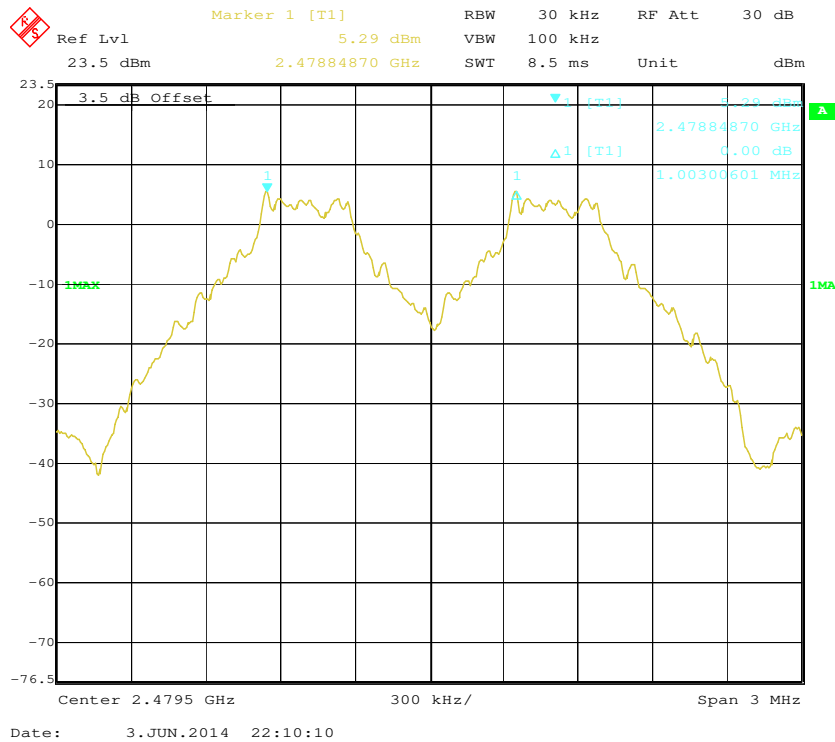
BDR (GFSK): Low Channel



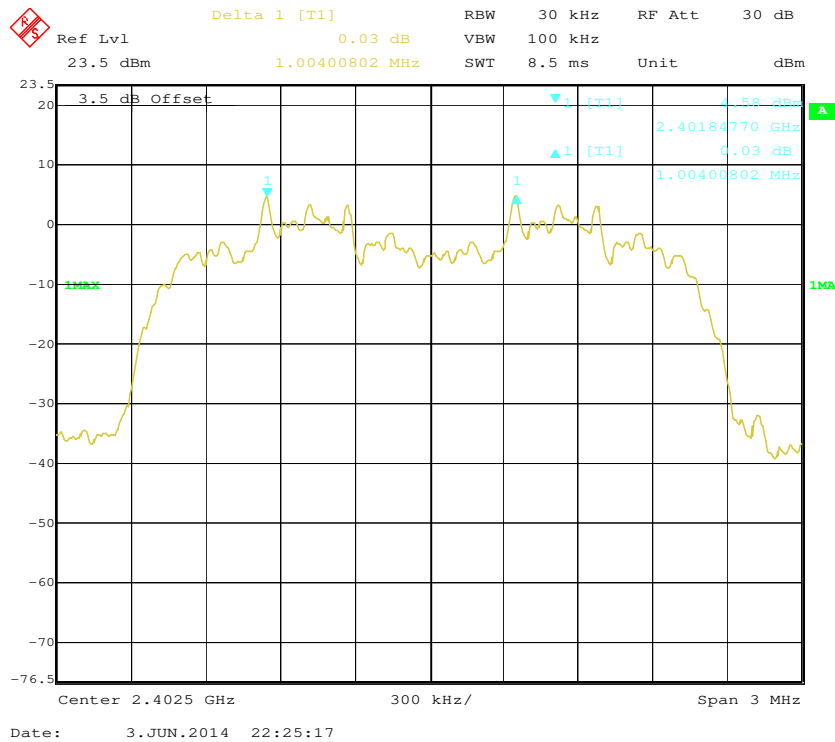
BDR (GFSK): Middle Channel



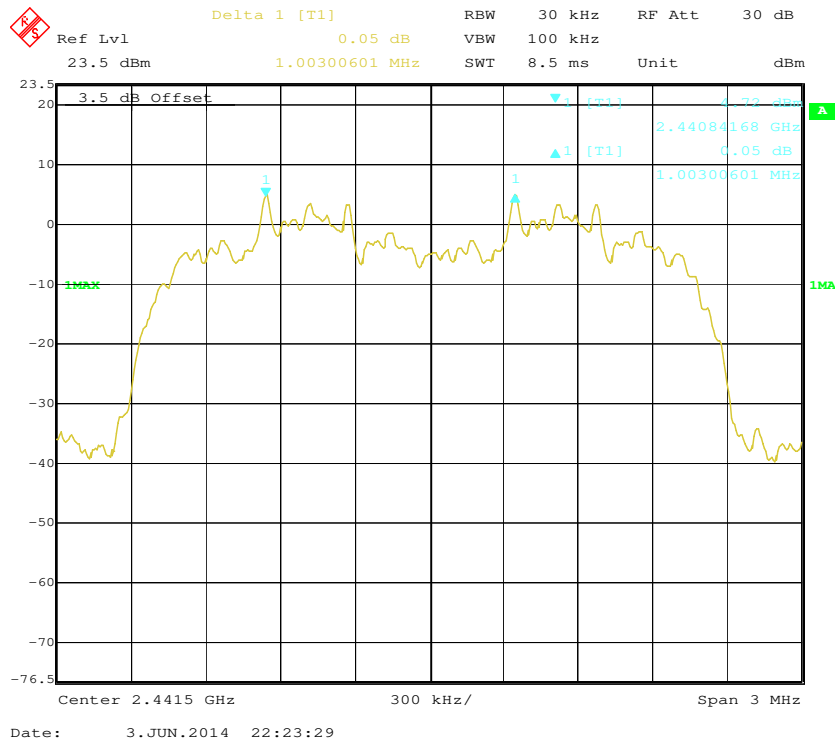
BDR (GFSK): High Channel



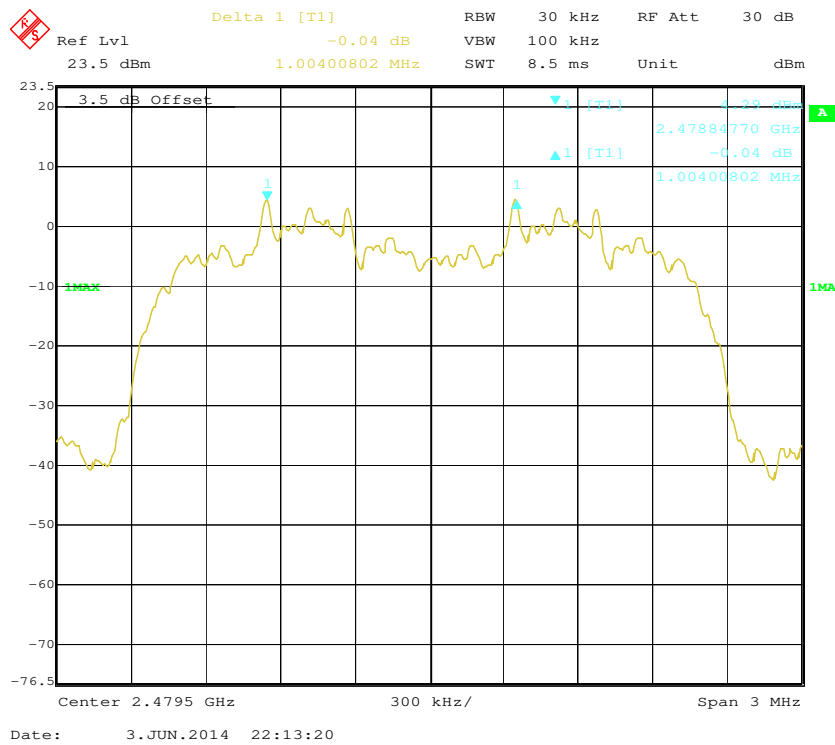
EDR ($\pi/4$ -DQPSK): Low Channel



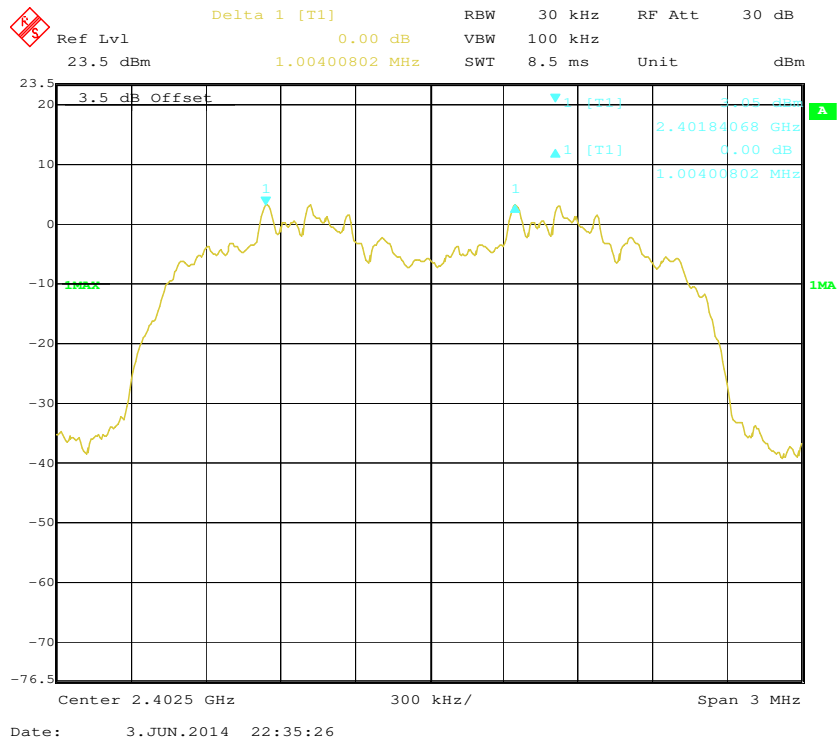
EDR ($\pi/4$ -DQPSK): Middle Channel



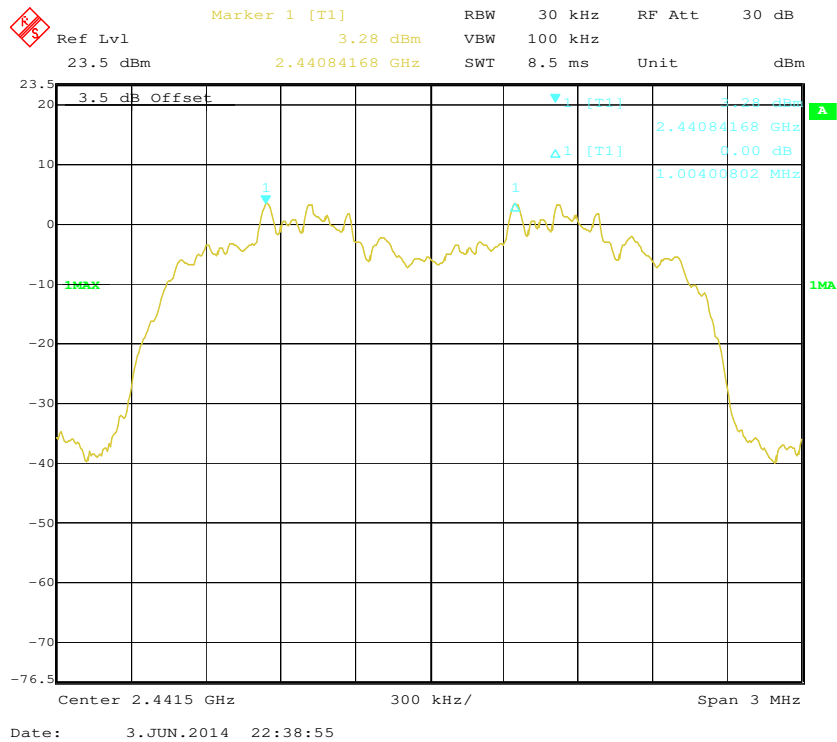
EDR ($\pi/4$ -DQPSK): High Channel



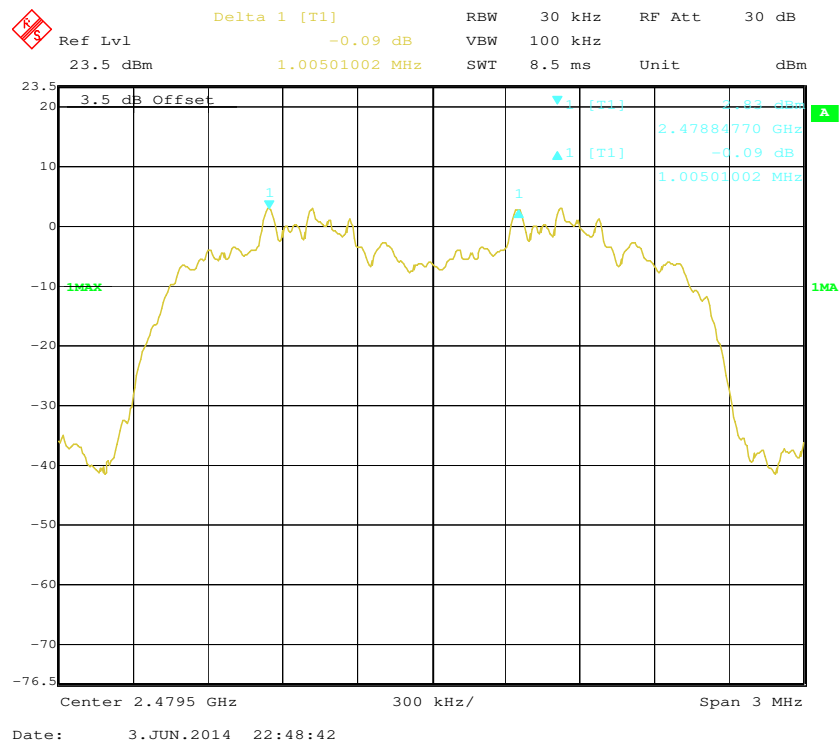
EDR (8DPSK): Low Channel



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	2014-05-31	2015-05-31

* **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 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Mike Hu on 2014-06-03.

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	0.944
	Middle	2441	0.945
	High	2480	0.938
EDR ($\pi/4$ -DQPSK)	Low	2402	1.258
	Middle	2441	1.257
	High	2480	1.256
EDR (8DPSK)	Low	2402	1.275
	Middle	2441	1.276
	High	2480	1.275

Delta 1 [T1]

Ref Lvl -1.35 dB

23.5 dBm 943.88777555 kHz

RBW 30 kHz RF Att 30 dB

VBW 100 kHz

SWT 8.5 ms Unit dBm

3.5 dB Offset

D1 5.5 dBm

D2 -14.5 dBm

1 [T1] -1.35 dBm

2.40159812 GHz

943.88777555 kHz

Center 2.402 GHz 300 kHz/ Span 3 MHz

Date: 3.JUN.2014 21:56:01

Ref Lvl 23.5 dBm Delta 1 [T1] -1.97 dB RBW 30 kHz RF Att 30 dB VBW 100 kHz Unit dBm

3.5 dB Offset

D1 5.71 dBm

D2 -14.29 dBm

3.5 dBm

1 [T1] -1.97 dBm

2.44055812 GHz

944.88977956 kHz

Center 2.441 GHz 300 kHz/ Span 3 MHz

Date: 3.JUN.2014 22:03:36

Ref Lvl 23.5 dBm Delta 1 [T1] -1.71 dB RBW 30 kHz VBW 100 kHz RF Att 30 dB Unit dBm

3.5 dB Offset

D1 5.29 dBm

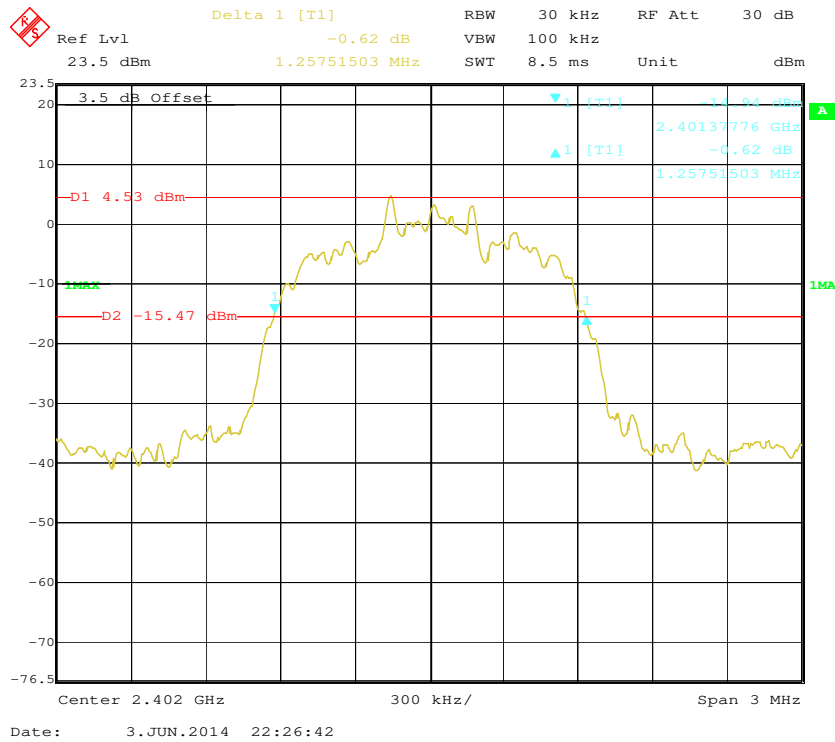
D2 -14.71 dBm

937.87575150 kHz

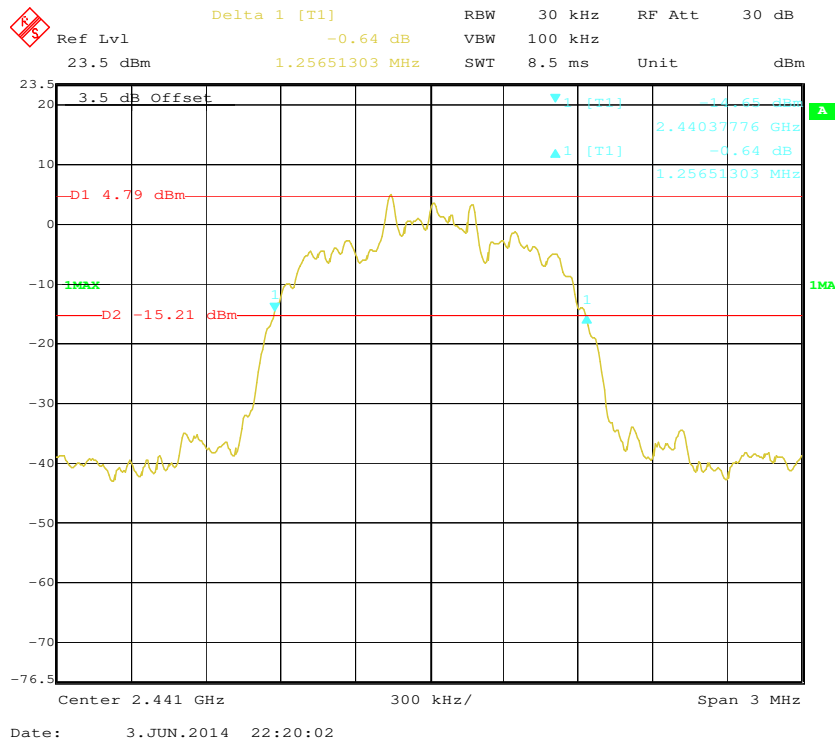
Center 2.48 GHz 300 kHz/ Span 3 MHz

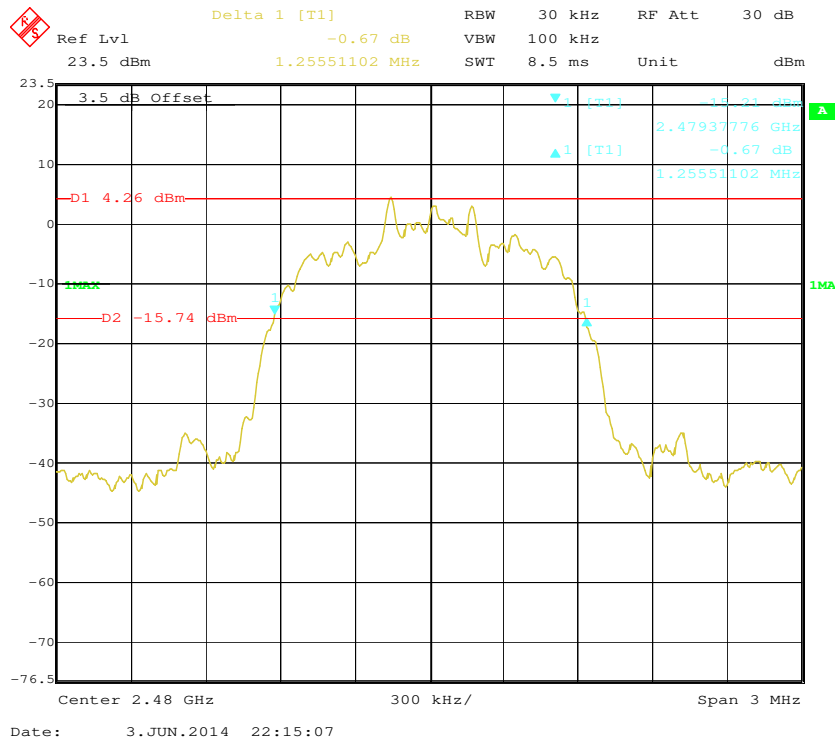
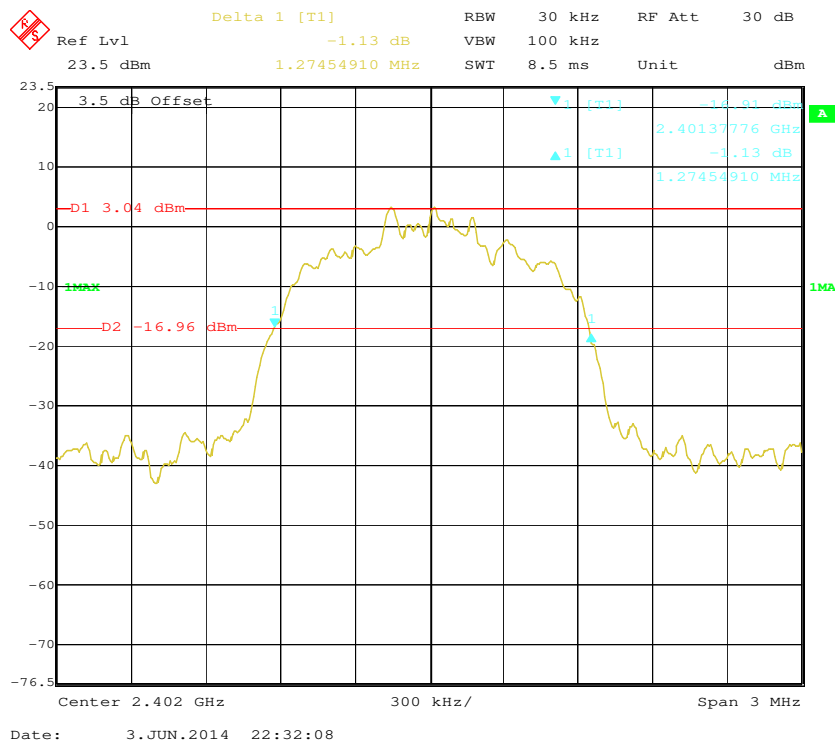
Date: 3.JUN.2014 22:08:00

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



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



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

Delta 1 [T1] -1.35 dB

Ref Lvl 23.5 dBm

RBW 30 kHz RF Att 30 dB

23.5 dBm 1.27555110 MHz

SWT 8.5 ms Unit dBm

3.5 dB Offset

D1 3.27 dBm

D2 -16.73 dBm

2.44037776 GHz -1.35 dB

1.27555110 MHz

Center 2.441 GHz 300 kHz/ Span 3 MHz

Date: 3. JUN. 2014 22:40:43

Delta 1 [T1] -1.53 dB

Ref Lvl 23.5 dBm

23.5 dB Offset

RBW 30 kHz

VBW 100 kHz

RF Att 30 dB

SWT 8.5 ms

Unit dBm

2.47937776 GHz

-1.53 dB

1.27454910 MHz

D1 2.84 dBm

D2 -17.16 dBm

Center 2.48 GHz

300 kHz/

Span 3 MHz

Date: 3. JUN. 2014 22:45:32

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	2014-05-31	2015-05-31

* **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

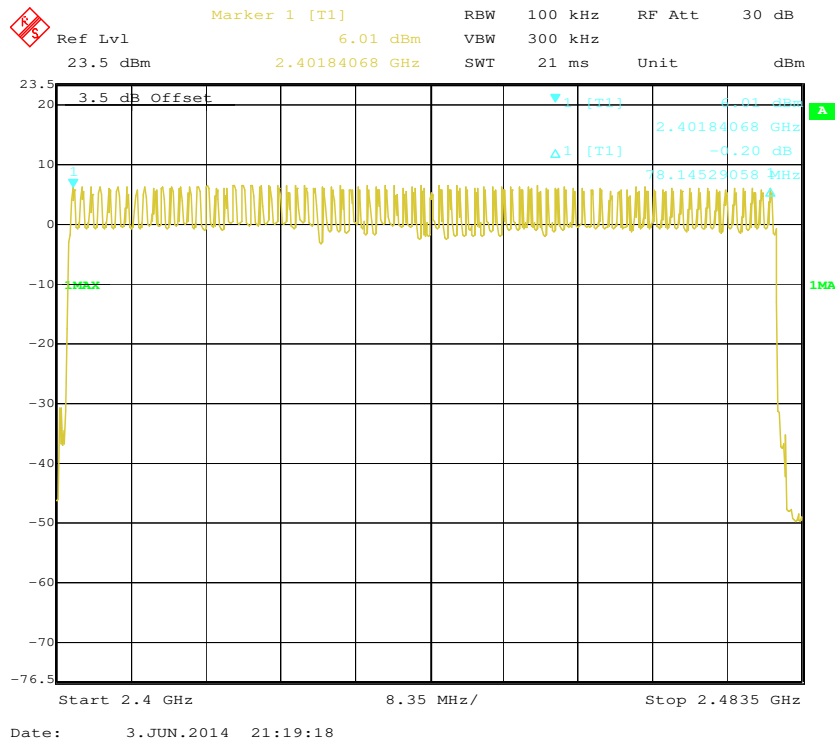
Temperature:	25 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Mike Hu on 2014-06-03

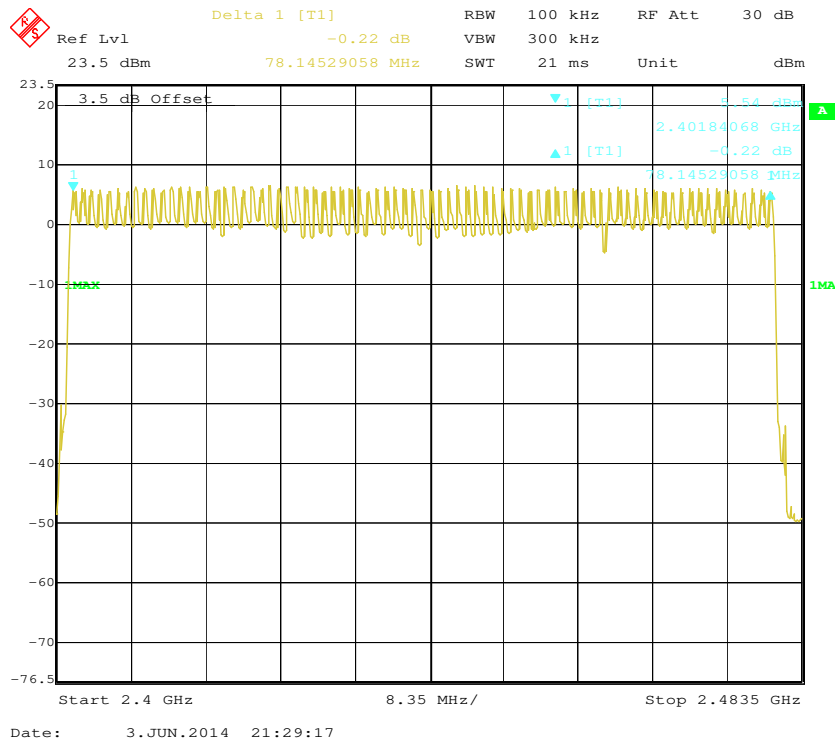
EUT operation mode: Transmitting

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

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	2014-05-31	2015-05-31

* **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 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

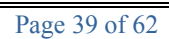
The testing was performed by Mike Hu on 2014-06-03.

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)	DH1	Low	0.400	0.128	0.4	Pass
		Middle	0.400	0.128	0.4	Pass
		High	0.400	0.128	0.4	Pass
		Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH3	Low	1.674	0.268	0.4	Pass
		Middle	1.674	0.268	0.4	Pass
		High	1.674	0.268	0.4	Pass
		Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH5	Low	2.927	0.312	0.4	Pass
		Middle	2.927	0.312	0.4	Pass
		High	2.927	0.312	0.4	Pass
		Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR ($\pi/4$ -DQPSK)	2DH1	Low	0.407	0.130	0.4	Pass
		Middle	0.407	0.130	0.4	Pass
		High	0.407	0.130	0.4	Pass
		Note: 2DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	2DH3	Low	1.674	0.268	0.4	Pass
		Middle	1.674	0.268	0.4	Pass
		High	1.674	0.268	0.4	Pass
		Note: 2DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	2DH5	Low	2.927	0.312	0.4	Pass
		Middle	2.927	0.312	0.4	Pass
		High	2.927	0.312	0.4	Pass
		Note: 2DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR (8DPSK)	3DH1	Low	0.410	0.131	0.4	Pass
		Middle	0.410	0.131	0.4	Pass
		High	0.410	0.131	0.4	Pass
		Note: 3DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	3DH3	Low	1.674	0.268	0.4	Pass
		Middle	1.674	0.268	0.4	Pass
		High	1.674	0.268	0.4	Pass
		Note: 3DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	3DH5	Low	2.927	0.312	0.4	Pass
		Middle	2.927	0.312	0.4	Pass
		High	2.927	0.312	0.4	Pass
		Note: 3DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				

Pulse time, Low Channel, DH1



Keysight

Ref Lvl 23.5 dBm Delta 1 [T1] -2.76 dB RBW 1 MHz RF Att 30 dB

23.5 dBm 399.799599 μ s SWT 700 μ s Unit dBm

3.5 dB Offset

Delta 1 [T1] -2.76 dB

Delta 1 [T1] -25.010020 μ s

Delta 1 [T1] -2.76 dB

Delta 1 [T1] 399.799599 μ s

TR

Center 2.48 GHz 70 μ s/

Date: 3.JUN.2014 21:41:55

Delta 1 [T1] RBW 1 MHz RF Att 30 dB

Ref Lvl -1.63 dB VBW 3 MHz

23.5 dBm 1.674349 ms SWT 3 ms Unit dBm

3.5 dB Offset

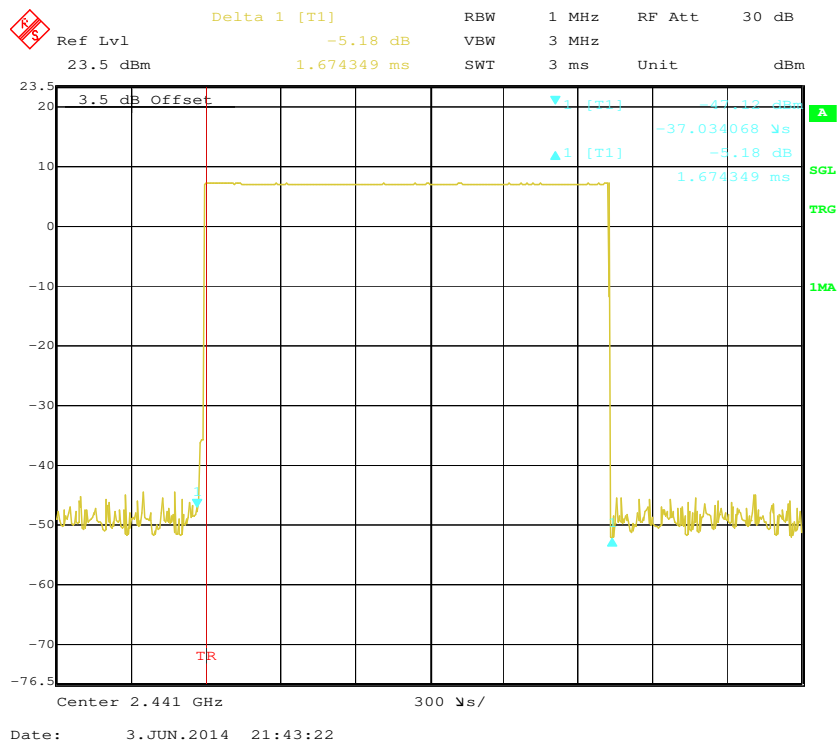
37.034068 μs

1.674349 ms

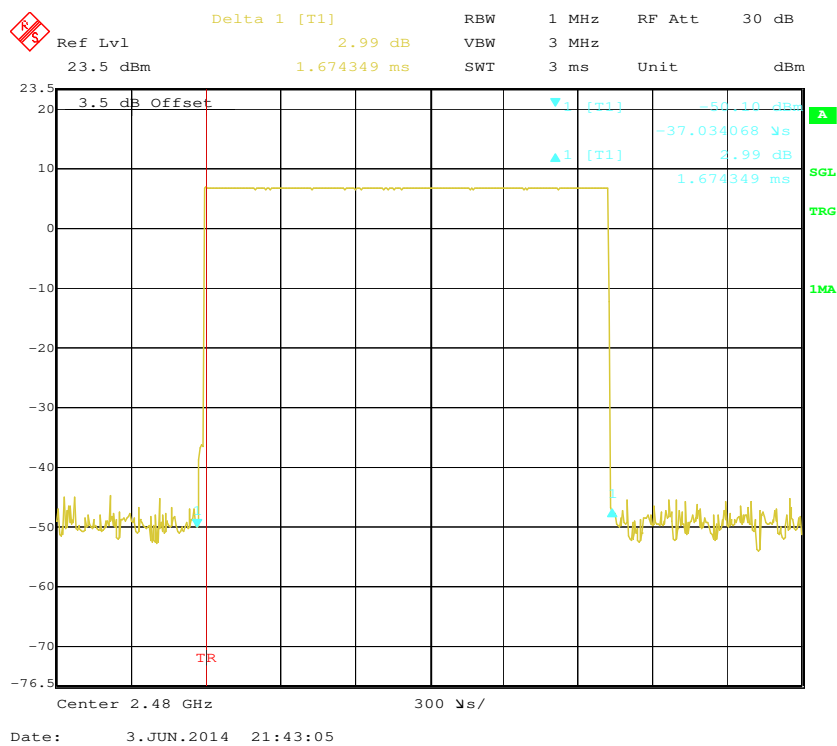
Center 2.402 GHz 300 μs/

Date: 3.JUN.2014 21:43:40

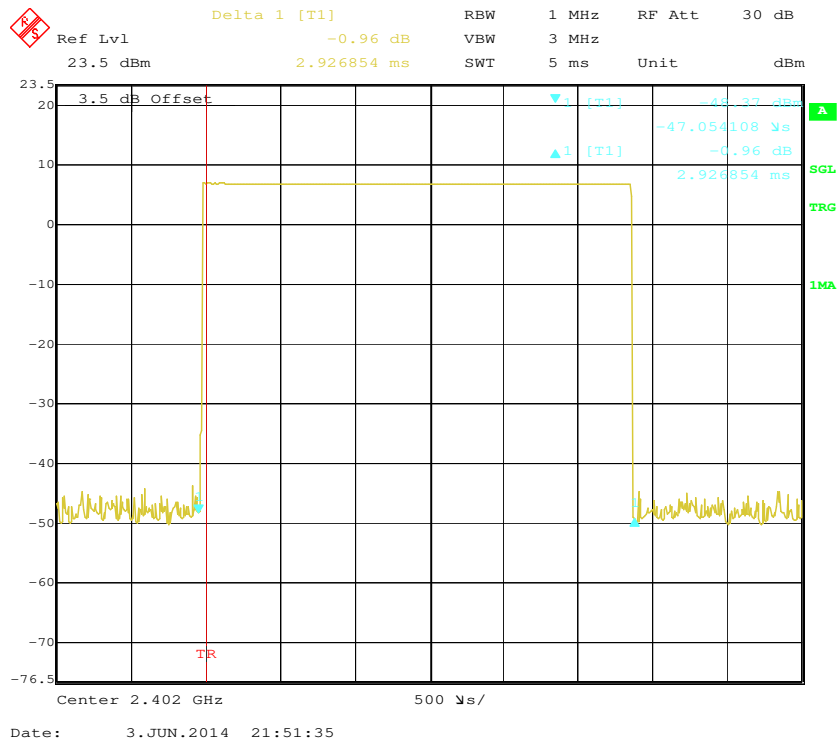
Pulse time, Middle Channel, DH3



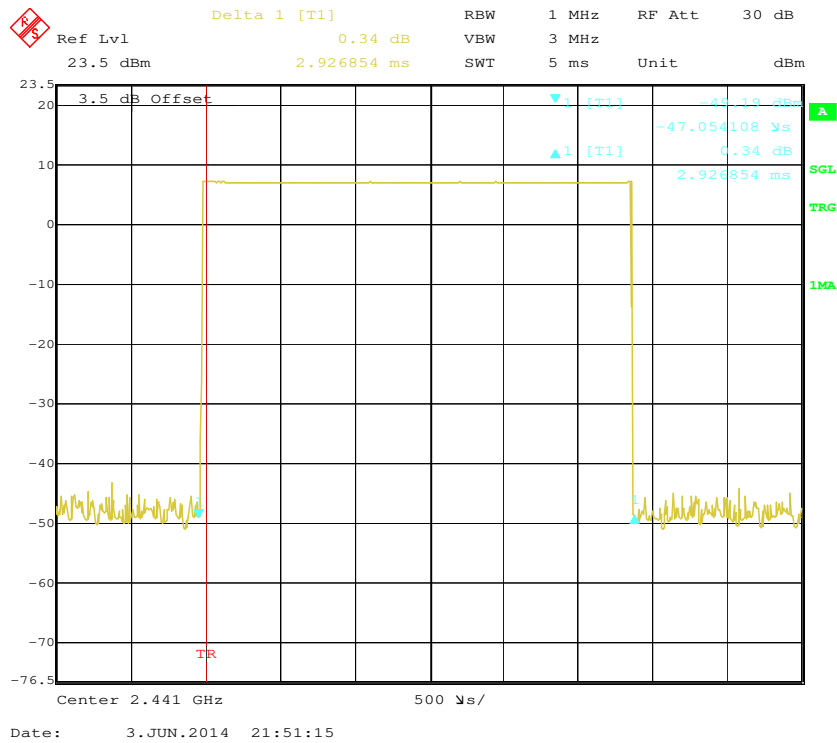
Pulse time, High Channel, DH3



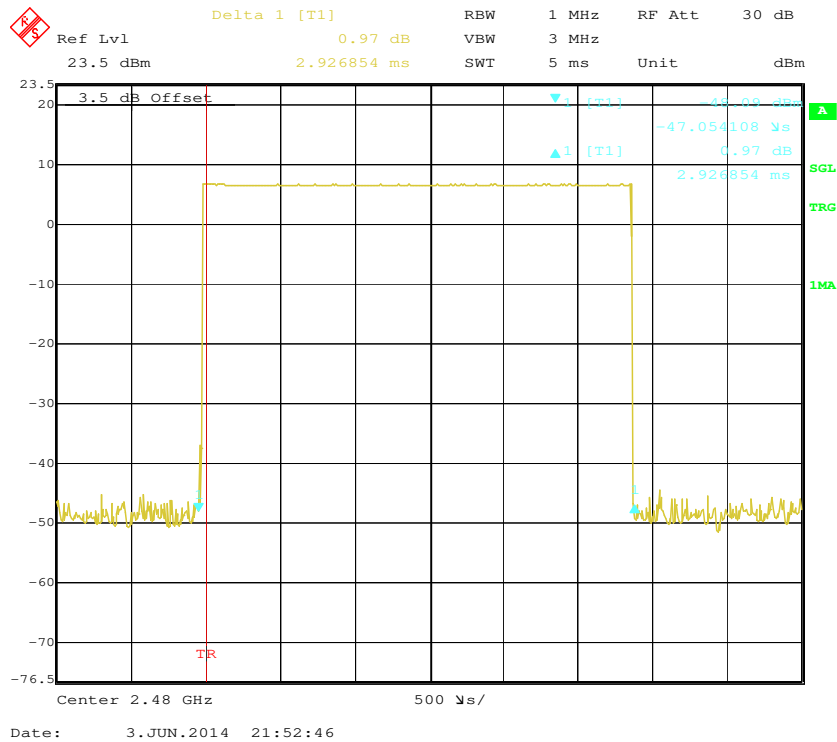
Pulse time, Low Channel, DH5



Pulse time, Middle Channel, DH5

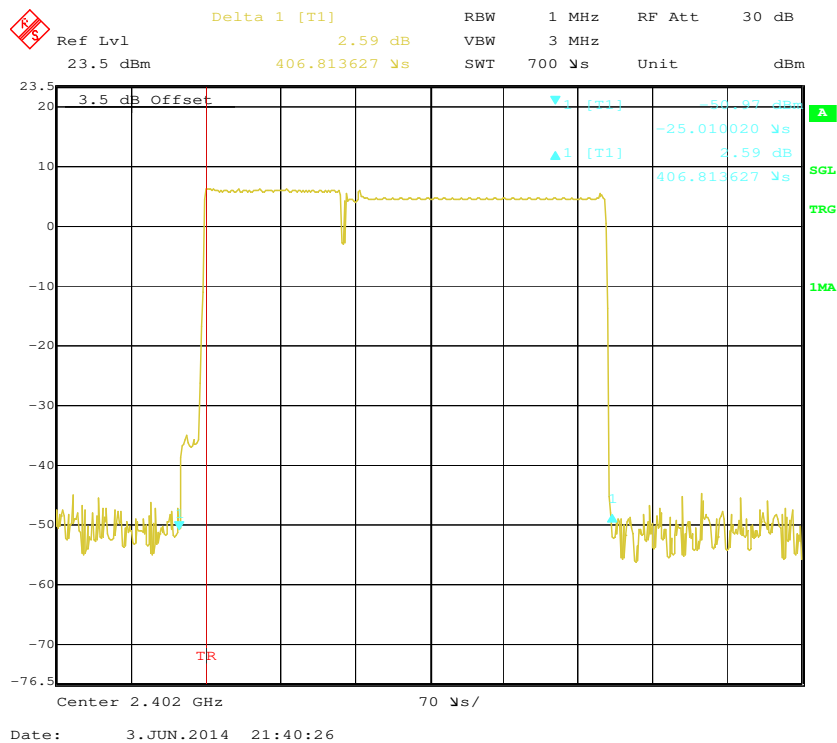


Pulse time, High Channel, DH5



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

Pulse time, Low Channel, 2DH1



Delta 1 [T1] RBW 1 MHz RF Att 30 dB

Ref Lvl -6.34 dB VBW 3 MHz

23.5 dBm 406.813627 μ s SWT 700 μ s Unit dBm

3.5 dB Offset

3.5 dB TR

Center 2.441 GHz 70 μ s/

Date: 3.JUN.2014 21:40:09

Parameters:

- Ref Lvl: 23.5 dBm
- Delta 1 [T1]: -0.84 dB
- RBW: 1 MHz
- VBW: 3 MHz
- RF Att: 30 dB
- SWT: 700 μs
- Unit: dBm

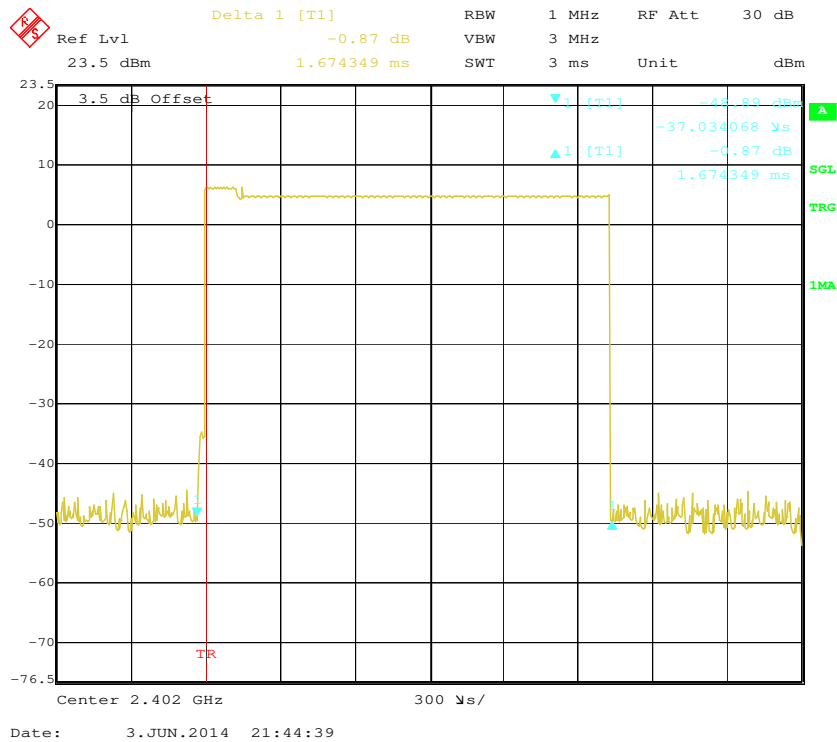
Plot Data:

Measurement	Value
3.5 dB Offset	-51.85 dBm
[T1]	-25.010020 μs
[T1]	-0.84 dB
[T1]	406.813627 μs

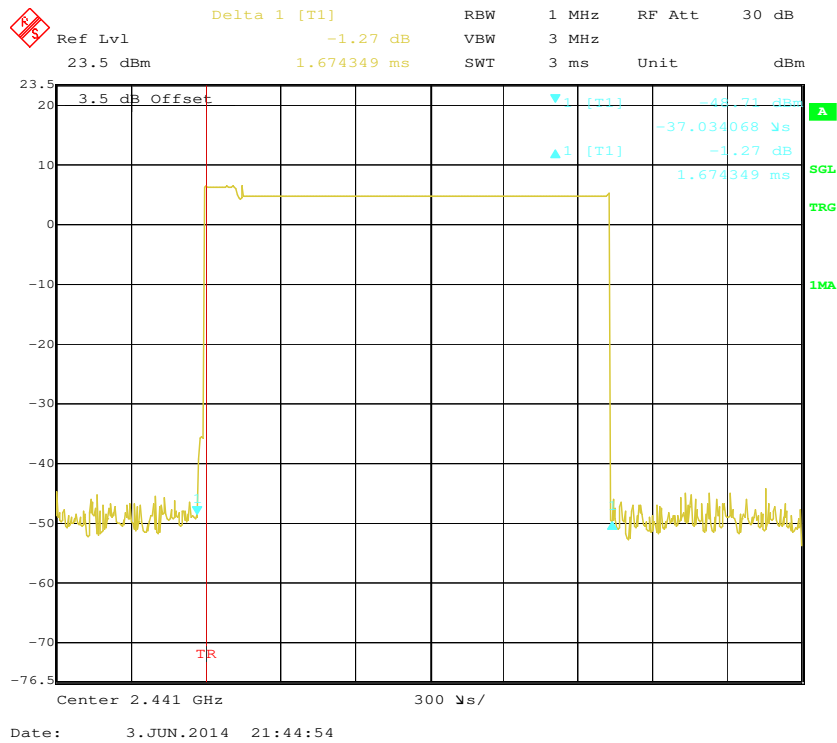
Center Frequency: 2.48 GHz
Scale: 70 μs/

Date: 3.JUN.2014 21:39:56

Pulse time, Low Channel, 2DH3



Pulse time, Middle Channel, 2DH3



Delta 1 [T1] -1.21 dB RBW 1 MHz RF Att 30 dB
 Ref Lvl 23.5 dBm 1.674349 ms VBW 3 MHz Unit dBm
 3.5 dB Offset -44.58 dBm -37.034068 μ s -1.21 dB 1.674349 ms
 TRG SGL TRG 1MA
 Center 2.48 GHz 300 μ s/

Ref Lvl 23.5 dBm

Delta 1 [T1] 0.39 dB

RBW 1 MHz

RF Att 30 dB

VBW 3 MHz

Unit dBm

SWT 5 ms

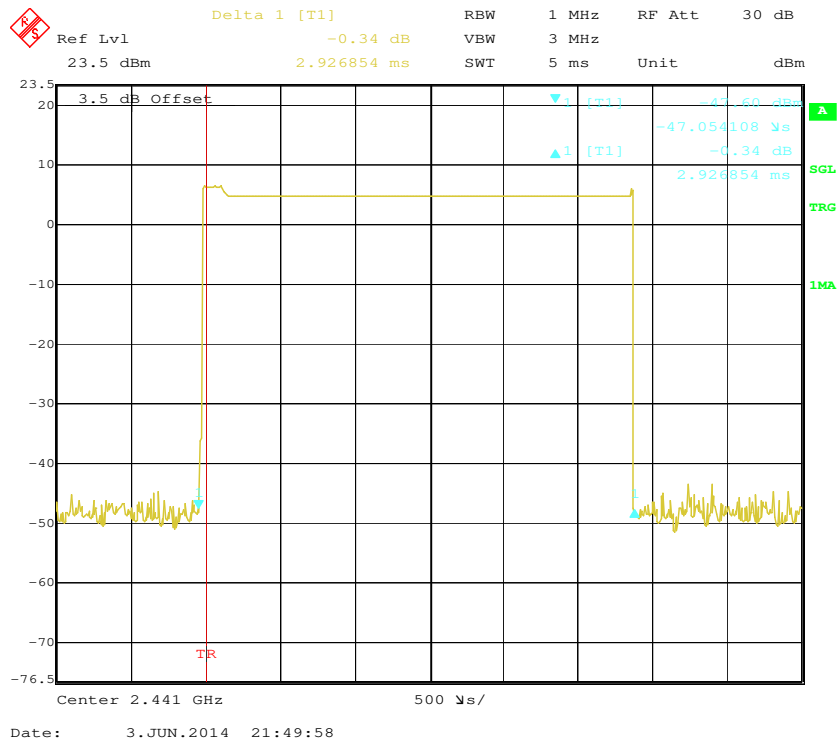
3.5 dB Offset

TR

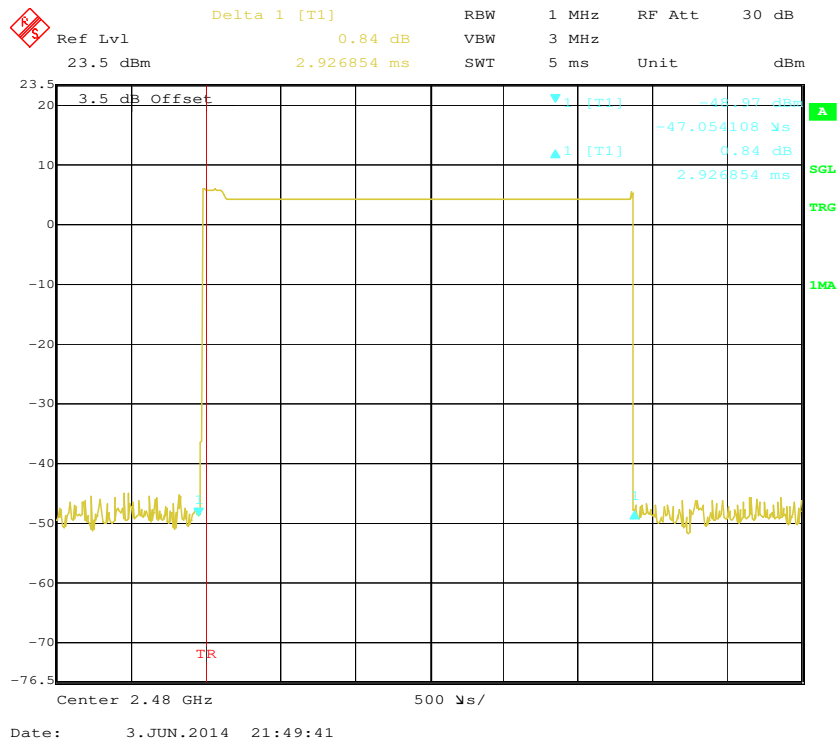
Center 2.402 GHz

500 μs/

Pulse time, Middle Channel, 2DH5

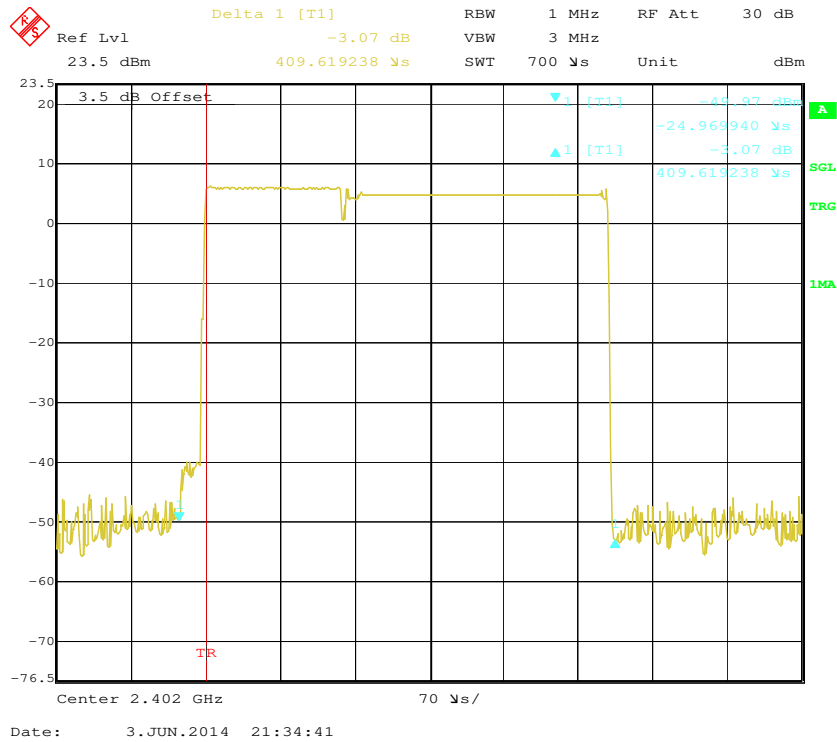


Pulse time, High Channel, 2DH5

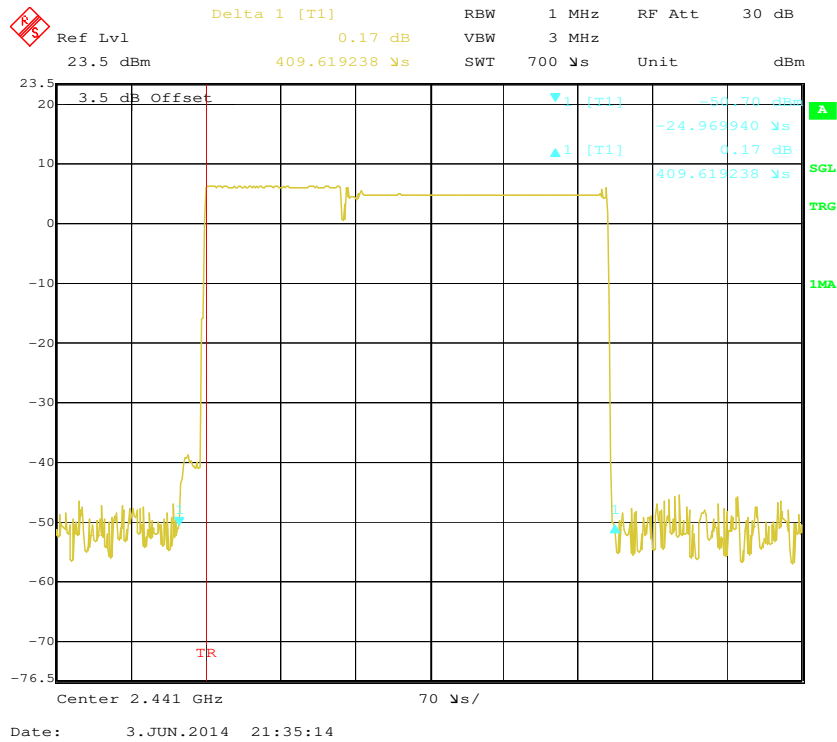


EDR (8DPSK):

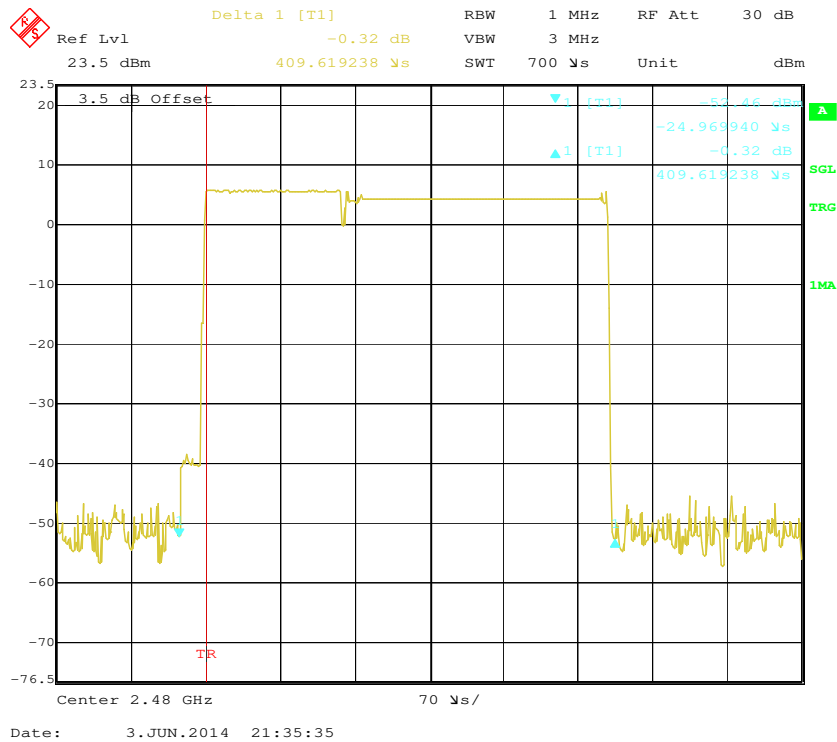
Pulse time, Low Channel, 3DH1



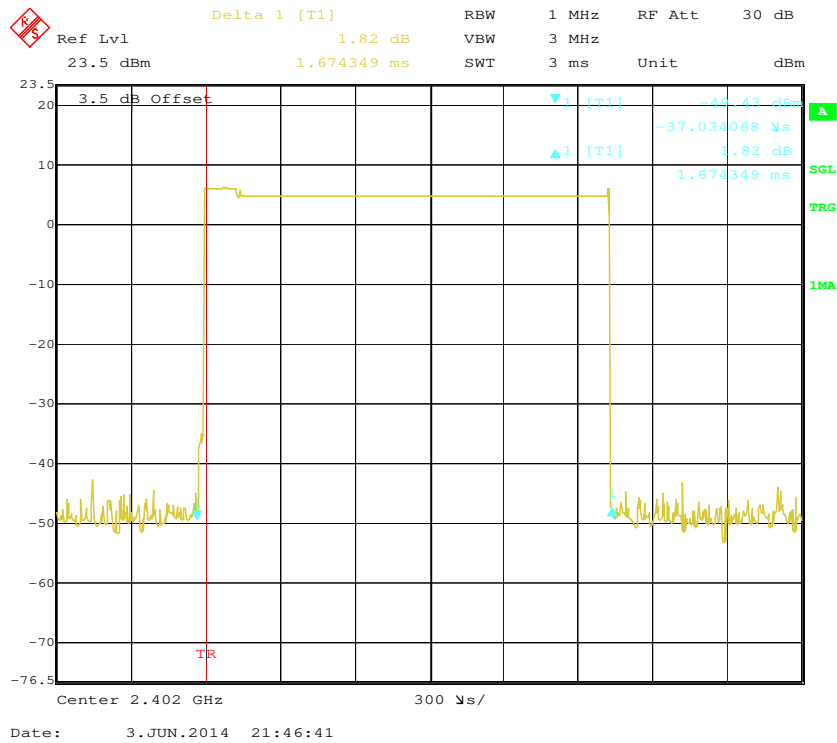
Pulse time, Middle Channel, 3DH1



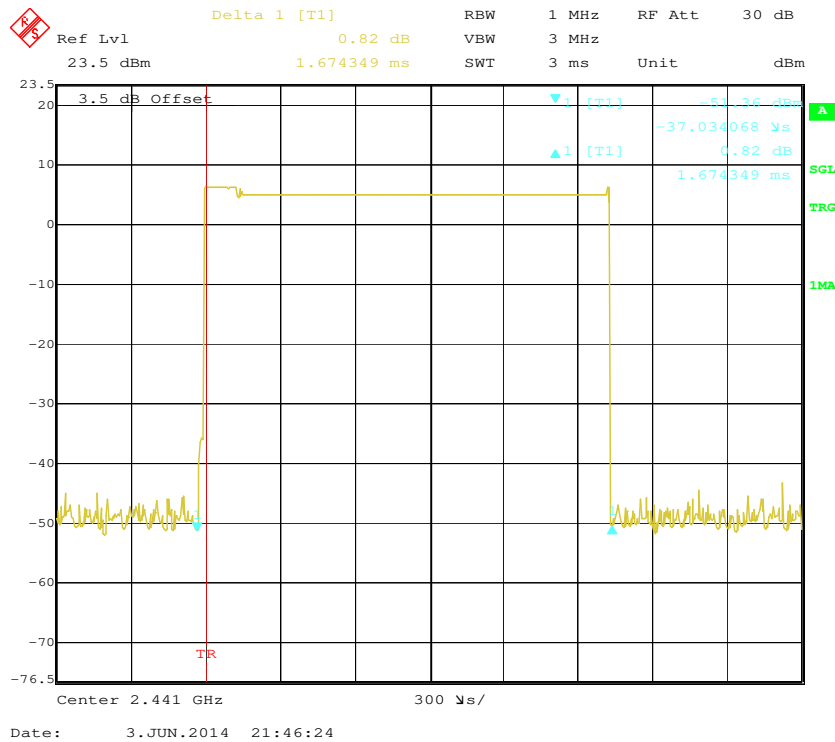
Pulse time, High Channel, 3DH1



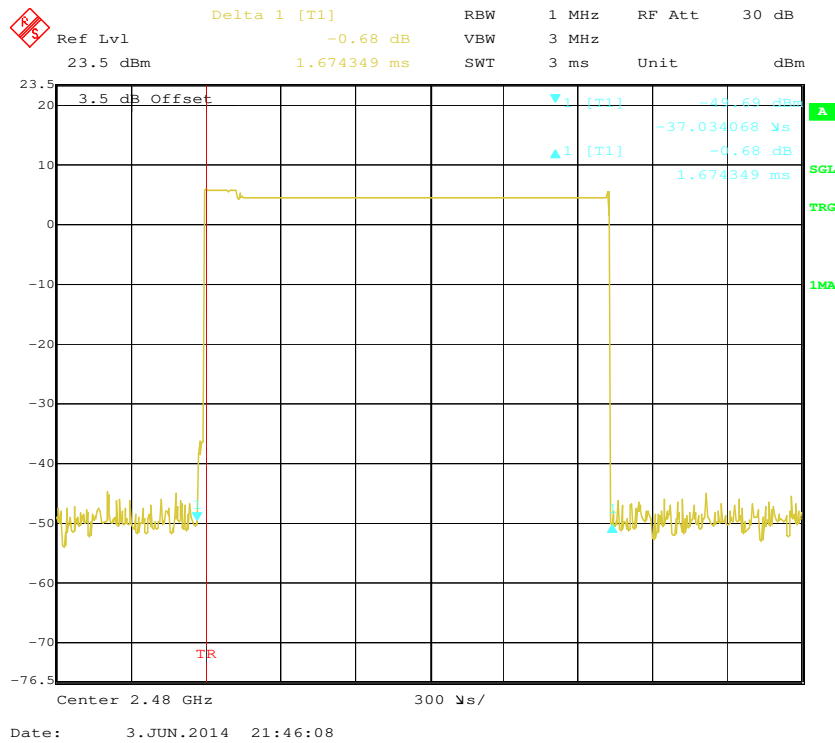
Pulse time, Low Channel, 3DH3



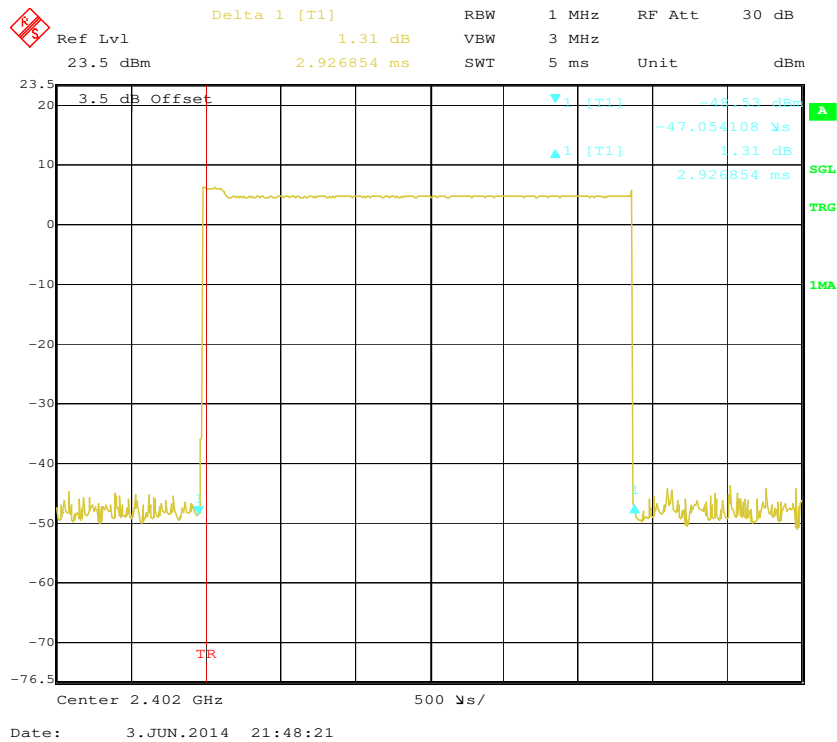
Pulse time, Middle Channel, 3DH3



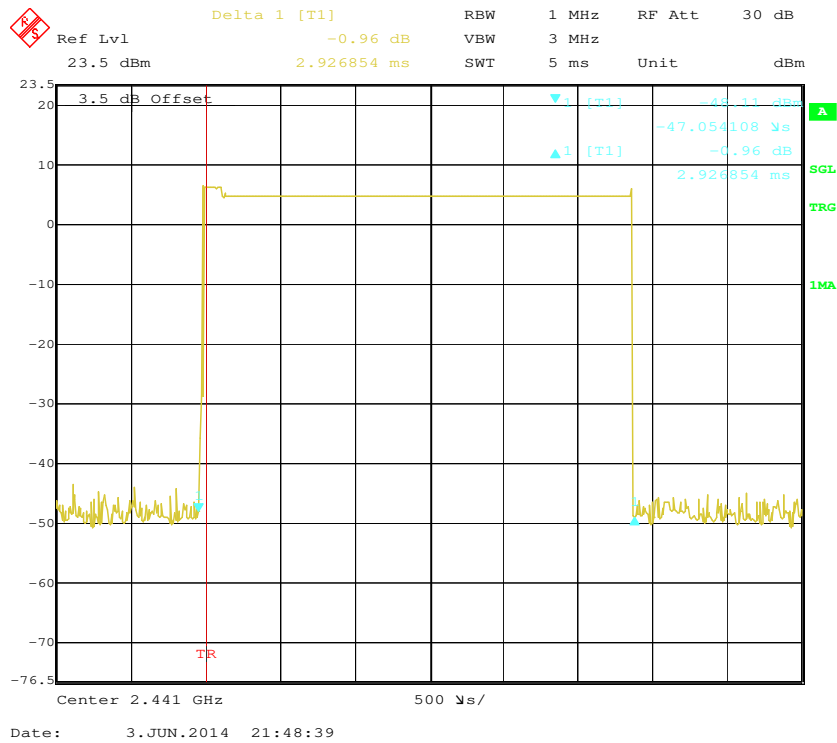
Pulse time, High Channel, 3DH3



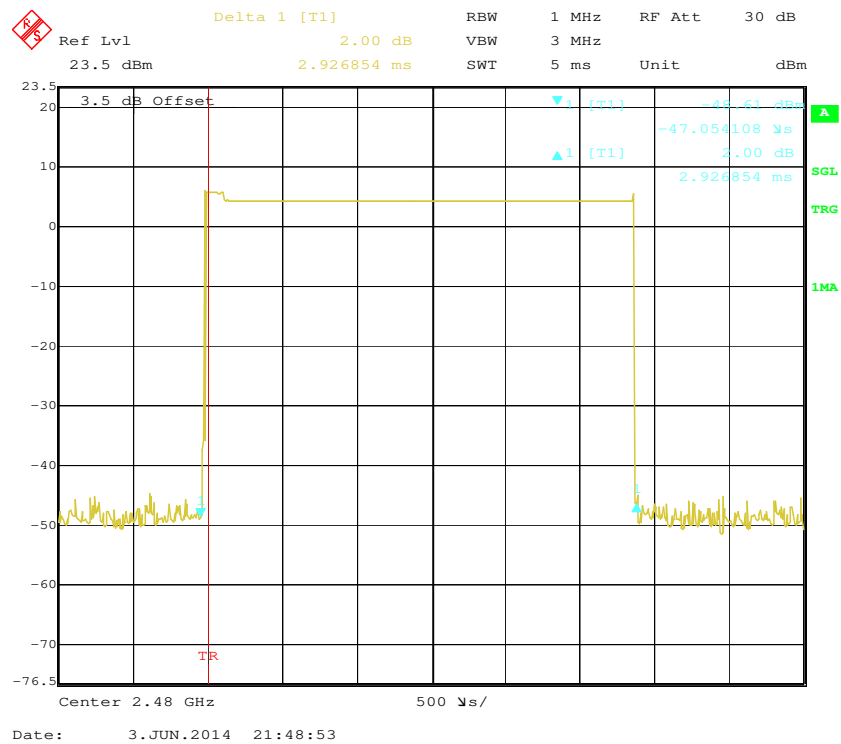
Pulse time, Low Channel, 3DH5



Pulse time, Middle Channel, 3DH5



Pulse time, High Channel, 3DH5



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	2014-05-31	2015-05-31

* **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**

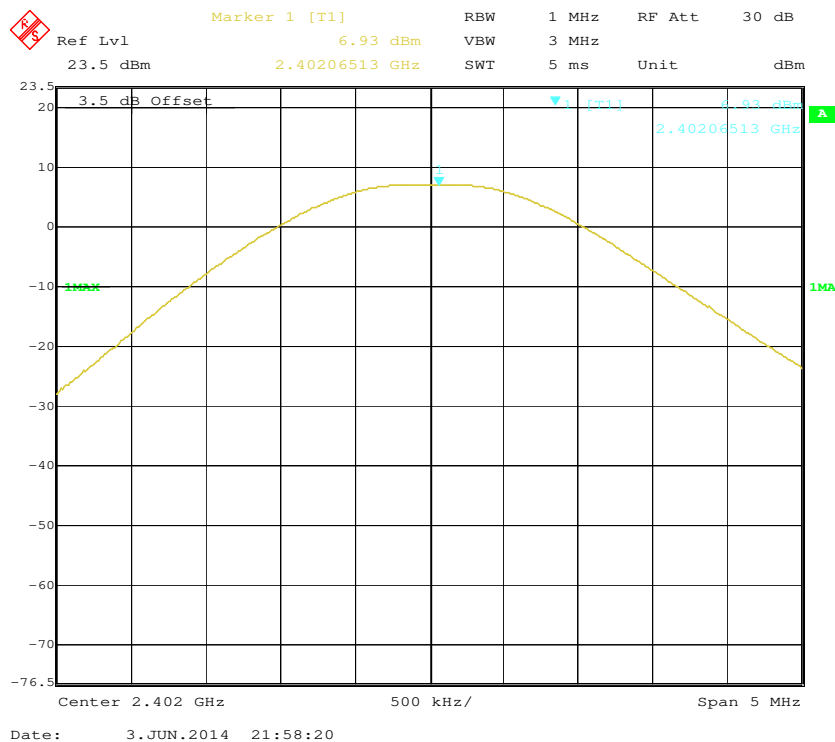
Temperature:	25 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Mike Hu on 2014-06-03.

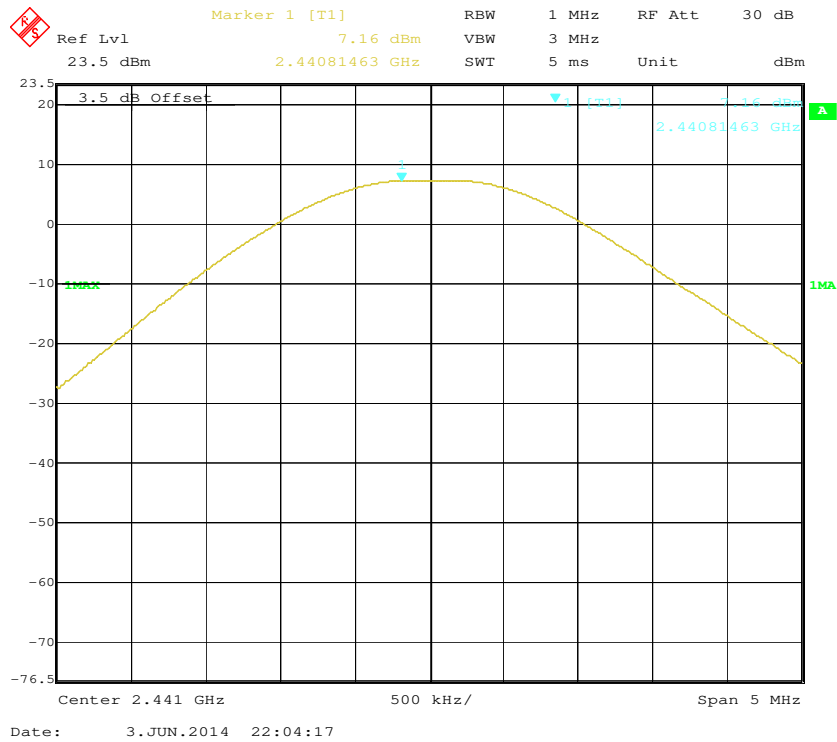
EUT operation mode: Transmitting

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

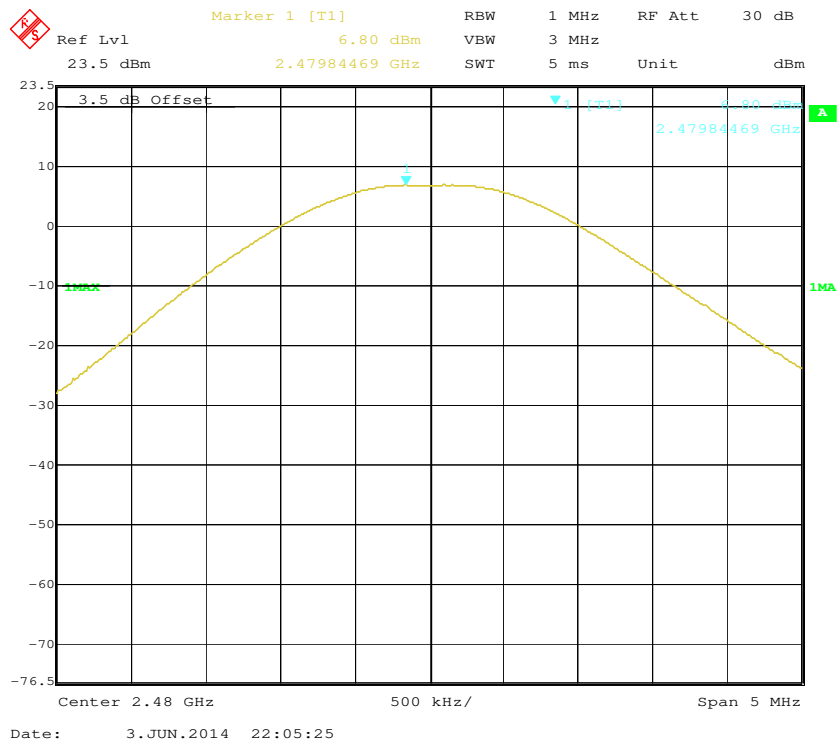
Mode	Channel	Frequency (MHz)	Conducted Output Power		Limit (mW)
			(dBm)	(mW)	
BDR (GFSK)	Low	2402	6.93	4.93	1000
	Middle	2441	7.16	5.20	1000
	High	2480	6.80	4.79	1000
EDR ($\pi/4$-DQPSK)	Low	2402	6.78	4.76	1000
	Middle	2441	7.11	5.14	1000
	High	2480	6.66	4.63	1000
EDR (8DPSK)	Low	2402	7.03	5.05	1000
	Middle	2441	7.29	5.36	1000
	High	2480	6.92	4.92	1000

BDR (GFSK): Low Channel

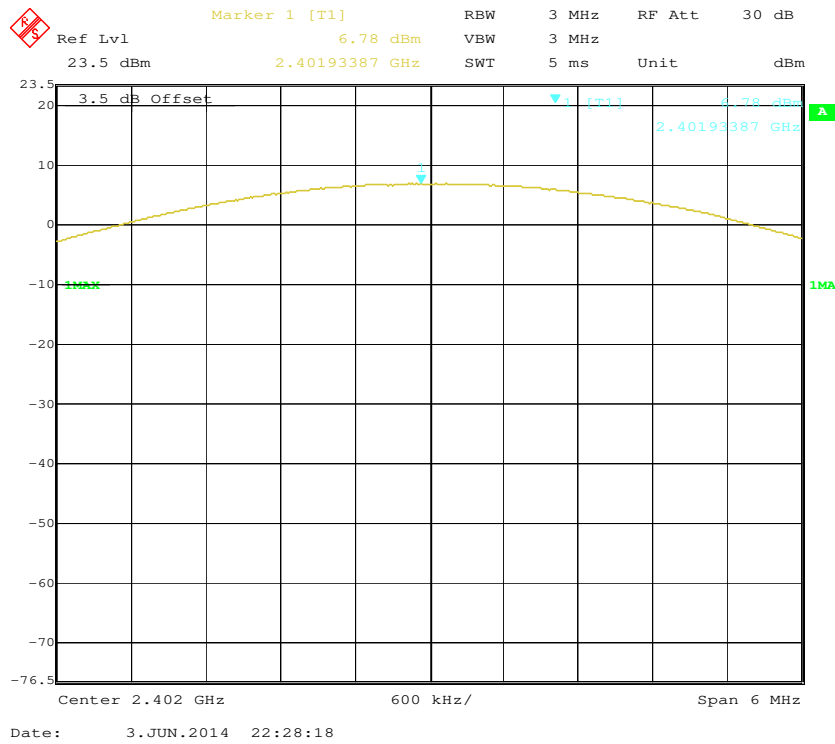
BDR (GFSK): Middle Channel



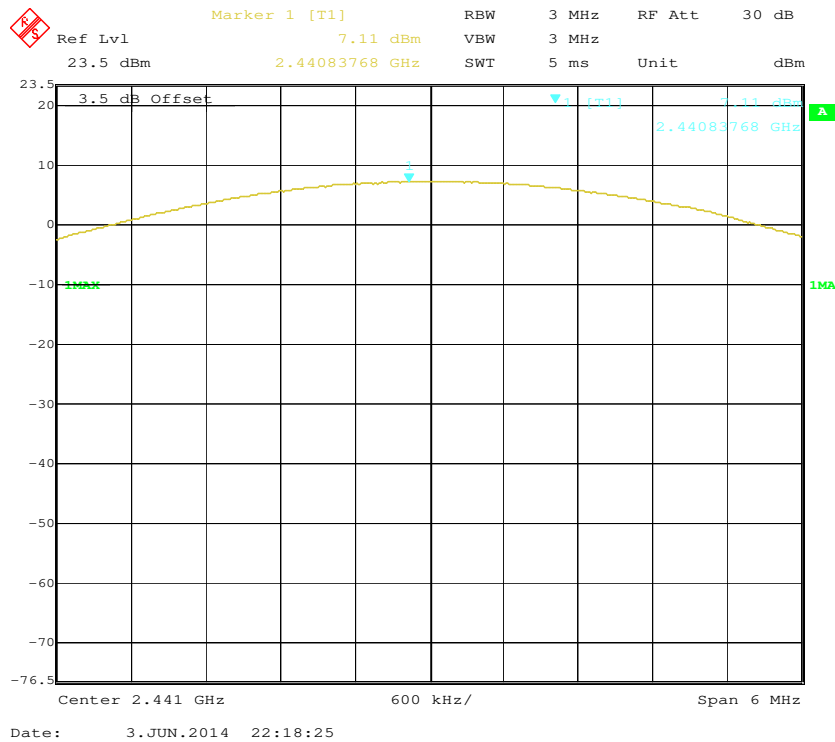
BDR (GFSK): High Channel



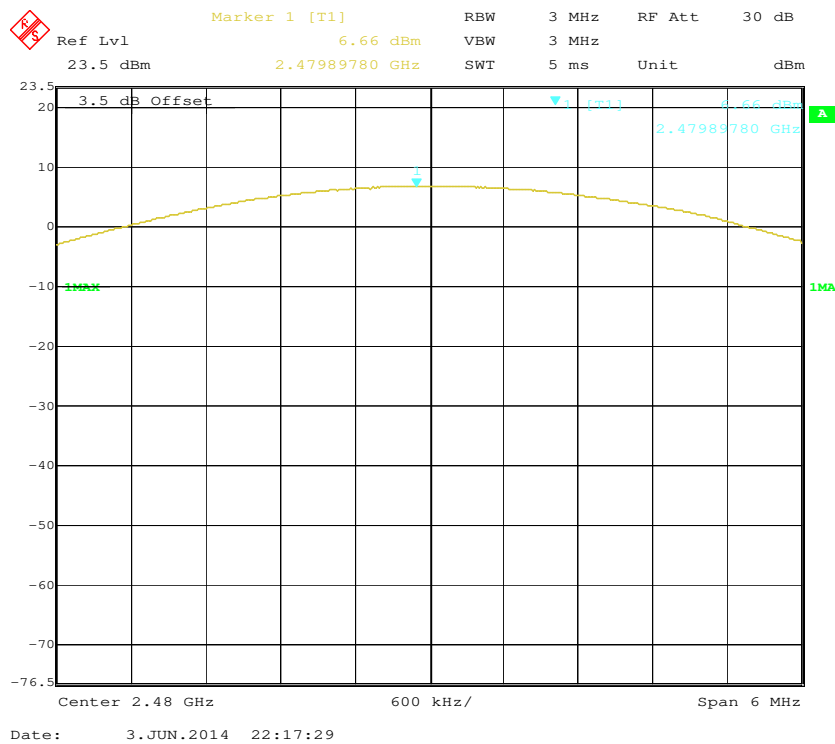
EDR($\pi/4$ -DQPSK): Low Channel



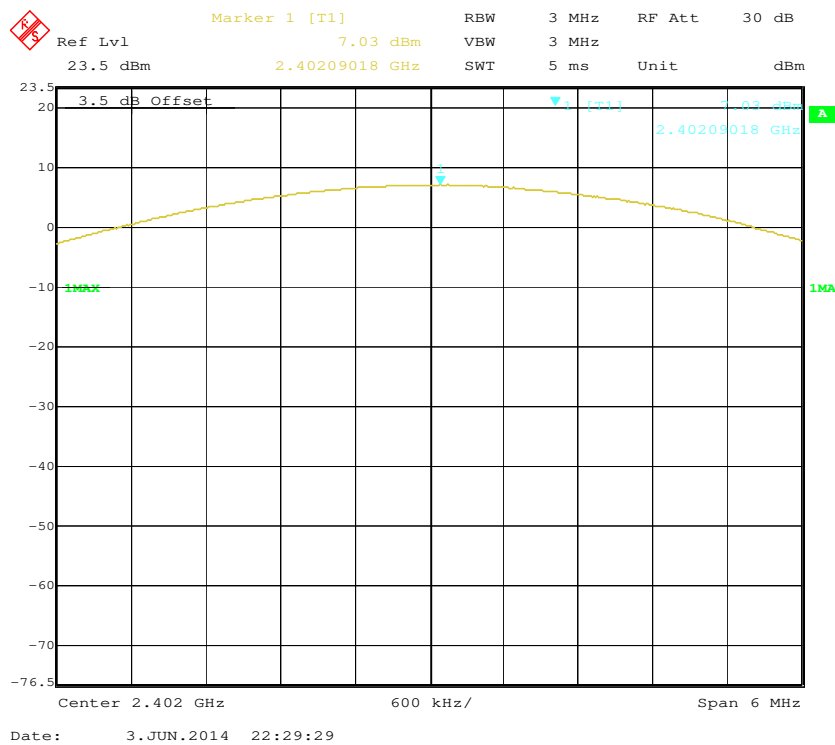
EDR($\pi/4$ -DQPSK): Middle Channel



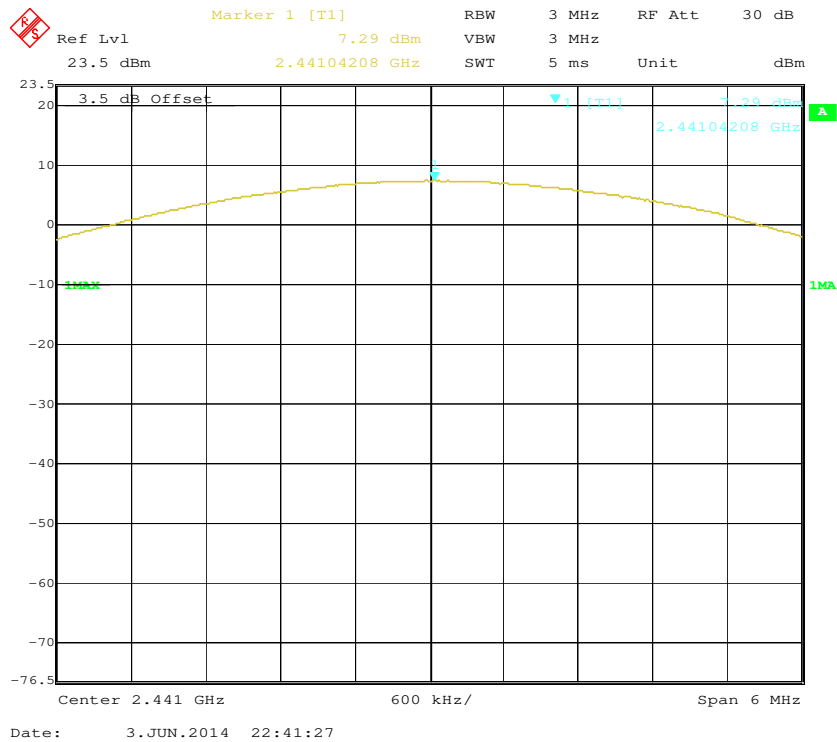
EDR($\pi/4$ -DQPSK): High Channel



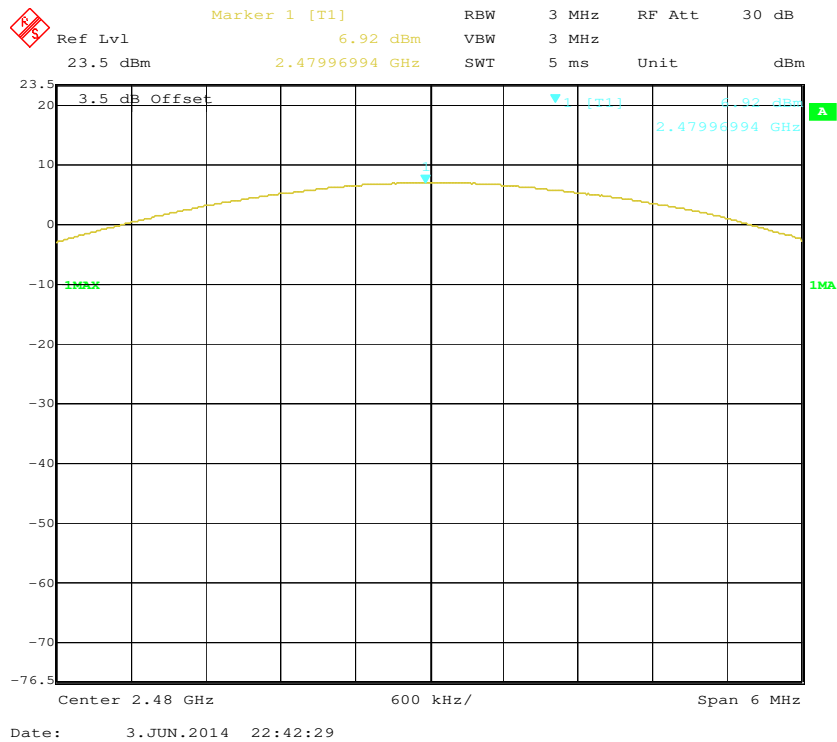
EDR(8DPSK): Low Channel



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	2014-05-31	2015-05-31

* **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

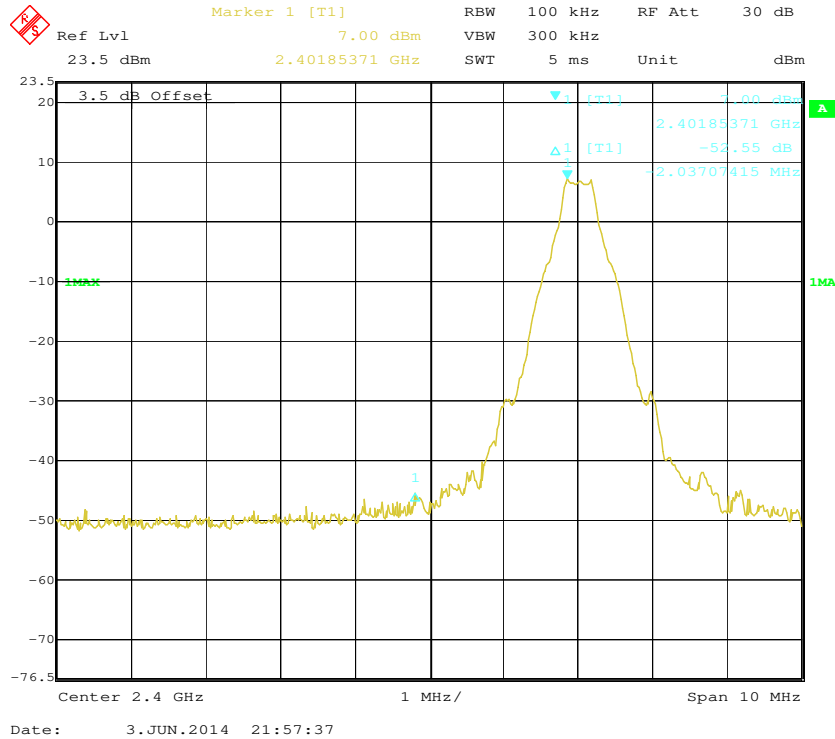
Temperature:	25 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Mike Hu on 2014-06-03.

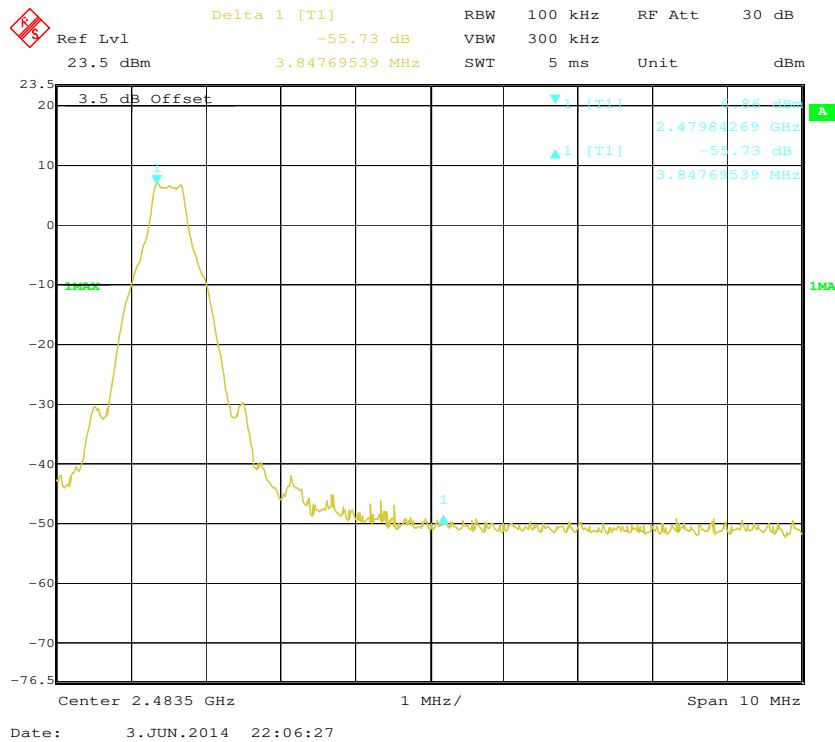
EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following plots.

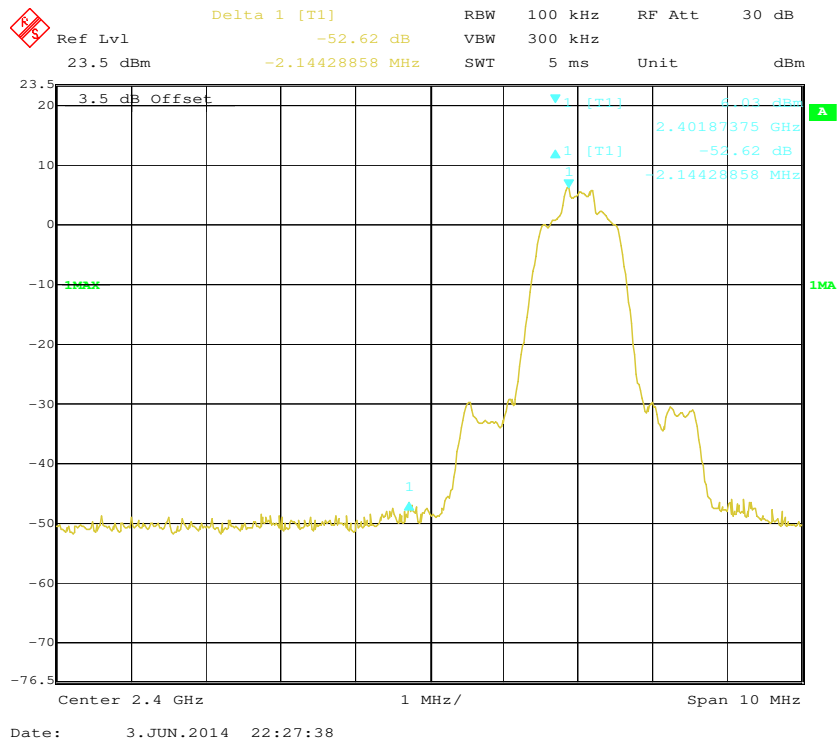
BDR (GFSK): Band Edge-Left Side



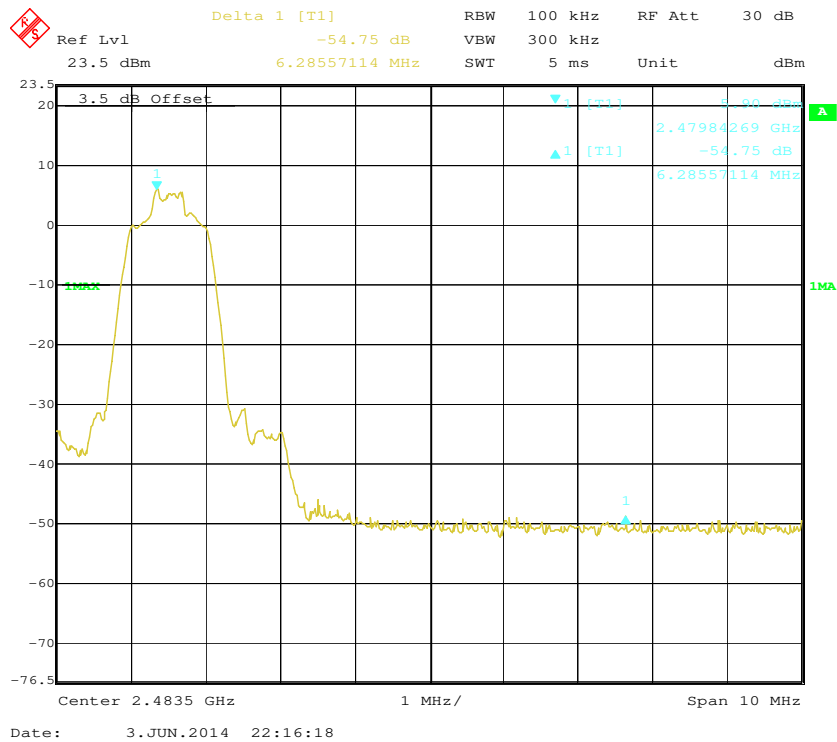
BDR (GFSK): Band Edge-Right Side



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



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



Ref Lvl 23.5 dBm Delta 1 [T1] -52.43 dB RBW 100 kHz RF Att 30 dB
 23.5 dBm -2.06412826 MHz SWT 5 ms Unit dBm

3.5 dB Offset

1 [T1] 2.40185371 GHz -52.43 dB -2.06412826 MHz

Center 2.4 GHz 1 MHz/ Span 10 MHz

Date: 3. JUN. 2014 22:30:48

Ref Lvl 23.5 dBm
 Marker 1 [T1] 5.87 dBm
 RBW 100 kHz
 VBW 300 kHz
 RF Att 30 dB
 2.47984269 GHz
 SWT 5 ms
 Unit dBm

3.5 dB Offset

1 [T1] 5.87 dBm
 2.47984269 GHz
 -53.26 dB
 3.78757515 MHz

Center 2.4835 GHz
 1 MHz/
 Span 10 MHz

Date: 3. JUN. 2014 22:43:59

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