

FCC PART 15.247 TEST REPORT

For

DDM Brands LLC

1616 NW, 84TH Ave. Miami, Florida, U.S.A

FCC ID: A4JANDY35E2I

Report Type: Original Report	Product Type: 3G mobile phone
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Report Number: RSZ141231001-00B	
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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 *DDM Brands LLC*'s product, model number: *A3.5E2I (FCC ID:A4JANDY35E2I)* or the "EUT" in this report was a *3G mobile phone*, which was measured approximately: 111.5 mm (L) × 62.8 mm (W) × 10.7 mm (H), rated with input voltage: DC 3.7 V rechargeable Li-ion battery or DC5.0 V from adapter.

Adapter Information:

Model: YW550US

Input: AC100-240V, 50/60Hz, 0.15A

Output: DC 5.0V, 0.55A

Note: The product, series model A3.5E2I, Andy 3.5E, Andy 3.5E2I, AM35E2I043, Andy C3.5E, Andy C3.5E2I and AC35E2I043 are identical schematics, the model A3.5E2I which was selected for fully testing, they are just different for model number, which was explained in the attached declaration letter.

**All measurement and test data in this report was gathered from production sample serial number: 1412313 (Assigned by Shenzhen BACL). The EUT supplied by the applicant was received on 2014-12-31.*

Objective

This test report is prepared on behalf of *DDM Brands 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: A4JANDY35E2I

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.

Support Equipment List and Details

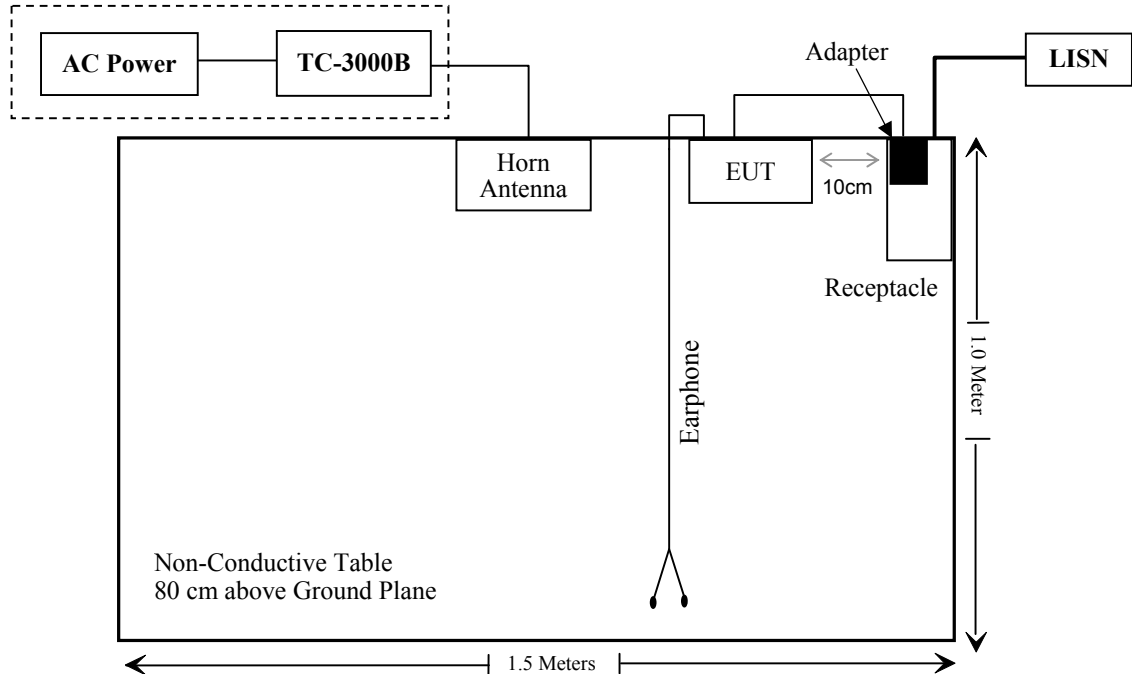
Manufacturer	Description	Model	Serial Number
TESCOM	Bluetooth Tester	TC-3000B	3000B630010

External I/O Cable

Cable Description	Length (m)	From Port	To
Un-shielding Detachable USB Cable	1.1	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.: RSZ141231001-20.

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 0 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:

7.3 dB at 0.498530 MHz in the Line 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.

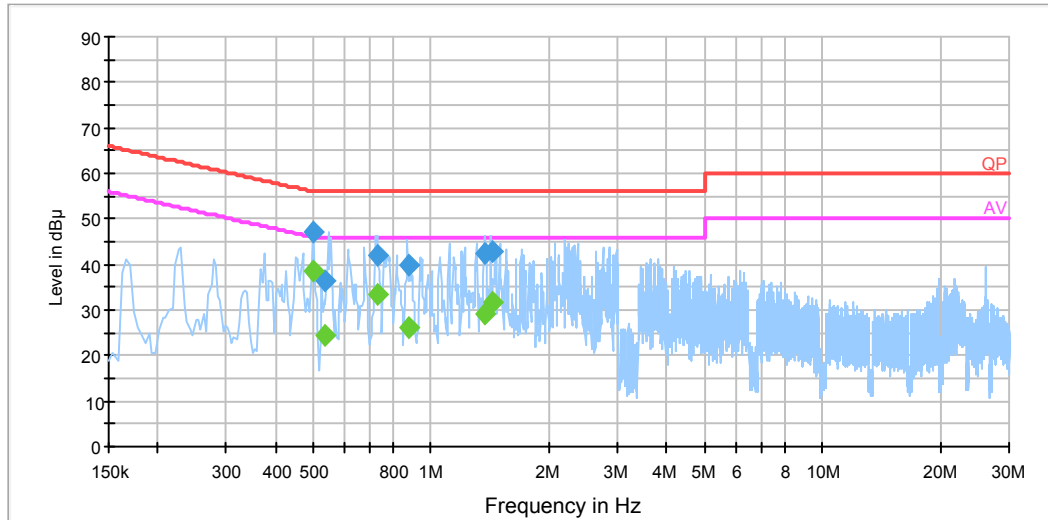
Test Data

Environmental Conditions

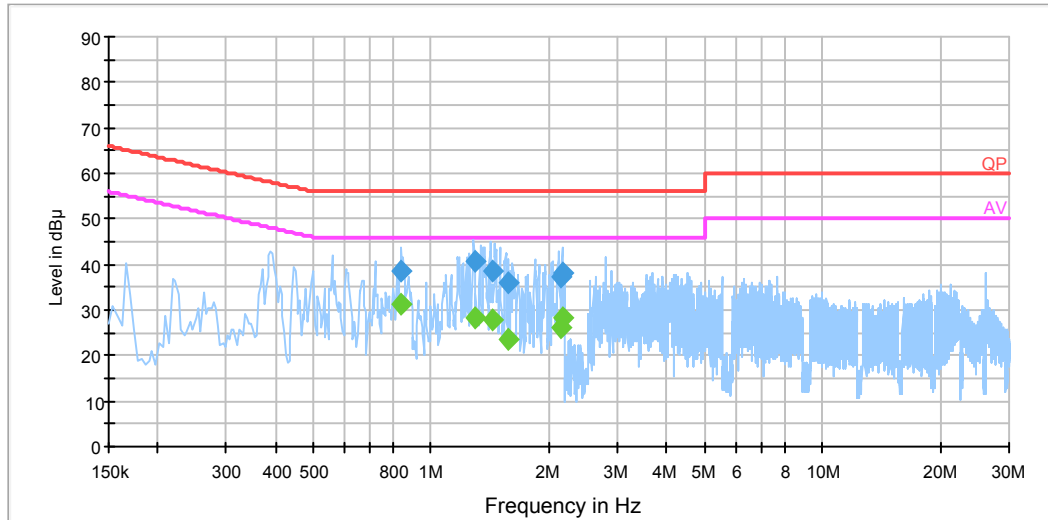
Temperature:	20 °C
Relative Humidity:	51 %
ATM Pressure:	100.5 kPa

The testing was performed by William Li on 2015-01-04.

EUT operation mode: Transmitting/Charging

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)
0.498530	47.2	19.3	56.0	8.8	QP
0.498530	38.7	19.3	46.0	7.3	Ave.
0.537810	36.6	19.3	56.0	19.4	QP
0.537810	24.3	19.3	46.0	21.7	Ave.
0.727110	42.0	19.3	56.0	14.0	QP
0.727110	33.4	19.3	46.0	12.6	Ave.
0.880950	39.8	19.4	56.0	16.2	QP
0.880950	26.3	19.4	46.0	19.7	Ave.
1.377390	42.3	19.4	56.0	13.7	QP
1.377390	29.3	19.4	46.0	16.7	Ave.
1.440670	42.8	19.4	56.0	13.2	QP
1.440670	31.8	19.4	46.0	14.2	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)
0.837370	38.5	19.3	56.0	17.5	QP
0.837370	31.1	19.3	46.0	14.9	Ave.
1.290710	40.7	19.4	56.0	15.3	QP
1.290710	28.3	19.4	46.0	17.7	Ave.
1.428670	38.6	19.4	56.0	17.4	QP
1.428670	27.9	19.4	46.0	18.1	Ave.
1.574630	36.0	19.4	56.0	20.0	QP
1.574630	23.7	19.4	46.0	22.3	Ave.
2.134230	37.1	19.4	56.0	18.9	QP
2.134230	26.3	19.4	46.0	19.7	Ave.
2.165570	38.2	19.4	56.0	17.8	QP
2.165570	28.2	19.4	46.0	17.8	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

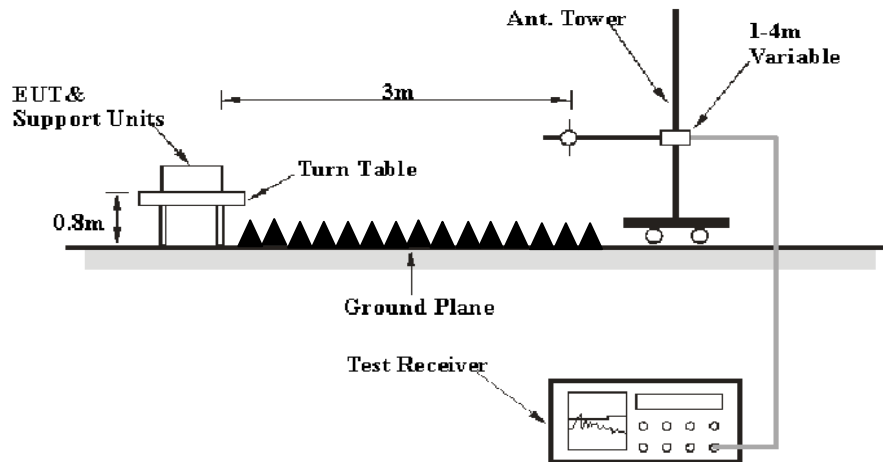
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency 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.

7.85 dB at 4804.00 MHz in the Horizontal polarization for Low 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:	20 °C
Relative Humidity:	51 %
ATM Pressure:	100.5 kPa

The testing was performed by William Li on 2015-01-04.

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)									
479.75	37.59	QP	22	2.3	H	-8.6	28.99	46	17.01
2402.00	94.98	PK	242	1.3	H	4.27	99.25	/	/
2402.00	83.07	Ave.	242	1.3	H	4.27	87.34	/	/
2402.00	93.04	PK	29	1.1	V	4.17	97.21	/	/
2402.00	81.13	Ave.	29	1.1	V	4.17	85.30	/	/
2388.56	35.72	PK	73	1.2	H	4.27	39.99	74	34.01
2388.56	21.43	Ave.	73	1.2	H	4.27	25.70	54	28.30
2497.88	34.52	PK	106	1.2	H	7.99	42.51	74	31.49
2497.88	20.52	Ave.	106	1.2	H	7.99	28.51	54	25.49
3603.00	42.84	PK	50	1.8	H	11.84	54.68	74	19.32
3603.00	26.04	Ave.	50	1.8	H	11.84	37.88	54	16.12
4804.00	35.33	PK	53	2.3	H	24.81	60.14	74	13.86
4804.00	21.34	Ave.	53	2.3	H	24.81	46.15	54	7.85
7206.00	34.63	PK	137	2.2	H	22.28	56.91	74	17.09
7206.00	21.10	Ave.	137	2.2	H	22.28	43.38	54	10.62

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)									
479.75	37.51	QP	173	2.0	H	-8.6	28.91	46	17.09
2441.00	94.61	PK	278	1.6	H	4.27	98.88	/	/
2441.00	82.20	Ave.	278	1.6	H	4.27	86.47	/	/
2441.00	92.59	PK	23	2.0	V	4.17	96.76	/	/
2441.00	81.03	Ave.	23	2.0	V	4.17	85.20	/	/
2325.55	34.98	PK	271	1.6	H	3.93	38.91	74	35.09
2325.55	20.52	Ave.	271	1.6	H	3.93	24.45	54	29.55
2499.77	34.92	PK	86	2.3	H	7.99	42.91	74	31.09
2499.77	21.43	Ave.	86	2.3	H	7.99	29.42	54	24.58
3661.41	39.28	PK	224	1.8	H	11.96	51.24	74	22.76
3661.41	24.03	Ave.	224	1.8	H	11.96	35.99	54	18.01
4882.00	35.99	PK	161	2.4	H	22.71	58.70	74	15.30
4882.00	21.74	Ave.	161	2.4	H	22.71	44.45	54	9.55
7323.00	36.21	PK	295	1.1	H	22.60	58.81	74	15.19
7323.00	20.68	Ave.	295	1.1	H	22.60	43.28	54	10.72
High Channel (2480 MHz)									
479.75	37.63	QP	20	1.7	H	-8.6	29.03	46	16.97
2480.00	93.97	PK	297	1.8	H	7.99	101.96	/	/
2480.00	81.51	Ave.	297	1.8	H	7.99	89.50	/	/
2480.00	92.56	PK	195	1.7	V	7.59	100.15	/	/
2480.00	80.61	Ave.	195	1.7	V	7.59	88.20	/	/
2349.28	34.47	PK	332	1.7	H	3.93	38.40	74	35.60
2349.28	19.50	Ave.	332	1.7	H	3.93	23.43	54	30.57
2483.50	45.98	PK	45	1.4	H	7.99	53.97	74	20.03
2483.50	30.68	Ave.	45	1.4	H	7.99	38.67	54	15.33
3720.52	36.25	PK	213	1.6	H	11.96	48.21	74	25.79
3720.52	20.52	Ave.	213	1.6	H	11.96	32.48	54	21.52
4960.00	35.82	PK	3	2.3	H	22.21	58.03	74	15.97
4960.00	21.48	Ave.	3	2.3	H	22.21	43.69	54	10.31
7440.00	34.83	PK	242	2.2	H	21.54	56.37	74	17.63
7440.00	20.96	Ave.	242	2.2	H	21.54	42.50	54	11.50

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
Agilent	Spectrum Analyzer	8564E	3943A01781	2013-05-09	2016-05-08

* **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:	21 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by William Li on 2015-01-06.

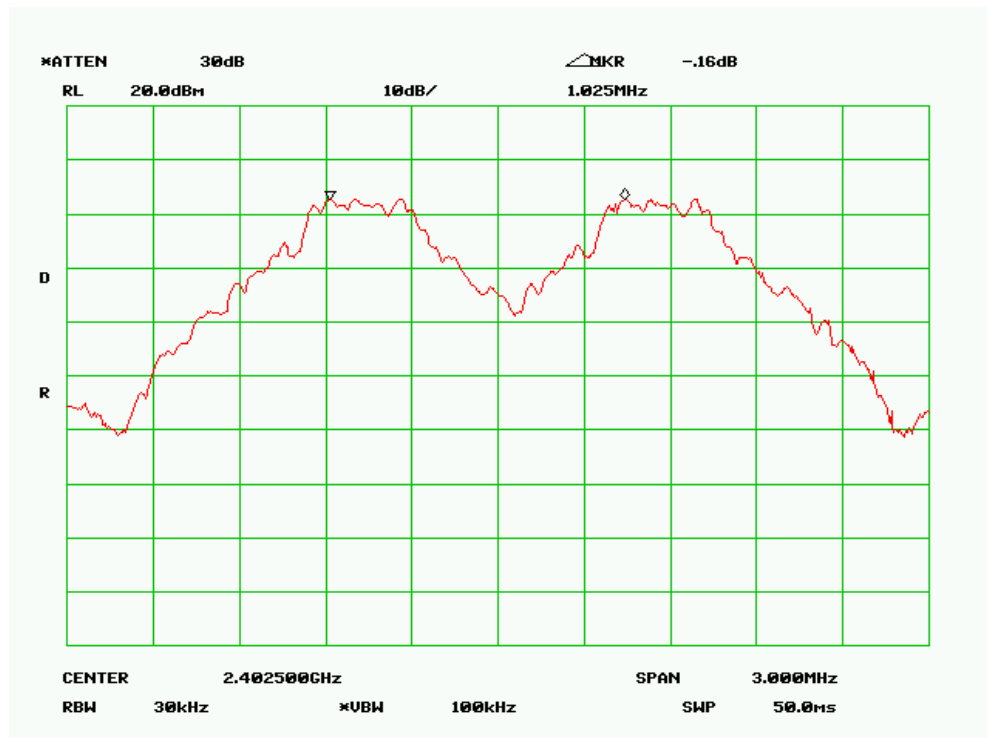
EUT operation mode: Transmitting

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

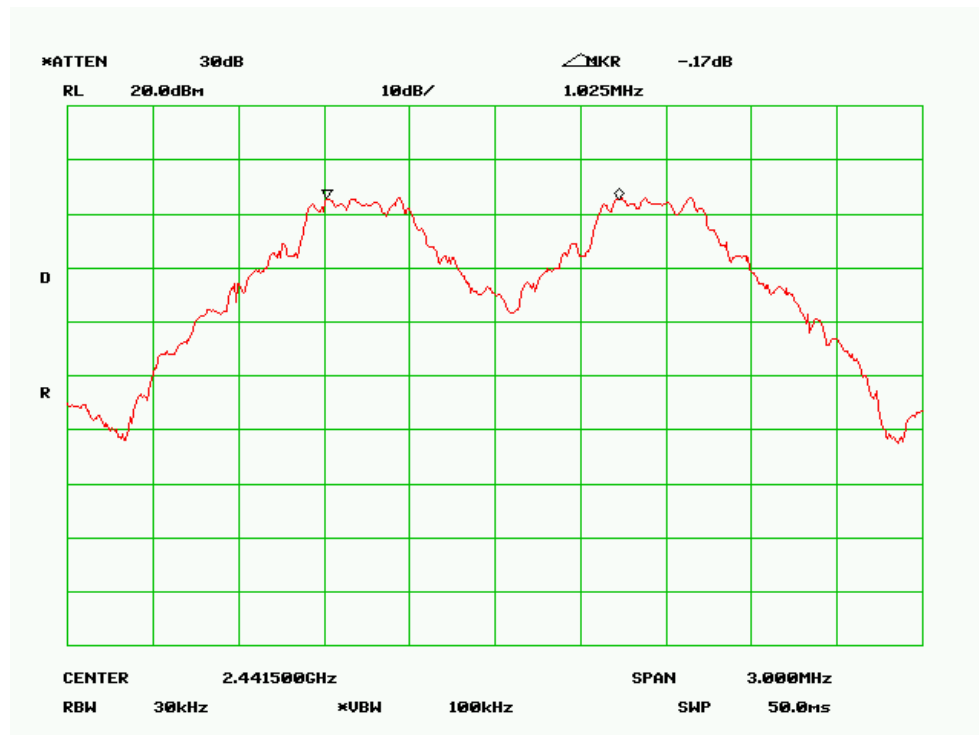
Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	$\geq$ Limit (MHz)	Result
BDR (GFSK)	Low	2402	1.025	0.623	Pass
	Adjacent	2403			
	Middle	2441	1.025	0.657	Pass
	Adjacent	2442			
	High	2480	1.025	0.653	Pass
	Adjacent	2479			
EDR ($\pi/4$-DQPSK)	Low	2402	1.035	0.840	Pass
	Adjacent	2403			
	Middle	2441	1.025	0.893	Pass
	Adjacent	2442			
	High	2480	1.025	0.880	Pass
	Adjacent	2479			
EDR (8DPSK)	Low	2402	1.025	0.857	Pass
	Adjacent	2403			
	Middle	2441	1.030	0.870	Pass
	Adjacent	2442			
	High	2480	1.020	0.867	Pass
	Adjacent	2479			

Note: Limit = 20 dB bandwidth *2/3

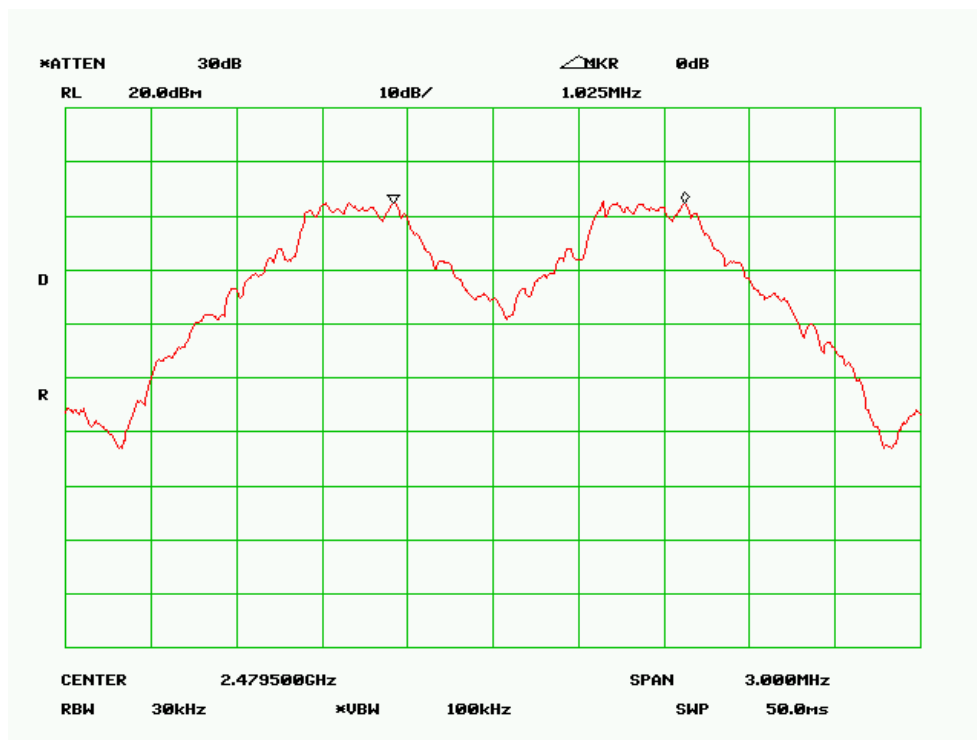
BDR (GFSK): Low Channel



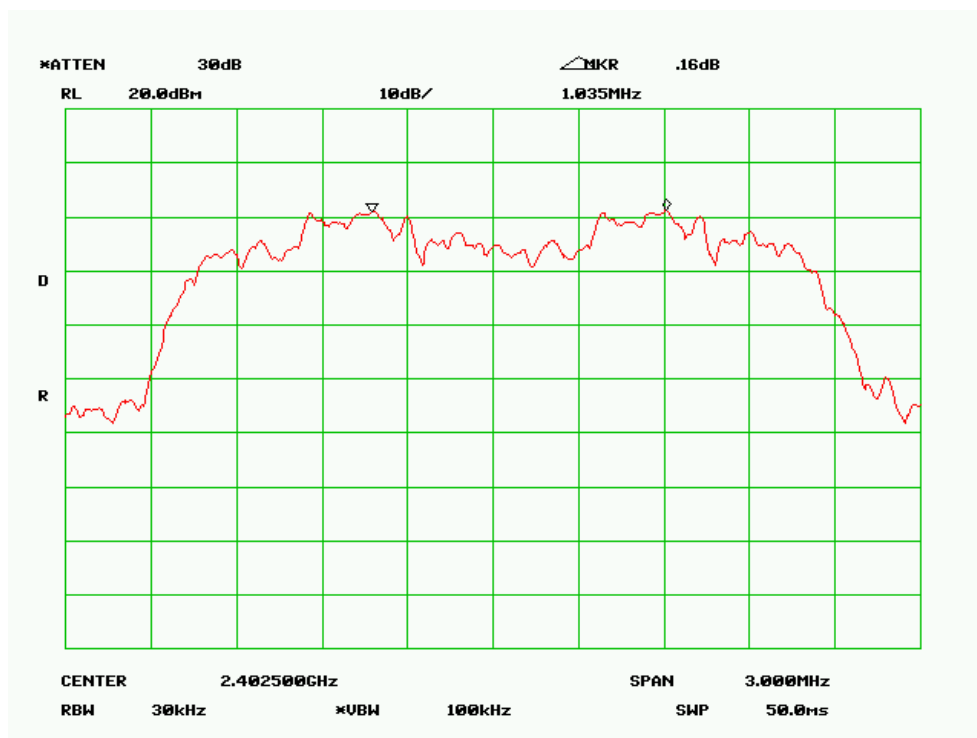
BDR (GFSK): Middle Channel



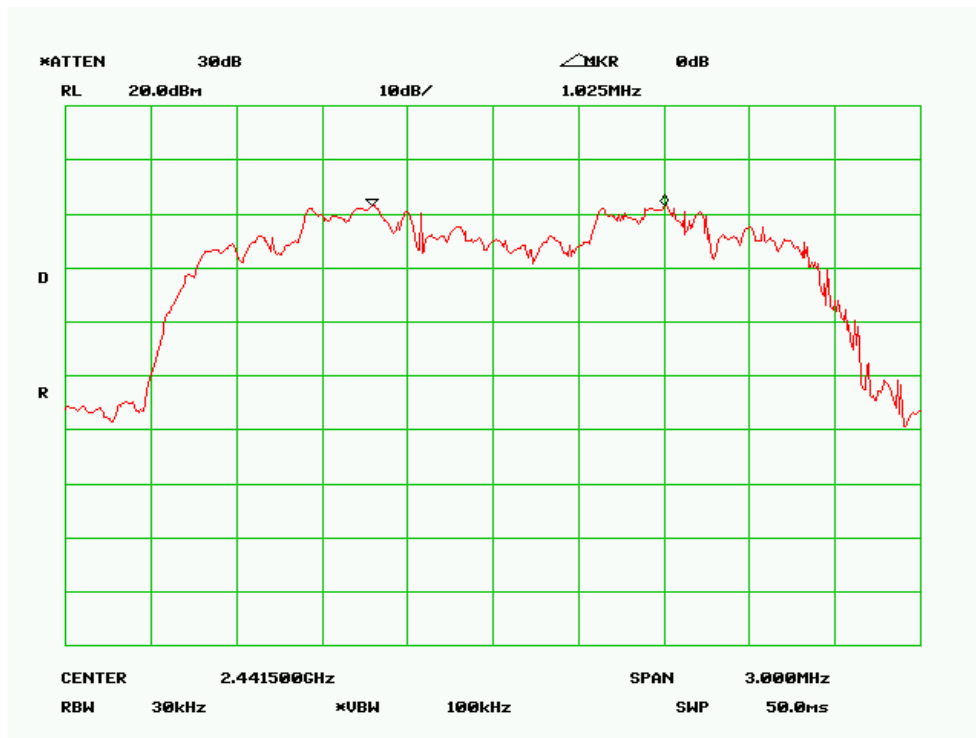
BDR (GFSK): High Channel



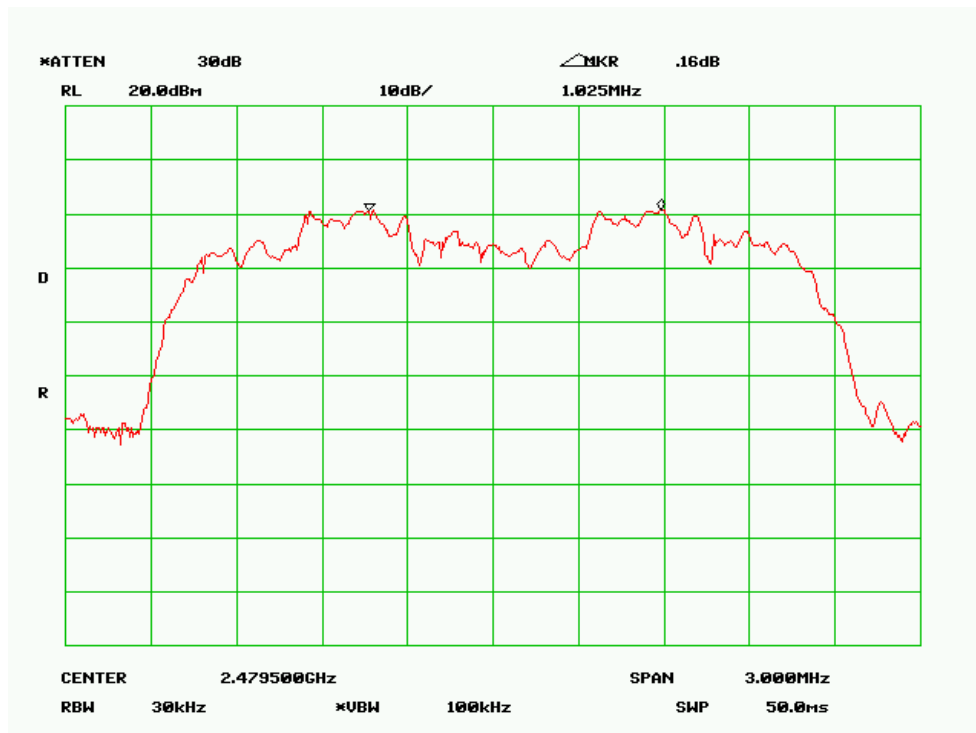
EDR ($\pi/4$ -DQPSK): Low Channel



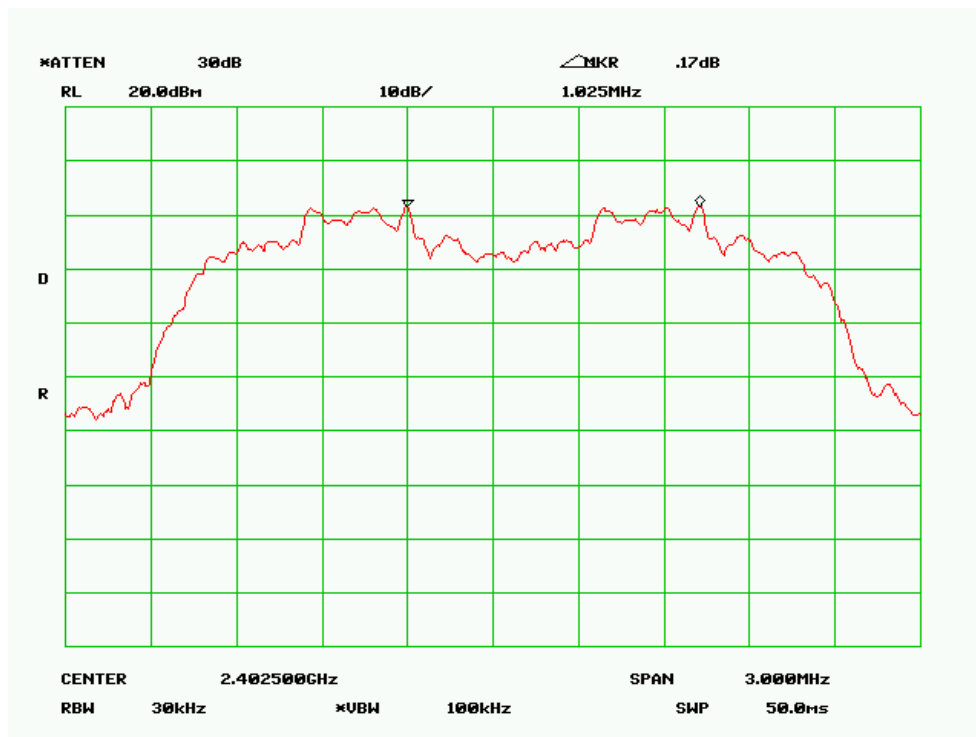
EDR ($\pi/4$ -DQPSK): Middle Channel



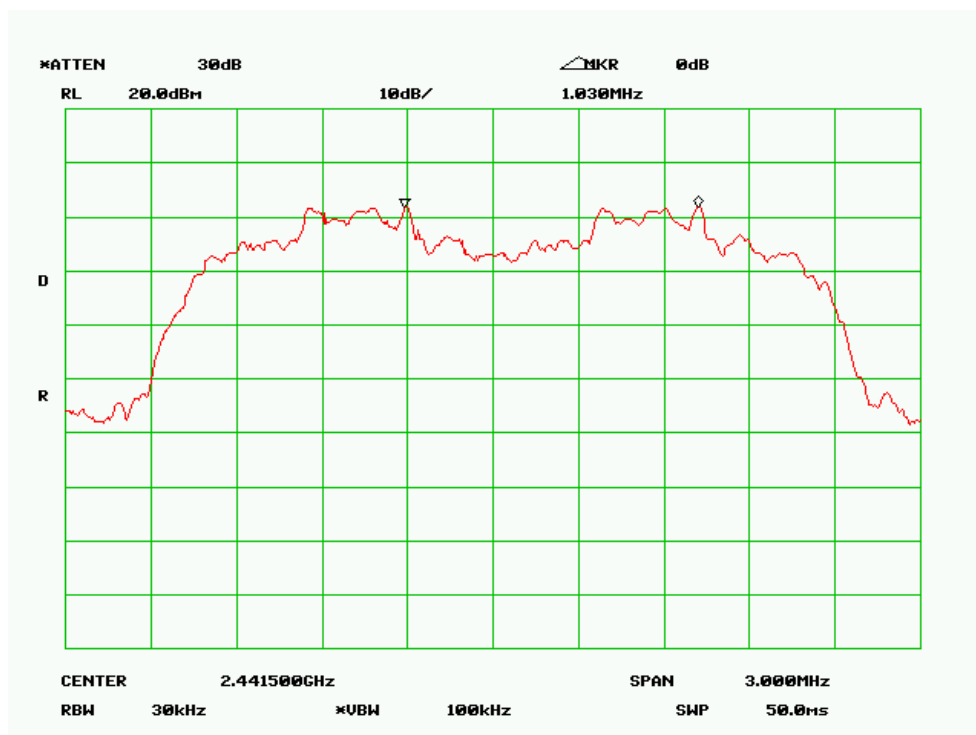
EDR ($\pi/4$ -DQPSK): High Channel



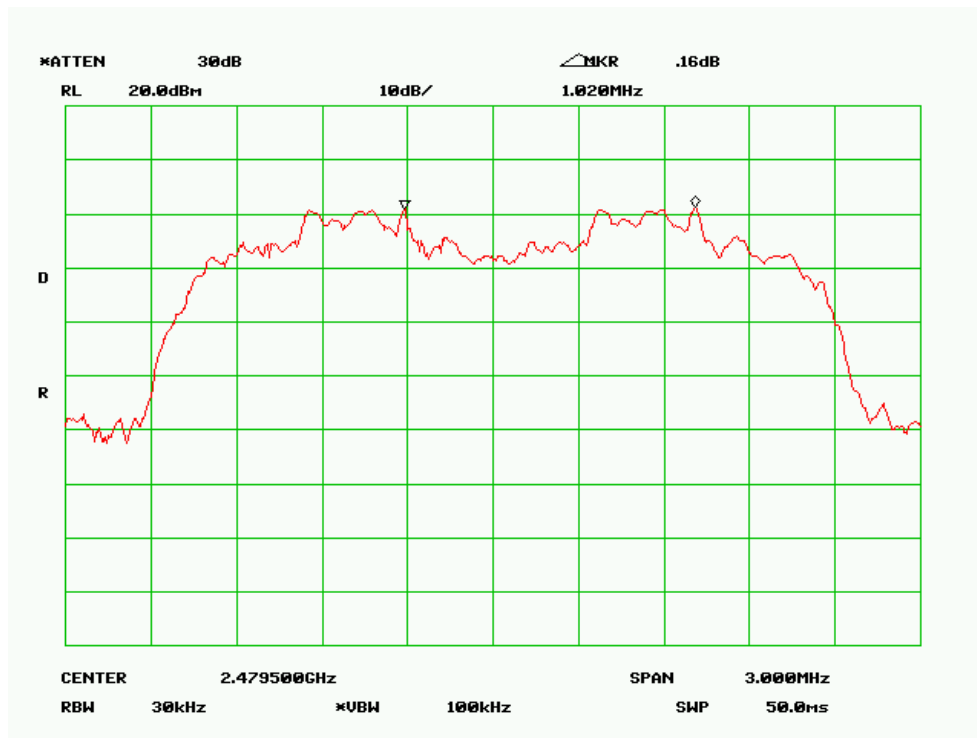
EDR (8DPSK): Low Channel



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
Agilent	Spectrum Analyzer	8564E	3943A01781	2013-05-09	2016-05-08

* **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**

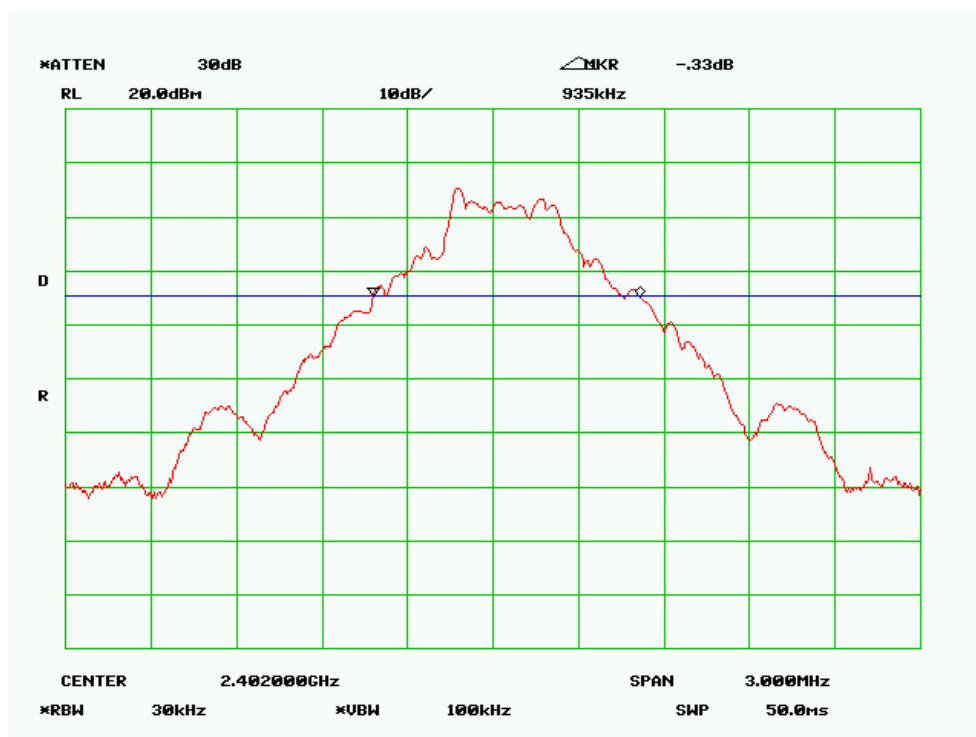
Temperature:	21 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by William Li on 2015-01-06.

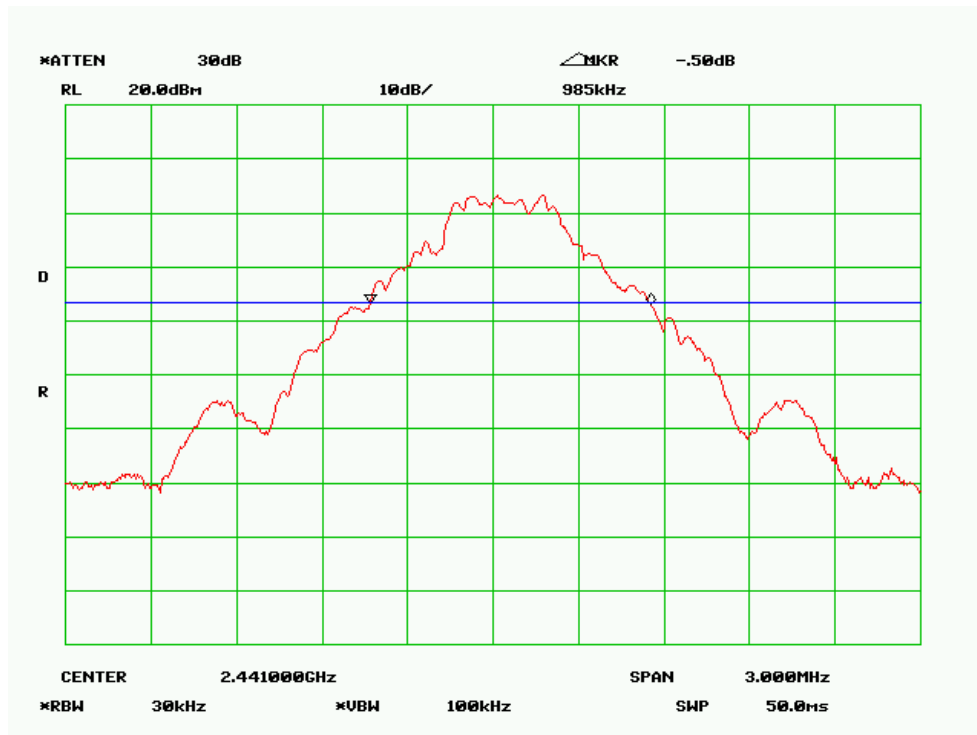
EUT operation mode: Transmitting

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

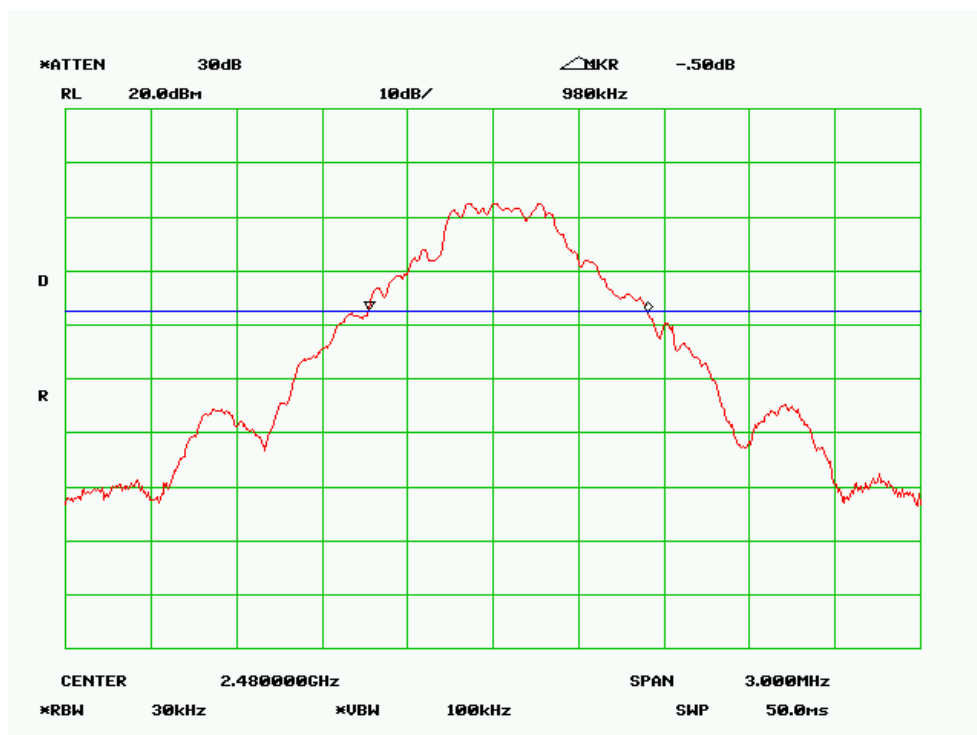
Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
BDR (GFSK)	Low	2402	0.935
	Middle	2441	0.985
	High	2480	0.980
EDR ($\pi/4$-DQPSK)	Low	2402	1.260
	Middle	2441	1.340
	High	2480	1.320
EDR (8DPSK)	Low	2402	1.285
	Middle	2441	1.305
	High	2480	1.300

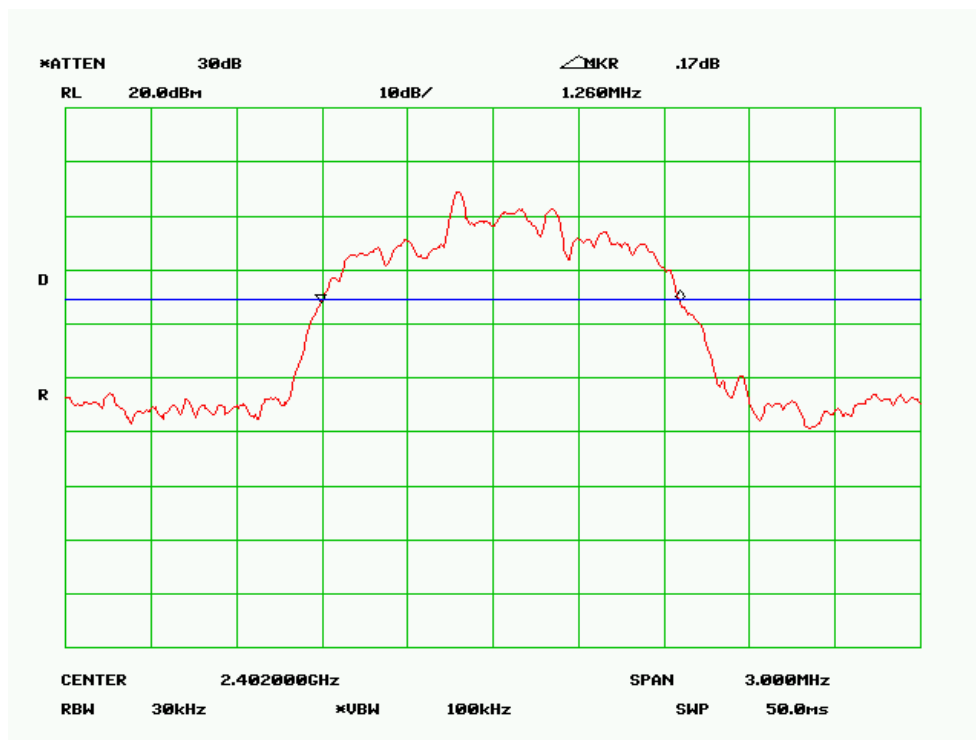
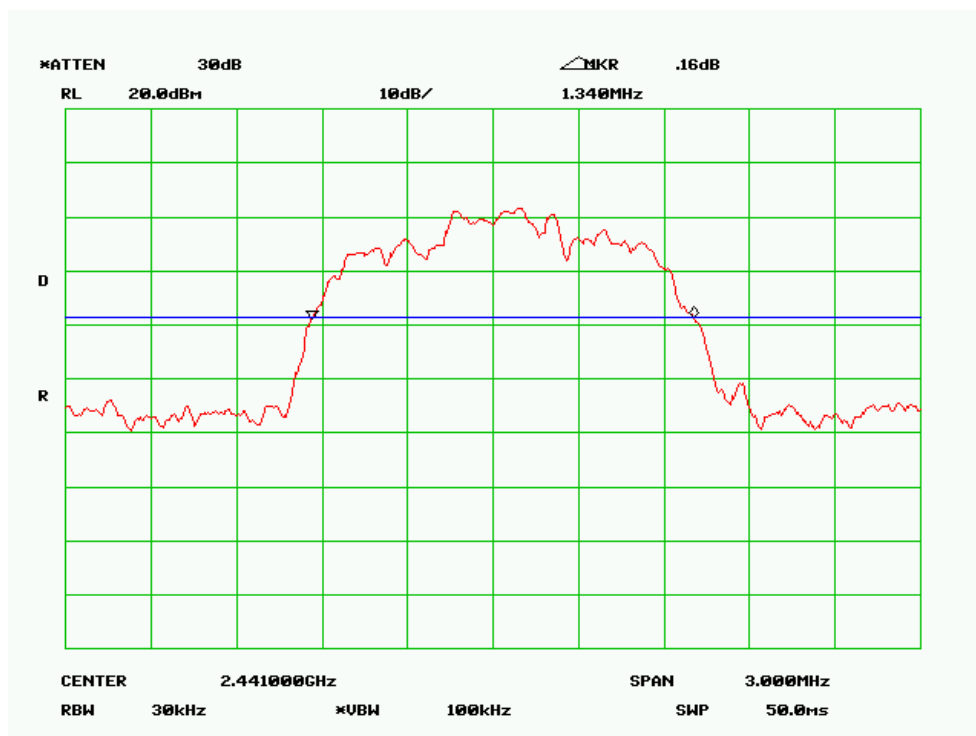
BDR (GFSK): Low Channel

BDR (GFSK): Middle Channel

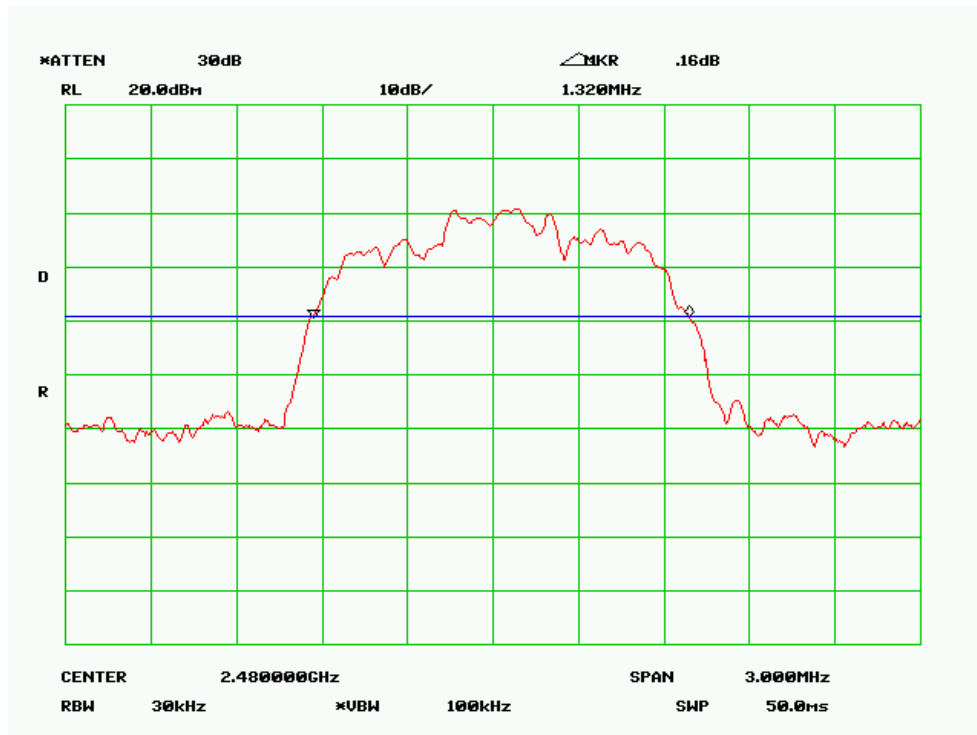


BDR (GFSK): High Channel

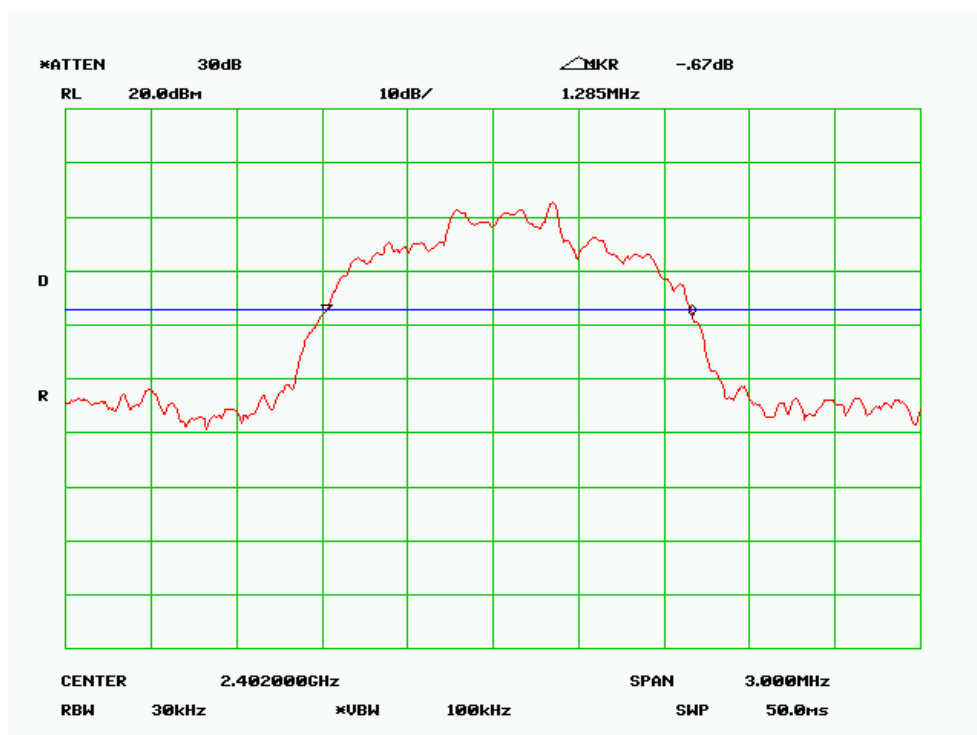


EDR ($\pi/4$ -DQPSK): Low ChannelEDR ($\pi/4$ -DQPSK): Middle Channel

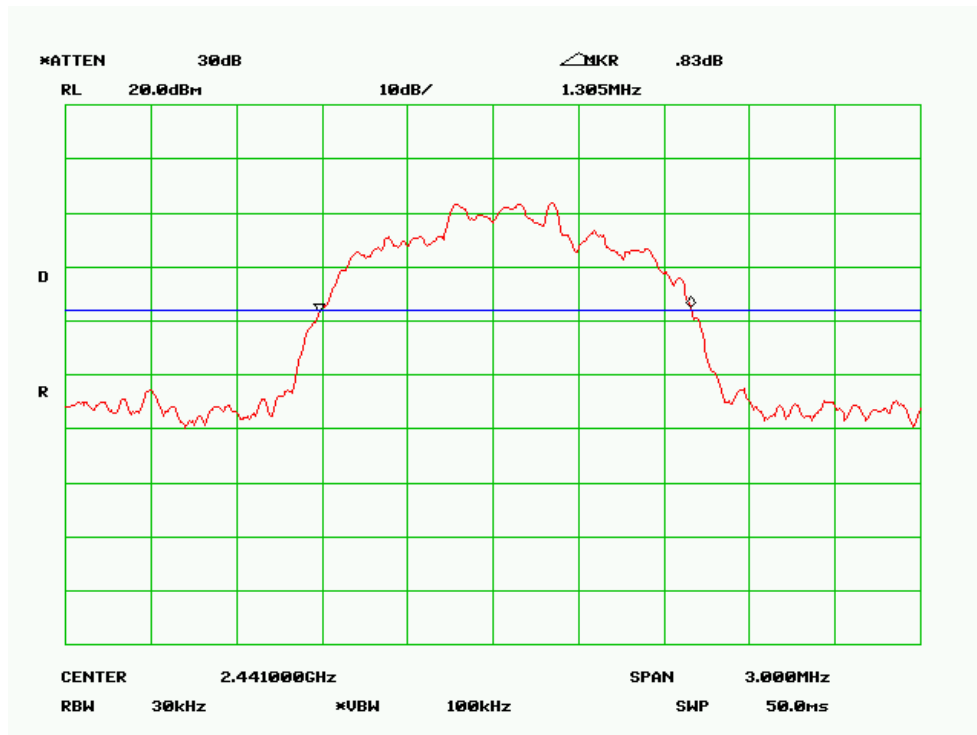
EDR ($\pi/4$ -DQPSK): High Channel



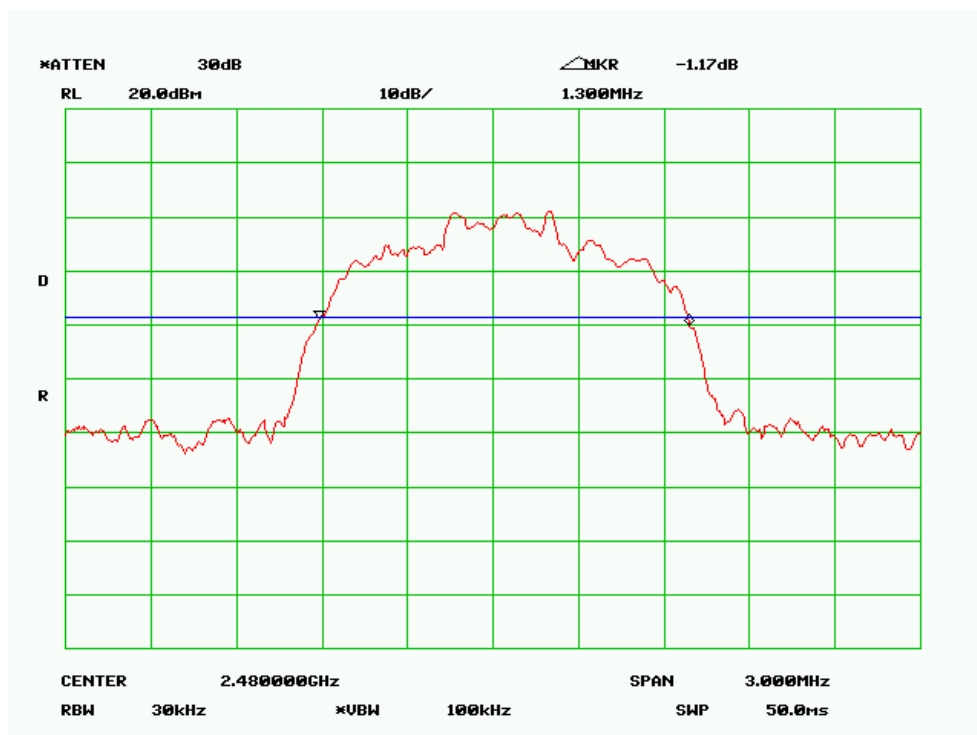
EDR (8DPSK): Low Channel



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
Agilent	Spectrum Analyzer	8564E	3943A01781	2013-05-09	2016-05-08

* **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:	21 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

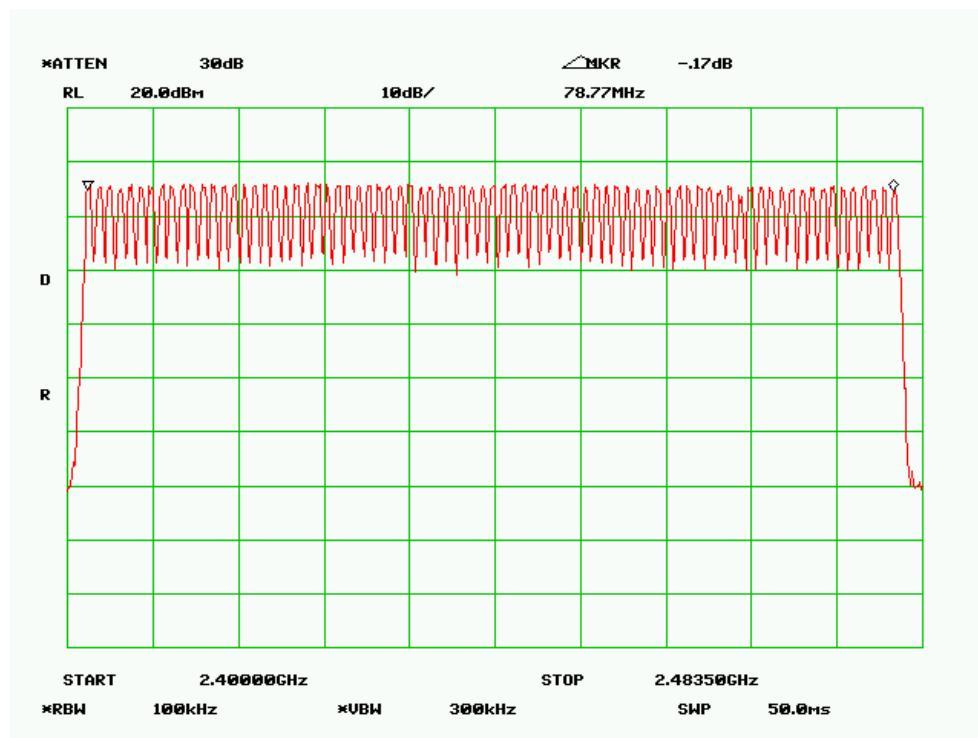
The testing was performed by William Li on 2015-01-06.

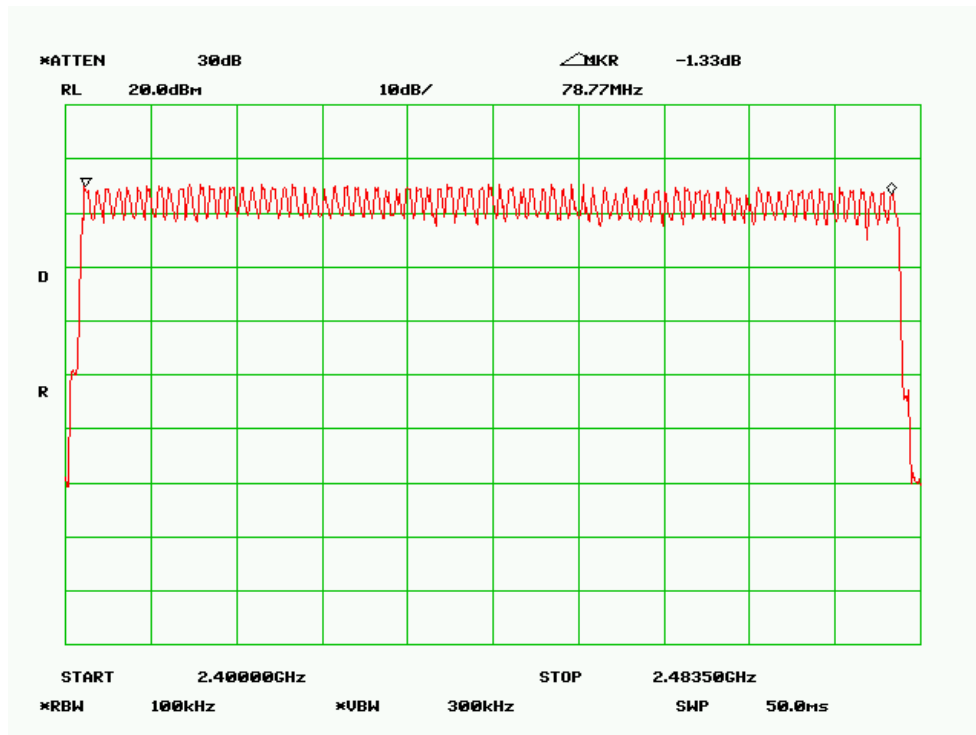
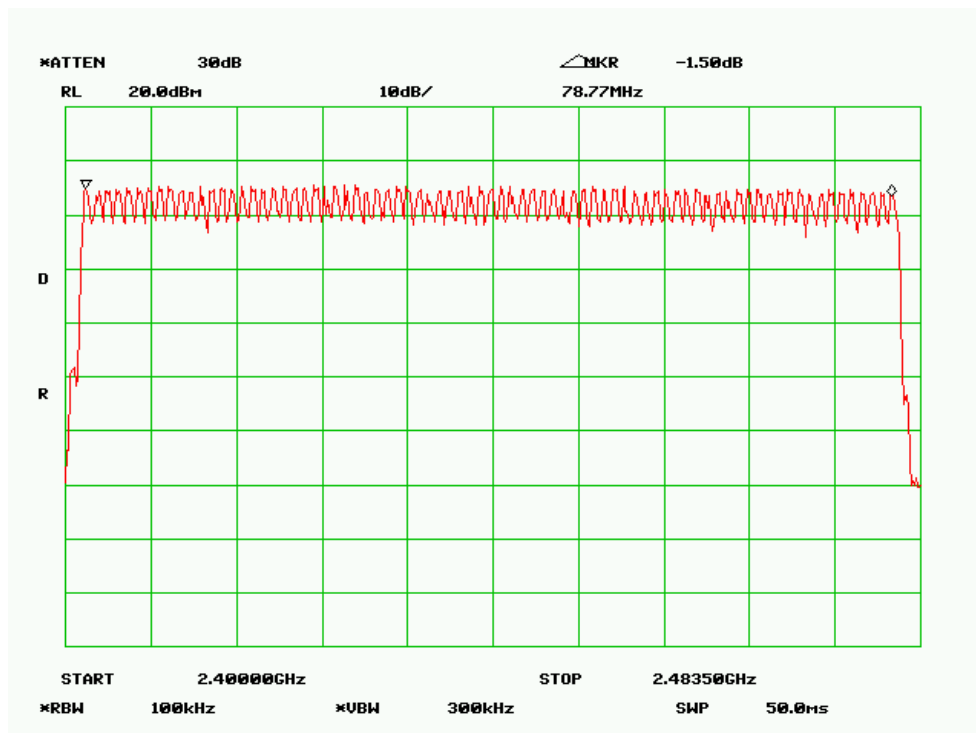
EUT operation mode: Transmitting

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	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2014-06-13	2015-06-13

* **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:	21 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

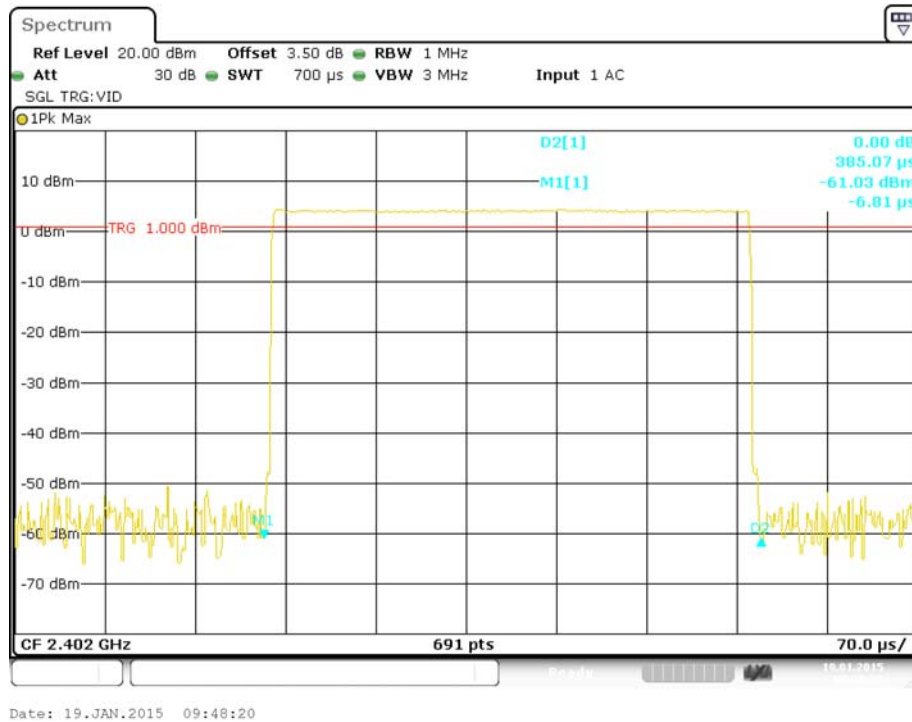
The testing was performed by William Li on 2014-12-28

EUT operation mode: Transmitting

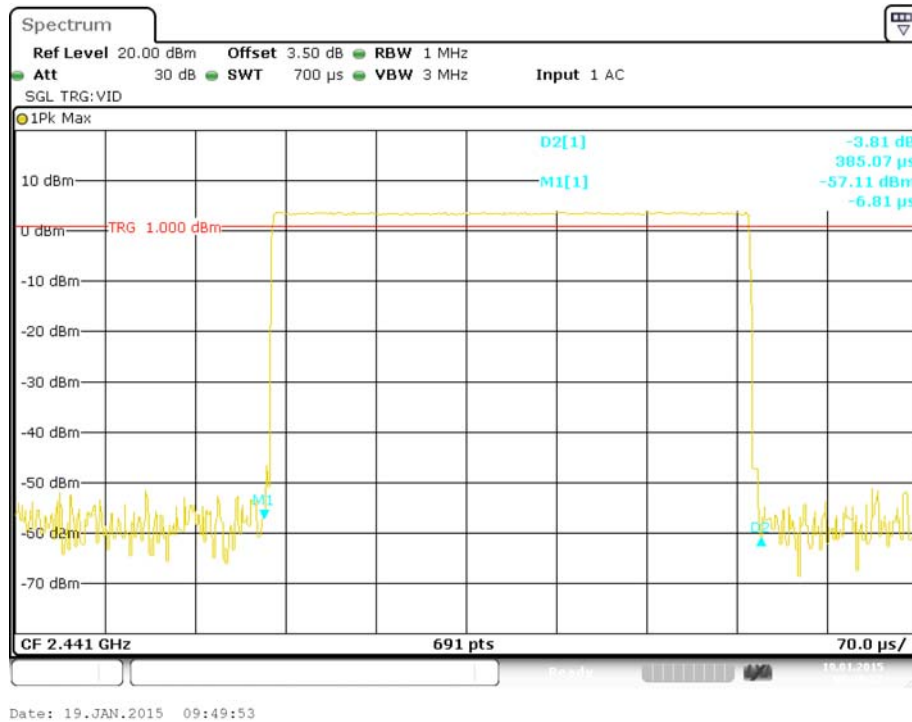
Test Result: Compliance. Please refer to following tables and plots

Mode		Channel	Pulse Width (ms)	Dwell Time (S)	Limit (S)	Result
BDR (GFSK)	DH 1	Low	0.385	0.123	0.4	Pass
		Middle	0.385	0.123	0.4	Pass
		High	0.385	0.123	0.4	Pass
		Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	DH 3	Low	1.645	0.263	0.4	Pass
		Middle	1.645	0.263	0.4	Pass
		High	1.645	0.263	0.4	Pass
		Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	DH 5	Low	2.899	0.309	0.4	Pass
		Middle	2.906	0.310	0.4	Pass
		High	2.906	0.310	0.4	Pass
		Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR ($\pi/4$ -DQPSK)	2DH 1	Low	0.390	0.125	0.4	Pass
		Middle	0.390	0.125	0.4	Pass
		High	0.391	0.125	0.4	Pass
		Note: 2DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	2DH 3	Low	1.649	0.264	0.4	Pass
		Middle	1.649	0.264	0.4	Pass
		High	1.649	0.264	0.4	Pass
		Note: 2DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	2DH 5	Low	2.906	0.310	0.4	Pass
		Middle	2.906	0.310	0.4	Pass
		High	2.906	0.310	0.4	Pass
		Note: 2DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				
EDR (8DPSK)	3DH 1	Low	0.392	0.125	0.4	Pass
		Middle	0.392	0.125	0.4	Pass
		High	0.391	0.125	0.4	Pass
		Note: 3DH1:Dwell time = Pulse time*(1600/2/79)*31.6S				
	3DH 3	Low	1.645	0.263	0.4	Pass
		Middle	1.645	0.263	0.4	Pass
		High	1.653	0.264	0.4	Pass
		Note: 3DH3:Dwell time = Pulse time*(1600/4/79)*31.6S				
	3DH 5	Low	2.899	0.309	0.4	Pass
		Middle	2.913	0.311	0.4	Pass
		High	2.920	0.311	0.4	Pass
		Note: 3DH5:Dwell time = Pulse time*(1600/6/79)*31.6S				

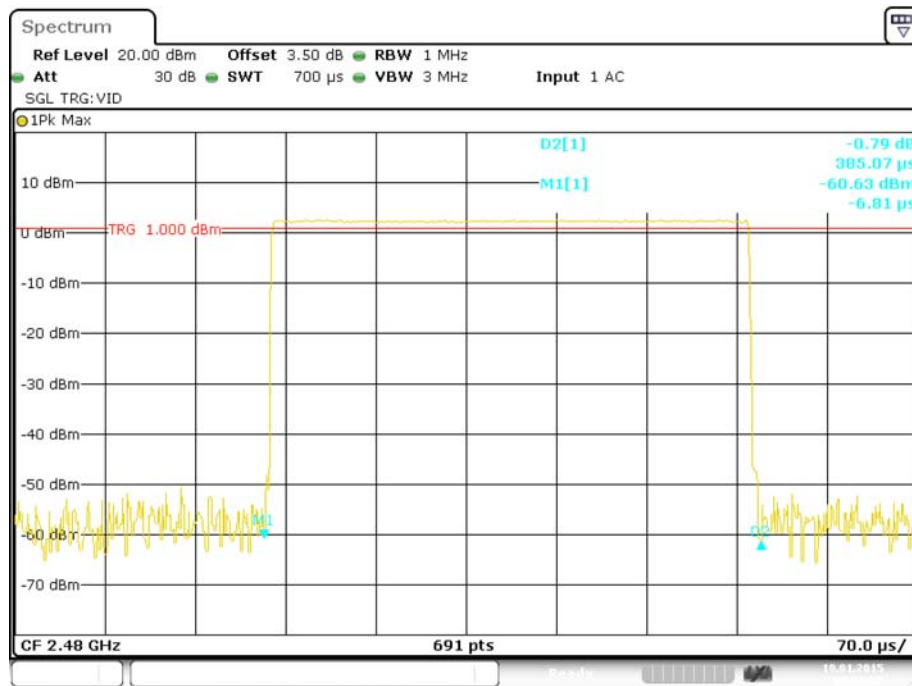
BDR (GFSK): **Pulse time, Low Channel, DH1**



Pulse time, Middle Channel, DH1

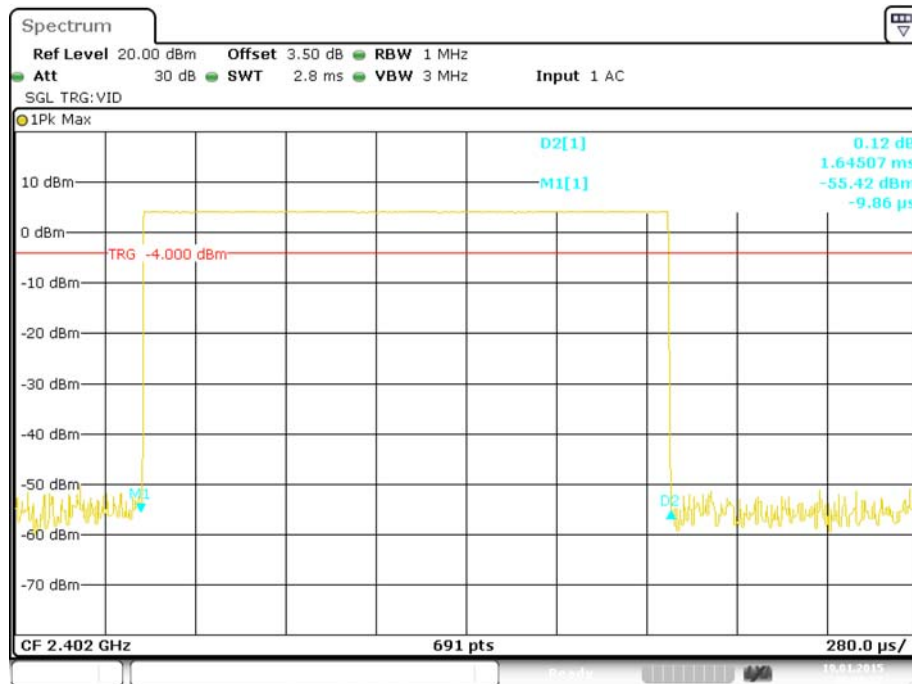


Pulse time, High Channel, DH1



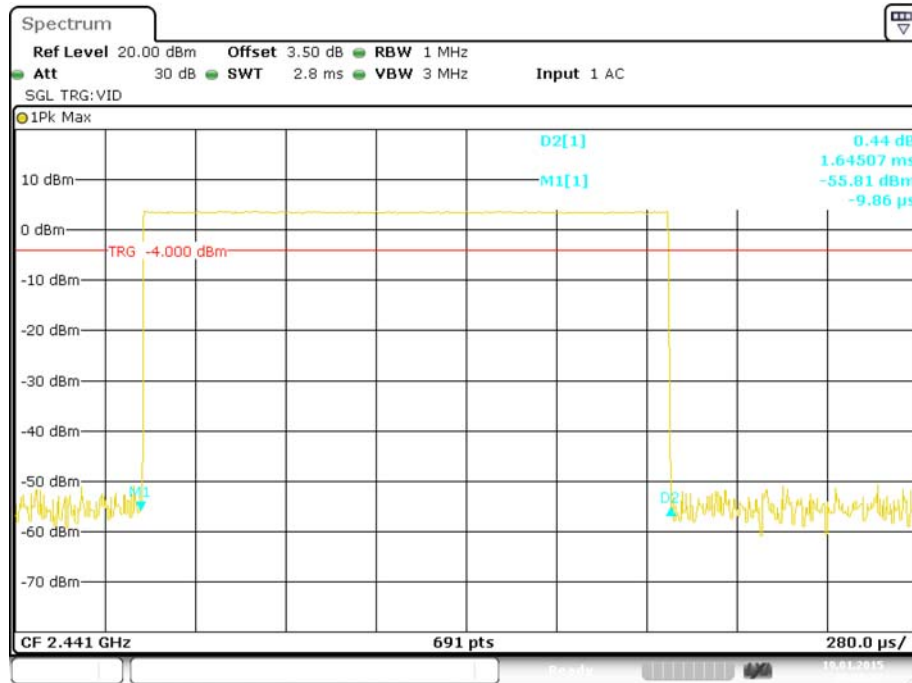
Date: 19.JAN.2015 09:50:57

Pulse time, Low Channel, DH3

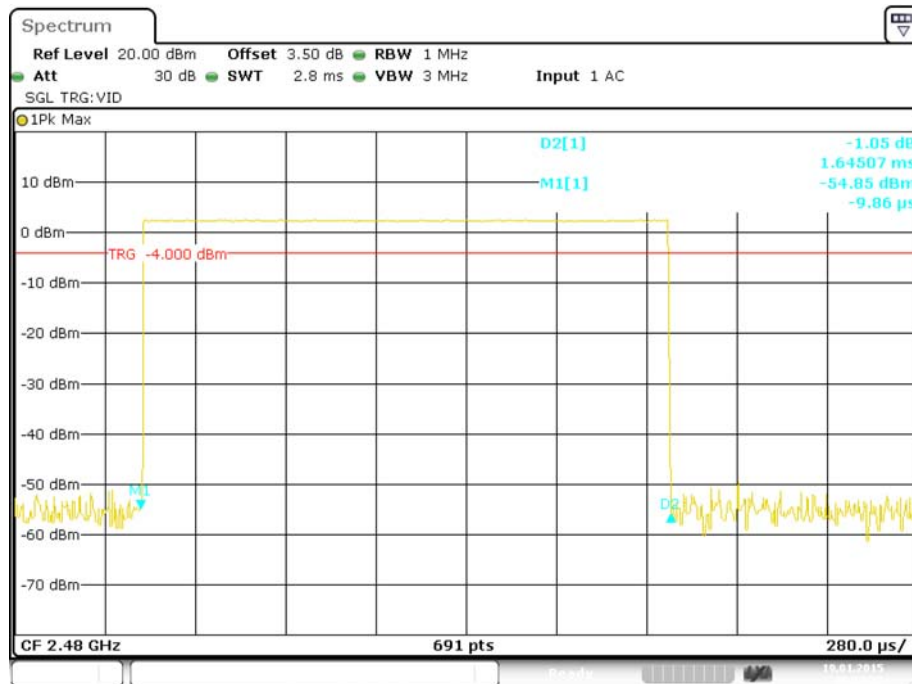


Date: 19.JAN.2015 10:08:51

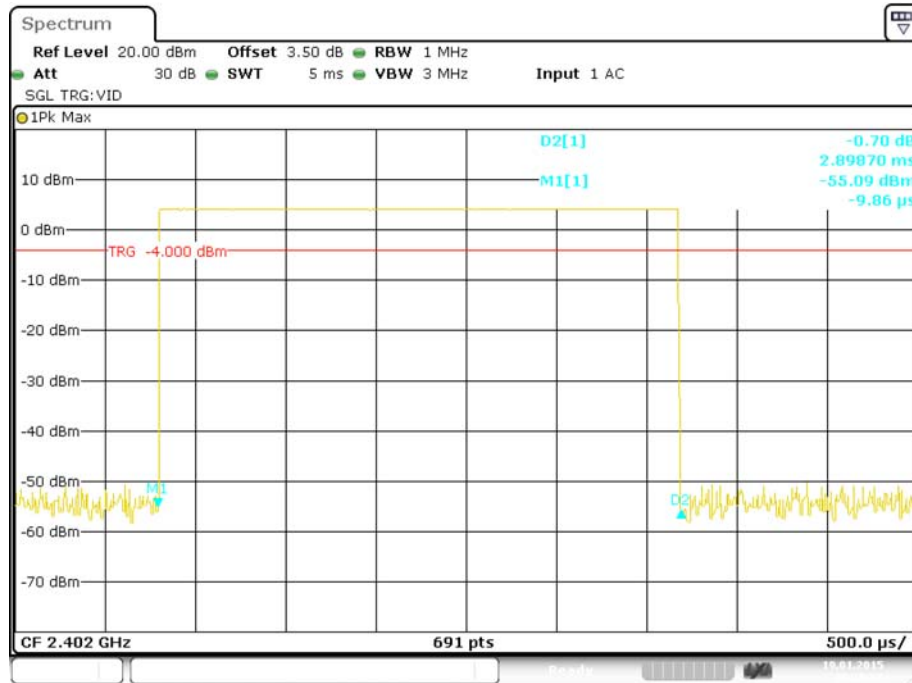
Pulse time, Middle Channel, DH3



Pulse time, High Channel, DH3

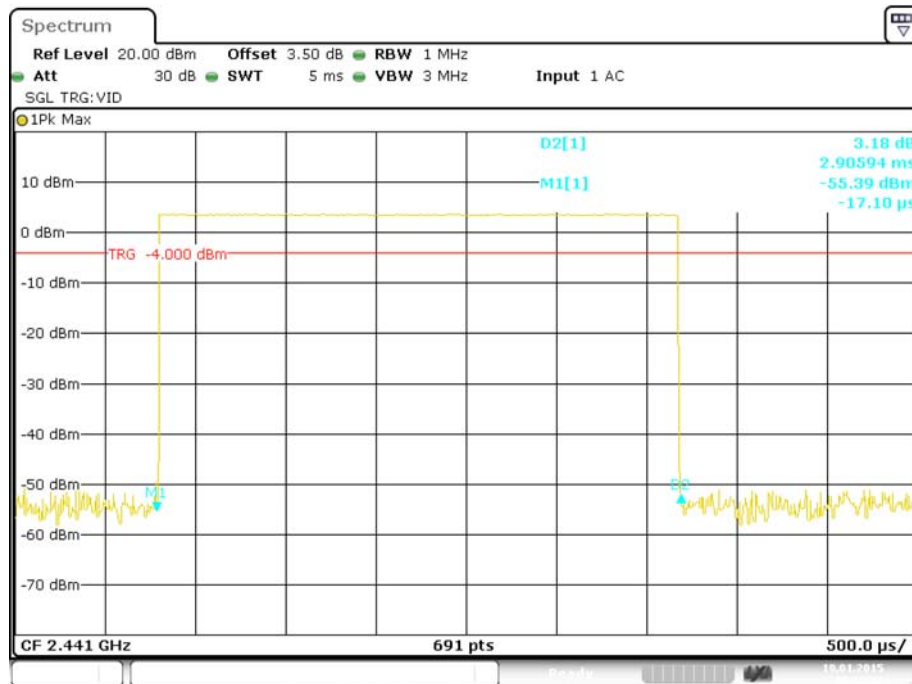


Pulse time, Low Channel, DH5

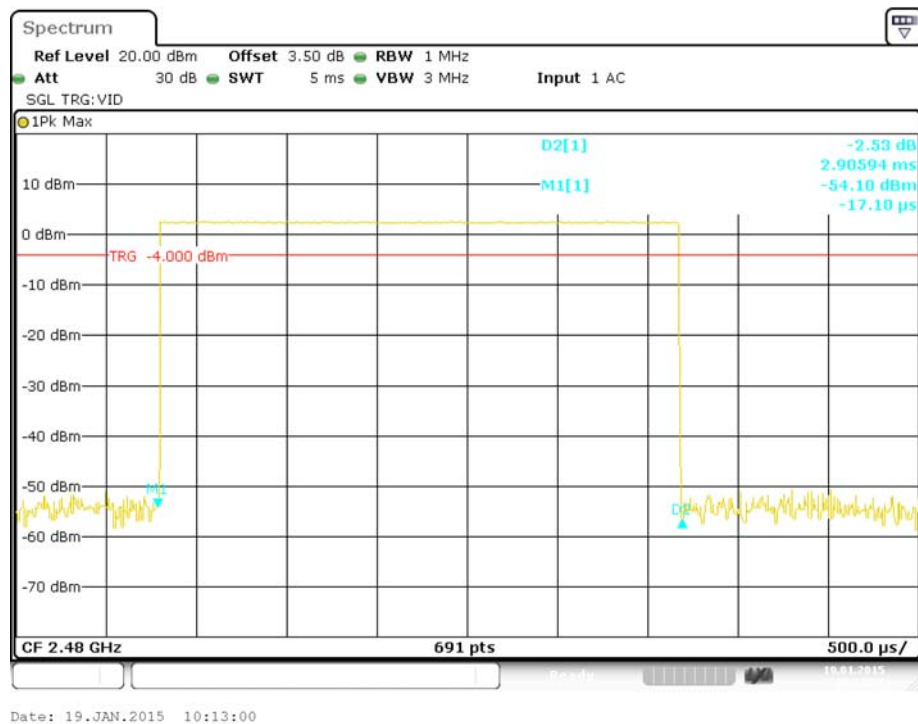
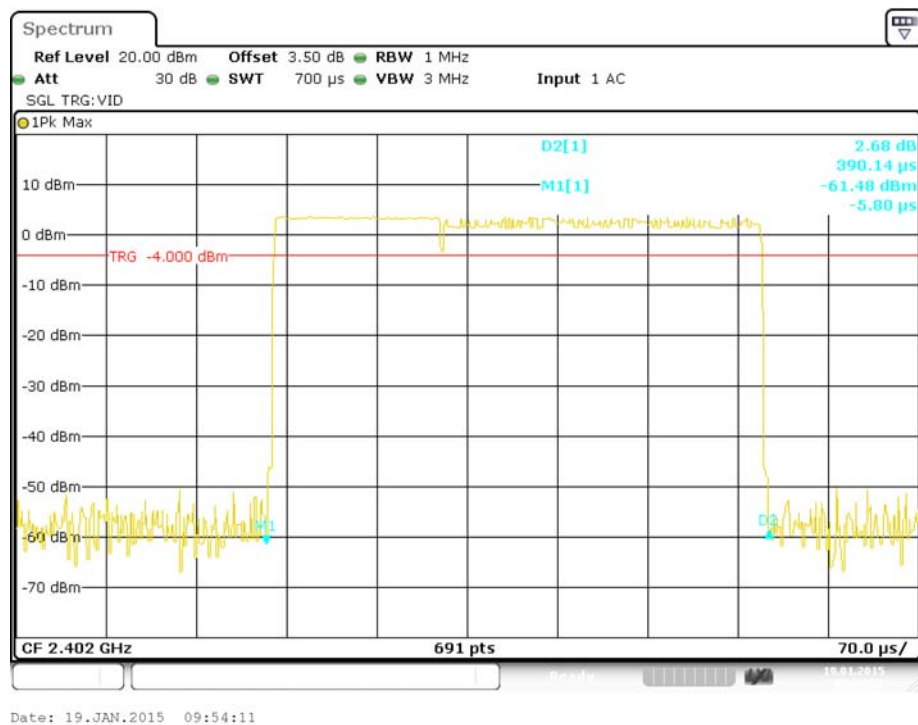


Date: 19.JAN.2015 10:10:59

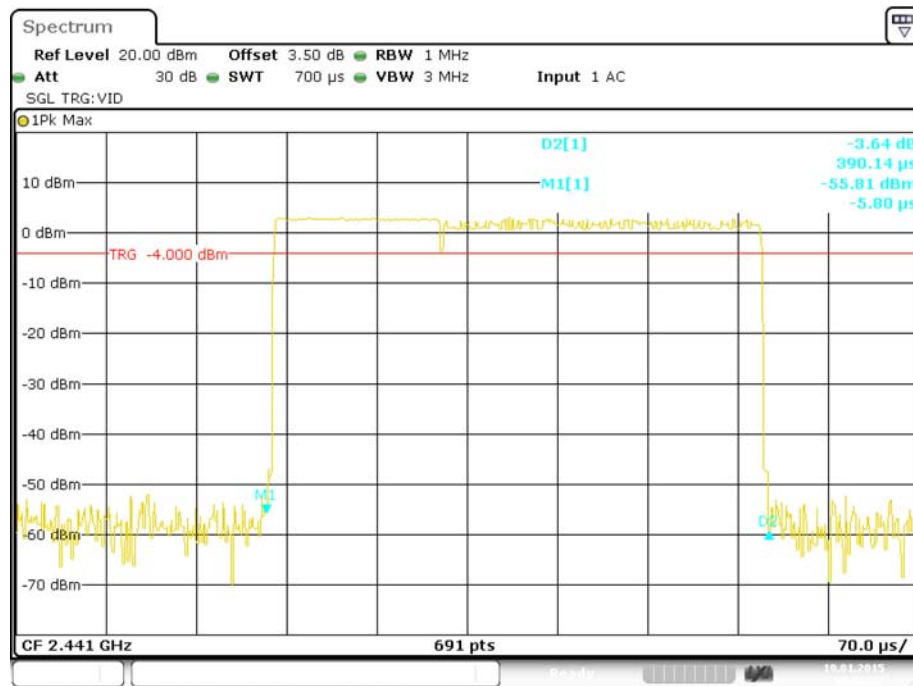
Pulse time, Middle Channel, DH5



Date: 19.JAN.2015 10:12:10

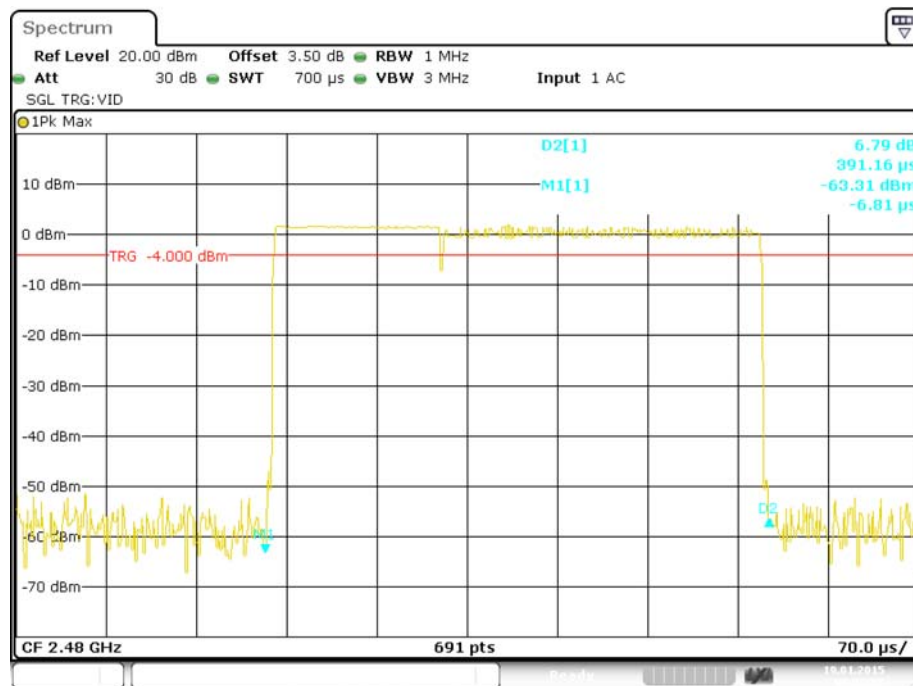
Pulse time, High Channel, DH5**EDR ($\pi/4$ -DQPSK):
Pulse time, Low Channel, DH1**

Pulse time, Middle Channel, DH1



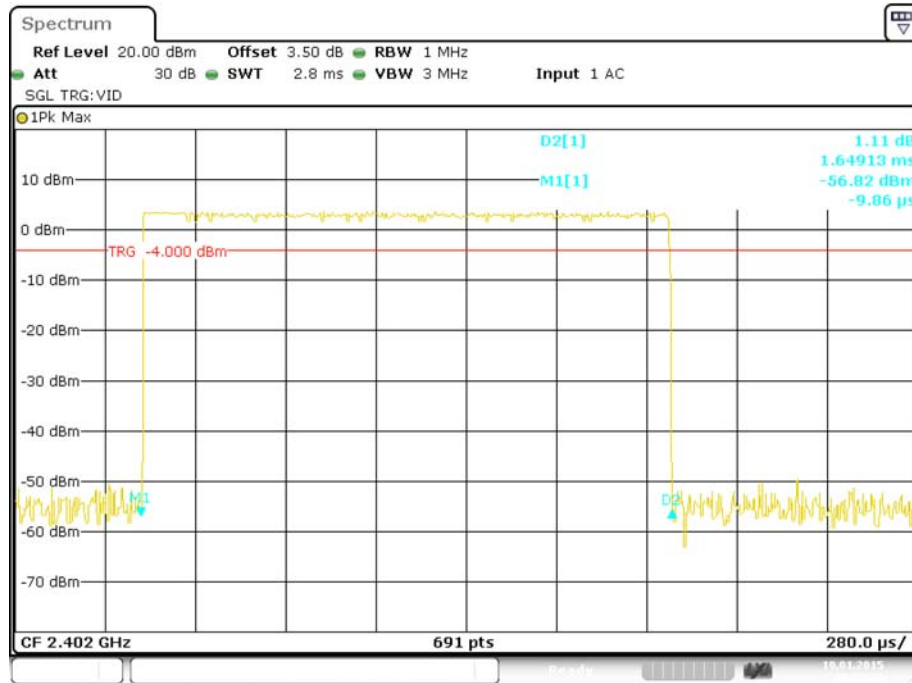
Date: 19.JAN.2015 09:53:17

Pulse time, High Channel, DH1



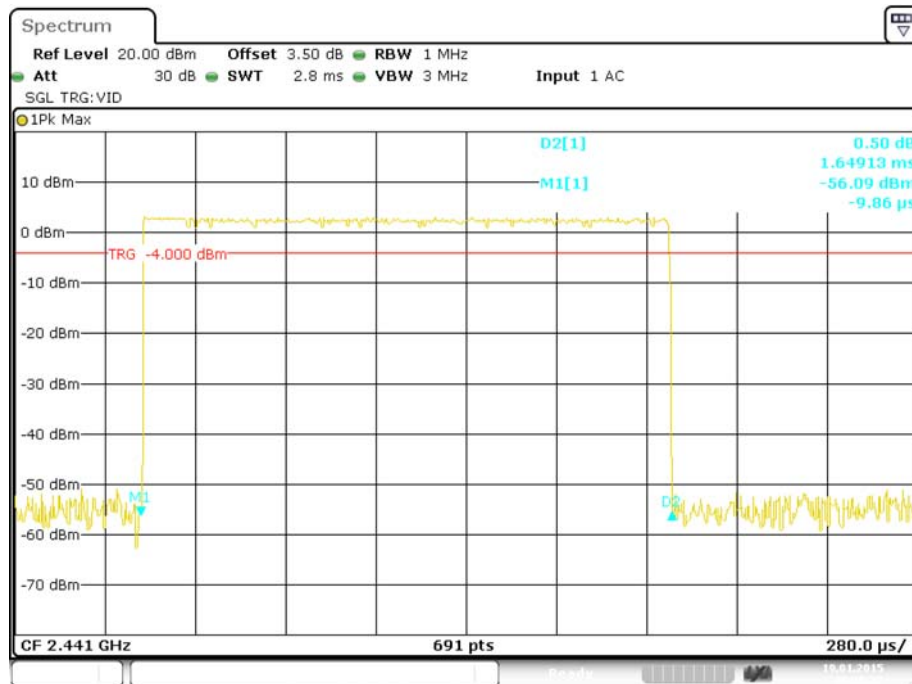
Date: 19.JAN.2015 09:52:05

Pulse time, Low Channel, DH3



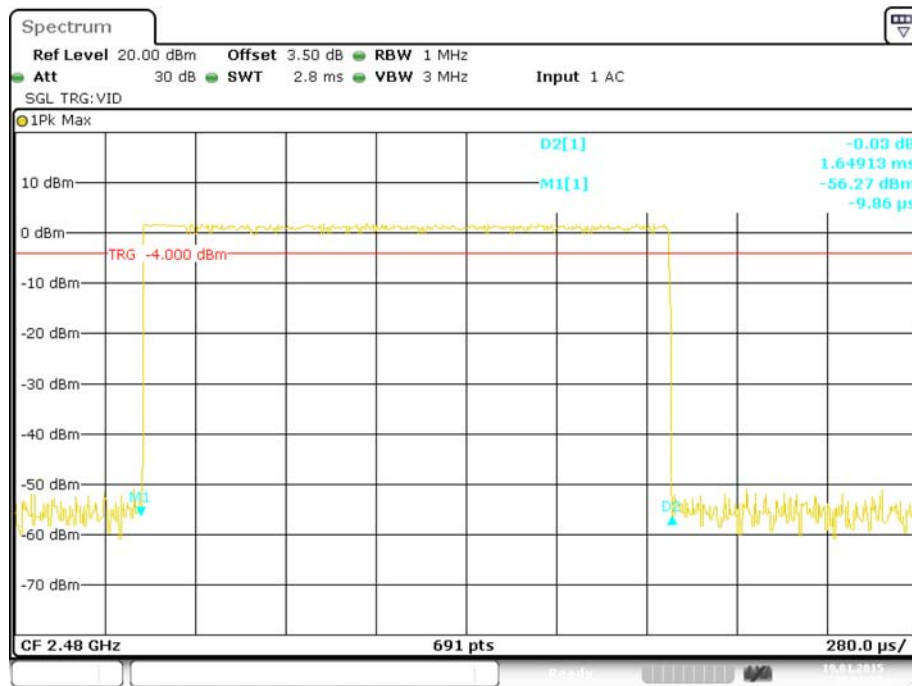
Date: 19.JAN.2015 10:03:14

Pulse time, Middle Channel, DH3

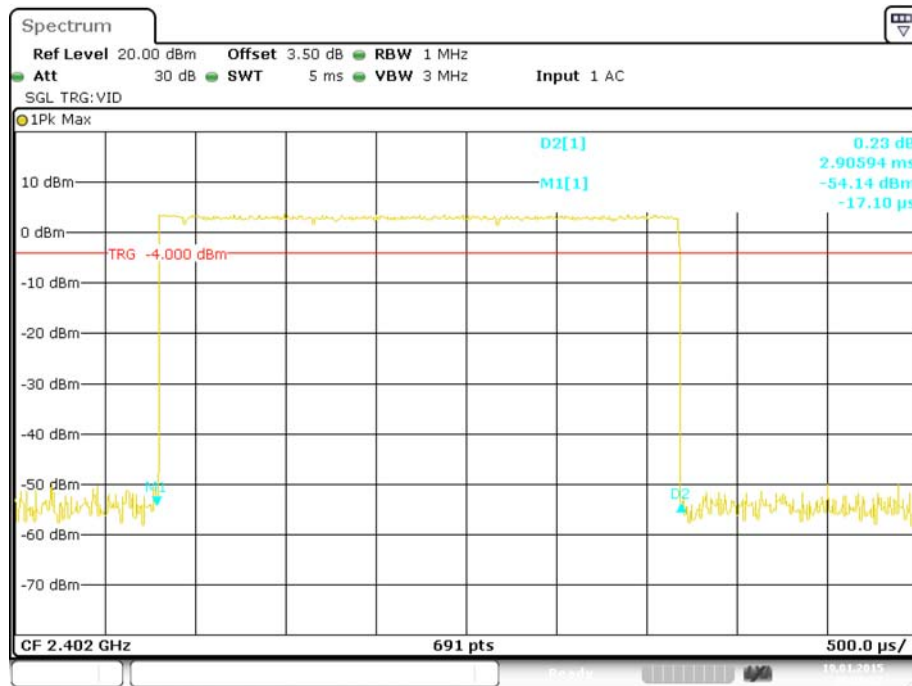


Date: 19.JAN.2015 10:05:23

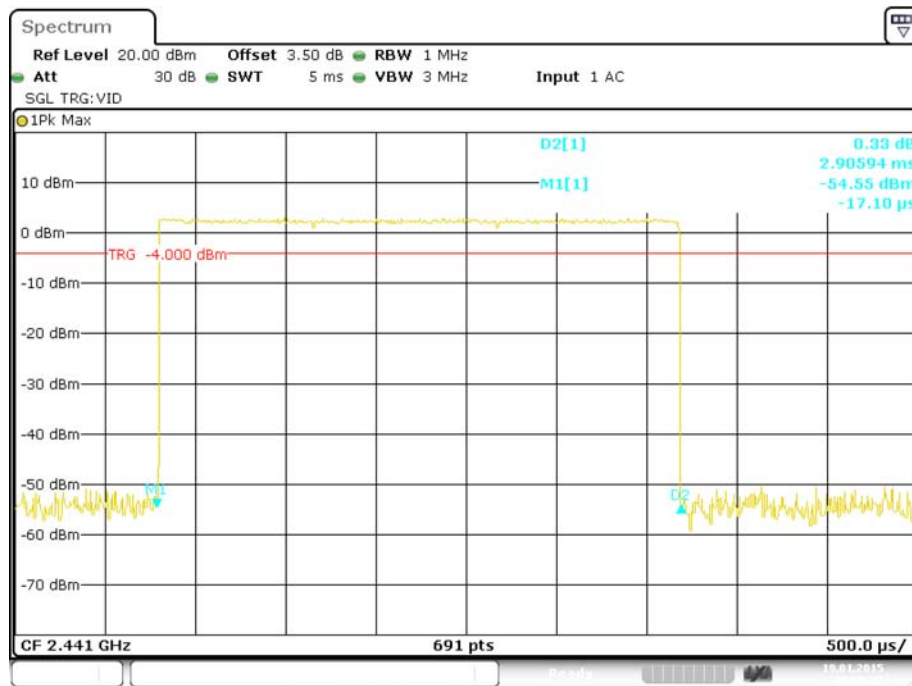
Pulse time, High Channel, DH3



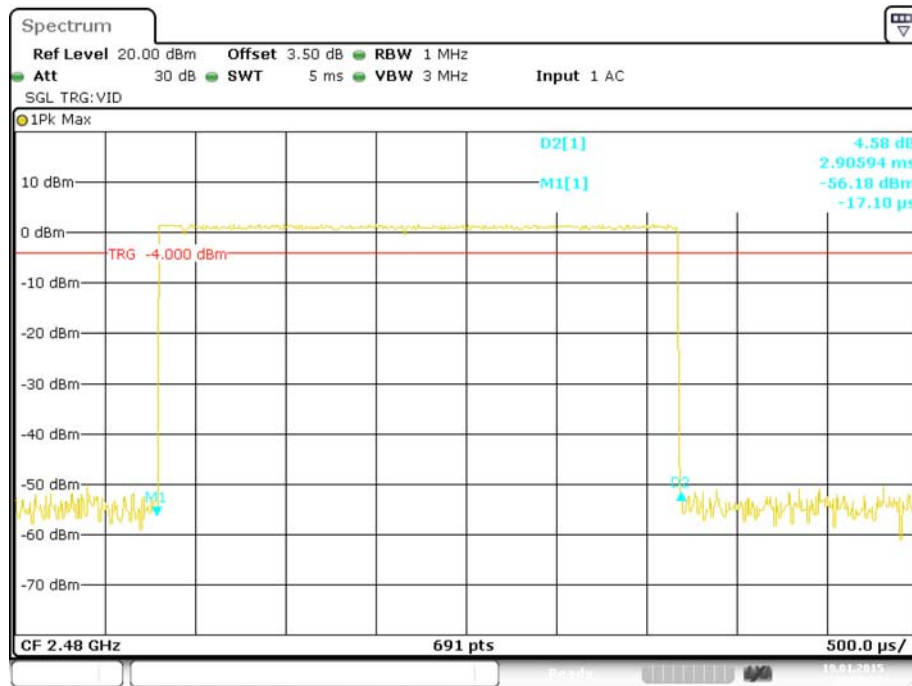
Pulse time, Low Channel, DH5



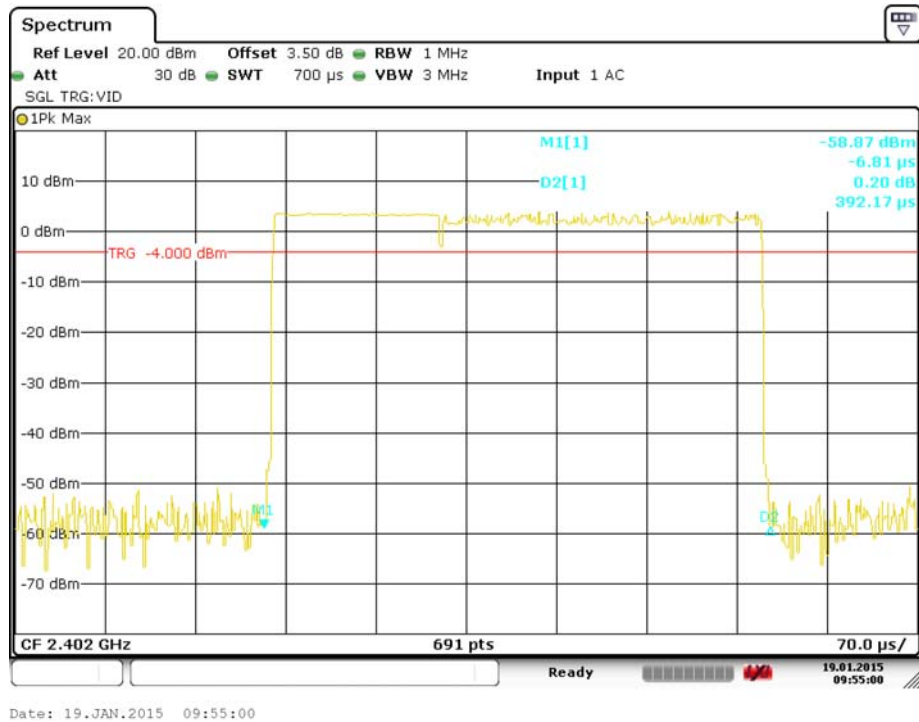
Pulse time, Middle Channel, DH5



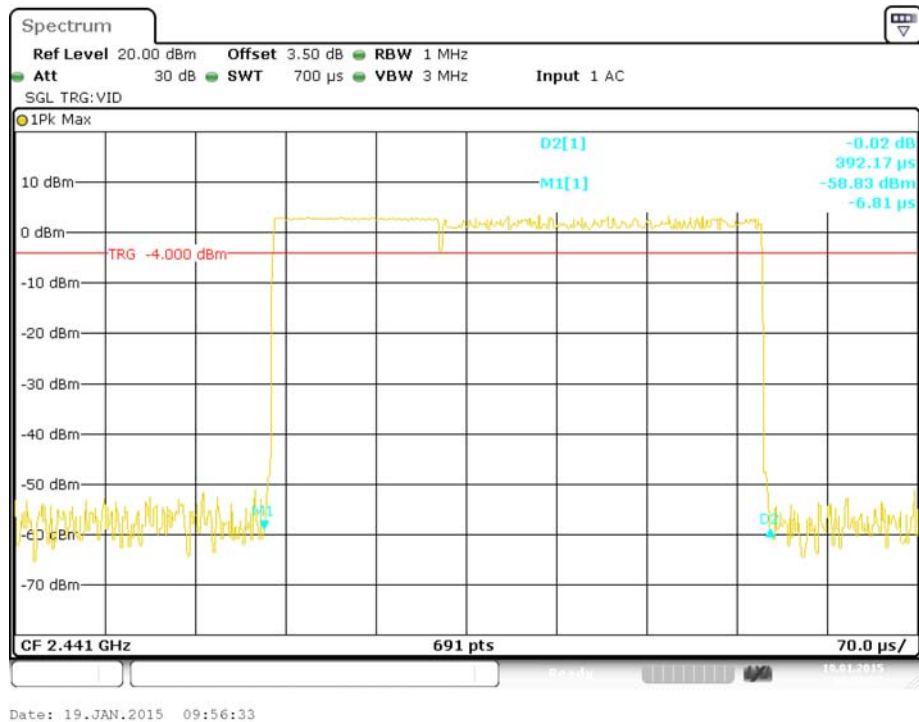
Pulse time, High Channel, DH5



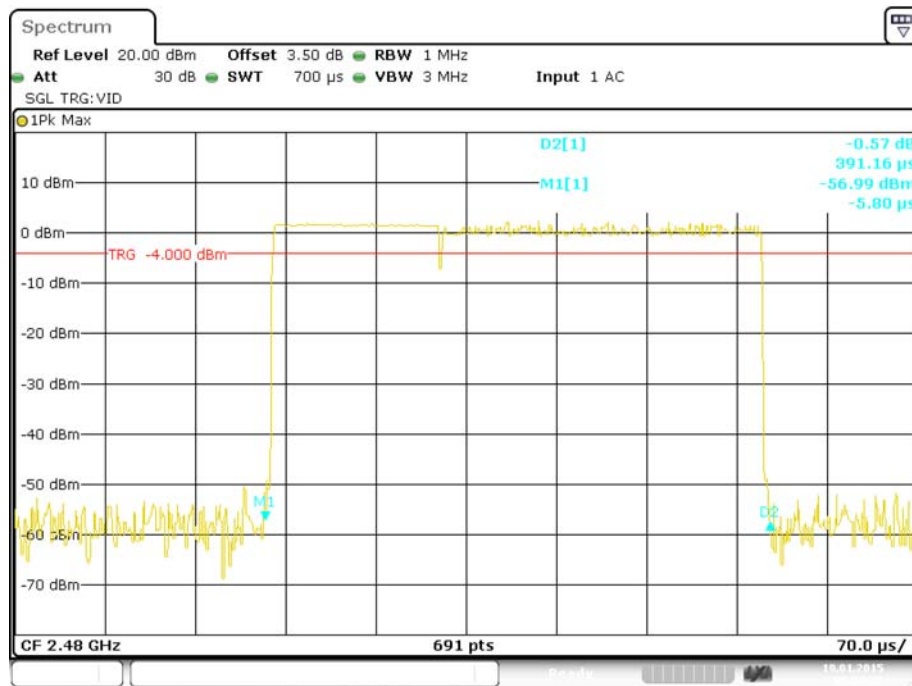
EDR (8DPSK): Pulse time, Low Channel, DH1



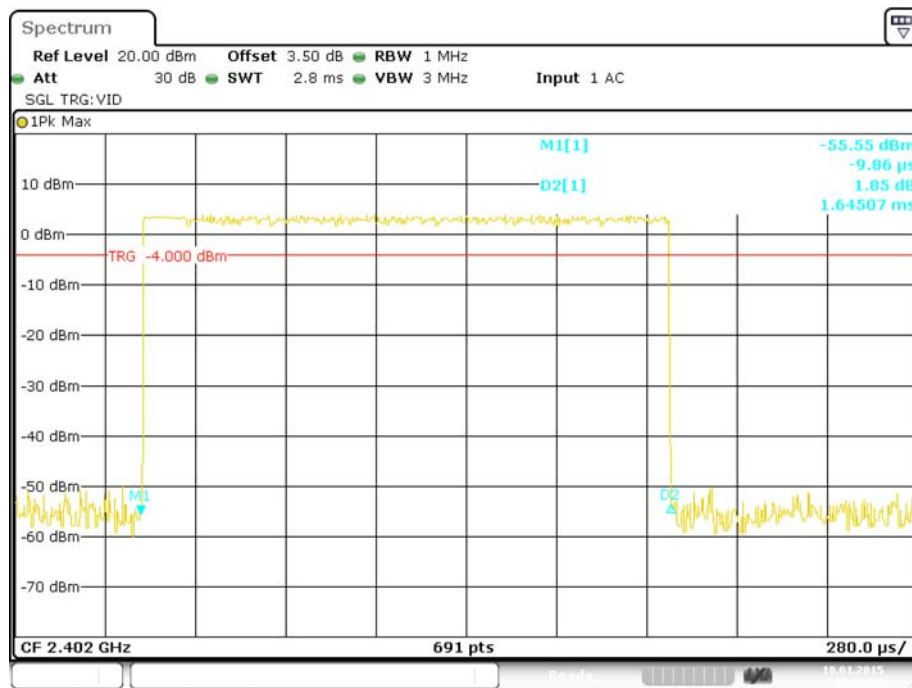
Pulse time, Middle Channel, DH1



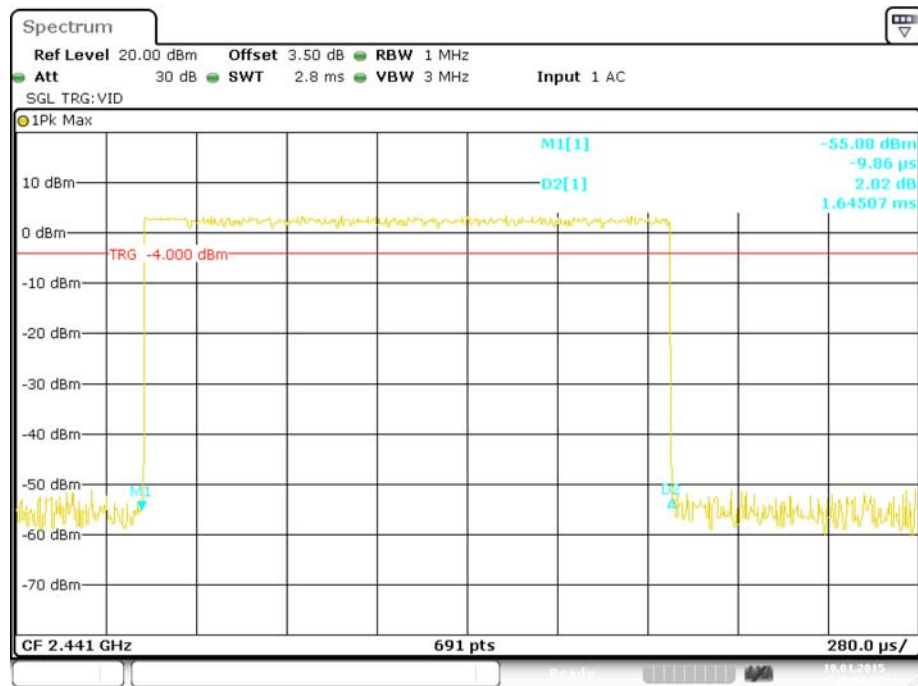
Pulse time, High Channel, DH1



Pulse time, Low Channel, DH3

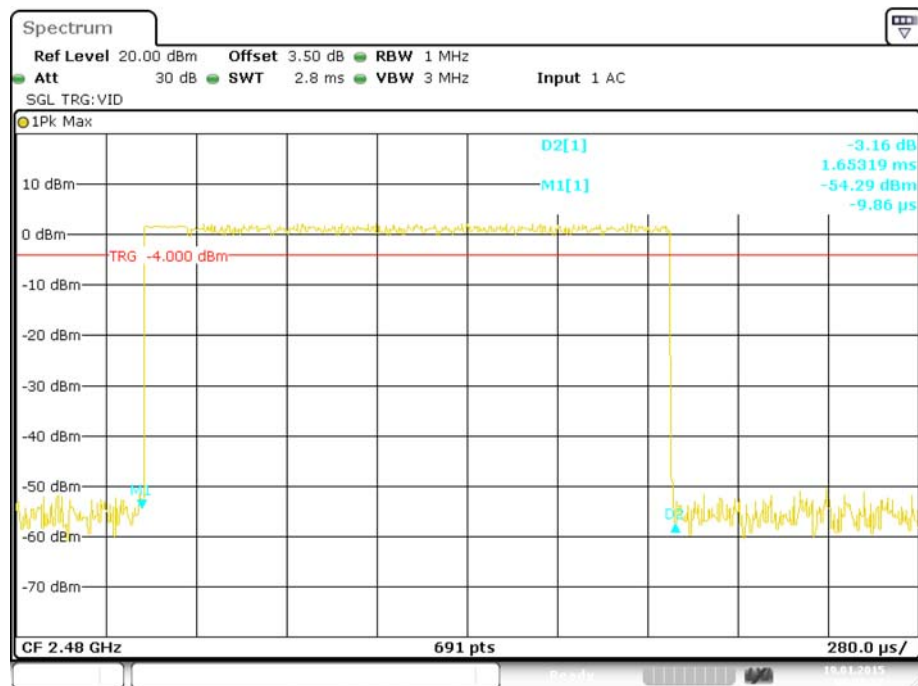


Pulse time, Middle Channel, DH3



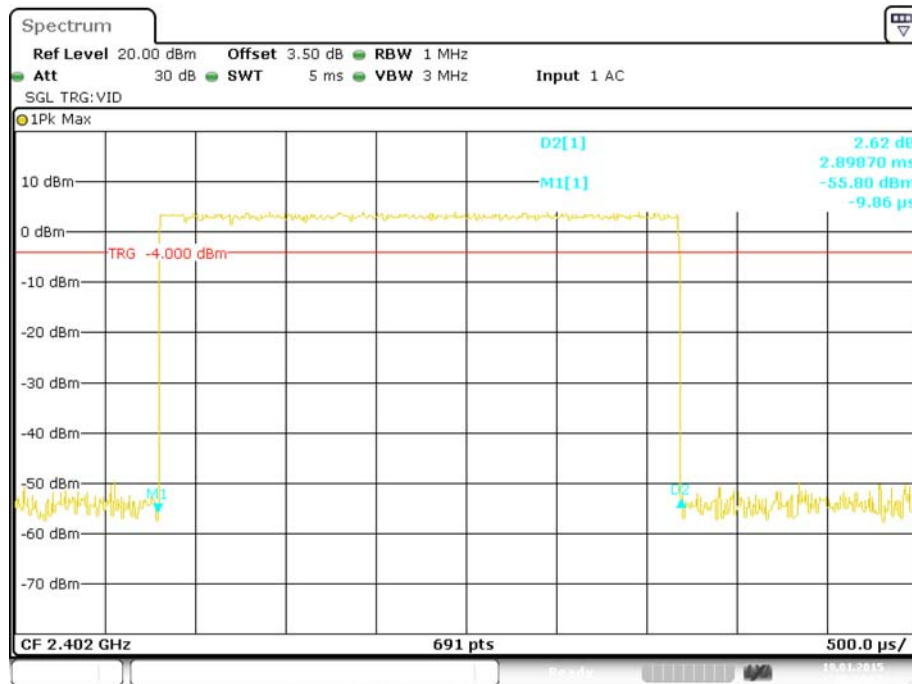
Date: 19.JAN.2015 10:00:31

Pulse time, High Channel, DH3

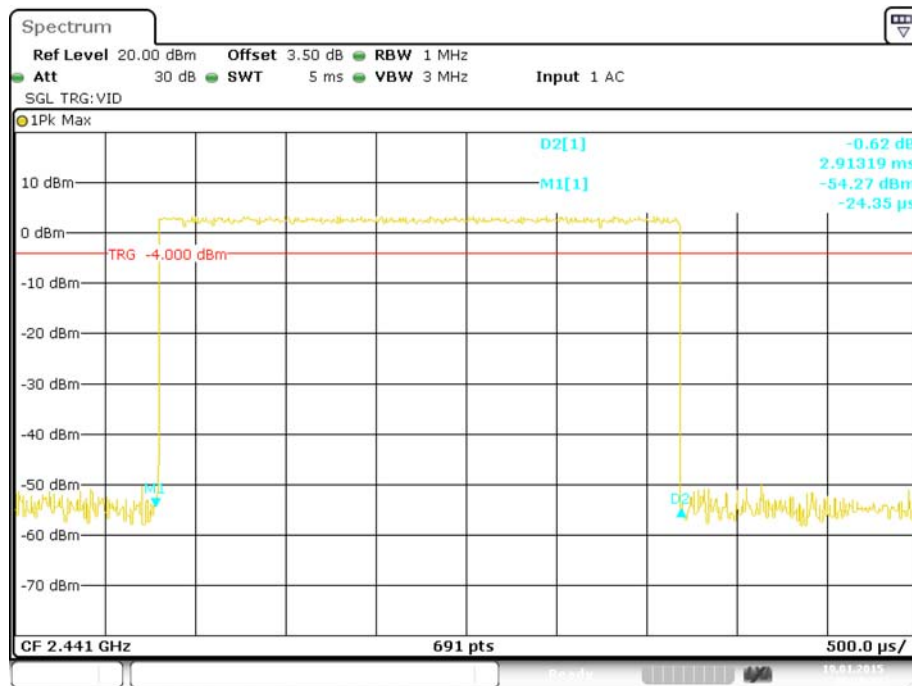


Date: 19.JAN.2015 09:58:58

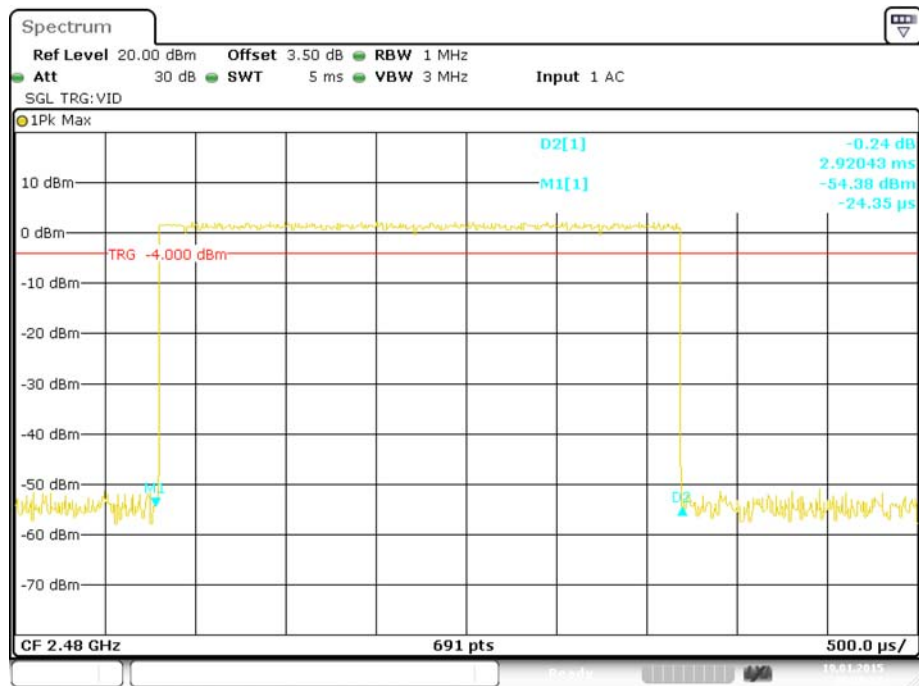
Pulse time, Low Channel, DH5



Pulse time, Middle Channel, DH5



Pulse time, High Channel, DH5



Date: 19.JAN.2015 10:20:50

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
HP	Power Meter	N1912A	MY5000448	2014-11-03	2015-11-03
HP	Power Sensor	N1921A	MY54210016	2014-11-03	2015-11-03

* **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:	21 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by William Li on 2015-01-06.

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	6.43	4.40	1000
	Middle	2441	6.70	4.68	1000
	High	2480	6.66	4.63	1000
EDR ($\pi/4$-DQPSK)	Low	2402	5.87	3.86	1000
	Middle	2441	6.05	4.03	1000
	High	2480	5.82	3.82	1000
EDR (8DPSK)	Low	2402	5.79	3.79	1000
	Middle	2441	6.01	3.99	1000
	High	2480	5.80	3.80	1000

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	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2014-06-13	2015-06-13

* **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

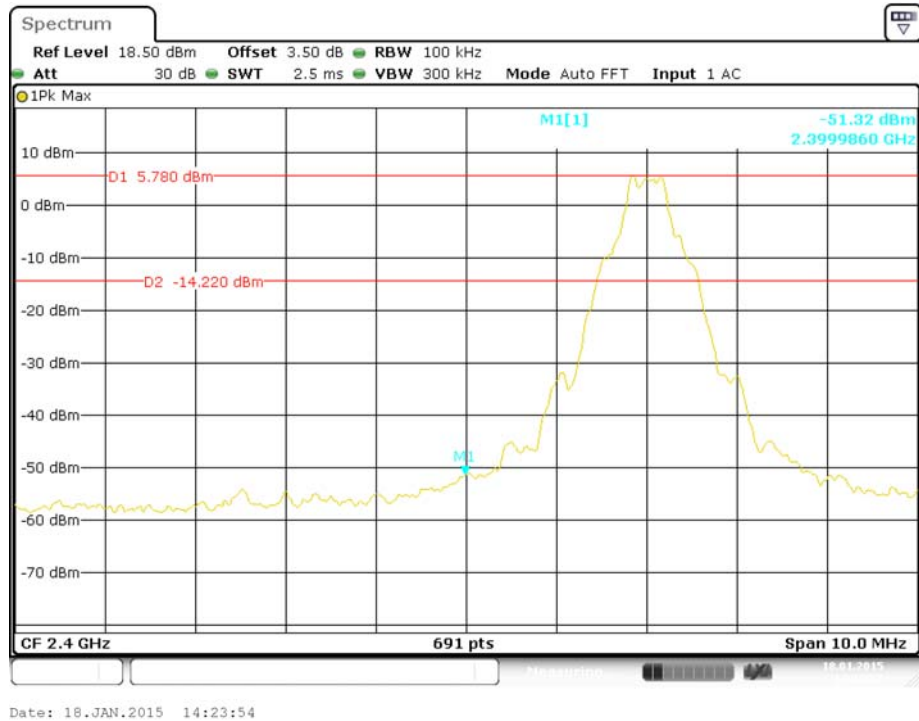
Temperature:	21 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by William Li on 2015-01-06.

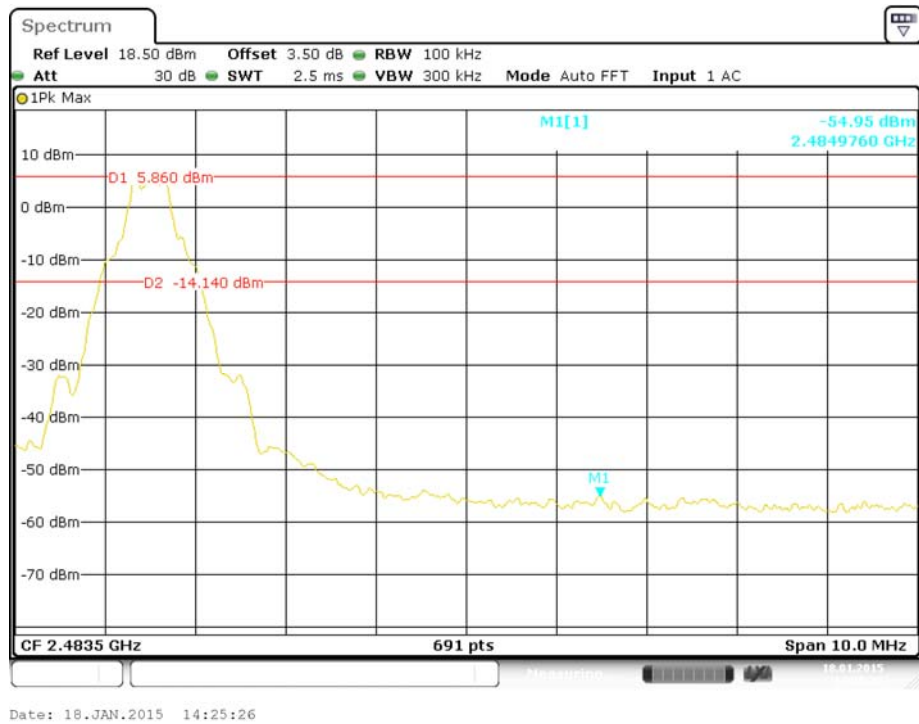
EUT operation mode: Transmitting

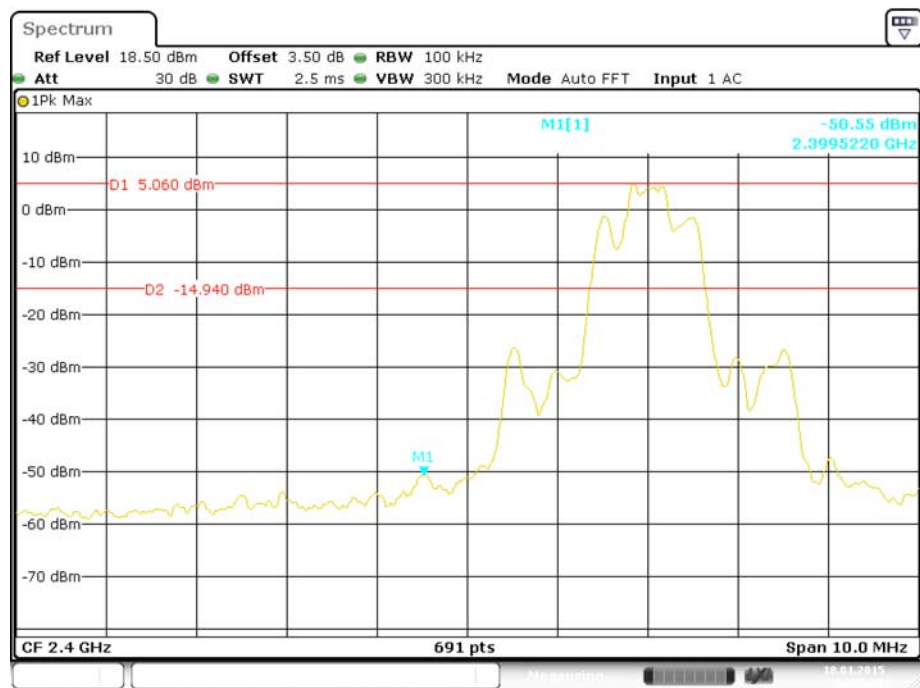
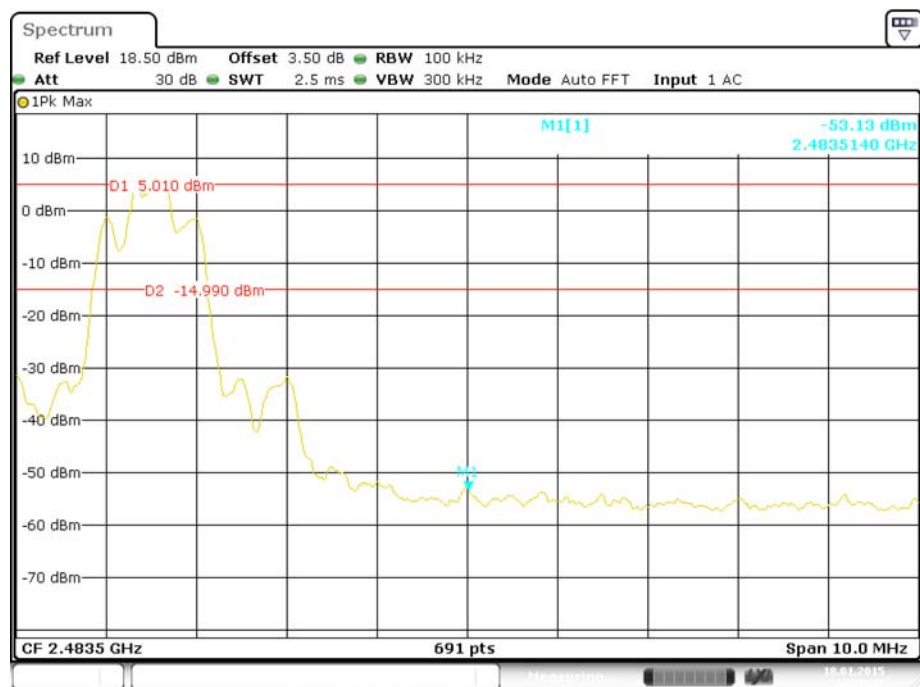
Test Result: Compliance. Please refer to following plots.

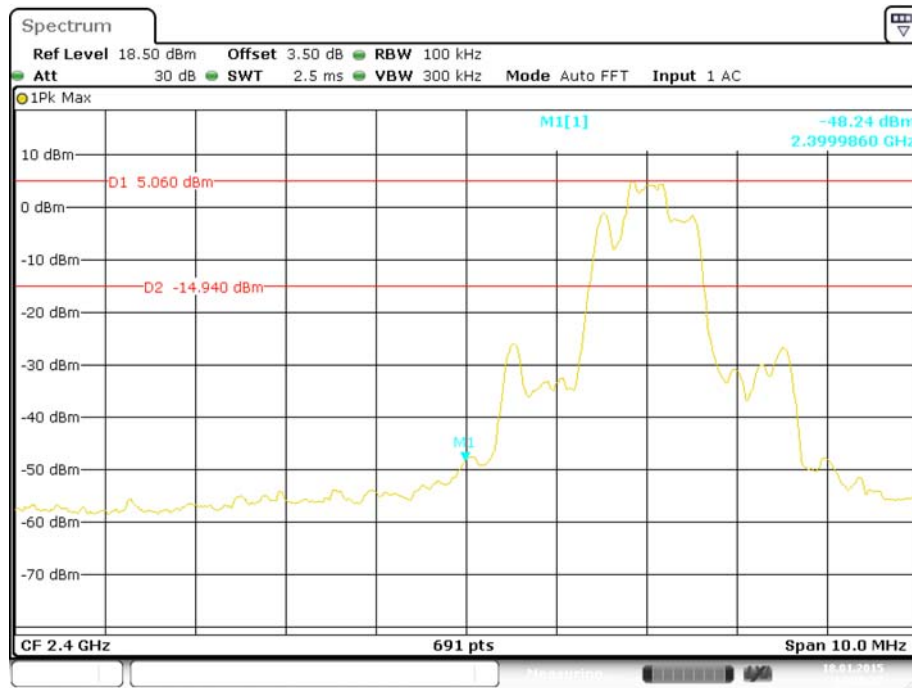
BDR (GFSK): Band Edge-Left Side



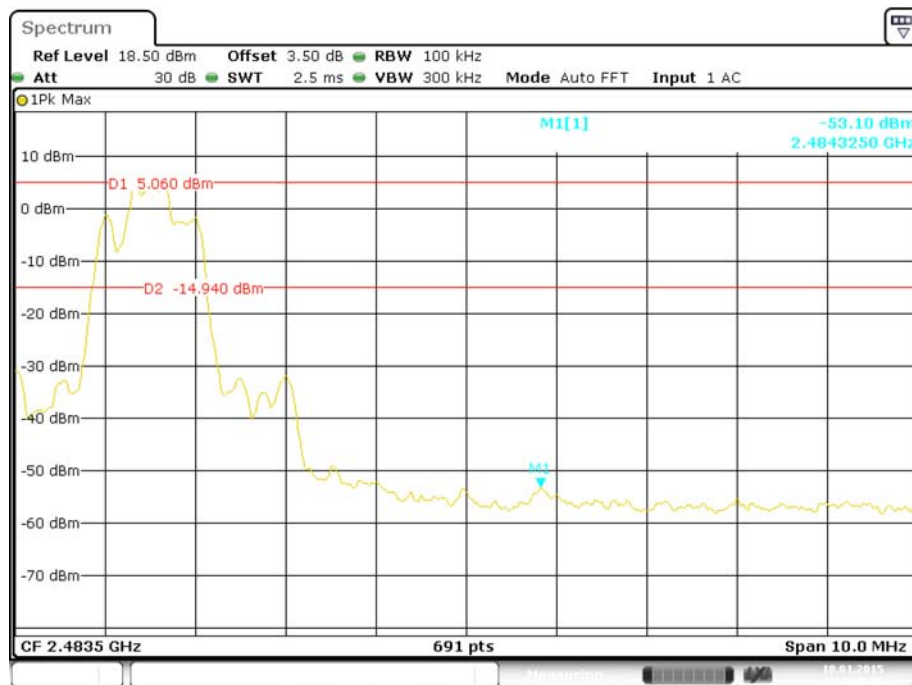
BDR (GFSK): Band Edge-Right Side



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

EDR (8DPSK): Band Edge-Left Side

Date: 18.JAN.2015 14:28:38

BDR (8DPSK): Band Edge-Right Side

Date: 18.JAN.2015 14:29:45

PRODUCT SIMILARITY DECLARATION LETTER



DDM Brands LLC
1616 NW, 84TH Ave. Miami, Florida, U.S.A
Tel: +13057750325 Fax: +13057750325

2014-12-31

Product Similarity Declaration

To Whom It May Concern,

We, DDM Brands LLC, hereby declare that we have a product named as 3G mobile phone (Model number: A3.5E2I) was tested by BACL, meanwhile, for our marketing purpose, we would like to list a series models (Andy 3.5E, Andy 3.5E2I, AM35E2I043, Andy C3.5E, Andy C3.5E2I, AC35E2I043) on reports and certificate, all the models are identical schematics, except for the differences as below,

1, model number is different.

No other changes are made to them.

We confirm that all information above is true, and we'll be responsible for all the consequences. Please contact me if you have any question.

Signature:

Luis Sosa

CEO

A handwritten signature in black ink, appearing to be 'LS' or 'Luis Sosa', is written over the printed name.

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