

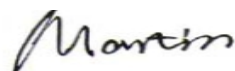
FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No.....: MWR151225104

FCC ID.....: 2AAJDX5

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Date of issue.....: Jan. 14, 2016

Representative Laboratory Name ..: Maxwell International Co., Ltd.

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Applicant's name ETOWAY TECHNOLOGY CO.,LTD.

Address: Room 1005, Building A, Stars Plaza, #38 Hongli Road, Futian, Shenzhen, China

Test specification

Standard: **FCC Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz**

TRF Originator.....: Maxwell International Co., Ltd.

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Test item description Mobile Phone

Trade Mark: MOVILSER

Manufacturer.....: ETOWAY TECHNOLOGY CO.,LTD.

Model/Type reference.....: X5

Listed Models: X51, X52, X53, X54, X55, X56, X57, X58, X59

Modulation Type.....: GFSK

Operation Frequency.....: From 2402MHz to 2480MHz

Rating: DC 3.70V

Hardware version: A825_324_AX_LJ_A9_MOVILSER_B2B5_V1.01_20151219

Software version: T825-A-V1.1

Result.....: **PASS**

TEST REPORT

Test Report No. : MWR151225104	Jan. 14, 2016 Date of issue
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Equipment under Test : Mobile Phone

Model /Type : X5

Listed Models : X51, X52, X53, X54, X55, X56, X57, X58, X59

Applicant : **ETOWAY TECHNOLOGY CO.,LTD.**

Address : Room 1005, Building A, Stars Plaza, #38 Hongli Road,
Futian, Shenzhen, China

Manufacturer : **ETOWAY TECHNOLOGY CO.,LTD.**

Address : Room 1005, Building A, Stars Plaza, #38 Hongli Road,
Futian, Shenzhen, China

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

[ANSI C63.10:2009](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB558074 D01 V03](#): Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Dec. 25, 2015
Testing commenced on	:	Jan. 12, 2016
Testing concluded on	:	Jan. 13, 2016

2.2 Product Description

The **ETOWAY TECHNOLOGY CO.,LTD.**'s Model: X5 or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

Name of EUT	Mobile Phone
Model Number	X5
Modulation Type	GMSK for GSM/GPRS, 8-PSK for EDGE,QPSK for UMTS
Antenna Type	Internal
UMTS Operation Frequency Band	Device supported UMTS FDD Band II/V
WLAN FCC Operation frequency	IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz IEEE 802.11n HT40:2422-2452MHz
BT FCC Operation frequency	2402MHz-2480MHz
HSDPA Release Version	Release 10
HSUPA Release Version	Release 6
DC-HSUPA Release Version	Not Supported
WCDMA Release Version	R99
WLAN FCC Modulation Type	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
BT Modulation Type	GFSK,8DPSK, π /4DQPSK(BT 3.0+EDR)
Hardware version	A825_324_AX_LJ_A9_MOVILSER_B2B5_V1.01_20151219
Software version	T825-A-V1.1
Android version	Android 4.4.2
GPS function	Supported
WLAN	Supported 802.11b/802.11g/802.11n
Bluetooth	Supported BT 4.0/BT 3.0+EDR
GSM/EDGE/GPRS	Supported GSM/GPRS/EDGE
GSM/EDGE/GPRS Power Class	GSM850:Power Class 4/ PCS1900:Power Class 1
GSM/EDGE/GPRS Operation Frequency	GSM850 :824.2MHz-848.8MHz/PCS1900:1850.2MHz-1909.8MHz
GSM/EDGE/GPRS Operation Frequency Band	GSM850/PCS1900/GPRS850/GPRS1900/EDGE850/EDGE1900
GSM Release Version	R99
GPRS/EDGE Multislot Class	GPRS/EDGE: Multi-slot Class 12
Extreme temp. Tolerance	-30°C to +50°C
Extreme vol. Limits	3.15VDC to 4.25VDC (nominal: 3.70VDC)
GPRS operation mode	Class B

2.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐	120V / 60 Hz	☐	115V / 60Hz
		☐	12 V DC	☐	24 V DC
		☒	Other (specified in blank below)		

DC 3.70V

2.4 Description of the test mode

The application provider specific test software to control sample in continuous TX and RX (Duty Cycle >98%)

For testing meet KDB558074 test requirement.

The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. There are 40 channels of EUT, and the test carried out at the lowest channel, middle channel and highest channel

Channel	Frequency(MHz)	Channel	Frequency(MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

2.5 Short description of the Equipment under Test (EUT)

2.5.1 General Description

X5 is subscriber equipment in the WCDMA/GSM system. The HSPA/UMTS frequency band is Band I, Band II, Band V and Band VIII; The GSM/GPRS/EDGE frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900, but only Band II and Band V and GSM850 and PCS1900 bands test data included in this report. The Mobile Phone implements such functions as RF signal receiving/transmitting, HSPA/UMTS and GSM/GPRS/EDGE protocol processing, voice, video MMS service, GPS and WIFI etc. Externally it provides micro SD card interface, earphone port (to provide voice service) and SIM card interface. It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet with a PC, or to exchange data with other Bluetooth devices

NOTE: Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

2.5.2 Customized Configurations

#EUT Conf.	Signal Description	Operating Frequency
TM1_Ch00	GFSK modulation	Ch No. 00/2402MHz
TM1_Ch19	GFSK modulation	Ch No. 19/ 2440MHz
TM1_Ch39	GFSK modulation	Ch No. 39/ 2480MHz

2.6 Test Environments

NOTE: The values used in the test report maybe stringent than the declared.

Environment Parameter	Selected Values During Tests		
NTNV	Temperature	Voltage	Relative Humidity
	Ambient	3.7VDC	Ambient

2.7 EUT operation mode

The EUT has been tested under typical operating condition. The Applicant provides command to control the EUT for staying in continuous transmitting (Duty Cycle >98%) and receiving mode for testing.

2.8 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

○	Power Cable	Length (m) :	/
		Shield :	/
		Detachable :	/
○	Multimeter	Manufacturer :	/
		Model No. :	/

2.9 Internal Identification of AE used during the test

AE ID*	Description
AE1	Charger and USB cable

AE1
Model: X5
INPUT: AC180-240V~ 50/60Hz 0.12A
OUTPUT: DC 5.0V 1000mA

*AE ID: is used to identify the test sample in the lab internally.

2.10 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AAJDX5** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.11 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 22/EN 55022 requirements.

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 9618B

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

FCC-Registration No.: 970318

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 970318, December 19, 2013.

3.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	<u>15-35 ° C</u>
Humidity:	<u>30-60 %</u>
Atmospheric pressure:	<u>950-1050mbar</u>

3.4 Test Description

Test Item	FCC Part No.	Requirements	Verdict
DTS (6 dB) Bandwidth	15.247(a)(2)	≥ 500 kHz.	PASS
Maximum Peak Conducted Output Power	15.247(b)(3)	For directional gain: < 30dBm – (G[dBi] – 6 [dB]), peak; Otherwise : < 30dBm, peak.	PASS
Maximum Power Spectral Density Level	15.247(e)	For directional gain : < 8dBm/3 kHz – (G[dBi] – 6[dB]), peak. Otherwise : < 8dBm/3 kHz, peak.	PASS
Band Edges Compliance	15.247(d)	< -20dBm/100 kHz if total peak power ≤ power limit.	PASS
Unwanted Emissions into Non-Restricted Frequency Bands	15.247(d)	< -20dBm/100 kHz if total peak power ≤ power limit.	PASS
Unwanted Emissions into Restricted Frequency Bands (Conducted)	15.247(d) 15.209	< -20dBm/100 kHz if total peak power ≤ power limit.	PASS
Unwanted Emissions into Restricted Frequency Bands (Radiated)	15.247(d) 15.209	FCC Part 15.209 field strength limit;	PASS
AC Power Line Conducted Emissions	15.207	FCC Part 15.207 conducted limit;	PASS

Remark: The measurement uncertainty is not included in the test result.

3.5 Summary of measurement results

Test Specification clause	Test case	Test Mode	Test Channel	Recorded In Report		Pass	Fail	NA	NP	Remark
§15.247(b)(4)	Antenna gain	GFSK	☒ Lowest ☒ Middle ☒ Highest	GFSK	☒ Lowest ☒ Middle ☒ Highest	☒	☐	☐	☐	complies
§15.247(e)	Power spectral density	GFSK	☒ Lowest ☒ Middle ☒ Highest	GFSK	☒ Lowest ☒ Middle ☒ Highest	☒	☐	☐	☐	complies
§15.247(a)(1)	Spectrum bandwidth – 6 dB bandwidth	GFSK	☒ Lowest ☒ Middle ☒ Highest	GFSK	☒ Lowest ☒ Middle ☒ Highest	☒ ☒	☐	☐	☐	complies
§15.247(b)(1)	Maximum output power	GFSK	☒ Lowest ☒ Middle ☒ Highest	GFSK	☒ Lowest ☒ Middle ☒ Highest	☒ ☒ ☒	☐	☐	☐	complies
§15.247(d)	Band edge compliance conducted	GFSK	☒ Lowest ☒ Highest	GFSK	☒ Lowest ☒ Highest	☒ ☒	☐	☐	☐	complies
§15.205	Band edge compliance radiated	GFSK	☒ Lowest ☒ Highest	GFSK	☒ Lowest ☒ Highest	☒	☐	☐	☐	complies
§15.247(d)	TX spurious emissions conducted	GFSK	☒ Lowest ☒ Middle ☒ Highest	GFSK	☒ Lowest ☒ Middle ☒ Highest	☒ ☒	☐	☐	☐	complies
§15.247(d)	TX spurious emissions radiated	GFSK	☒ Lowest ☒ Middle ☒ Highest	GFSK	☒ Lowest ☒ Middle ☒ Highest	☒	☐	☐	☐	complies
§15.109	RX spurious emissions radiated	-/-	-/-	-/-	-/-	☒	☐	☐	☐	complies
§15.209(a)	TX spurious Emissions radiated < 30 MHz	GFSK	-/-	GFSK	-/-	☒	☐	☐	☐	complies
§15.107(a) §15.207	Conducted Emissions < 30 MHz	GFSK	-/-	GFSK	-/-	☒	☐	☐	☐	complies

Remark:

1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed

3.6 Test Conditions

Test Case	Test Conditions	
	Configuration	Description
DTS (6 dB) Bandwidth	Measurement Method	FCC KDB 558074 §8.2 Option 2
	Test Environment	NTNV
	EUT Configuration	TM1_Ch00, TM1_Ch19, TM1_Ch39
Maximum Peak Conducted Output Power	Measurement Method	FCC KDB 558074 §9.1.2
	Test Environment	NTNV
	EUT Configuration	TM1_Ch00, TM1_Ch19, TM1_Ch39
Maximum Power Spectral Density Level	Measurement Method	FCC KDB 558074 §10.2 (peak PSD).
	Test Environment	NTNV
	EUT Configuration	TM1_Ch00, TM1_Ch19, TM1_Ch39
Unwanted Emissions into Non-Restricted Frequency Bands	Measurement Method	FCC KDB 558074 §11.0
	Test Environment	NTNV
	EUT Configuration	T TM1_Ch00, TM1_Ch19, TM1_Ch39
Unwanted Emissions into Restricted Frequency Bands (Conducted)	Measurement Method	FCC KDB 558074 §12.2, Conducted (antenna-port).
	Test Environment	NTNV
	EUT Configuration	TM1_Ch00, TM1_Ch19, TM1_Ch39

Unwanted Emissions into Restricted	Measurement Method	FCC KDB 558074§12.1,Radiated(cabinet/case emissions with Impedance matching for antenna-port).
	EUT Configuration	TM1_Ch00, TM1_Ch19, TM1_Ch39

Test Case	Test Conditions	
	Configuration	Description
AC Power Line Conducted Emissions	Measurement Method	AC mains conducted.
	Test Environment	NTNV
	EUT Configuration	TM1_Ch19 (Worst Conf.).

Note: For Radiated Emissions, By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that “Z axis” position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

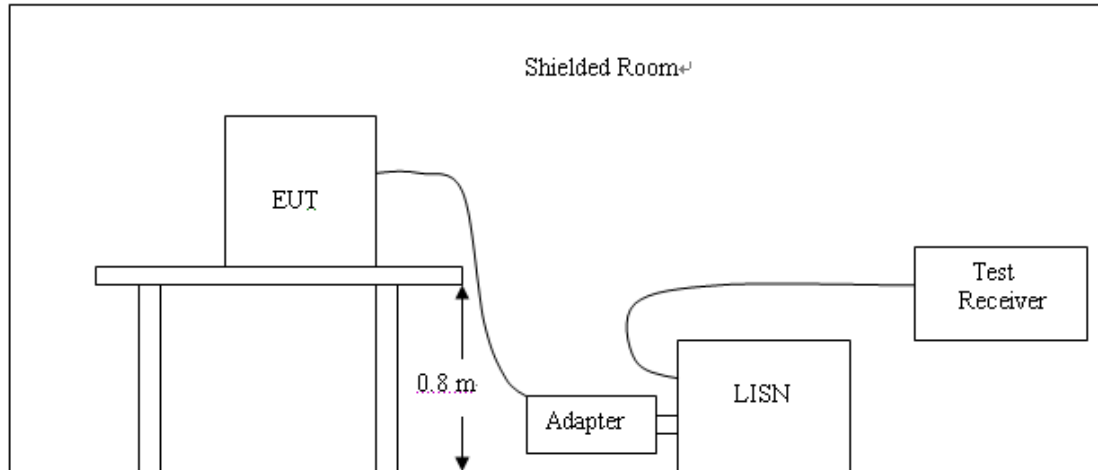
3.7 Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	3560.6550.12	2015/06/02	2016/06/01
LISN	R&S	ESH2-Z5	860014/010	2015/06/02	2016/06/01
Bilog Antenna	Sunol Sciences Corp.	JB1	A061713	2015/06/02	2016/06/01
EMI Test Receiver	R&S	ESCI	103710	2015/06/02	2016/06/01
Spectrum Analyzer	Agilent	N9030A	MY49430428	2015/05/21	2016/05/20
Controller	EM Electronics	Controller EM 1000	N/A	2015/05/21	2016/05/20
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2015/05/19	2016/05/18
Active Loop Antenna	SCHWARZBECK	FMZB1519	1519-037	2015/05/19	2016/05/18
Amplifier	Agilent	8349B	3008A02306	2015/05/19	2016/05/18
Amplifier	Agilent	8447D	2944A10176	2015/05/19	2016/05/18
Temperature/ Humidity Meter	Gangxing	CTH-608	02	2015/05/20	2016/05/19
High-Pass Filter	K&L	9SH10-2700/X12750-O/O	N/A	2015/05/20	2016/05/19
High-Pass Filter	K&L	41H10-1375/U12750-O/O	N/A	2015/05/20	2016/05/19
Coaxial Cables	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	2015/06/02	2016/06/01
Coaxial Cables	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	2015/06/02	2016/06/01
Coaxial Cables	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	2015/06/02	2016/06/01
RF Cable	Megalon	RF-A303	N/A	2015/06/02	2016/06/01
Power Sensor	R&S	NRP-Z4	823.3618.03	2015.06.02	2016.06.01
Power Meter	R&S	NRVS	1020.1809.02	2015.06.02	2016.06.01

4 TEST CONDITIONS AND RESULTS

4.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
2. Support equipment, if needed, was placed as per ANSI C63.10-2013
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
4. The EUT received DC5V power from the adapter, the adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Frequency (MHz)	Maximum RF Line Voltage (dBμV)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

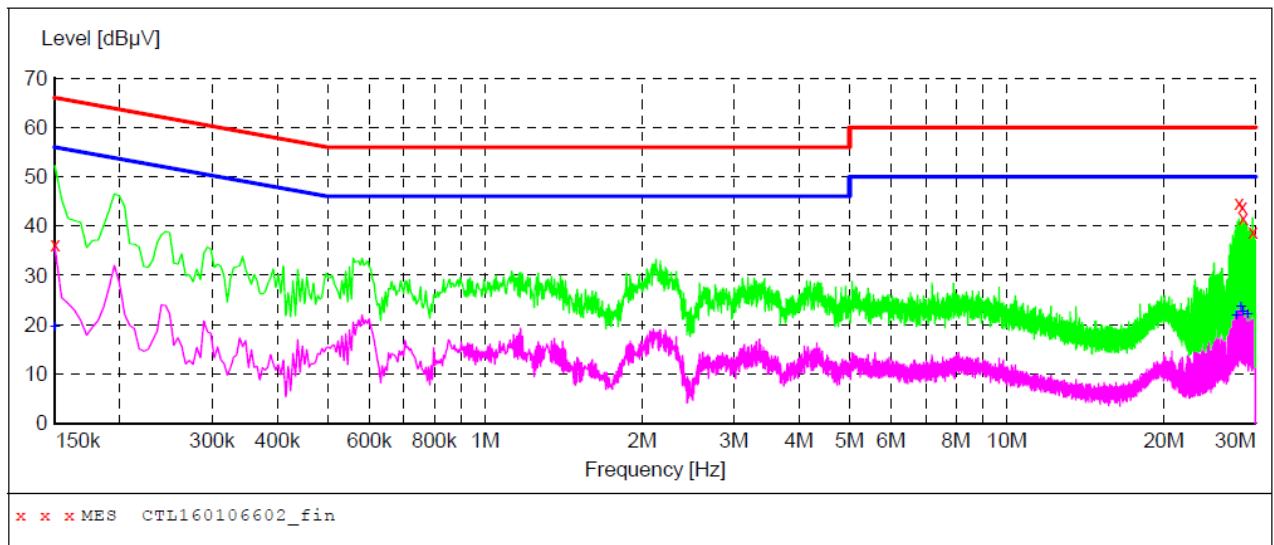
TEST RESULTS

The AC Power Conducted Emission measurement is performed at both TX and RX (Idle) mode, recorded worst case at TX mode..

L:

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "CTL160106602_fin"**

1/6/2016 9:07AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150001	36.40	10.2	66	29.6	QP	L1	GND
27.919501	44.80	11.2	60	15.2	QP	L1	GND
28.279501	43.80	11.2	60	16.2	QP	L1	GND
28.401001	41.70	11.2	60	18.3	QP	L1	GND
29.607001	38.70	11.3	60	21.3	QP	L1	GND

MEASUREMENT RESULT: "CTL160106602_fin2"

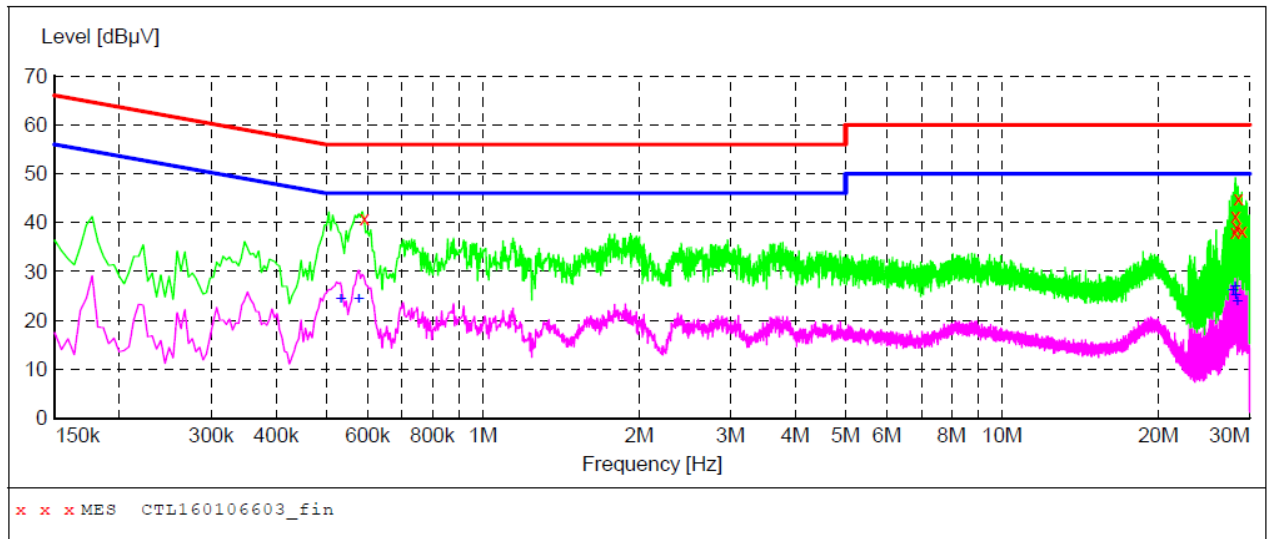
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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150001	19.40	10.2	56	36.6	AV	L1	GND
27.555001	21.80	11.2	50	28.2	AV	L1	GND
28.099501	23.60	11.2	50	26.4	AV	L1	GND
28.401001	22.40	11.2	50	27.6	AV	L1	GND
28.999501	21.90	11.2	50	28.1	AV	L1	GND

N:

SCAN TABLE: "Voltage (9K-30M) FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "CTL160106603_fin"**

1/6/2016 9:16AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.591001	40.80	10.2	56	15.2	QP	N	GND
28.095001	38.00	11.2	60	22.0	QP	N	GND
28.158001	41.30	11.2	60	18.7	QP	N	GND
28.275001	39.10	11.2	60	20.9	QP	N	GND
28.518001	44.90	11.2	60	15.1	QP	N	GND
28.999501	38.20	11.2	60	21.8	QP	N	GND

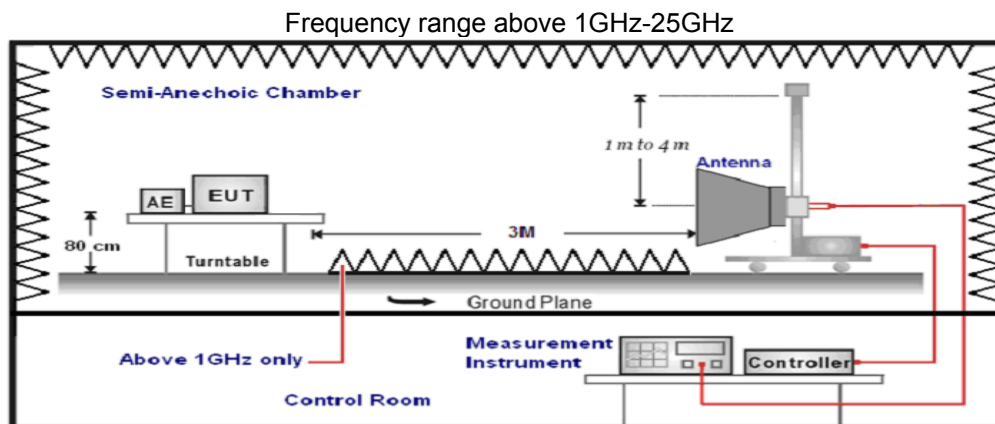
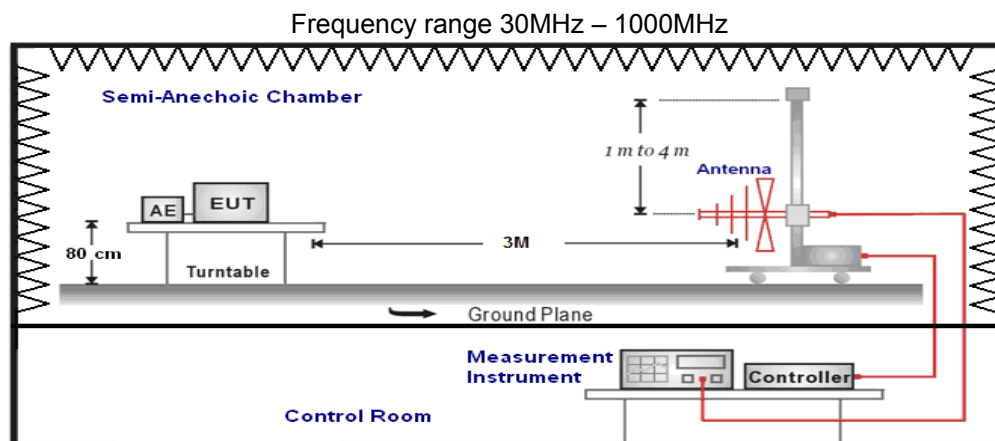
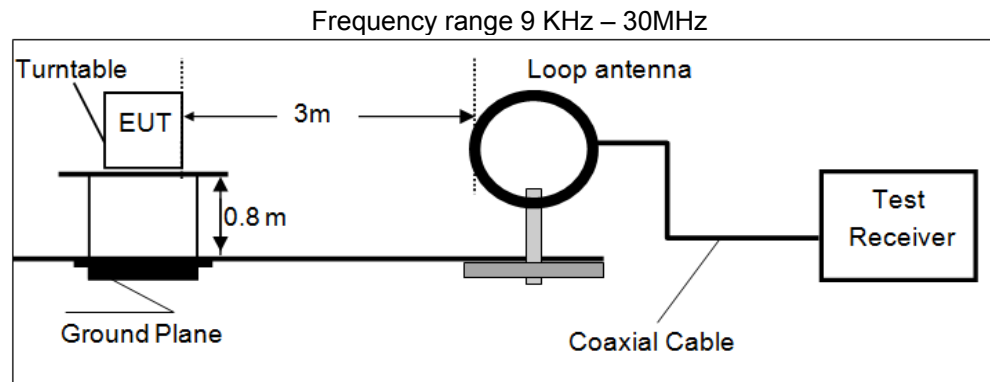
MEASUREMENT RESULT: "CTL160106603_fin2"

1/6/2016 9:16AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.532501	24.20	10.2	46	21.8	AV	N	GND
0.577501	24.30	10.2	46	21.7	AV	N	GND
27.856501	26.10	11.2	50	23.9	AV	N	GND
28.095001	26.80	11.2	50	23.2	AV	N	GND
28.158001	25.00	11.2	50	25.0	AV	N	GND
28.396501	23.70	11.2	50	26.3	AV	N	GND

4.2 Radiated Emissions and Band Edge

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. The EUT minimum operation frequency was 32.768 KHz and maximum operation frequency was 2480MHz.so radiated emission test frequency band from 9 KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto	Peak (Receiver)
	Average Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto	Average (Receiver)

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

For example

Frequency (MHz)	FS (dBμV/m)	RA (dBμV/m)	AF (dB)	CL (dB)	AG (dB)	Transd (dB)
300.00	40	58.1	12.2	1.6	31.90	-18.1

$$\text{Transd} = \text{AF} + \text{CL} - \text{AG}$$

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance. 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)

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	300	$20\log(2400/F(\text{KHz}))+80$	$2400/F(\text{KHz})$
0.49-1.705	30	$20\log(24000/F(\text{KHz}))+40$	$24000/F(\text{KHz})$
1.705-30	30	$20\log(30)+40$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

Remark:

1. The radiated measurement are performed the each channel (low/mid/high), the datum recorded below (the middle channel) is the worst case for all test channels.
2. ULTRA-BROADBAND ANTENNA for the radiation emission test below 1G.
3. HORN ANTENNA for the radiation emission test above 1G.
4. We tested both battery powered and powered by adapter charging mode at three orientations, recorded worst case at powered by adapter charging mode.
5. "---" means not recorded as emission levels lower than limit.
6. Margin= Limit - Level

For 9KHz to 30MHz

Frequency (MHz)	Corrected Reading (dB μ V/m)@3m	FCC Limit (dB μ V/m) @3m	Margin (dB)	Detector	Result
12.65	47.52	69.54	22.02	QP	PASS
20.14	45.36	69.54	24.18	QP	PASS

For 30MHz to 1000MHz

Polarization

Horizontal

SWEEP TABLE: "test (30M-1G)"

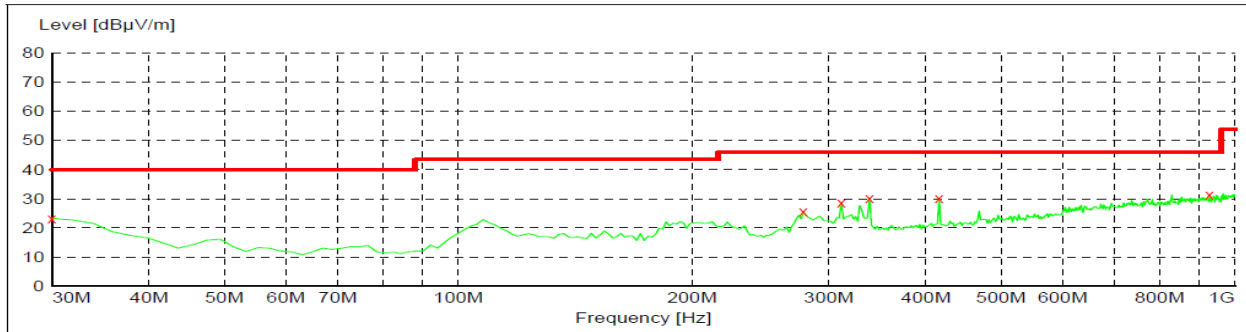
Short Description:Field Strength

StartStopDetectorMeas. IFTransducer

FrequencyFrequencyTimeBandw.

30.0 MHz1.0 GHzMaxPeak300.0 ms120 kHzJB1

Level [dBμV/m]



x x x MES CTL160107018_red

MEASUREMENT RESULT: "CTL160107018_red"

1/7/2016 1:43PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	23.20	20.8	40.0	16.8	---	0.0	0.00	HORIZONTAL
278.320000	25.50	15.2	46.0	20.5	---	0.0	0.00	HORIZONTAL
311.300000	28.70	15.5	46.0	17.3	---	0.0	0.00	HORIZONTAL
338.460000	30.30	16.4	46.0	15.7	---	0.0	0.00	HORIZONTAL
416.060000	30.30	18.5	46.0	15.7	---	0.0	0.00	HORIZONTAL
928.220000	31.50	26.2	46.0	14.5	---	0.0	0.00	HORIZONTAL

Polarization

Vertical

SWEEP TABLE: "test (30M-1G)"

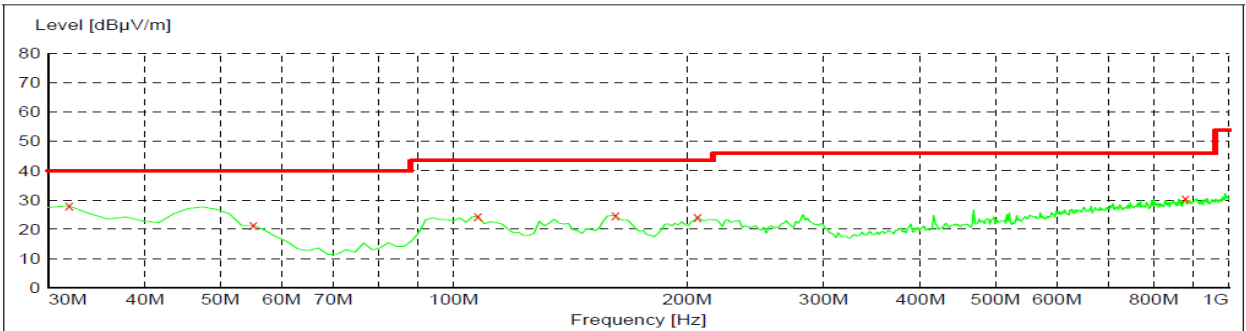
Short Description:Field Strength

StartStopDetectorMeas. IFTransducer

FrequencyFrequencyTimeBandw.

30.0 MHz1.0 GHzMaxPeak300.0 ms120 kHzJB1

Level [dBμV/m]



x x x MES CTL160107017_red

MEASUREMENT RESULT: "CTL160107017_red"

1/7/2016 1:42PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
31.940000	27.90	19.2	40.0	12.1	---	0.0	0.00	VERTICAL
55.220000	21.30	8.0	40.0	18.7	---	0.0	0.00	VERTICAL
107.600000	24.50	12.9	43.5	19.0	---	0.0	0.00	VERTICAL
161.920000	24.70	13.6	43.5	18.8	---	0.0	0.00	VERTICAL
206.540000	24.20	14.1	43.5	19.3	---	0.0	0.00	VERTICAL
879.720000	30.60	25.5	46.0	15.4	---	0.0	0.00	VERTICAL

For 1GHz to 25GHz

Frequency(MHz):				2402		Polarity:			HORIZONTAL	
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	2402.00	80.58	PK	--	--	47.18	28.78	4.61	0.00	33.40
1	2402.00	72.41	AV	--	--	39.01	28.78	4.61	0.00	33.40
2	2390.00	36.85	PK	74	37.15	3.53	28.72	4.60	0.00	33.32
2	2390.00	--	AV	54	--	--	--	--	--	--
3	2400.00	38.78	PK	74	35.22	5.39	28.78	4.61	0.00	33.39
3	2400.00	--	AV	54	--	--	--	--	--	--
4	4804.00	47.56	PK	74	26.44	43.05	33.49	6.91	35.89	4.51
4	4804.00	--	AV	54	--	--	--	--	--	--
5	5115.75	44.78	PK	74	29.22	37.59	34.36	7.10	34.27	7.19
5	5115.75	--	AV	54	--	--	--	--	--	--
6	7206.00	46.21	PK	74	27.79	35.10	36.95	9.18	35.03	11.11
6	7206.00	--	AV	54	--	--	--	--	--	--

Frequency(MHz):				2402		Polarity:			VERTICAL	
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	2402.00	80.18	PK	--	--	46.78	28.78	4.61	0.00	33.40
1	2402.00	72.56	AV	--	--	39.16	28.78	4.61	0.00	33.40
2	2390.00	36.80	PK	74	37.2	3.48	28.72	4.60	0.00	33.32
2	2390.00	--	AV	54	--	--	--	--	--	--
3	2400.00	38.88	PK	74	35.12	5.49	28.78	4.61	0.00	33.39
3	2400.00	--	AV	54	--	--	--	--	--	--
4	4804.00	48.22	PK	74	25.78	43.71	33.49	6.91	35.89	4.51
4	4804.00	--	AV	54	--	--	--	--	--	--
5	5325.50	45.65	PK	74	28.35	38.12	34.67	7.22	34.35	7.53
5	5325.50	--	AV	54	--	--	--	--	--	--
6	7206.00	46.74	PK	74	27.26	35.63	36.95	9.18	35.03	11.11
6	7206.00	--	AV	54	--	--	--	--	--	--

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Limit value- Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. The other emission levels were very low against the limit.
6. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Frequency(MHz):				2440		Polarity:			HORIZONTAL	
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	2440.00	81.55	PK	--	--	48.04	28.85	4.65	0.00	33.51
1	2440.00	73.41	AV	--	--	39.90	28.85	4.65	0.00	33.51
2	4052.25	40.65	PK	74	33.35	36.04	32.96	6.43	34.77	4.61
2	4052.25	--	AV	54	--	--	--	--	--	--
3	4880.00	48.87	PK	74	25.13	42.62	33.60	6.95	34.30	6.25
3	4880.00	--	AV	54	--	--	--	--	--	--
4	5175.50	45.66	PK	74	28.34	38.17	34.49	7.13	34.13	7.49
4	5175.50	--	AV	54	--	--	--	--	--	--
5	7320.00	46.11	PK	74	27.89	34.42	37.46	9.23	35.00	11.69
5	7320.00	--	AV	54	--	--	--	--	--	--

Frequency(MHz):				2440		Polarity:			VERTICAL	
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	2440.00	81.69	PK	--	--	48.18	28.85	4.65	0.00	33.51
1	2440.00	73.58	AV	--	--	40.07	28.85	4.65	0.00	33.51
2	4330.50	40.32	PK	74	33.68	35.49	32.84	6.61	34.61	4.83
2	4330.50	--	AV	54	--	--	--	--	--	--
3	4880.00	47.63	PK	74	26.37	41.38	33.60	6.95	34.30	6.25
3	4880.00	--	AV	54	--	--	--	--	--	--
4	5175.50	45.73	PK	74	28.27	38.24	34.49	7.13	34.13	7.49
4	5175.50	--	AV	54	--	--	--	--	--	--
5	7320.00	45.47	PK	74	28.53	33.78	37.46	9.23	35.00	11.69
5	7320.00	--	AV	54	--	--	--	--	--	--

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Limit value- Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. The other emission levels were very low against the limit.
6. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Frequency(MHz):				2480		Polarity:			HORIZONTAL	
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	2480.00	80.32	PK	--	--	46.70	28.92	4.70	0.00	33.62
1	2480.00	72.74	AV	--	--	39.12	28.92	4.70	0.00	33.62
2	2483.50	38.98	PK	74	35.02	5.35	28.93	4.70	0.00	33.63
2	2483.50	--	AV	54	--	--	--	--	--	--
3	2500.00	36.47	PK	74	37.53	2.79	28.96	4.72	0.00	33.68
3	2500.00	--	AV	54	--	--	--	--	--	--
4	4960.00	48.69	PK	74	25.31	43.77	33.84	7.00	35.92	4.92
4	4960.00	--	AV	54	--	--	--	--	--	--
5	5025.50	43.51	PK	74	30.49	36.63	34.07	7.05	34.24	6.88
5	5025.50	--	AV	54	--	--	--	--	--	--
6	7440.00	41.78	PK	74	32.22	29.83	37.64	9.28	34.97	11.95
6	7440.00	--	AV	54	--	--	--	--	--	--

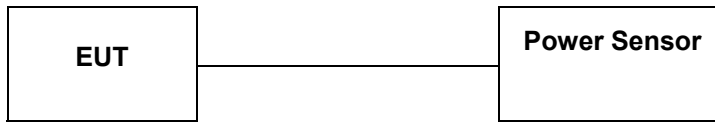
Frequency(MHz):				2480		Polarity:			VERTICAL	
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	2480.00	80.48	PK	--	--	46.86	28.92	4.70	0.00	33.62
1	2480.00	72.23	AV	--	--	38.61	28.92	4.70	0.00	33.62
2	2483.50	38.84	PK	74	35.16	5.21	28.93	4.70	0.00	33.63
2	2483.50	--	AV	54	--	--	--	--	--	--
3	2500.00	36.21	PK	74	37.79	2.53	28.96	4.72	0.00	33.68
3	2500.00	--	AV	54	--	--	--	--	--	--
4	4960.00	48.55	PK	74	25.45	43.63	33.84	7.00	35.92	4.92
4	4960.00	--	AV	54	--	--	--	--	--	--
5	5415.25	43.47	PK	74	30.53	35.84	34.74	7.27	34.38	7.63
5	5415.25	--	AV	54	--	--	--	--	--	--
6	7440.00	42.31	PK	74	31.69	30.36	37.64	9.28	34.97	11.95
6	7440.00	--	AV	54	--	--	--	--	--	--

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Limit value- Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. The other emission levels were very low against the limit.
6. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

4.3 Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to KDB558074 D01 DTS Mea Guidance v03r02 9.1.2 PKPM1 Peak power meter method “The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.”

LIMIT

The Maximum Peak Output Power Measurement is 30dBm.

TEST RESULTS

A. Test Verdict

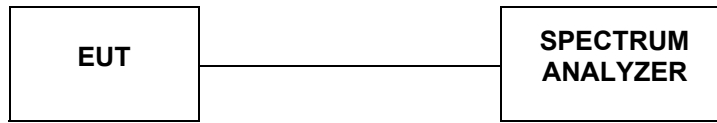
Channel	Frequency (MHz)	Measured Output Peak Power (dBm)	Limits (dBm)	Verdict
00	2402	-1.57	30	PASS
19	2440	-2.31	30	PASS
39	2480	-2.62	30	PASS

Note:

1. The test results including the cable lose.

4.4 Power Spectral Density

TEST CONFIGURATION



TEST PROCEDURE

According to KDB 558074 D01 V03 Method PKPSD (peak PSD) this procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \text{ RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

LIMIT

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST RESULTS

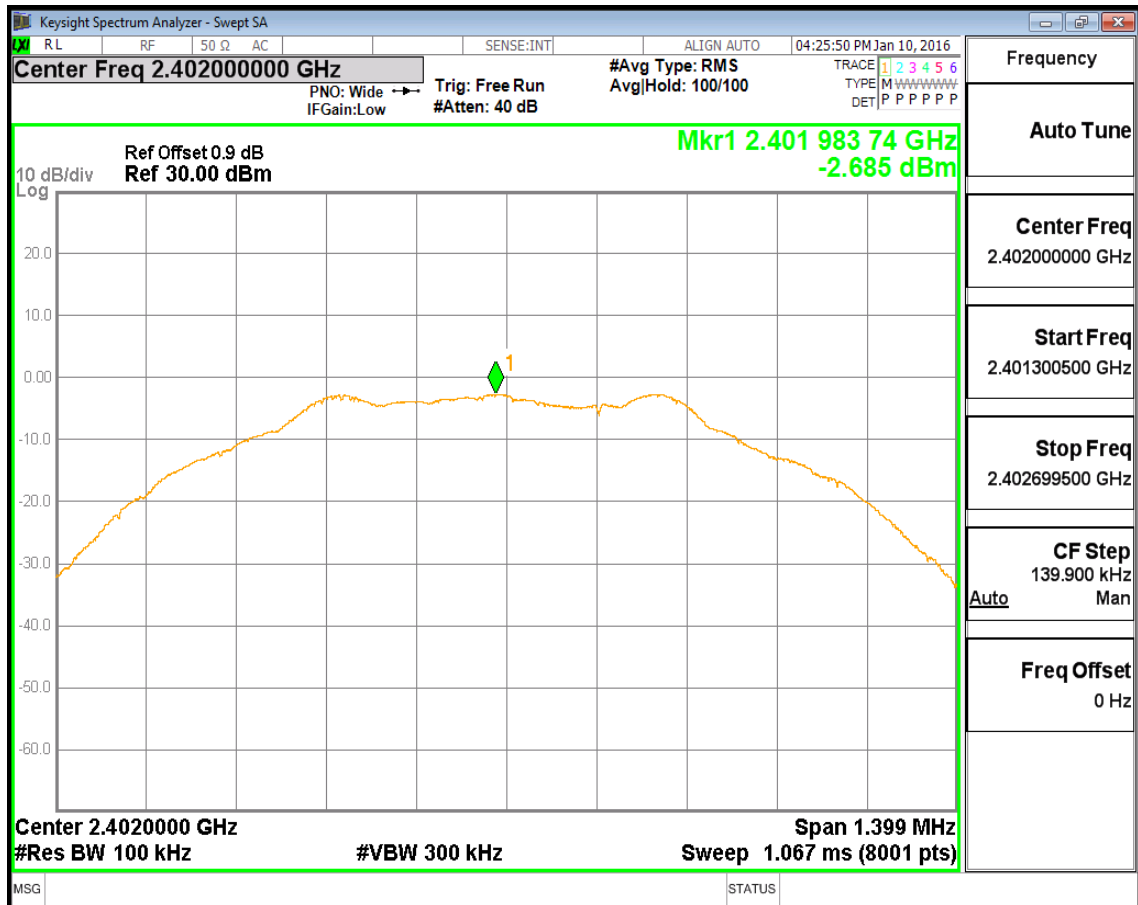
A. Test Verdict

Channel	Frequency (MHz)	Report PSD (dBm/100kHz)	Refer to Plot	Limits (dBm/3KHz)	Verdict
00	2402	-2.685	Plot 4.4.1 A	8	PASS
19	2440	-3.408	Plot 4.4.1 B	8	PASS
39	2480	-3.667	Plot 4.4.1 C	8	PASS

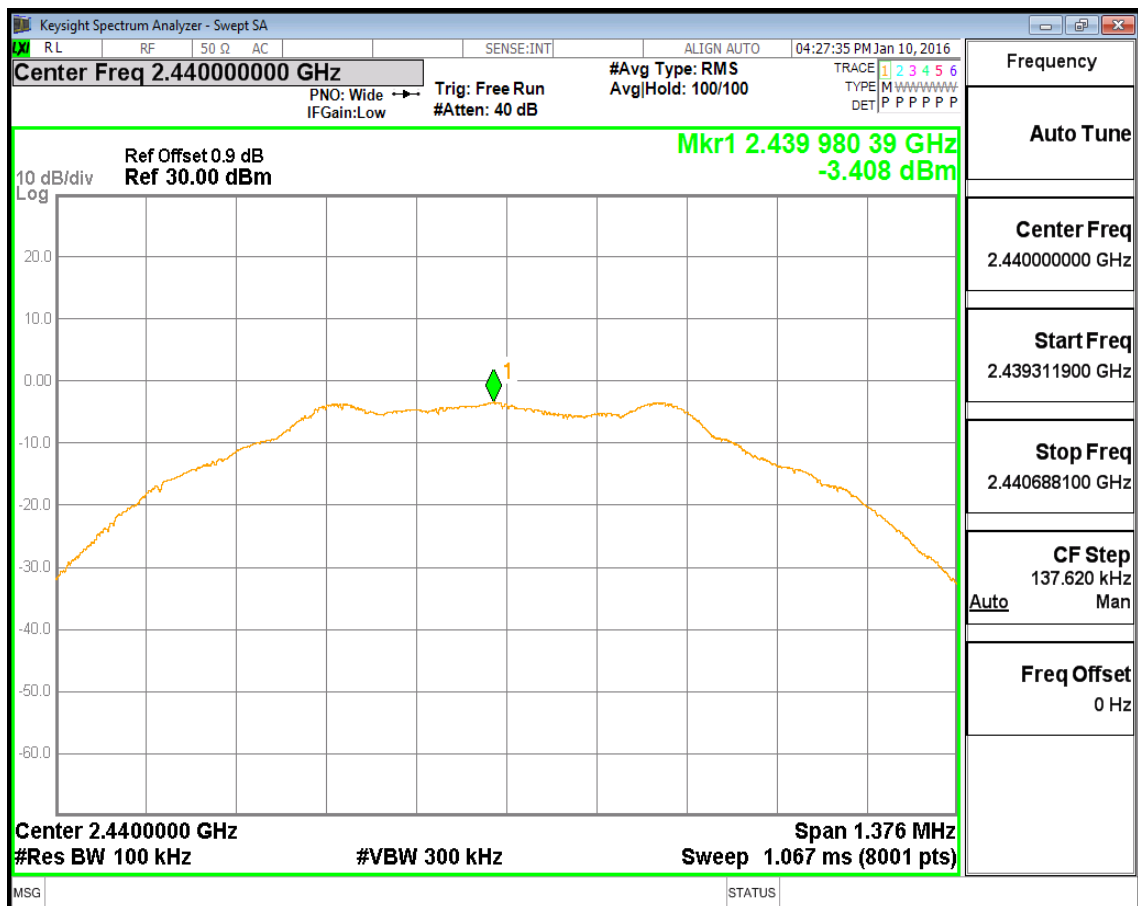
Note

1. The test results including the cable loss.

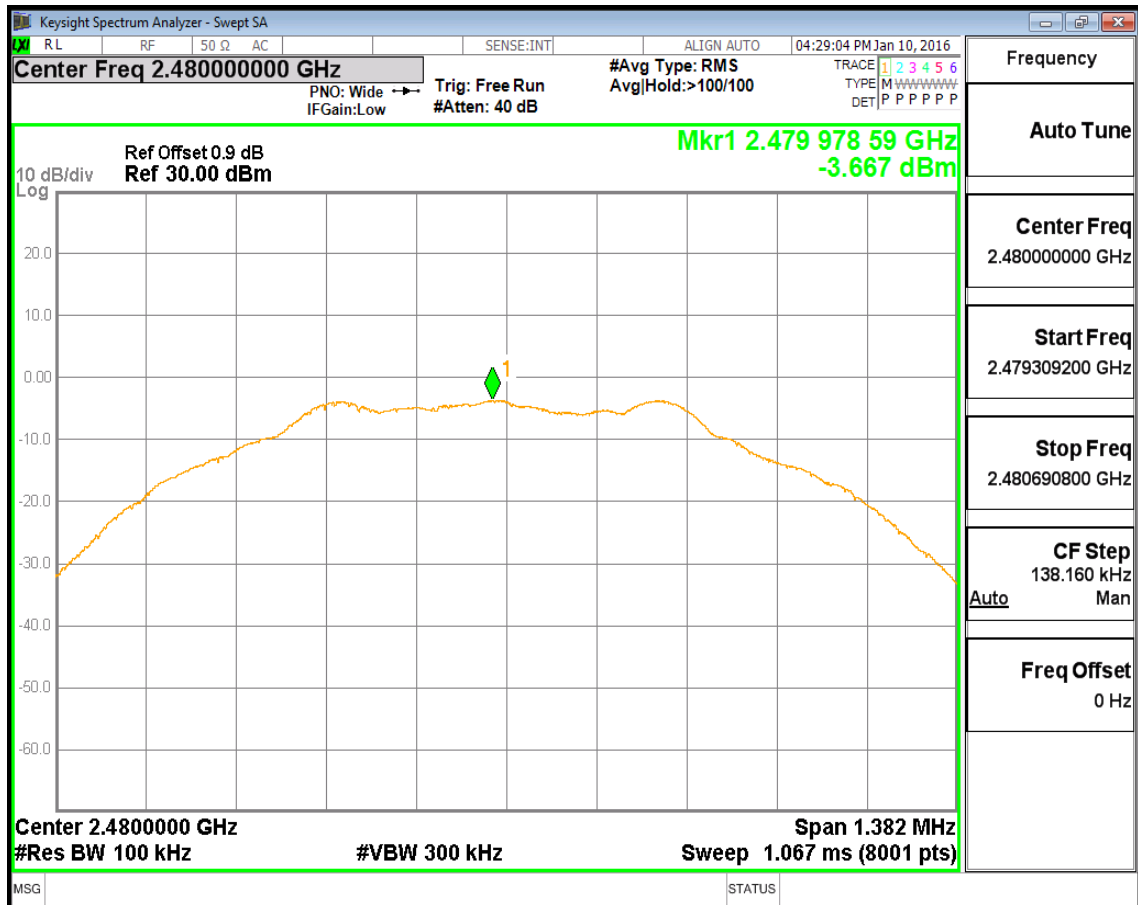
B. Test Plots



(Plot 4.4.1 A: Channel 00: 2402 MHz @ GFSK)



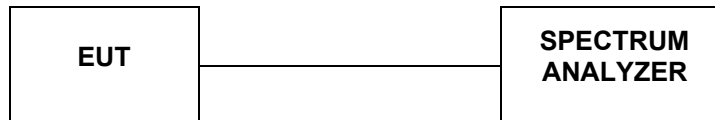
(Plot 4.4.1 B: Channel 19: 2440 MHz @ GFSK)



(Plot 4.4.1 C: Channel 39: 2480 MHz @ GFSK

4.5 Spurious RF Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2009 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100 kHz and VBW= 300 KHz to measure the peak field strength, and measure frequency range from 9 KHz to 26.5GHz.

LIMIT

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

TEST RESULTS

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandedge measurement data.

TEST RESULTS

Remark: The measurement frequency range is from 9 KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandedge measurement data.

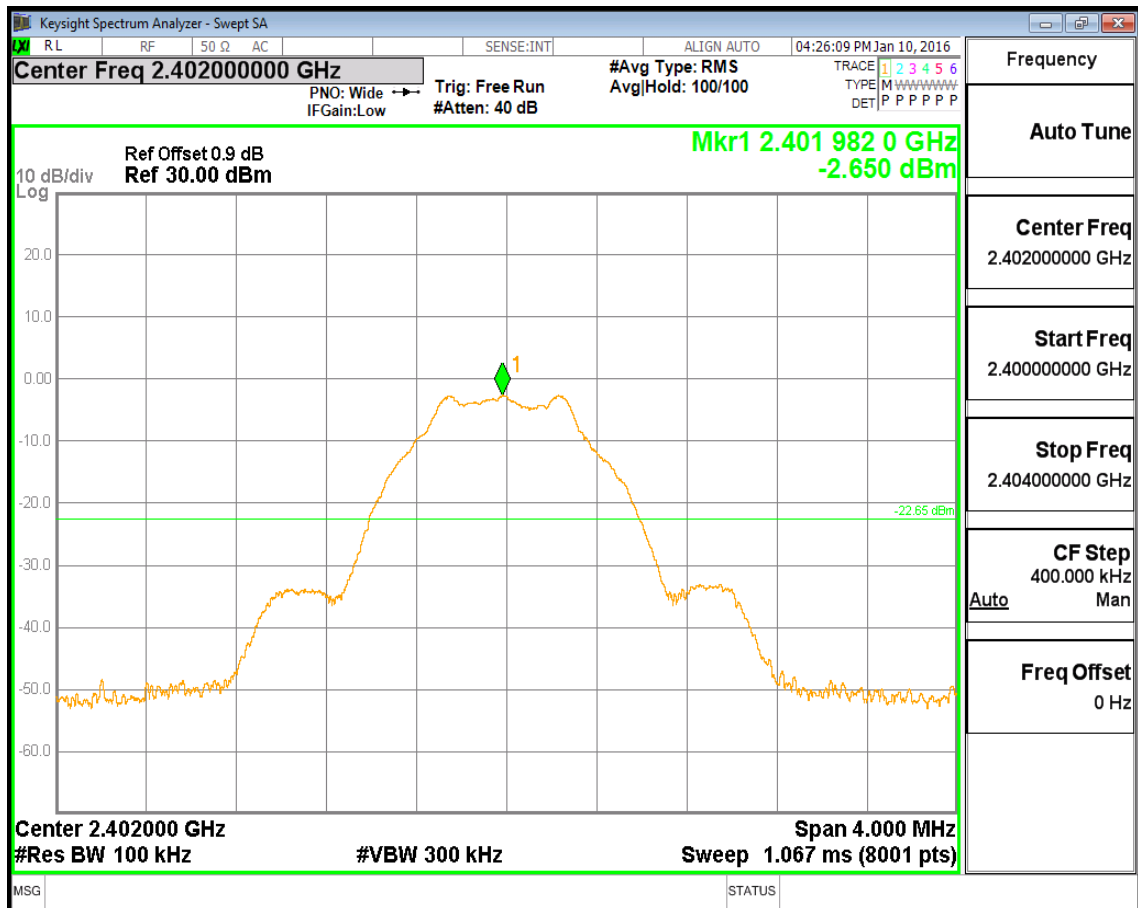
A. Test Verdict

Channel	Frequency (MHz)	Frequency Range	Refer to Plot	Limit (dBc)	Verdict
00	2402	2.402 GHz	Plot 4.5.1 A1	---	PASS
		30MHz-3 GHz	Plot 4.5.1 A2	-20	PASS
		3GHz-5GHz	Plot 4.5.1 A3	-20	PASS
		5GHz-10GHz	Plot 4.5.1 A4	-20	PASS
		10GHz-15GHz	Plot 4.5.1 A5	-20	PASS
		15GHz-25GHz	Plot 4.5.1 A6	-20	PASS
19	2440	2.440 GHz	Plot 4.5.1 B1	---	PASS
		30MHz-3 GHz	Plot 4.5.1 B2	-20	PASS
		3GHz-5GHz	Plot 4.5.1 B3	-20	PASS
		5GHz-10GHz	Plot 4.5.1 B4	-20	PASS
		10GHz-15GHz	Plot 4.5.1 B5	-20	PASS
		15GHz-25GHz	Plot 4.5.1 B6	-20	PASS
39	2480	2.480 GHz	Plot 4.5.1 C1	---	PASS
		30MHz-3 GHz	Plot 4.5.1 C2	-20	PASS
		3GHz-5GHz	Plot 4.5.1 C3	-20	PASS
		5GHz-10GHz	Plot 4.5.1 C4	-20	PASS
		10GHz-15GHz	Plot 4.5.1 C5	-20	PASS
		15GHz-25GHz	Plot 4.5.1 C6	-20	PASS
Conducted bandedge	Left Band edge		Plot 4.5.1 D1	-20	PASS
	Right Band edge		Plot 4.5.1 D2	-20	PASS

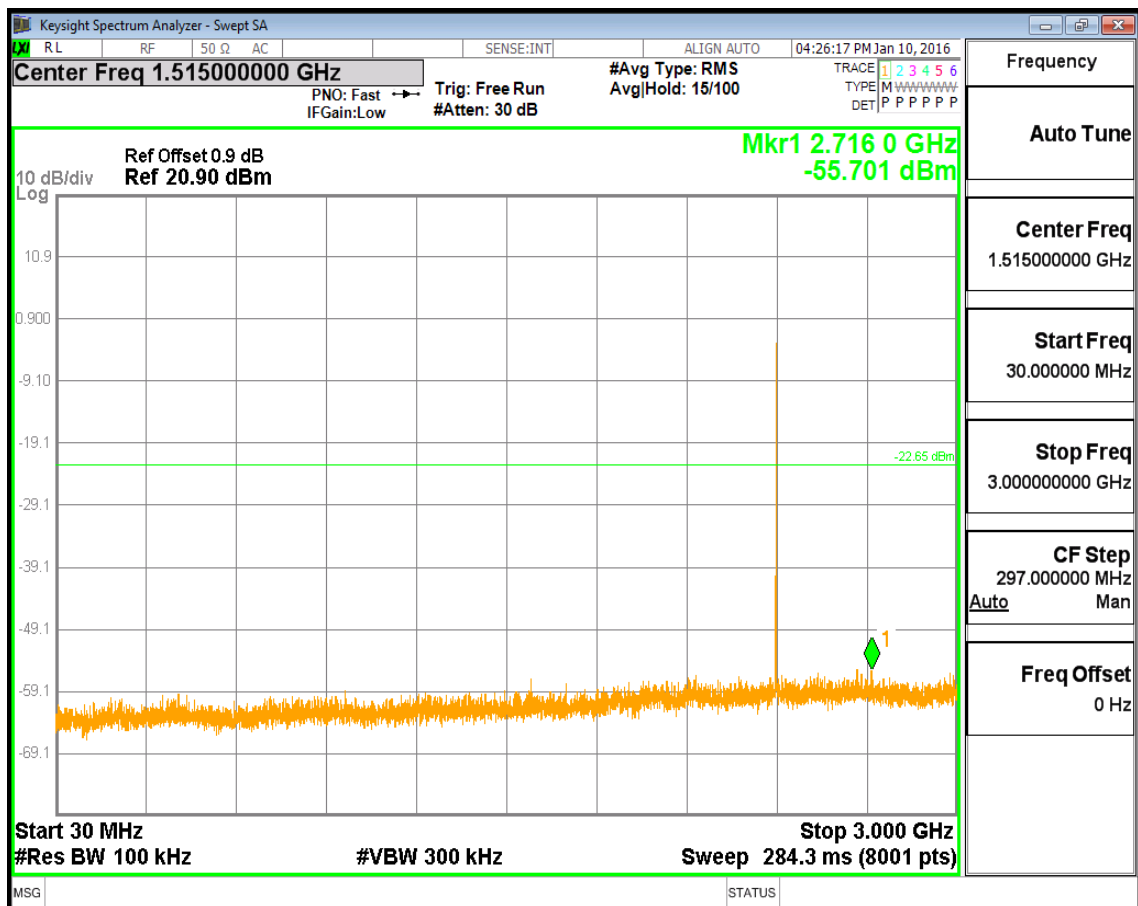
Note:

1. The test results including the cable lose.
2. For 9KHz -30MHz, Because there was only background, So We did not recorded data.

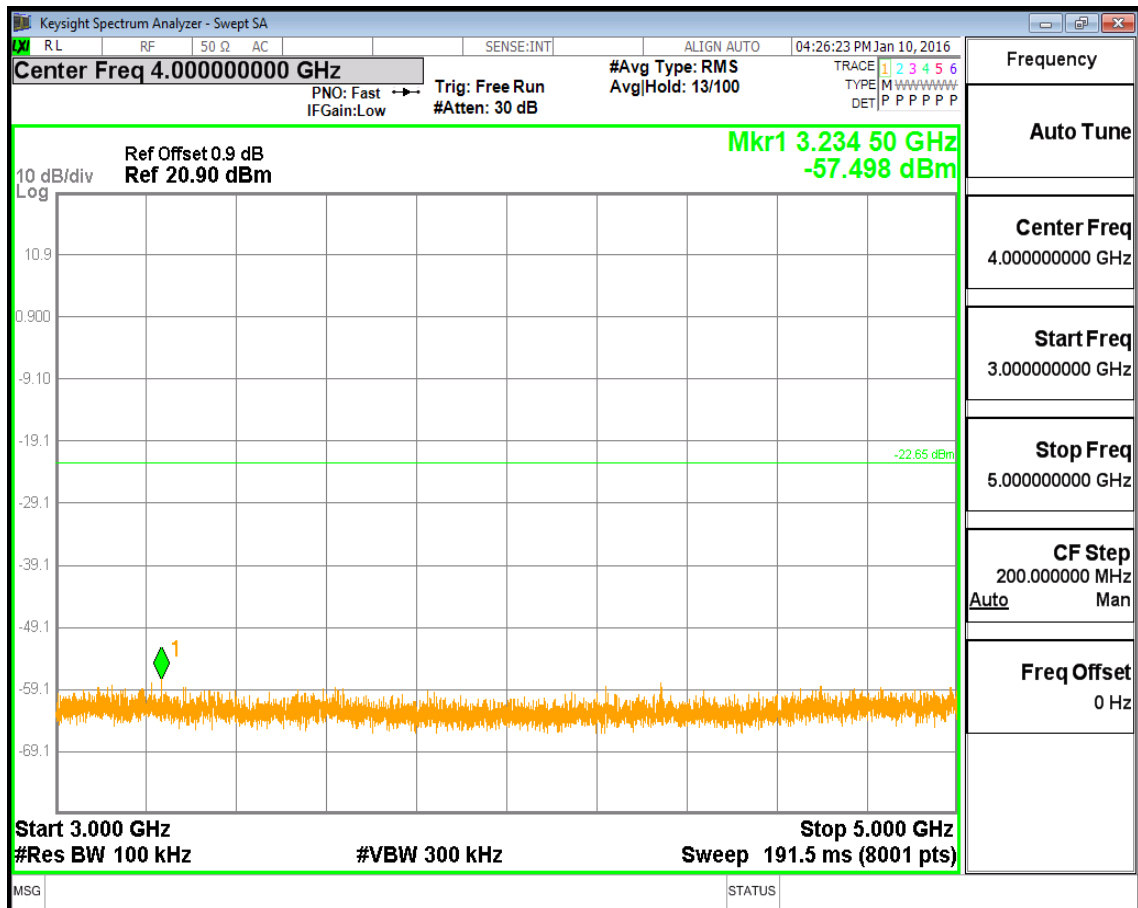
B. Test Plots



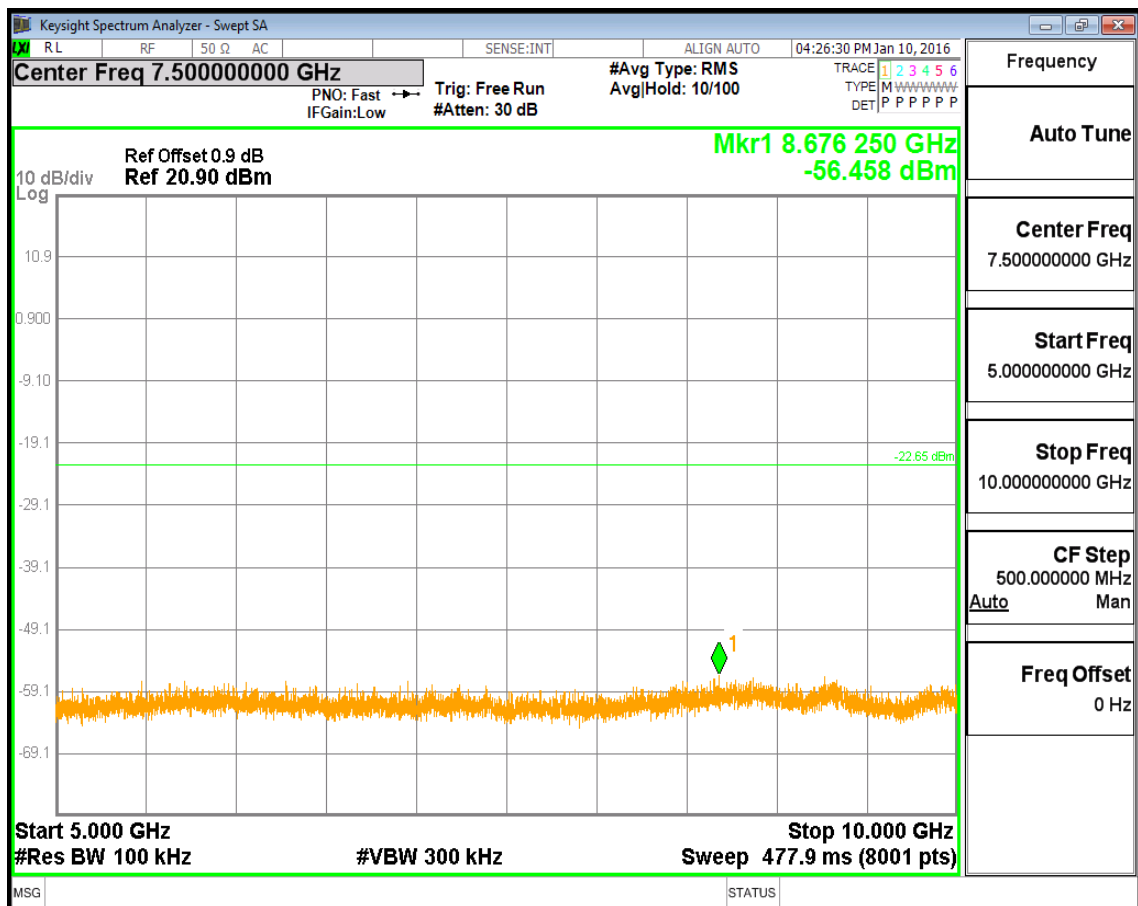
(Plot 4.5.1 A1: Channel 00: 2402MHz @ GFSK)



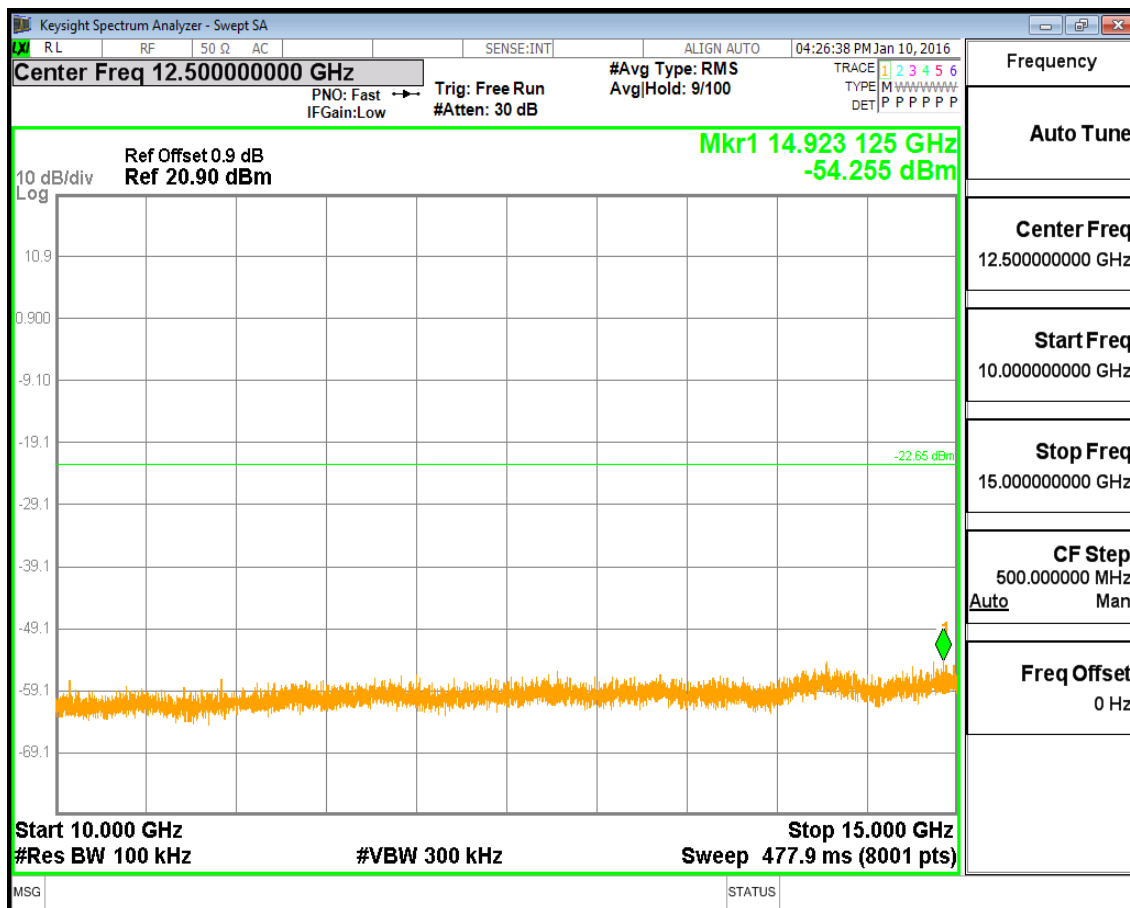
(Plot 4.5.1 A2: Channel 00: 2402MHz @ GFSK)



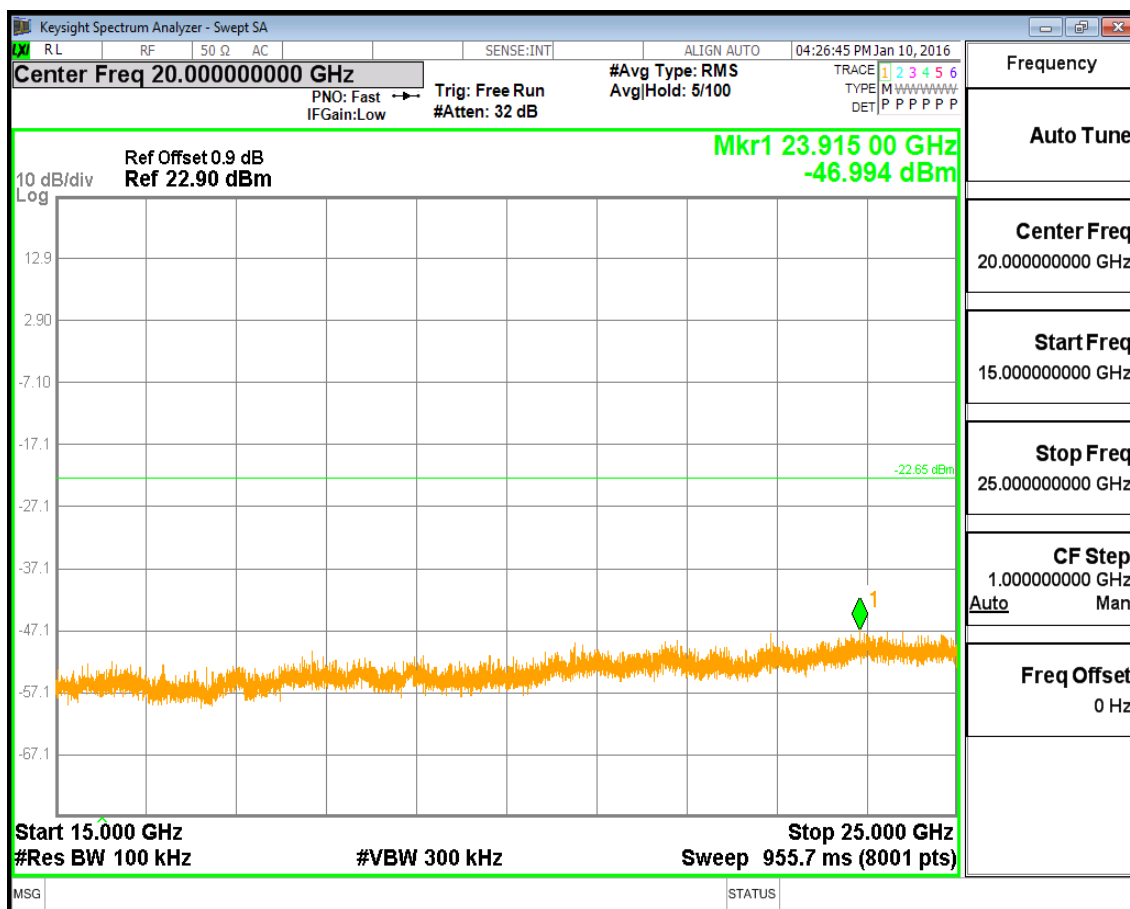
(Plot 4.5.1 A3: Channel 00: 2402MHz @ GFSK)



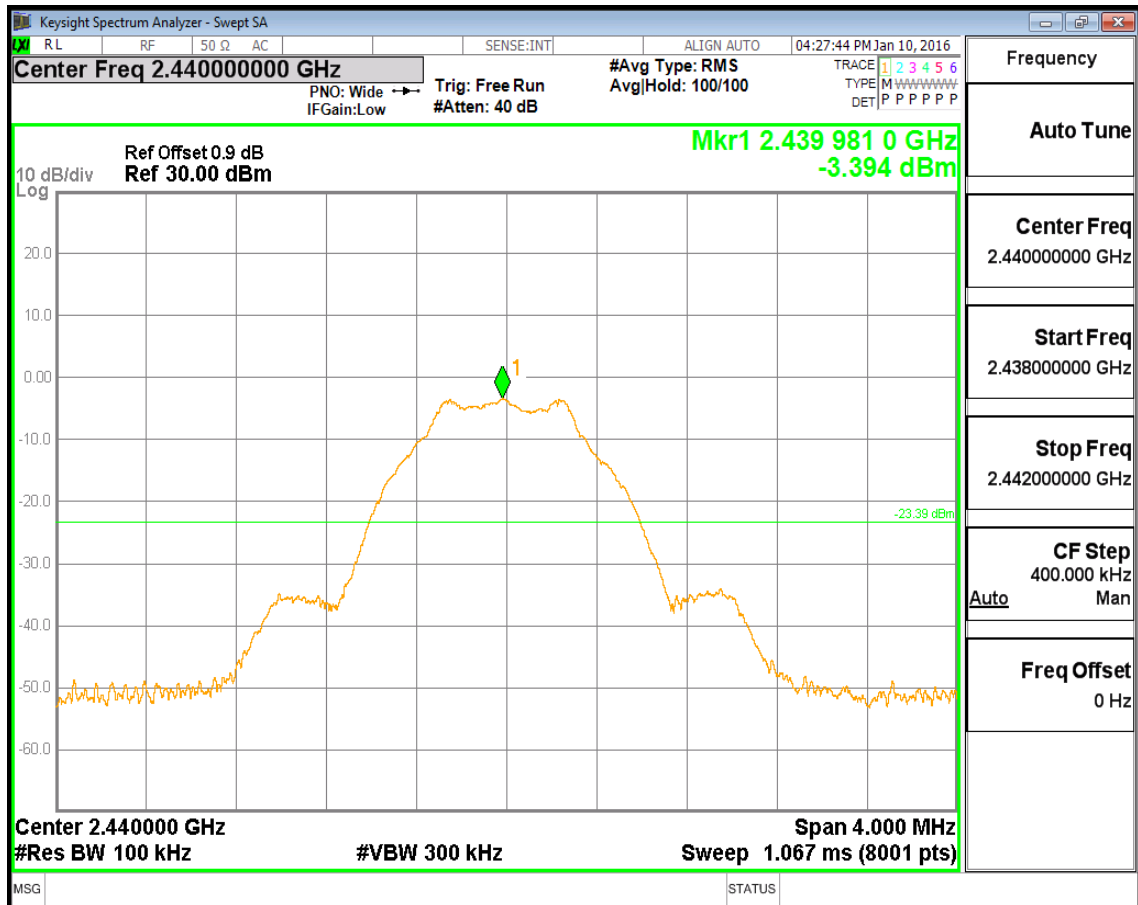
(Plot 4.5.1 A4: Channel 00: 2402MHz @ GFSK)



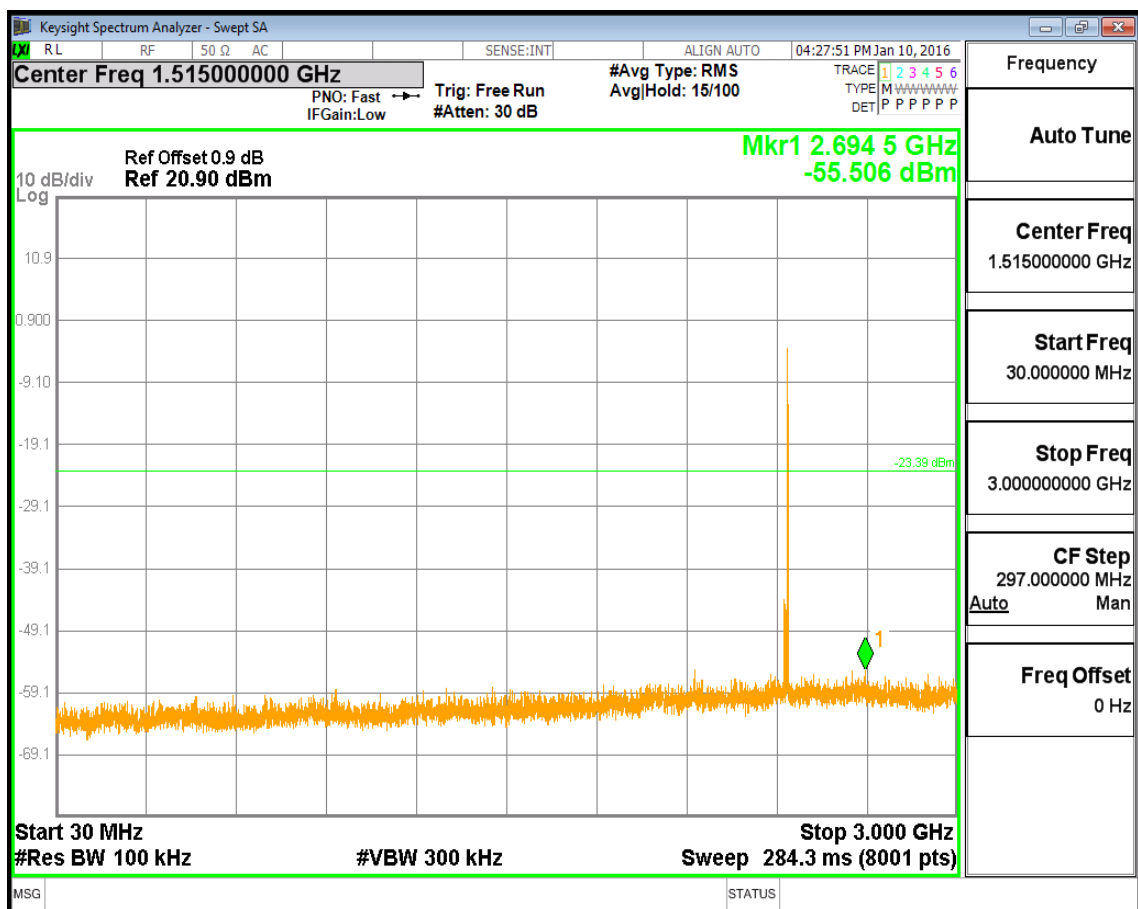
(Plot 4.5.1 A5: Channel 00: 2402MHz @ GFSK)



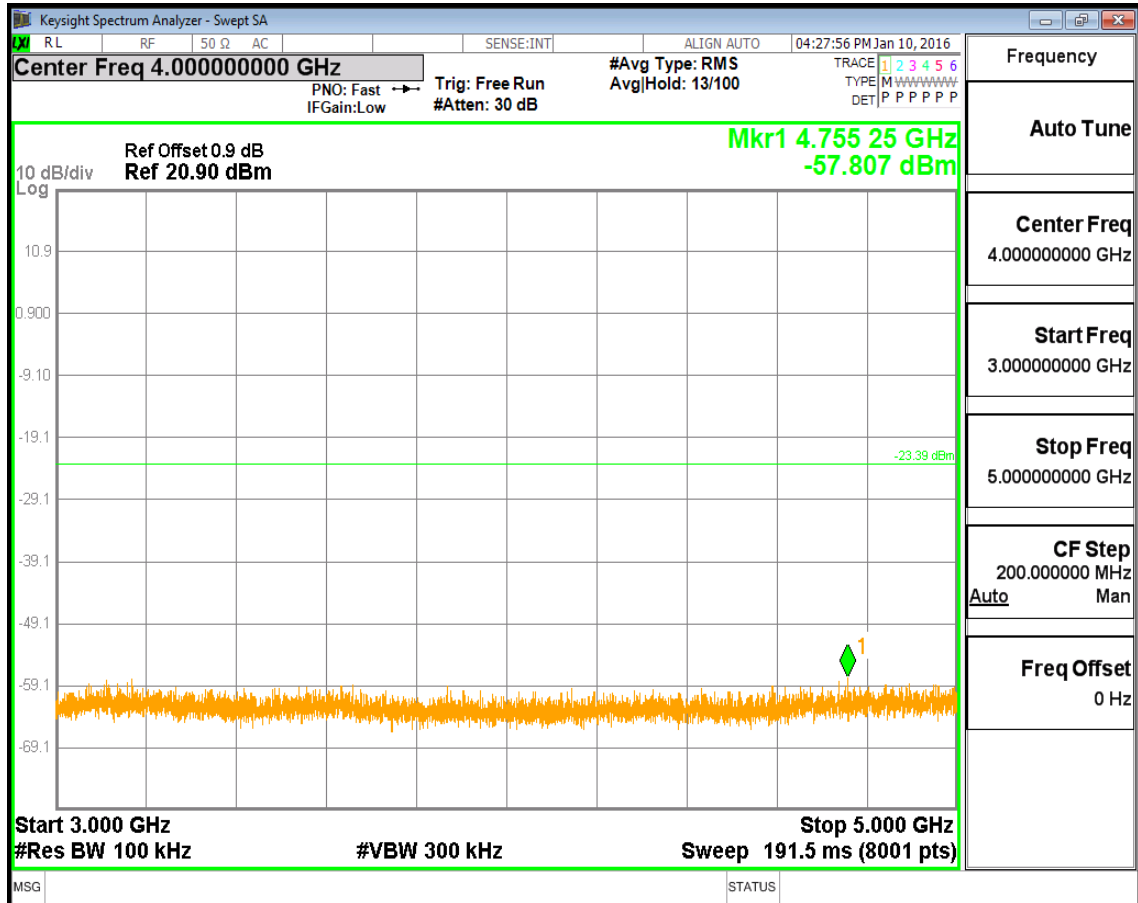
(Plot 4.5.1 A6: Channel 00: 2402MHz @ GFSK)



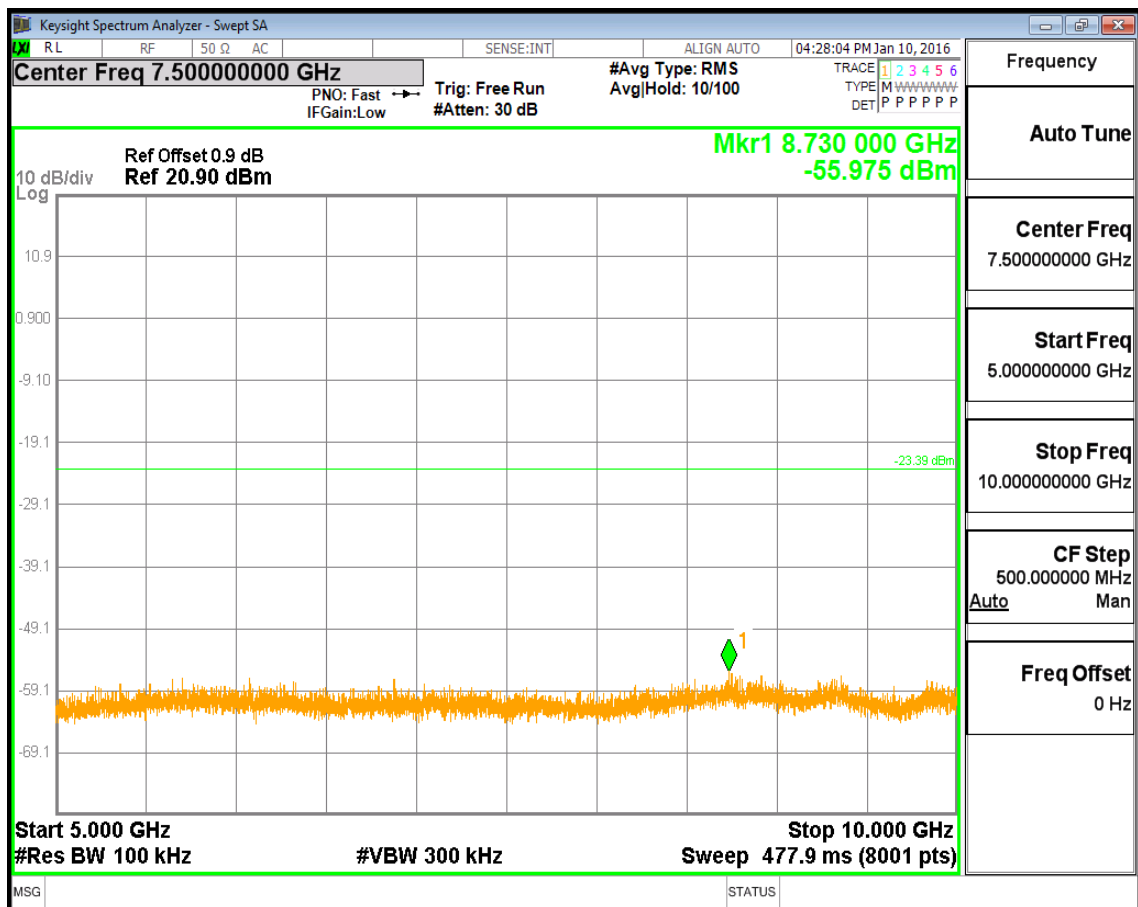
(Plot 4.5.1 B1: Channel 19: 2440MHz @ GFSK)



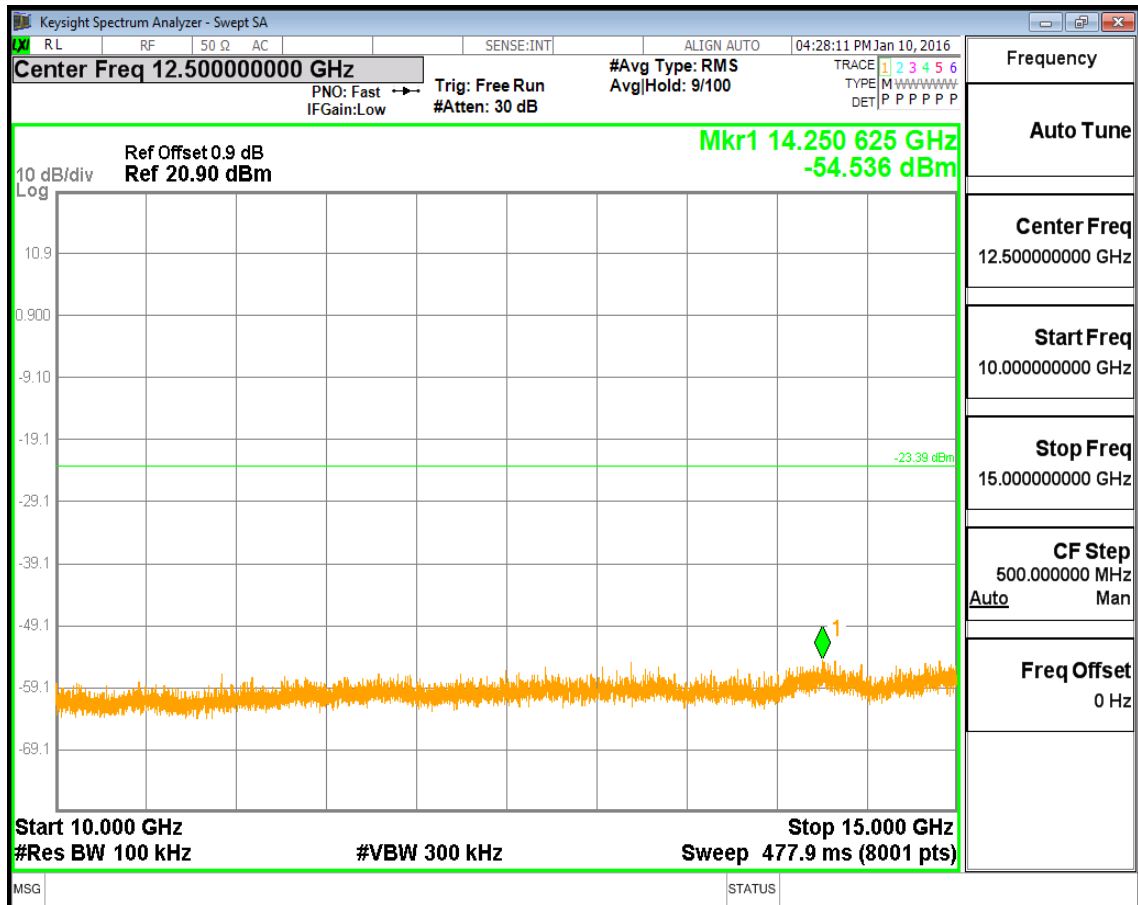
(Plot 4.5.1 B2: Channel 19: 2440MHz @ GFSK)



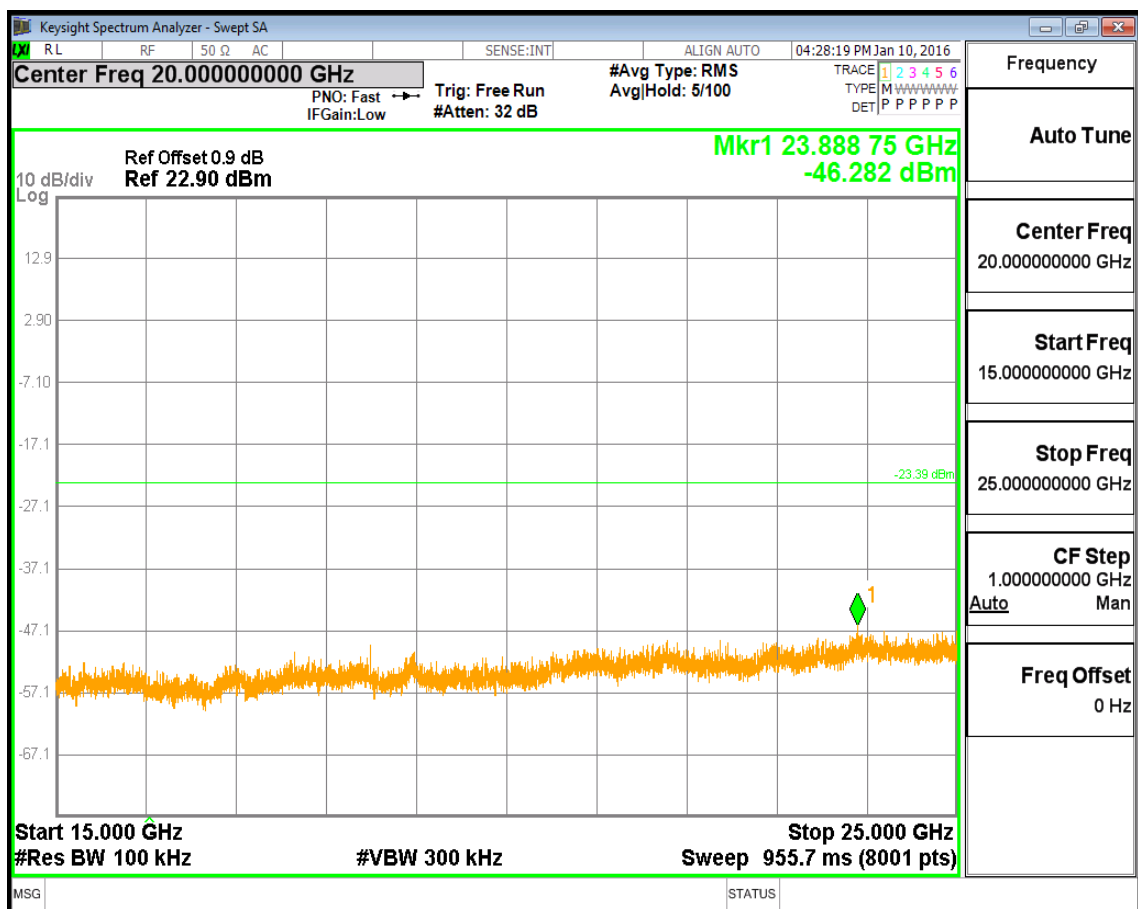
(Plot 4.5.1 B3: Channel 19: 2440MHz @ GFSK)



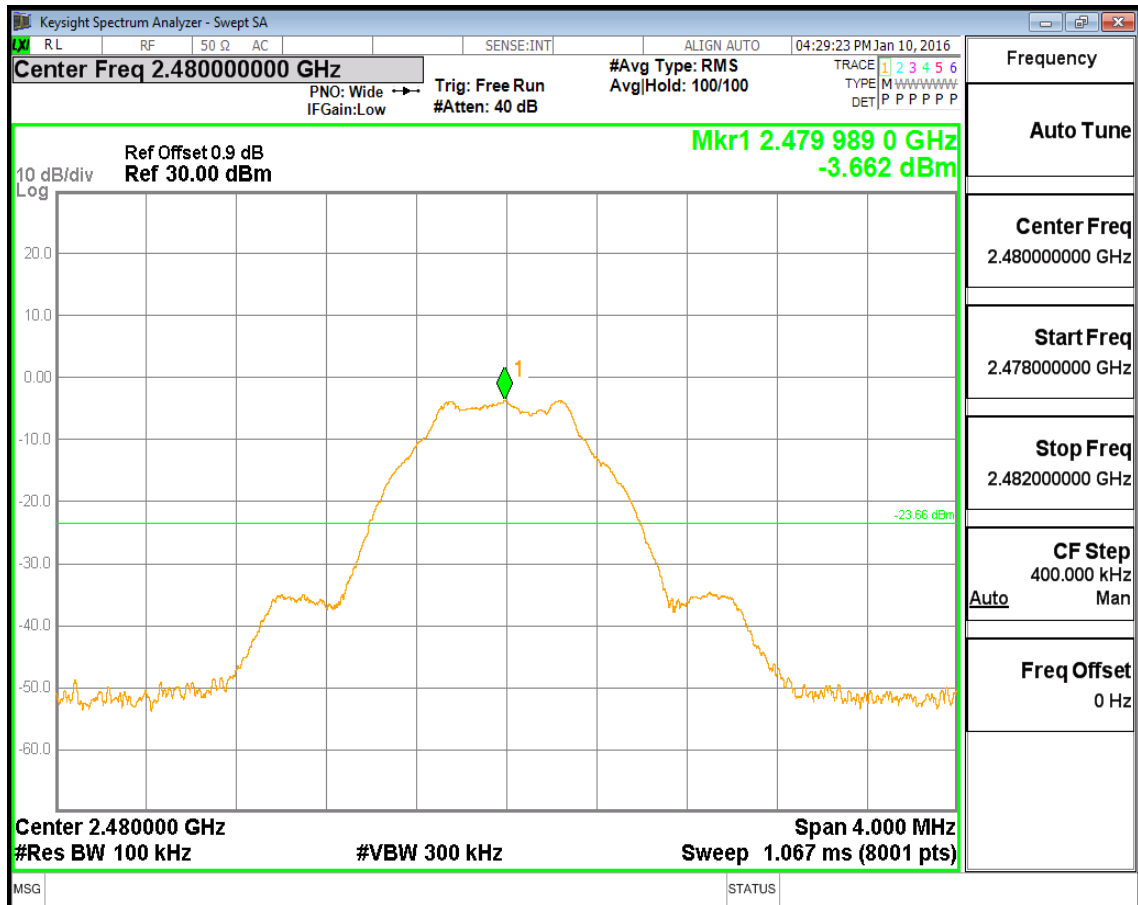
(Plot 4.5.1 B4: Channel 19: 2440MHz @ GFSK)



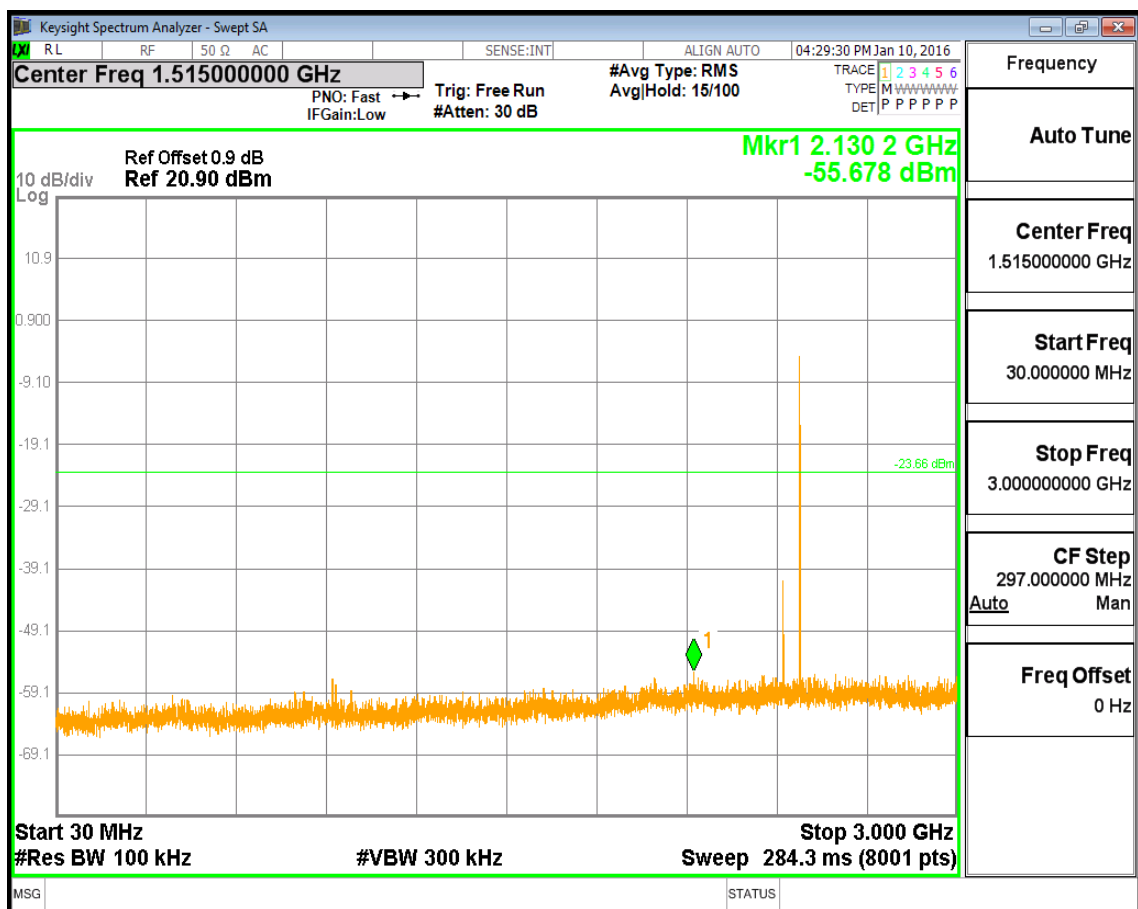
(Plot 4.5.1 B5: Channel 19: 2440MHz @ GFSK)



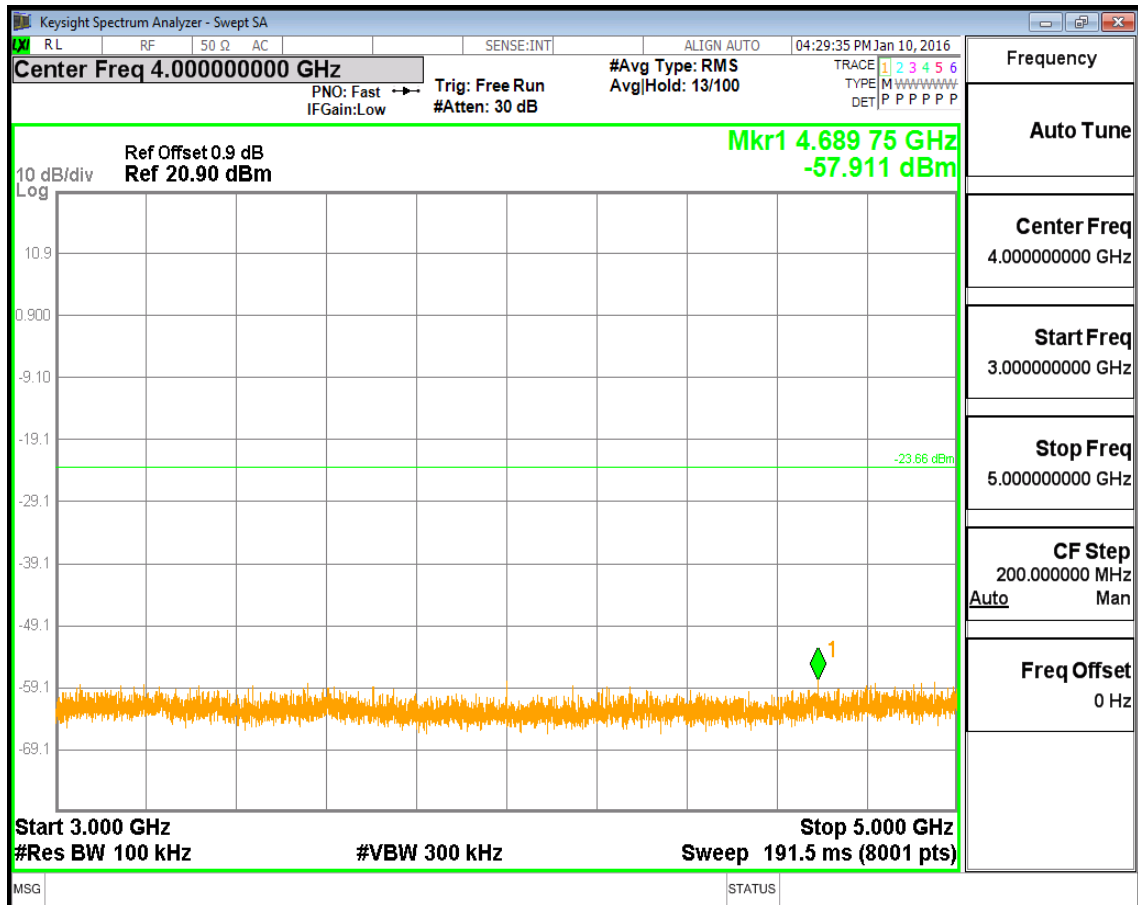
(Plot 4.5.1 B6: Channel 19: 2440MHz @ GFSK)



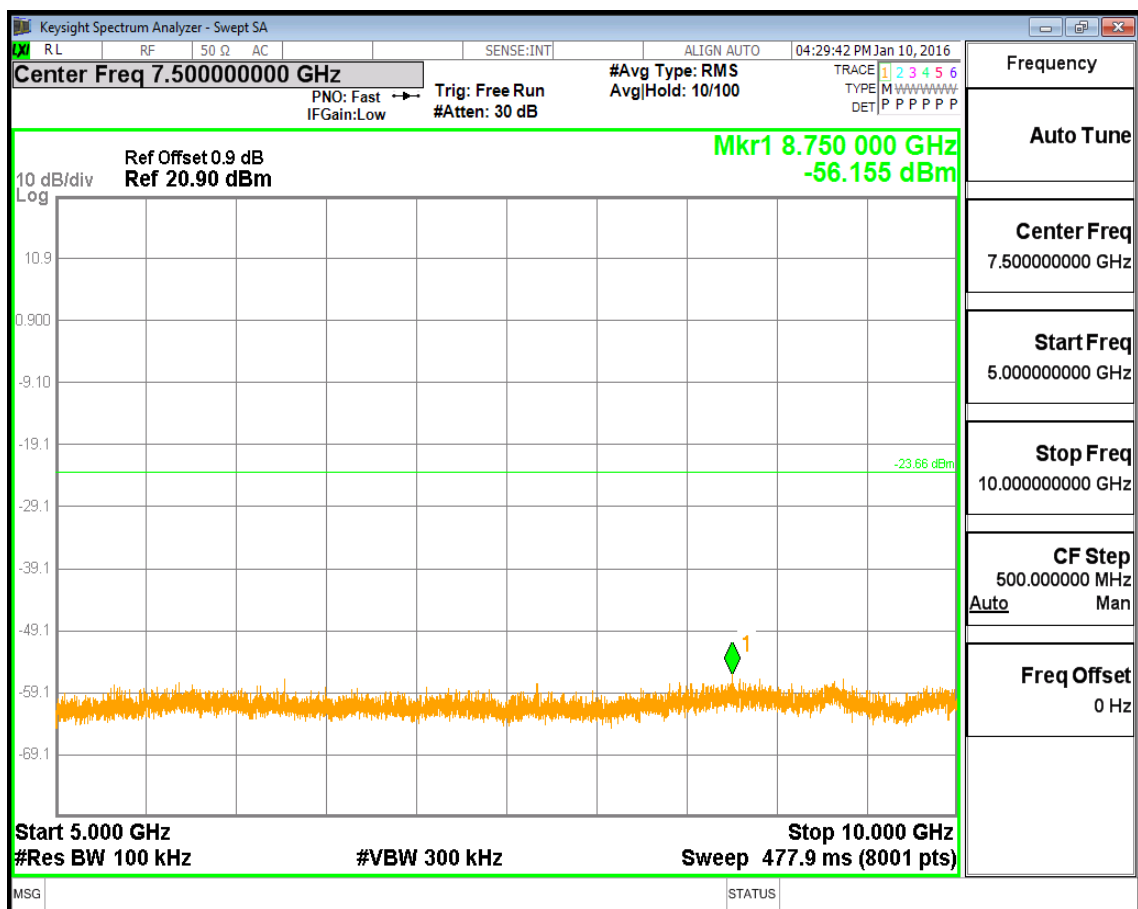
(Plot 4.5.1 C1: Channel 39: 2480MHz @ GFSK)



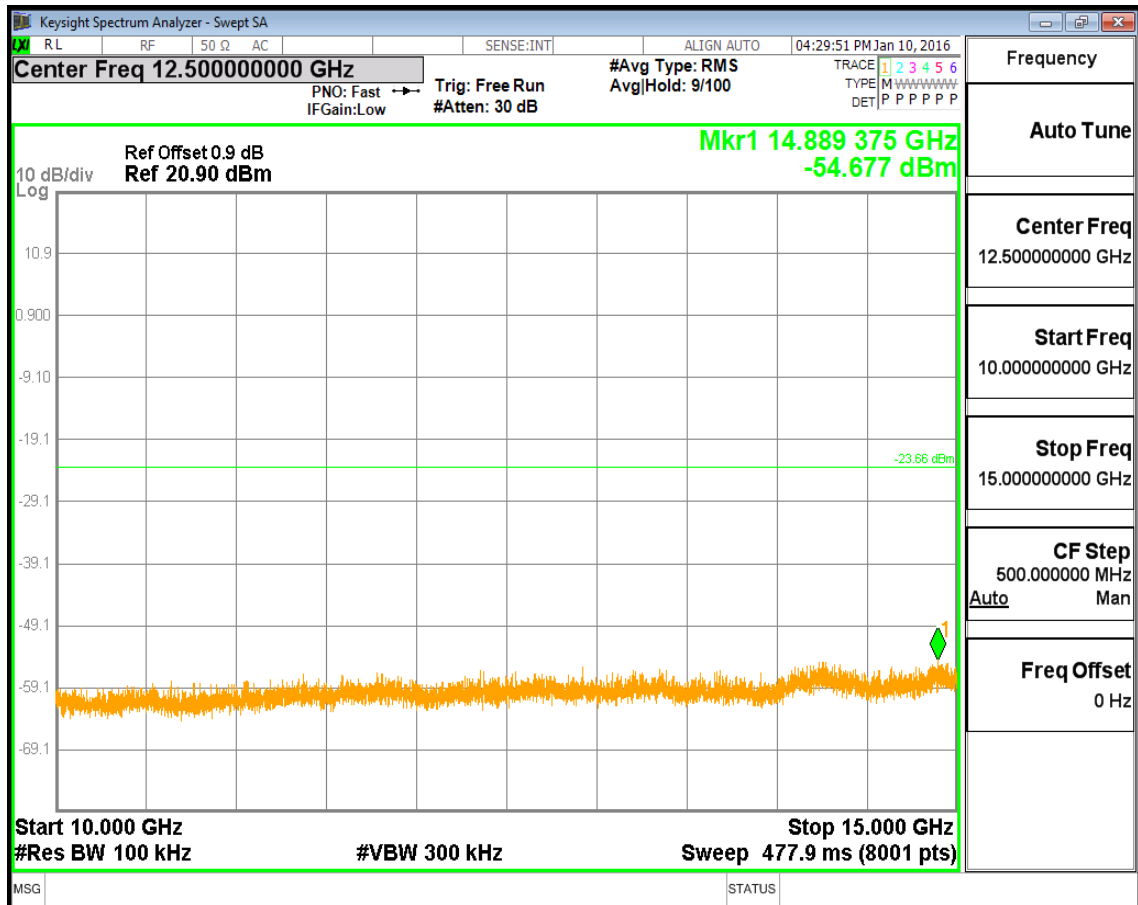
(Plot 4.5.1 C2: Channel 39: 2480MHz @ GFSK)



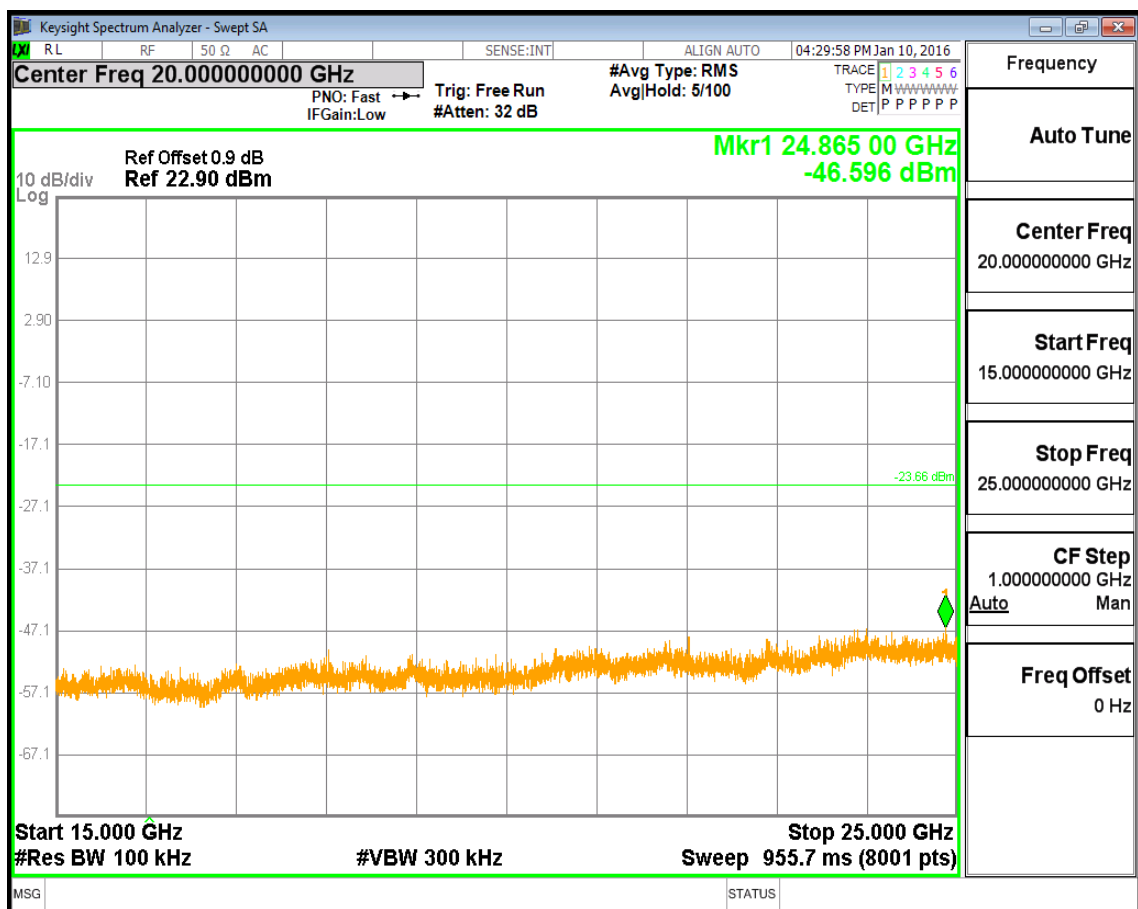
(Plot 4.5.1 C3: Channel 39: 2480MHz @ GFSK)



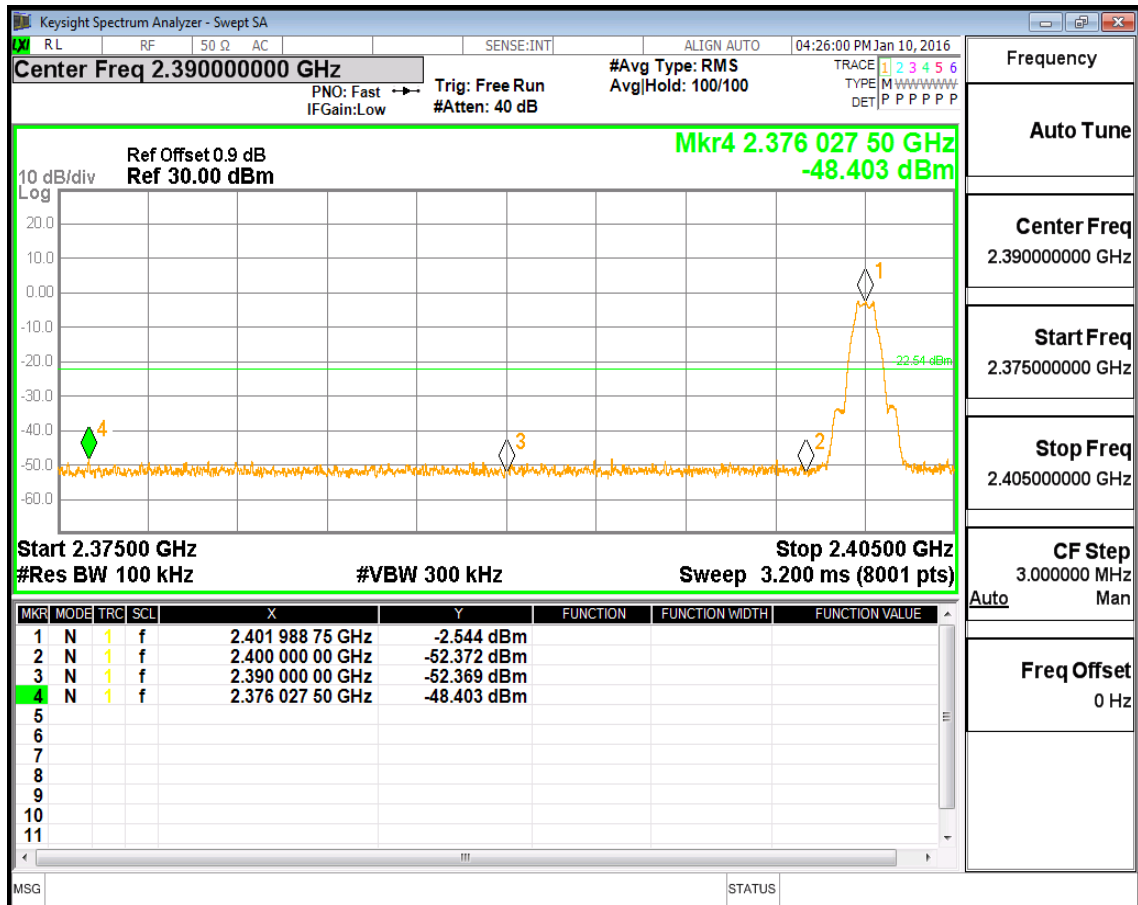
(Plot 4.5.1 C4: Channel 39: 2480MHz @ GFSK)



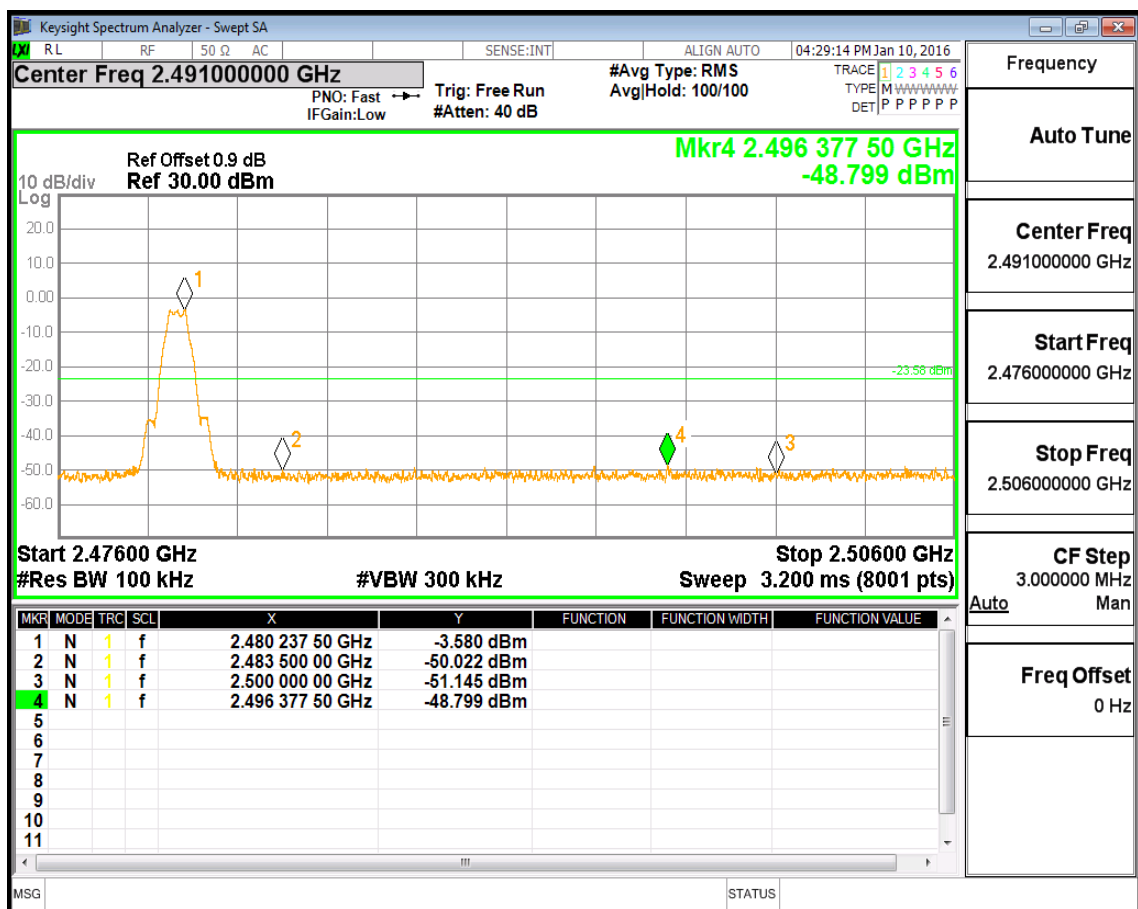
(Plot 4.5.1 C5: Channel 39: 2480MHz @ GFSK)



(Plot 4.5.1 C6: Channel 39: 2480MHz @ GFSK)



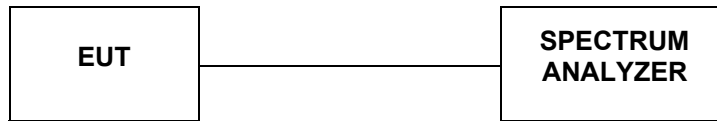
(Plot 4.5.1 D1: Left Band edge @ GFSK)



(Plot 4.5.1 D2: Right Band edge @ GFSK)

4.6 6dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB. According to KDB558074 D01 V03 for one of the following procedures may be used to determine the modulated DTS device signal bandwidth.

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

LIMIT

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST RESULTS

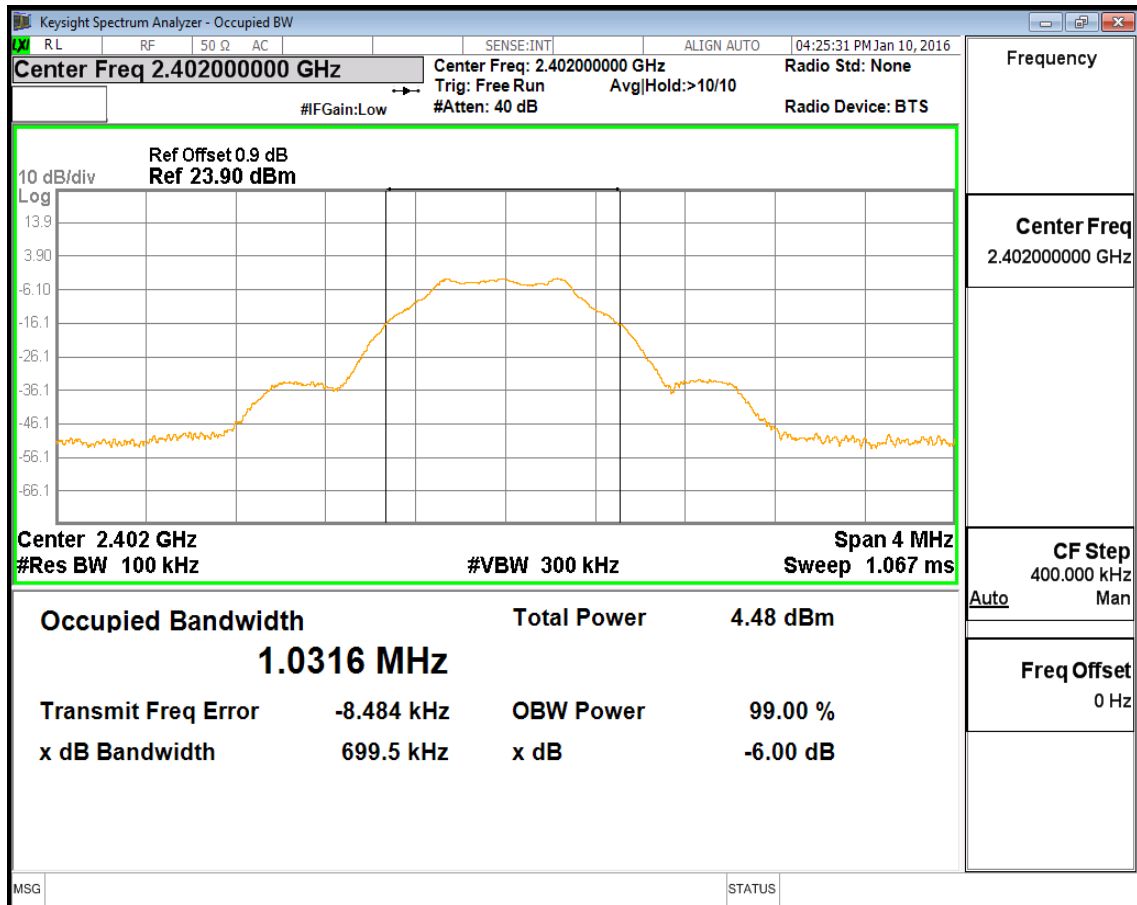
A. Test Verdict

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Refer to Plot	Limits (kHz)	Verdict
00	2402	0.6995	Plot 4.6.1 A	≥ 500	PASS
19	2440	0.6881	Plot 4.6.1 B	≥ 500	PASS
39	2480	0.6908	Plot 4.6.1 C	≥ 500	PASS

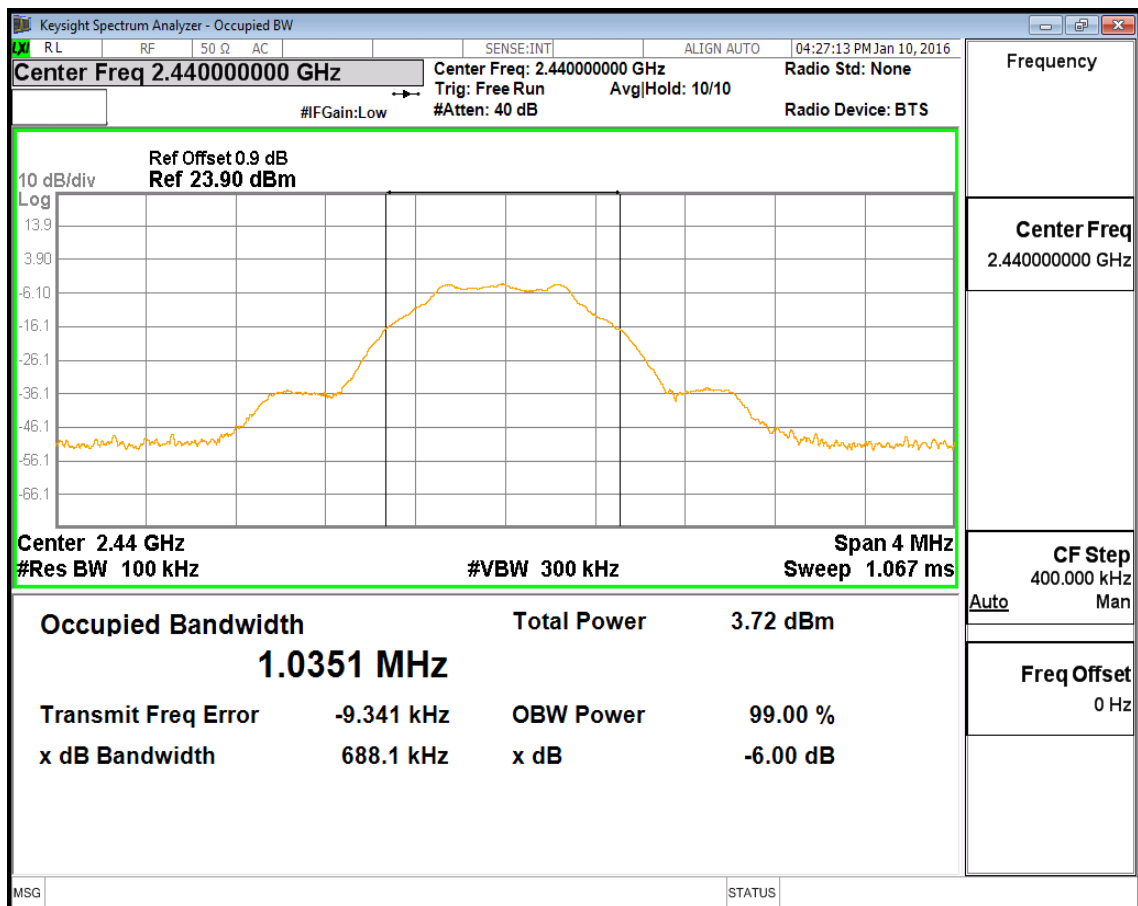
Note:

1. The test results including the cable loss.

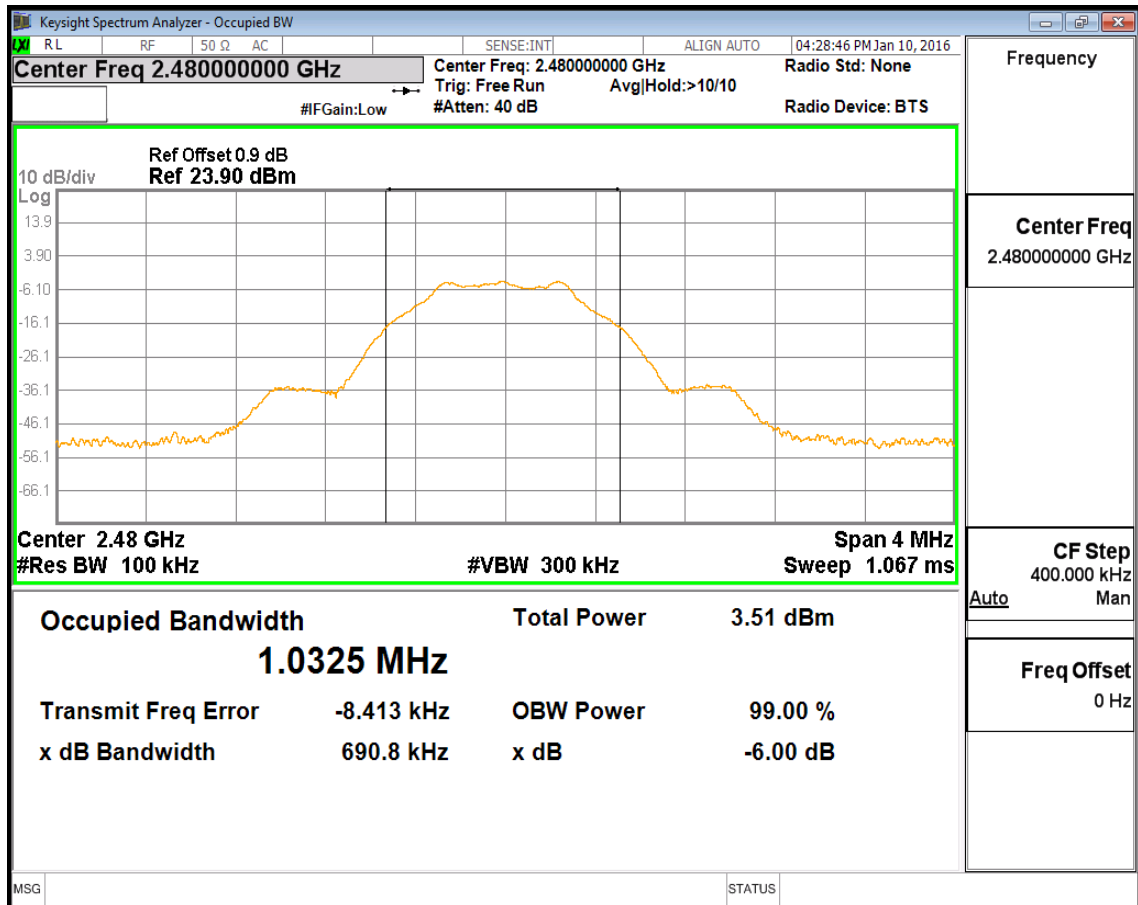
B. Test Plots



(Plot 4.6.1 A: Channel 00: 2402MHz @ GFSK)



(Plot 4.6.1 B: Channel 19: 2440MHz @ GFSK)



(Plot 4.6.1 C: Channel 39: 2480MHz @ GFSK)

4.7 Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Measurement

The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module.

Conducted power refer ANSI C63.10 :2009 Section 11.9 Output power test procedure for DTS devices
Radiated power refer to ANSI C63.10 :2009 Section 6.6.4 Radiated emissions tests.

Measurement parameters

Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	1MHz
Video bandwidth:	3MHz
Trace-Mode:	Max hold

Limits

FCC	IC
Antenna Gain	
6 dBi	

Results

T _{nom}	V _{nom}	Lowest Channel 2402 MHz	Middle Channel 2440 MHz	Highest Channel 2480 MHz
Conducted power [dBm] Measured with GFSK modulation		-2.65	-3.39	-3.66
Radiated power [dBm] Measured with GFSK modulation		-1.71	-1.94	-2.77
Gain [dBi] Calculated		0.94	1.45	0.89
Measurement uncertainty		± 0.6 dB (cond.) / ± 2.56 dB (rad.)		

5 Test Setup Photos of the EUT

Please refer to separated files for Test Setup Photos of the EUT.

6 External Photos of the EUT

Please refer to separated files for External Photos of the EUT.

7 Internal Photos of the EUT

Please refer to separated files for Internal Photos of the EUT.

.....**End of Report**.....