FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Goodbetterbest Limited

EX1-R Bluetooth Headset with NC

Model Number: E1RMOB-21

FCC ID: VS9-EX1RT

Prepared for : Goodbetterbest Limited
Suites 103-107, Devonshire Business Centre, Works Road,
Letchworth, SG6 1GJ, United Kingdom

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

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Report Number : ACS-F13340
Date of Test : Aug.22~Nov.21, 2013
Date of Report : Dec.09, 2013

TABLE OF CONTENTS

TEST REPORT CERTIFICATION

Applicant	:	Goodbetterbest Limited
EUT Description	:	EX1-R Bluetooth Headset with NC
FCC ID	:	VS9-EX1RT

(A) MODEL NO. : E1RMOB-21
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : DC 3.7V; DC 5V
(D) TEST VOLTAGE : DC 5V From PC Input AC 120V/50Hz

Tested for comply with:
FCC Rules and Regulations Part 15 Subpart C: 2012
Test procedure used:
ANSI C63.10:2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Aug.22~ Nov.21, 2013 Report of date: Dec.09, 2013

Prepared by : Lisa Liang
Lisa Liang /Assistant

Reviewed by :
Sunny Lu/ Assistant Manager

AUDIX® 信華科技（深圳）有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章
Stamp only for EMC Dept. Report

Approved & Authorized Signer : Signature: David Jin 12.9
David Jin / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	**Standard**	**Results**
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.10 :2009	PASS
Radiated Emission Test	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10 :2009	PASS
Conducted Spurious Emissions	FCC Part 15: 15.247(a)(1) ANSI C63.10 :2009	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) ANSI C63.10 :2009	PASS
20dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10 :2009	PASS
Number Of Hopping Frequency Test	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2009	PASS
Dwell Time Test	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2009	PASS
Maximum Peak Output Power Test	FCC Part 15: 15.247(b)(1)\ ANSI C63.10 :2009	PASS
Band Edge Compliance Test	FCC Part 15: 15.247(d) ANSI C63.10 :2009	PASS
N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

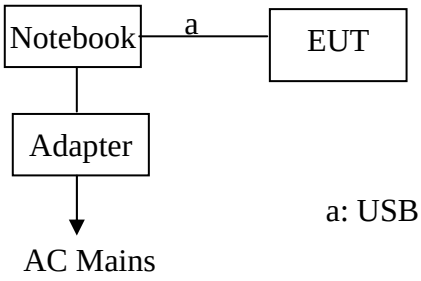
2.1. Description of Device (EUT)

Product Name	: EX1-R Bluetooth Headset with NC
Model Number	: E1RMOB-21
FCC ID	: VS9-EX1RT
Radio	: Bluetooth V3.0+EDR
Operation Frequency	: Bluetooth: 2402-2480MHz
Channel Number	: Bluetooth V3.0+EDR:79
Modulation Technology	: Bluetooth V3.0+EDR: GFSK, π/4DQPSK, 8-DPSK
Antenna Assembly Gain	: LTCC, 2.0287dBi PK Gain
Applicant	: Goodbetterbest Limited Suites 103-107, Devonshire Business Centre, Works Road, Letchworth, SG6 1GJ, United Kingdom
USB Cable	: Unshielded, Detachable, 1.0m
Date of Test	: Aug.22~Nov.21, 2013
Date of Receipt	: Aug.20, 2013
Sample Type	: Prototype production

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1	Notebook	Test PC R	DELL	D430	PP09S	☑ FCC DoC
		Power Cord: Unshielded, Detachable, 1.8m Power Adopter: Manufacture: DELL, M/N:LA65NS1-00				

2.3. Block Diagram of connection between EUT and simulators



a: USB Cable

(EUT: EX1-R Bluetooth Headset with NC)

2.4. Test information

The test software “bluesuite.exe” was used to control EUT work in Continuous TX mode, and select test channel.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)	Channel	Frequency (MHz)
Tx Mode GFSK modulation	1	Low :CH 0	2402
	1	Middle: CH39	2441
	1	High: CH78	2480
Tx Mode 8-DPSK modulation	3	Low :CH 0	2402
	3	Middle: CH39	2441
	3	High: CH78	2480
Note: π/4DQPSK modulation is same type modulation with 8-DPSK, and according exploratory test, 8-DPSK will have worse emissions, so the final test were only performed with GFSK and 8-DPSK modulation.			

2.5. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park,Nantou, Shenzhen, Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 90454
Valid Date: Feb.22, 2015

3m & 10m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 794232
Valid Date: Oct.31, 2015

EMC Lab. : Certificated by Industry Canada
Registration Number: IC 5183A-1
Valid Date: Jun.13, 2014

Certificated by DAkkS, Germany
Registration No: D-PL-12151-01-01
Valid Date: Feb.01, 2014

Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2014

2.6. Measurement Uncertainty (95% confidence levels, k=2)

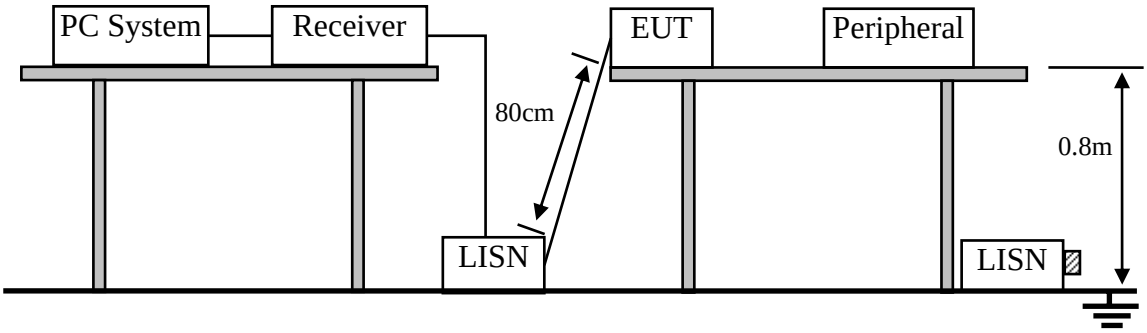
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.08dB(9KHz to 150KHz)
	3.1dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.22 dB(30~200MHz, Polarize: H)
	3.23 dB(30~200MHz, Polarize: V)
	3.49 dB(200M~1GHz, Polarize: H)
	3.39 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 10m chamber (1GHz-18GHz)	4.97dB (1~6GHz, Distance: 3m)
	4.99 dB (6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.57 dB
Uncertainty for Conduction Spurious emission test	2.00 dB
Uncertainty for Output power test	0.73 dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6℃
	3%

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.31, 12	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Oct.31, 12	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 13	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 13	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 13	1 Year
6.	RF Cable	Fujikura	3D-2W	No.1	May.08, 13	1Year
7.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 13	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 13	1 Year

3.2. Block Diagram of Test Setup



▨ :50Ω Terminator

3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. EX1-R Bluetooth Headset with NC (EUT)

Model Number : E1RMOB-21
Serial Number : N/A

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipment.

3.5.3. Let the EUT work in test mode (TX Mode) and measure it.

3.6. Test Procedure

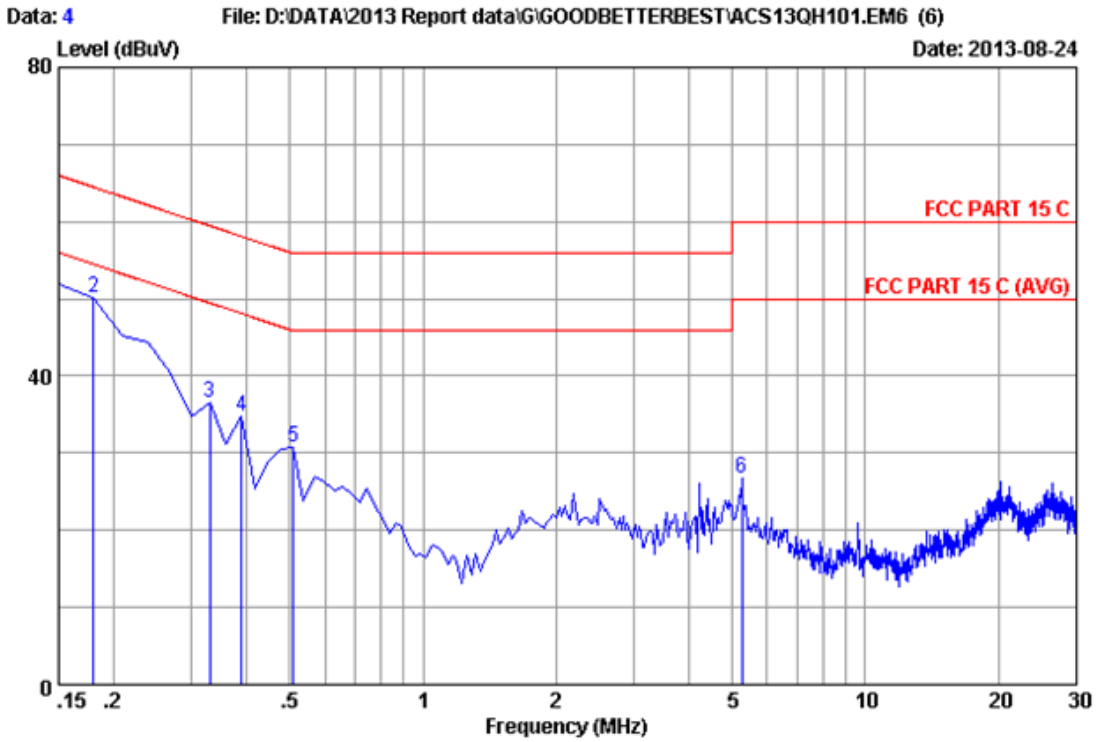
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2009 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

3.7. Conducted Emission at Mains Terminals Test Results

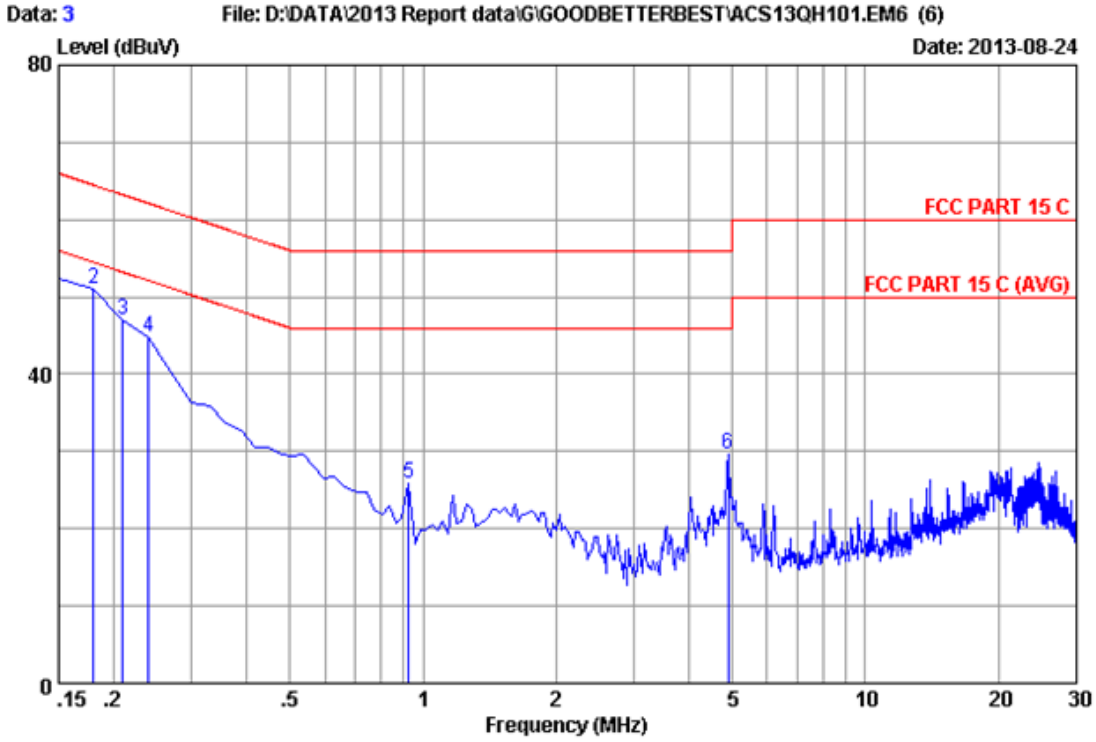
PASS. (All emissions not reported below are too low against the prescribed limits.)



Site no :1#conduction Data No :4
Dis./Ant. :** 2012 ESH2-Z5 LINE
Limit :FCC PART 15 C
Env./Ins. :25.5*C/48% Engineer :Abner
EUT :EX1-R Bluetooth Headset with NC
Power Rating :DC 5V From PC Input AC 120V/60Hz
Test Mode :Tx Mode
:M/N:E1RMOB-21

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.20	0.01	51.82	52.03	66.00	13.97	QP
2	0.17985	0.19	0.01	49.96	50.16	64.49	14.33	QP
3	0.32910	0.19	0.01	36.33	36.53	59.47	22.94	QP
4	0.38880	0.19	0.02	34.59	34.80	58.09	23.29	QP
5	0.50820	0.19	0.02	30.49	30.70	56.00	25.30	QP
6	5.254	0.32	0.07	26.40	26.79	60.00	33.21	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when useing a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Site no :1#conduction Data No :3
Dis./Ant. :** 2012 ESH2-Z5 NEUTRAL
Limit :FCC PART 15 C
Env./Ins. :25.5*C/48% Engineer :Abner
EUT :EX1-R Bluetooth Headset with NC
Power Rating :DC 5V From PC Input AC 120V/60Hz
Test Mode :Tx Mode
:M/N:E1RMOB-21

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.21	0.01	52.08	52.30	66.00	13.70	QP
2	0.17985	0.21	0.01	50.90	51.12	64.49	13.37	QP
3	0.20970	0.21	0.01	46.84	47.06	63.22	16.16	QP
4	0.23955	0.21	0.01	44.60	44.82	62.11	17.29	QP
5	0.92610	0.24	0.03	25.56	25.83	56.00	30.17	QP
6	4.896	0.34	0.07	29.17	29.58	56.00	26.42	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when useing a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

4. RADIATED EMISSION MEASUREMENT

4.1.Test Equipment

Frequency rang: 30~1000MHz

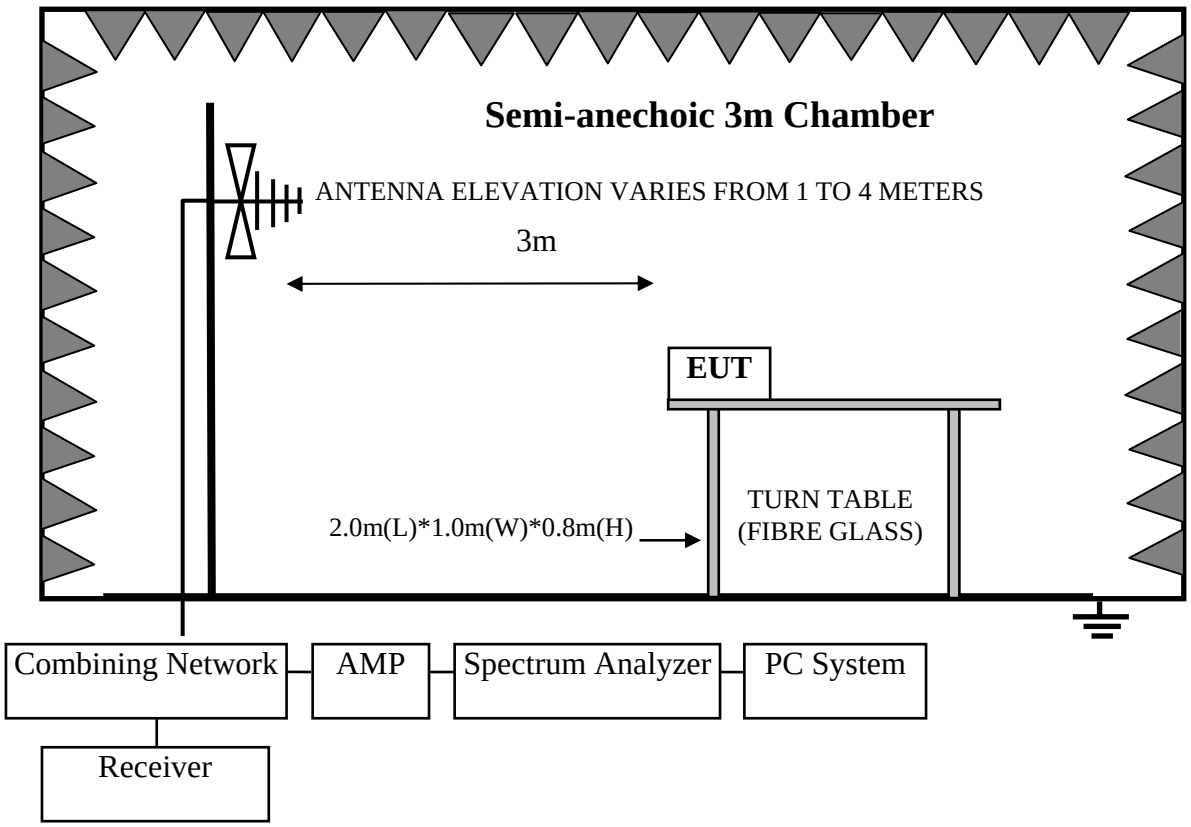
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24, 13	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 13	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 13	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 13	1 Year
5	Bilog Antenna	TESEQ	CBL6112D	35375	May.30, 13	1 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	May.08, 13	1 Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 13	1 Year

Frequency rang: above 1000MHz

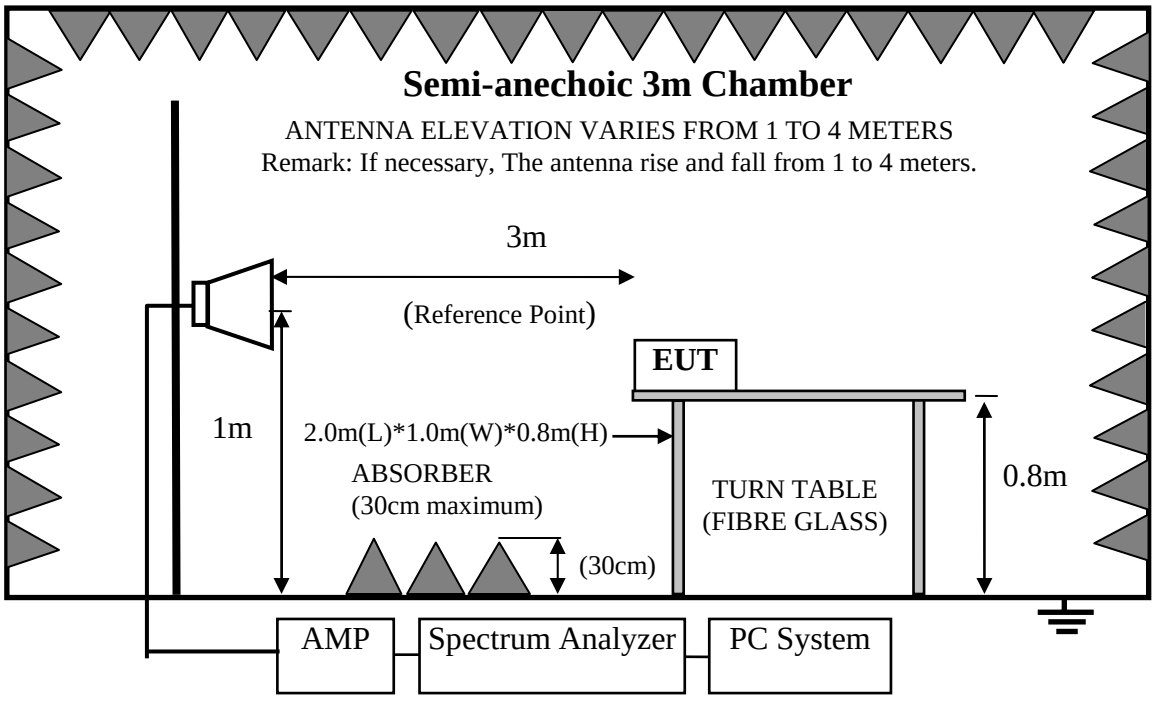
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 13	1 Year
2	Horn Antenna	EMCO	3115	9510-4580	May.28, 13	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 13	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77980/6	May.08, 13	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 13	1 Year
6	Horn Antenna	EMCO	3116	00060089	Aug.28, 13	1 Year

4.2.Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.3.Radiated Emission Limit Standard: FCC 15.209

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark： (1) Emission level dBμV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

(4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. EX1-R Bluetooth Headset with NC (EUT)

Model Number : E1RMOB-21
Serial Number : N/A

4.5.Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 3.2.

4.5.2. Turned on the power of all equipment.

4.5.3. Let EUT work in Tx mode.

4.6.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2009 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz

This device is pulse Modulated, a duty cycle factor was used to calculated average level based measured peak level.

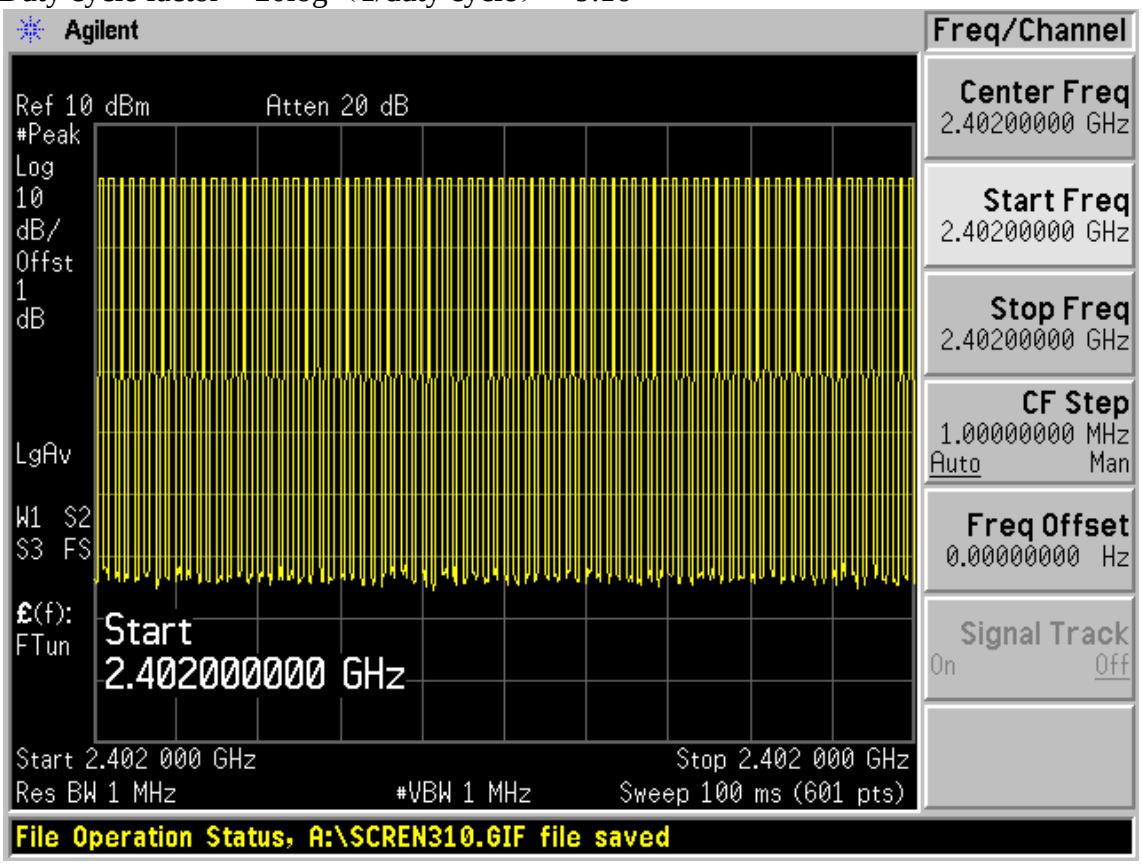
The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

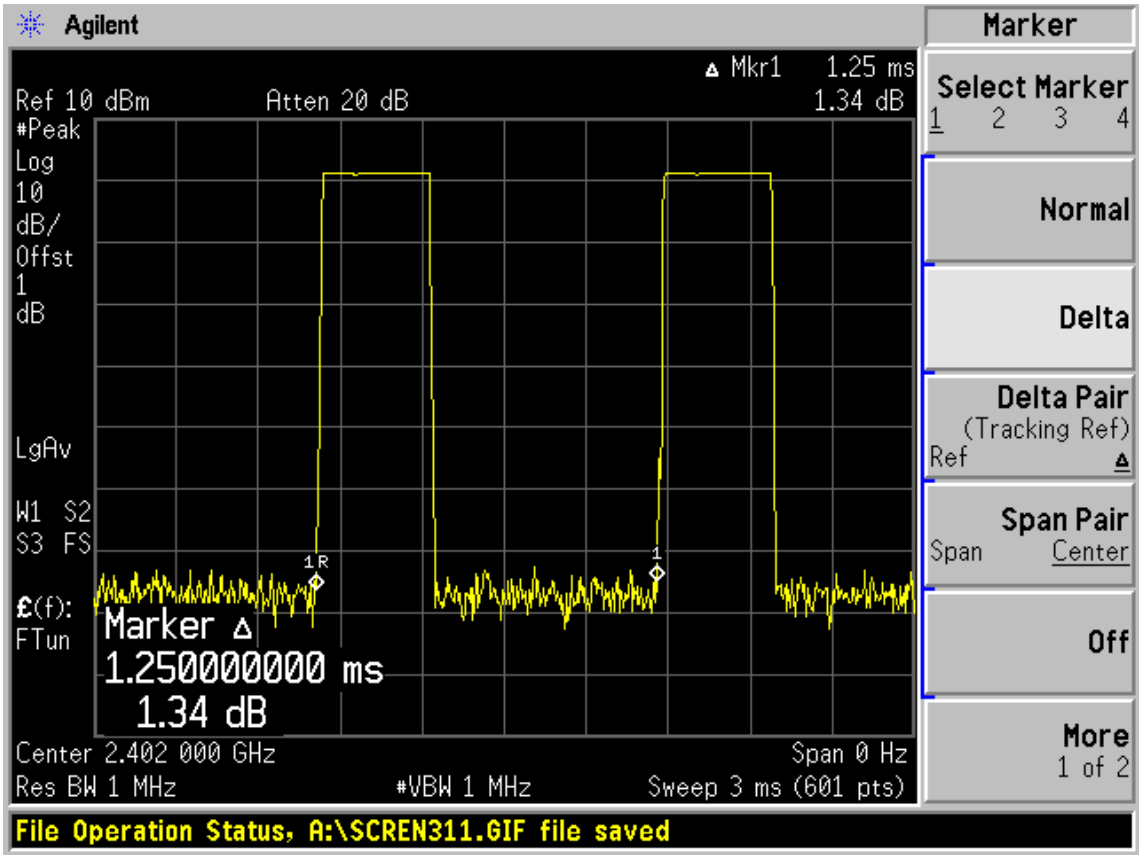
4.7. Radiated Emission Test Results

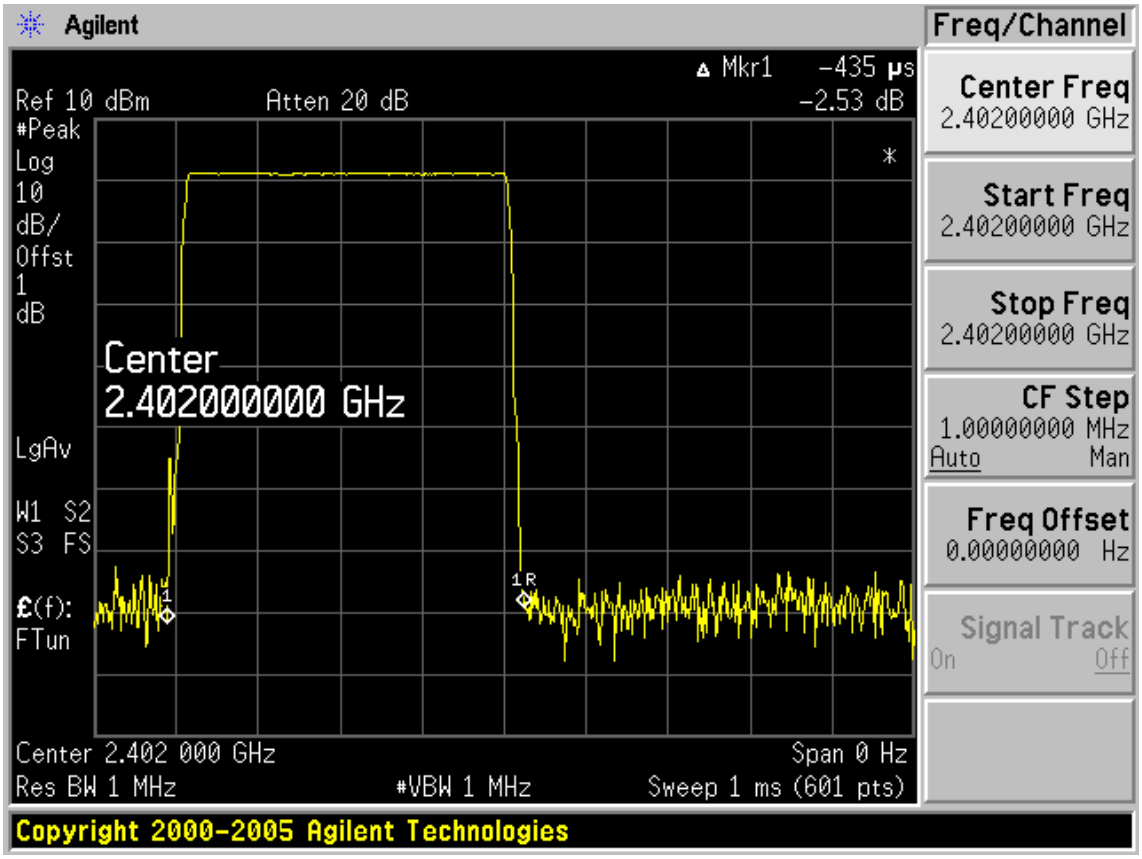
PASS.

All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.
Note: The duty cycle factor for calculate average level is 9.16dB, and average limit is 20dB below peak limit, so if peak measured level comply with peak limit, the average level was deemed to comply with average limit.

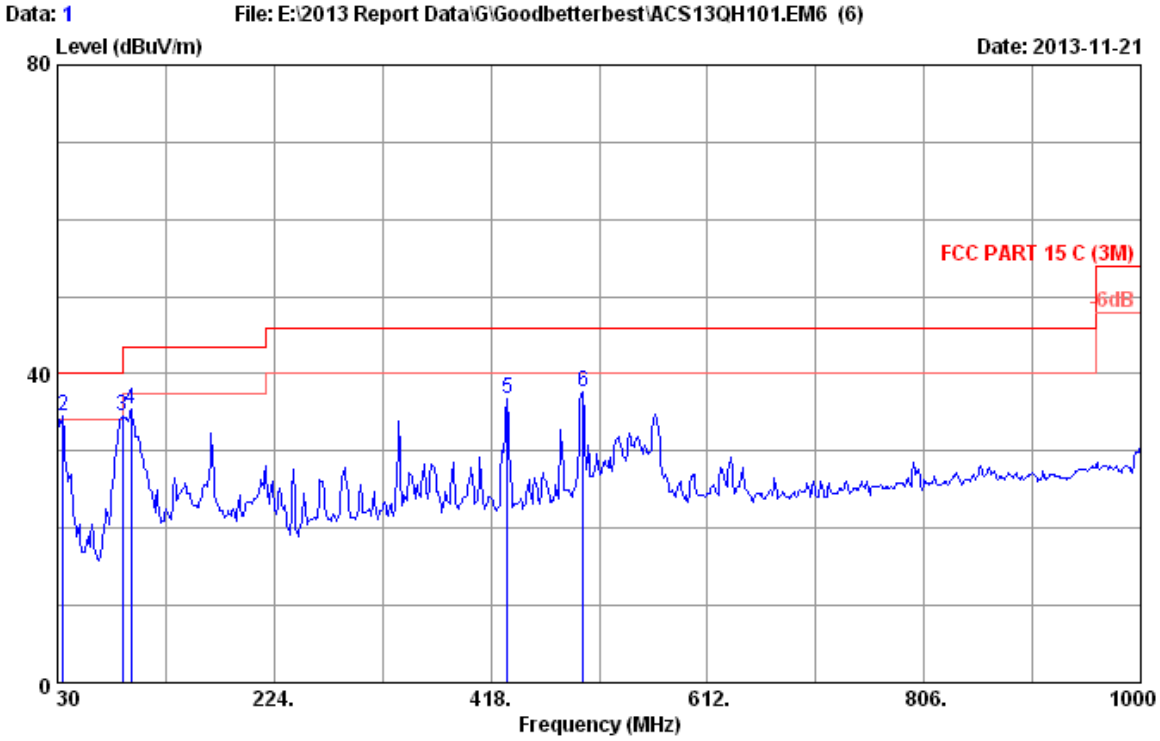
Duty cycle: 0.435ms /1.25ms *100% = 34.8%
Duty cycle factor = 20log（1/duty cycle）= 9.16






Agilent
Freq/Channel
Mkr1 -435 µs
Ref 10 dBm
Atten 20 dB
-2.53 dB
#Peak
Log
10
dB/
Offst
1
dB
Center
2.402000000 GHz
LgAv
W1 S2
S3 FS
£(f):
FTun
1R
Center Freq
2.40200000 GHz
Start Freq
2.40200000 GHz
Stop Freq
2.40200000 GHz
CF Step
1.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 2.402 000 GHz
Span 0 Hz
Res BW 1 MHz
#VBW 1 MHz
Sweep 1 ms (601 pts)
Copyright 2000-2005 Agilent Technologies

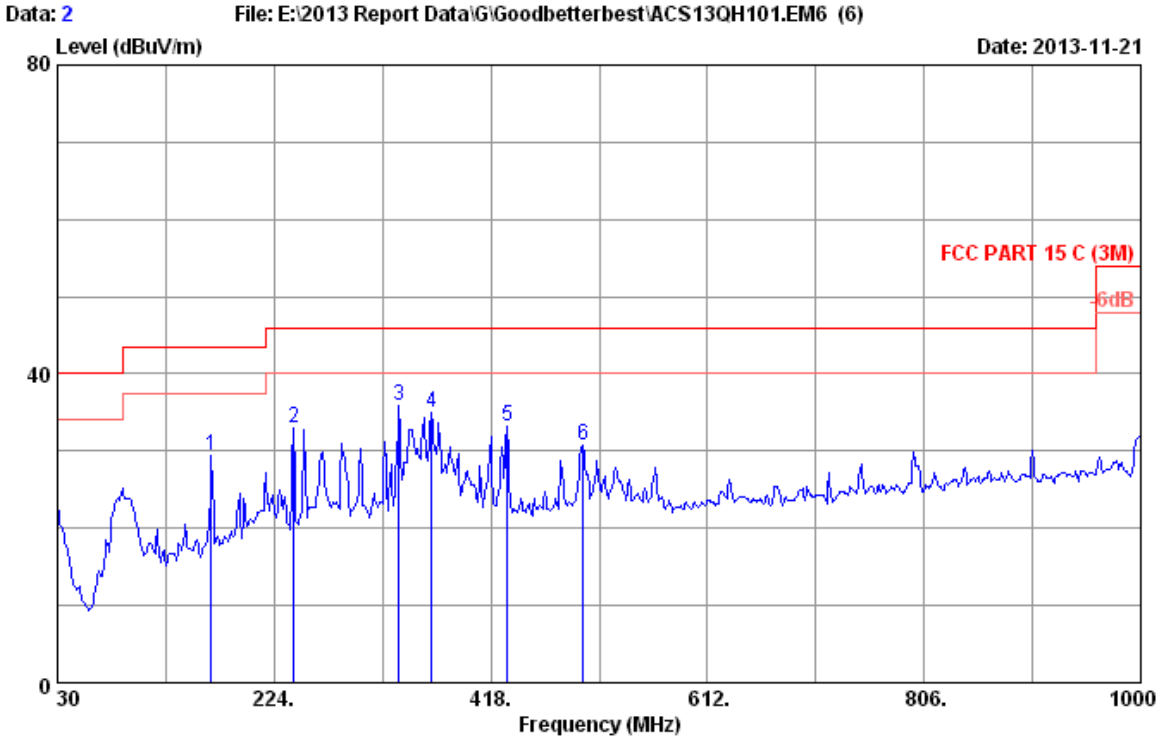
Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/65% Engineer : Kevin
EUT : EX1-R Bluetooth Headset with NC
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : Tx Mode
M/N:E1RMOB-21

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.10	0.83	13.75	34.68	40.00	5.32	QP
2	34.850	17.09	0.92	16.42	34.43	40.00	5.57	QP
3	88.200	9.04	1.36	24.23	34.63	43.50	8.87	QP
4	95.960	10.59	1.39	23.56	35.54	43.50	7.96	QP
5	432.550	17.05	2.55	17.24	36.84	46.00	9.16	QP
6	500.450	18.01	2.75	16.98	37.74	46.00	8.26	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

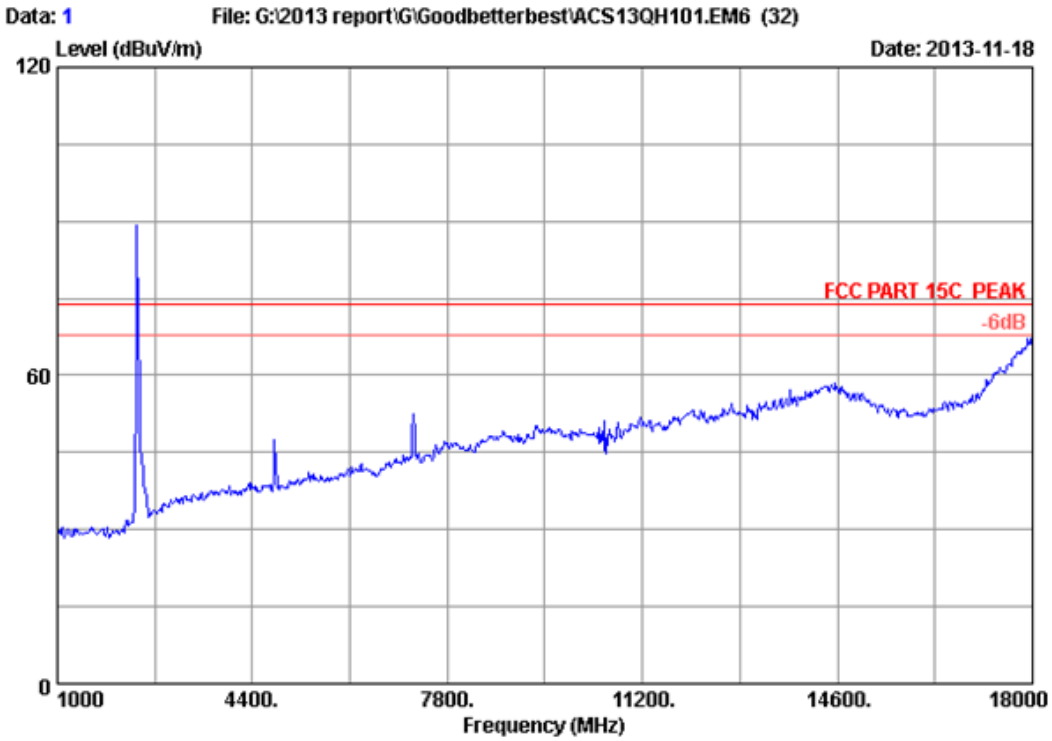


Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/65% Engineer : Kevin
EUT : EX1-R Bluetooth Headset with NC
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : Tx Mode
M/N:E1RMOB-21

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	167.740	10.41	1.67	17.42	29.50	43.50	14.00	QP
2	241.460	12.35	1.95	18.64	32.94	46.00	13.06	QP
3	335.550	14.82	2.27	18.68	35.77	46.00	10.23	QP
4	364.650	15.70	2.36	16.98	35.04	46.00	10.96	QP
5	432.550	17.05	2.55	13.58	33.18	46.00	12.82	QP
6	500.450	18.01	2.75	10.09	30.85	46.00	15.15	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz




```
Site no.      : 3m Chamber                Data no.   : 1
Dis. / Ant.   : 3m   2012 3115 (4580)     Ant. pol.  : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                  Engineer   : Leo-Li
EUT           : EX1-R Bluetooth Headset with NC
Power supply  : DC 5V From PC Input AC 120V/50Hz
Test mode     : GFSK 2402MHz      Tx
                E1RMOB-21
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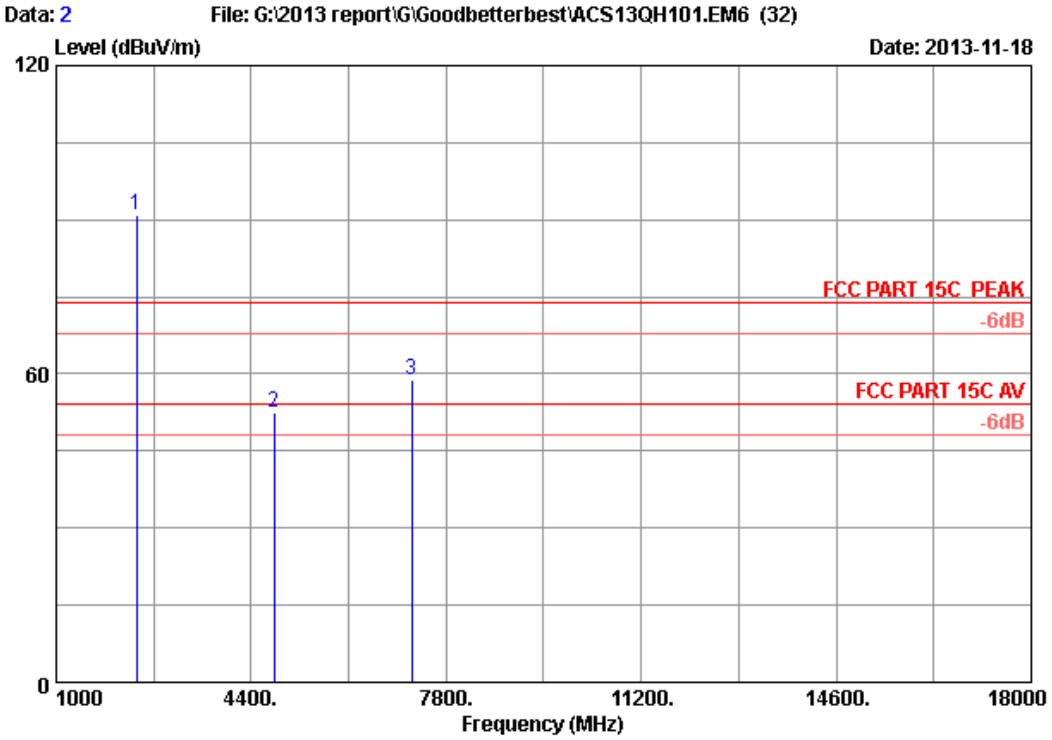
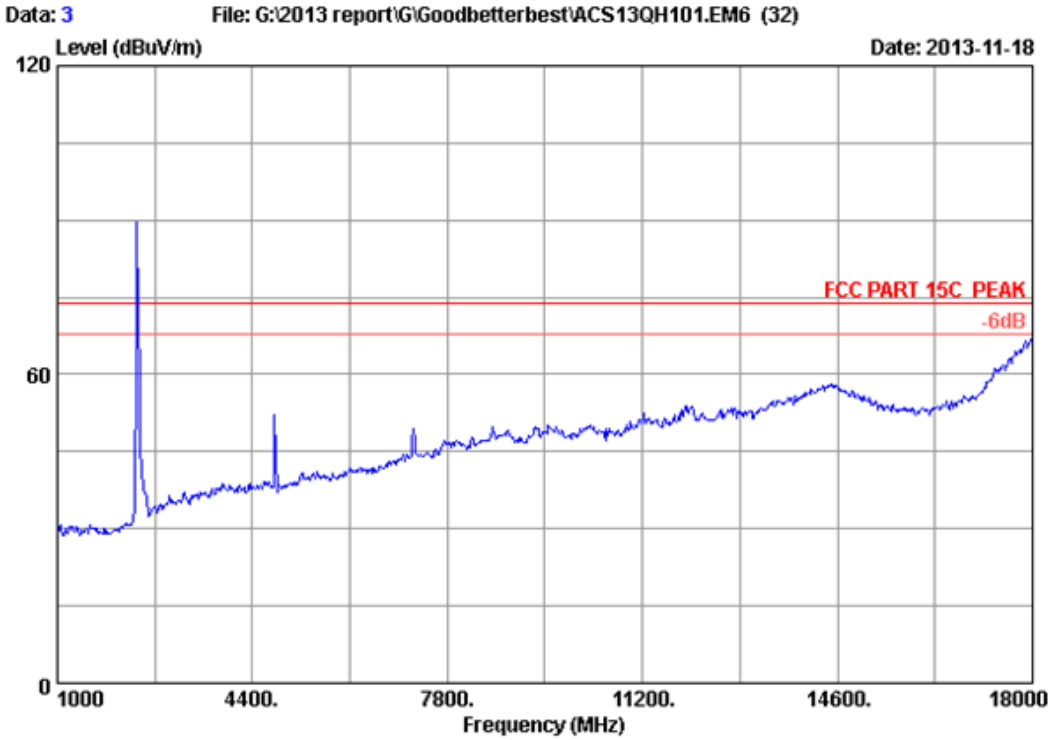


Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : GFSK 2402MHz Tx
E1RMOB-21

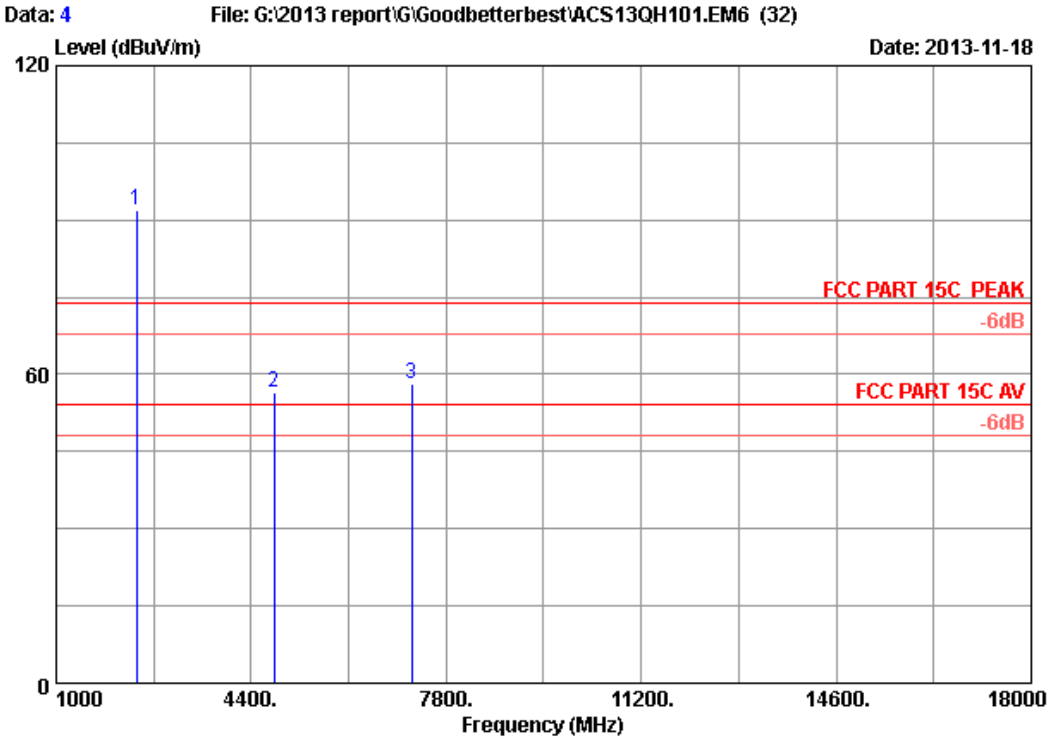
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	26.77	5.80	35.70	93.96	90.83	74.00	-16.83	Peak
2	4804.000	32.47	8.56	35.70	47.31	52.64	74.00	21.36	Peak
3	7206.000	35.44	10.97	35.46	47.83	58.78	74.00	15.22	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency （MHz）	Peak level （dBuv/m）	Duty cycle factor (dB)	AV level (dBuv/m)	Limit(dBuv/m)	Conclusion
7206.000	58.78	9.16	49.62	54	Pass




```
Site no.      : 3m Chamber                Data no.   : 3
Dis. / Ant.   : 3m   2012 3115 (4580)     Ant. pol.  : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                  Engineer   : Leo-Li
EUT           : EX1-R Bluetooth Headset with NC
Power supply  : DC 5V From PC Input AC 120V/50Hz
Test mode     : GFSK 2402MHz      Tx
                E1RMOB-21
```

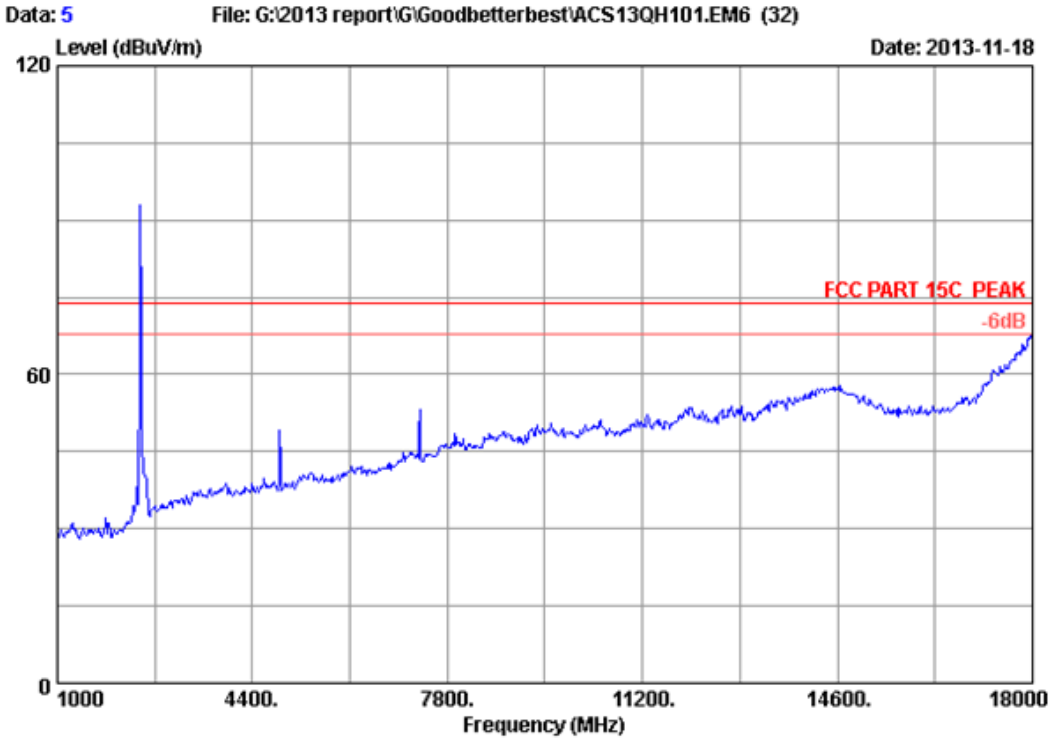


Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : GFSK 2402MHz Tx
E1RMOB-21

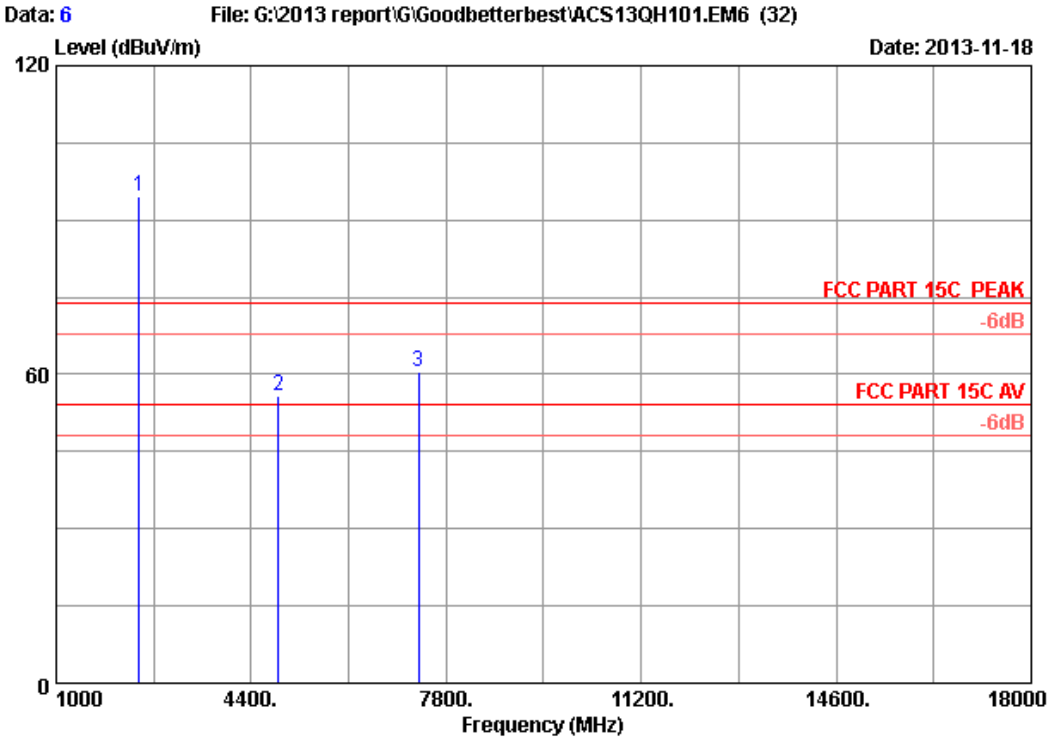
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	26.77	5.80	35.70	94.90	91.77	74.00	-17.77	Peak
2	4804.000	32.47	8.56	35.70	51.12	56.45	74.00	17.55	Peak
3	7203.000	35.43	10.97	35.46	47.29	58.23	74.00	15.77	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency（MHz）	Peak level（dBuv/m）	Duty cycle factor (dB)	AV level (dBuv/m)	Limit(dBuv/m)	Conclusion
4804.000	56.45	9.16	47.29	54	Pass
7203.000	58.23	9.16	49.07	54	Pass



Site no.	: 3m Chamber	Data no.	: 5
Dis. / Ant.	: 3m 2012 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Leo-Li
EUT	: EX1-R Bluetooth Headset with NC		
Power supply	: DC 5V From PC Input AC 120V/50Hz		
Test mode	: GFSK 2441MHz Tx		
	E1RMOB-21		

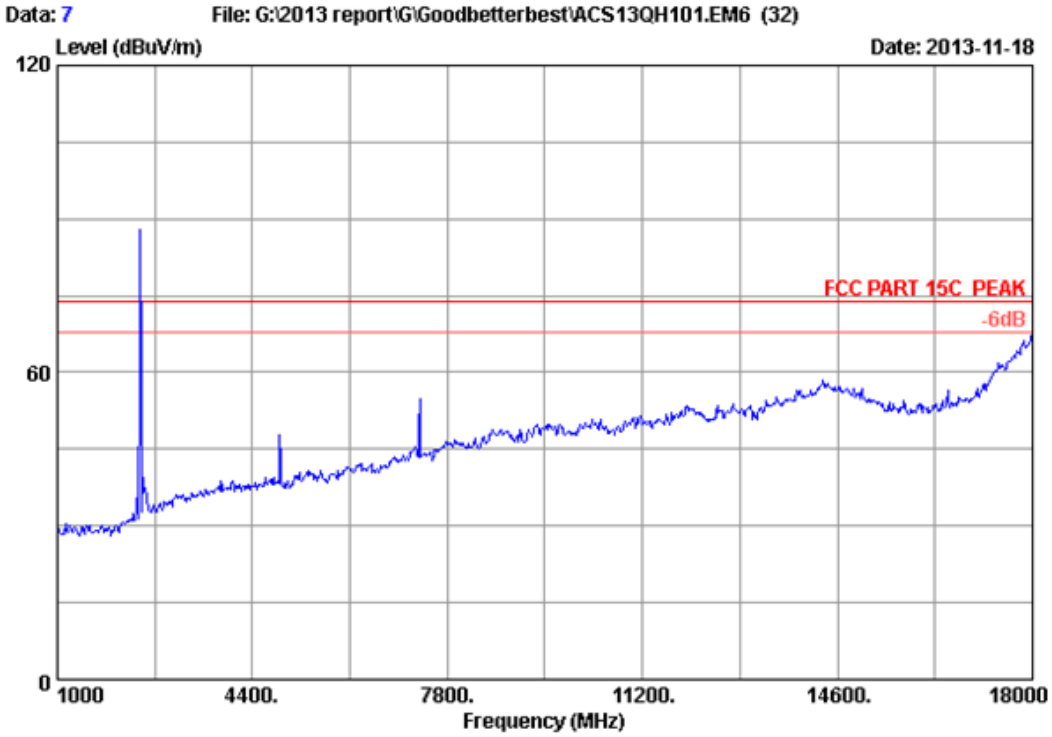


Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : GFSK 2441MHz Tx
E1RMOB-21

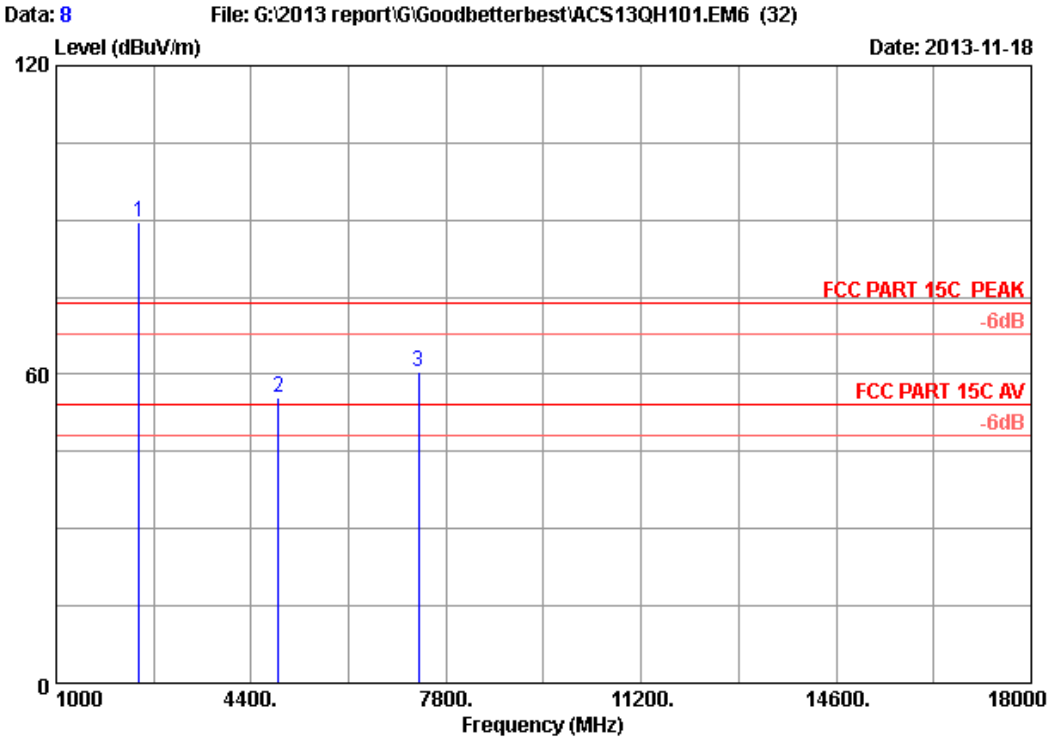
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	27.02	5.86	35.70	97.31	94.49	74.00	-20.49	Peak
2	4882.000	32.64	8.64	35.70	50.23	55.81	74.00	18.19	Peak
3	7323.000	35.74	11.03	35.44	49.12	60.45	74.00	13.55	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency （MHz）	Peak level （dBuv/m）	Duty cycle factor (dB)	AV level (dBuv/m)	Limit(dBuv/m)	Conclusion
4882.000	55.81	9.16	46.65	54	Pass
7323.000	60.45	9.16	51.29	54	Pass



Site no.	: 3m Chamber	Data no.	: 7
Dis. / Ant.	: 3m 2012 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Leo-Li
EUT	: EX1-R Bluetooth Headset with NC		
Power supply	: DC 5V From PC Input AC 120V/50Hz		
Test mode	: GFSK 2441MHz Tx		
	E1RMOB-21		

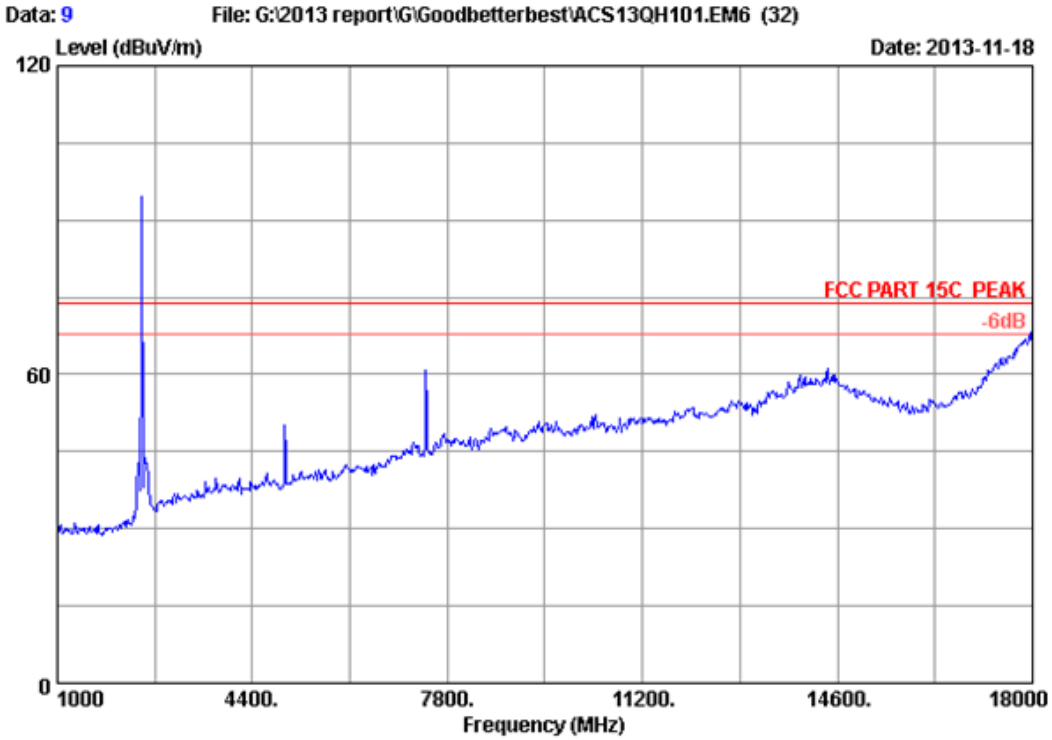


Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : GFSK 2441MHz Tx
E1RMOB-21

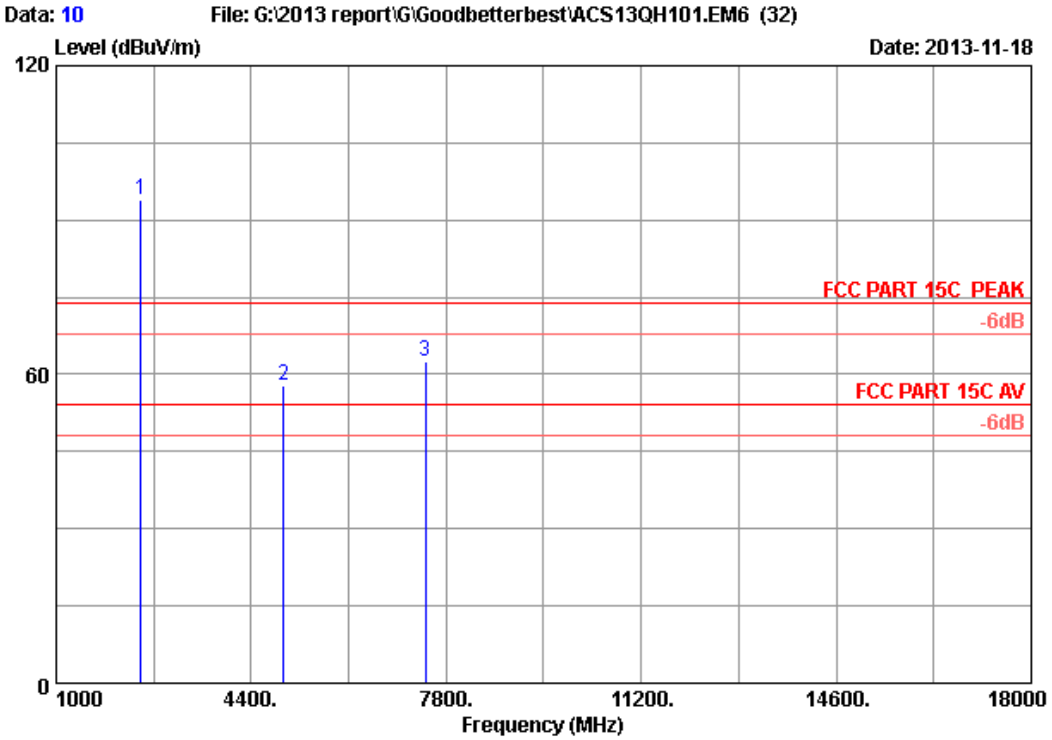
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	27.02	5.86	35.70	92.24	89.42	74.00	-15.42	Peak
2	4882.000	32.64	8.64	35.70	49.96	55.54	74.00	18.46	Peak
3	7323.000	35.74	11.03	35.44	49.26	60.59	74.00	13.41	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency （MHz）	Peak level （dBuv/m）	Duty cycle factor (dB)	AV level (dBuv/m)	Limit(dBuv/m)	Conclusion
4882.000	55.45	9.16	46.29	54	Pass
7323.000	60.59	9.16	51.43	54	Pass



Site no.	: 3m Chamber	Data no.	: 9
Dis. / Ant.	: 3m 2012 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Leo-Li
EUT	: EX1-R Bluetooth Headset with NC		
Power supply	: DC 5V From PC Input AC 120V/50Hz		
Test mode	: GFSK 2480MHz Tx		
	E1RMOB-21		

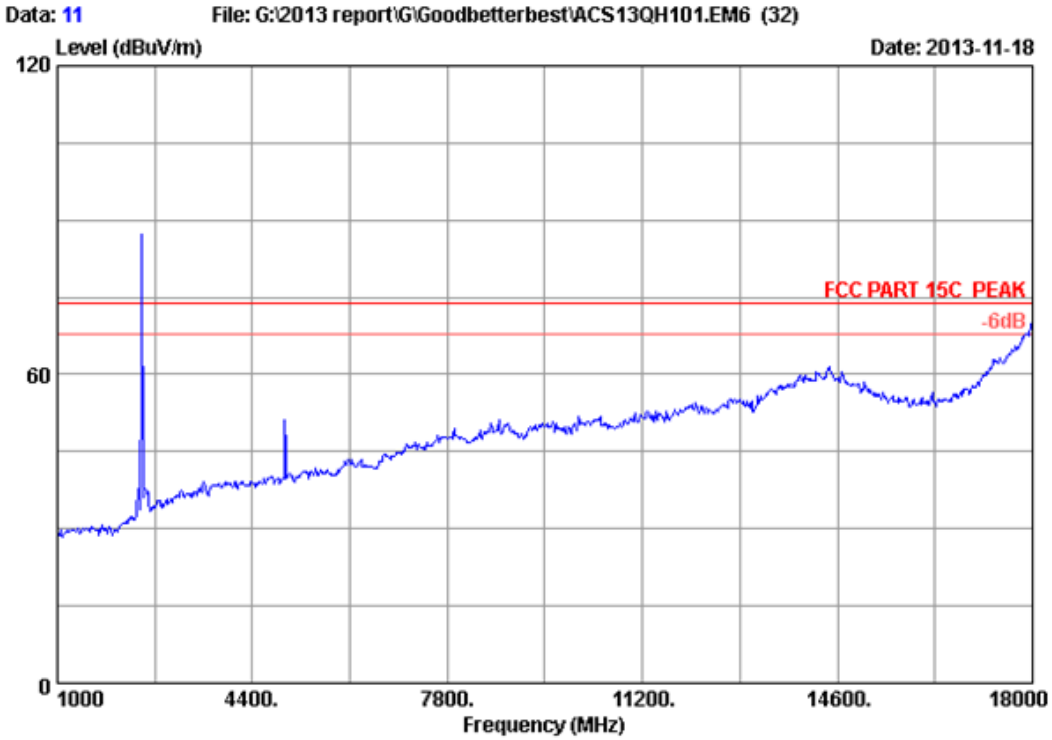


Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : GFSK 2480MHz Tx
E1RMOB-21

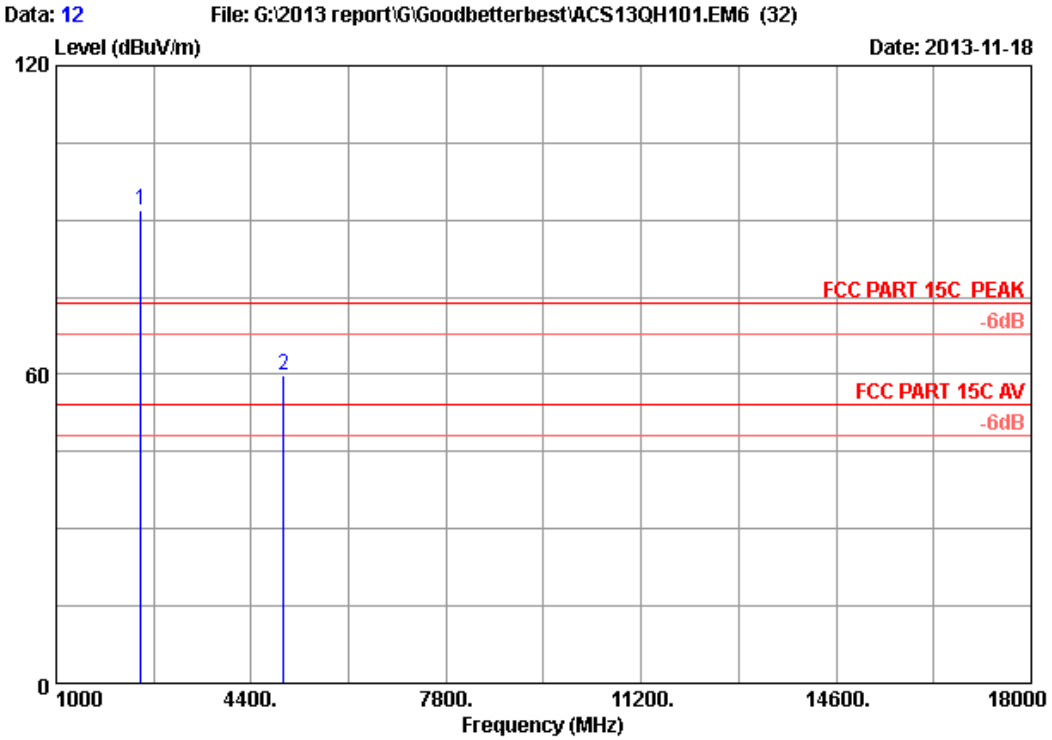
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	27.27	5.91	35.70	96.43	93.91	74.00	-19.91	Peak
2	4960.000	32.81	8.72	35.70	51.97	57.80	74.00	16.20	Peak
3	7440.000	36.04	11.09	35.41	50.75	62.47	74.00	11.53	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency（MHz）	Peak level（dBuv/m）	Duty cycle factor (dB)	AV level (dBuv/m)	Limit(dBuv/m)	Conclusion
4960.000	57.80	9.16	48.64	54	Pass
7440.000	62.47	9.16	53.39	54	Pass



Site no.	: 3m Chamber	Data no.	: 11
Dis. / Ant.	: 3m 2012 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23*C/54%	Engineer	: Leo-Li
EUT	: EX1-R Bluetooth Headset with NC		
Power supply	: DC 5V From PC Input AC 120V/50Hz		
Test mode	: GFSK 2480MHz Tx		
	E1RMOB-21		

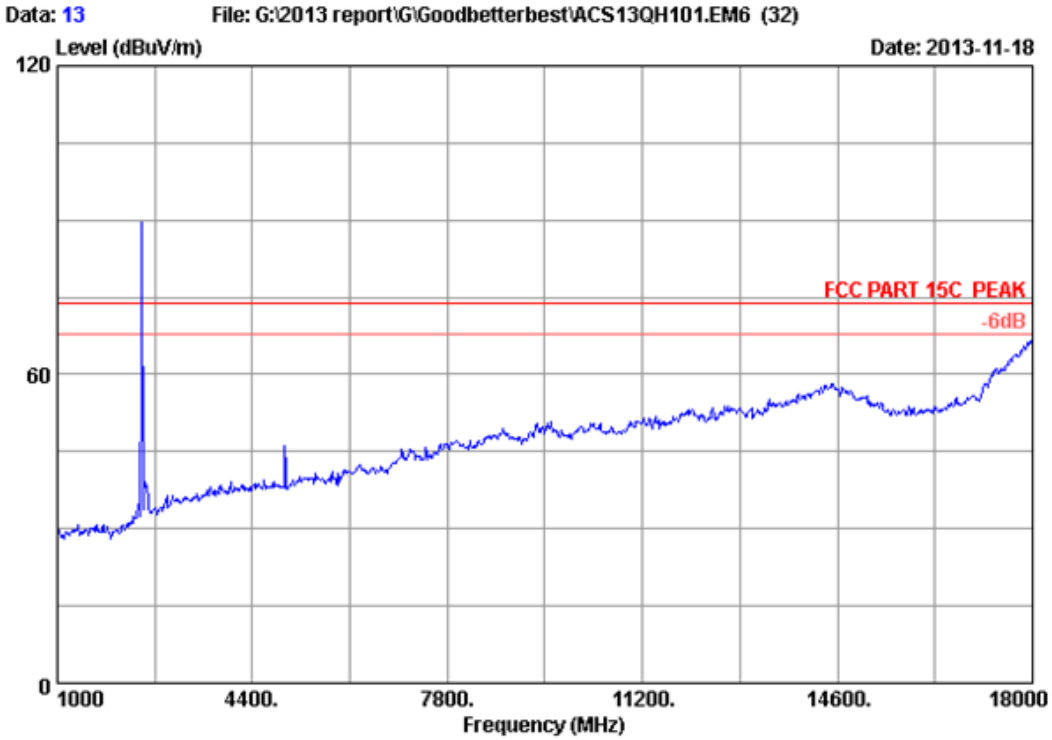


Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : GFSK 2480MHz Tx
E1RMOB-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	27.27	5.91	35.70	94.54	92.02	74.00	-18.02	Peak
2	4960.000	32.81	8.72	35.70	54.13	59.96	74.00	14.04	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency（MHz）	Peak level（dBuv/m）	Duty cycle factor (dB)	AV level (dBuv/m)	Limit(dBuv/m)	Conclusion
4960.000	59.96	9.16	50.8	54	Pass

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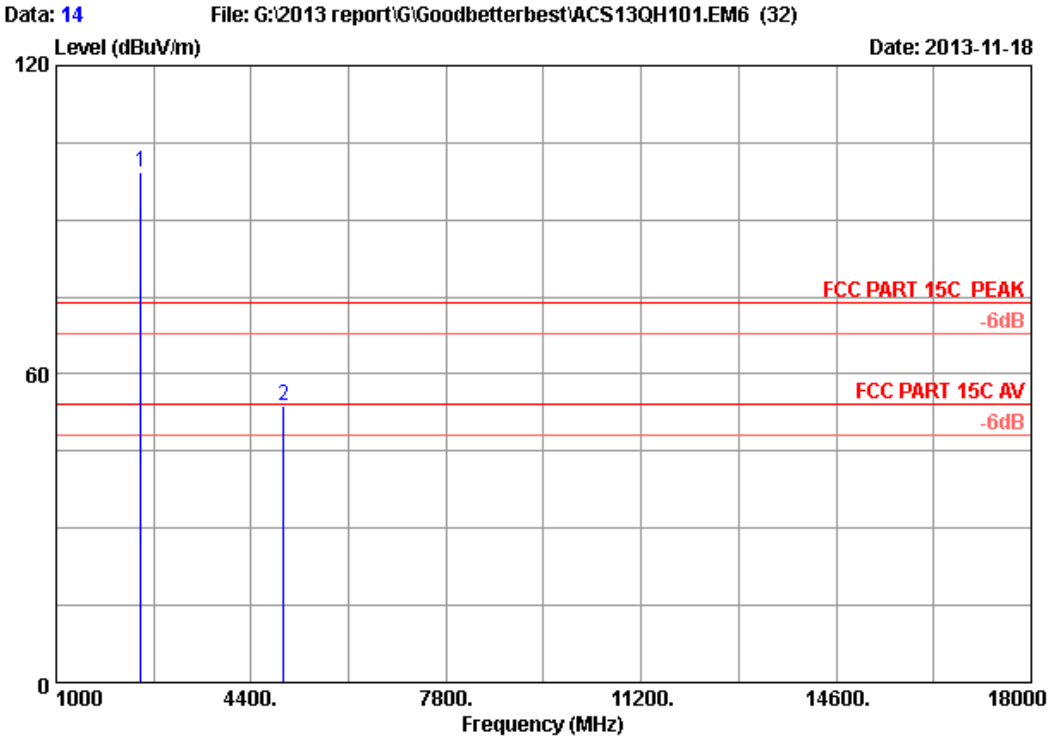
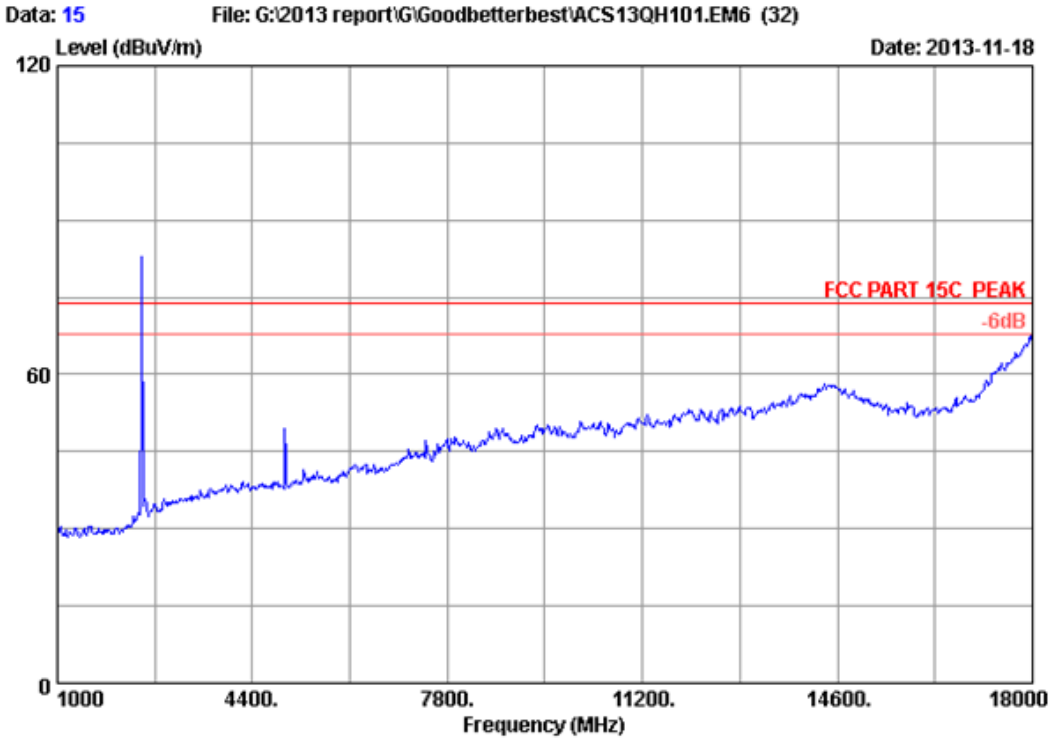
Site no.      : 3m Chamber                Data no.   : 13
Dis. / Ant.   : 3m   2012 3115 (4580)     Ant. pol.  : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                  Engineer   : Leo-Li
EUT           : EX1-R Bluetooth Headset with NC
Power supply  : DC 5V From PC Input AC 120V/50Hz
Test mode     : 8DPSK 2480MHz      Tx
                E1RMOB-21
```



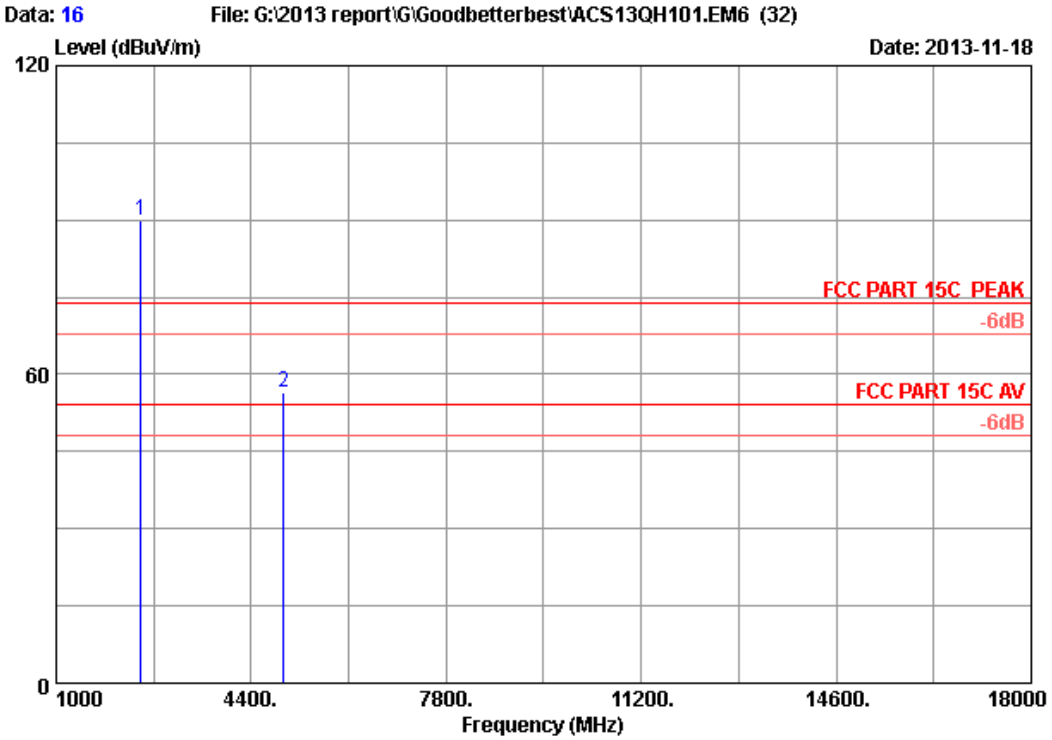
Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : 8DPSK 2480MHz Tx
E1RMOB-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	27.27	5.91	35.70	101.82	99.30	74.00	-25.30	Peak
2	4960.000	32.81	8.72	35.70	48.04	53.87	74.00	20.13	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.




```
Site no.      : 3m Chamber                Data no.   : 15
Dis. / Ant.   : 3m   2012 3115 (4580)     Ant. pol.  : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                  Engineer   : Leo-Li
EUT           : EX1-R Bluetooth Headset with NC
Power supply  : DC 5V From PC Input AC 120V/50Hz
Test mode     : 8DPSK 2480MHz      Tx
                E1RMOB-21
```

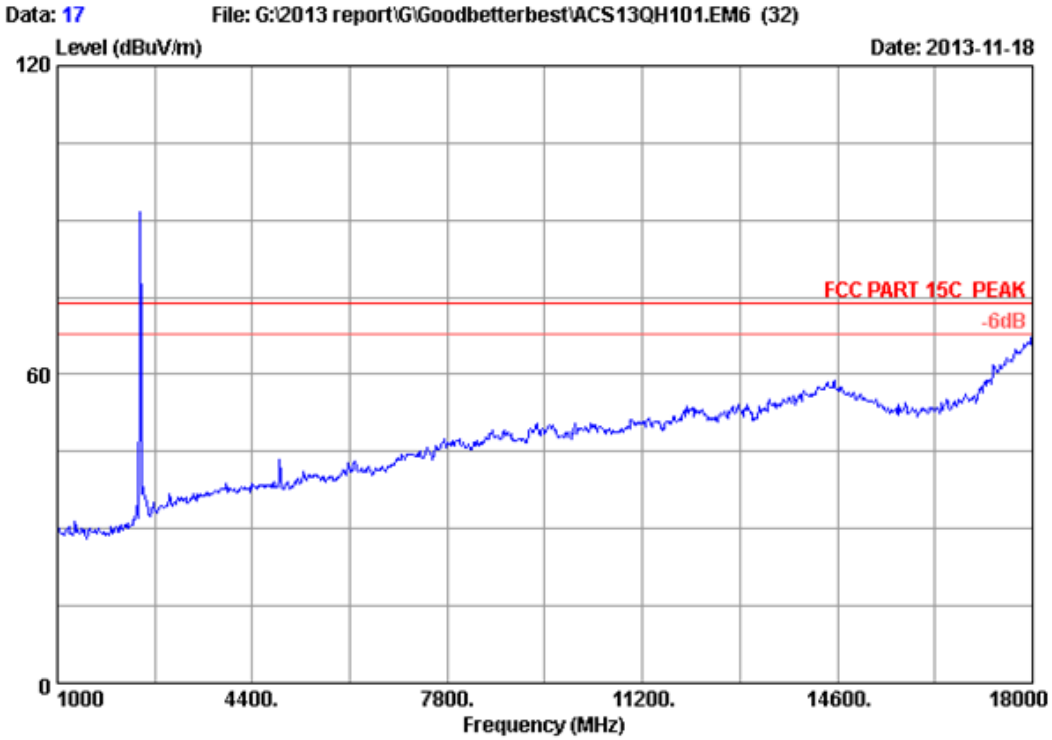


Site no. : 3m Chamber Data no. : 16
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : 8DPSK 2480MHz Tx
E1RMOB-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	27.27	5.91	35.70	92.46	89.94	74.00	-15.94	Peak
2	4960.000	32.81	8.72	35.70	50.68	56.51	74.00	17.49	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency（MHz）	Peak level（dBuv/m）	Duty cycle factor (dB)	AV level (dBuv/m)	Limit(dBuv/m)	Conclusion
4960.000	56.51	9.16	47.35	54	Pass

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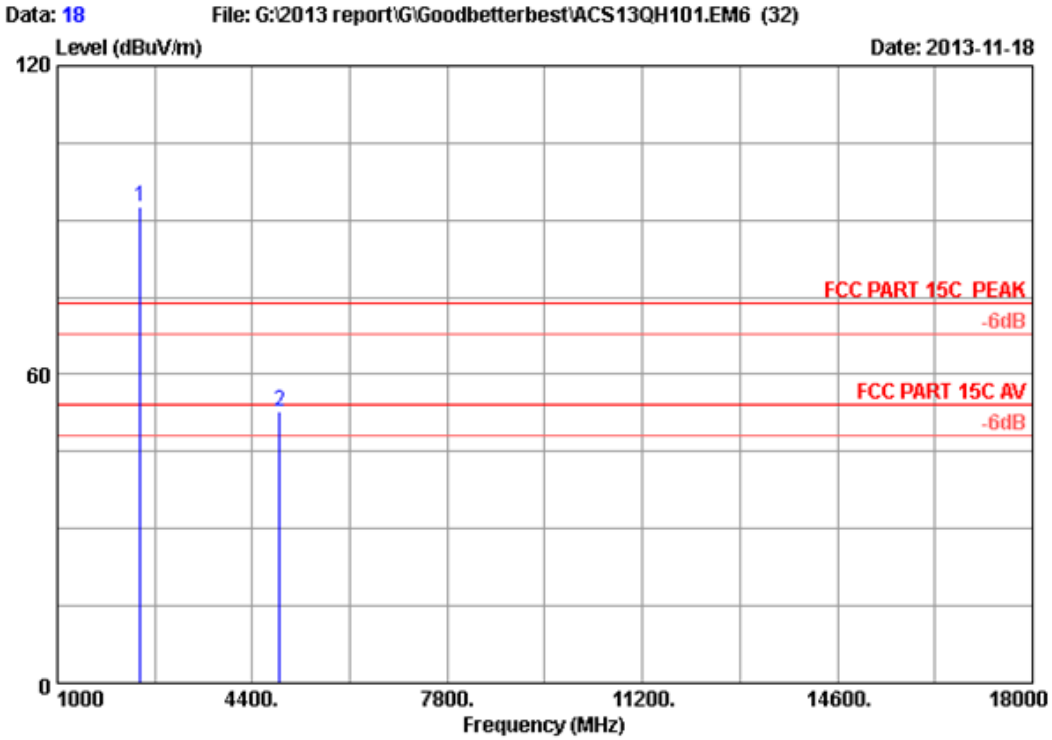
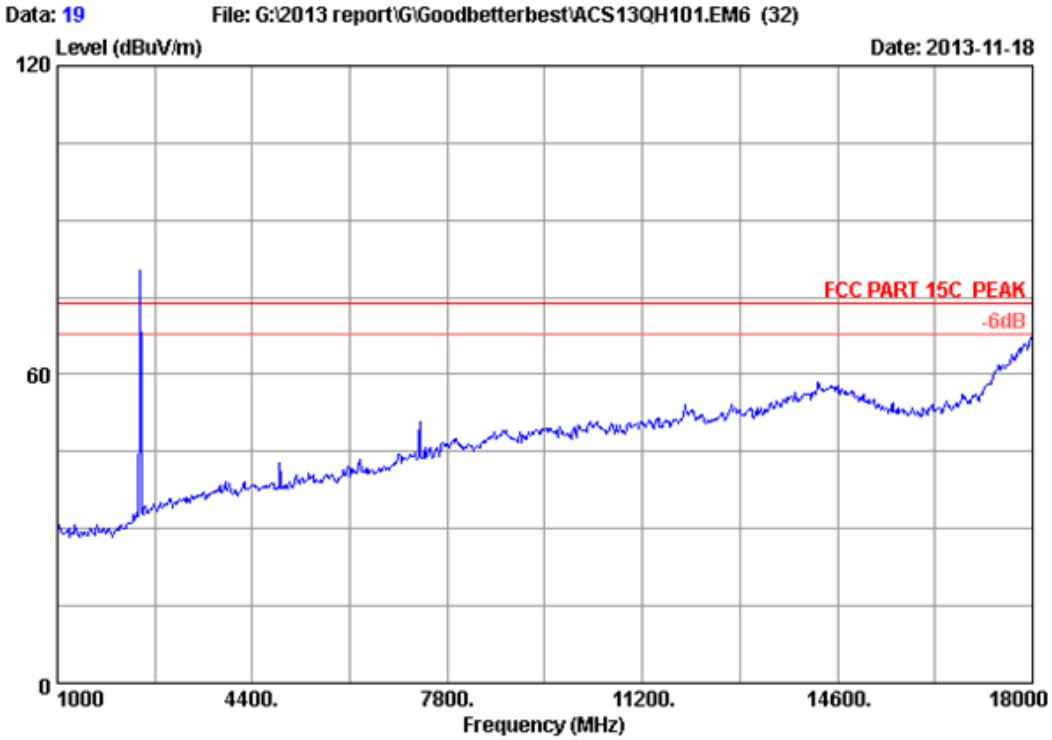
Site no.      : 3m Chamber                Data no.   : 17
Dis. / Ant.   : 3m   2012 3115 (4580)     Ant. pol.  : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                  Engineer   : Leo-Li
EUT           : EX1-R Bluetooth Headset with NC
Power supply  : DC 5V From PC Input AC 120V/50Hz
Test mode     : 8DPSK 2441MHz      Tx
                E1RMOB-21
```



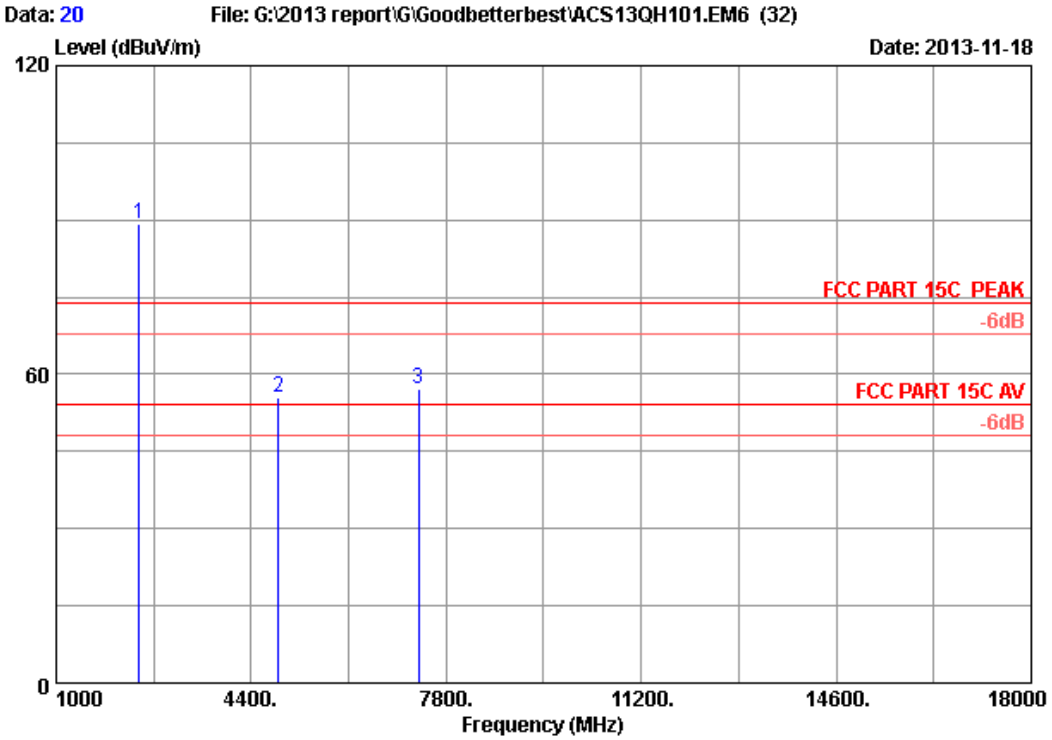
Site no. : 3m Chamber Data no. : 18
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : 8DPSK 2441MHz Tx
E1RMOB-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	27.02	5.86	35.70	95.56	92.74	74.00	-18.74	Peak
2	4882.000	32.64	8.64	35.70	47.23	52.81	74.00	21.19	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.




```
Site no.      : 3m Chamber                Data no.   : 19
Dis. / Ant.   : 3m   2012 3115 (4580)     Ant. pol.  : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                  Engineer   : Leo-Li
EUT           : EX1-R Bluetooth Headset with NC
Power supply  : DC 5V From PC Input AC 120V/50Hz
Test mode     : 8DPSK 2441MHz      Tx
                E1RMOB-21
```

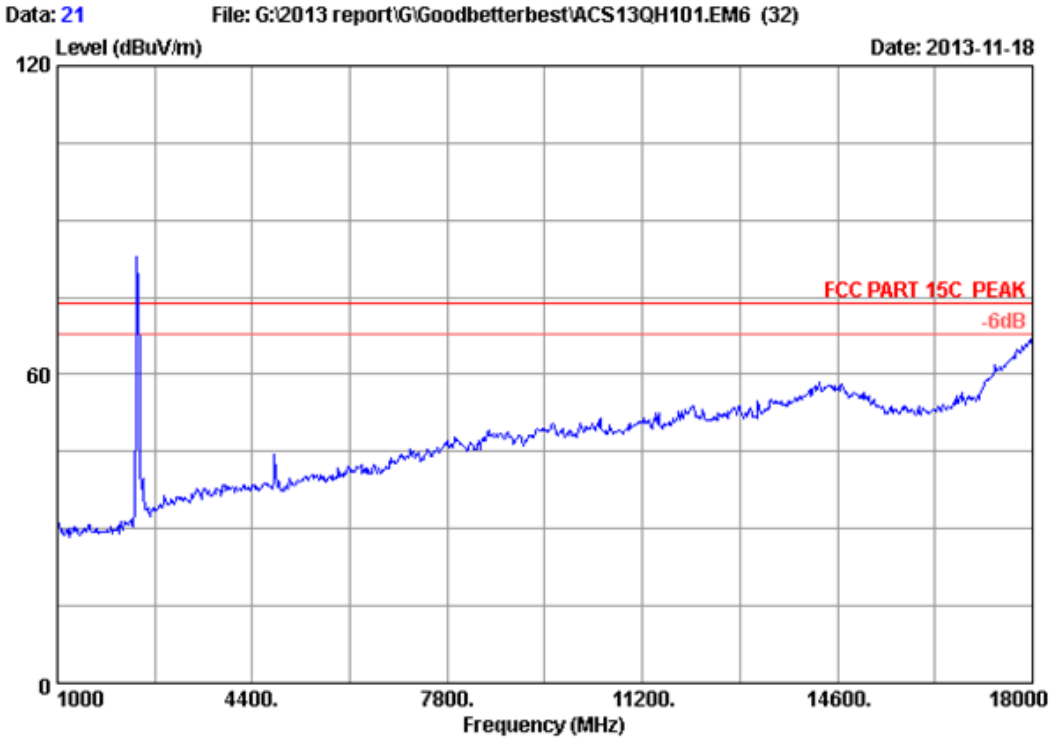


Site no. : 3m Chamber Data no. : 20
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : 8DPSK 2441MHz Tx
E1RMOB-21

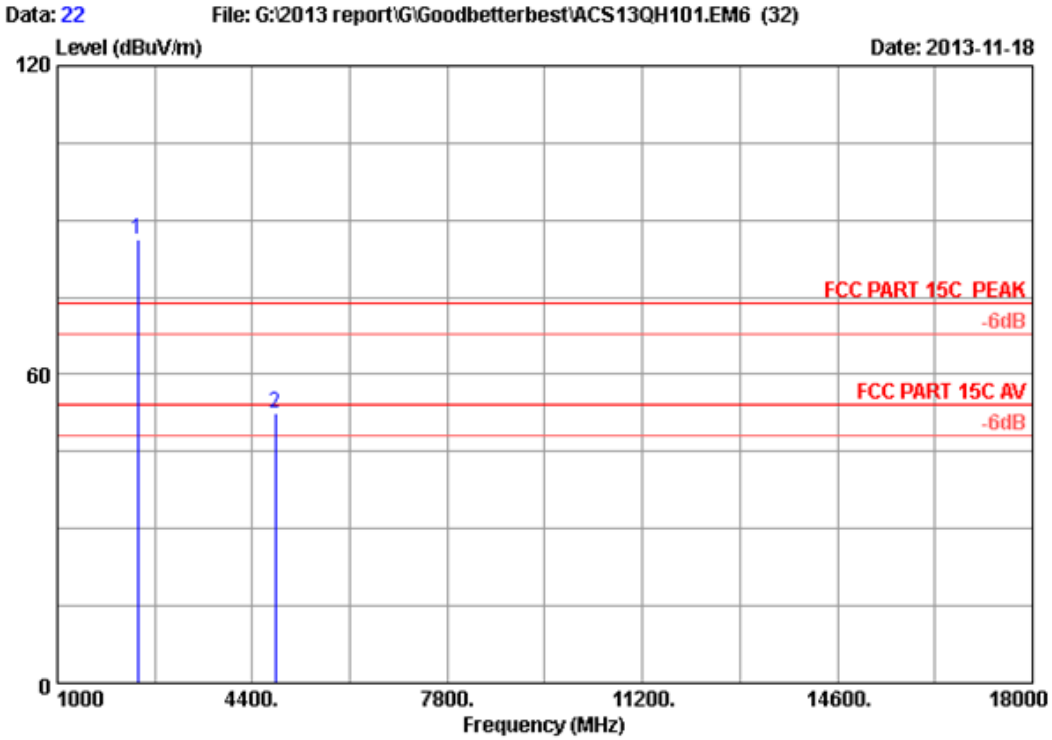
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	27.02	5.86	35.70	92.01	89.19	74.00	-15.19	Peak
2	4882.000	32.64	8.64	35.70	49.86	55.44	74.00	18.56	Peak
3	7323.000	35.74	11.03	35.44	45.72	57.05	74.00	16.95	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency （MHz）	Peak level （dBuv/m）	Duty cycle factor (dB)	AV level (dBuv/m)	Limit(dBuv/m)	Conclusion
4882.000	55.44	9.16	46.28	54	Pass
7323.000	57.05	9.16	47.89	54	Pass



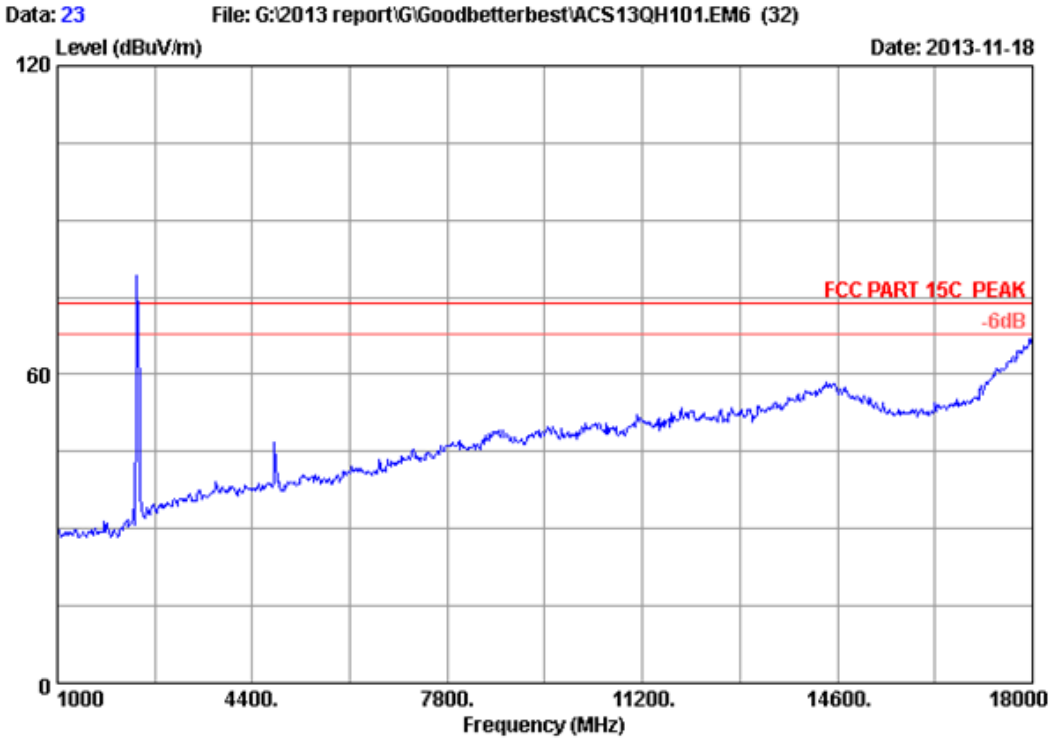

```
Site no.      : 3m Chamber                Data no.   : 21
Dis. / Ant.   : 3m   2012 3115 (4580)     Ant. pol.  : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                  Engineer   : Leo-Li
EUT           : EX1-R Bluetooth Headset with NC
Power supply  : DC 5V From PC Input AC 120V/50Hz
Test mode     : 8DPSK 2402MHz      Tx
                E1RMOB-21
```



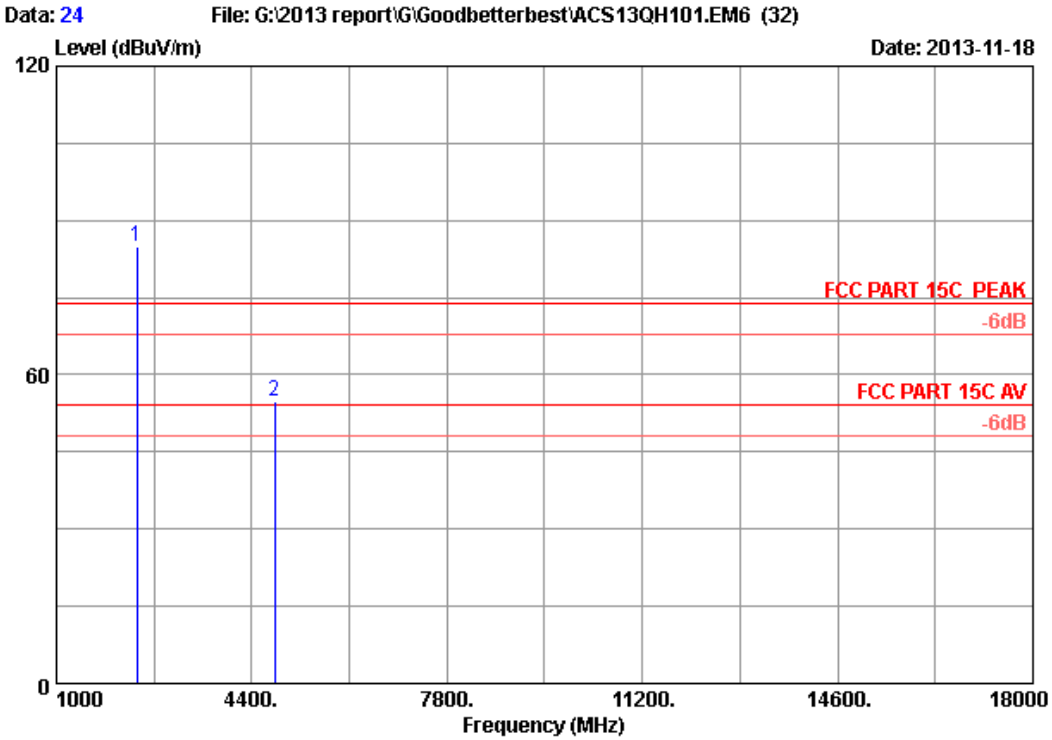
Site no. : 3m Chamber Data no. : 22
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : 8DPSK 2402MHz Tx
E1RMOB-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	26.77	5.80	35.70	89.42	86.29	74.00	-12.29	Peak
2	4804.000	32.47	8.56	35.70	47.12	52.45	74.00	21.55	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.




```
Site no.      : 3m Chamber                Data no.   : 23
Dis. / Ant.   : 3m   2012 3115 (4580)     Ant. pol.  : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                  Engineer   : Leo-Li
EUT           : EX1-R Bluetooth Headset with NC
Power supply  : DC 5V From PC Input AC 120V/50Hz
Test mode     : 8DPSK 2402MHz      Tx
                E1RMOB-21
```



Site no. : 3m Chamber Data no. : 24
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : 8DPSK 2402MHz Tx
E1RMOB-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	26.77	5.80	35.70	88.16	85.03	74.00	-11.03	Peak
2	4804.000	32.47	8.56	35.70	49.55	54.88	74.00	19.12	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency（MHz）	Peak level（dBuv/m）	Duty cycle factor (dB)	AV level (dBuv/m)	Limit(dBuv/m)	Conclusion
4804.000	54.88	9.16	45.72	54	Pass

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,13	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,13	1 Year

5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

5.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

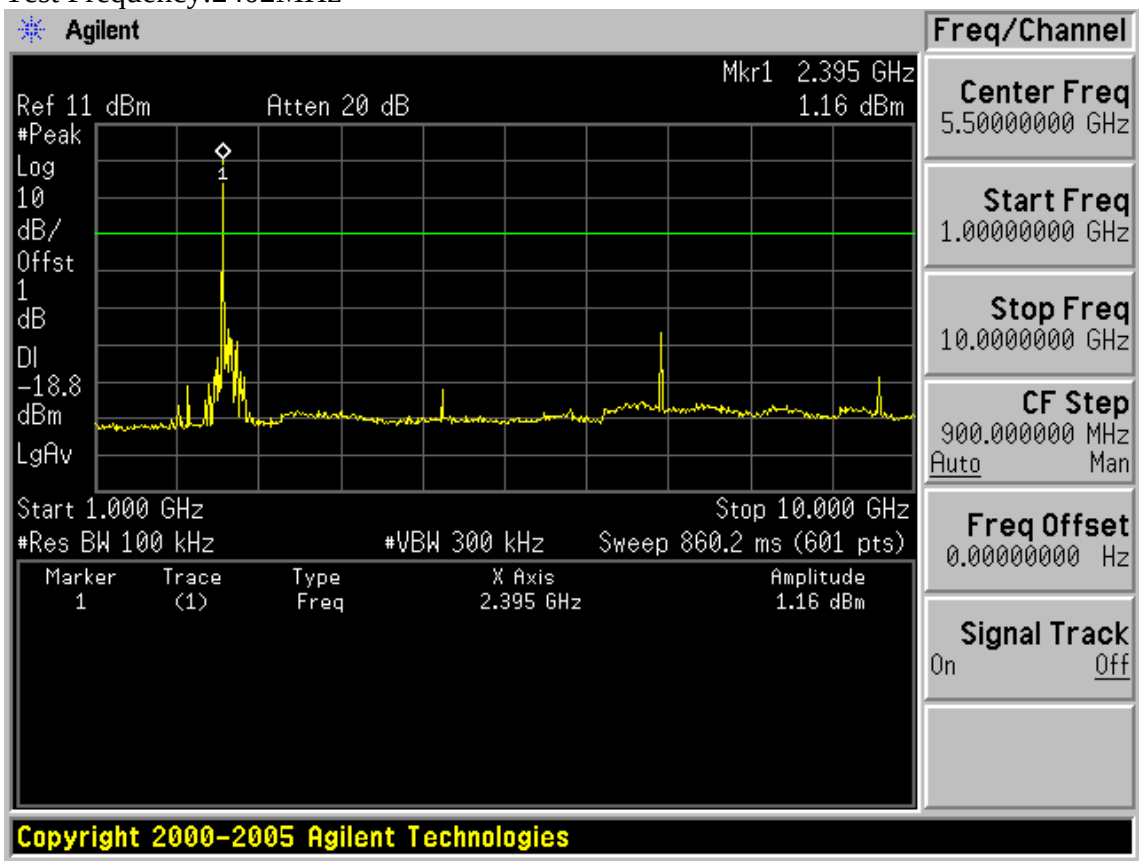
5.4. Test result

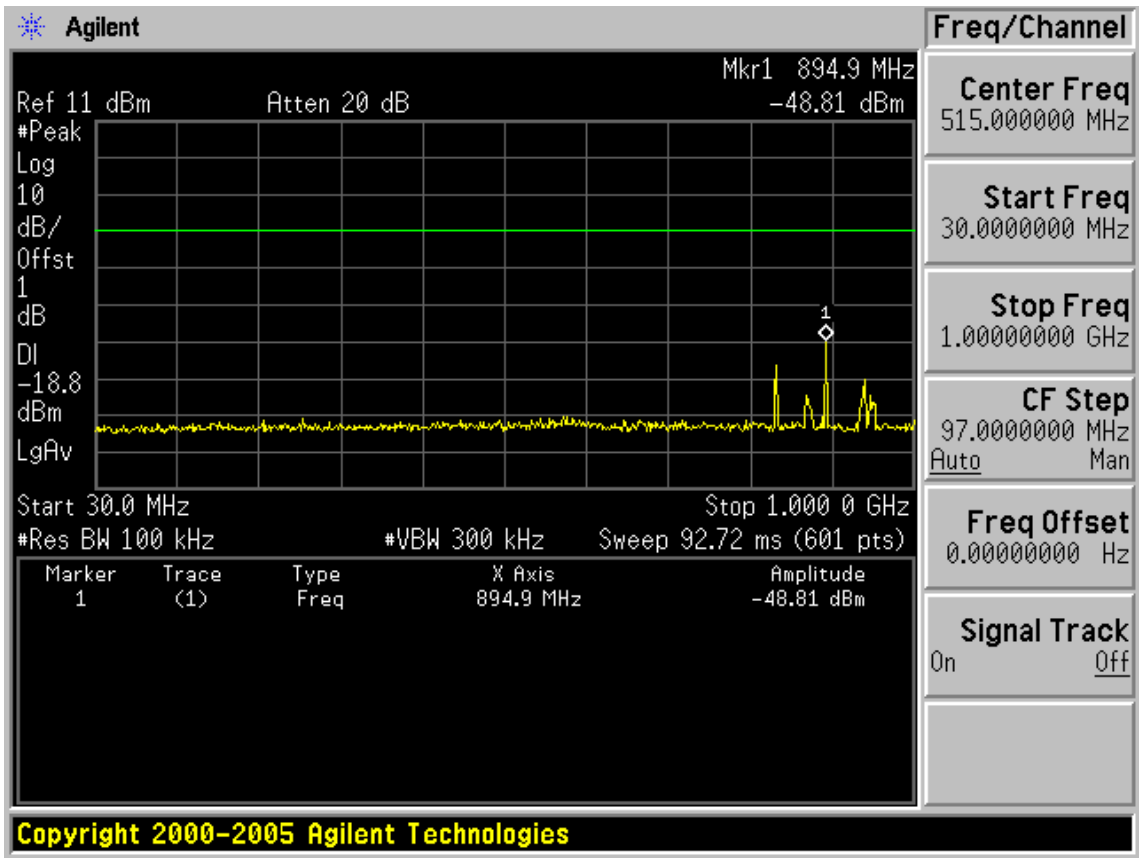
PASS (The testing data was attached in the next pages.)

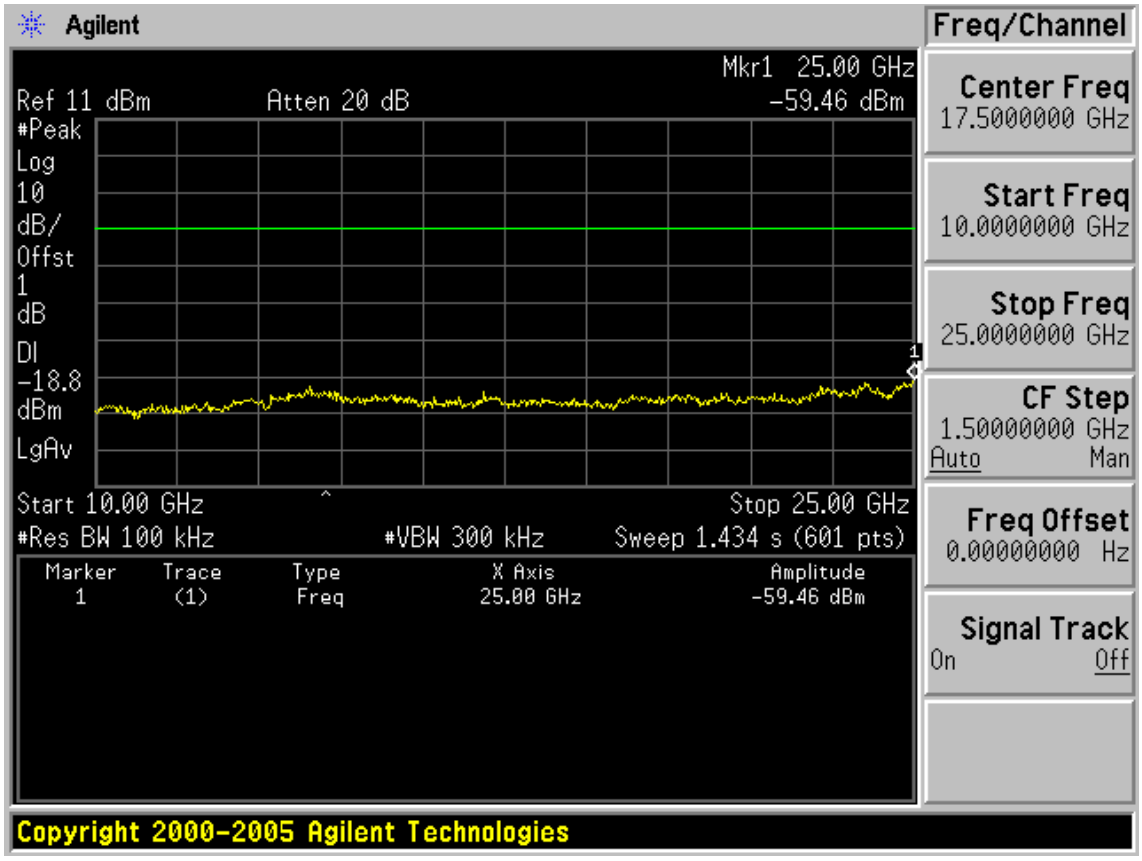
Hopping off

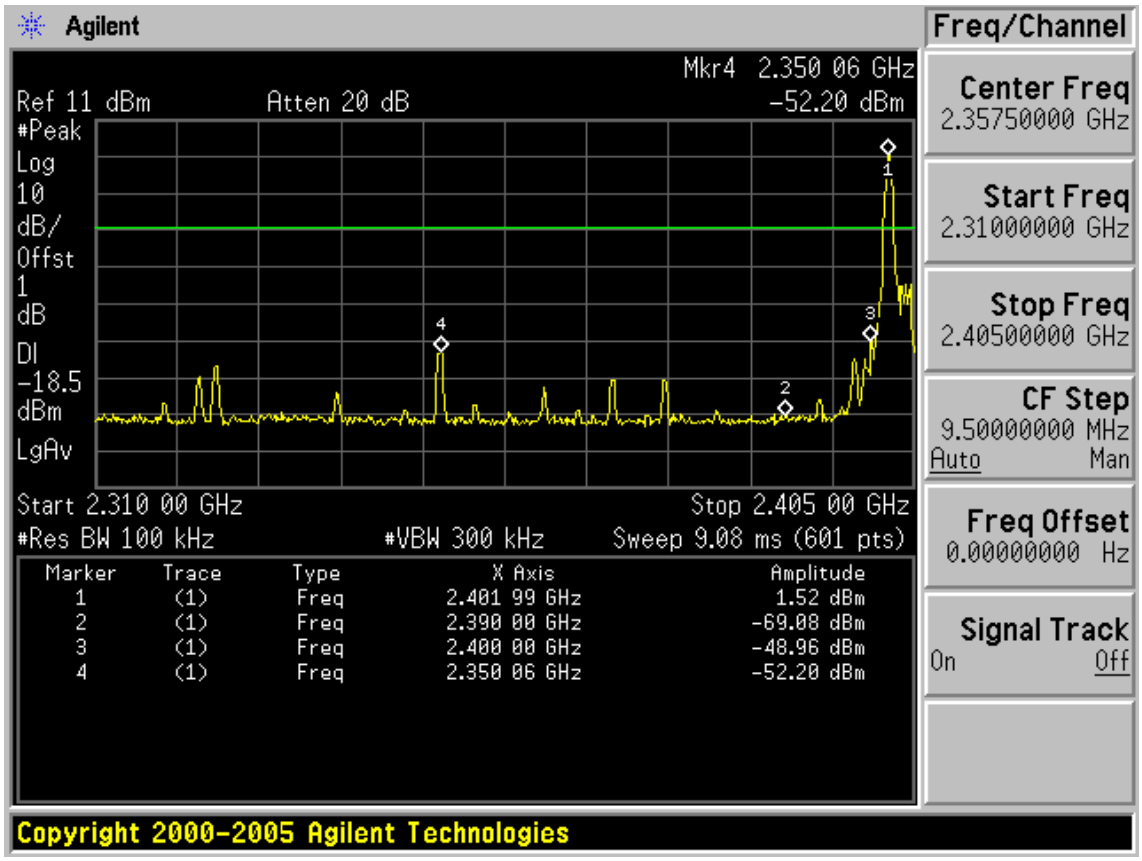
GFSK

Test Frequency:2402MHz

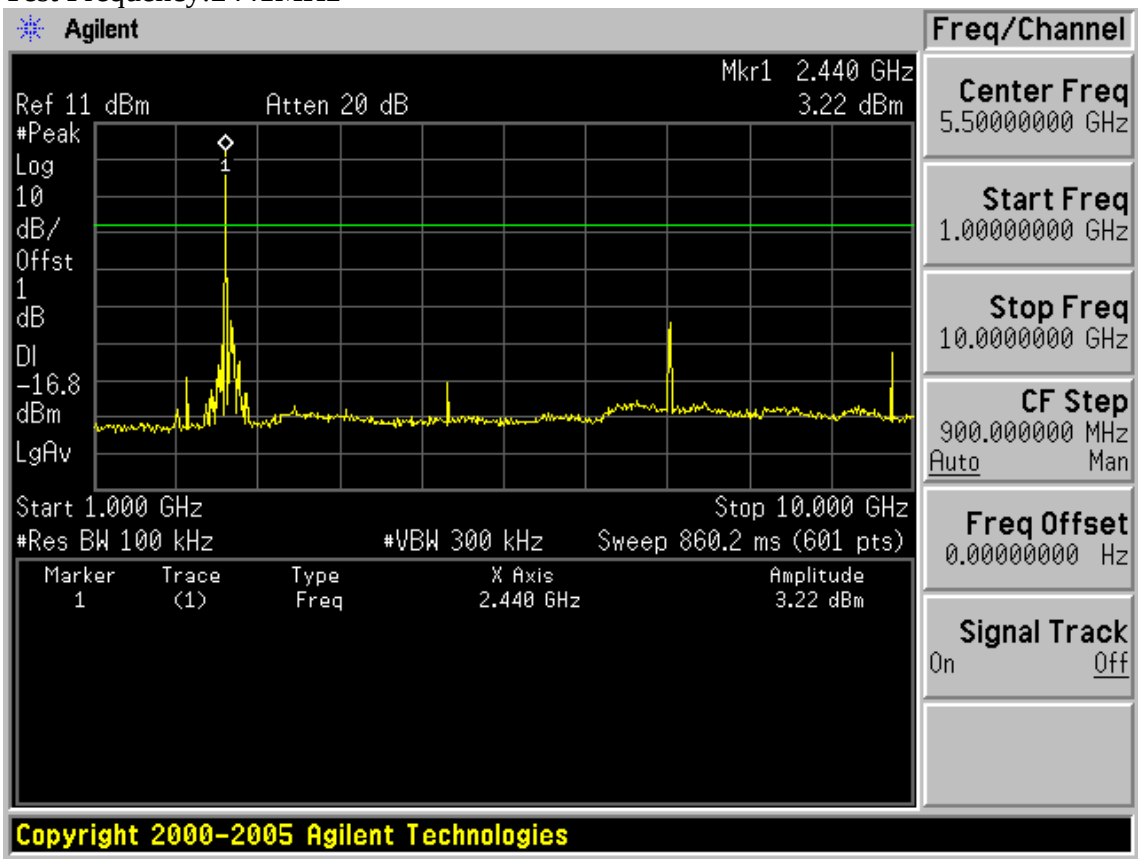


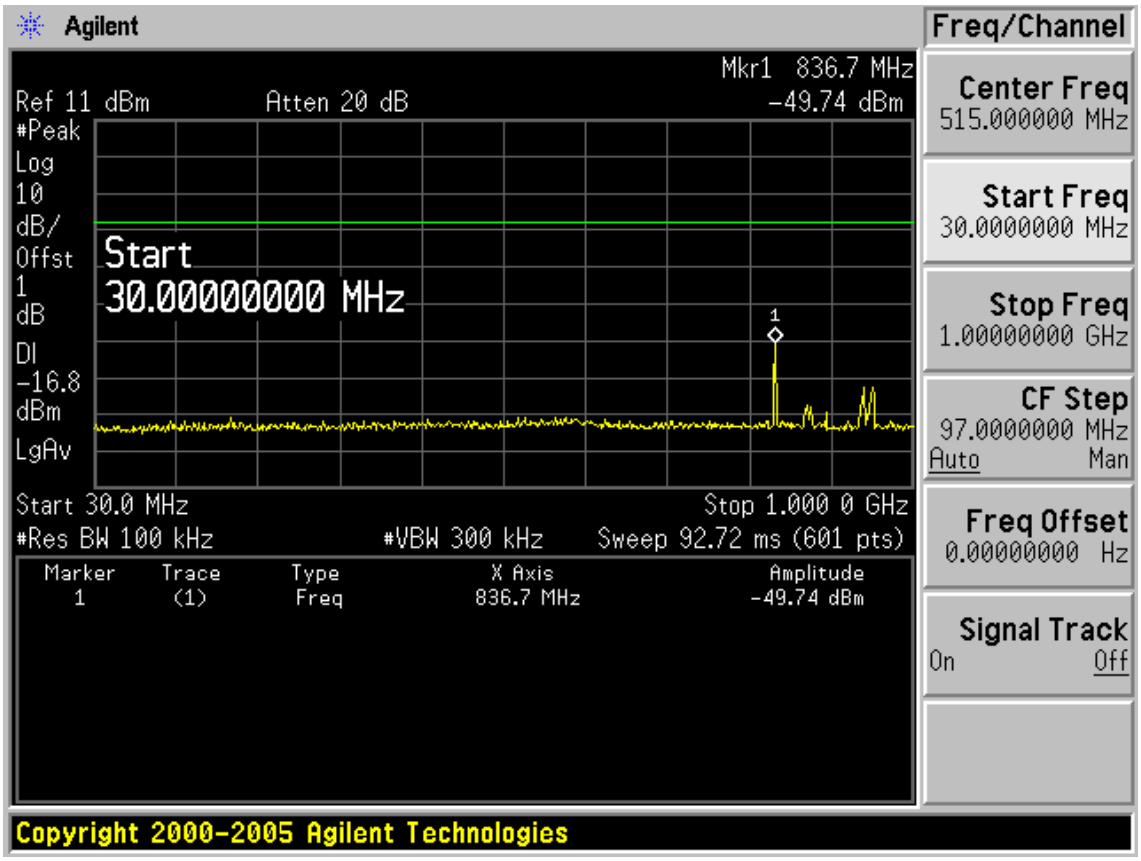


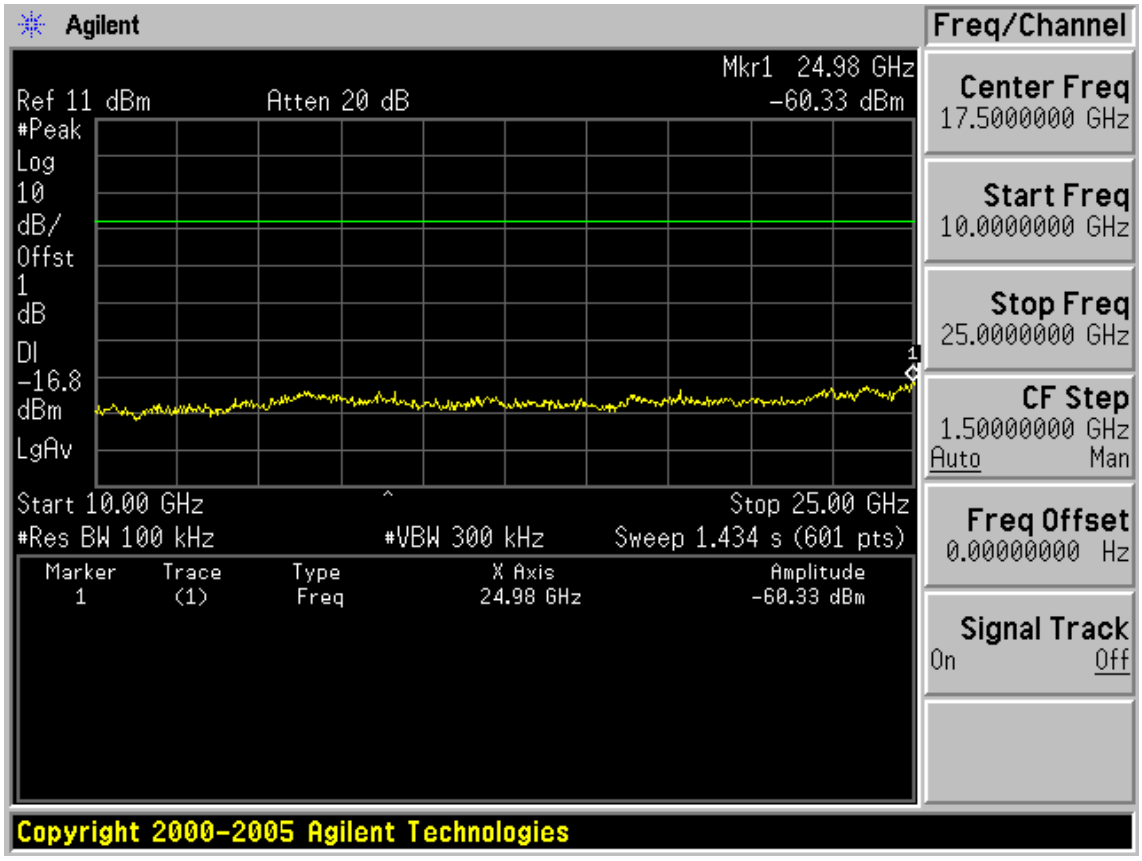

Agilent
Freq/Channel
Mkr1 25.00 GHz
Ref 11 dBm
Atten 20 dB
-59.46 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-18.8
dBm
LgAv
Start 10.00 GHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.434 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 25.00 GHz -59.46 dBm
Center Freq
17.5000000 GHz
Start Freq
10.0000000 GHz
Stop Freq
25.0000000 GHz
CF Step
1.50000000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Copyright 2000-2005 Agilent Technologies


Agilent
Freq/Channel
Mkr4 2.350 06 GHz
Ref 11 dBm
Atten 20 dB
-52.20 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-18.5
dBm
LgAv
Start 2.310 00 GHz
Stop 2.405 00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 9.08 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.401 99 GHz 1.52 dBm
2 (1) Freq 2.390 00 GHz -69.08 dBm
3 (1) Freq 2.400 00 GHz -48.96 dBm
4 (1) Freq 2.350 06 GHz -52.20 dBm
Center Freq
2.35750000 GHz
Start Freq
2.31000000 GHz
Stop Freq
2.40500000 GHz
CF Step
9.50000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Copyright 2000-2005 Agilent Technologies

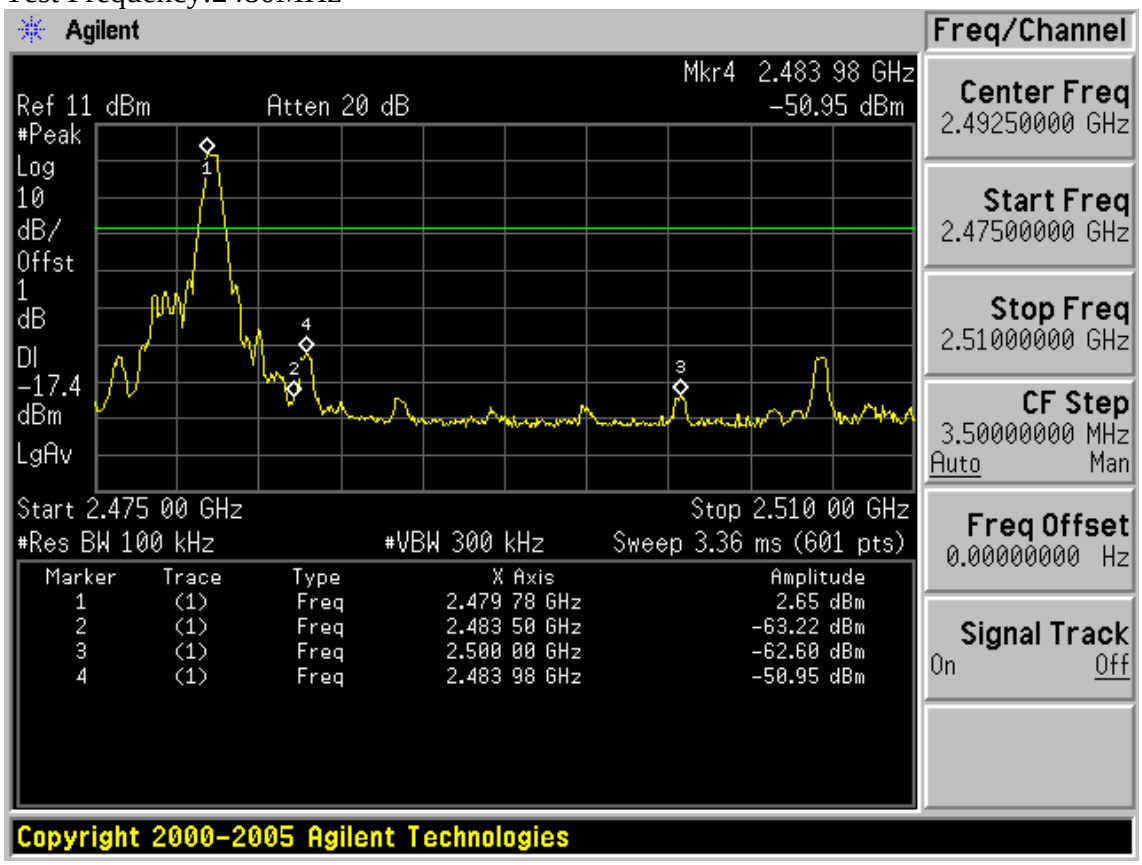
Test Frequency:2441MHz

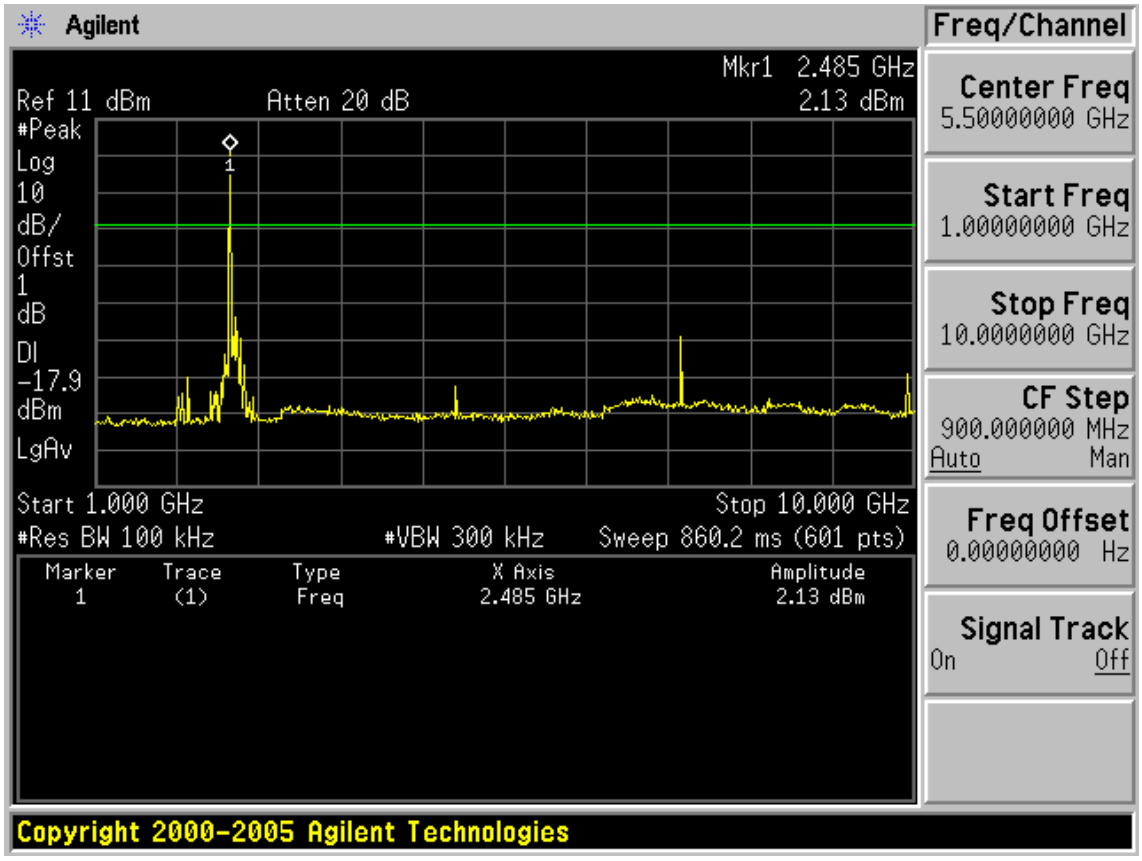


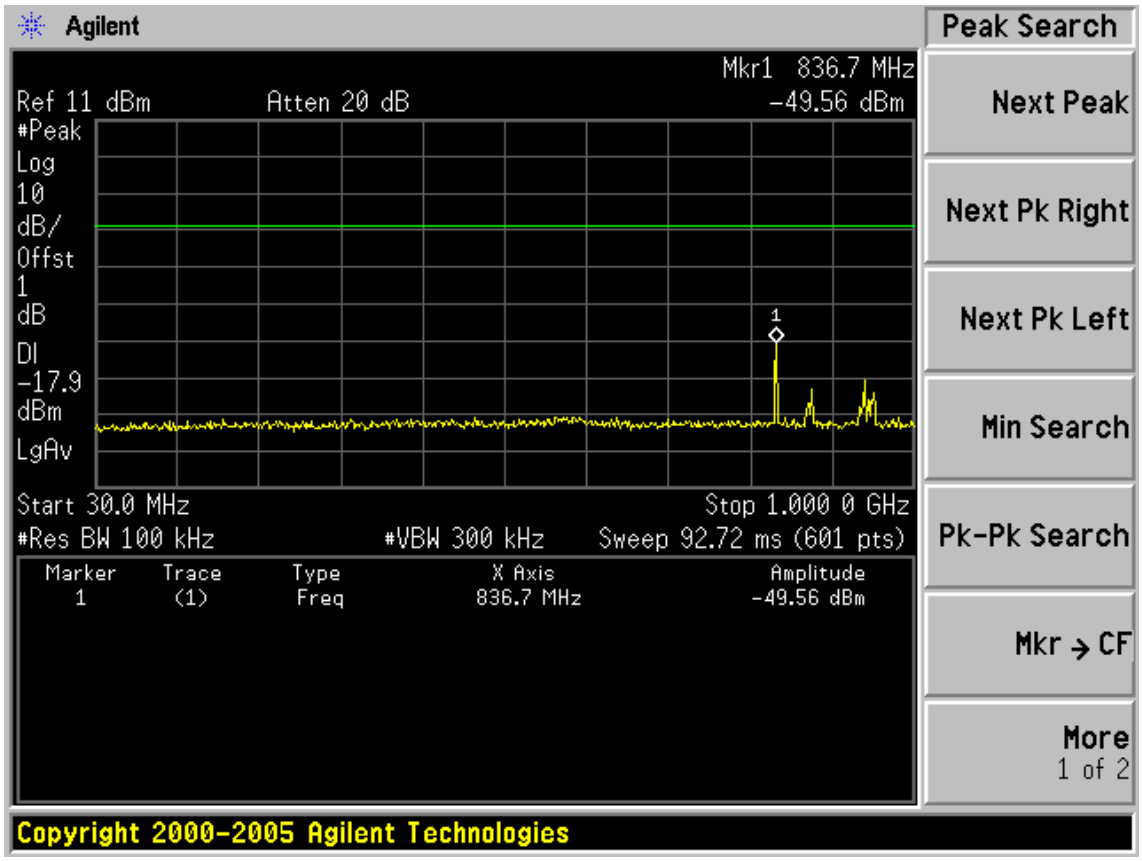


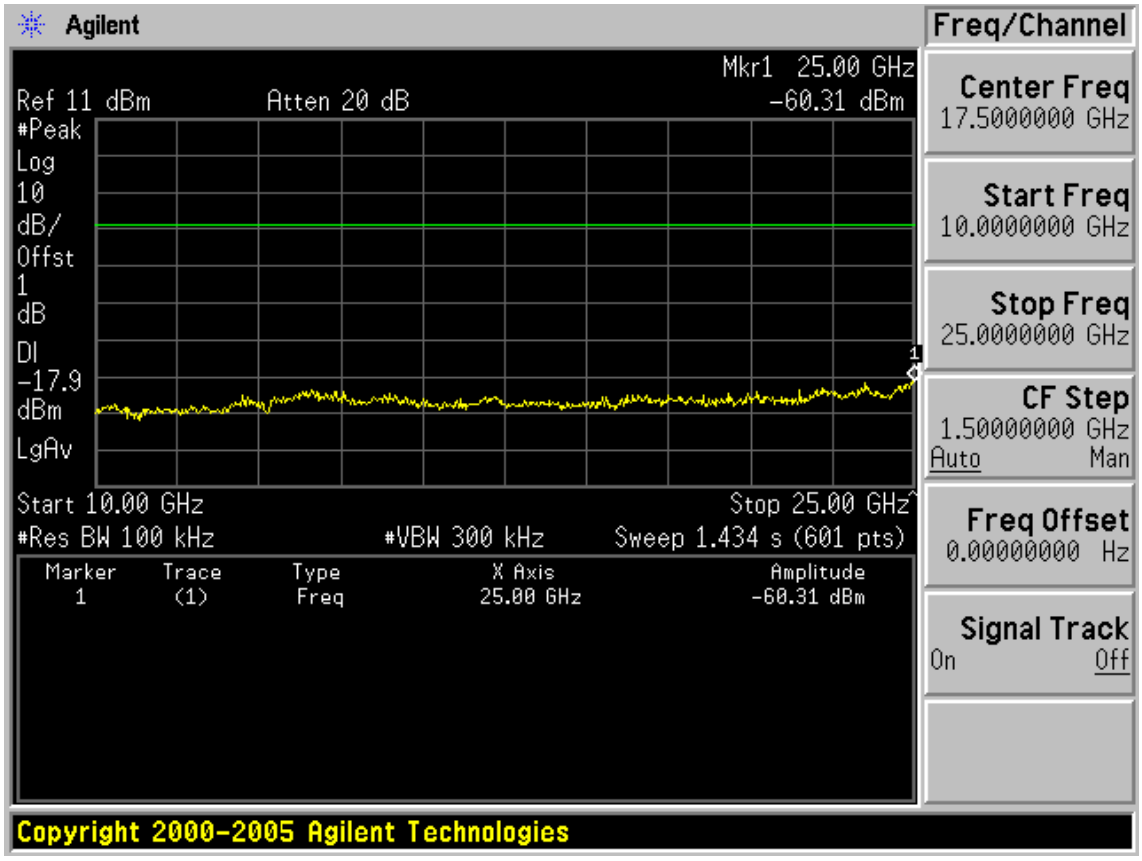


Test Frequency:2480MHz



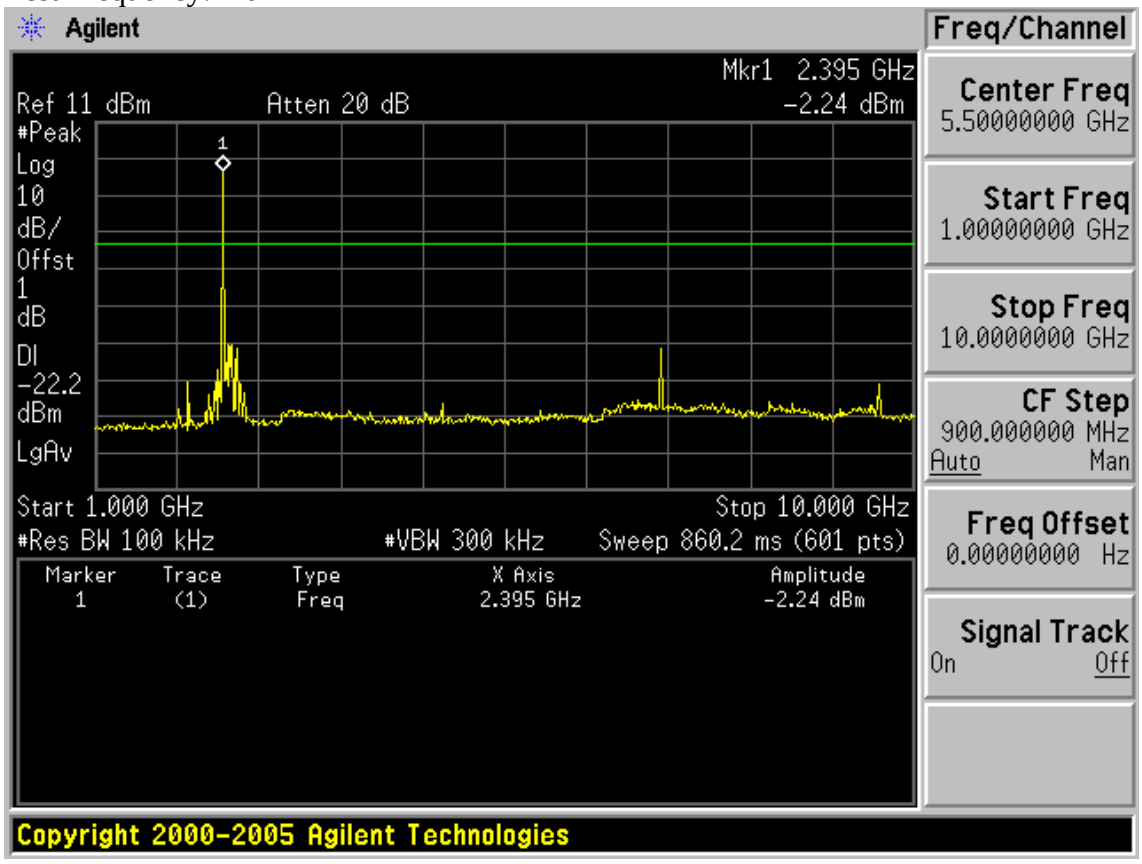

Agilent
Freq/Channel
Mkr1 2.485 GHz
Ref 11 dBm
Atten 20 dB
2.13 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-17.9
dBm
LgAv
Center Freq
5.50000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
10.0000000 GHz
CF Step
900.000000 MHz
Auto
Man
Start 1.000 GHz
Stop 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 860.2 ms (601 pts)
Freq Offset
0.00000000 Hz
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.485 GHz 2.13 dBm
Signal Track
On
Off
Copyright 2000-2005 Agilent Technologies

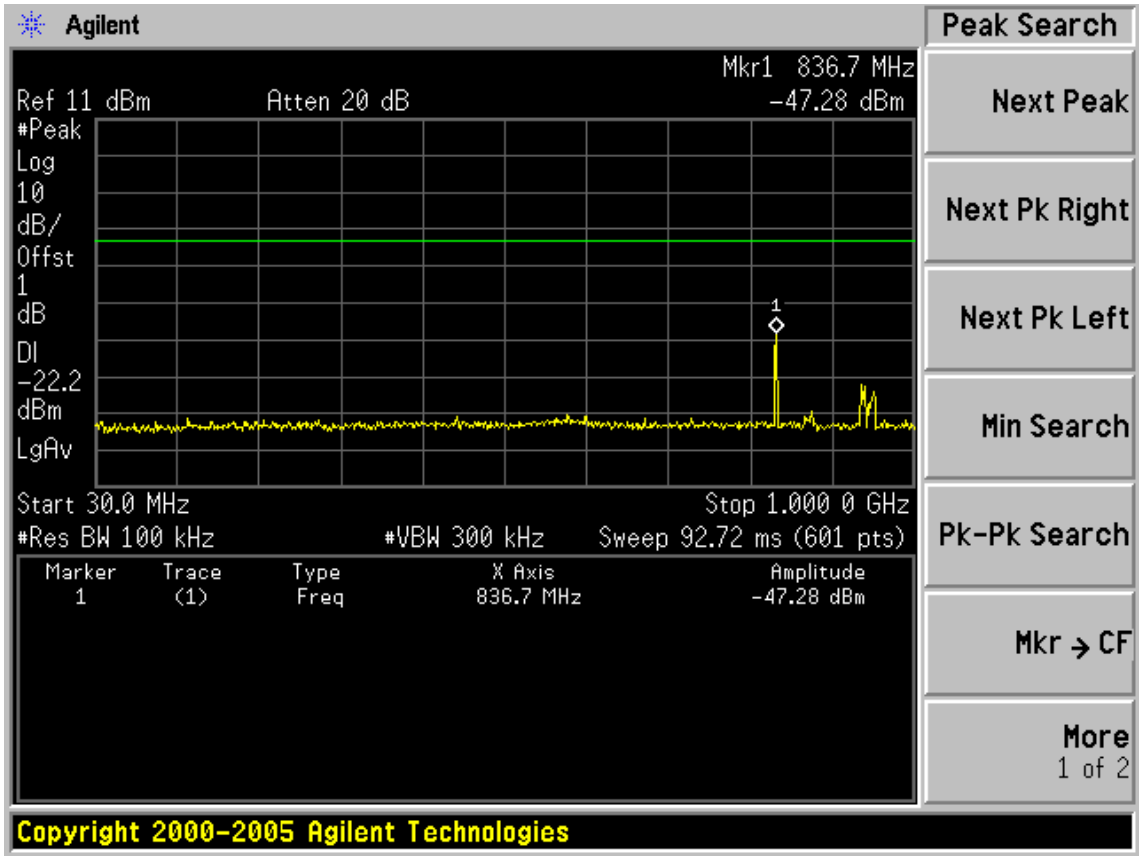

Agilent
Peak Search
Mkr1 836.7 MHz
Ref 11 dBm
Atten 20 dB
-49.56 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-17.9
dBm
LgAv
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 30.0 MHz
Stop 1.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 92.72 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 836.7 MHz -49.56 dBm
Copyright 2000-2005 Agilent Technologies

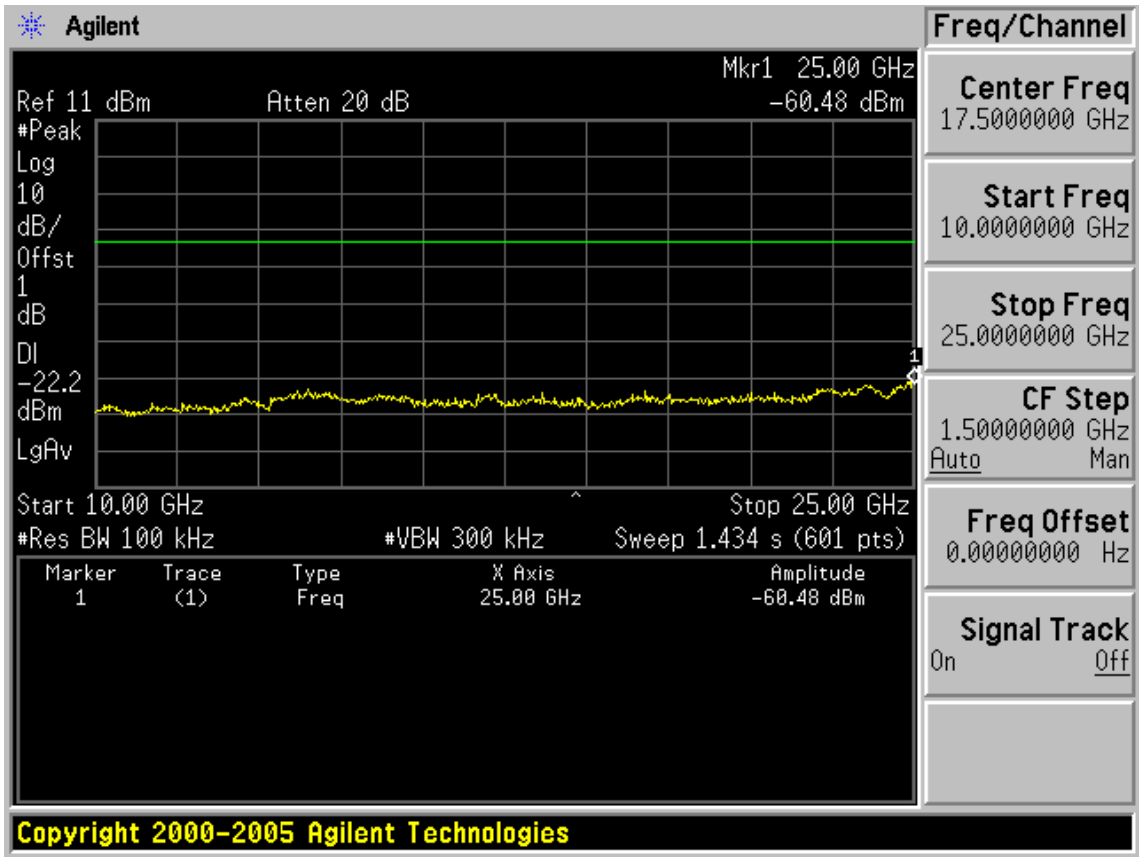


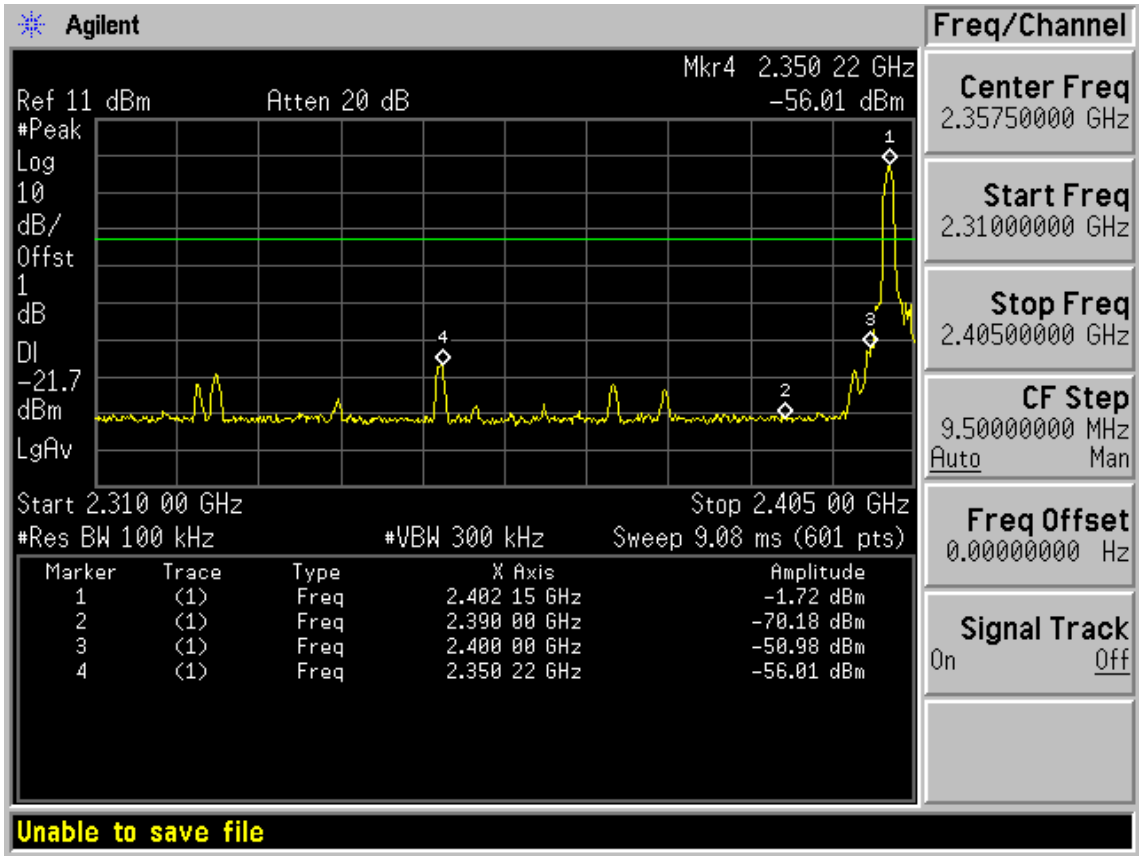
8-DPSK

Test Frequency:2402MHz

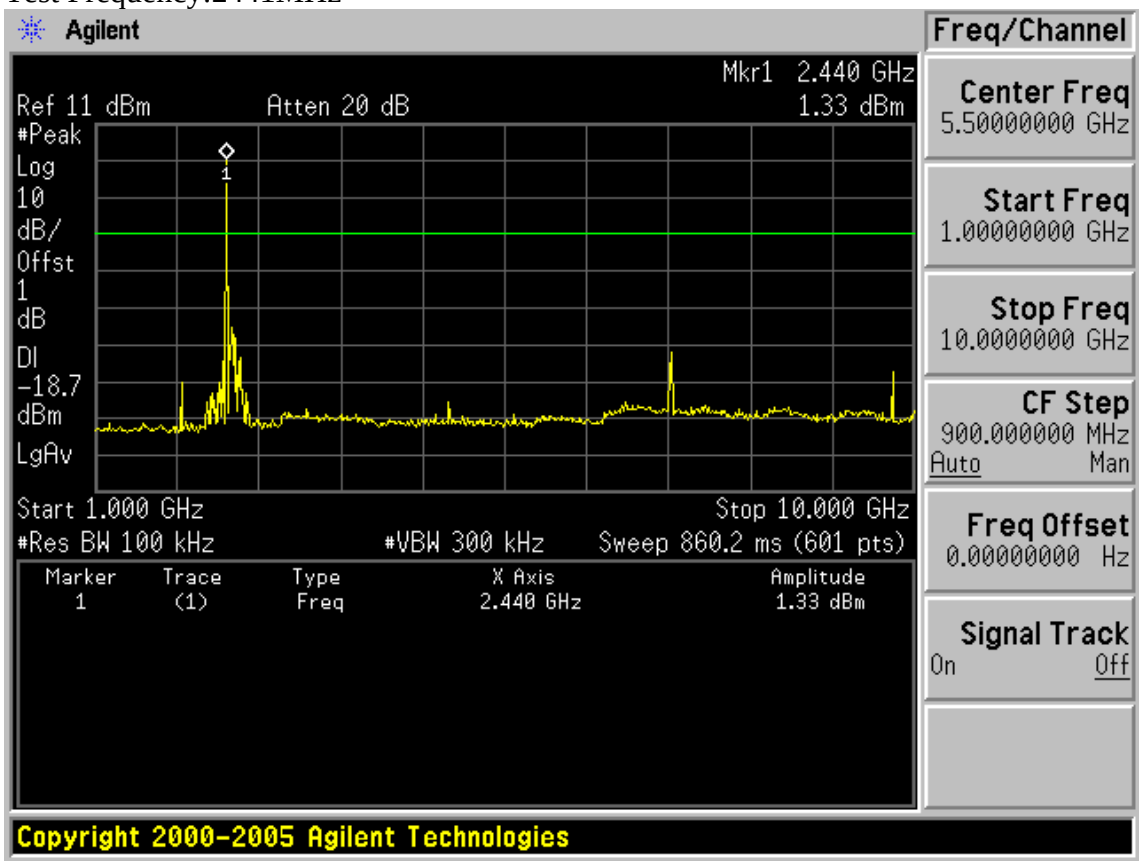


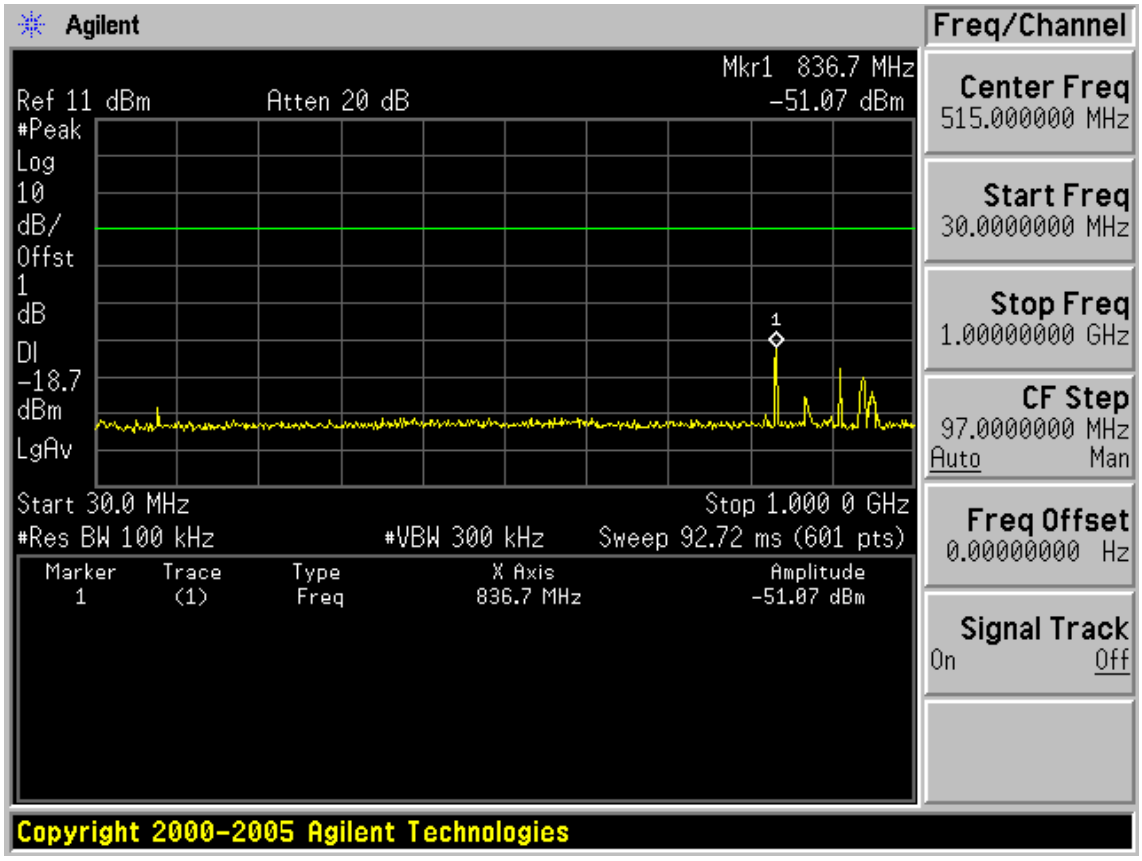

Agilent
Peak Search
Mkr1 836.7 MHz
Ref 11 dBm
Atten 20 dB
-47.28 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-22.2
dBm
LgAv
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 30.0 MHz
Stop 1.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 92.72 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 836.7 MHz -47.28 dBm
Copyright 2000-2005 Agilent Technologies

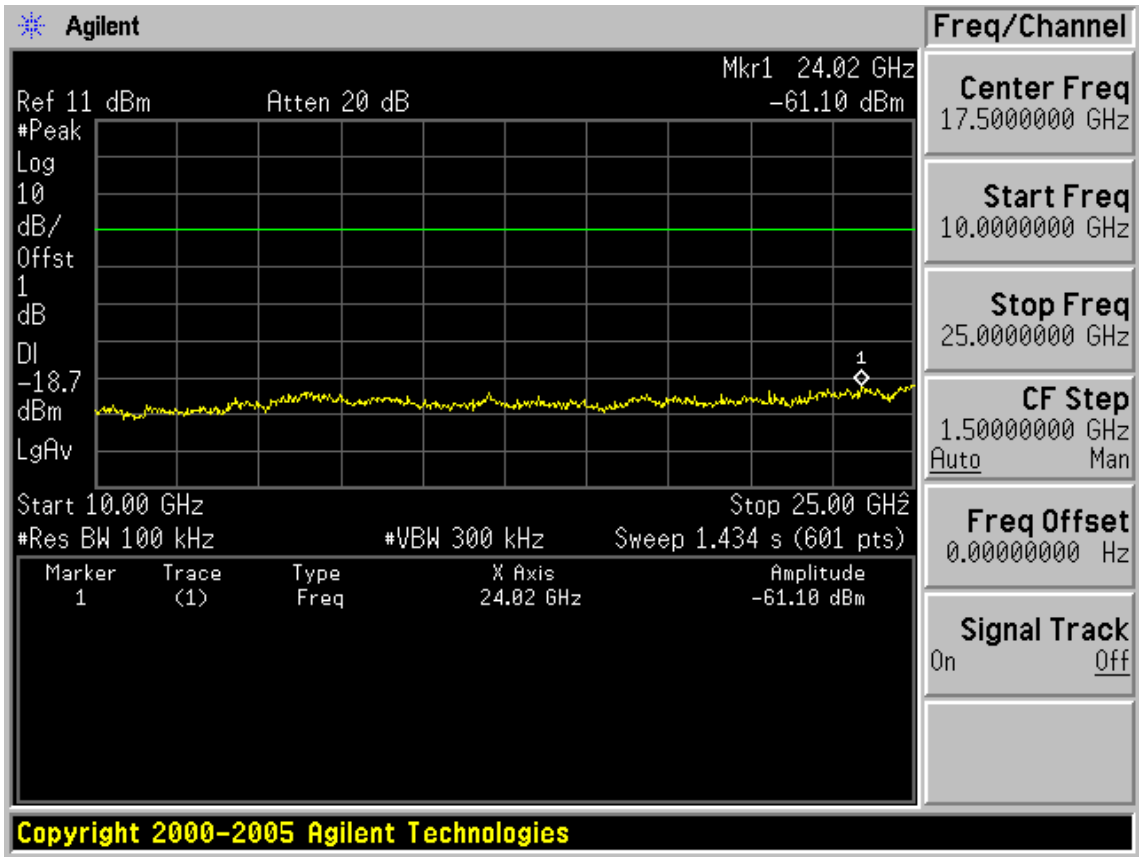

Agilent
Freq/Channel
Mkr1 25.00 GHz
Ref 11 dBm
Atten 20 dB
-60.48 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-22.2
dBm
LgAv
Center Freq
17.5000000 GHz
Start Freq
10.0000000 GHz
Stop Freq
25.0000000 GHz
CF Step
1.50000000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Start 10.00 GHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.434 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 25.00 GHz -60.48 dBm
Copyright 2000-2005 Agilent Technologies



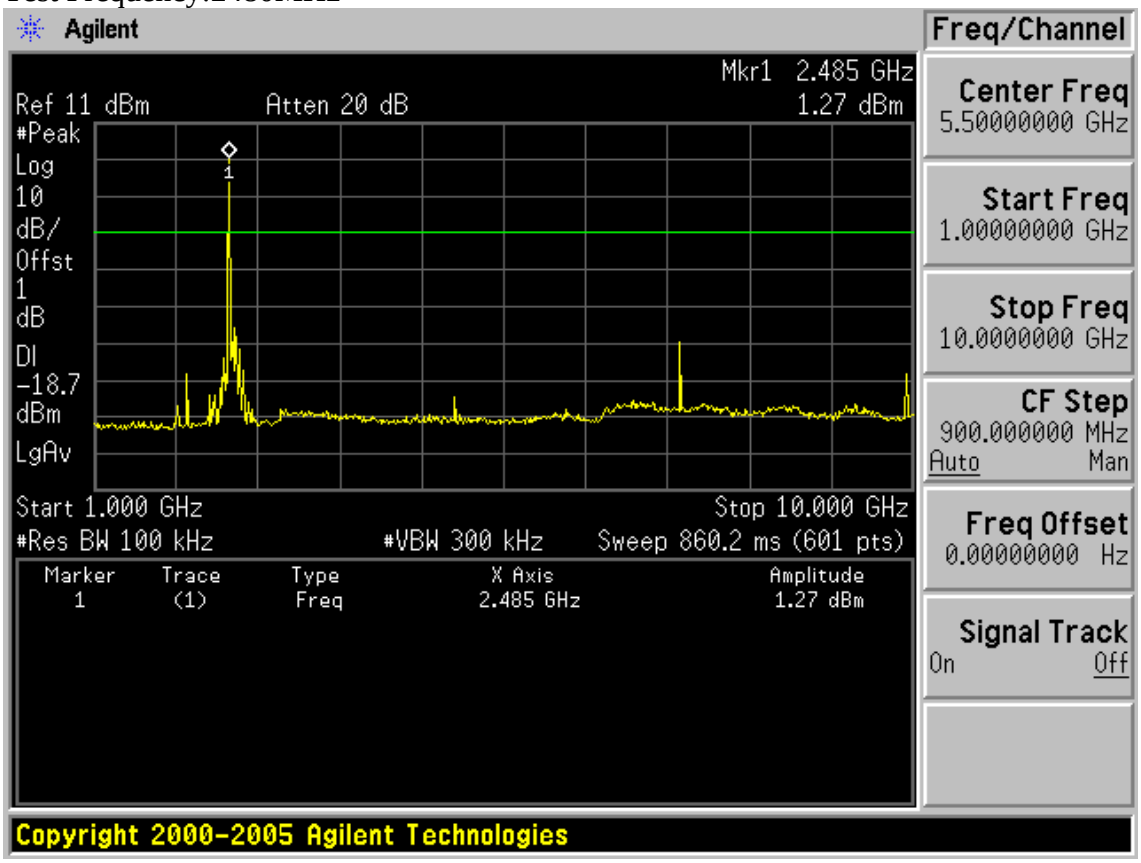
Test Frequency:2441MHz

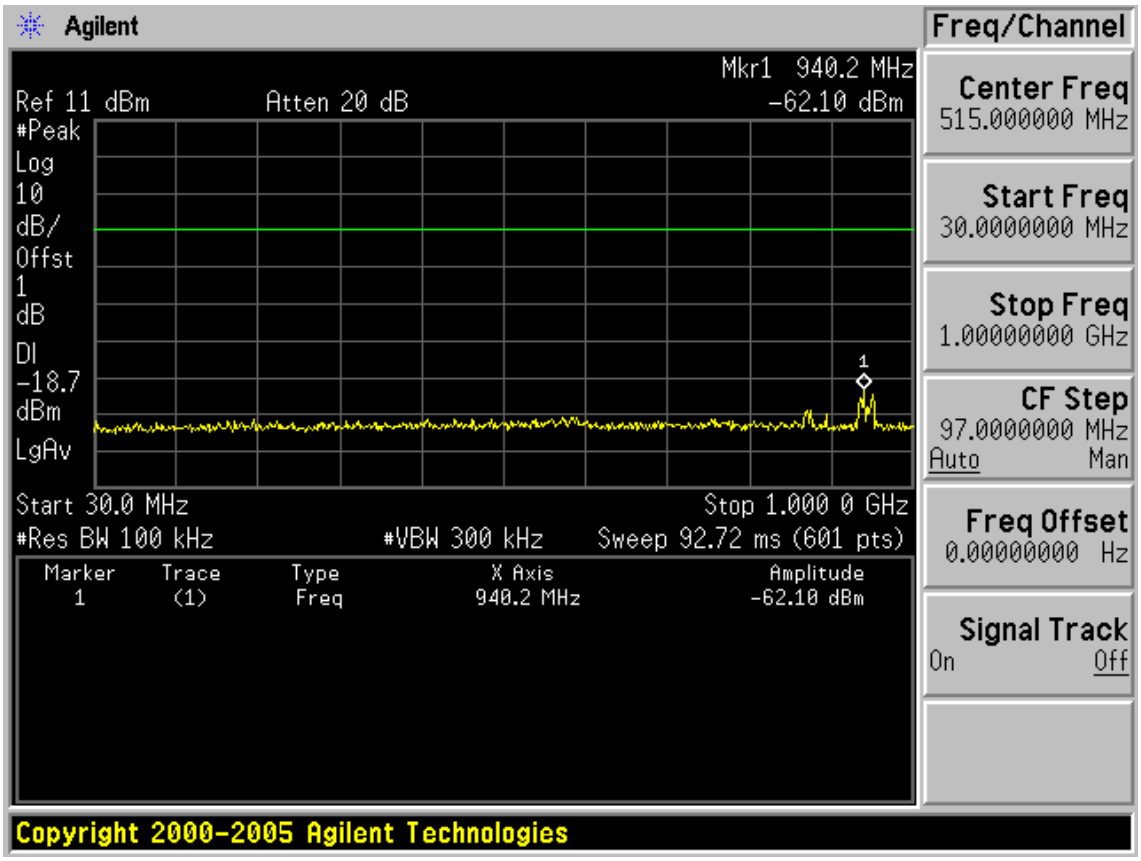


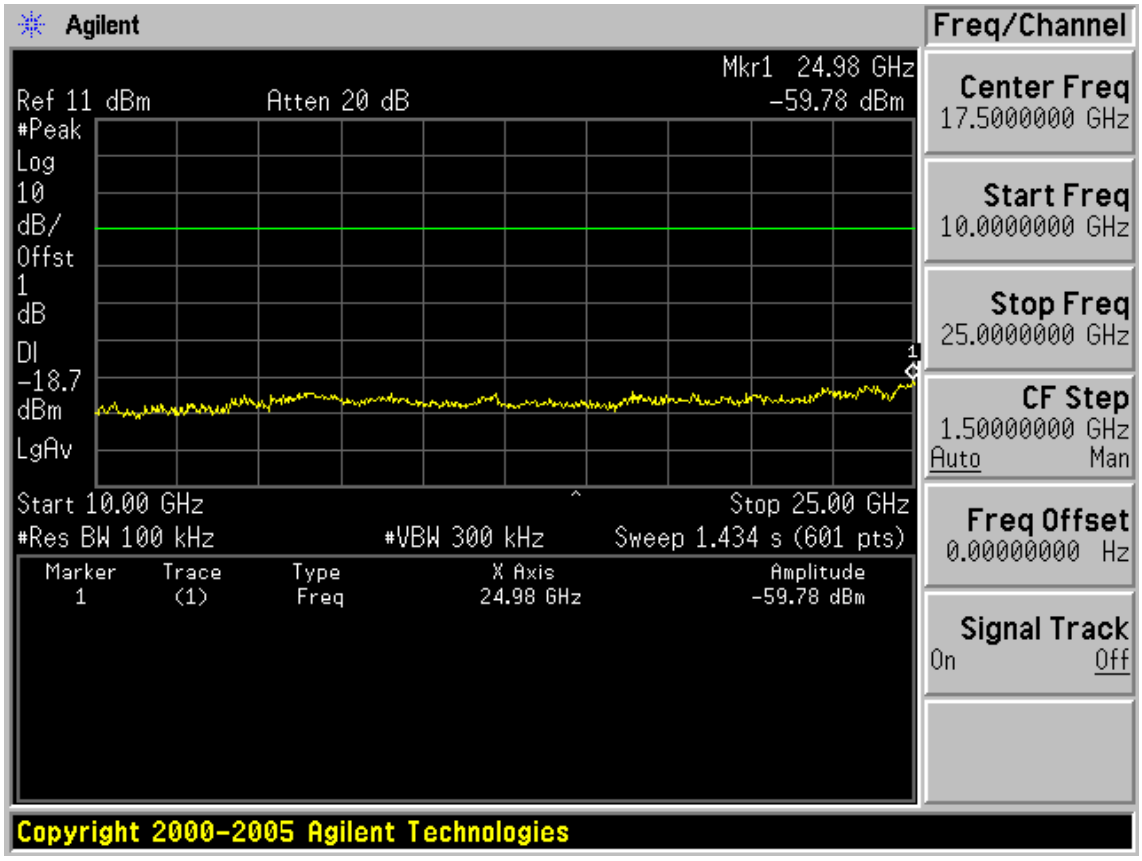

Agilent
Freq/Channel
Mkr1 836.7 MHz
Ref 11 dBm
Atten 20 dB
-51.07 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-18.7
dBm
LgAv
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto
Man
Start 30.0 MHz
Stop 1.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 92.72 ms (601 pts)
Freq Offset
0.00000000 Hz
Marker Trace Type X Axis Amplitude
1 (1) Freq 836.7 MHz -51.07 dBm
Signal Track
On
Off
Copyright 2000-2005 Agilent Technologies

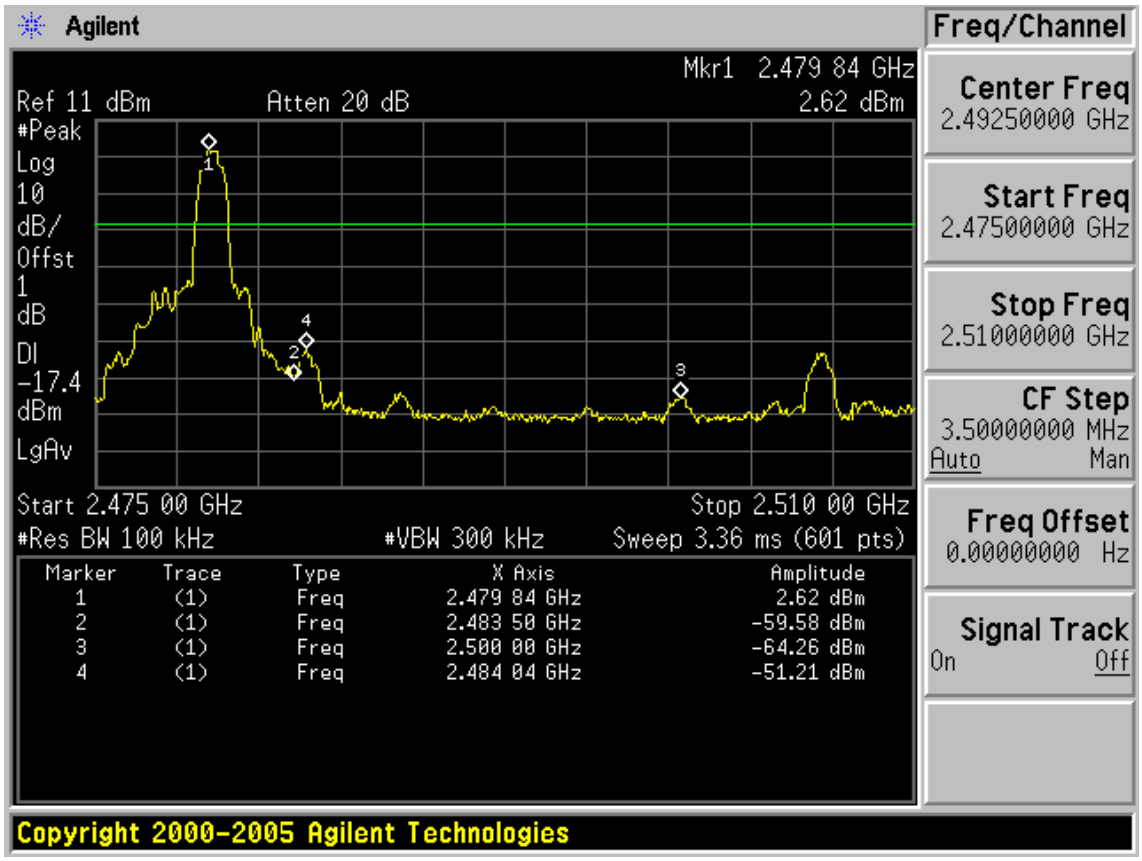

Agilent
Freq/Channel
Mkr1 24.02 GHz
Ref 11 dBm
Atten 20 dB
-61.10 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-18.7
dBm
LgAv
Center Freq
17.5000000 GHz
Start Freq
10.0000000 GHz
Stop Freq
25.0000000 GHz
CF Step
1.50000000 GHz
Auto
Man
Start 10.00 GHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.434 s (601 pts)
Freq Offset
0.00000000 Hz
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.02 GHz -61.10 dBm
Signal Track
On
Off
Copyright 2000-2005 Agilent Technologies

Test Frequency:2480MHz



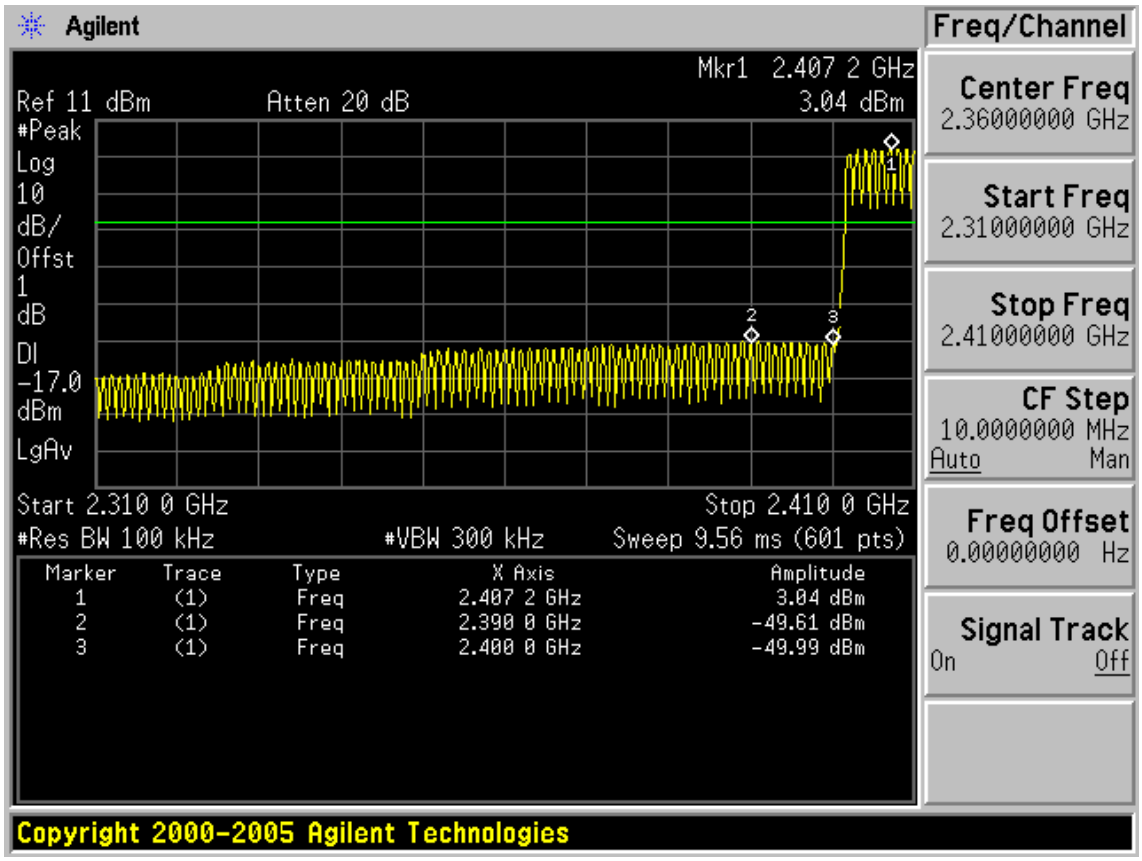


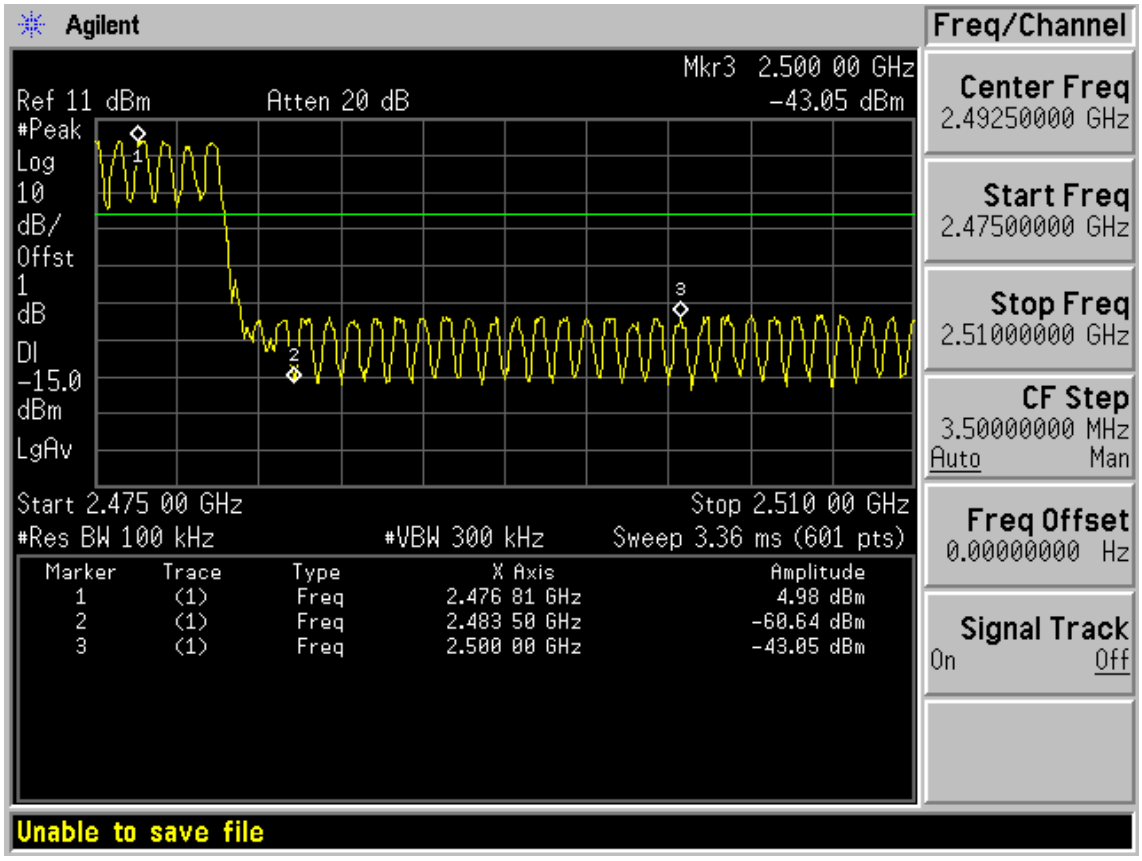

Agilent
Freq/Channel
Mkr1 24.98 GHz
Ref 11 dBm
Atten 20 dB
-59.78 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-18.7
dBm
LgAv
Center Freq
17.5000000 GHz
Start Freq
10.0000000 GHz
Stop Freq
25.0000000 GHz
CF Step
1.50000000 GHz
Auto Man
Start 10.00 GHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.434 s (601 pts)
Freq Offset
0.00000000 Hz
Signal Track
On Off
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.98 GHz -59.78 dBm
Copyright 2000-2005 Agilent Technologies


Agilent
Freq/Channel
Mkr1 2.479 84 GHz
Ref 11 dBm
Atten 20 dB
2.62 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-17.4
dBm
LgAv
Center Freq
2.49250000 GHz
Start Freq
2.47500000 GHz
Stop Freq
2.51000000 GHz
CF Step
3.50000000 MHz
Auto Man
Start 2.475 00 GHz
Stop 2.510 00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 3.36 ms (601 pts)
Freq Offset
0.00000000 Hz
Signal Track
On Off
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.479 84 GHz 2.62 dBm
2 (1) Freq 2.483 50 GHz -59.58 dBm
3 (1) Freq 2.500 00 GHz -64.26 dBm
4 (1) Freq 2.484 04 GHz -51.21 dBm
Copyright 2000-2005 Agilent Technologies

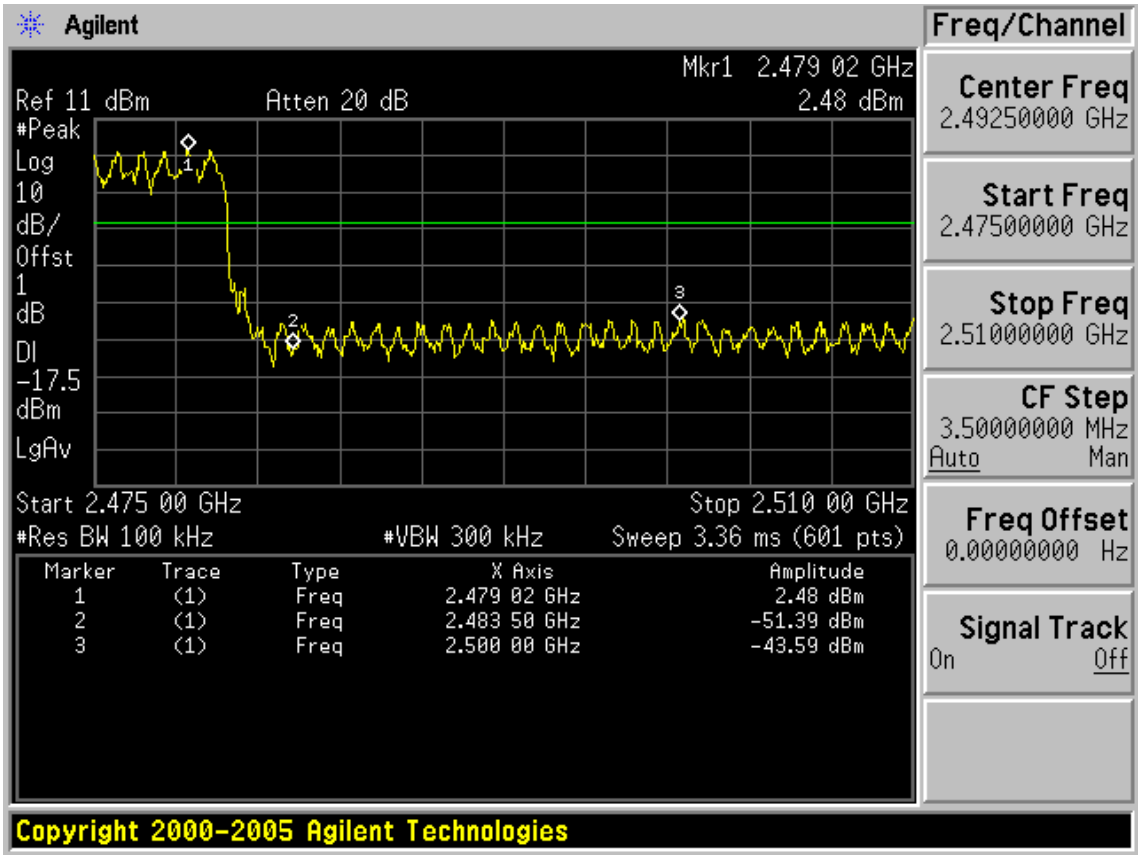
Hopping On

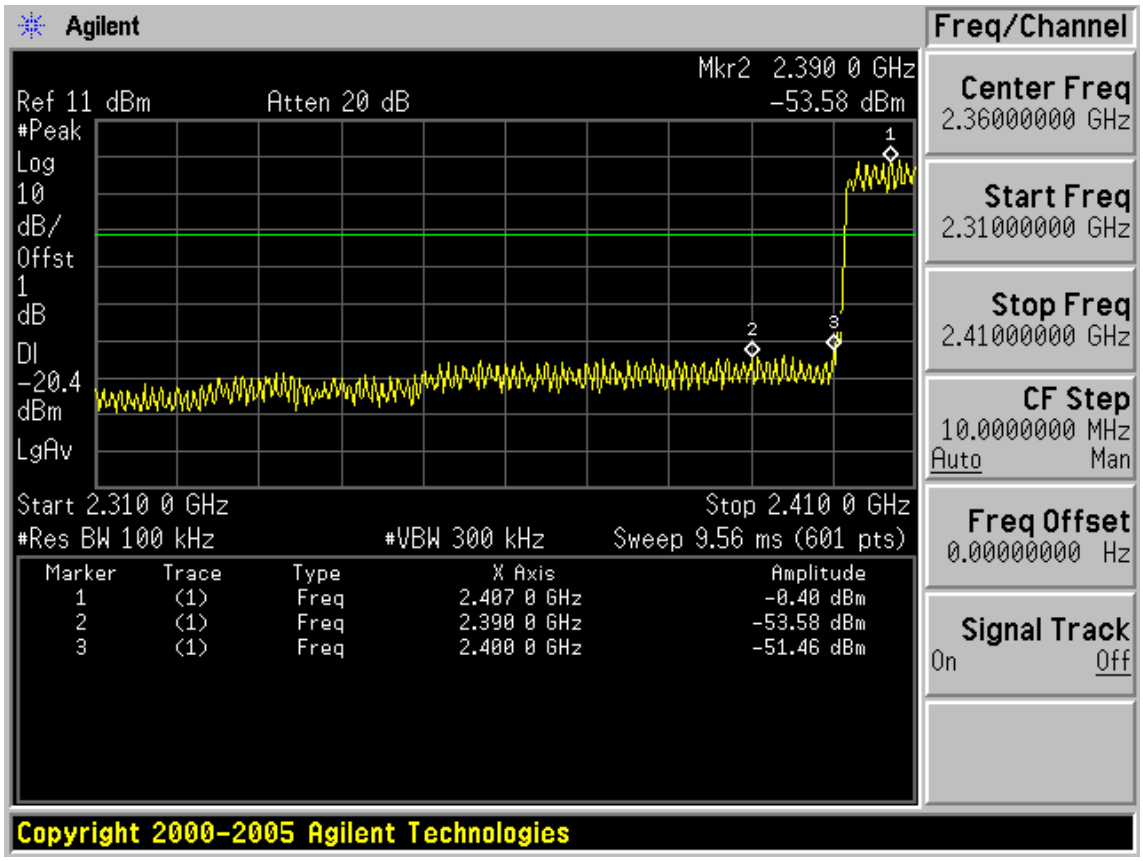
GFSK





8-DPSK


Agilent
Freq/Channel
Mkr1 2.479 02 GHz
Ref 11 dBm
Atten 20 dB
2.48 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-17.5
dBm
LgAv
Center Freq
2.49250000 GHz
Start Freq
2.47500000 GHz
Stop Freq
2.51000000 GHz
CF Step
3.50000000 MHz
Auto
Man
Start 2.475 00 GHz
Stop 2.510 00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 3.36 ms (601 pts)
Freq Offset
0.00000000 Hz
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.479 02 GHz 2.48 dBm
2 (1) Freq 2.483 50 GHz -51.39 dBm
3 (1) Freq 2.500 00 GHz -43.59 dBm
Signal Track
On
Off
Copyright 2000-2005 Agilent Technologies


Agilent
Freq/Channel
Mkr2 2.390 0 GHz
Ref 11 dBm
Atten 20 dB
-53.58 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-20.4
dBm
LgAv
Center Freq
2.36000000 GHz
Start Freq
2.31000000 GHz
Stop Freq
2.41000000 GHz
CF Step
10.0000000 MHz
Auto
Man
Start 2.310 0 GHz
Stop 2.410 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 9.56 ms (601 pts)
Freq Offset
0.00000000 Hz
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.407 0 GHz -0.40 dBm
2 (1) Freq 2.390 0 GHz -53.58 dBm
3 (1) Freq 2.400 0 GHz -51.46 dBm
Signal Track
On
Off
Copyright 2000-2005 Agilent Technologies

6. CARRIER FREQUENCY SEPARATION TEST

6.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year

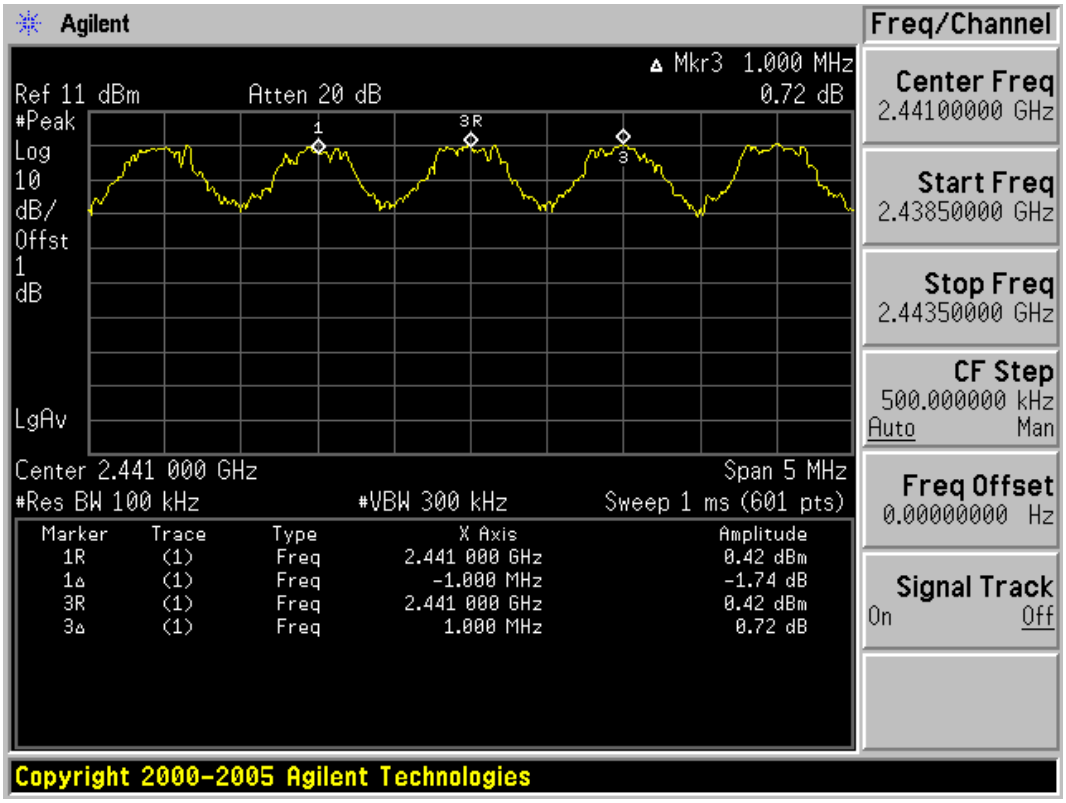
6.2.Limit

Frequency hopping systems shall have hopping channel carrier frequency separated by a minimum of 25kHz or the 20dB 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.

6.3.Test Results.

EUT: EX1-R Bluetooth Headset with NC		
M/N:E1RMOB-21		
Test date: 2013-08-22	Pressure: 101.5±1.0 kpa	Humidity: 52.2±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature：22.5±0.6℃

Test Mode	Channel separation	Conclusion
8-DPSK	1.0MHz	PASS
GFSK	1.0MHz	PASS



7. 20 DB BANDWIDTH TEST

7.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year

7.2.Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

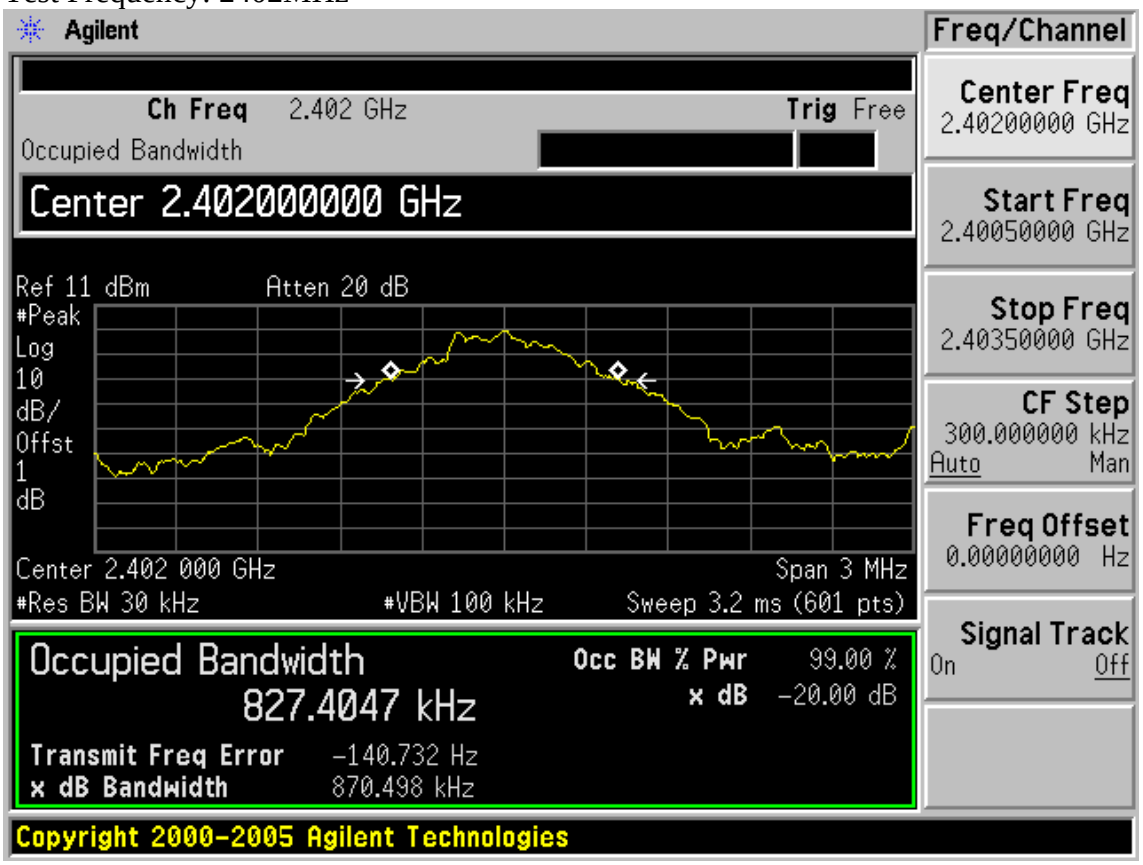
7.3.Test Results

EUT: EX1-R Bluetooth Headset with NC		
M/N:E1RMOB-21		
Test date: 2013-08-22	Pressure: 101.5±1.0 kpa	Humidity: 52.2±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 22.5±0.6℃

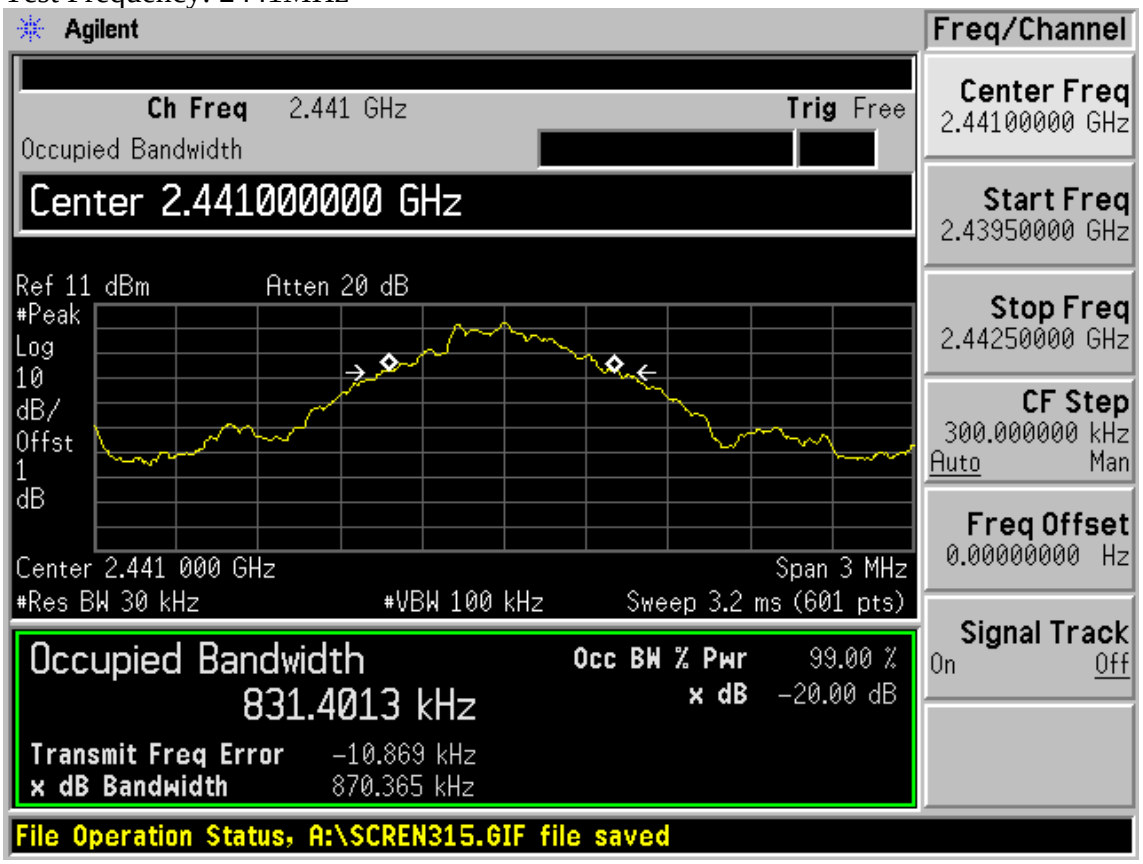
Test Mode	CH (MHz)	20dB bandwidth (KHz)	Limit (KHz)
GFSK	2402	870.498	N/A
	2441	870.365	N/A
	2480	868.739	N/A
8-DPSK	2402	1213	N/A
	2441	1210	N/A
	2480	1199	N/A
Conclusion：PASS			

GFSK

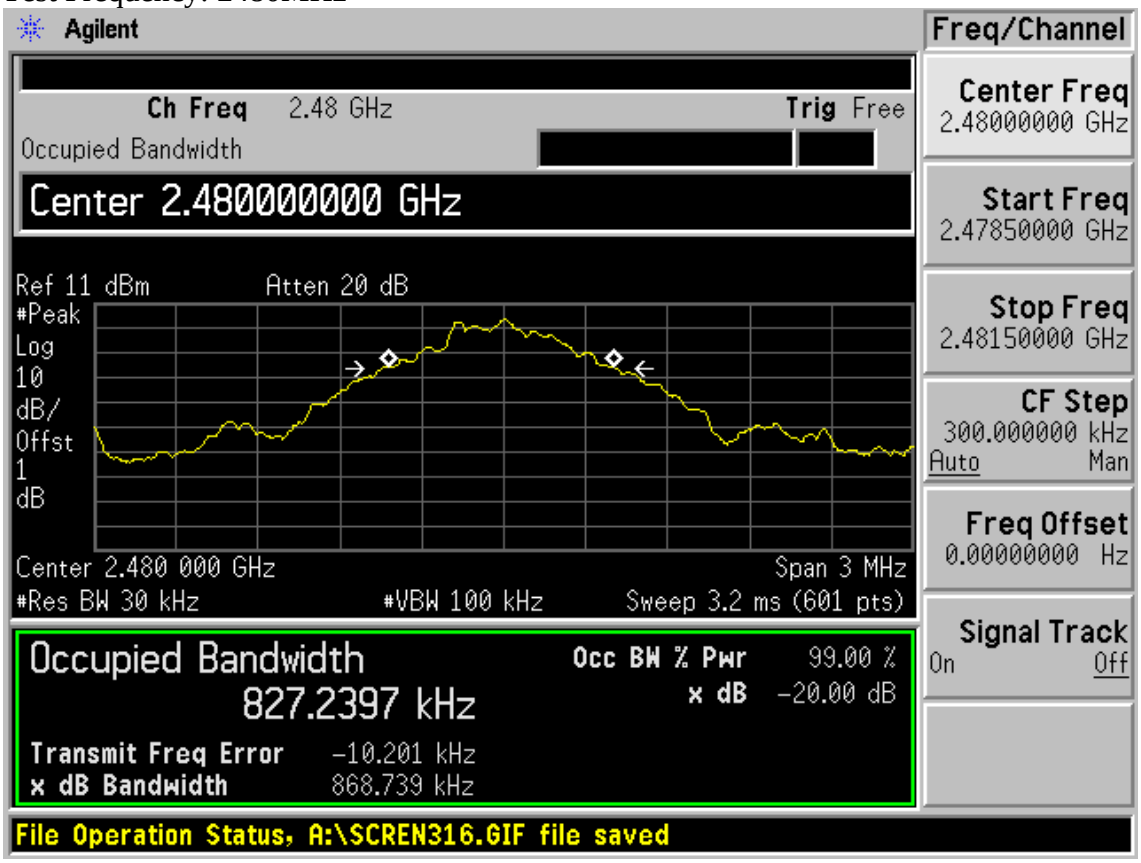
Test Frequency: 2402MHz



Test Frequency: 2441MHz

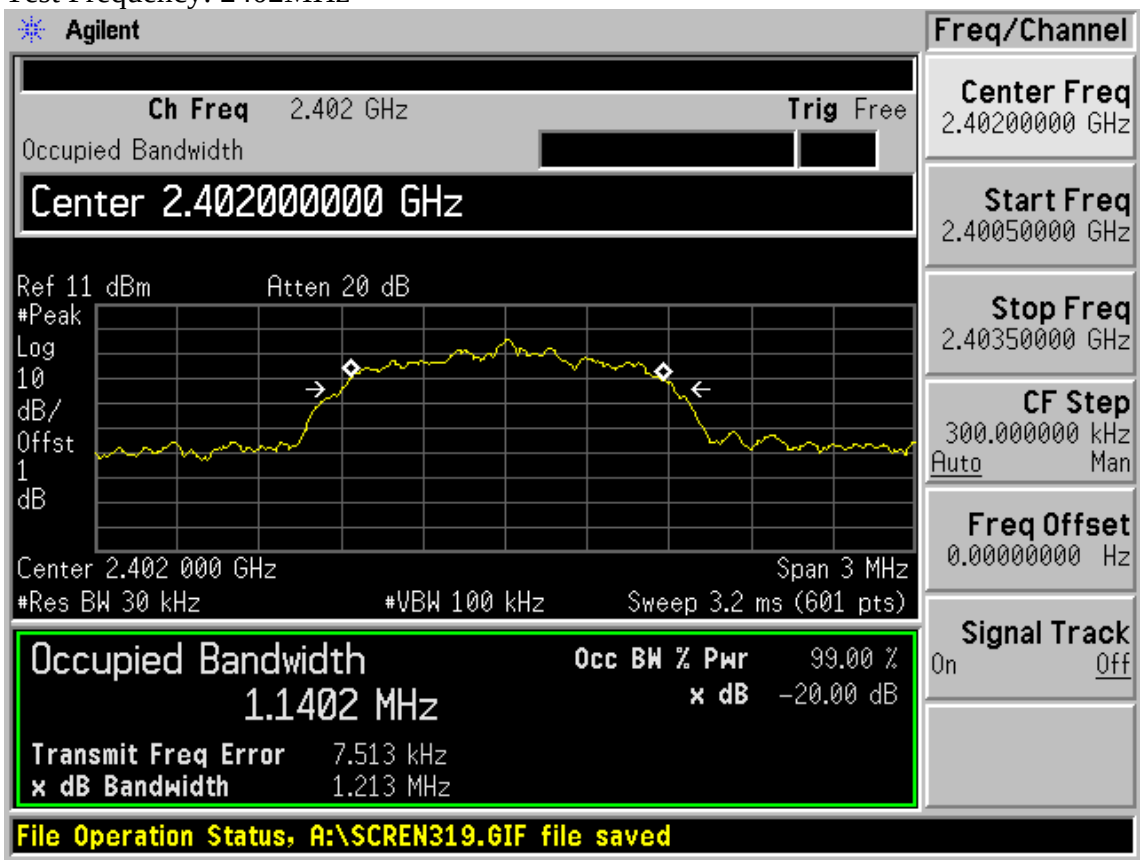


Test Frequency: 2480MHz

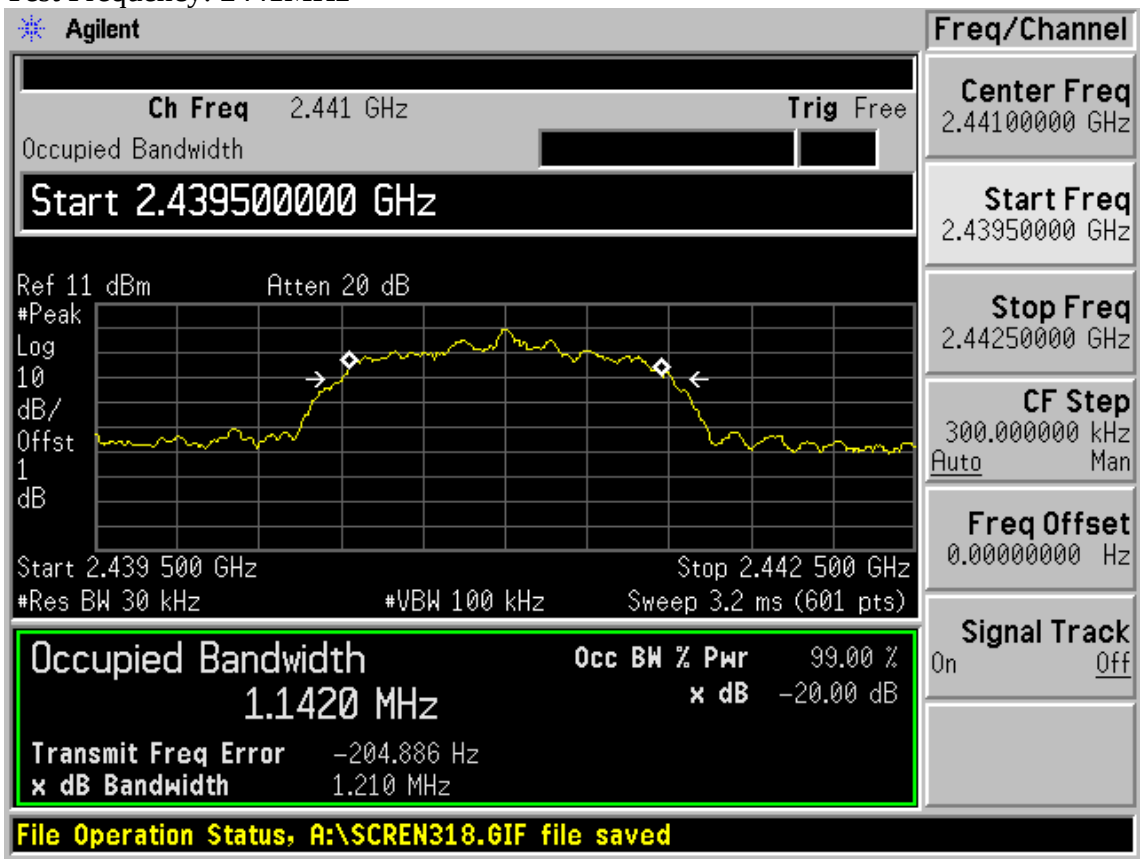


8-DPSK

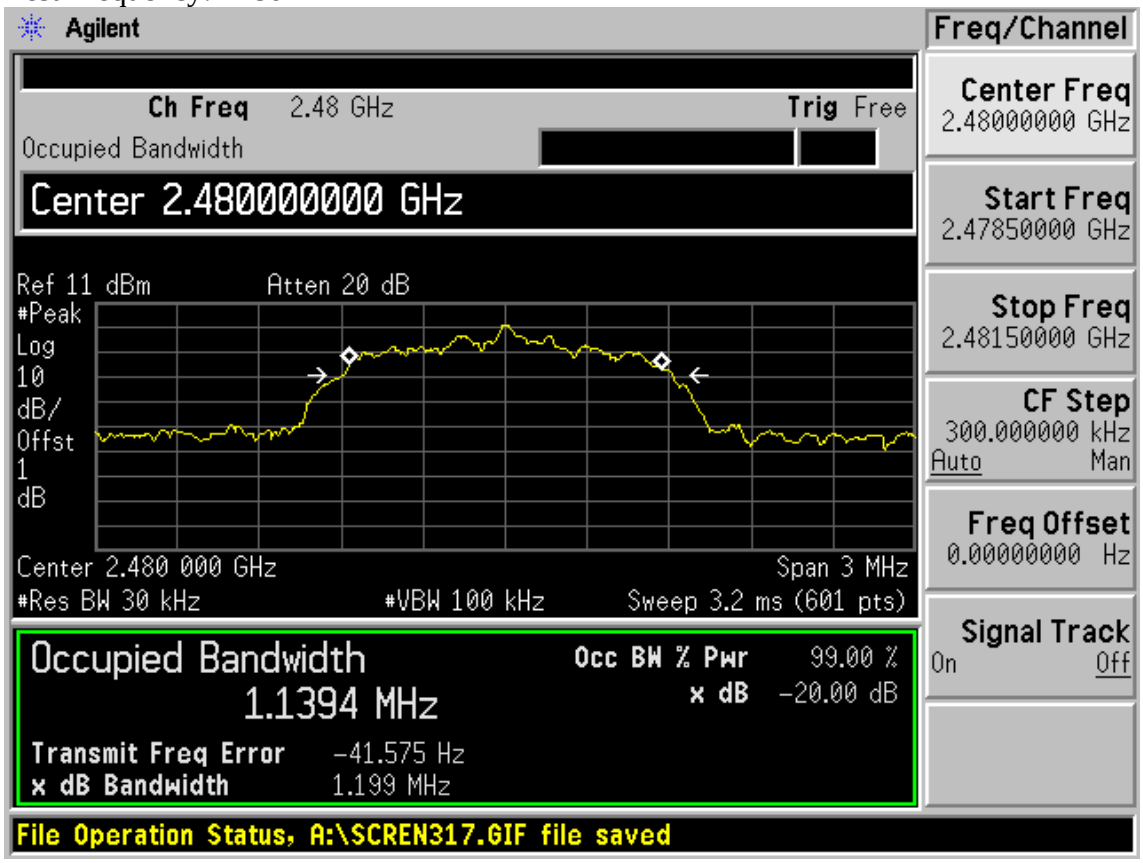
Test Frequency: 2402MHz



Test Frequency: 2441MHz



Test Frequency: 2480MHz



8. NUMBER OF HOPPING FREQUENCY TEST

8.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year

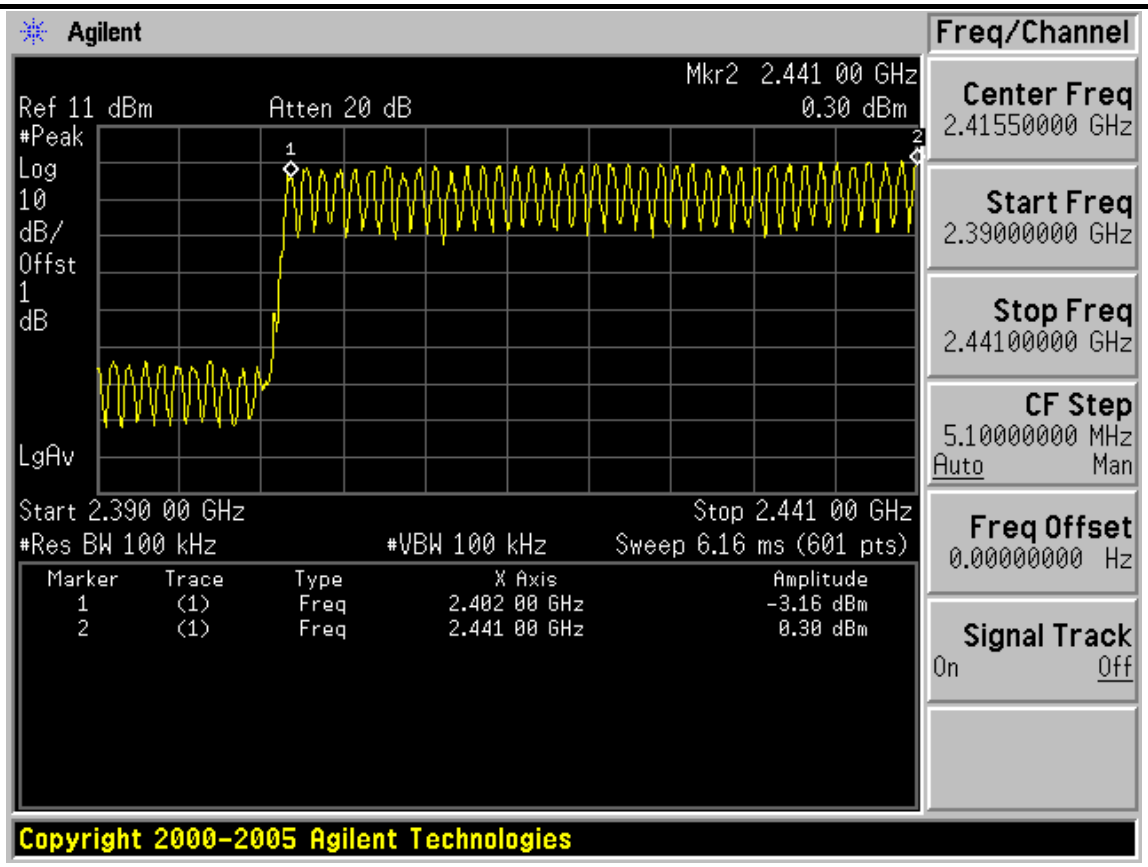
8.2.Limit

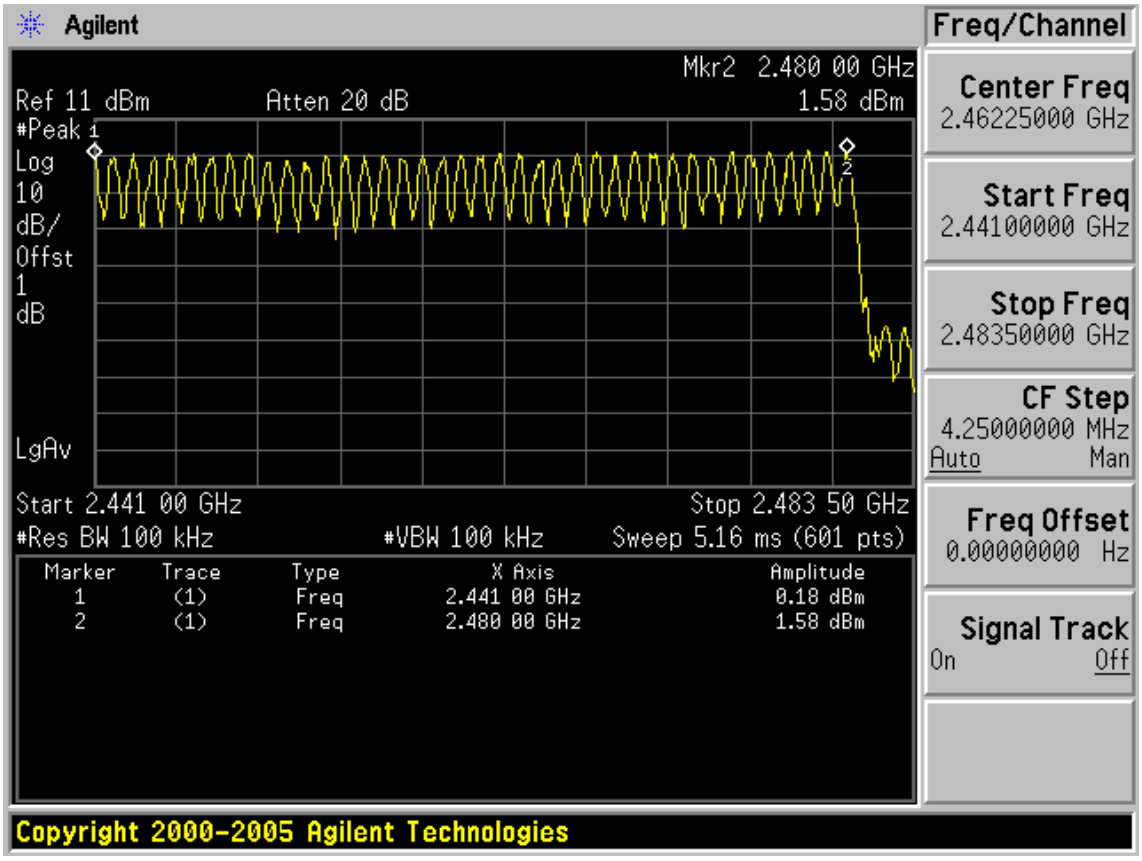
Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

8.3.Test Results

EUT: EX1-R Bluetooth Headset with NC		
M/N:E1RMOB-21		
Test date: 2013-08-22	Pressure: 101.5±1.0 kpa	Humidity: 52.2±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 22.5±0.6℃

Test Mode	Number of channel	Limit	Conclusion
8-DPSK	79	>=15	PASS
GFSK	79	>=15	PASS


Agilent
Freq/Channel
Mkr2 2.441 00 GHz
Ref 11 dBm
Atten 20 dB
0.30 dBm
#Peak
Log
10
dB/
Offst
1
dB
LgAv
Start 2.390 00 GHz
Stop 2.441 00 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 6.16 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.402 00 GHz -3.16 dBm
2 (1) Freq 2.441 00 GHz 0.30 dBm
Center Freq
2.41550000 GHz
Start Freq
2.39000000 GHz
Stop Freq
2.44100000 GHz
CF Step
5.10000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Copyright 2000-2005 Agilent Technologies


Agilent
Freq/Channel
Mkr2 2.480 00 GHz
Ref 11 dBm
Atten 20 dB
1.58 dBm
#Peak
Log
10
dB/
Offst
1
dB
LgAv
Start 2.441 00 GHz
Stop 2.483 50 GHz
#Res BW 100 kHz
#VBW 100 kHz
Sweep 5.16 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.441 00 GHz 0.18 dBm
2 (1) Freq 2.480 00 GHz 1.58 dBm
Center Freq
2.46225000 GHz
Start Freq
2.44100000 GHz
Stop Freq
2.48350000 GHz
CF Step
4.25000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Copyright 2000-2005 Agilent Technologies

9. DWELL TIME

9.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year

9.2.Limit

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.

9.3.Test Results

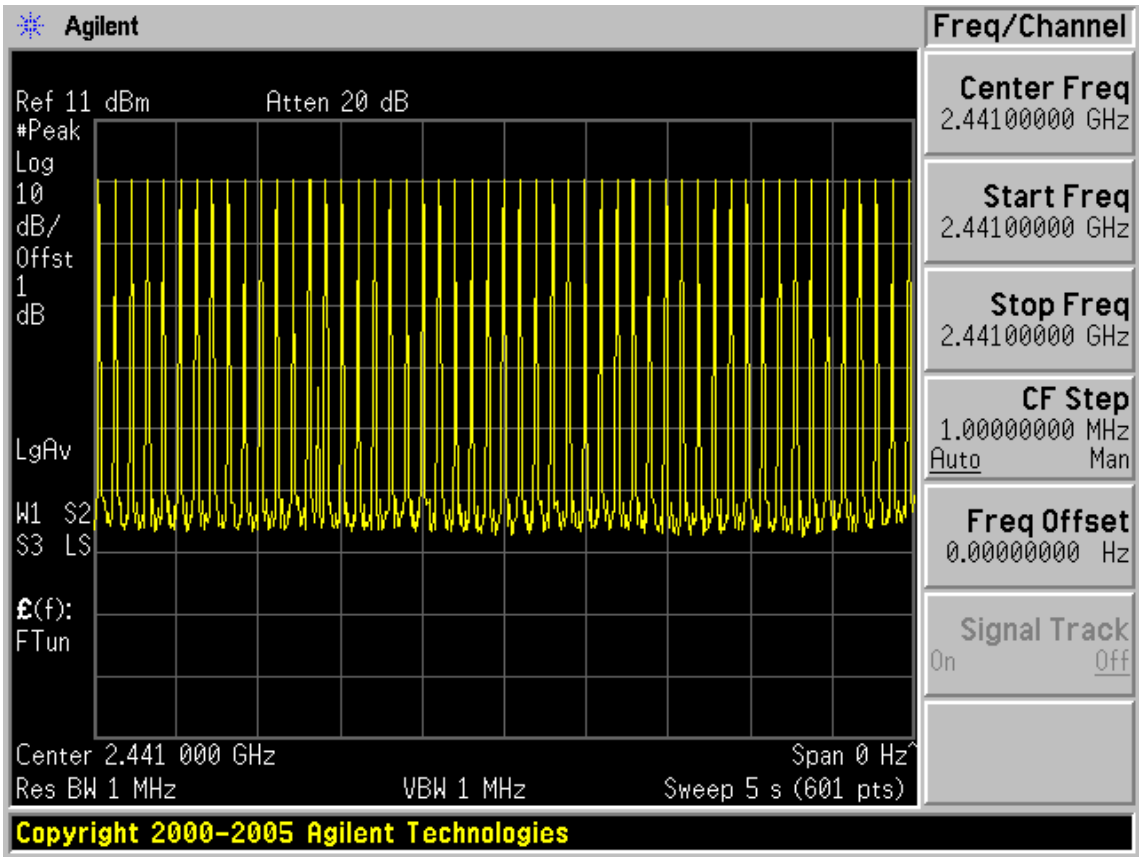
EUT: EX1-R Bluetooth Headset with NC		
M/N:E1RMOB-21		
Test date: 2013-08-22	Pressure: 101.5±1.0 kpa	Humidity: 52.2±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 22.5±0.6℃

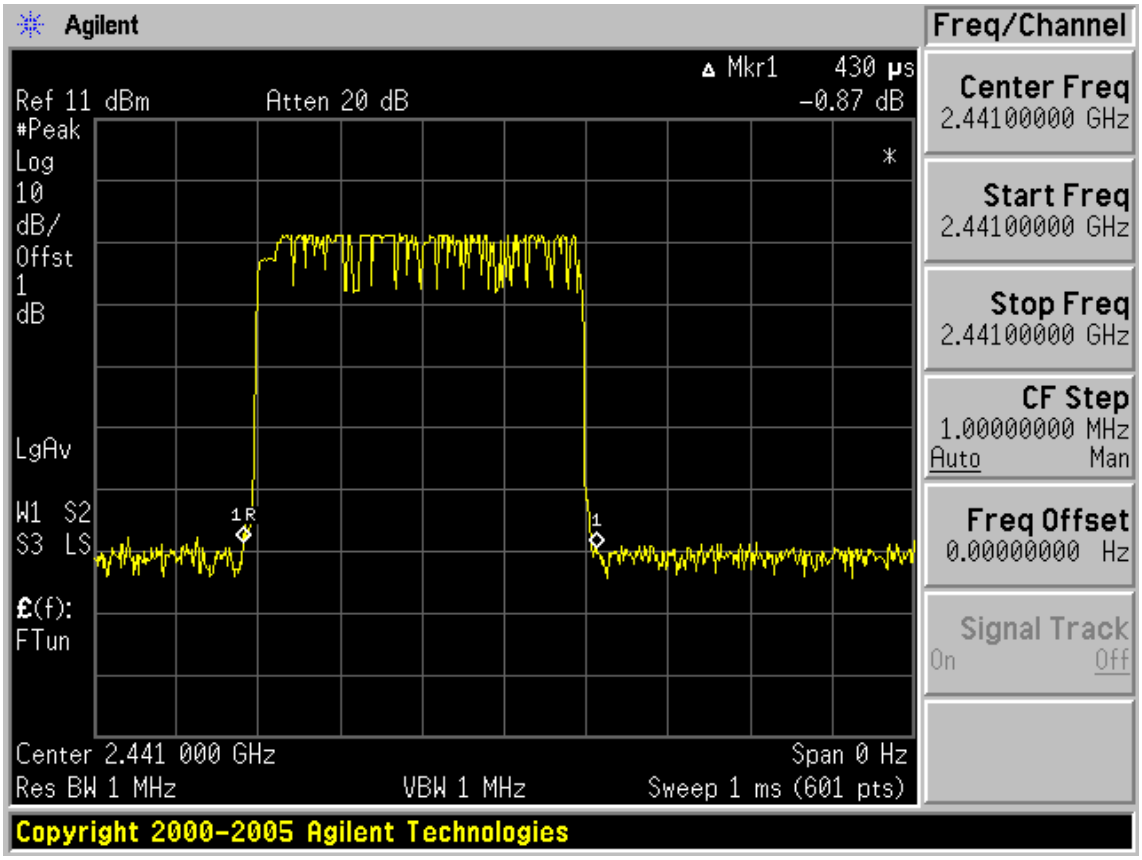
Mode		dwell time	Limit	Conclusion
GFSK	DH1	51hops/5s*0.4*79chanels*0.43ms =138.59ms	<400ms	PASS
	DH3	26hops/5s*0.4*79chanels*1.705ms =280.16ms	<400ms	PASS
	DH5	17hops/5s*0.4*79chanels*2.967ms=318.77ms	<400ms	PASS
8-DPSK	DH1	51hops/5s*0.4*79chanels*0.445ms =143.43ms	<400ms	PASS
	DH3	25hops/5s*0.4*79chanels*1.705ms =269.39ms	<400ms	PASS
	DH5	17hops/5s*0.4*79chanels*2.983ms =320.49ms	<400ms	PASS

Note: All the lower levels were signal from receiver's, and should not considered in here.

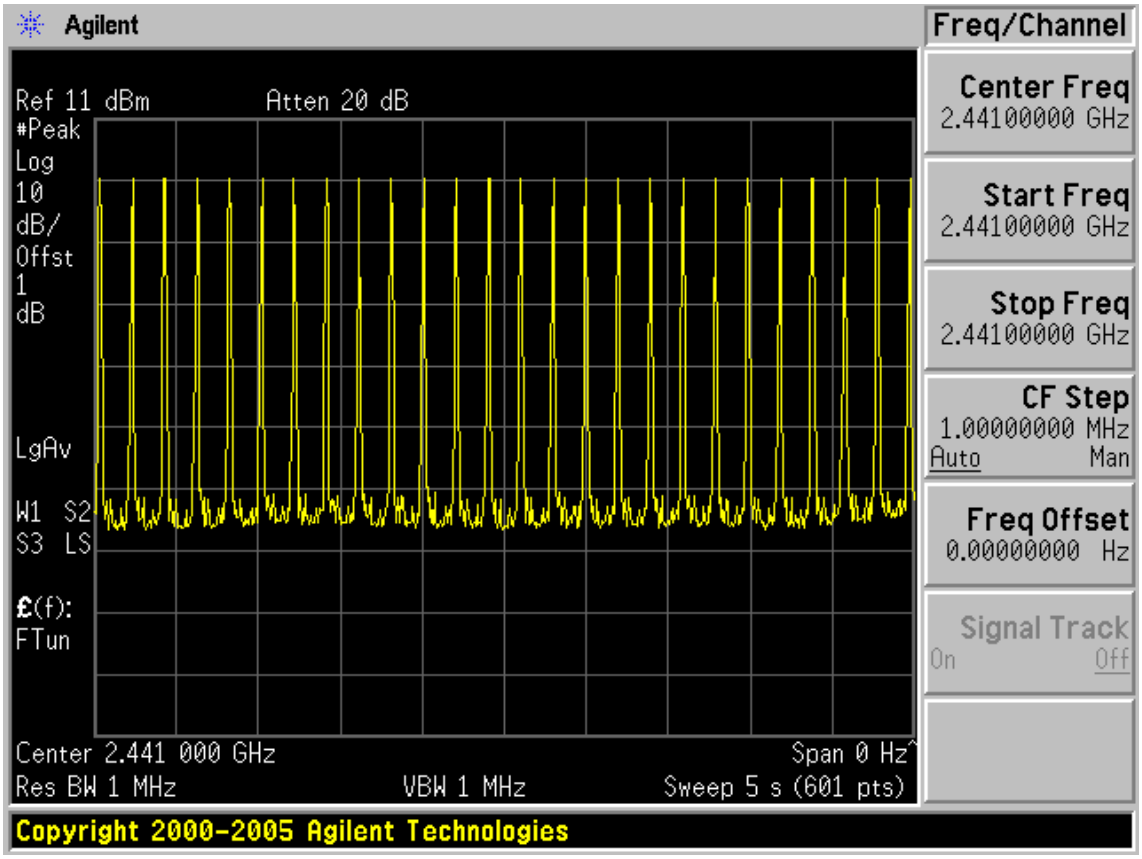
Test Mode: GFSK

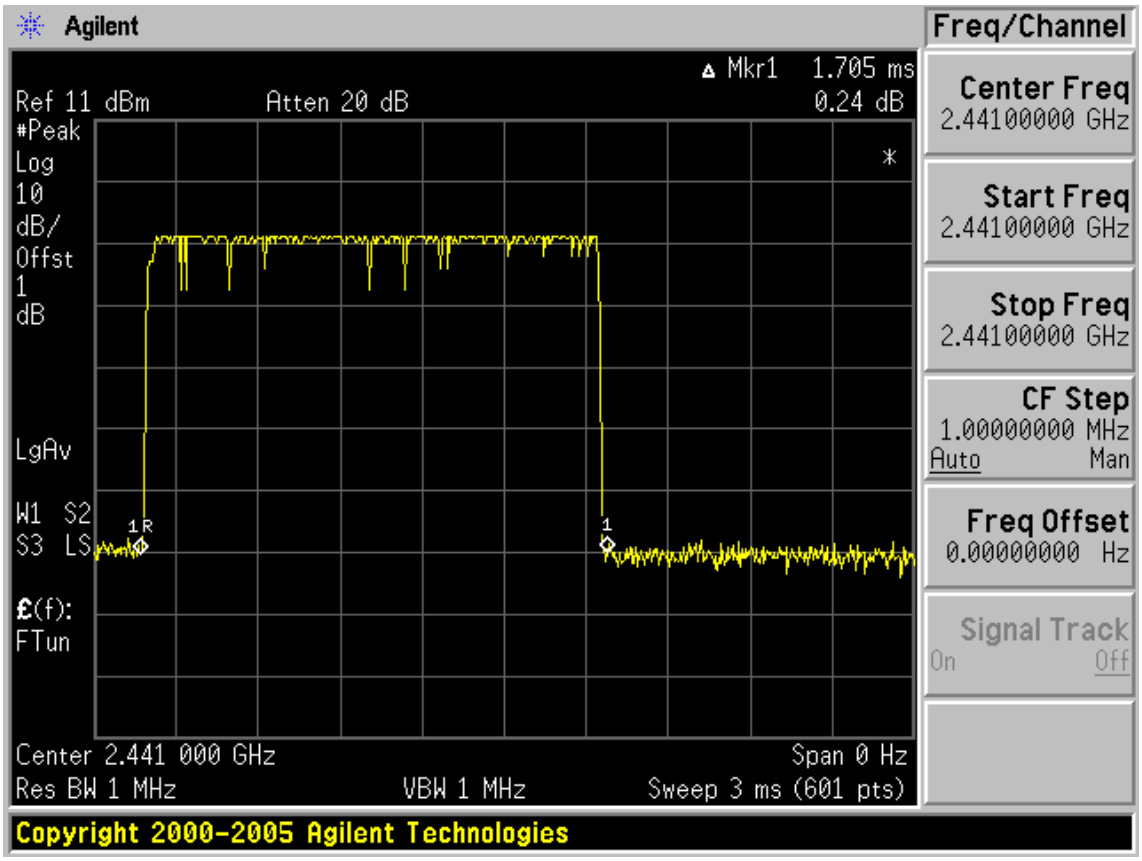
DH 1



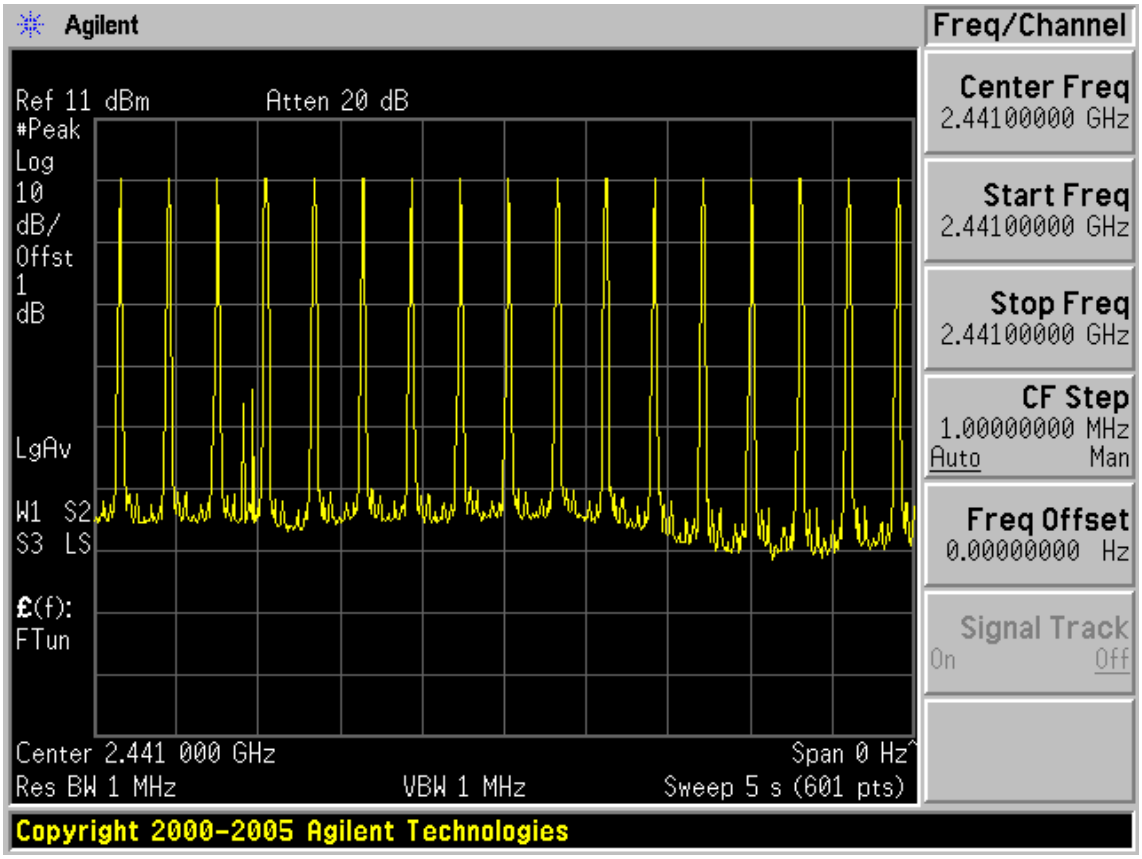


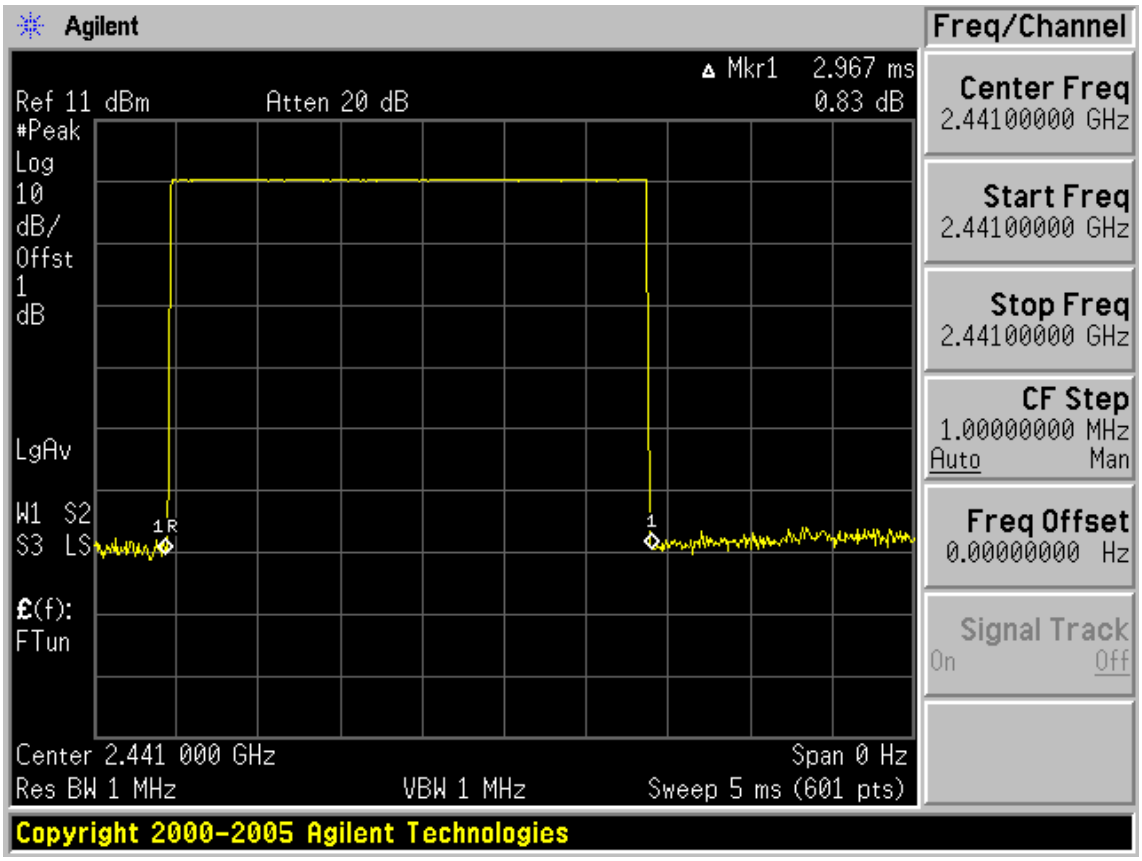
DH 3


Agilent
Freq/Channel
Ref 11 dBm
Atten 20 dB
#Peak
Log
10
dB/
Offst
1
dB
LgAv
W1 S2
S3 LS
£(f):
FTun
Center Freq
2.44100000 GHz
Start Freq
2.44100000 GHz
Stop Freq
2.44100000 GHz
CF Step
1.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 2.441 000 GHz
Span 0 Hz
Res BW 1 MHz
VBW 1 MHz
Sweep 5 s (601 pts)
Copyright 2000-2005 Agilent Technologies

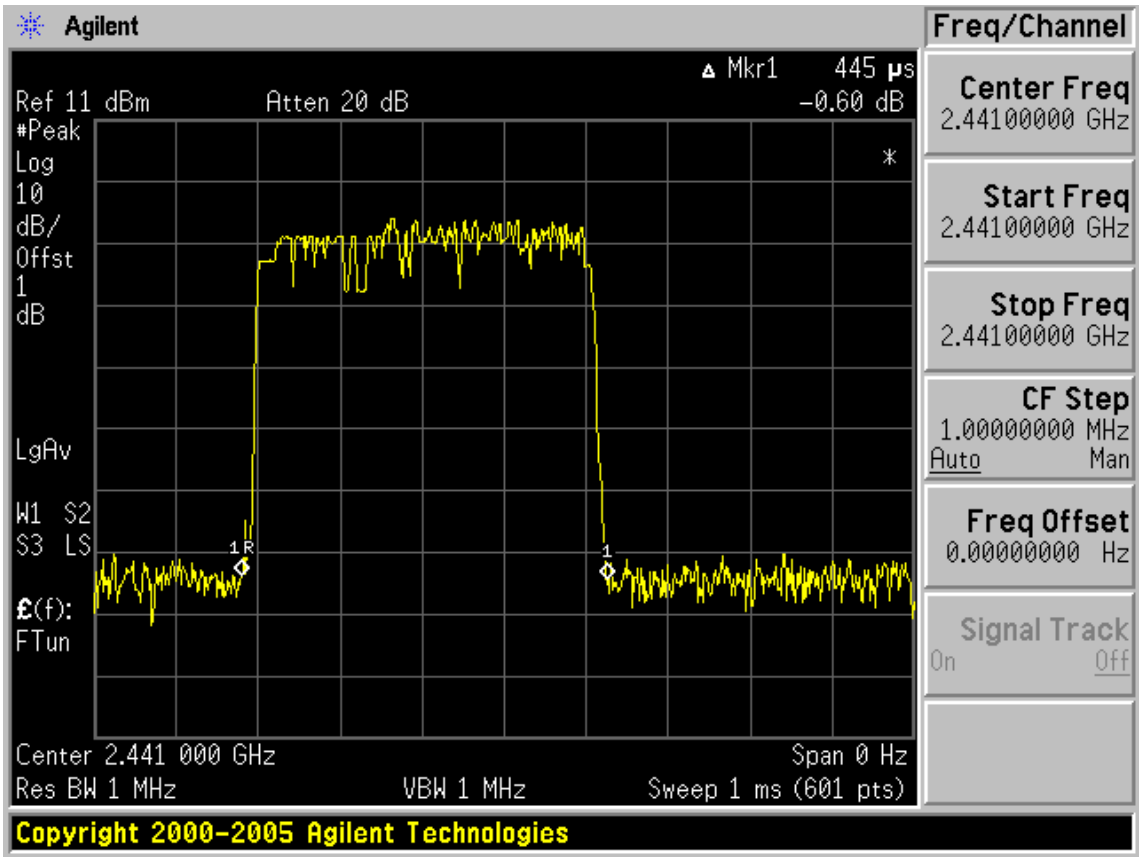

Agilent
Freq/Channel
Mkr1 1.705 ms
0.24 dB
Ref 11 dBm
Atten 20 dB
#Peak
Log
10
dB/
Offst
1
dB
LgAv
W1 S2
S3 LS
£(f):
FTun
Center Freq
2.44100000 GHz
Start Freq
2.44100000 GHz
Stop Freq
2.44100000 GHz
CF Step
1.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 2.441 000 GHz
Span 0 Hz
Res BW 1 MHz
VBW 1 MHz
Sweep 3 ms (601 pts)
Copyright 2000-2005 Agilent Technologies

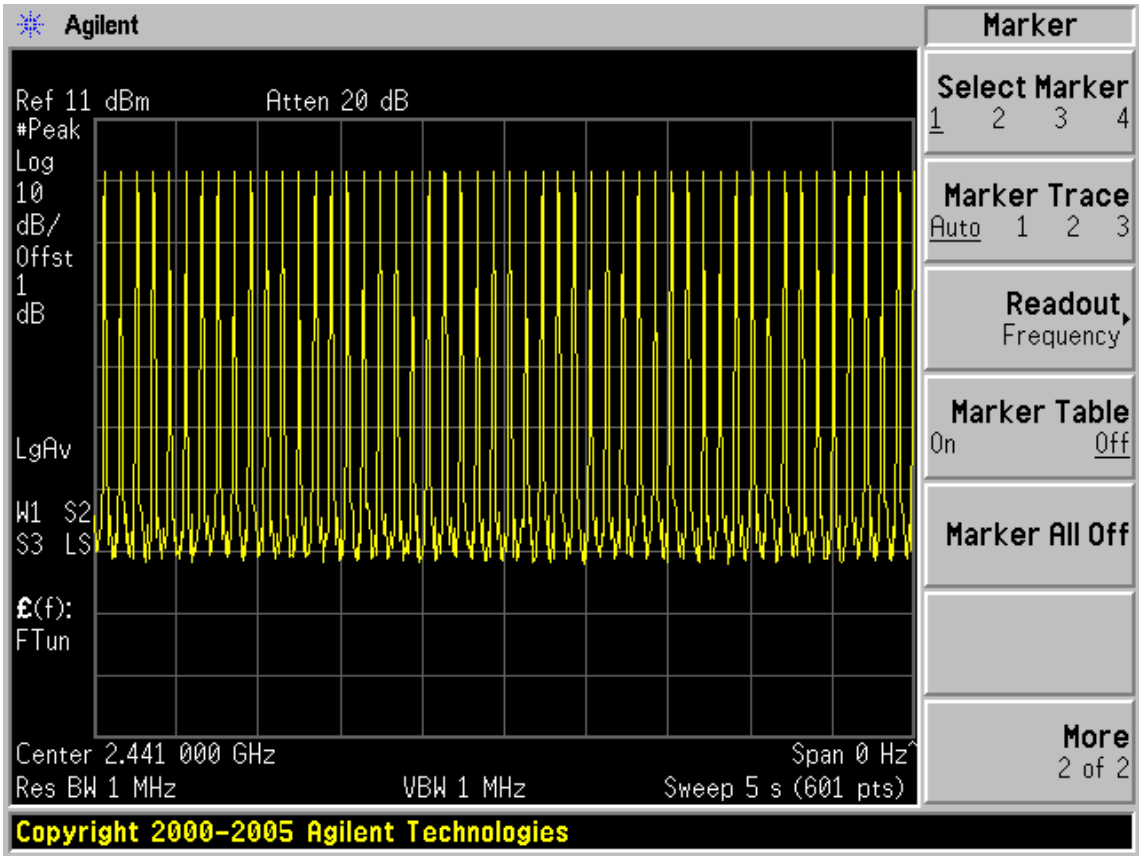
DH 5


Agilent
Freq/Channel
Ref 11 dBm
Atten 20 dB
#Peak
Log
10
dB/
Offst
1
dB
LgAv
W1 S2
S3 LS
£(f):
FTun
Center Freq
2.44100000 GHz
Start Freq
2.44100000 GHz
Stop Freq
2.44100000 GHz
CF Step
1.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 2.441 000 GHz
Span 0 Hz
Res BW 1 MHz
VBW 1 MHz
Sweep 5 s (601 pts)
Copyright 2000-2005 Agilent Technologies

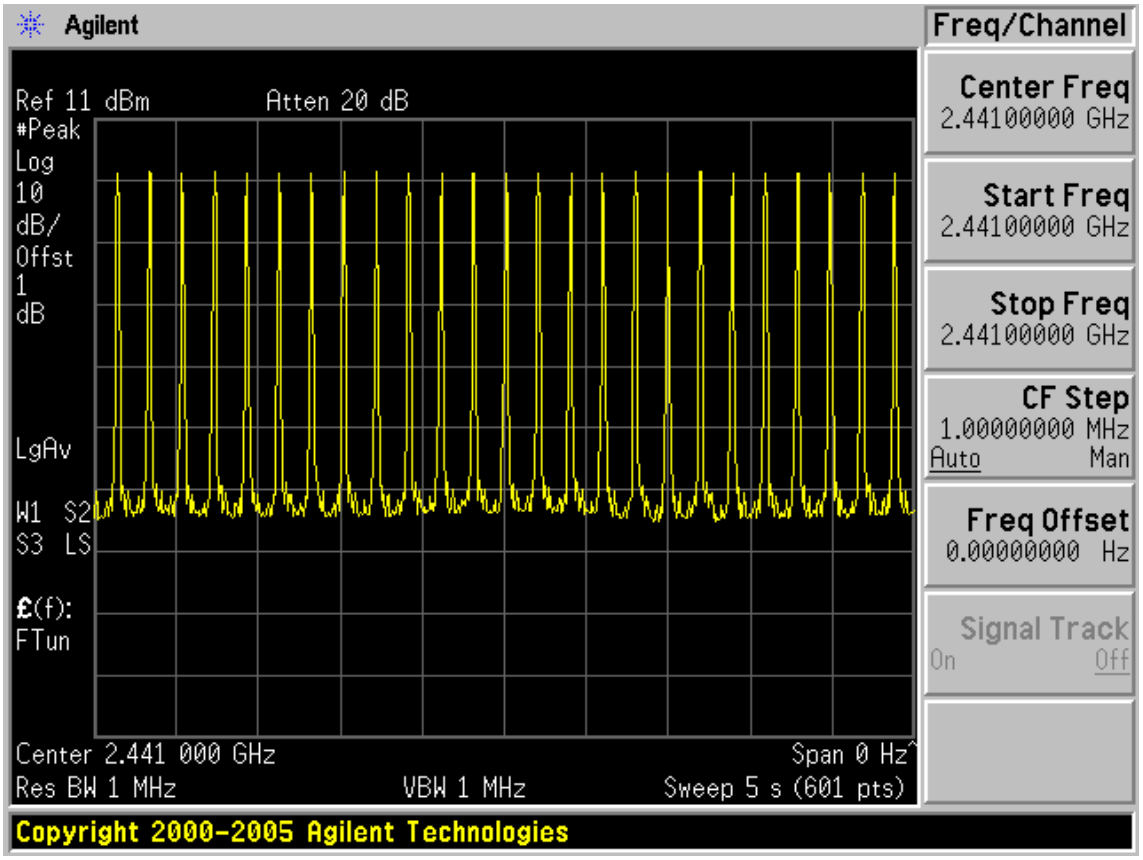

Agilent
Freq/Channel
Mkr1 2.967 ms
0.83 dB
Ref 11 dBm
Atten 20 dB
#Peak
Log
10
dB/
Offst
1
dB
LgAv
W1 S2
S3 LS
1R
1
£(f):
FTun
Center Freq
2.44100000 GHz
Start Freq
2.44100000 GHz
Stop Freq
2.44100000 GHz
CF Step
1.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 2.441 000 GHz
Span 0 Hz
Res BW 1 MHz
VBW 1 MHz
Sweep 5 ms (601 pts)
Copyright 2000-2005 Agilent Technologies

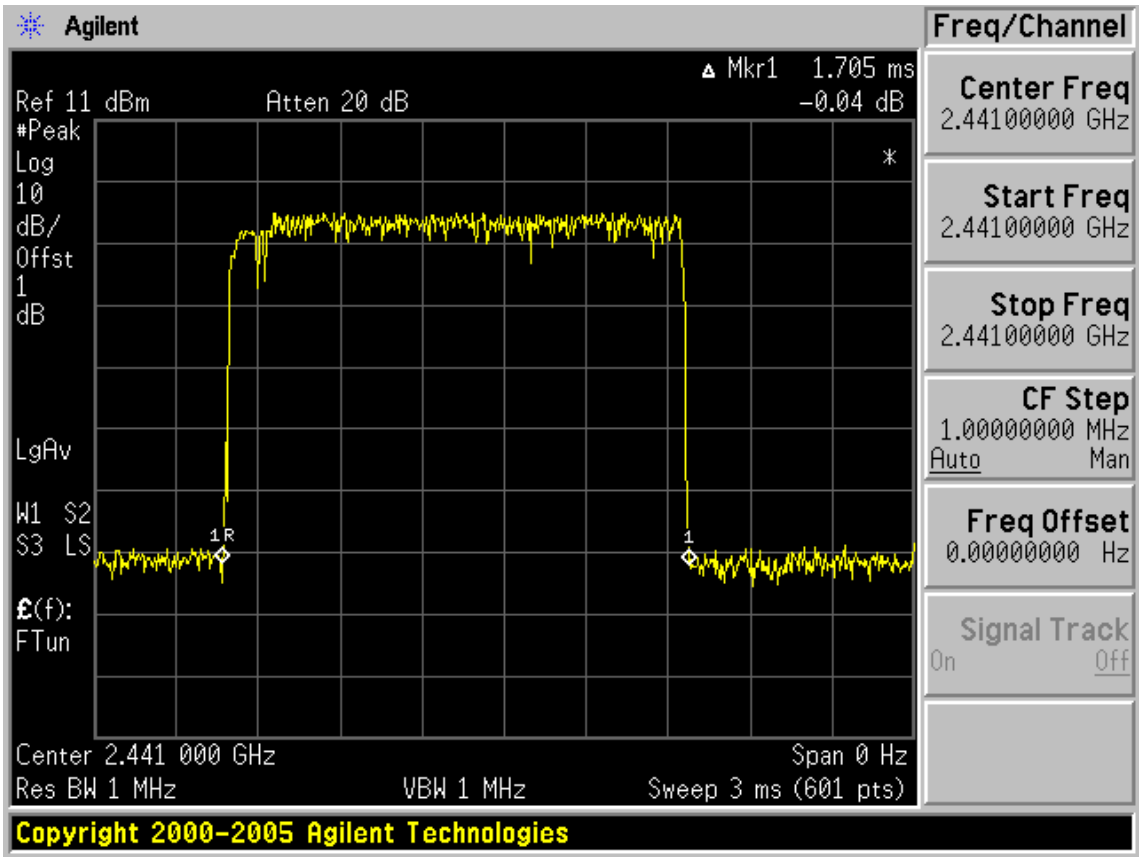
Test Mode: 8-DPSK
DH 1



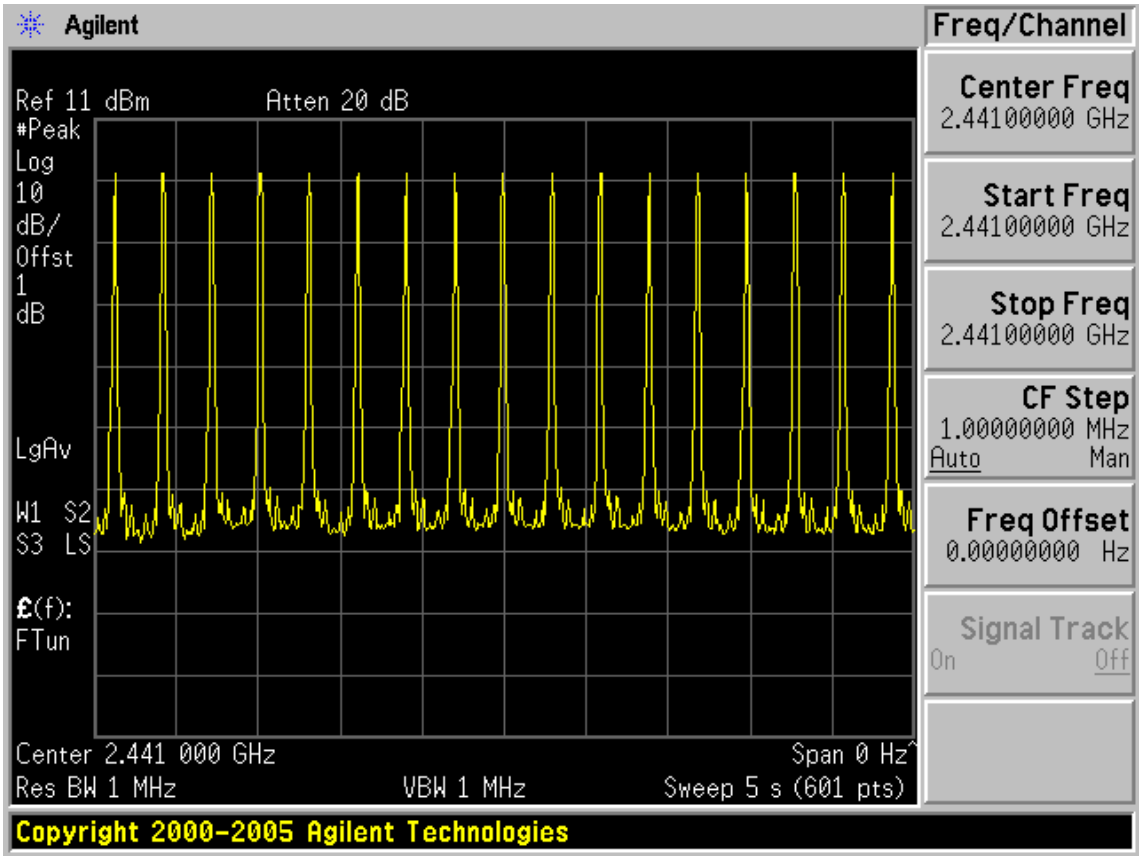


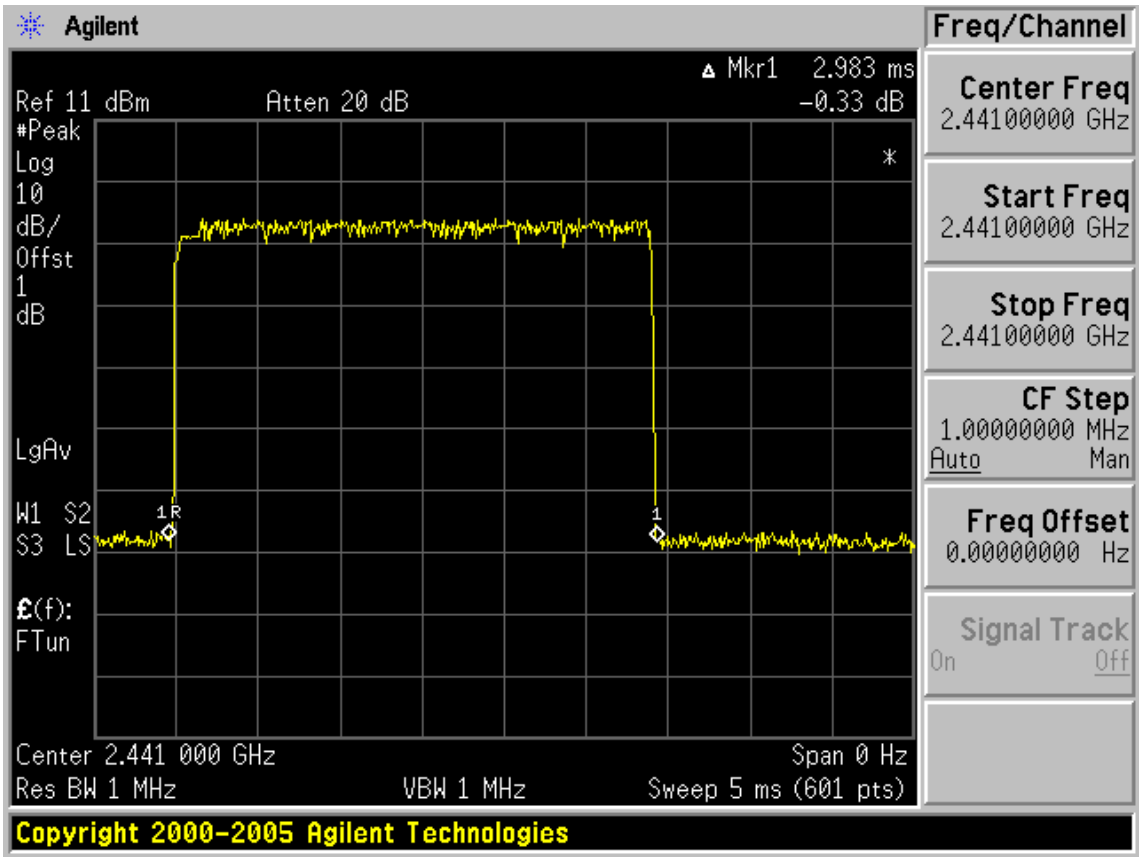
DH 3


Agilent
Freq/Channel
Ref 11 dBm
Atten 20 dB
#Peak
Log
10
dB/
Offst
1
dB
LgAv
W1 S2
S3 LS
£(f):
FTun
Center Freq
2.44100000 GHz
Start Freq
2.44100000 GHz
Stop Freq
2.44100000 GHz
CF Step
1.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 2.441 000 GHz
Span 0 Hz
Res BW 1 MHz
VBW 1 MHz
Sweep 5 s (601 pts)
Copyright 2000-2005 Agilent Technologies


Agilent
Freq/Channel
Mkr1 1.705 ms
-0.04 dB
Ref 11 dBm
Atten 20 dB
#Peak
Log
10
dB/
Offst
1
dB
LgAv
W1 S2
S3 LS
£(f):
FTun
1R
1
Center Freq
2.44100000 GHz
Start Freq
2.44100000 GHz
Stop Freq
2.44100000 GHz
CF Step
1.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 2.441 000 GHz
Span 0 Hz
Res BW 1 MHz
VBW 1 MHz
Sweep 3 ms (601 pts)
Copyright 2000-2005 Agilent Technologies

DH 5


Agilent
Freq/Channel
Ref 11 dBm
Atten 20 dB
#Peak
Log
10
dB/
Offst
1
dB
LgAv
W1 S2
S3 LS
£(f):
FTun
Center Freq
2.44100000 GHz
Start Freq
2.44100000 GHz
Stop Freq
2.44100000 GHz
CF Step
1.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 2.441 000 GHz
Span 0 Hz
Res BW 1 MHz
VBW 1 MHz
Sweep 5 s (601 pts)
Copyright 2000-2005 Agilent Technologies


Agilent
Freq/Channel
Mkr1 2.983 ms
-0.33 dB
Ref 11 dBm
Atten 20 dB
#Peak
Log
10
dB/
Offst
1
dB
LgAv
W1 S2
S3 LS
£(f):
FTun
Center Freq
2.44100000 GHz
Start Freq
2.44100000 GHz
Stop Freq
2.44100000 GHz
CF Step
1.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 2.441 000 GHz
Span 0 Hz
Res BW 1 MHz
VBW 1 MHz
Sweep 5 ms (601 pts)
Copyright 2000-2005 Agilent Technologies

10. MAXIMUM PEAK OUTPUT POWER TEST

10.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9607-4877	May.08, 13	1 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year
5.	Power Meter	Anritsu	ML2487A	6K00002472	May.08, 13	1 Year
6.	Power Sensor	Anritsu	MA2491A	033005	May.08, 13	1 Year

10.2. Limit

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. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

10.3. Test Procedure

Connected the EUT's antenna port to Power Sensor, and use power meter to test peak output power Directly.

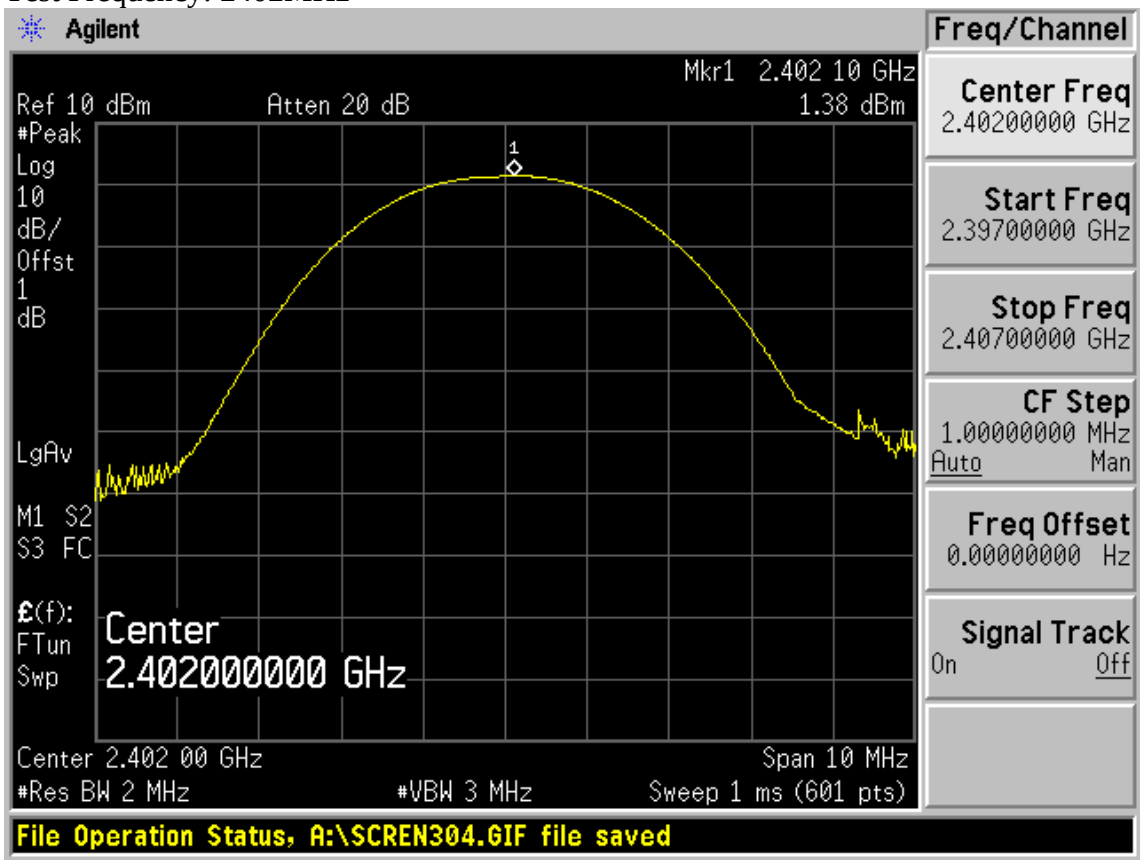
10.4. Test Results

EUT: EX1-R Bluetooth Headset with NC		
M/N: E1RMOB-21		
Test date: 2013-08-22	Pressure: 101.4±1.0 kpa	Humidity: 52.3±1.0%
Tested by: Leo-Li	Test site: RF site	Temperature:24.3±1.0 ℃

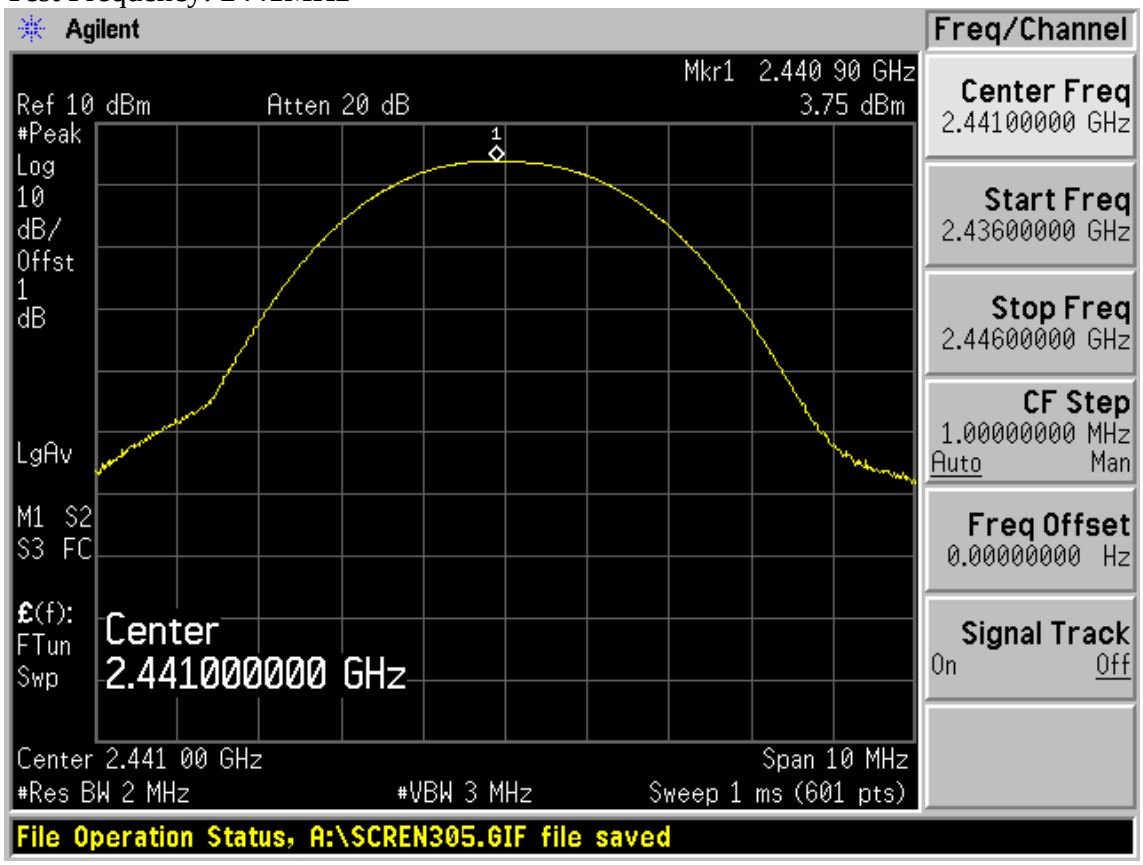
Test Mode	Frequency (MHz)	Peak output Power （dBm）	Limit (dBm)
GFSK	2402	1.38	30
	2441	3.75	30
	2480	4.89	30
8-DPSK	2402	-0.31	30
	2441	2.52	30
	2480	3.90	30
Conclusion: PASS			

GFSK

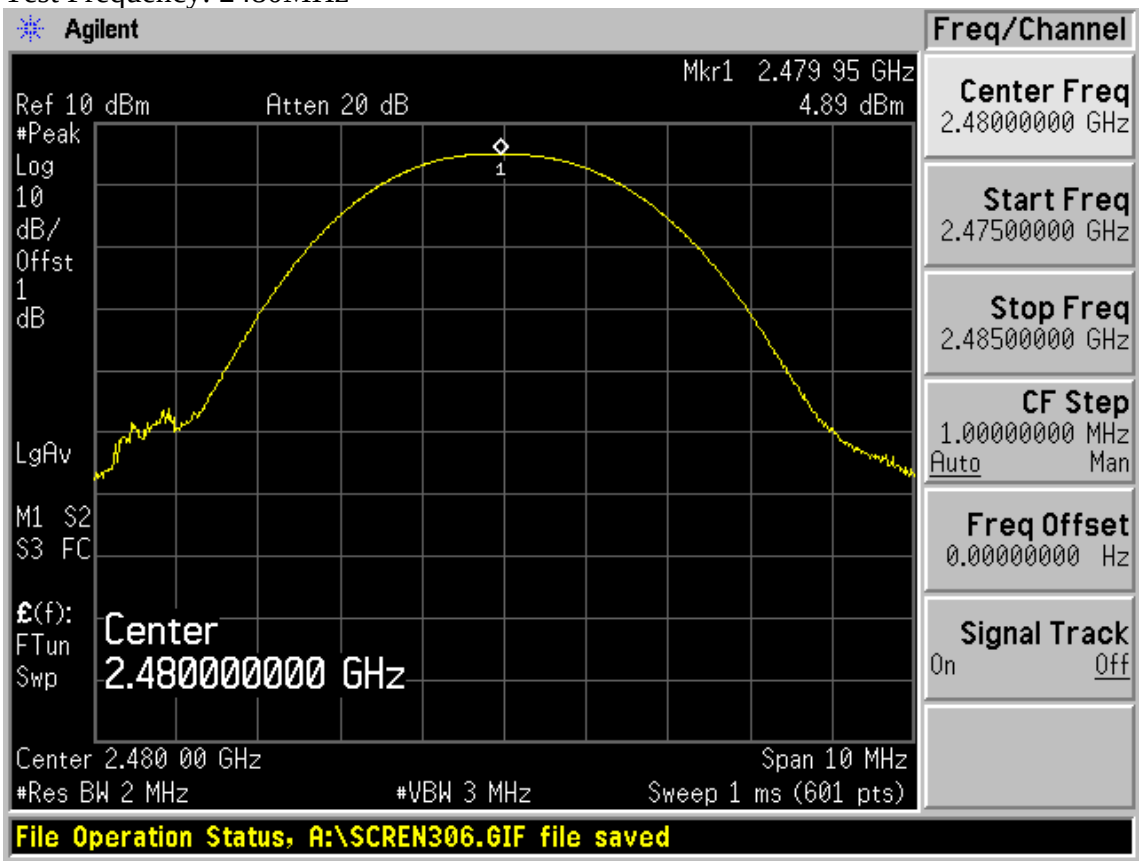
Test Frequency: 2402MHz



Test Frequency: 2441MHz

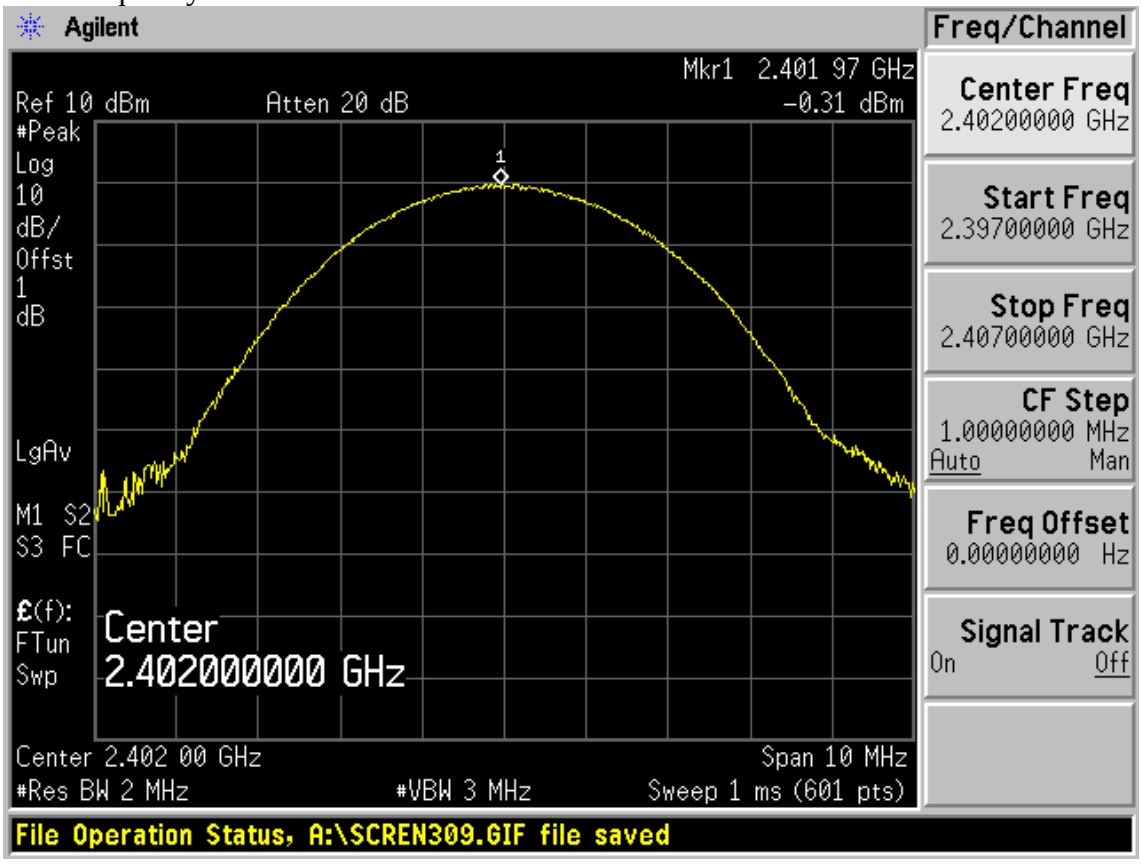


Test Frequency: 2480MHz

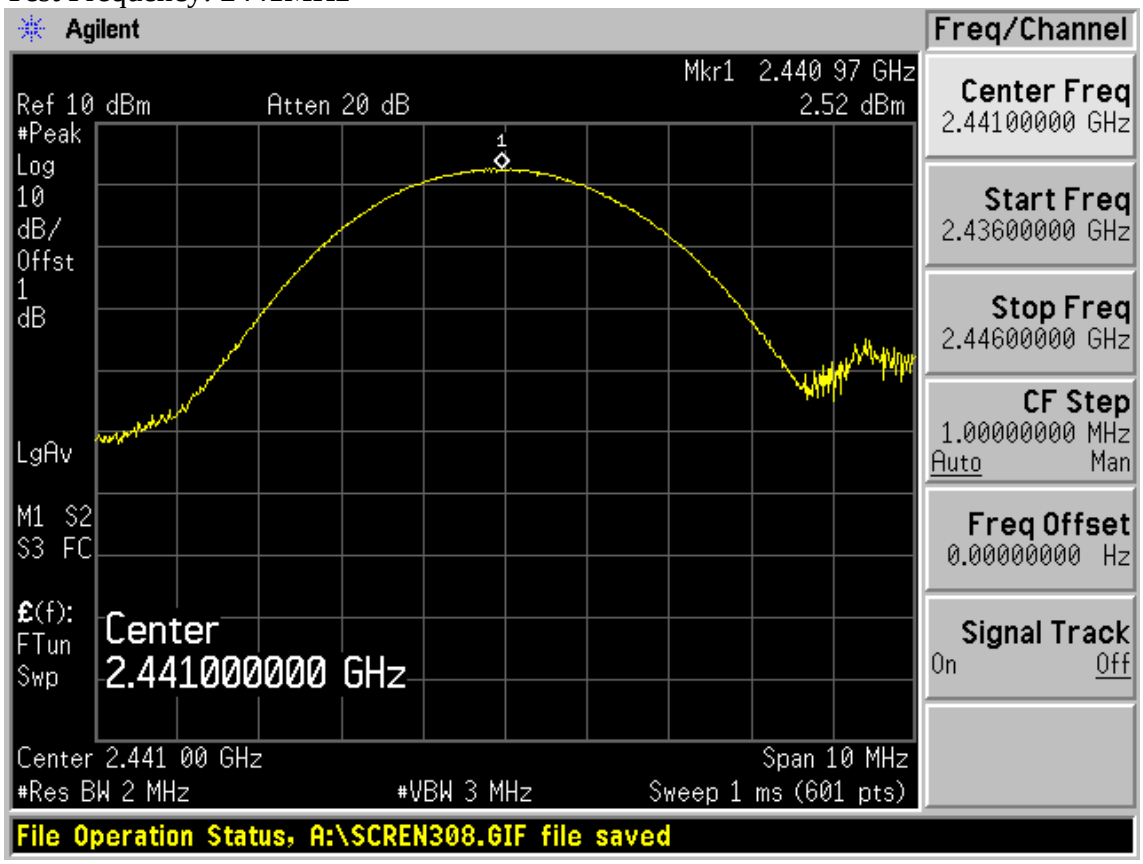


8DPSK

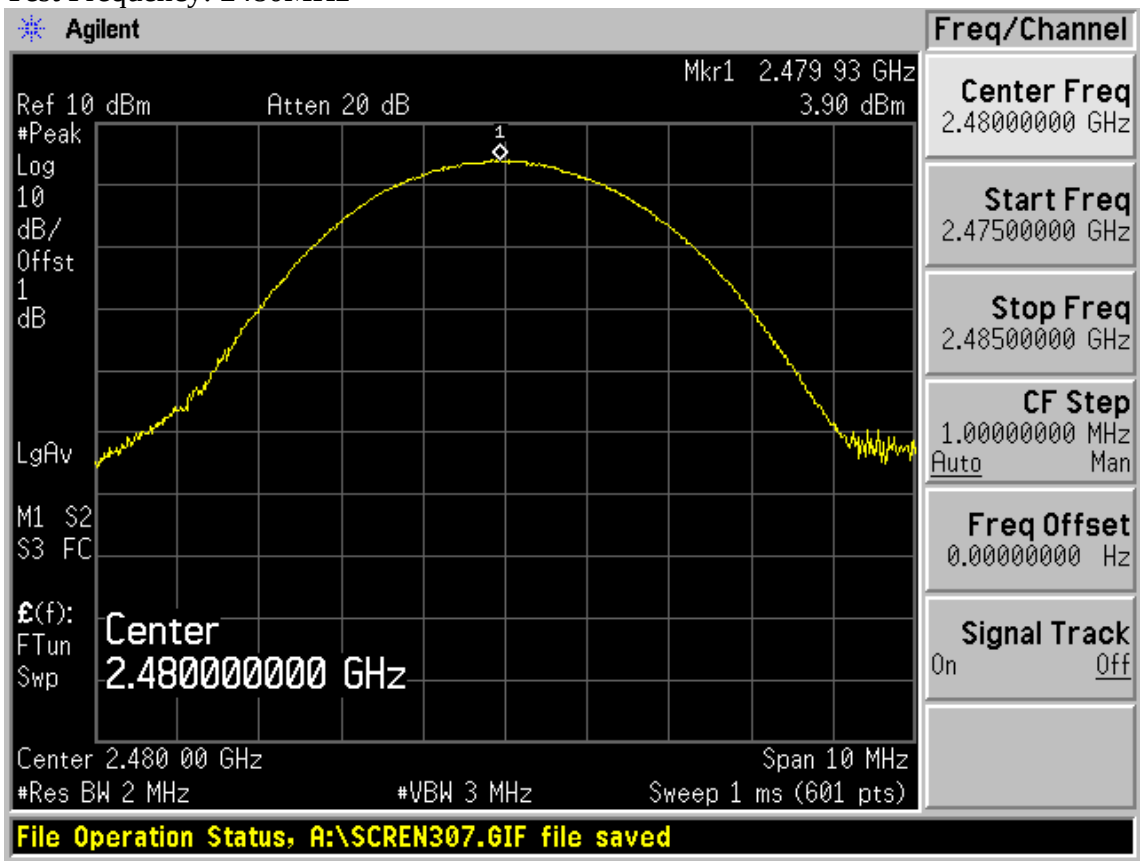
Test Frequency: 2402MHz



Test Frequency: 2441MHz



Test Frequency: 2480MHz



11. BAND EDGE COMPLIANCE TEST

11.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9607-4877	May.08, 13	1 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

11.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

11.3. Test Produce

For upper band emissions that are up to two bandwidths(2MHz) away (2483.5MHz to 2485.5MHz） from the band-edge use below produce:

1. Choose a spectrum analyzer span that encompasses both the peak of the fundamental emission and the band-edge emission under investigation. Set the analyzer RBW to 100KHz and with a video bandwidth 300KHz. Record the peak levels of the fundamental emission and the relevant band-edge emission, Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not a field strength measurement, it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.
2. Subtract the delta measured in step (1) from the maximum field strengths measured in clause 4 .The resultant field strengths are then used to determine band-edge compliance as required by Section 15.205

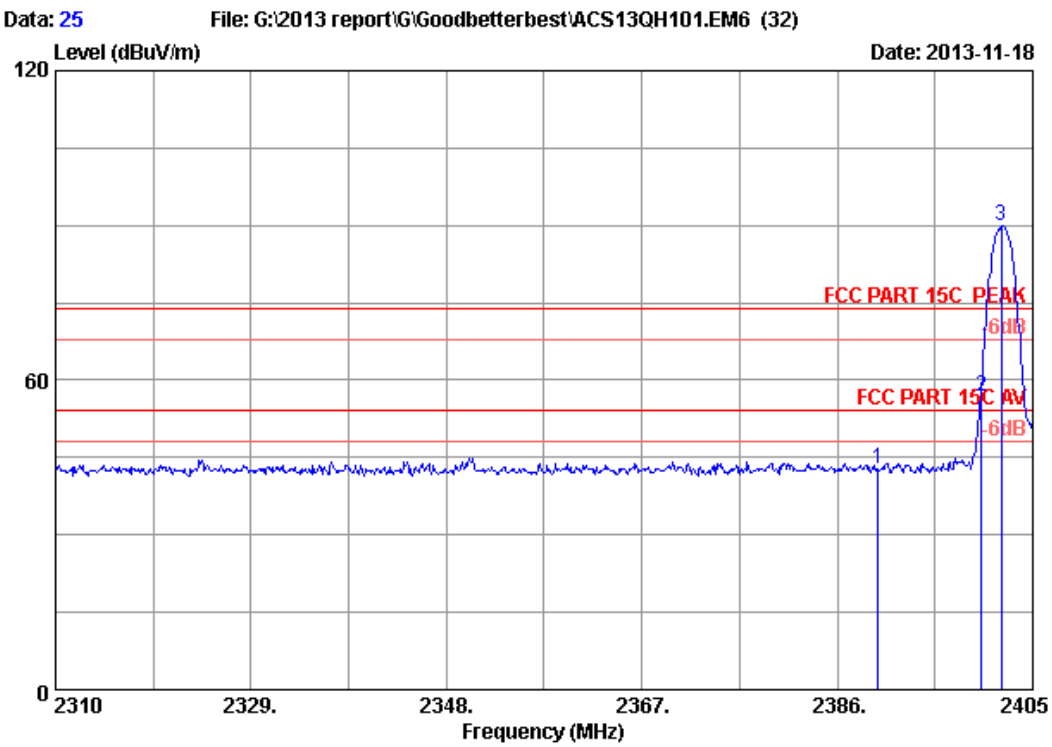
For emissions above two bandwidths away from the band-edge use below produce:

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
   (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
   (b) This is pulse Modulation device a duty cycle factor was used to calculate average level based measured peak level.

11.4. Test Results

Pass (The testing data was attached in the next pages.)

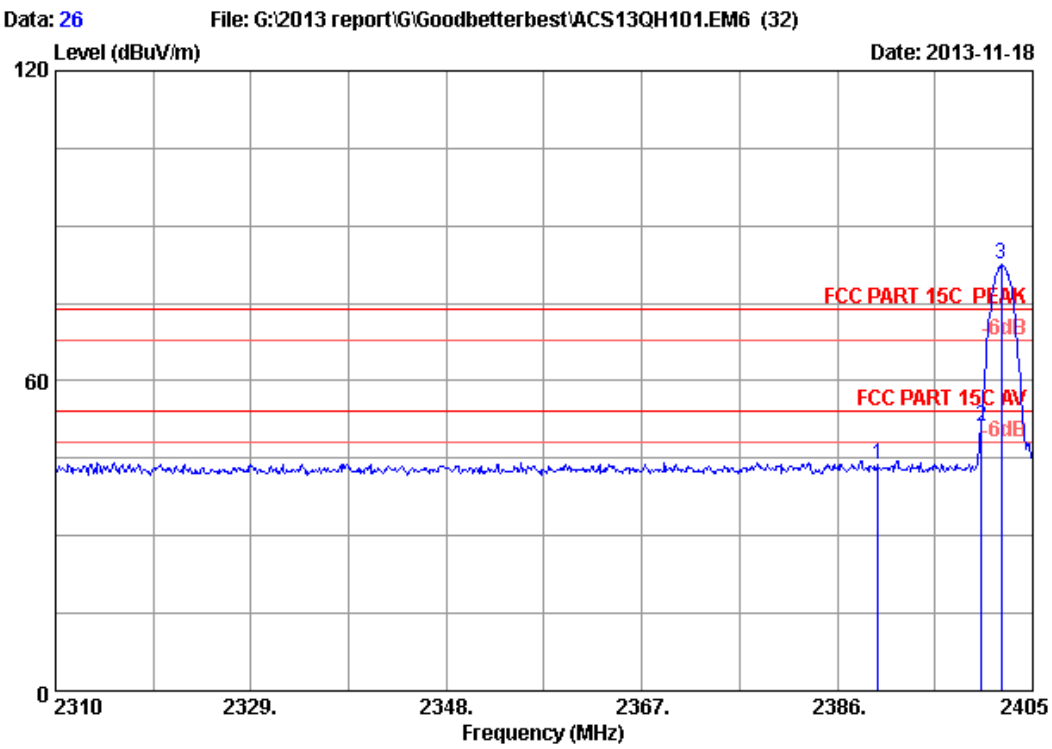
Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



Site no. : 3m Chamber Data no. : 25
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : 8-DPSK 2402MHz Tx
E1RMOB-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	44.57	42.81	74.00	31.19	Peak
2	2400.000	28.18	5.80	35.70	58.61	56.89	74.00	17.11	Peak
3	2401.960	28.18	5.80	35.70	91.79	90.07	74.00	-16.07	Peak

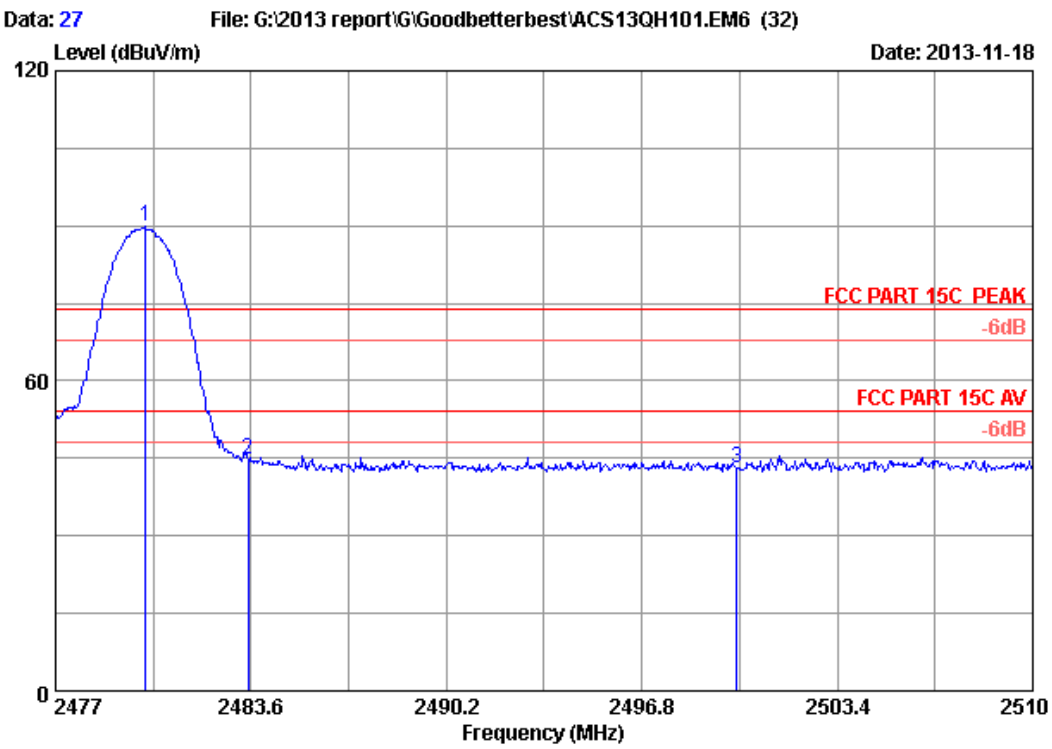
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : 8-DPSK 2402MHz Tx
E1RMOB-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	45.42	43.66	74.00	30.34	Peak
2	2400.000	28.18	5.80	35.70	52.75	51.03	74.00	22.97	Peak
3	2401.960	28.18	5.80	35.70	84.19	82.47	74.00	-8.47	Peak

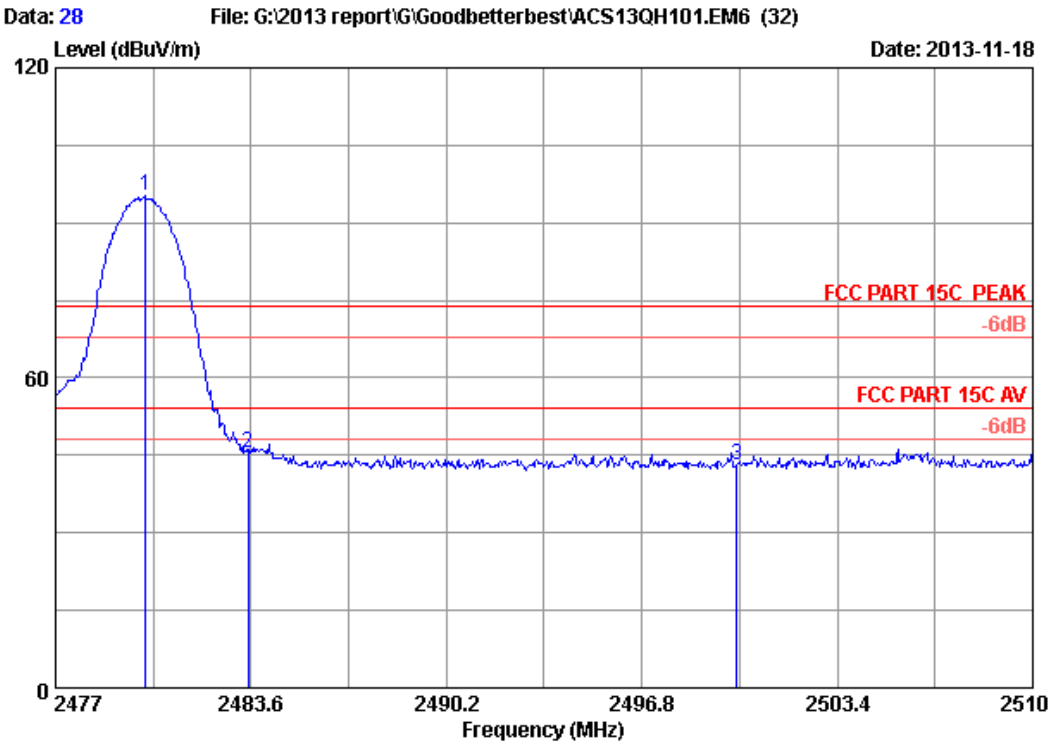
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : 8-DPSK 2480MHz Tx
E1RMOB-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.036	28.36	5.91	35.70	91.23	89.80	74.00	-15.80	Peak
2	2483.500	28.36	5.92	35.70	46.08	44.66	74.00	29.34	Peak
3	2500.000	28.40	5.94	35.70	44.48	43.12	74.00	30.88	Peak

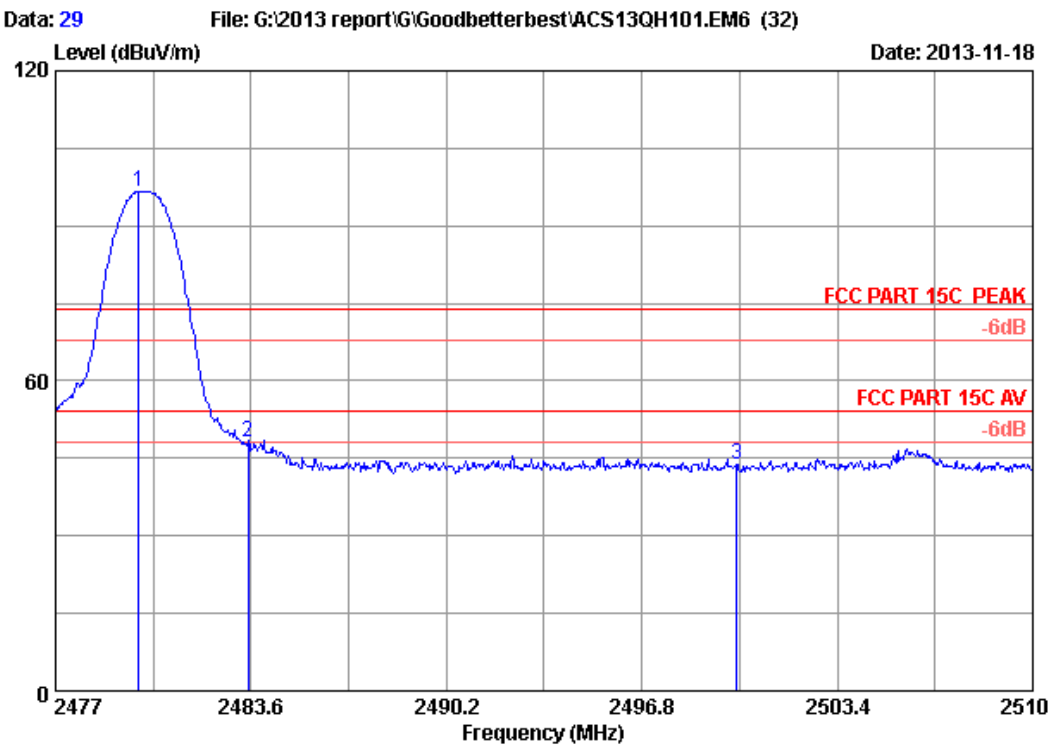
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 28
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : 8-DPSK 2480MHz Tx
E1RMOB-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.036	28.36	5.91	35.70	96.65	95.22	74.00	-21.22	Peak
2	2483.500	28.36	5.92	35.70	46.80	45.38	74.00	28.62	Peak
3	2500.000	28.40	5.94	35.70	44.38	43.02	74.00	30.98	Peak

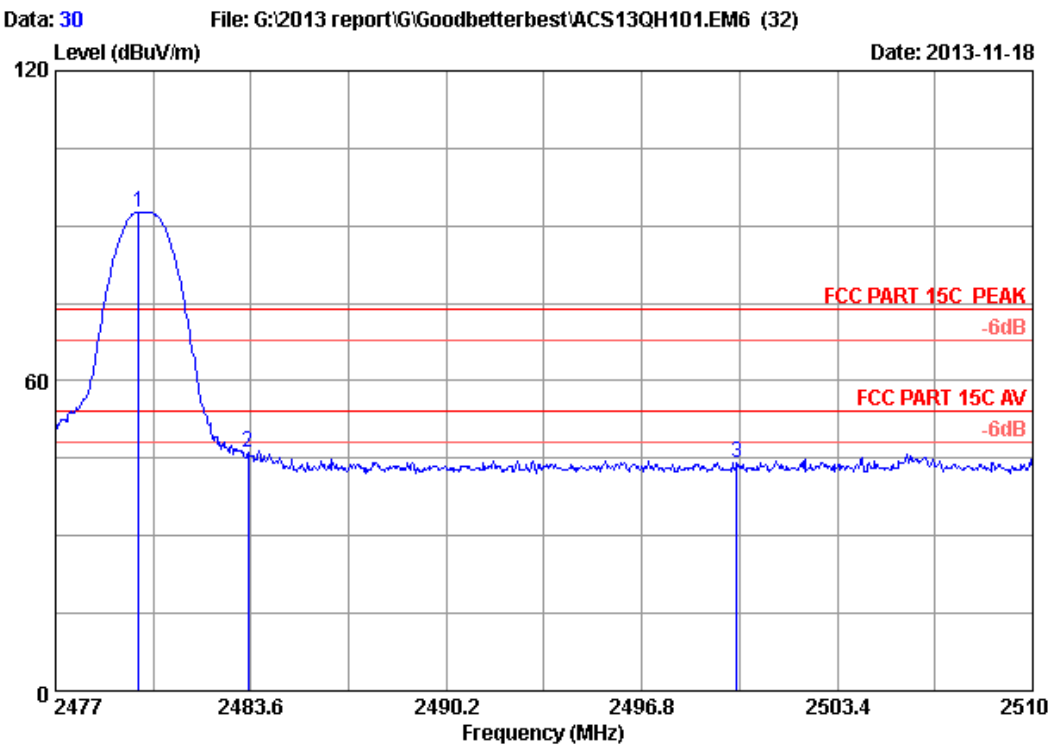
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : GFSK 2480MHz Tx
E1RMOB-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.805	28.36	5.91	35.70	98.06	96.63	74.00	-22.63	Peak
2	2483.500	28.36	5.92	35.70	49.40	47.98	74.00	26.02	Peak
3	2500.000	28.40	5.94	35.70	45.13	43.77	74.00	30.23	Peak

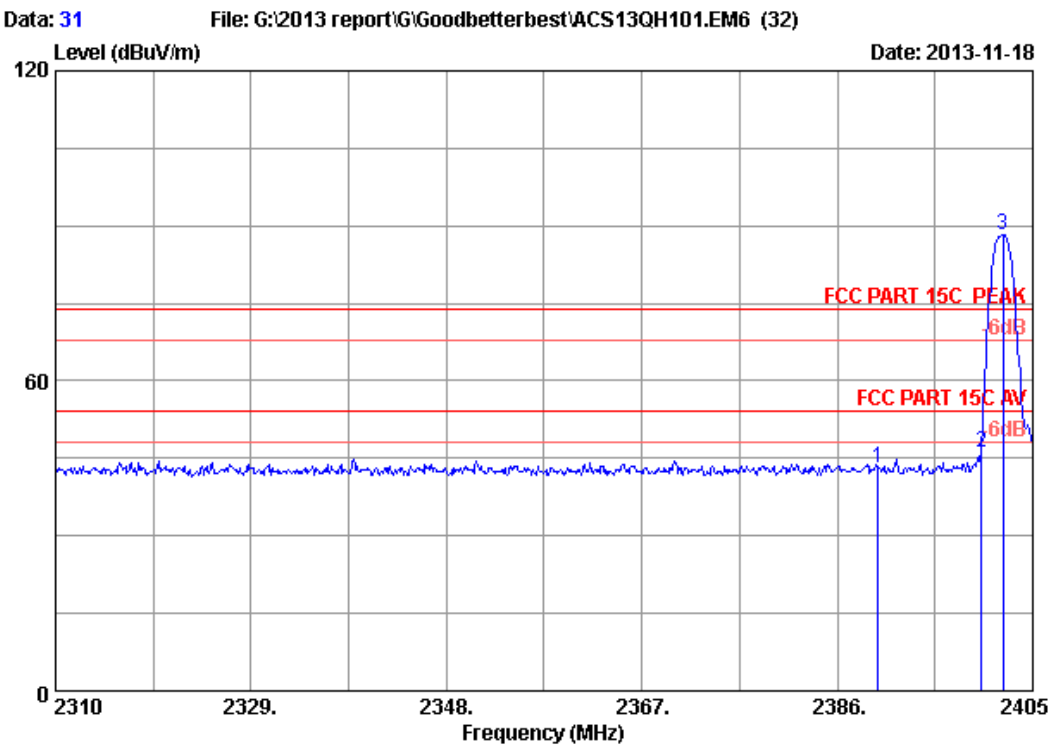
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 30
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : GFSK 2480MHz Tx
E1RMOB-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.805	28.36	5.91	35.70	94.15	92.72	74.00	-18.72	Peak
2	2483.500	28.36	5.92	35.70	47.61	46.19	74.00	27.81	Peak
3	2500.000	28.40	5.94	35.70	45.52	44.16	74.00	29.84	Peak

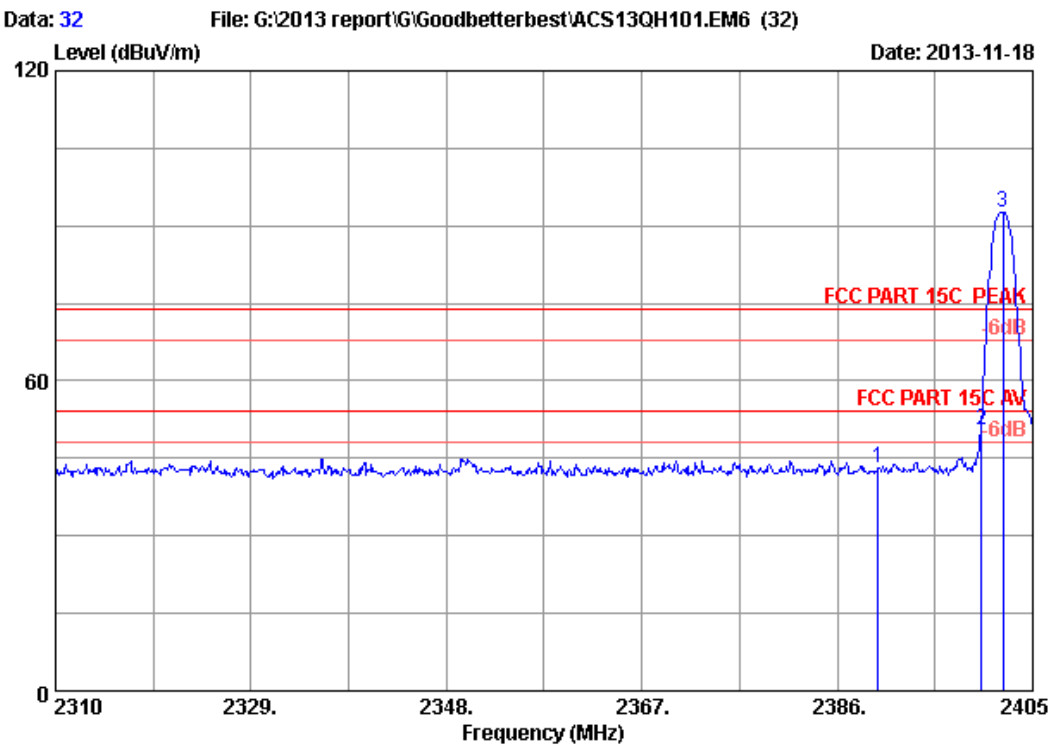
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : GFSK 2402MHz Tx
E1RMOB-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	45.04	43.28	74.00	30.72	Peak
2	2400.000	28.18	5.80	35.70	47.99	46.27	74.00	27.73	Peak
3	2402.150	28.18	5.80	35.70	89.96	88.24	74.00	-14.24	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 32
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX1-R Bluetooth Headset with NC
Power supply : DC 5V From PC Input AC 120V/50Hz
Test mode : GFSK 2402MHz Tx
E1RMOB-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	44.74	42.98	74.00	31.02	Peak
2	2400.000	28.18	5.80	35.70	52.35	50.63	74.00	23.37	Peak
3	2402.150	28.18	5.80	35.70	94.34	92.62	74.00	-18.62	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

12. DEVIATION TO TEST SPECIFICATIONS

[NONE]