

FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

Goodbetterbest Limited

GC-2 Wireless Controller

Model Number: GC2PS3-11

FCC ID: VS9-GC2PS3-11

Prepared for : Goodbetterbest Limited
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Date of Report : Dec.12, 2012

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TEST REPORT CERTIFICATION

Applicant : Goodbetterbest Limited
 Manufacturer : SHENZHEN XINZHENGSHENG ELECTRONICS CO., LTD
 EUT Description : GC-2 Wireless Controller
 FCC ID : VS9-GC2PS3-11
 (A) Model NO. : GC2PS3-11
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 5V From PS3 Input AC 120V/60Hz
 (D) TEST VOLTAGE : DC 5V From PS3 Input AC 120V/60Hz

Tested for comply with:

FCC Rules and Regulations Part 15 Subpart C: 2011

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. This report contains data that are not covered by the NVLAP accreditation. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

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 : Nov.05~ Dec.04, 2012 Report of date: Dec.12, 2012

Prepared by : June Shao Reviewed by : Sunny Lu / Assistant Manager
 June Shao/ Assistant



Approved & Authorized Signer :

Ken Lu / 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

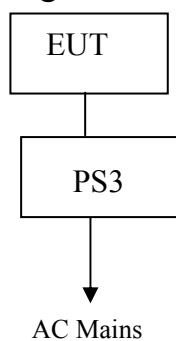
2.1. Description of Device (EUT)

Product Name	: GC-2 Wireless Controller
Model No	: GC2PS3-11
FCC	: VS9-GC2PS3-11
Operation Frequency	: 2402MHz-2480MHz
Radio	: Bluetooth 2.1+EDR
Antenna Assembly Gain	: Integrated PCB antenna, 0dBi gain
Modulation	: GFSK; $\pi/4$ DQPSK, 8-DPSK Note: $\pi/4$ DQPSK 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.
Applicant	: Goodbetterbest Limited Suites 103-107, Devonshire Business Centre, Works Road, Letchworth, SG6 1GJ, United Kingdom
Manufacturer	: SHENZHEN XINZHENGSHENG ELECTRONICS CO., LTD. Building 49, Baotian Industrial Zone, Xixiang Town, Baoan District, Shenzhen, China
USB Cable	: Shielded, Detachable, 0.6 m
Date of Test	: Nov.05~Dec.04, 2012
Date of Receipt	: Nov.04, 2012
Sample Type	: Prototype production

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	PS3	---	SONY	CECH-3012B	---	---

2.3. Block Diagram of connection between EUT and simulators



(EUT: GC-2 Wireless Controller)

2.4. 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: Dec.30, 2012

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, 2013

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

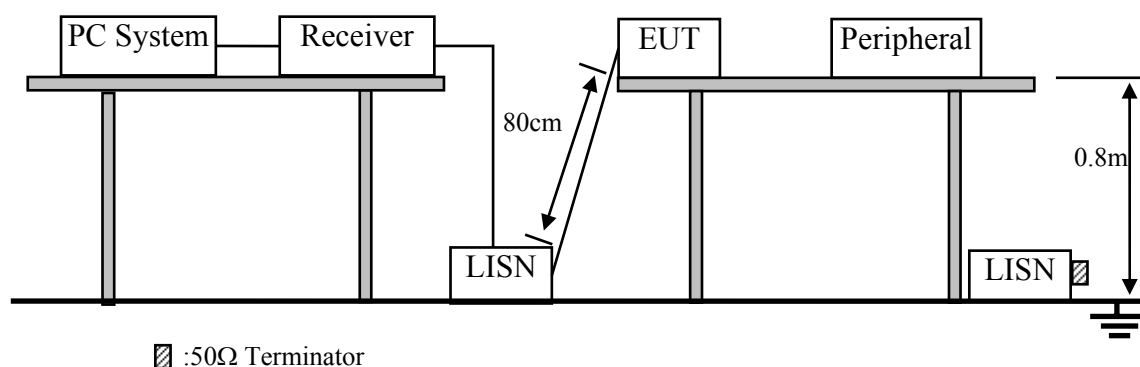
Test Item	Uncertainty
Uncertainty for Radiation Emission test in 3m chamber	3.6 dB(30~200MHz, Polarize: H)
	3.7 dB(30~200MHz, Polarize: V)
	4.0 dB(200M~1GHz, Polarize: H)
	3.7 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	3.1dB (Distance: 3m Polarize: V)
	3.7 dB (Distance: 3m Polarize: H)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.57dB
Uncertainty for Conduction Spurious emission test	2.00 dB
Uncertainty for Output power test	0.73 dB
Uncertainty for Power density test	2.00 dB
Uncertainty for Frequency range test	7×10^{-8}
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

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, 12	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 12	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 12	1 Year
6.	RF Cable	Fujikura	3D-2W	No.1	May.08, 12	1 Year
7.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 12	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 12	1 Year

3.2. Block Diagram of Test Setup



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. GC-2 Wireless Controller (EUT)

Model Number : GC2PS3-11

Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

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.

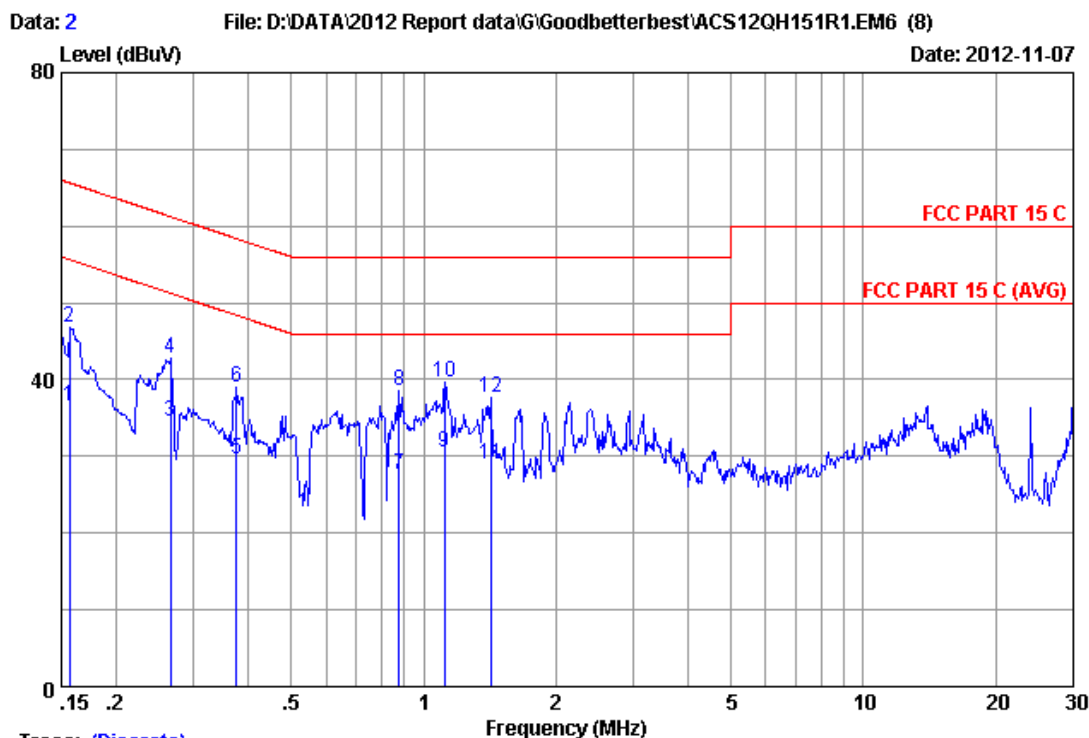
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). 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.

3.6. Conducted Disturbance at Mains Terminals Test Results

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

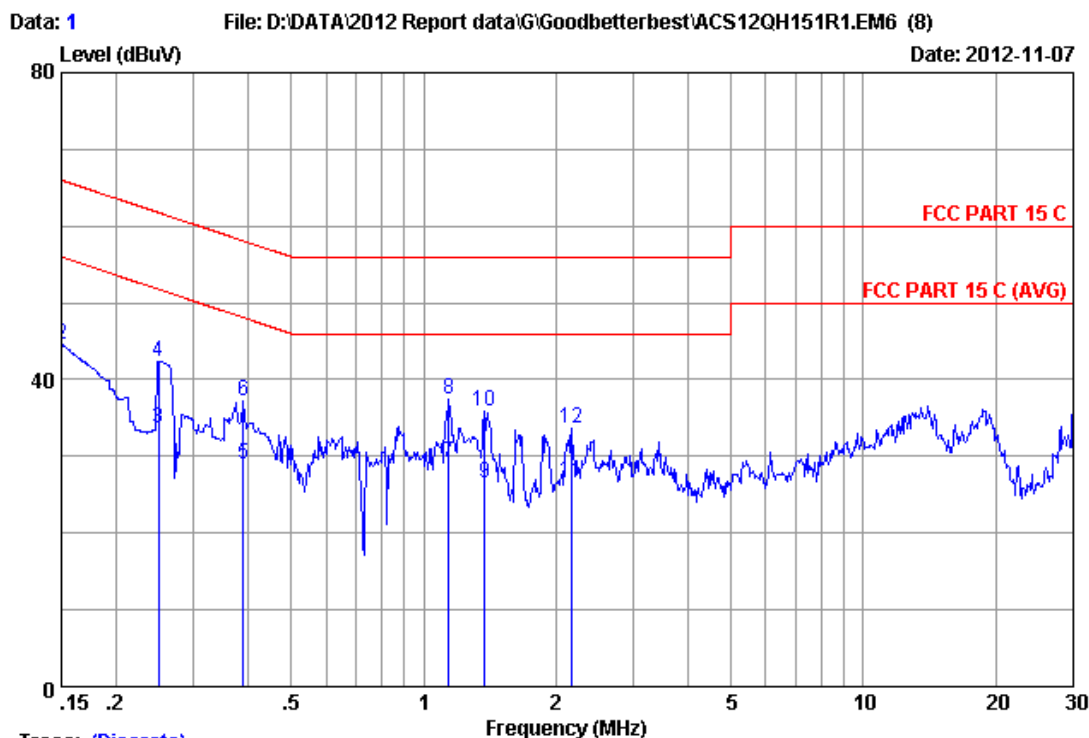


Trace: (Discrete)

Site no :1#conduction Data No :2
Dis./Ant. :** 2012 ESH2-Z5 LINE
Limit :FCC PART 15 C
Env./Ins. :23.9°C/61% Engineer :Leo-Li
EUT :GC-2 Wireless Controller
Power Rating :DC 5V From PS3 Input AC 120V/60Hz
Test Mode :Tx Mode
M/N:GC2PS3-11

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15649	0.16	9.94	26.41	36.51	55.65	19.14	Average
2	0.15649	0.16	9.94	36.75	46.85	65.65	18.80	QP
3	0.26583	0.15	9.95	24.51	34.61	51.25	16.64	Average
4	0.26583	0.15	9.95	32.61	42.71	61.25	18.54	QP
5	0.37512	0.16	9.95	19.45	29.56	48.39	18.83	Average
6	0.37512	0.16	9.95	28.87	38.98	58.39	19.41	QP
7	0.88031	0.17	9.94	17.45	27.56	46.00	18.44	Average
8	0.88031	0.17	9.94	28.54	38.65	56.00	17.35	QP
9	1.117	0.17	9.94	20.36	30.47	46.00	15.53	Average
10	1.117	0.17	9.94	29.62	39.73	56.00	16.27	QP
11	1.418	0.19	9.94	18.73	28.86	46.00	17.14	Average
12	1.418	0.19	9.94	27.59	37.72	56.00	18.28	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Trace: (Discrete)

Site no :1#conduction Data No :1
Dis./Ant. :** 2012 ESH2-Z5 NEUTRAL
Limit :FCC PART 15 C
Env./Ins. :23.9°C/61% Engineer :Leo-Li
EUT :GC-2 Wireless Controller
Power Rating :DC 5V From PS3 Input AC 120V/60Hz
Test Mode :Tx Mode
M/N:GC2PS3-11

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.14	9.94	25.62	35.70	56.00	20.30	Average
2	0.15000	0.14	9.94	34.51	44.59	66.00	21.41	QP
3	0.24945	0.14	9.95	23.50	33.59	51.78	18.19	Average
4	0.24945	0.14	9.95	32.34	42.43	61.78	19.35	QP
5	0.38929	0.15	9.95	18.89	28.99	48.08	19.09	Average
6	0.38929	0.15	9.95	27.20	37.30	58.08	20.78	QP
7	1.141	0.18	9.94	19.12	29.24	46.00	16.76	Average
8	1.141	0.18	9.94	27.41	37.53	56.00	18.47	QP
9	1.374	0.18	9.94	16.45	26.57	46.00	19.43	Average
10	1.374	0.18	9.94	25.71	35.83	56.00	20.17	QP
11	2.167	0.20	9.94	16.70	26.84	46.00	19.16	Average
12	2.167	0.20	9.94	23.61	33.75	56.00	22.25	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

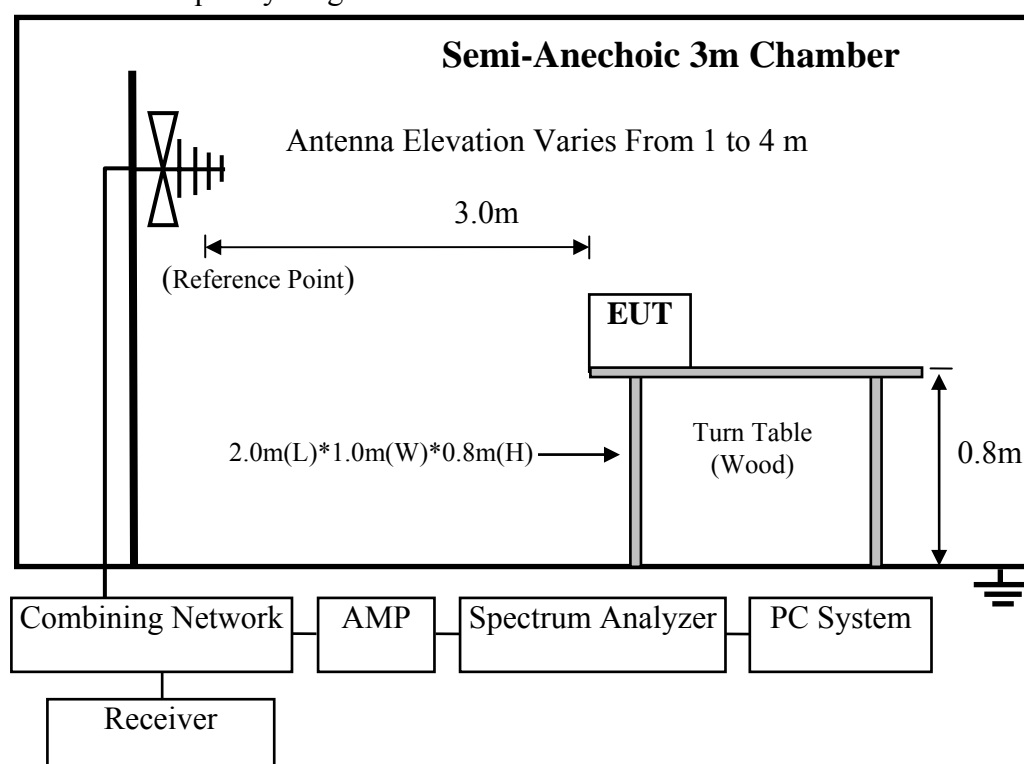
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.28,11	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 12	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 12	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 12	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Dec.26, 10	2.0 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	May.08, 12	1 Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 12	1 Year

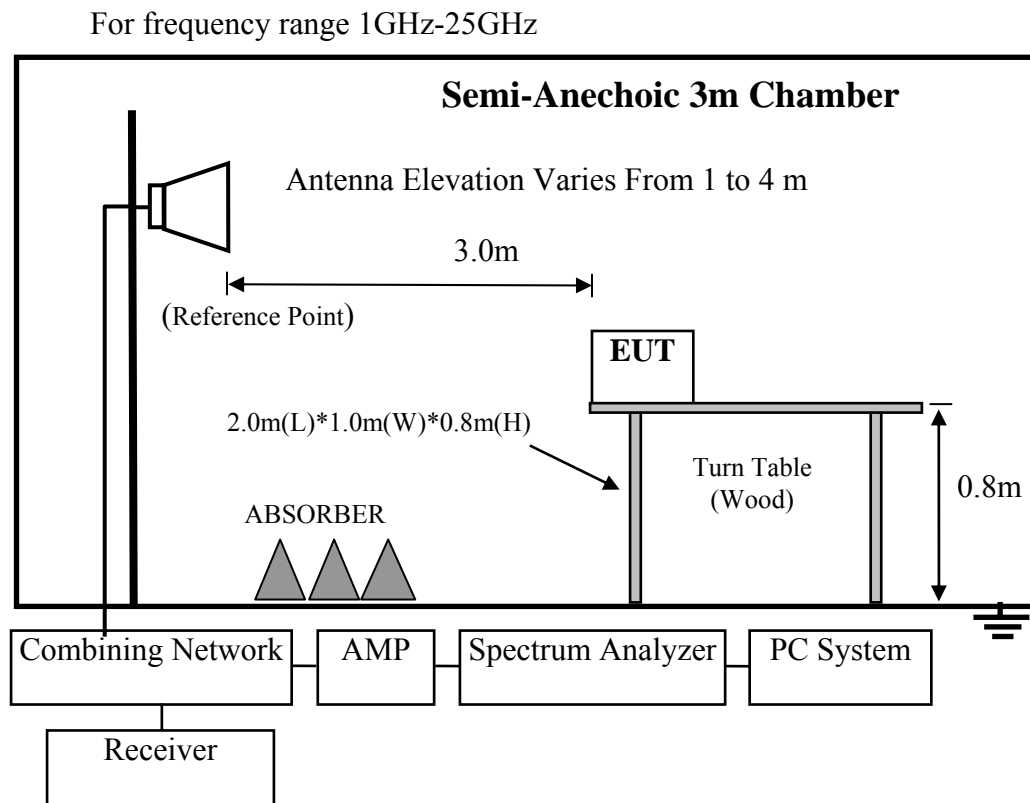
Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 12	1 Year
2	Horn Antenna	EMCO	3115	9510-4580	June.05, 12	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 12	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77980/6	May.08, 12	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 12	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 12	0.5Year
7	Horn Antenna	EMCO	3116	00060089	Nov.25,11	1.5 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz





4.3. Radiated Emission Limit Standard: FCC 15.209 and 15.247

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Remark : (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$

(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.

4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

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.

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

The duty cycle of the signal during the test is 100%

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.

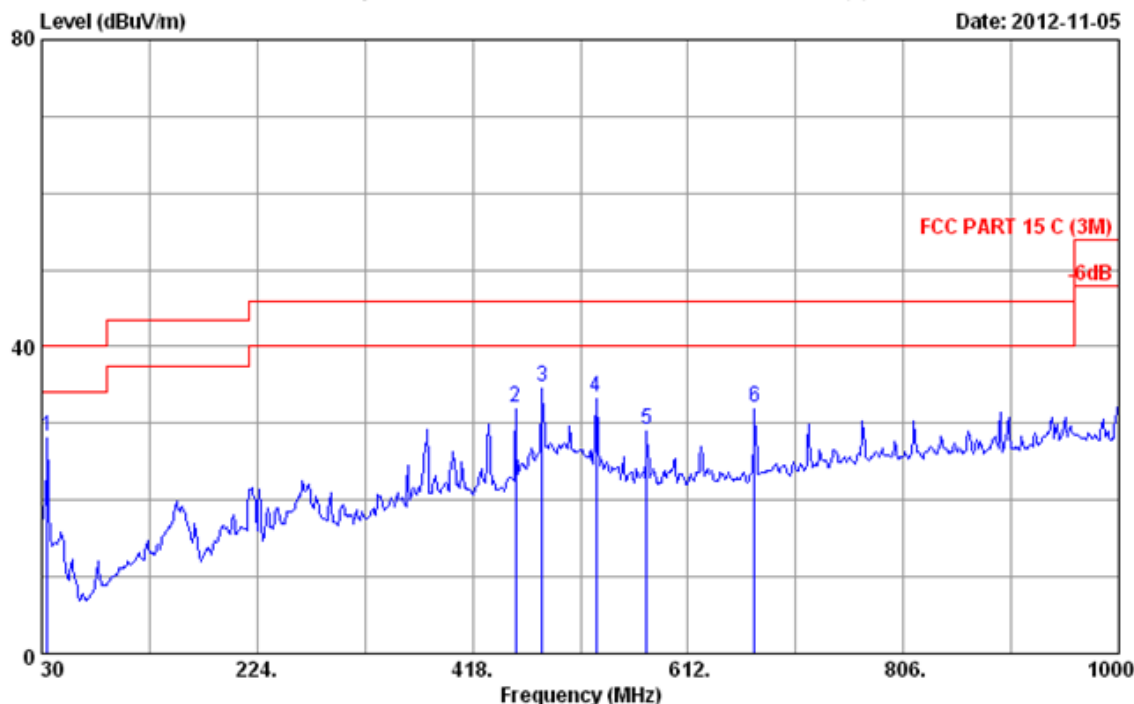
All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Frequency: 30MHz~1GHz

Data: 1

File: E:\2012 Report Data\G\Goodbetterbest\ACS120H151R1.EM6 (6)

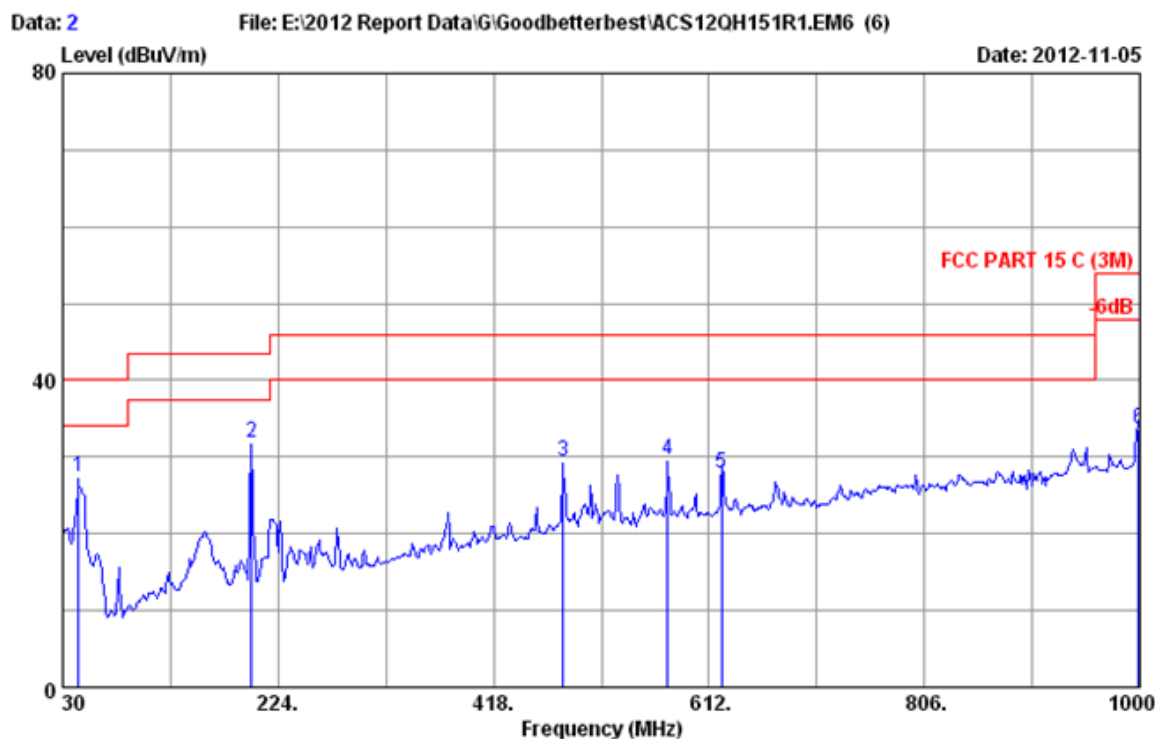
Date: 2012-11-05



Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2012 CBL6111C 2598 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24°C/56% Engineer : Leo_Li
EUT : GC-2 Wireless Controller
Power rating : DC 5V From PS3 Input AC120V/60Hz
Test Mode : Tx Mode
M/N:GC2PS3-11

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.850	16.01	0.51	11.85	28.37	40.00	11.63	QP
2	456.800	17.90	1.71	12.52	32.13	46.00	13.87	QP
3	481.050	18.26	1.77	14.75	34.78	46.00	11.22	QP
4	529.550	19.07	1.91	12.44	33.42	46.00	12.58	QP
5	575.140	20.10	2.05	7.10	29.25	46.00	16.75	QP
6	672.140	21.29	2.34	8.54	32.17	46.00	13.83	QP

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

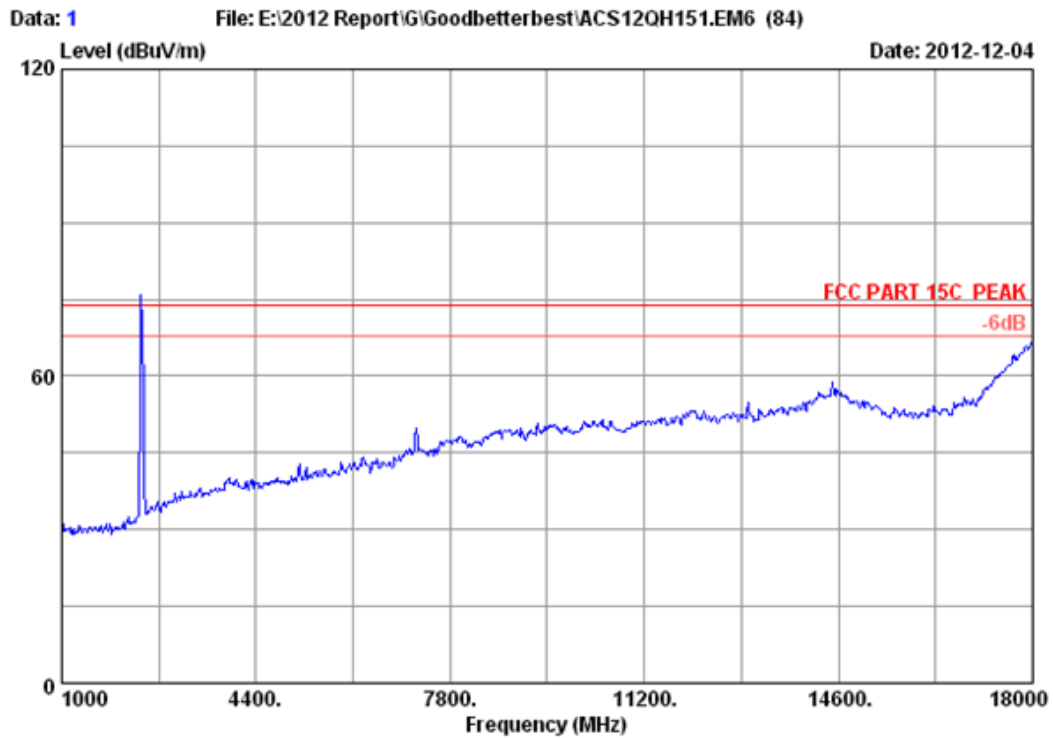


Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2012 CBL6111C 2598 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24°C/56% Engineer : Leo_Li
EUT : GC-2 Wireless Controller
Power rating : DC 5V From PS3 Input AC120V/60Hz
Test Mode : Tx Mode
M/N:GC2PS3-11

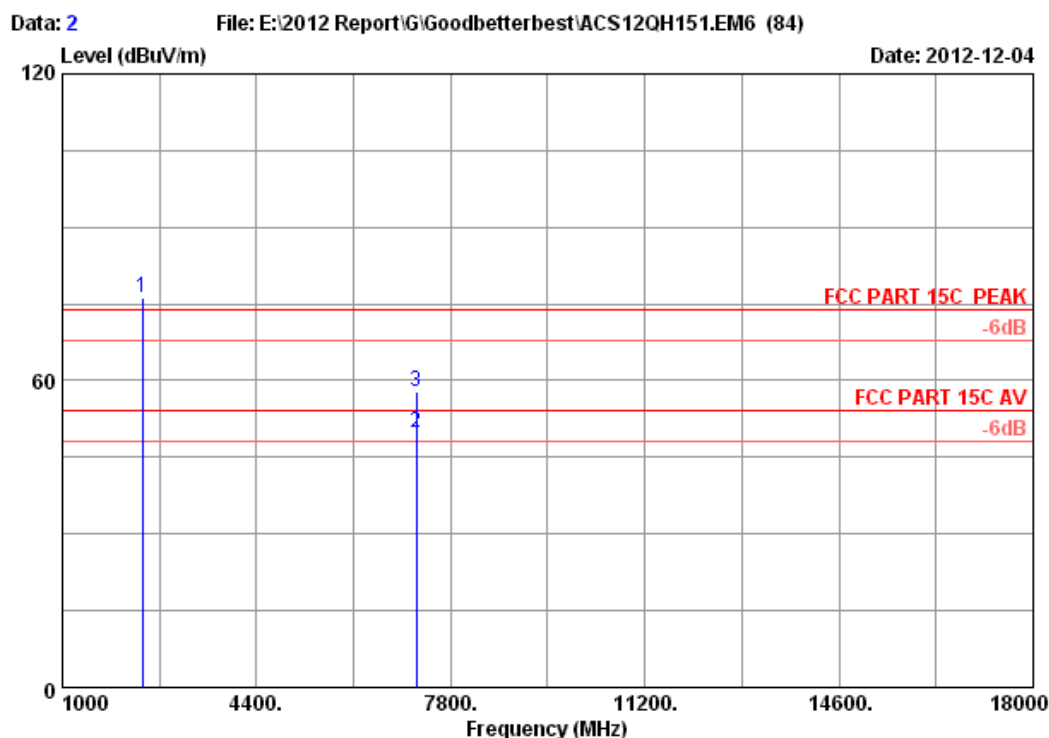
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	44.550	11.02	0.57	15.75	27.34	40.00	12.66	QP
2	199.750	9.35	1.06	21.38	31.79	43.50	11.71	QP
3	481.050	18.26	1.77	9.34	29.37	46.00	16.63	QP
4	575.140	20.10	2.05	7.45	29.60	46.00	16.40	QP
5	623.640	20.62	2.19	5.08	27.89	46.00	18.11	QP
6	999.030	24.97	2.91	5.84	33.72	54.00	20.28	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.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Tony-Yan
EUT	: GC-2 wireless Controller		
Power supply	: DC 5V From PS3 Input AC 120V/60Hz		
Test mode	: 8-DPSK 2402MHz Tx Mode		
M/N	: GC2PS3-11		

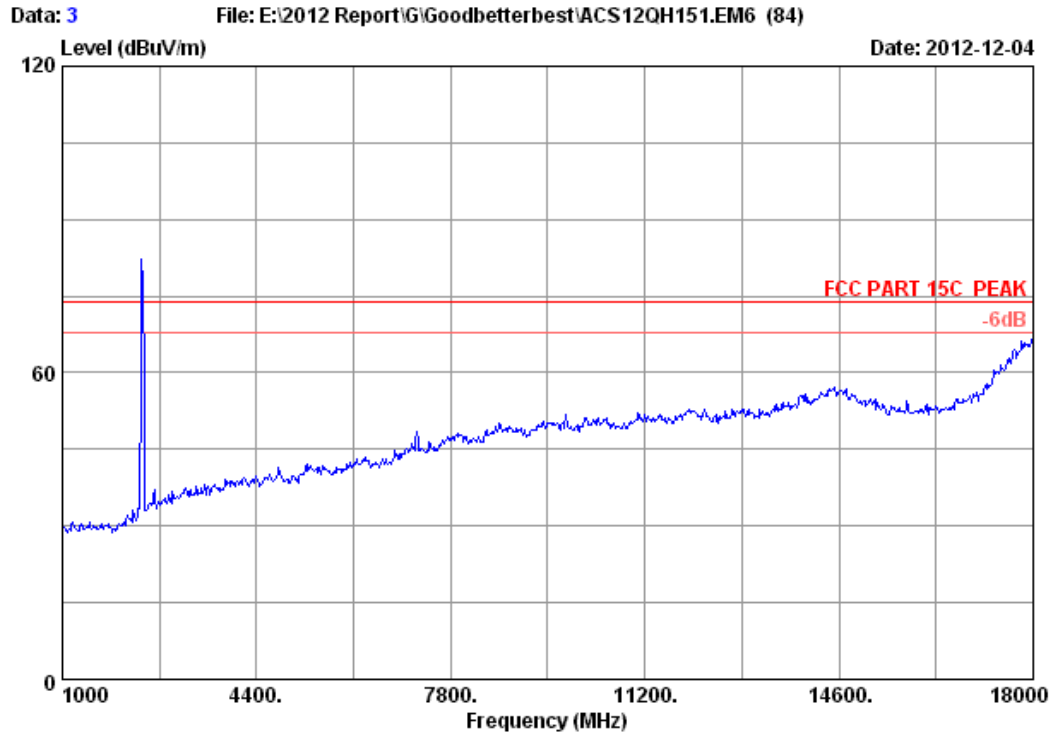


Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : 8-DPSK 2402MHz Tx Mode
 M/N : GC2PS3-11

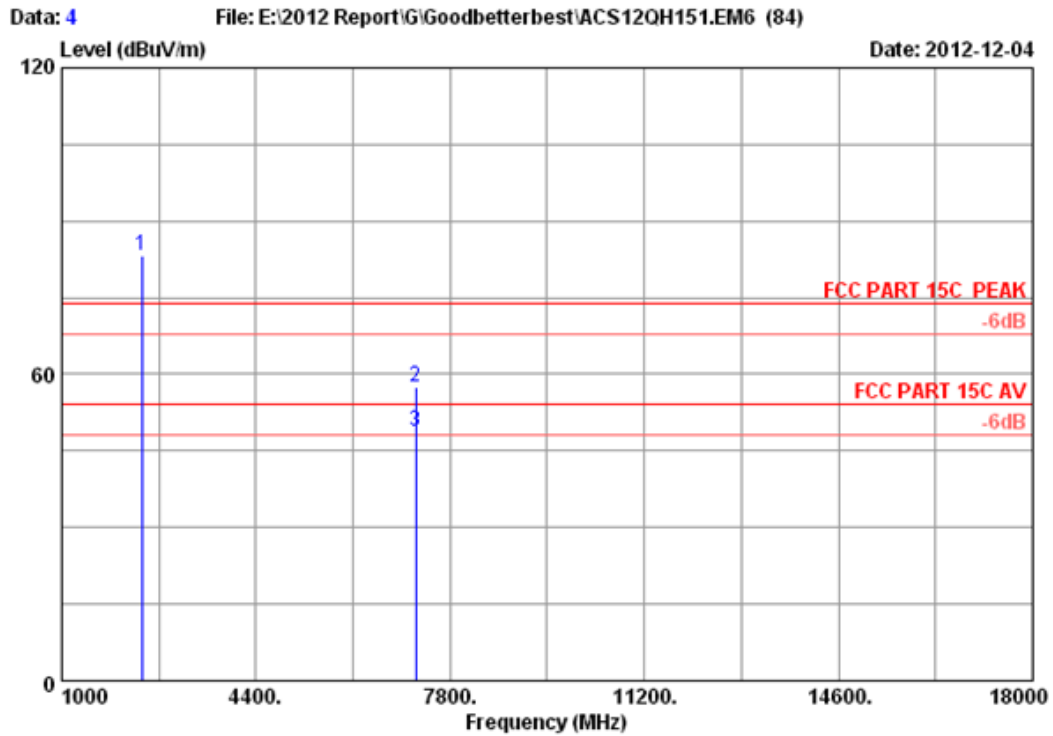
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	26.77	6.02	35.92	79.31	76.18	74.00	-2.18	Peak
2	7206.000	35.44	10.74	35.00	38.57	49.75	54.00	4.25	Average
3	7206.000	35.44	10.74	35.00	46.60	57.78	74.00	16.22	Peak

Remarks:

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



Site no.	: 3m Chamber	Data no.	: 3
Dis. / Ant.	: 3m 2012 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Tony-Yan
EUT	: GC-2 wireless Controller		
Power supply	: DC 5V From PS3 Input AC 120V/60Hz		
Test mode	: 8-DPSK 2402MHz Tx Mode		
M/N	: GC2PS3-11		

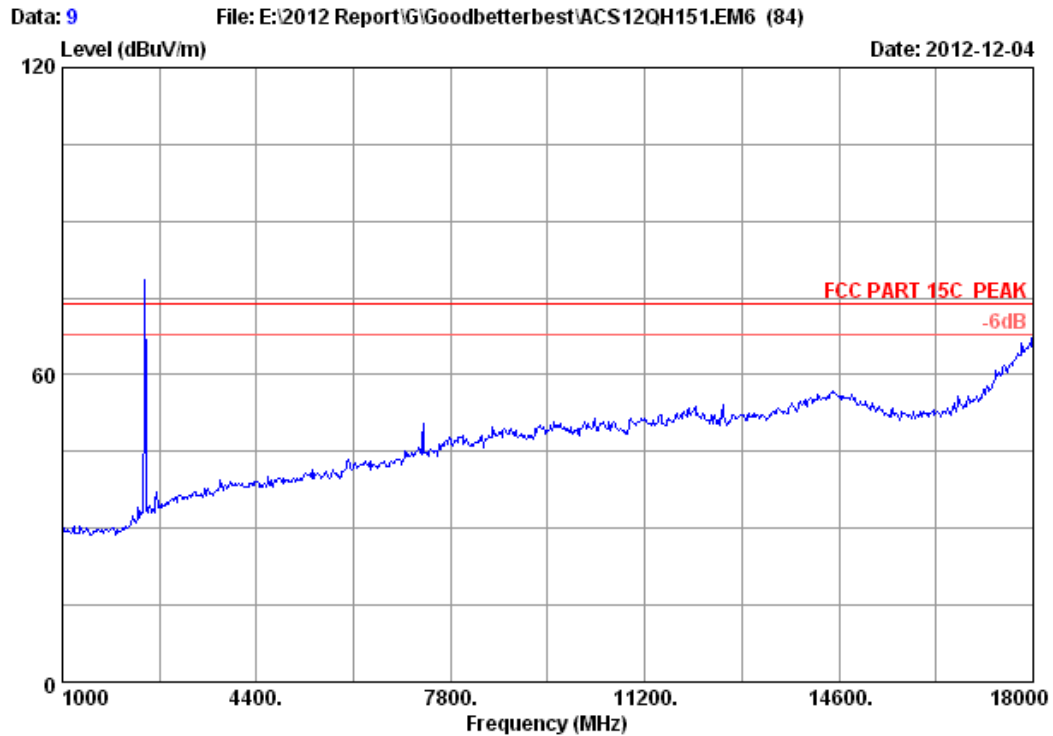


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : 8-DPSK 2402MHz Tx Mode
 M/N : GC2PS3-11

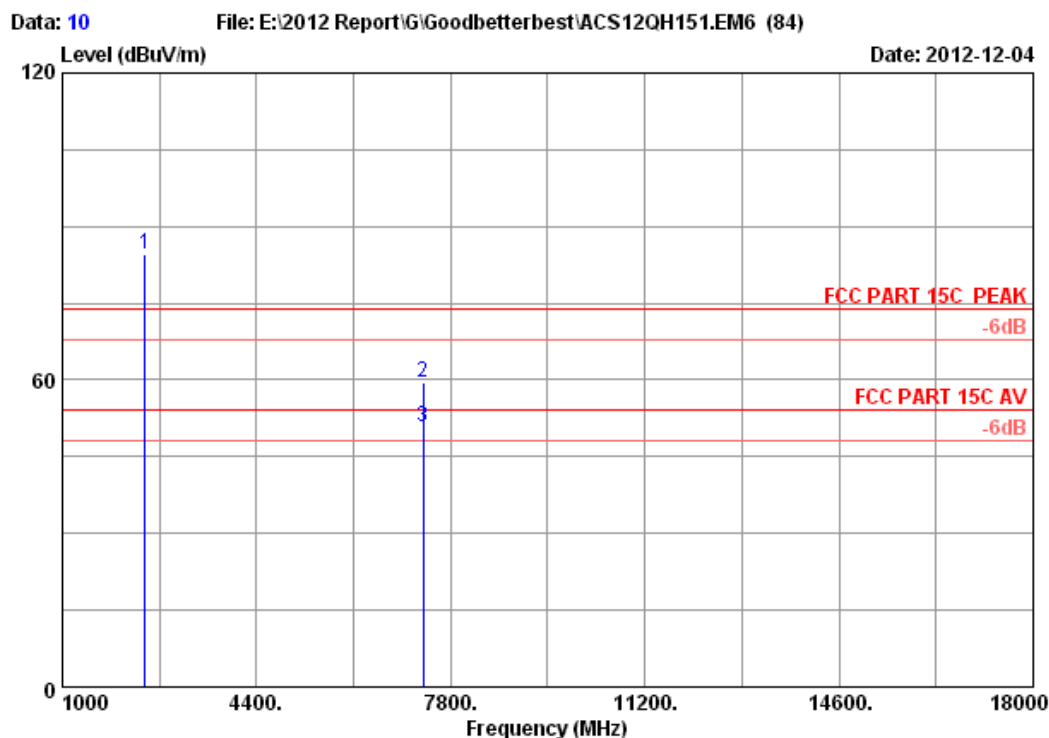
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	26.77	6.02	35.92	86.24	83.11	74.00	-9.11	Peak
2	7206.000	35.44	10.74	35.00	46.46	57.64	74.00	16.36	Peak
3	7206.000	35.44	10.74	35.00	37.55	48.73	54.00	5.27	Average

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.	: 9
Dis. / Ant.	: 3m 2012 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Tony-Yan
EUT	: GC-2 wireless Controller		
Power supply	: DC 5V From PS3 Input AC 120V/60Hz		
Test mode	: 8-DPSK 2441MHz Tx Mode		
M/N	: GC2PS3-11		

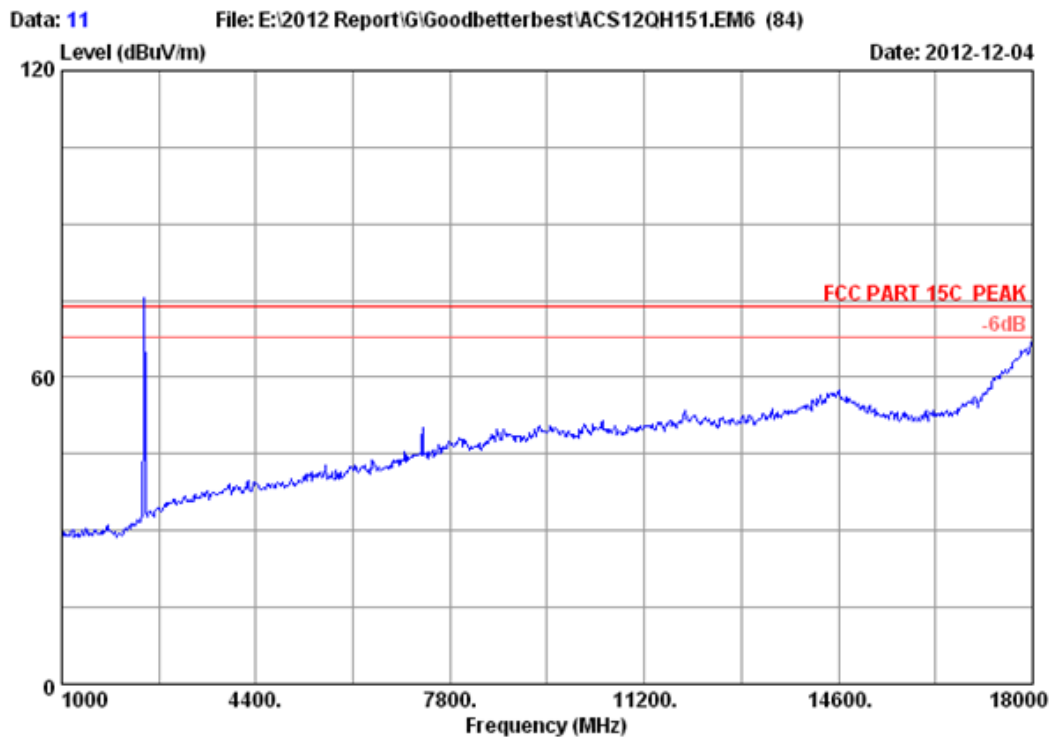


Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : 8-DPSK 2441MHz Tx Mode
 M/N : GC2PS3-11

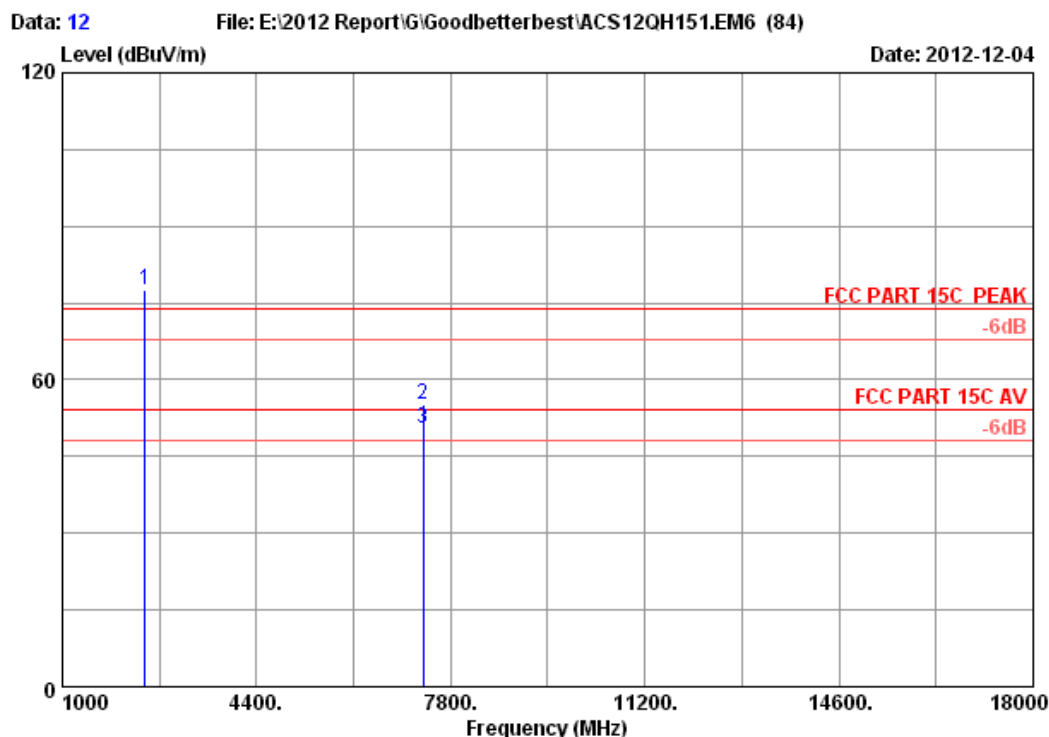
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.070	27.02	6.09	35.92	87.34	84.53	74.00	-10.53	Peak
2	7323.000	35.74	10.80	34.97	47.82	59.39	74.00	14.61	Peak
3	7323.000	35.74	10.80	34.97	39.17	50.74	54.00	3.26	Average

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.	: 11
Dis. / Ant.	: 3m 2012 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Tony-Yan
EUT	: GC-2 wireless Controller		
Power supply	: DC 5V From PS3 Input AC 120V/60Hz		
Test mode	: 8-DPSK 2441MHz Tx Mode		
M/N	: GC2PS3-11		

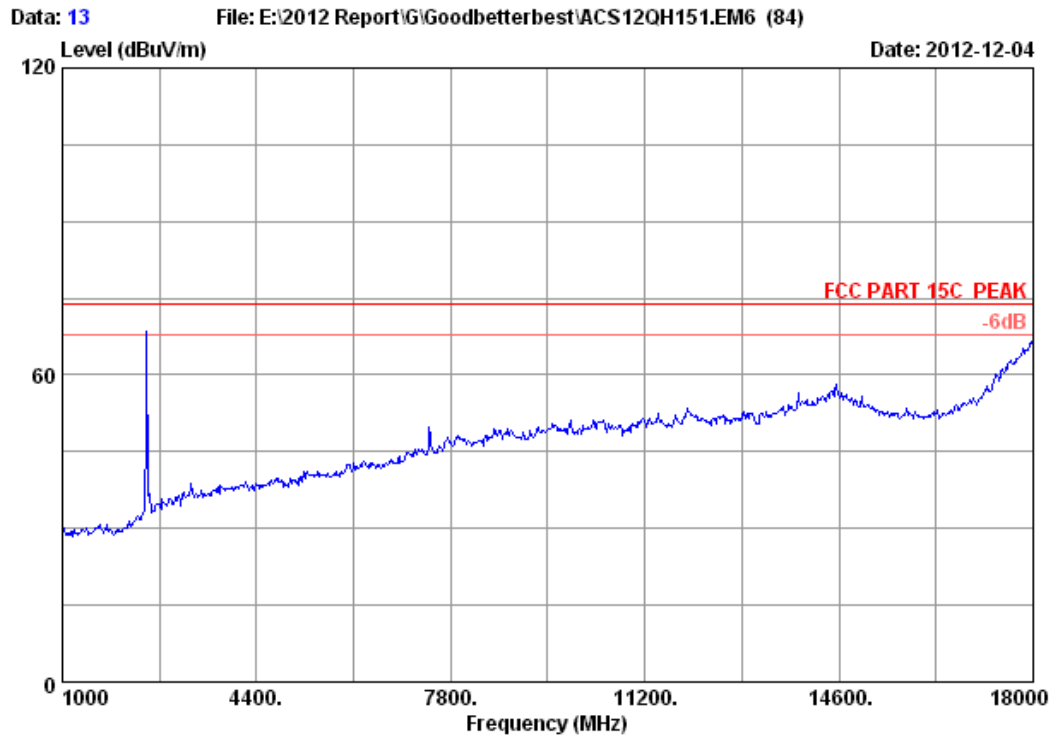


Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : 8-DPSK 2441MHz Tx Mode
 M/N : GC2PS3-11

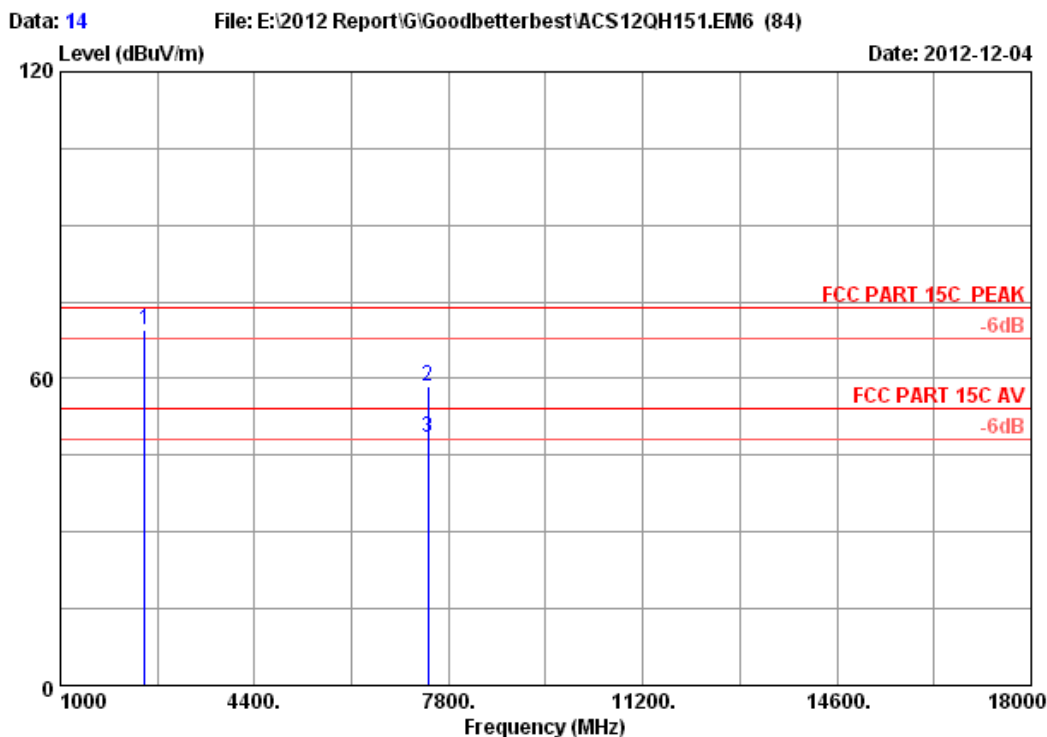
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	27.02	6.09	35.92	80.43	77.62	74.00	-3.62	Peak
2	7323.000	35.74	10.80	34.97	43.52	55.09	74.00	18.91	Peak
3	7323.000	35.74	10.80	34.97	38.81	50.38	54.00	3.62	Average

Remarks:

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



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	: Tony-Yan
EUT	: GC-2 wireless Controller		
Power supply	: DC 5V From PS3 Input AC 120V/60Hz		
Test mode	: 8-DPSK 2480MHz Tx Mode		
M/N	: GC2PS3-11		

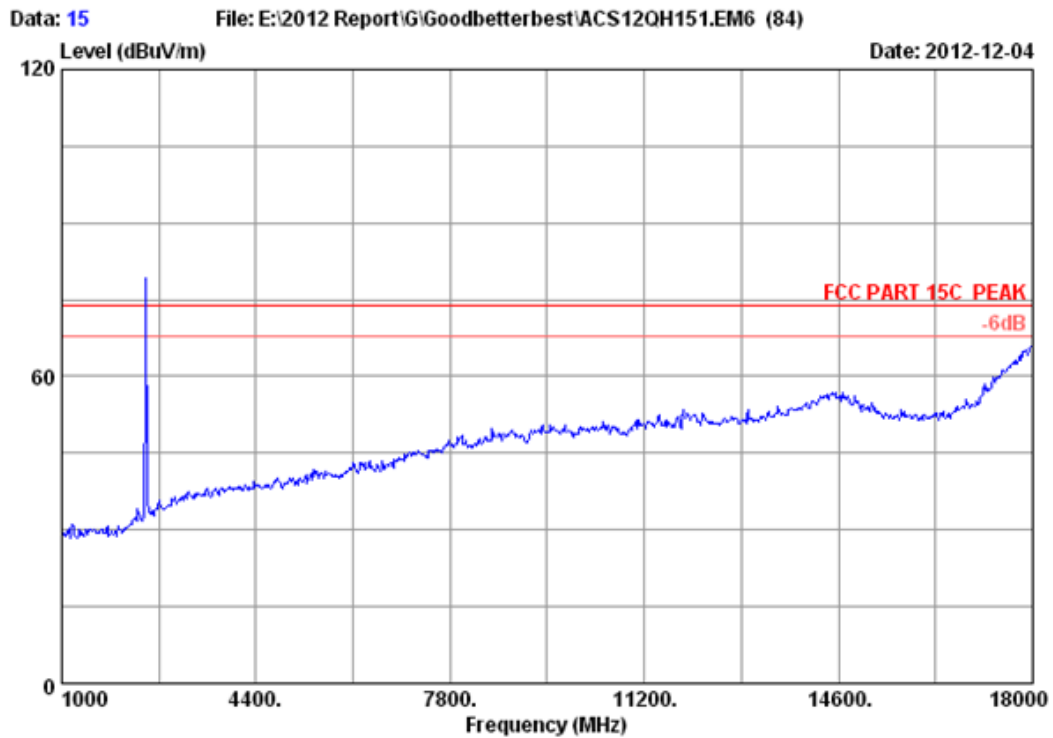


Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : 8-DPSK 2480MHz Tx Mode
 M/N : GC2PS3-11

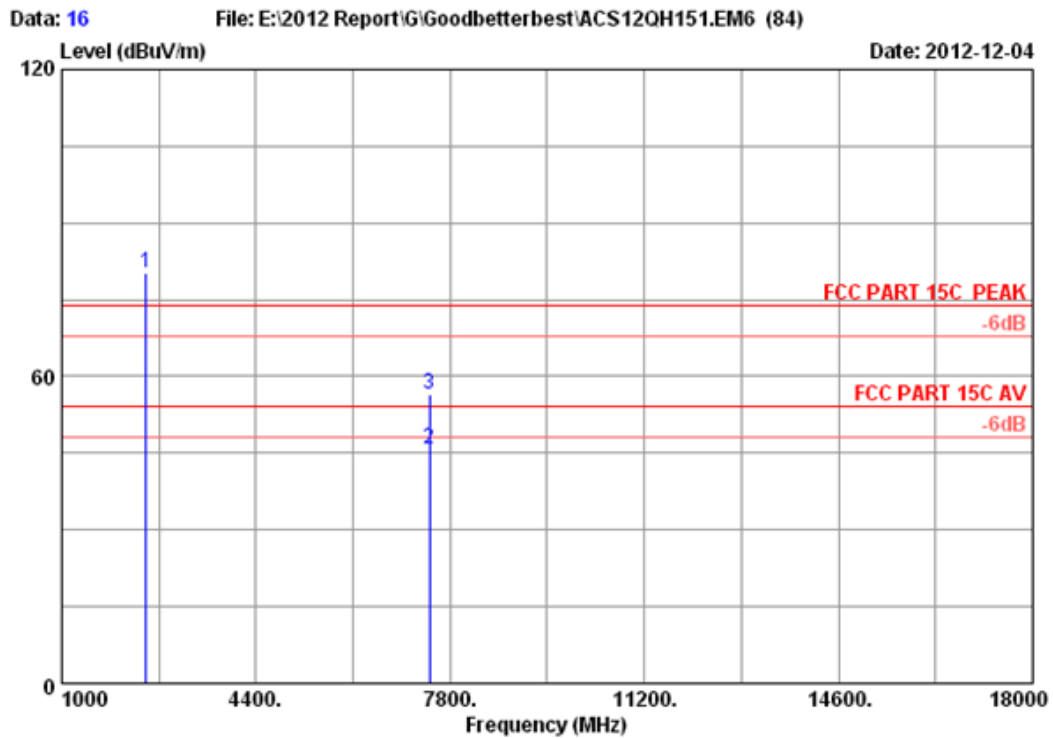
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	27.27	6.15	35.92	72.06	69.56	74.00	4.44	Peak
2	7440.000	36.04	10.85	34.94	46.67	58.62	74.00	15.38	Peak
3	7440.000	36.04	10.85	34.94	36.58	48.53	54.00	5.47	Average

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 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	: Tony-Yan
EUT	: GC-2 wireless Controller		
Power supply	: DC 5V From PS3 Input AC 120V/60Hz		
Test mode	: 8-DPSK 2480MHz Tx Mode		
M/N	: GC2PS3-11		

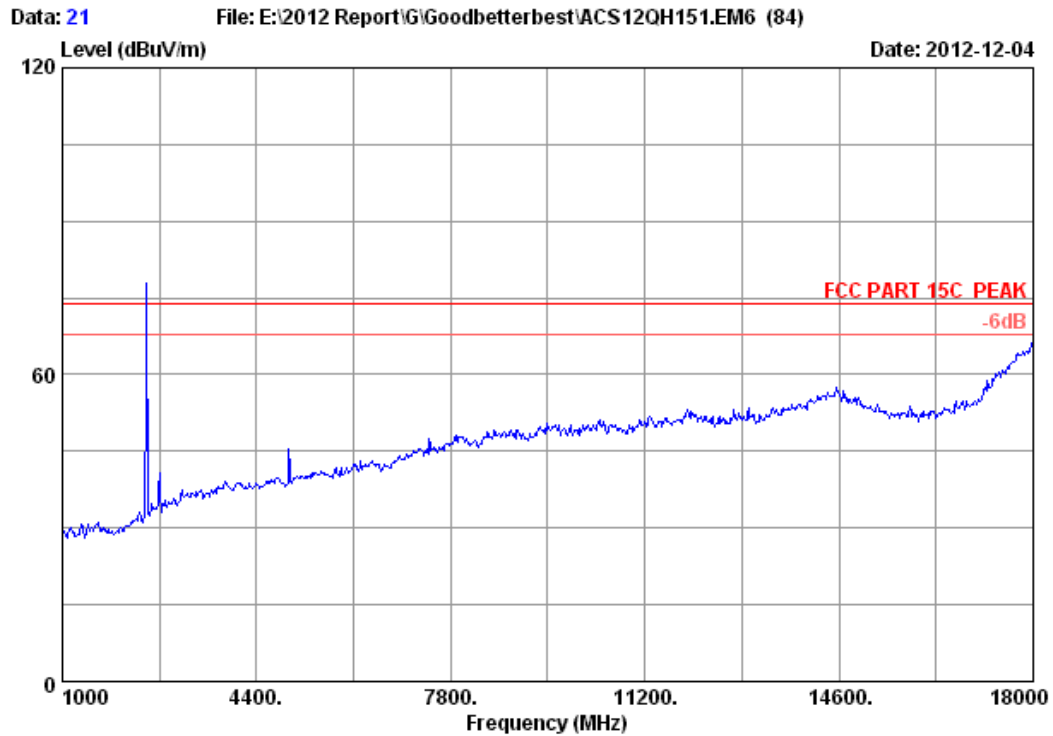


Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : 8-DPSK 2480MHz Tx Mode
 M/N : GC2PS3-11

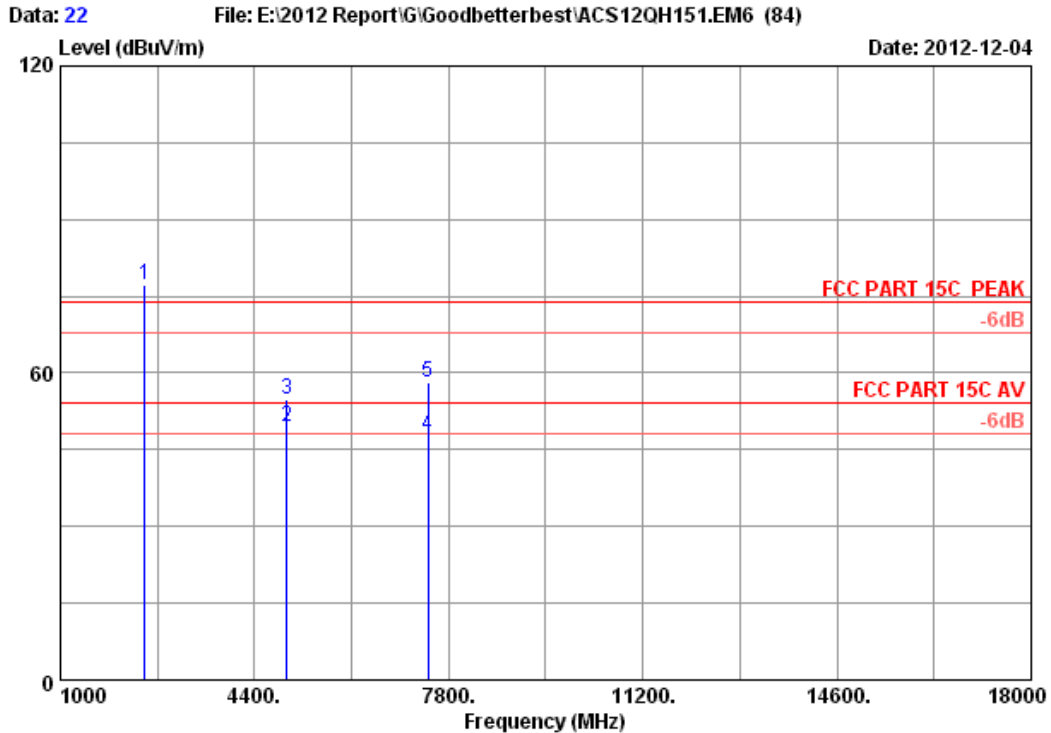
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	27.27	6.15	35.92	82.82	80.32	74.00	-6.32	Peak
2	7440.000	36.04	10.85	34.94	33.89	45.84	54.00	8.16	Average
3	7440.000	36.04	10.85	34.94	44.39	56.34	74.00	17.66	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.	: 21
Dis. / Ant.	: 3m 2012 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Tony-Yan
EUT	: GC-2 wireless Controller		
Power supply	: DC 5V From PS3 Input AC 120V/60Hz		
Test mode	: GFSK 2480MHz Tx Mode		
M/N	: GC2PS3-11		

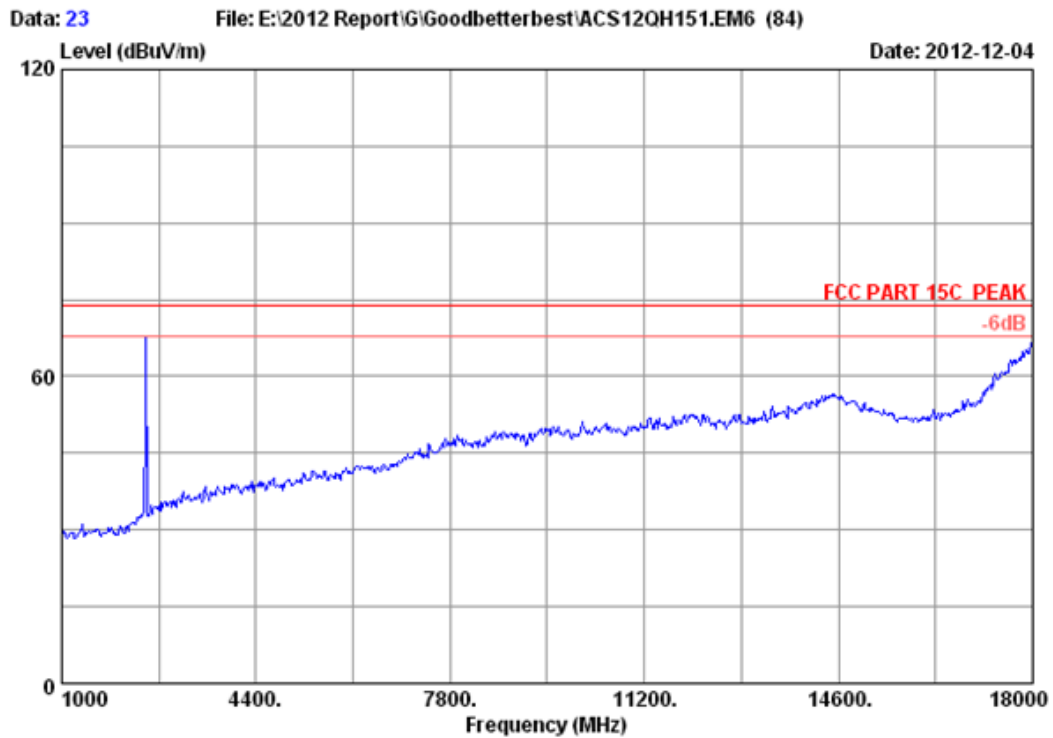


Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : GFSK 2480MHz Tx Mode
 M/N : GC2PS3-11

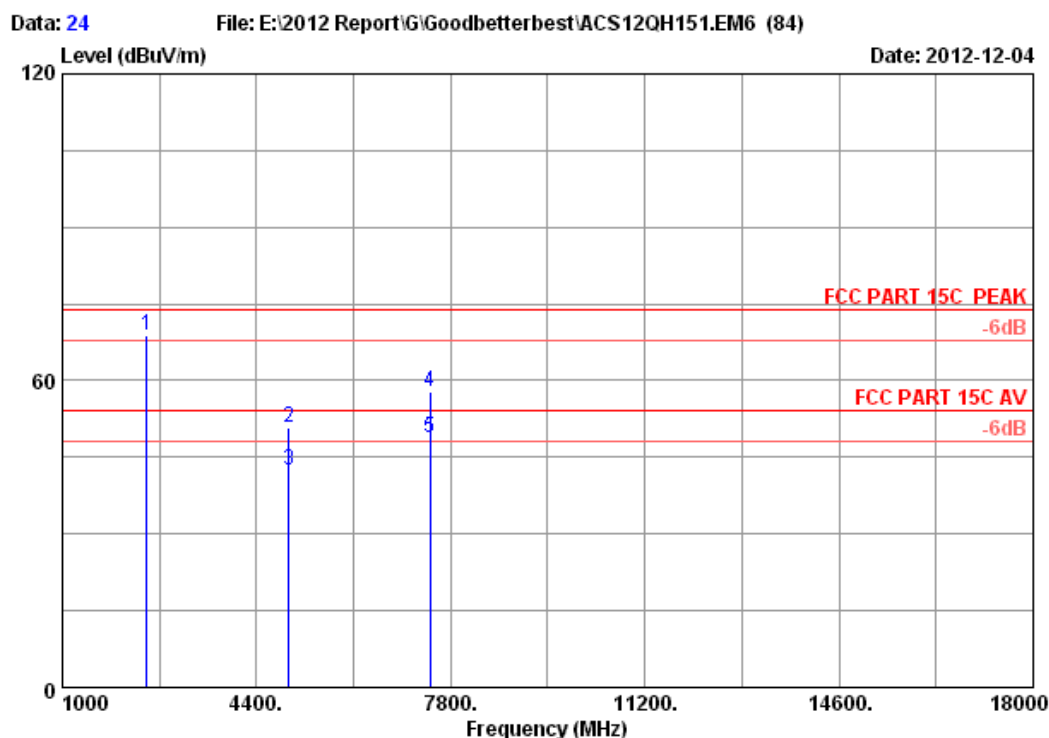
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	27.27	6.15	35.92	79.87	77.37	74.00	-3.37	Peak
2	4960.000	32.81	8.81	35.66	43.65	49.61	54.00	4.39	Average
3	4960.000	32.81	8.81	35.66	48.76	54.72	74.00	19.28	Peak
4	7440.000	36.04	10.85	34.94	36.00	47.95	54.00	6.05	Average
5	7440.000	36.04	10.85	34.94	46.07	58.02	74.00	15.98	Peak

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 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.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Tony-Yan
EUT	: GC-2 wireless Controller		
Power supply	: DC 5V From PS3 Input AC 120V/60Hz		
Test mode	: GFSK 2480MHz Tx Mode		
M/N	: GC2PS3-11		

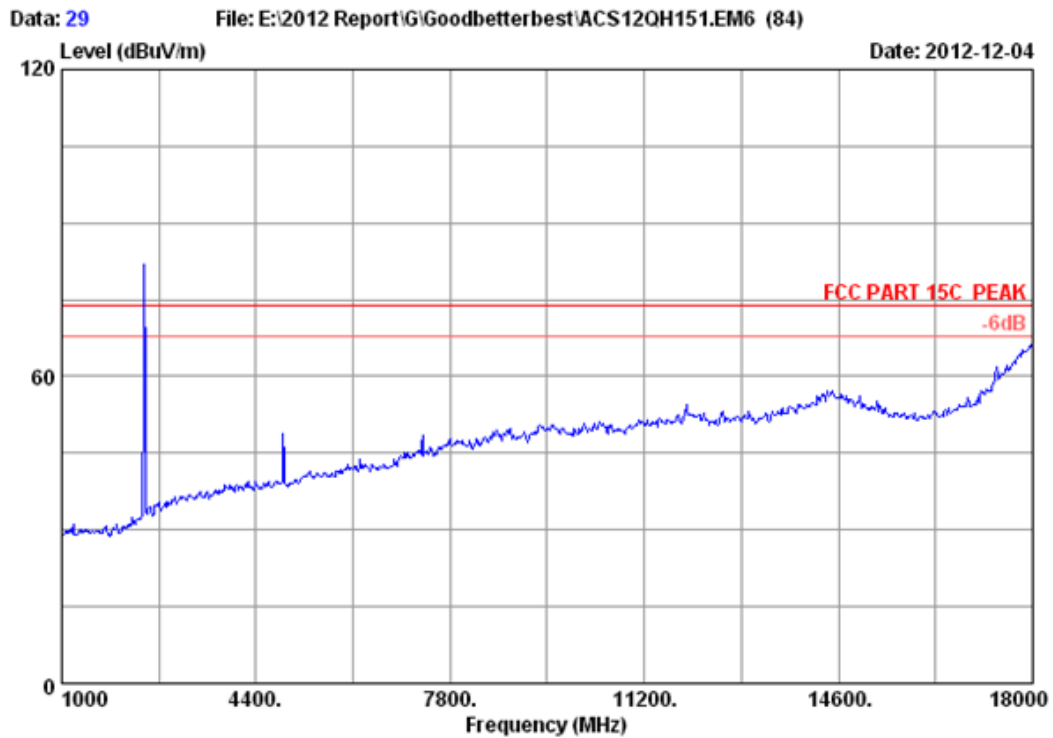


Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : GFSK 2480MHz Tx Mode
 M/N : GC2PS3-11

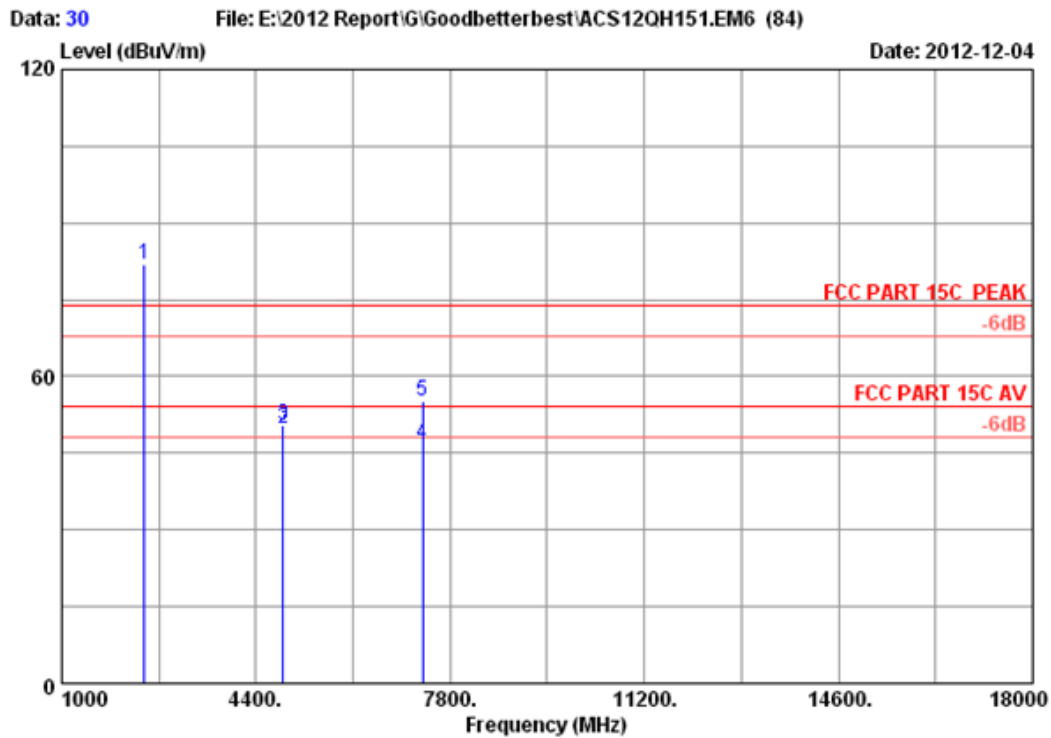
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	27.27	6.15	35.92	71.33	68.83	74.00	5.17	Peak
2	4960.000	32.81	8.81	35.66	44.84	50.80	74.00	23.20	Peak
3	4960.000	32.81	8.81	35.66	36.34	42.30	54.00	11.70	Average
4	7440.000	36.04	10.85	34.94	45.89	57.84	74.00	16.16	Peak
5	7440.000	36.04	10.85	34.94	36.73	48.68	54.00	5.32	Average

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 2012 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Tony-Yan
EUT	: GC-2 wireless Controller		
Power supply	: DC 5V From PS3 Input AC 120V/60Hz		
Test mode	: GFSK 2441MHz Tx Mode		
M/N	: GC2PS3-11		

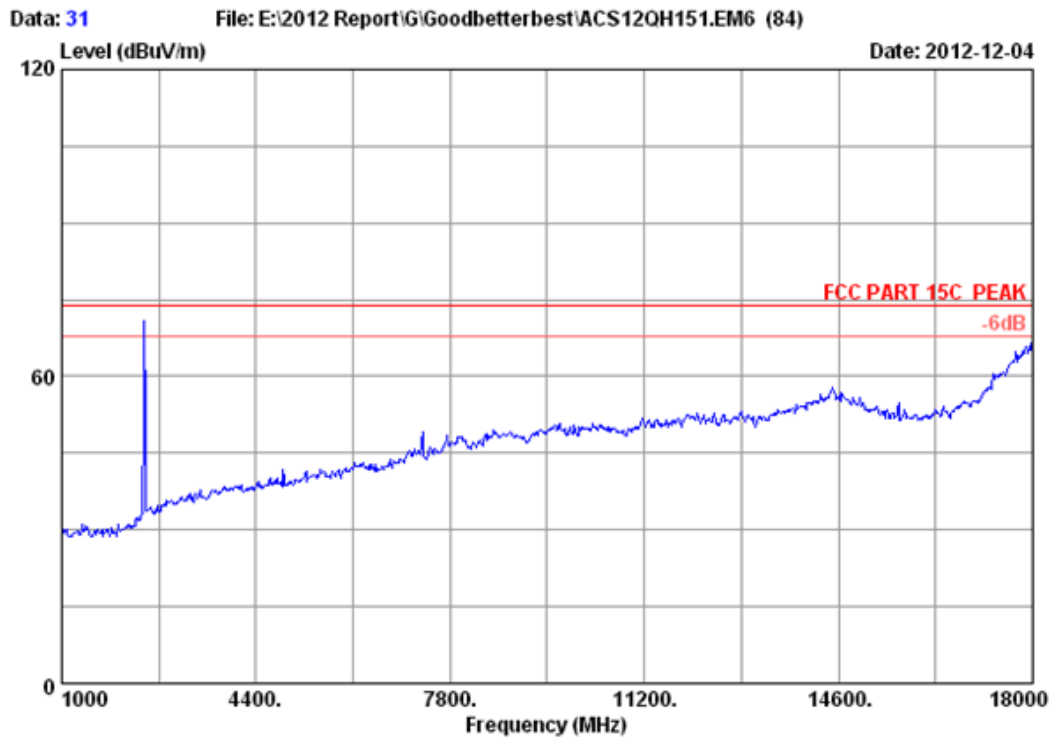


Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : GFSK 2441MHz Tx Mode
 M/N : GC2PS3-11

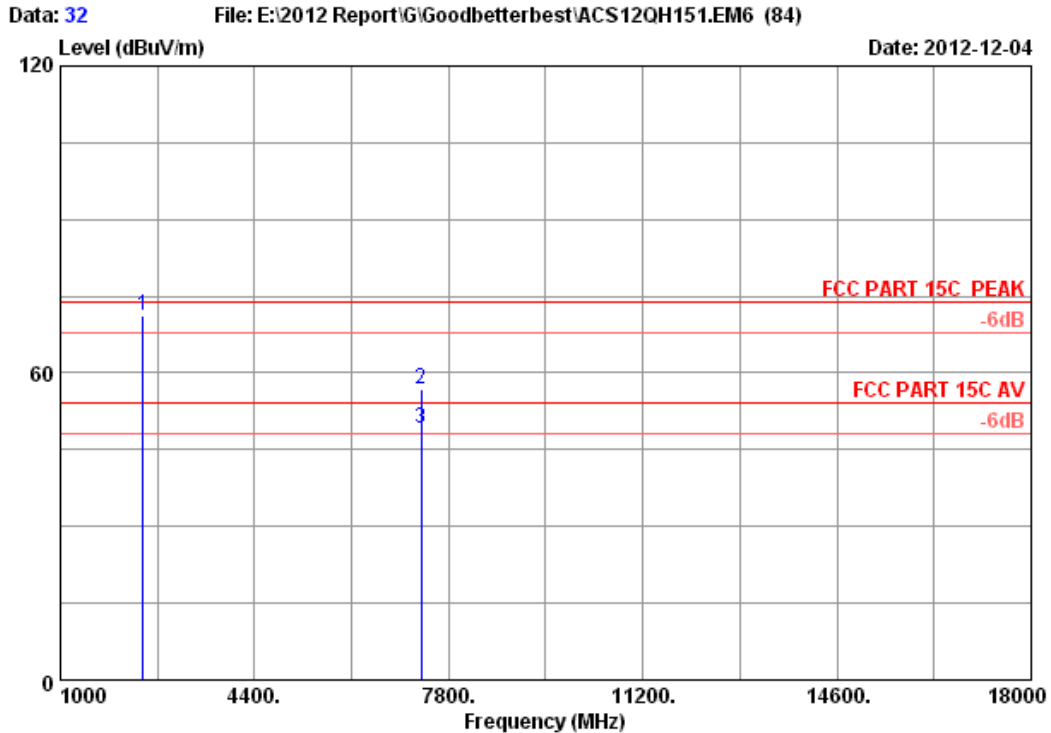
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	27.02	6.09	35.92	84.65	81.84	74.00	-7.84	Peak
2	4882.000	32.64	8.74	35.69	43.99	49.68	74.00	24.32	Peak
3	4882.000	32.64	8.74	35.69	44.86	50.55	54.00	3.45	Average
4	7323.000	35.74	10.80	34.97	35.35	46.92	54.00	7.08	Average
5	7323.000	35.74	10.80	34.97	43.55	55.12	74.00	18.88	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.	: 31
Dis. / Ant.	: 3m 2012 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Tony-Yan
EUT	: GC-2 wireless Controller		
Power supply	: DC 5V From PS3 Input AC 120V/60Hz		
Test mode	: GFSK 2441MHz Tx Mode		
M/N	: GC2PS3-11		

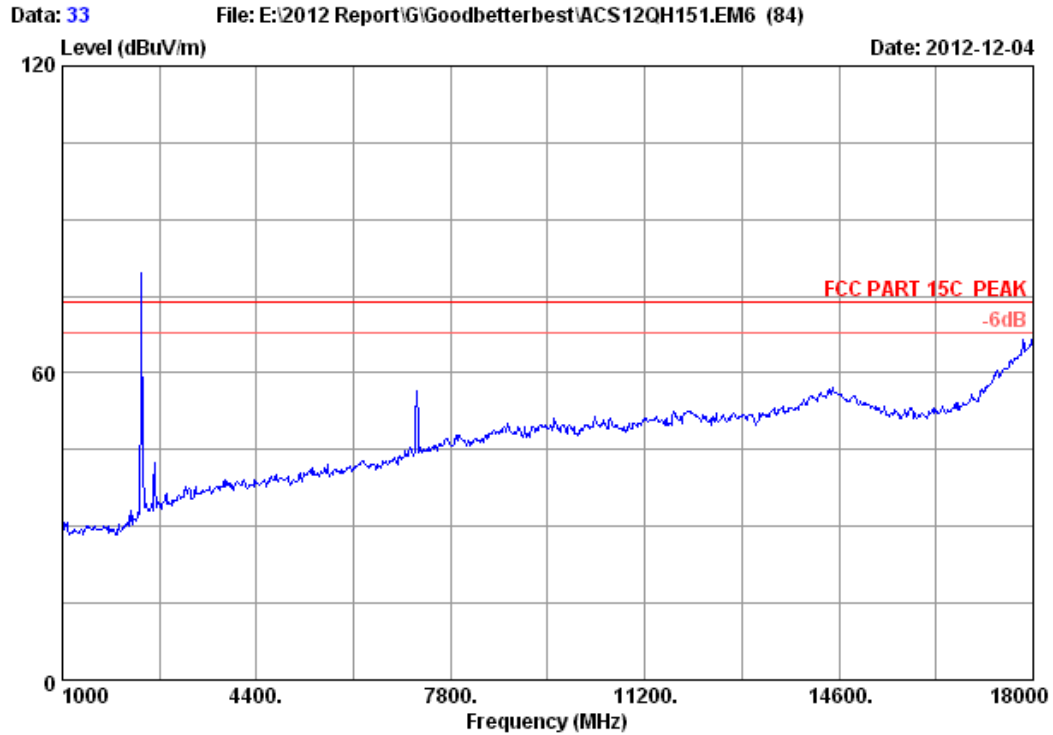


Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : GFSK 2441MHz Tx Mode
 M/N : GC2PS3-11

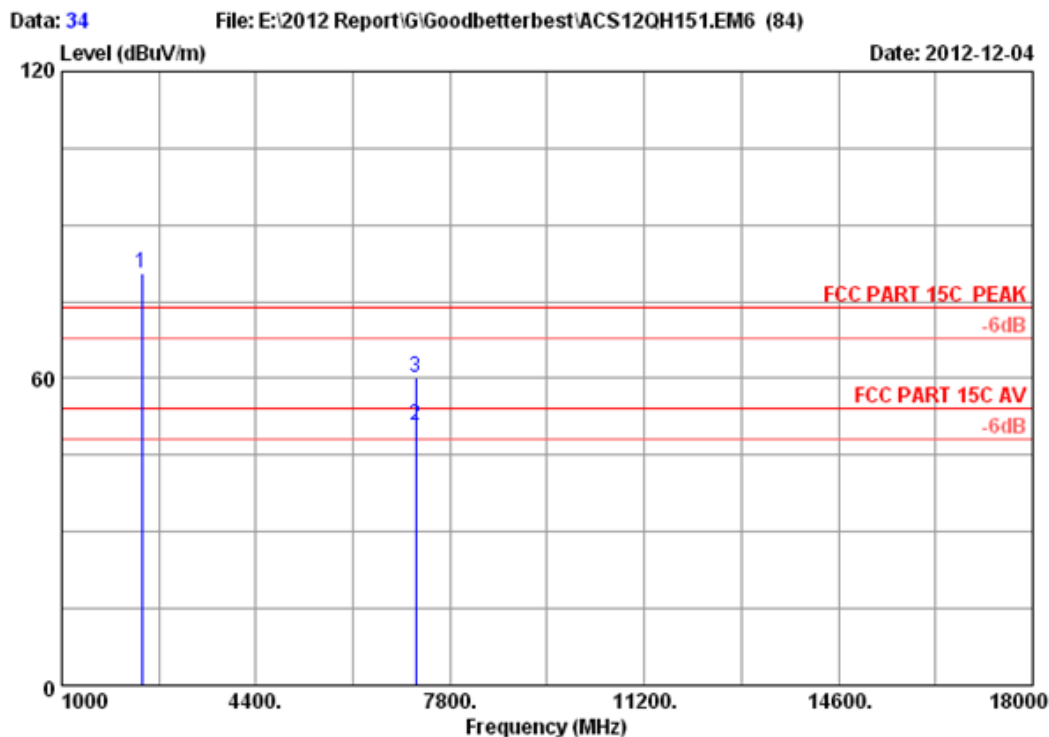
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	27.02	6.09	35.92	73.90	71.09	74.00	2.91	Peak
2	7323.000	35.74	10.80	34.97	45.11	56.68	74.00	17.32	Peak
3	7323.000	35.74	10.80	34.97	37.60	49.17	54.00	4.83	Average

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.	: 33
Dis. / Ant.	: 3m 2012 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Tony-Yan
EUT	: GC-2 wireless Controller		
Power supply	: DC 5V From PS3 Input AC 120V/60Hz		
Test mode	: GFSK 2402MHz Tx Mode		
M/N	: GC2PS3-11		

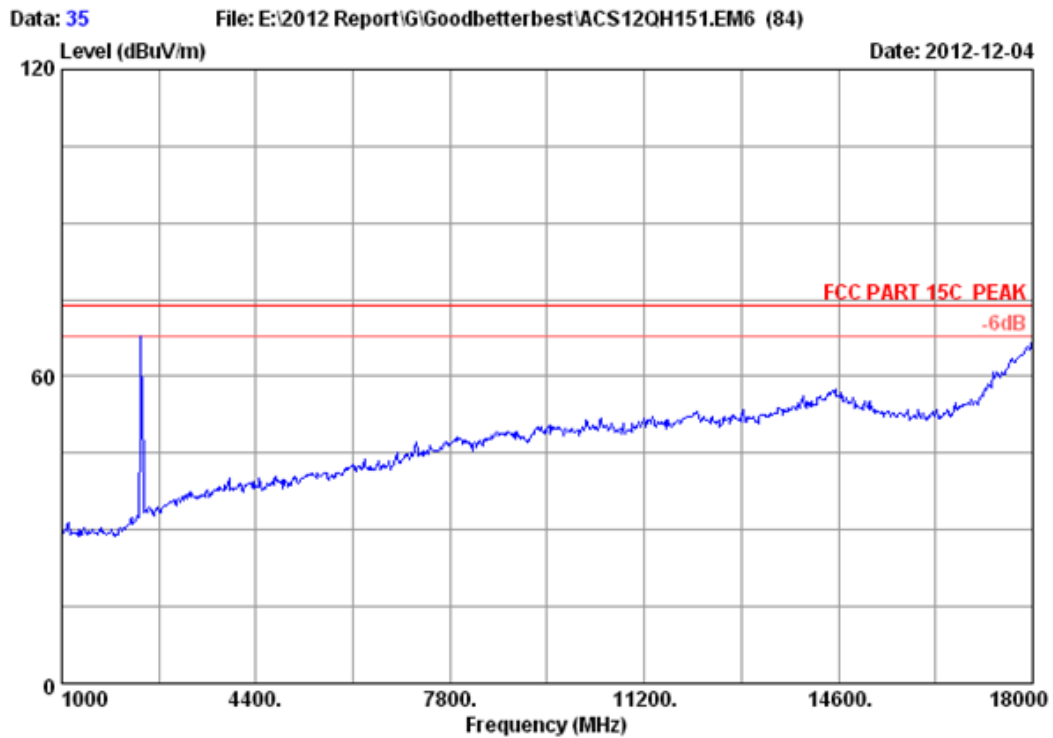


Site no. : 3m Chamber Data no. : 34
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Tony-Yan
EUT : GC-2 wireless Controller
Power supply : DC 5V From PS3 Input AC 120V/60Hz
Test mode : GFSK 2402MHz Tx Mode
M/N : GC2PS3-11

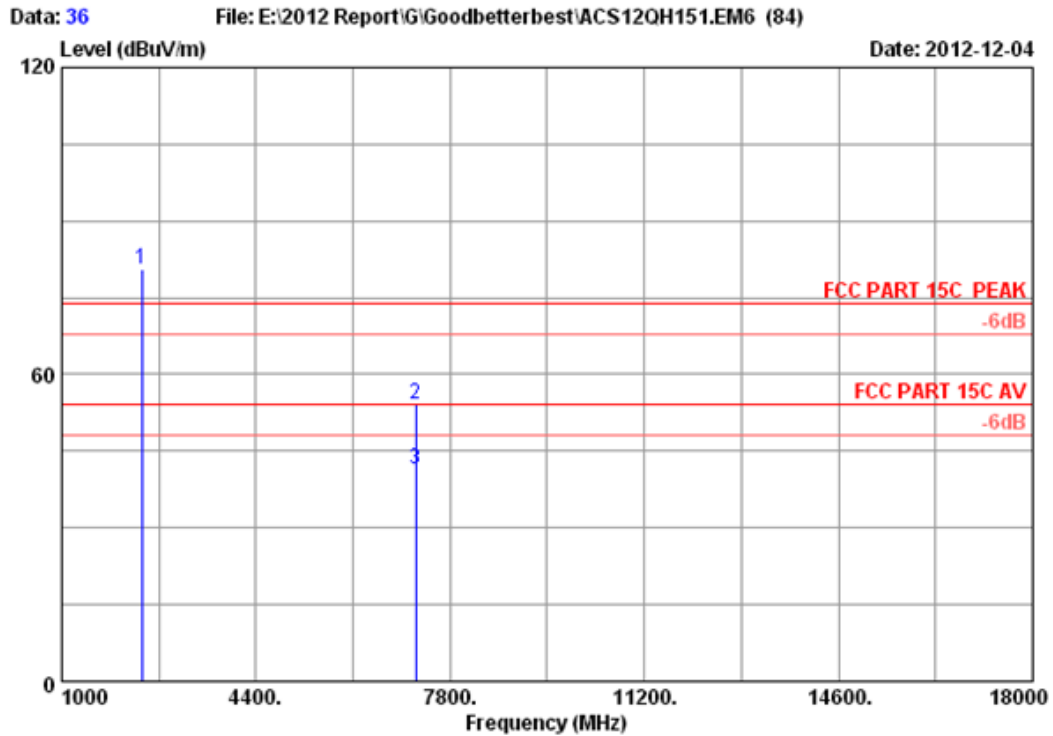
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	26.77	6.02	35.92	83.72	80.59	74.00	-6.59	Peak
2	7206.000	35.44	10.74	35.00	39.70	50.88	54.00	3.12	Average
3	7206.000	35.44	10.74	35.00	48.85	60.03	74.00	13.97	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.	: 35
Dis. / Ant.	: 3m 2012 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Tony-Yan
EUT	: GC-2 wireless Controller		
Power supply	: DC 5V From PS3 Input AC 120V/60Hz		
Test mode	: GFSK 2402MHz Tx Mode		
M/N	: GC2PS3-11		



Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : GFSK 2402MHz Tx Mode
 M/N : GC2PS3-11

	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	6.02	35.92	83.76	80.63	74.00	-6.63	Peak
2	7206.000	35.44	10.74	35.00	42.92	54.10	74.00	19.90	Peak
3	7206.000	35.44	10.74	35.00	30.20	41.38	54.00	12.62	Average

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.

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 12	1 Year
3.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year

5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is 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.

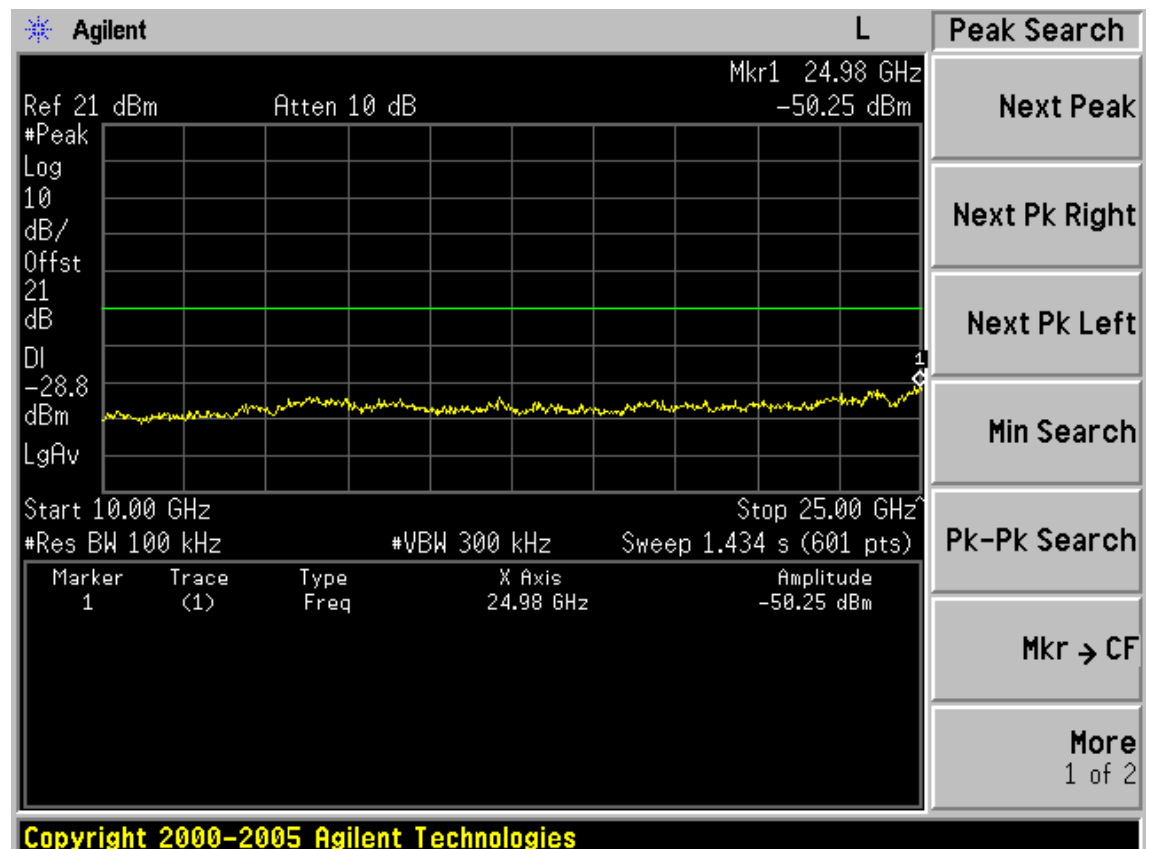
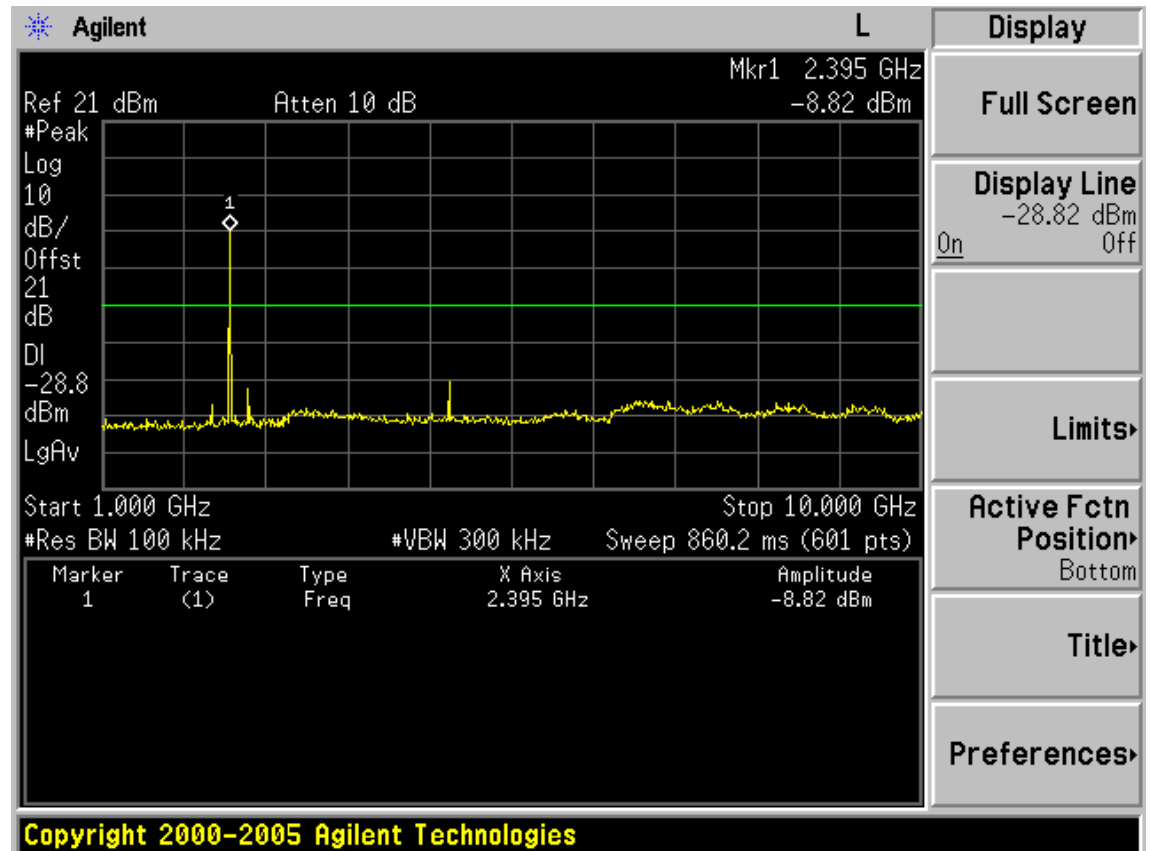
5.4. Test result

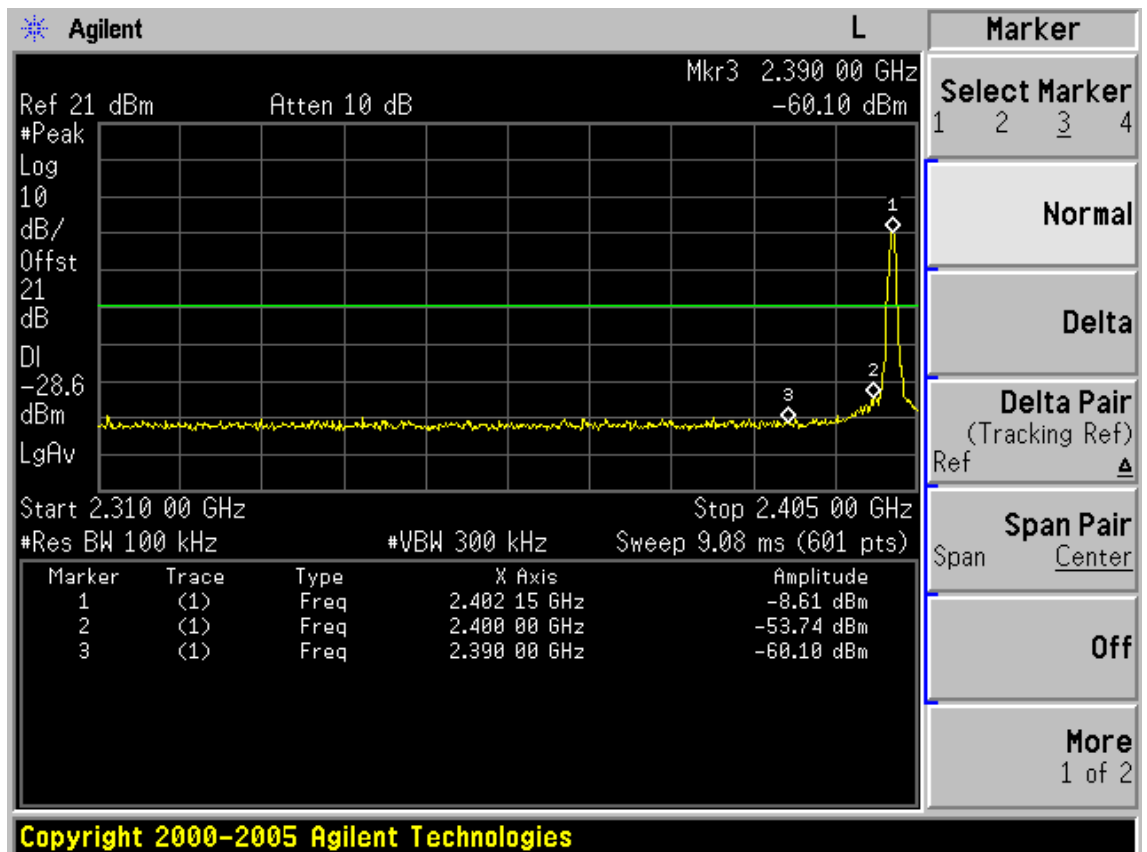
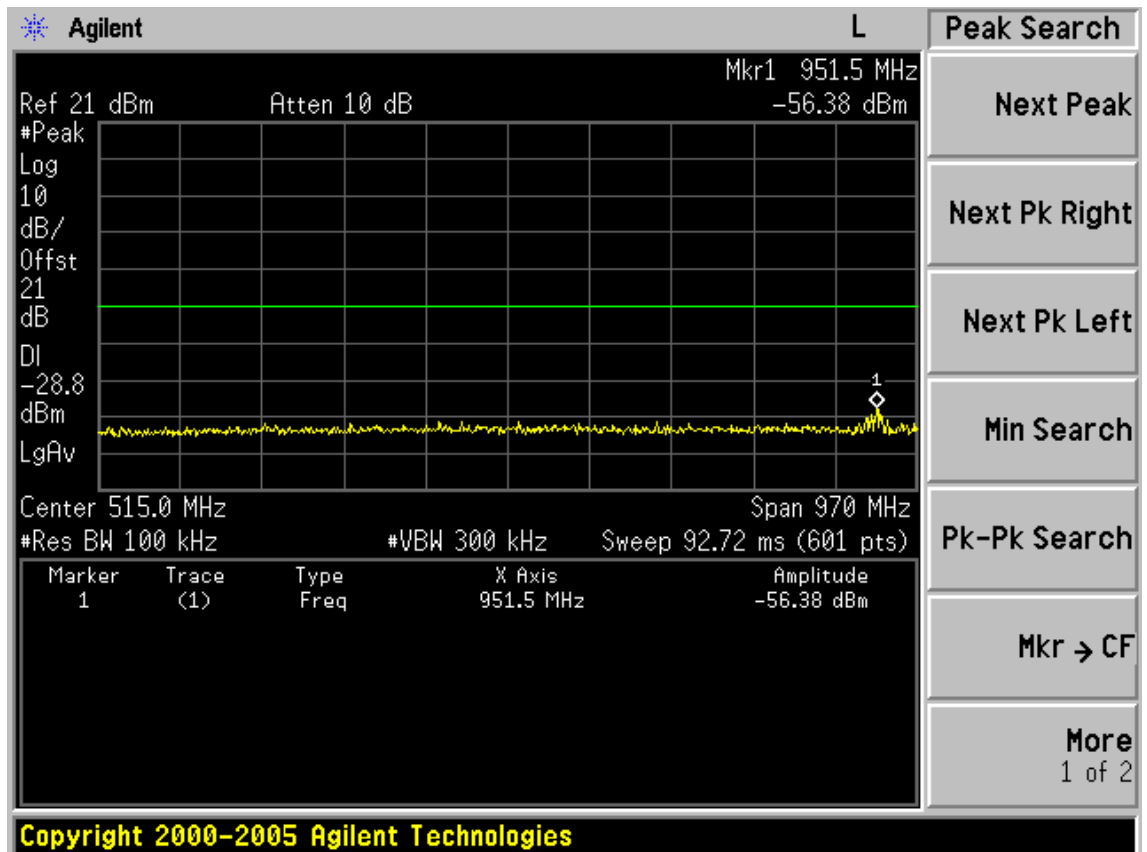
PASS (The testing data was attached in the next pages.)

Hopping off

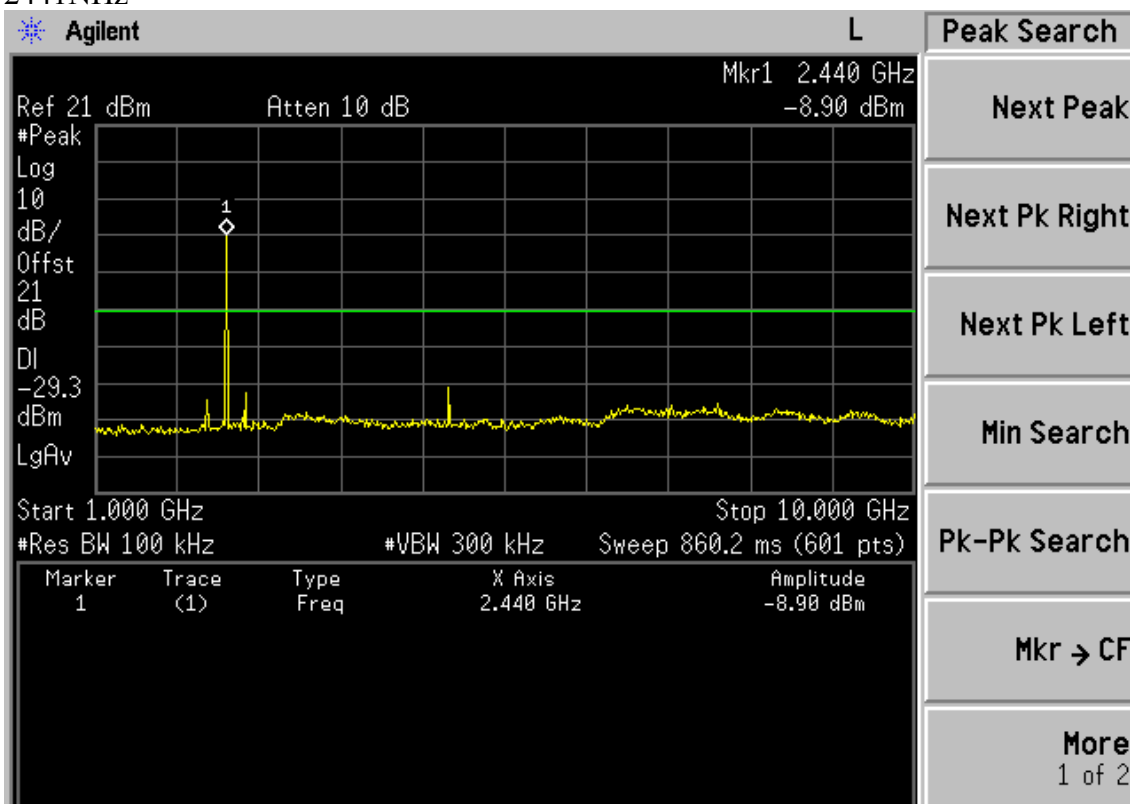
GFSK

2402MHz

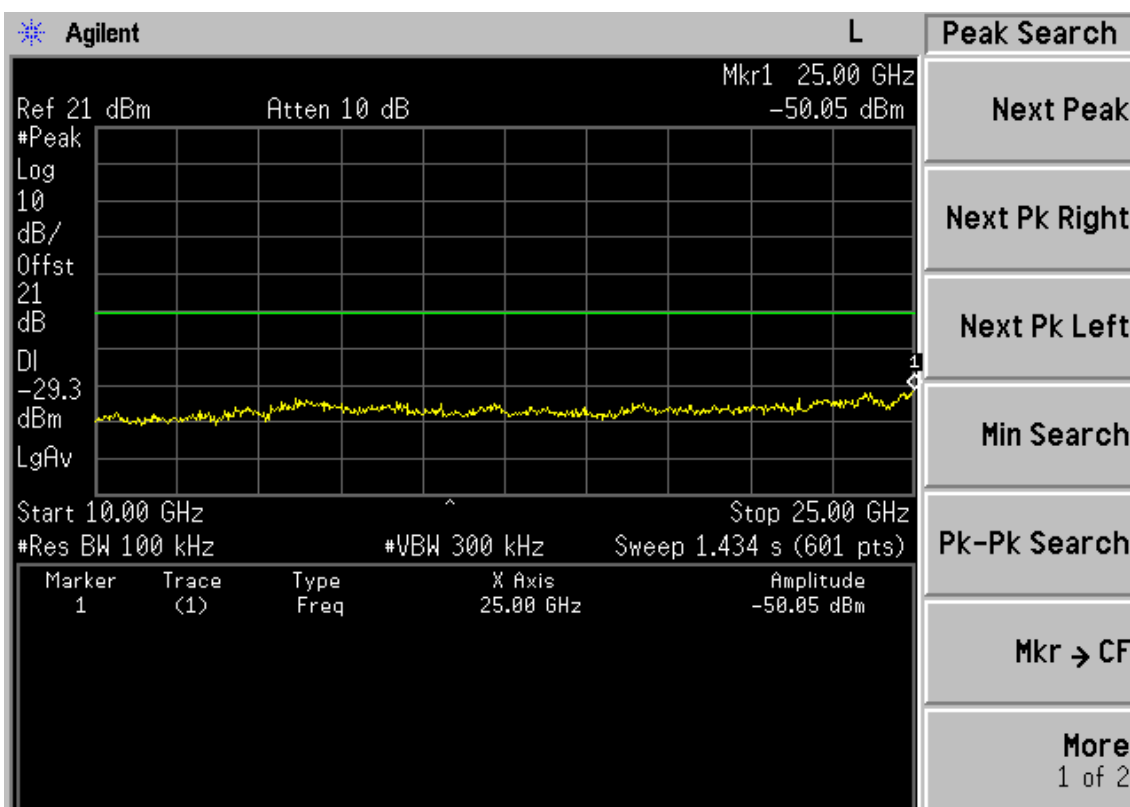




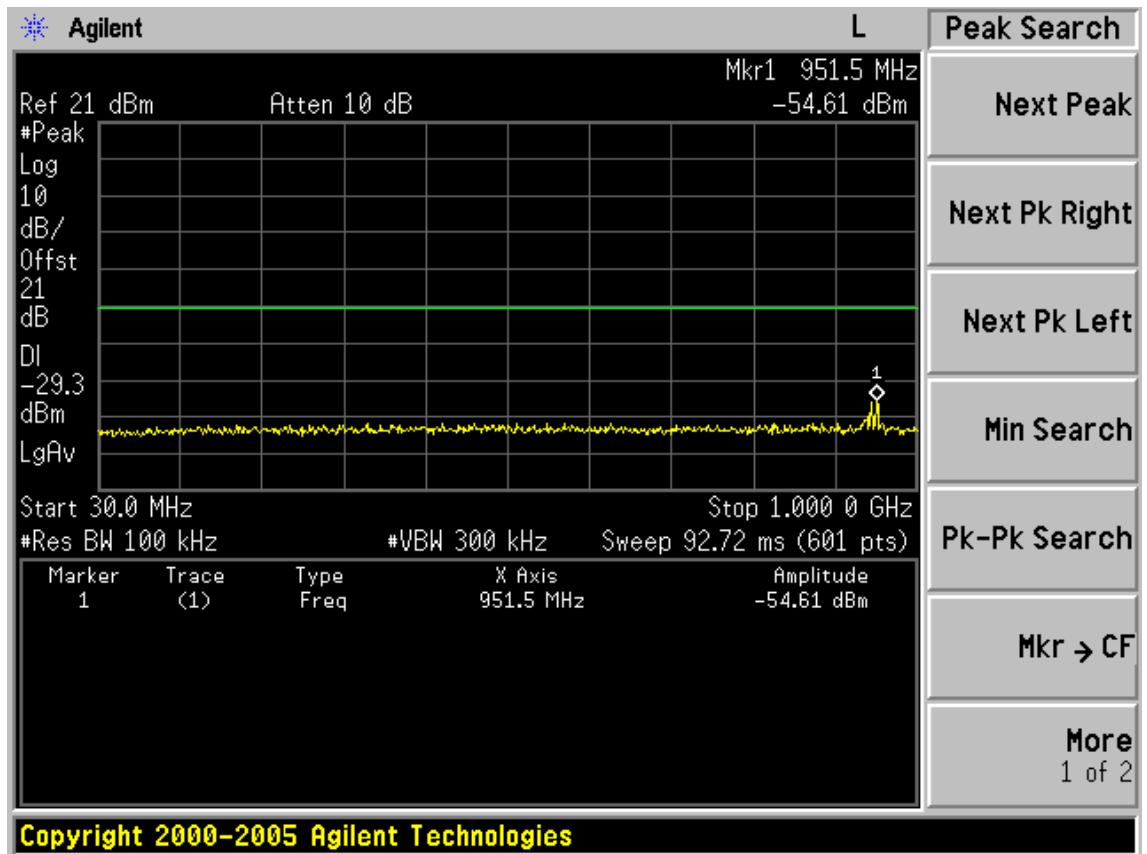
2441MHz



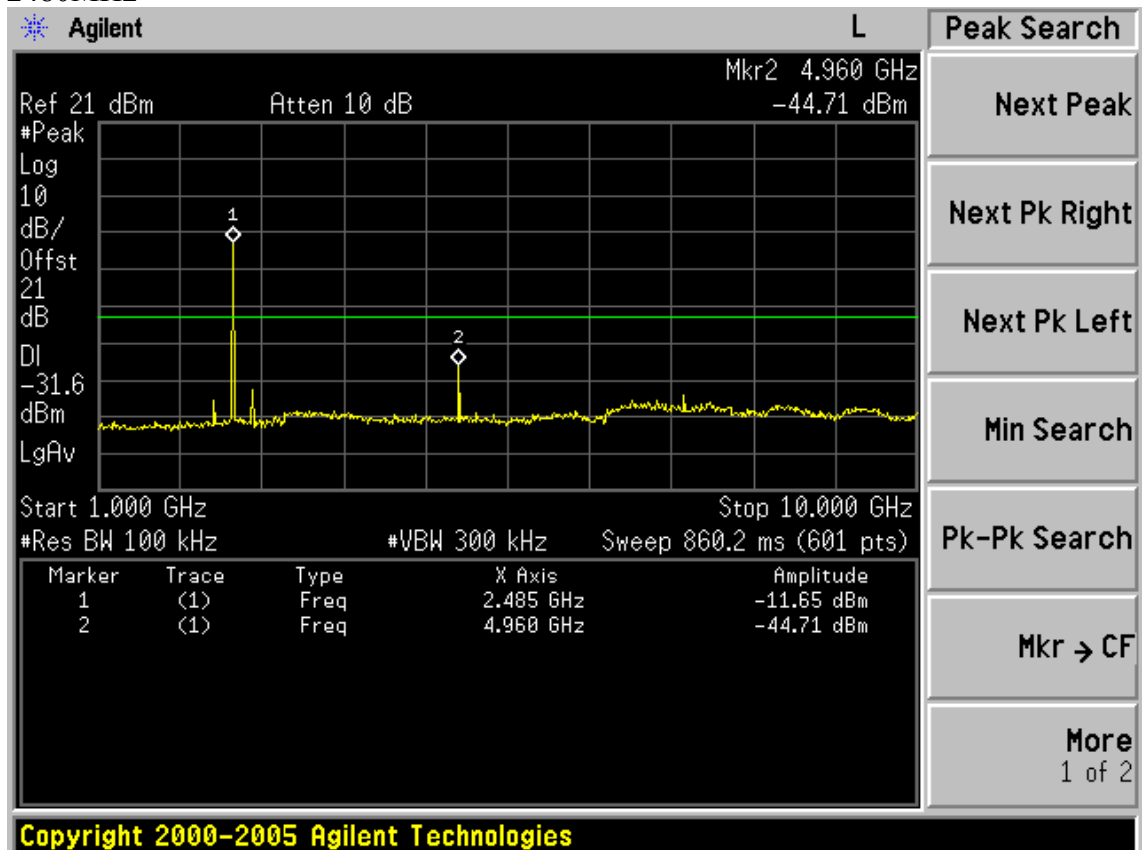
Copyright 2000-2005 Agilent Technologies

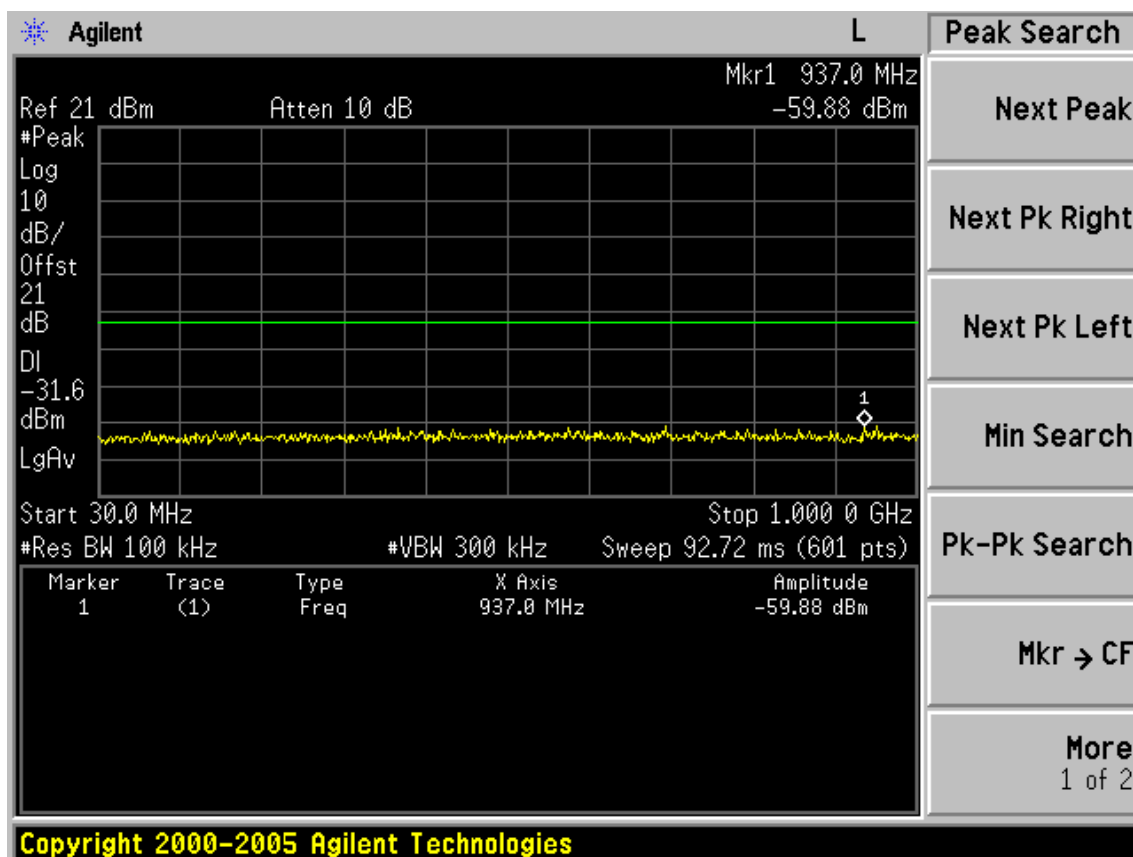
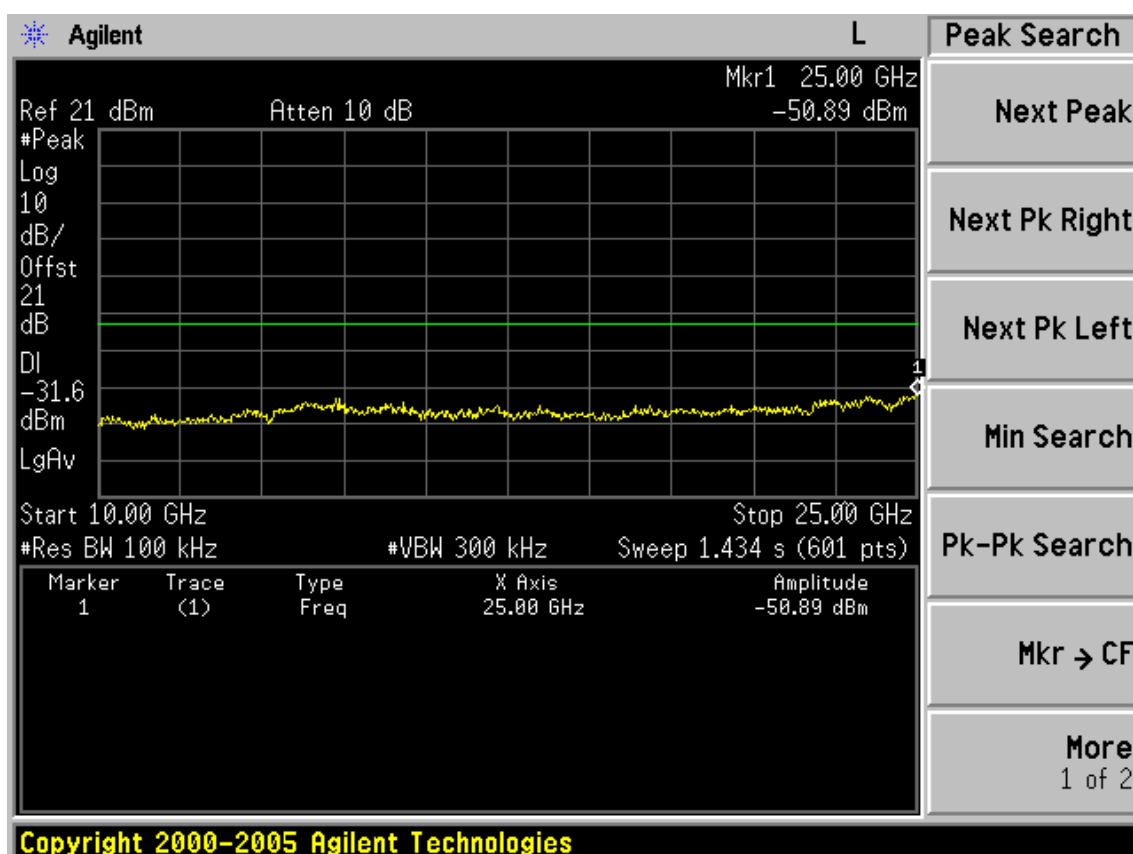


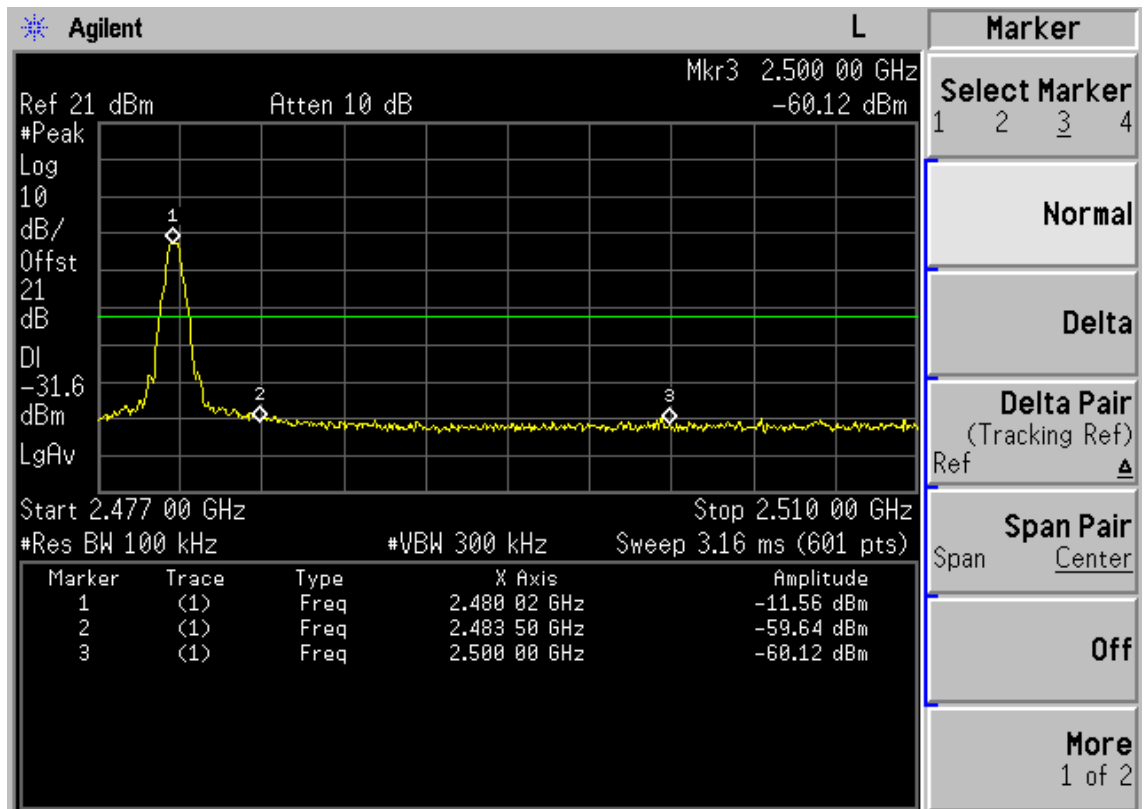
Copyright 2000-2005 Agilent Technologies



2480MHz



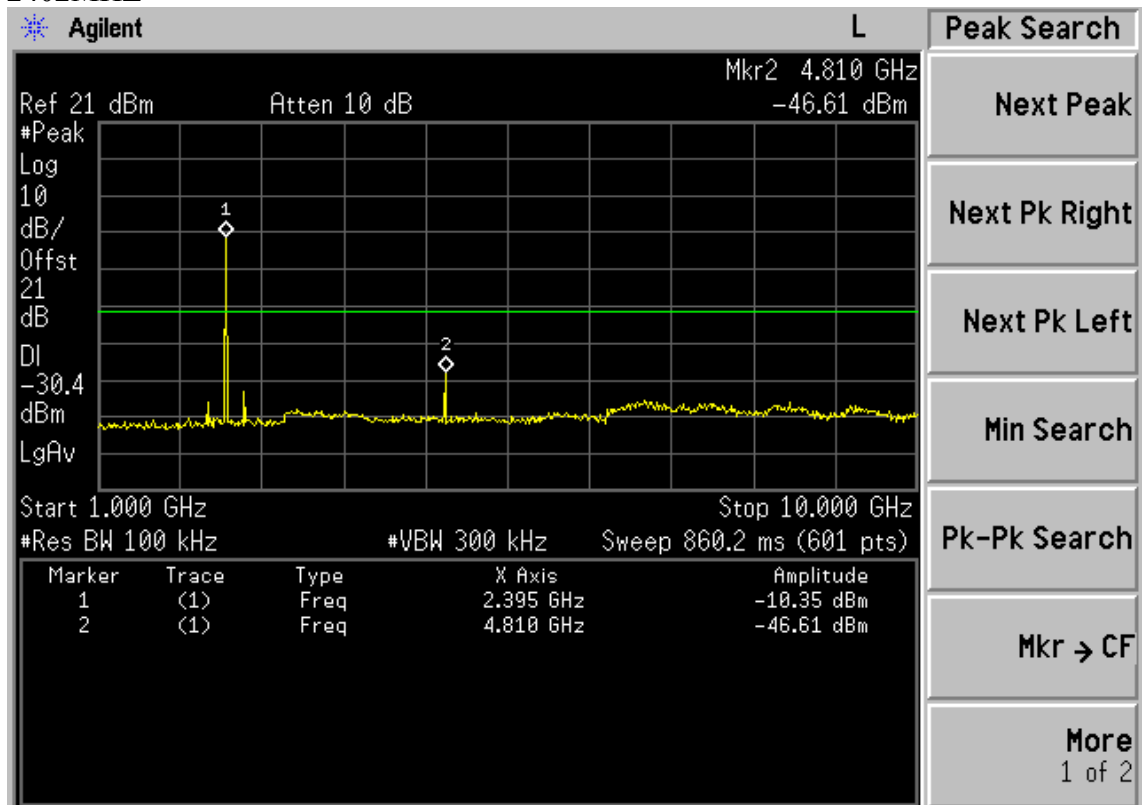




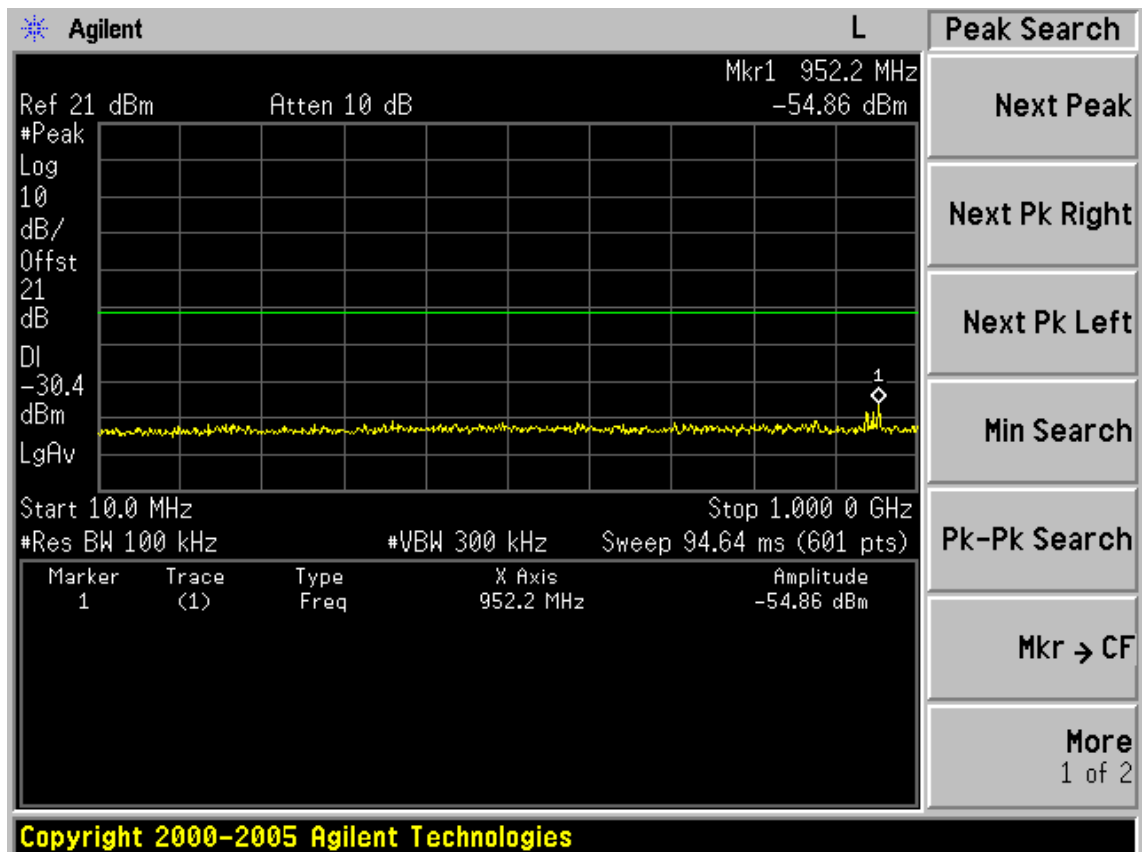
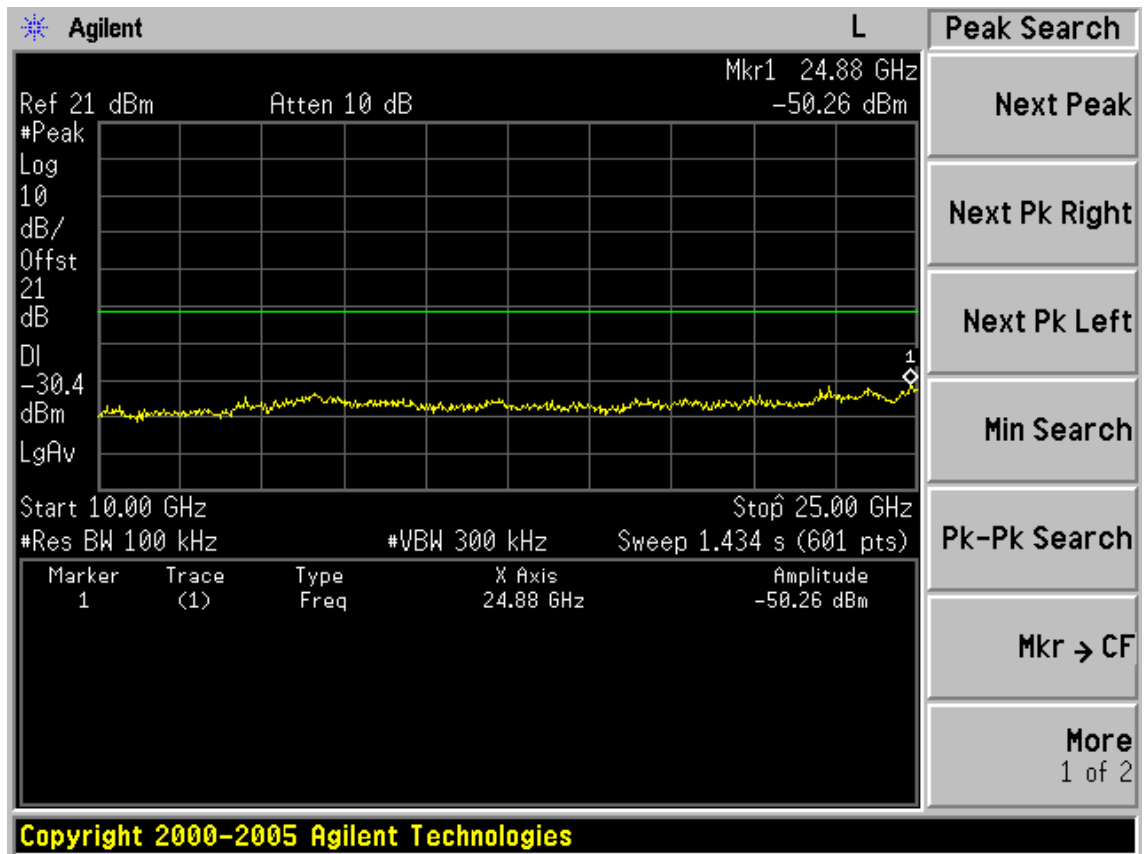
Copyright 2000-2005 Agilent Technologies

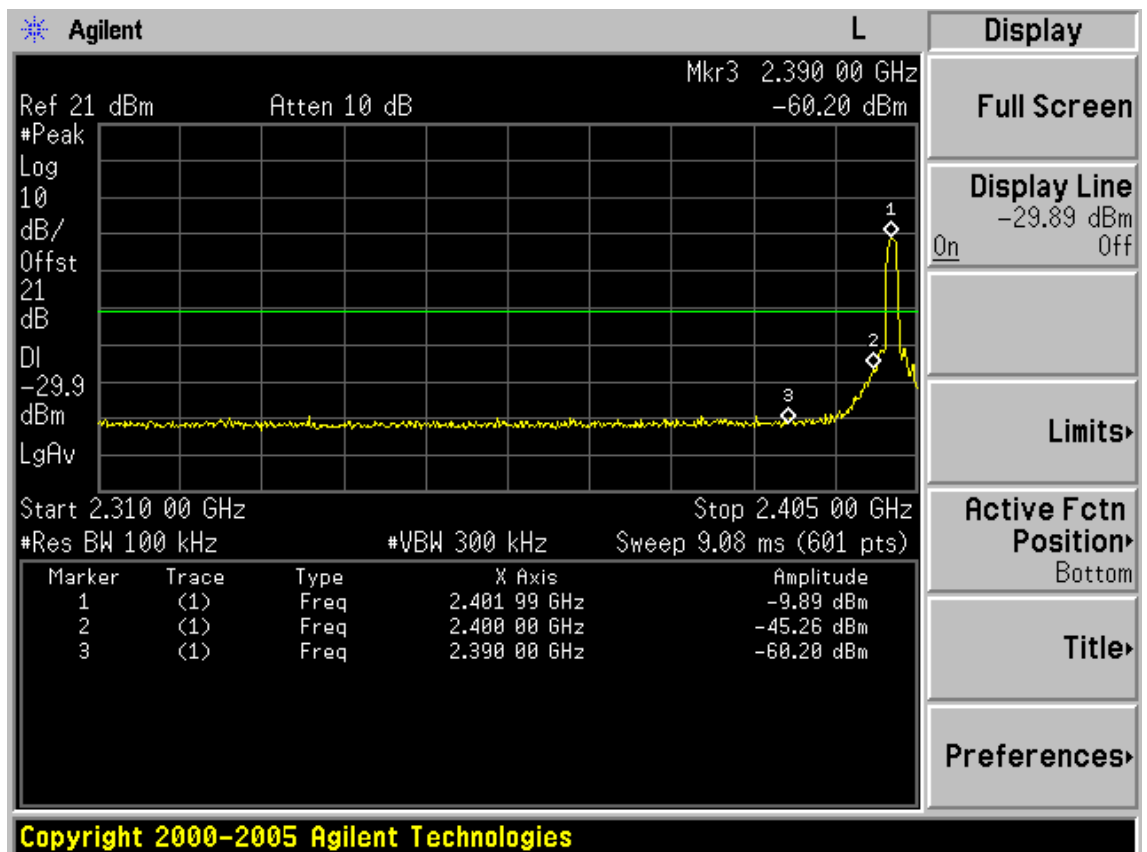
8-DPSK

2402MHZ

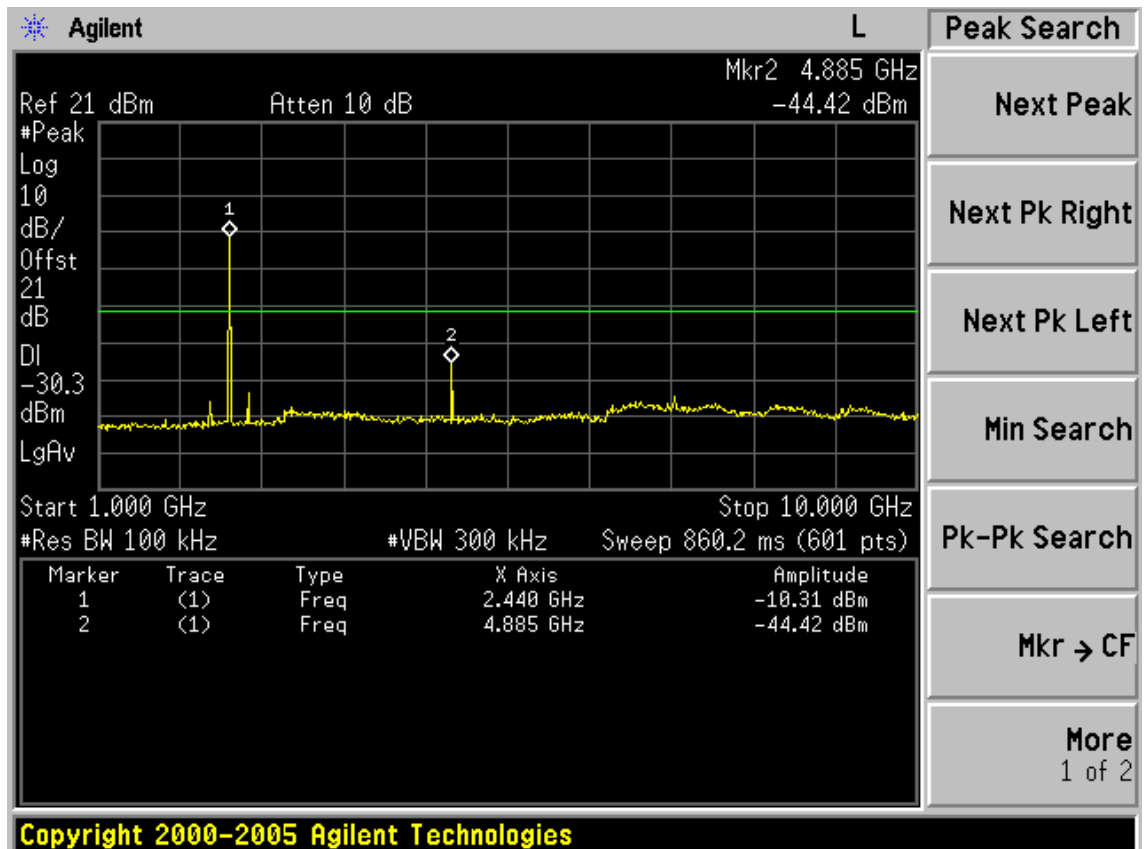


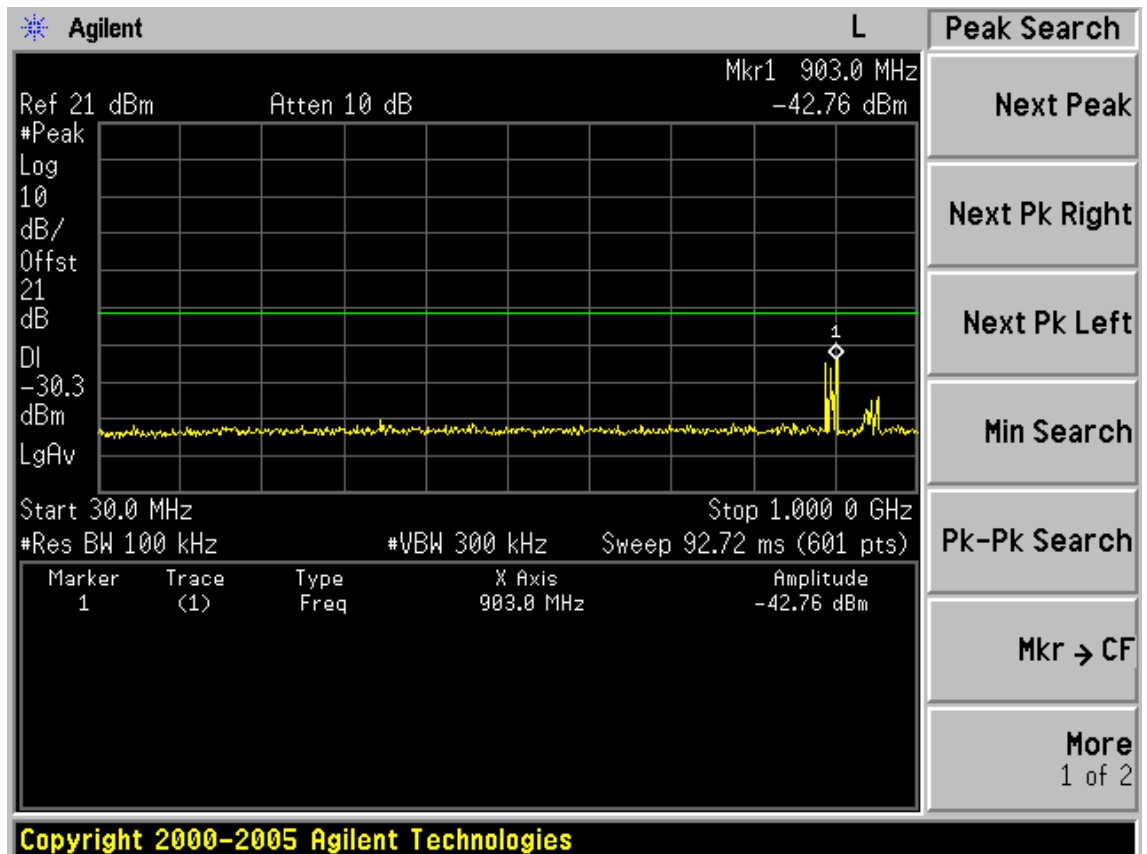
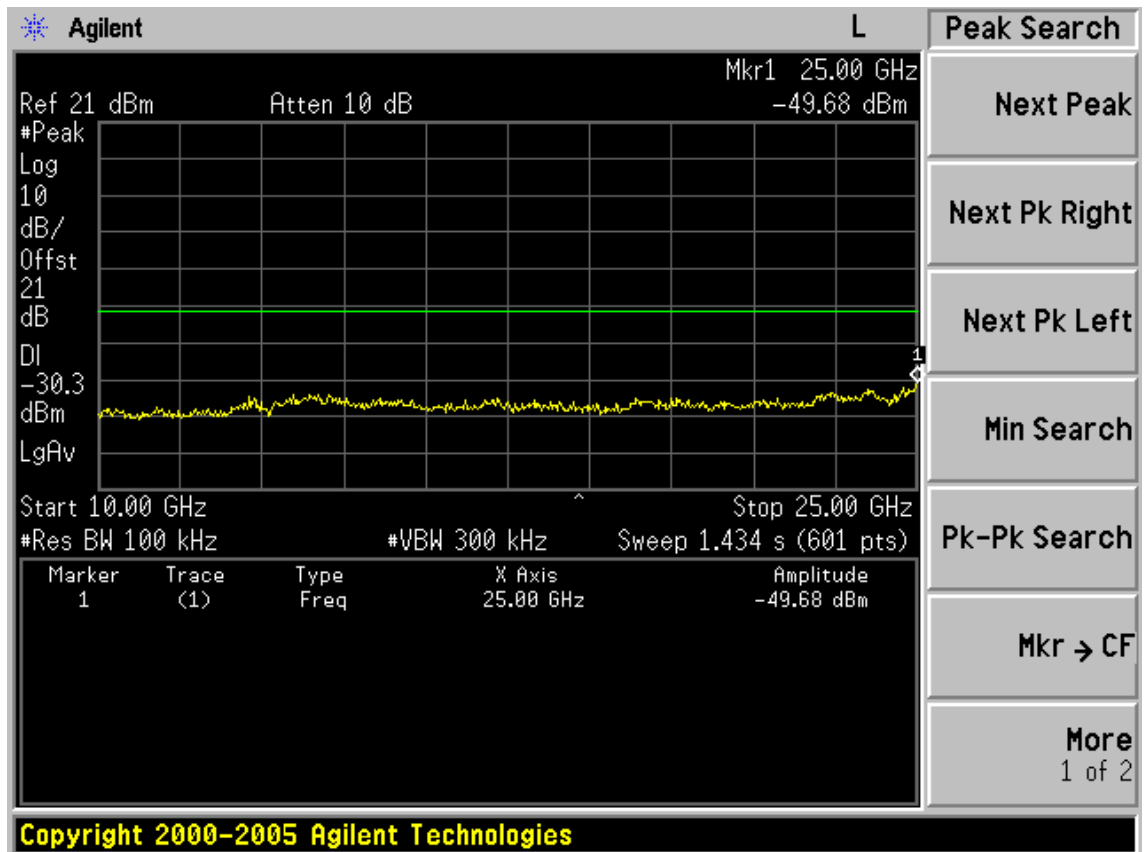
Copyright 2000-2005 Agilent Technologies



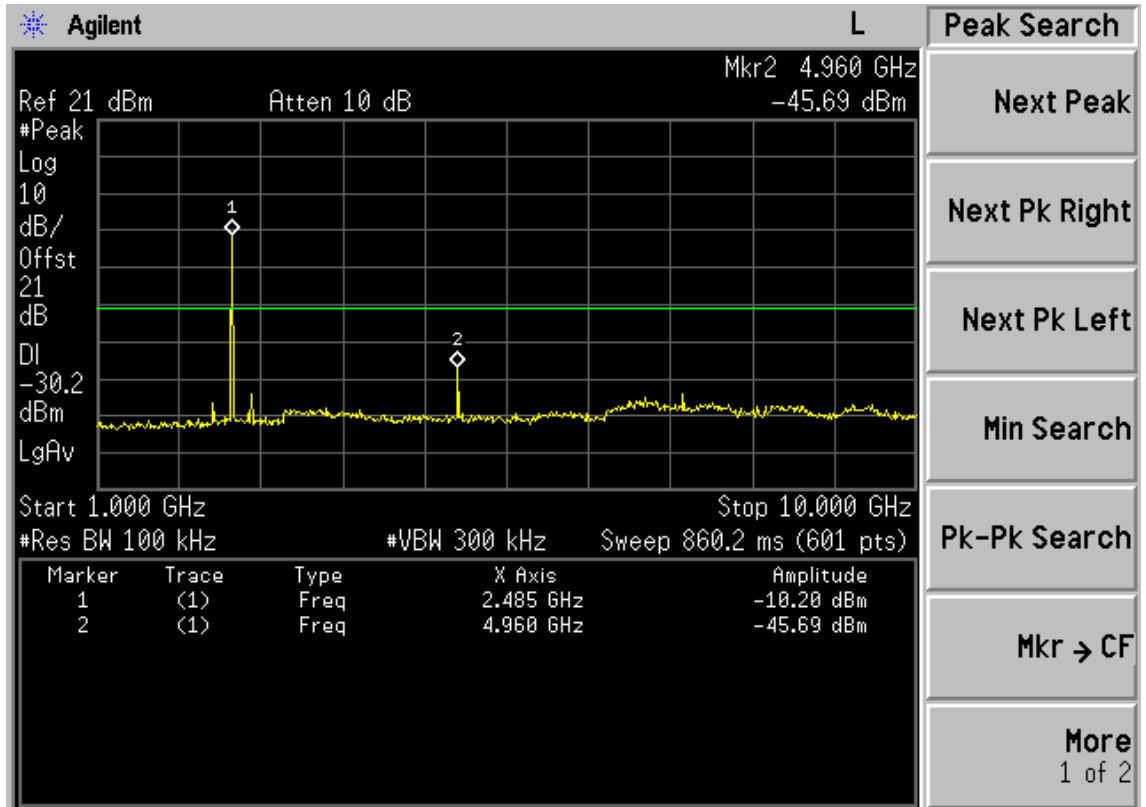


2441MHZ

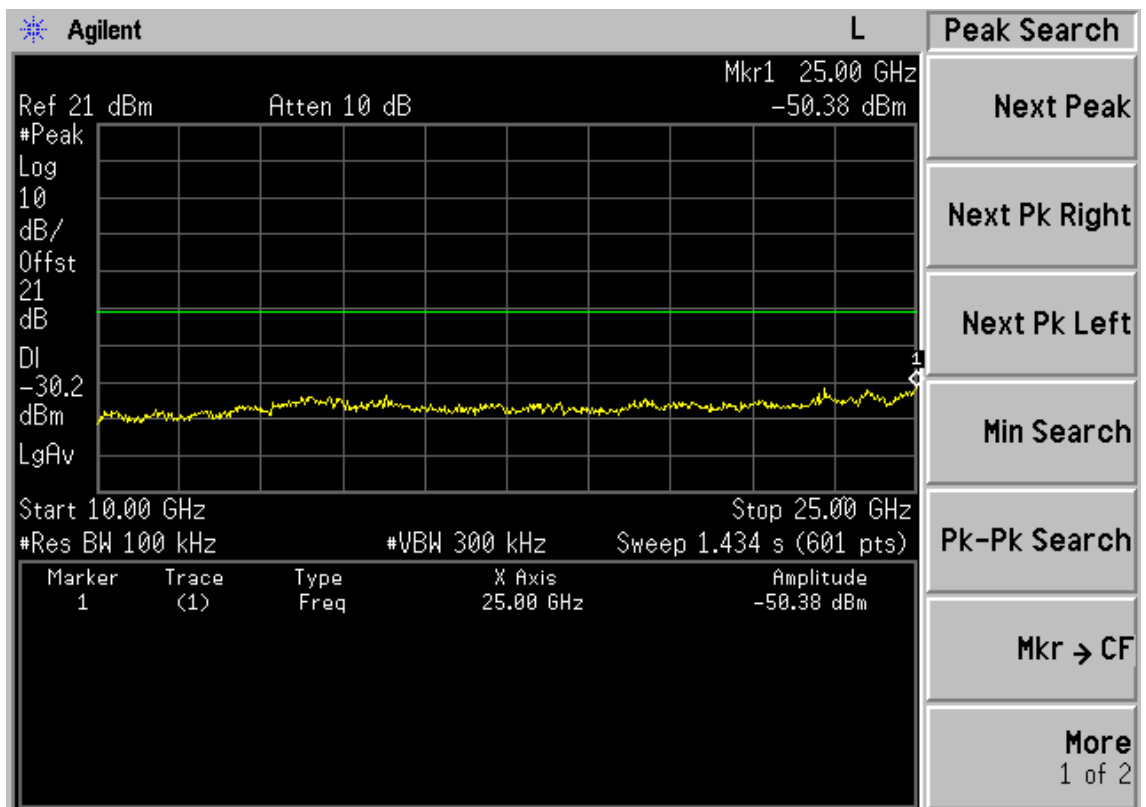




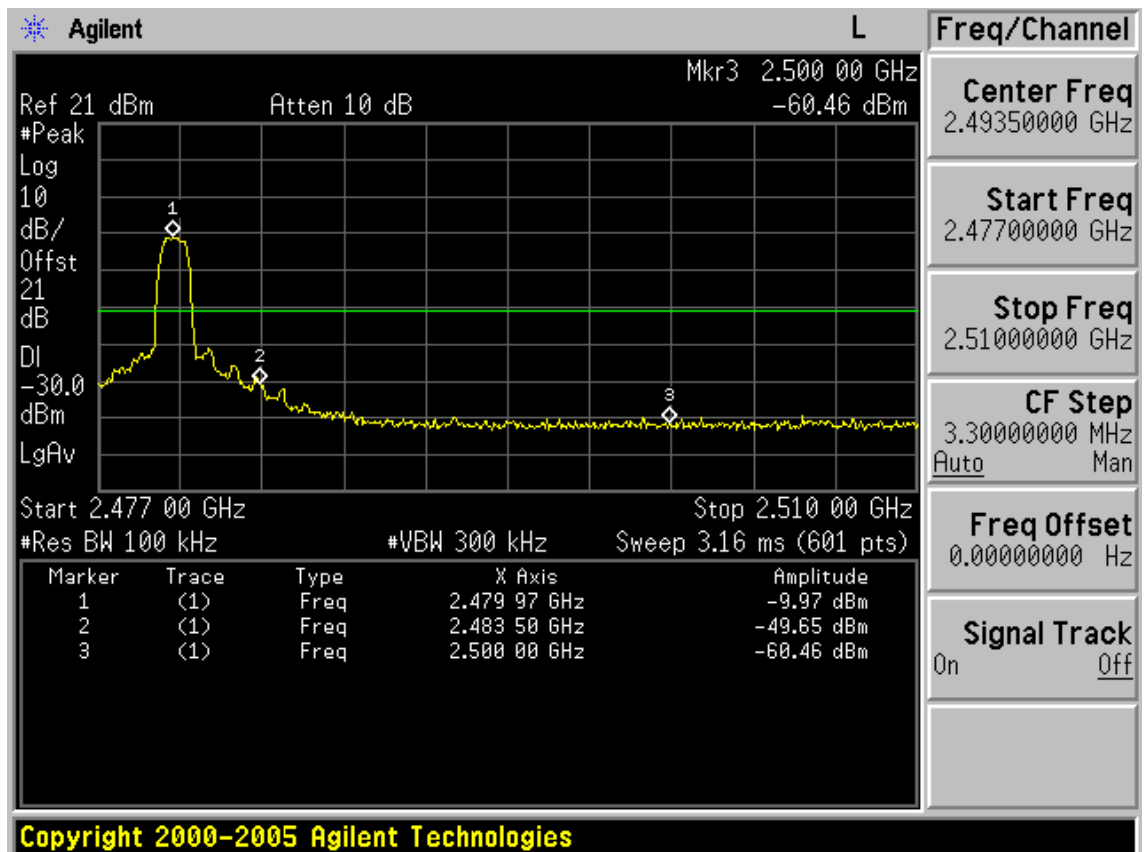
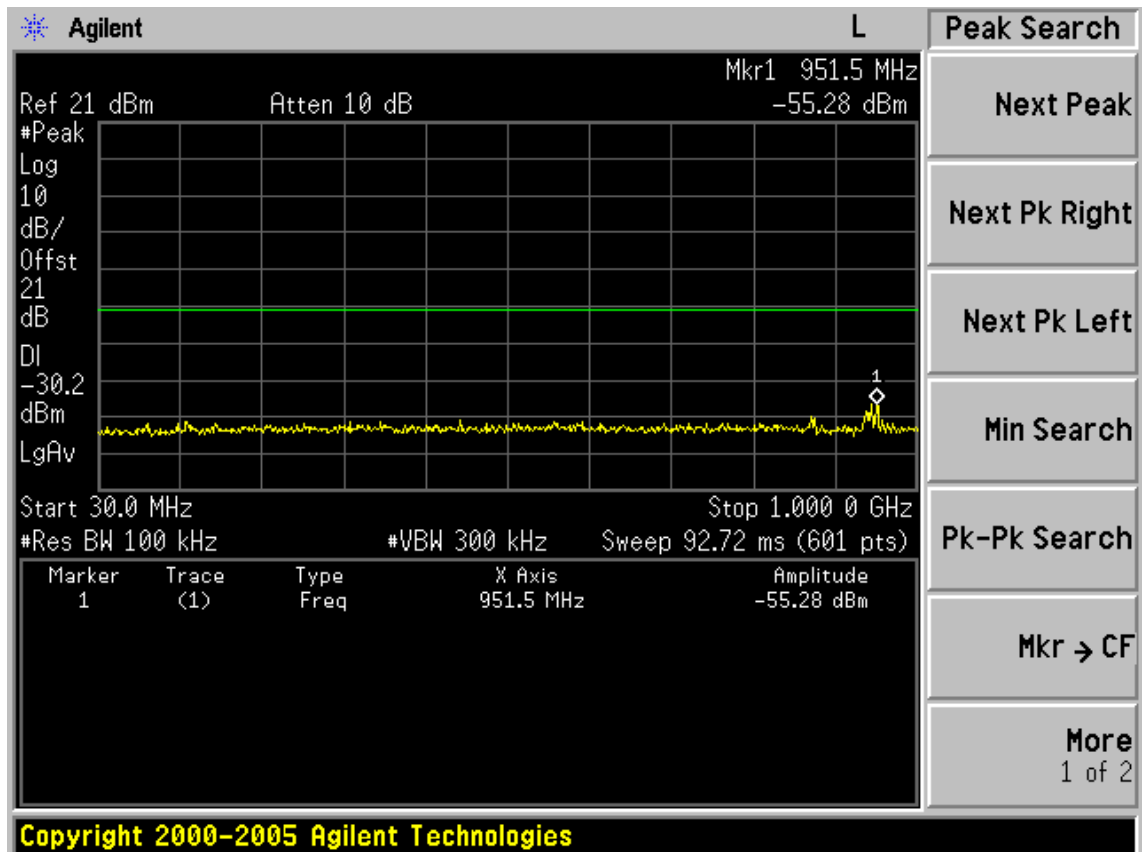
2480MHz



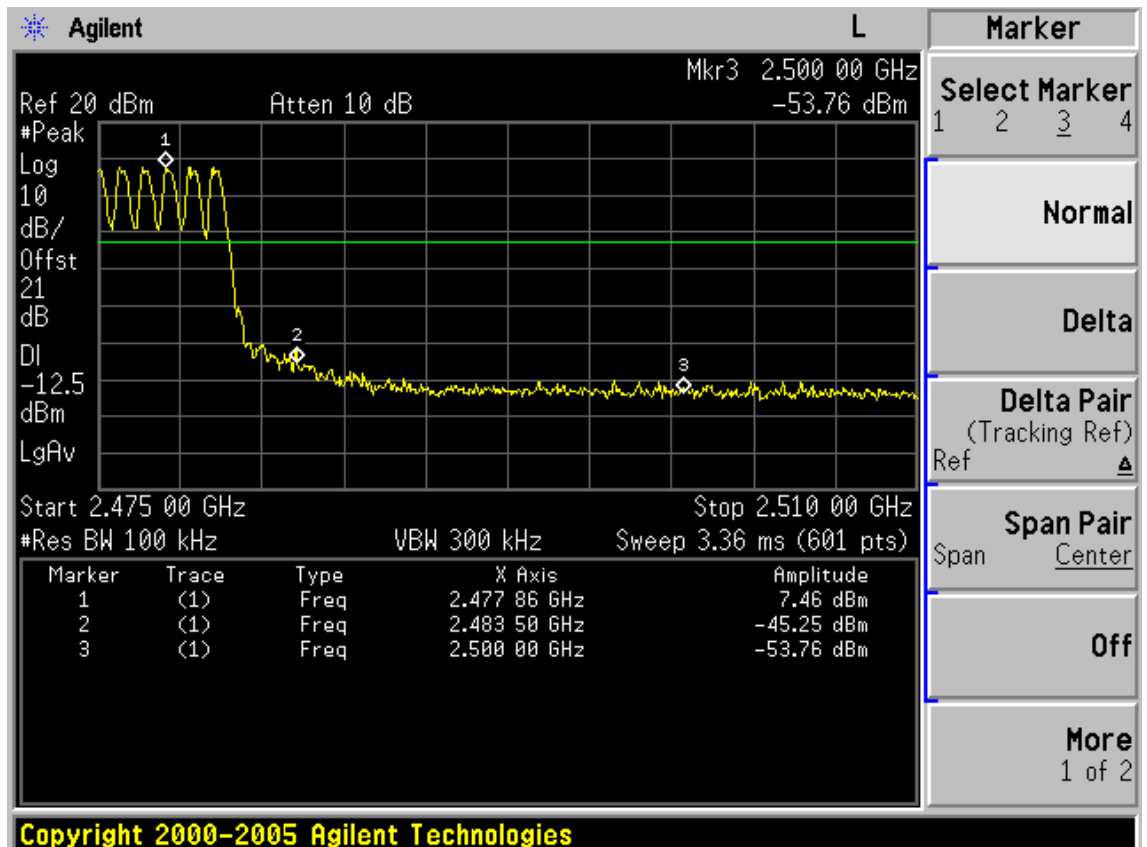
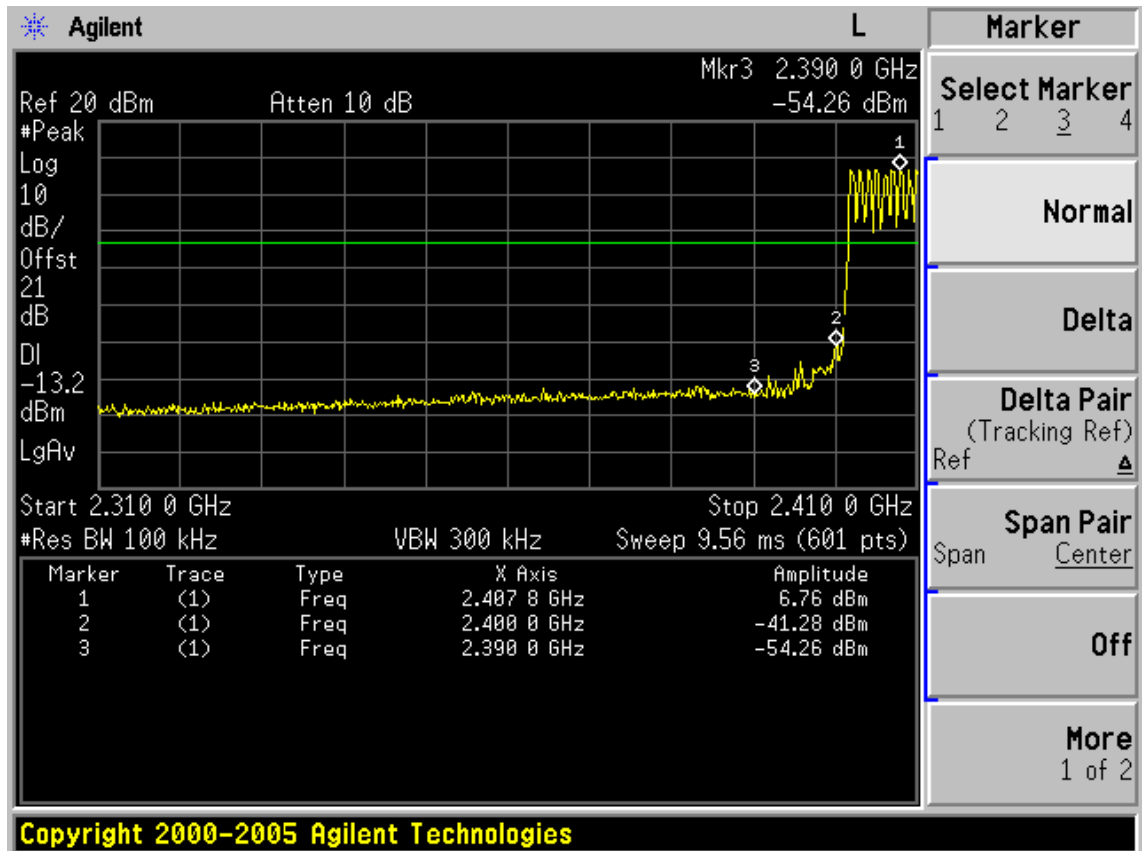
Copyright 2000-2005 Agilent Technologies



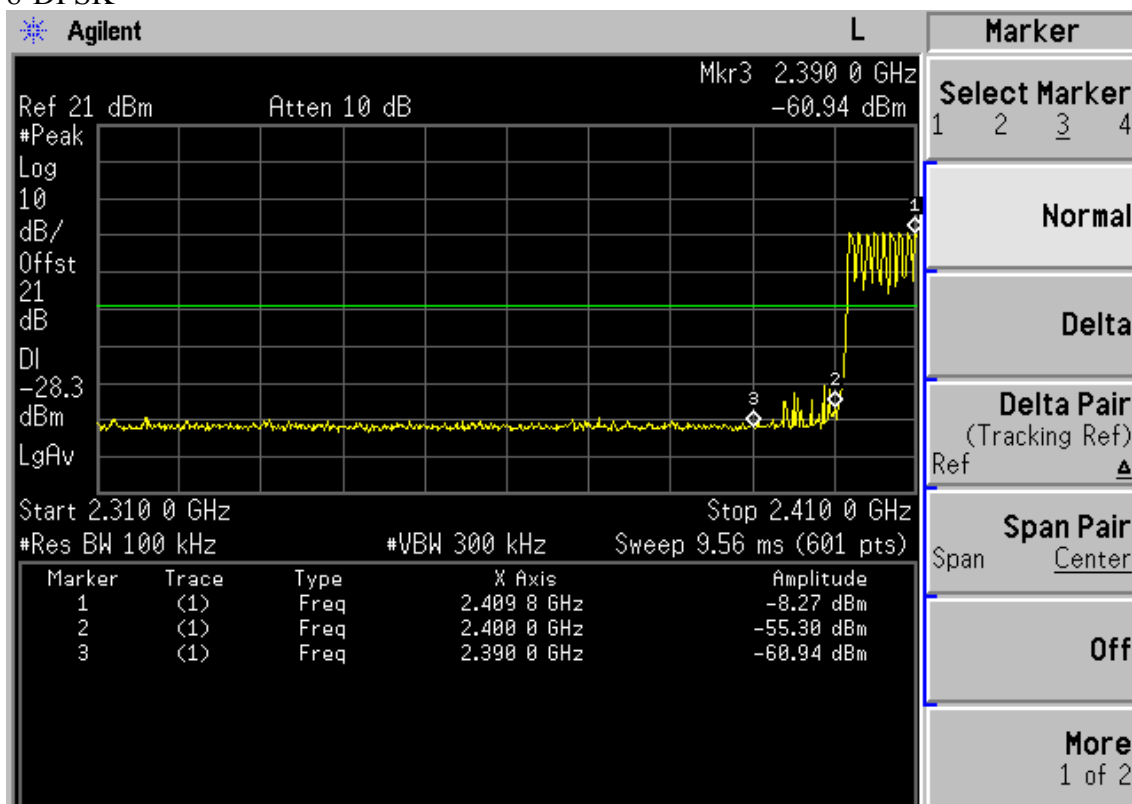
Copyright 2000-2005 Agilent Technologies



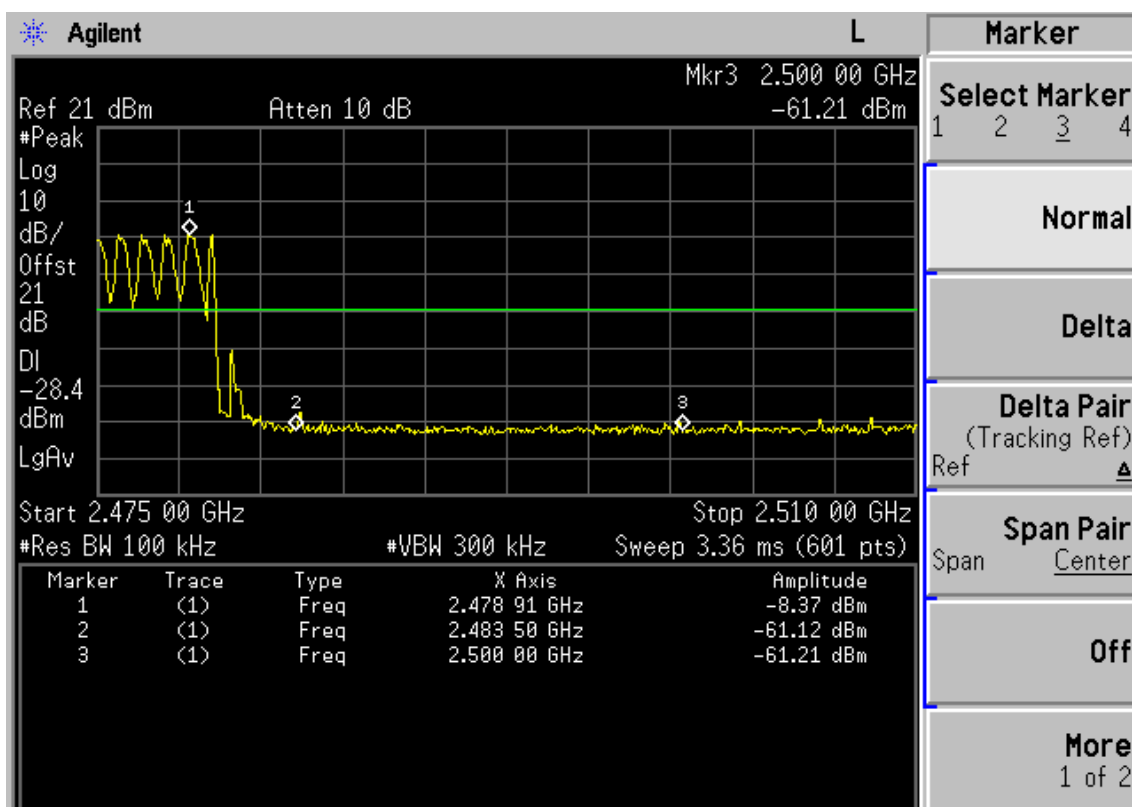
Hopping On GFSK



8-DPSK



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6. CARRIER FREQUENCY SEPARATION TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 12	1 Year
3.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year

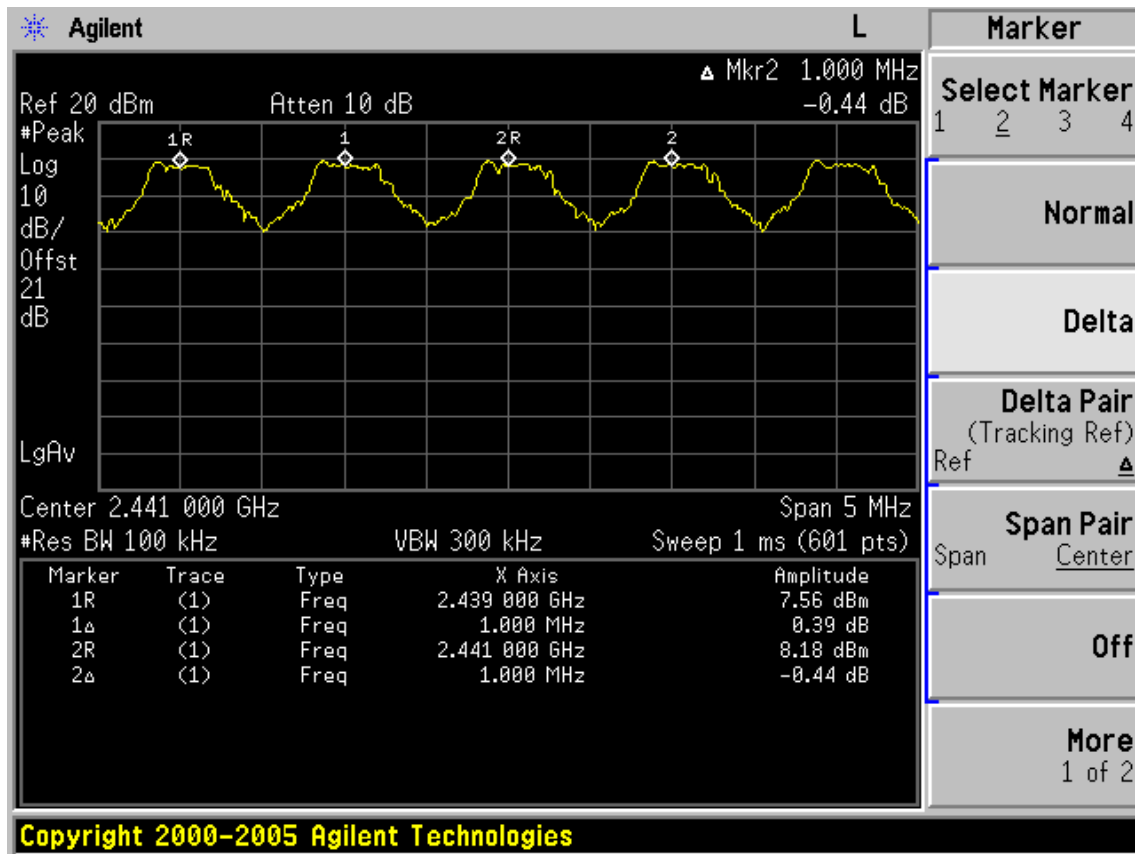
6.2. Limit

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: GC-2 Wireless Controller		
M/N: GC2PS3-11		
Test date: 2012-12-04	Pressure: 101.2±1.0 kpa	Humidity: 53.8±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 24.4±0.6 °C

Channel separation	Conclusion
1MHz	PASS



7. 20 DB BANDWIDTH TEST

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 12	1 Year
3.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	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.

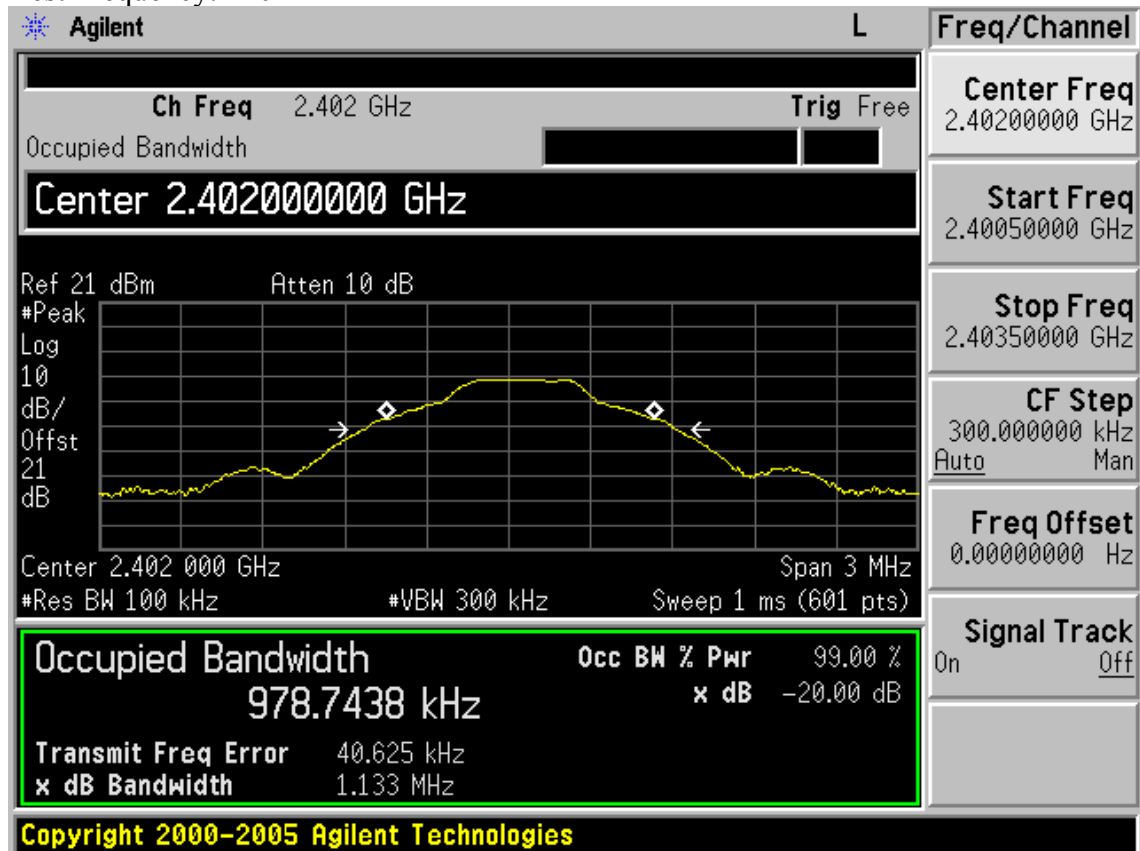
7.3. Test Results

EUT: GC-2 Wireless Controller		
M/N: GC2PS3-11		
Test date: 2012-12-04	Pressure: 101.2±1.0 kpa	Humidity: 53.8±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 24.4±0.6 °C

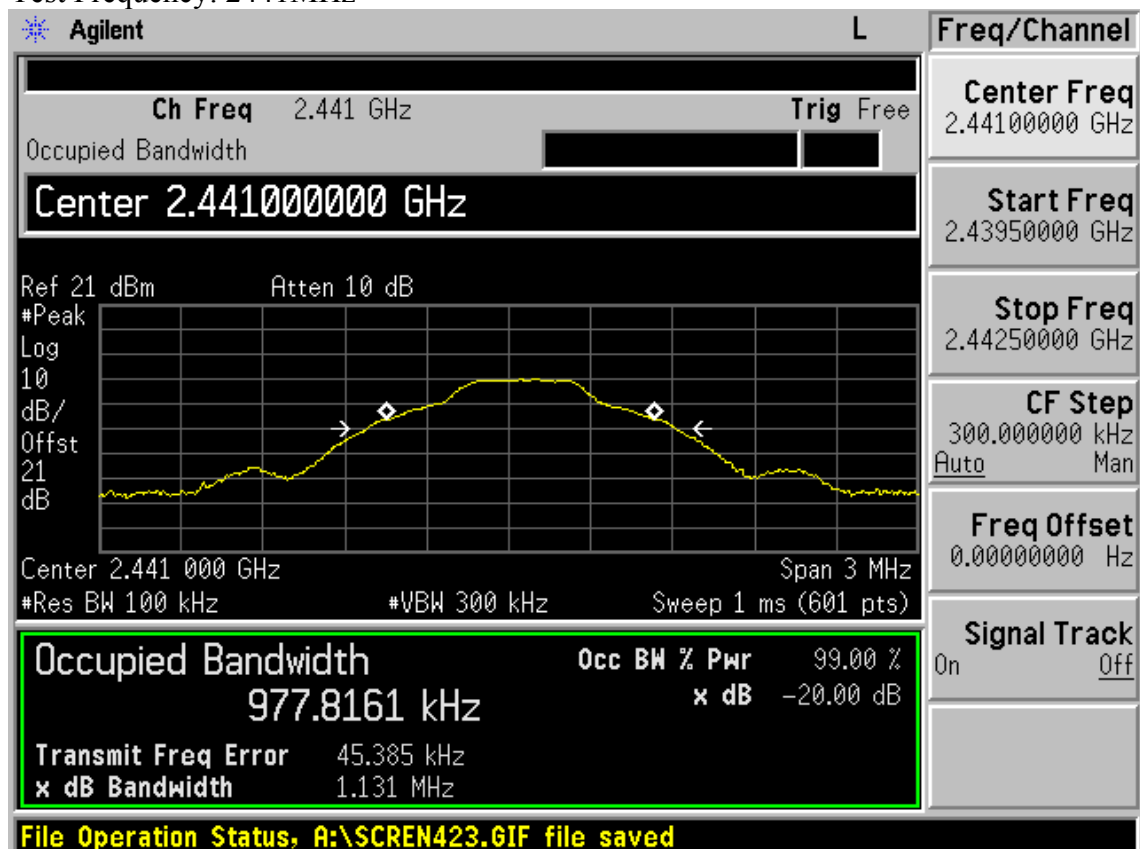
Test Mode	Frequency (MHz)	20dB bandwidth (MHz)	Limit (MHz)
GFSK	2402	1.133	N/A
	2441	1.131	N/A
	2480	1.133	N/A
8-DPSK	2402	1.401	N/A
	2441	1.400	N/A
	2480	1.423	N/A
Conclusion : PASS			

GFSK

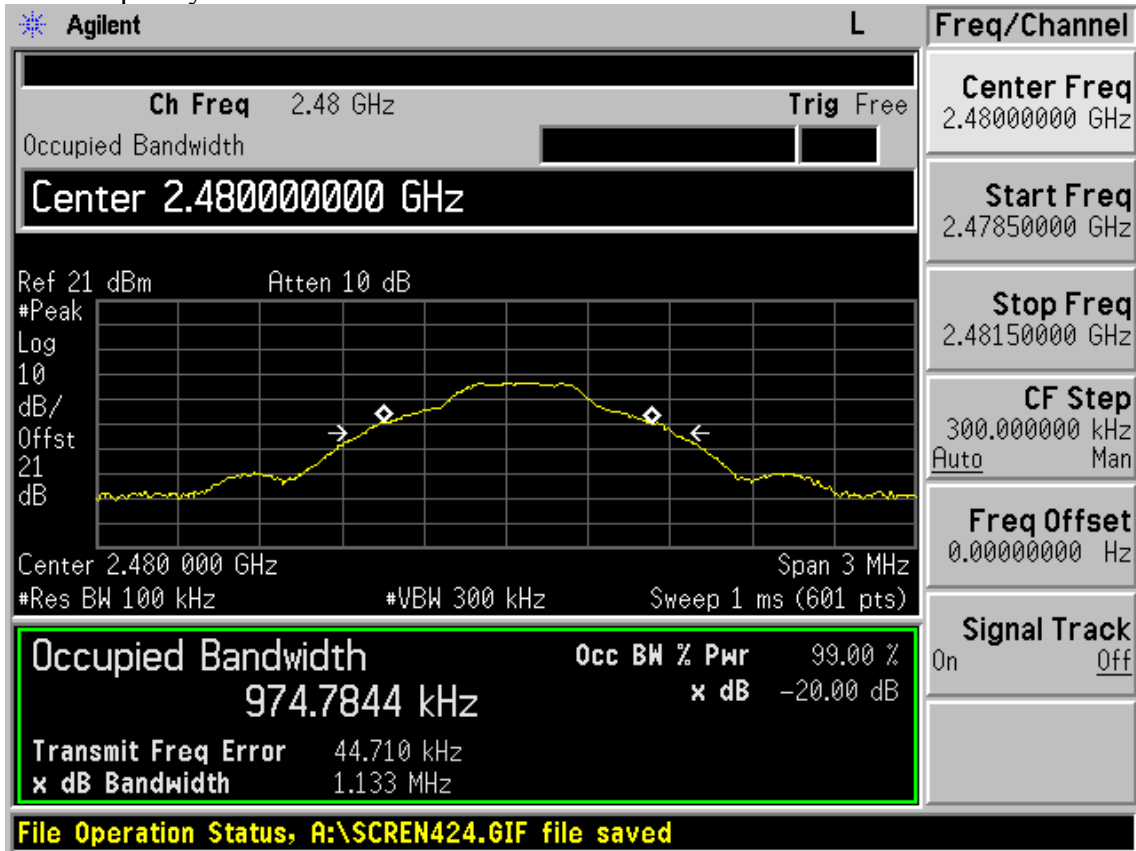
Test Frequency: 2402MHz



Test Frequency: 2441MHz

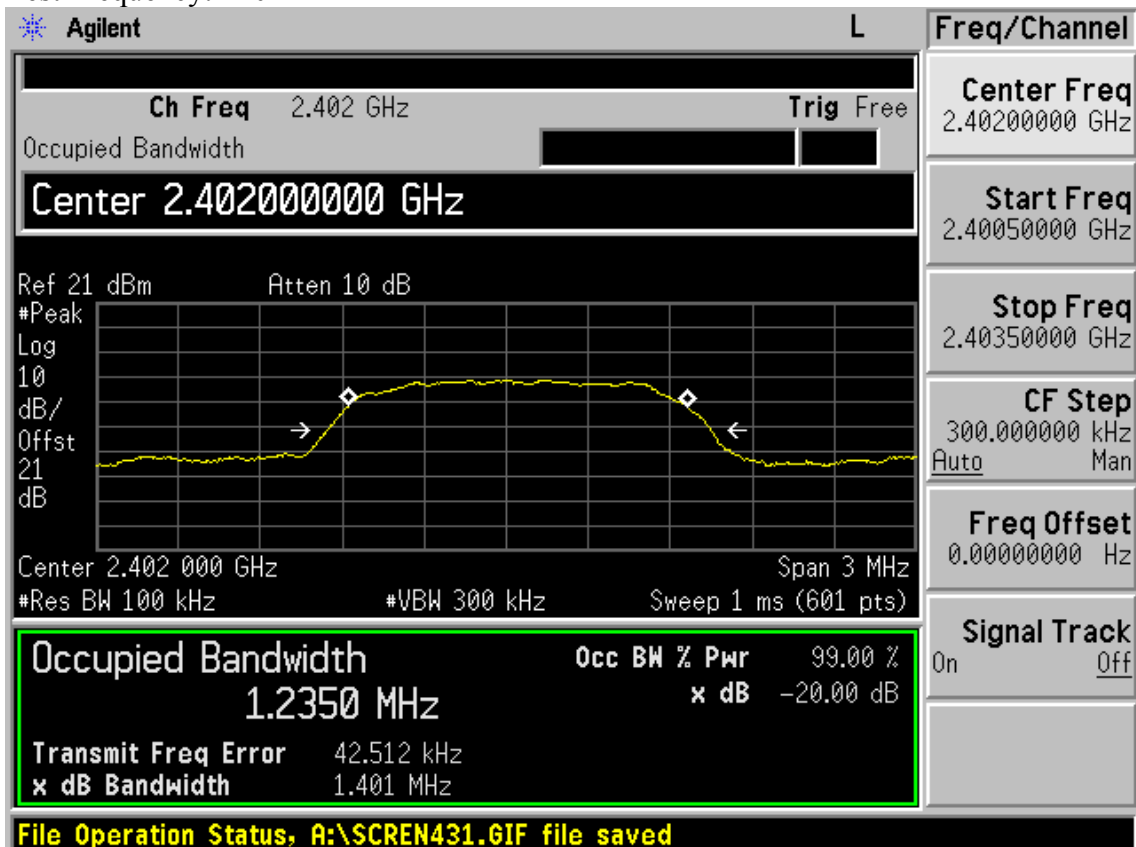


Test Frequency: 2480MHz

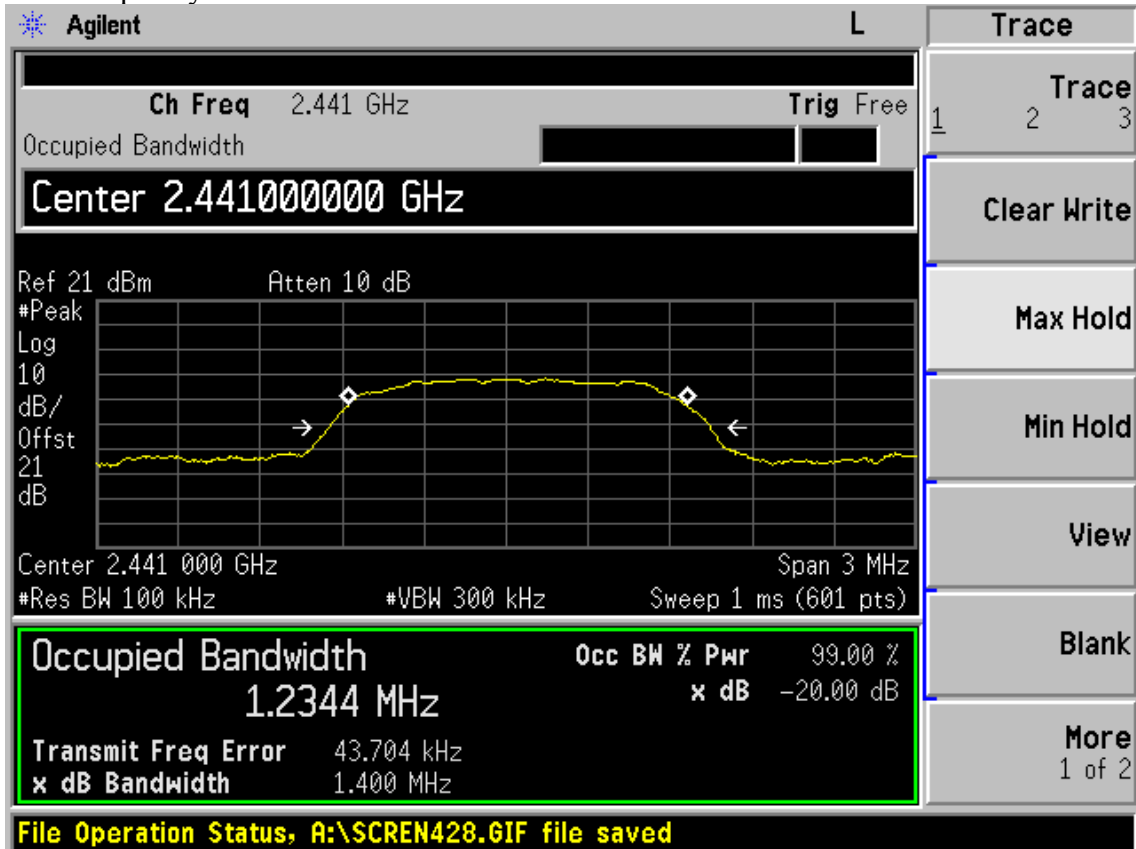


8-DPSK

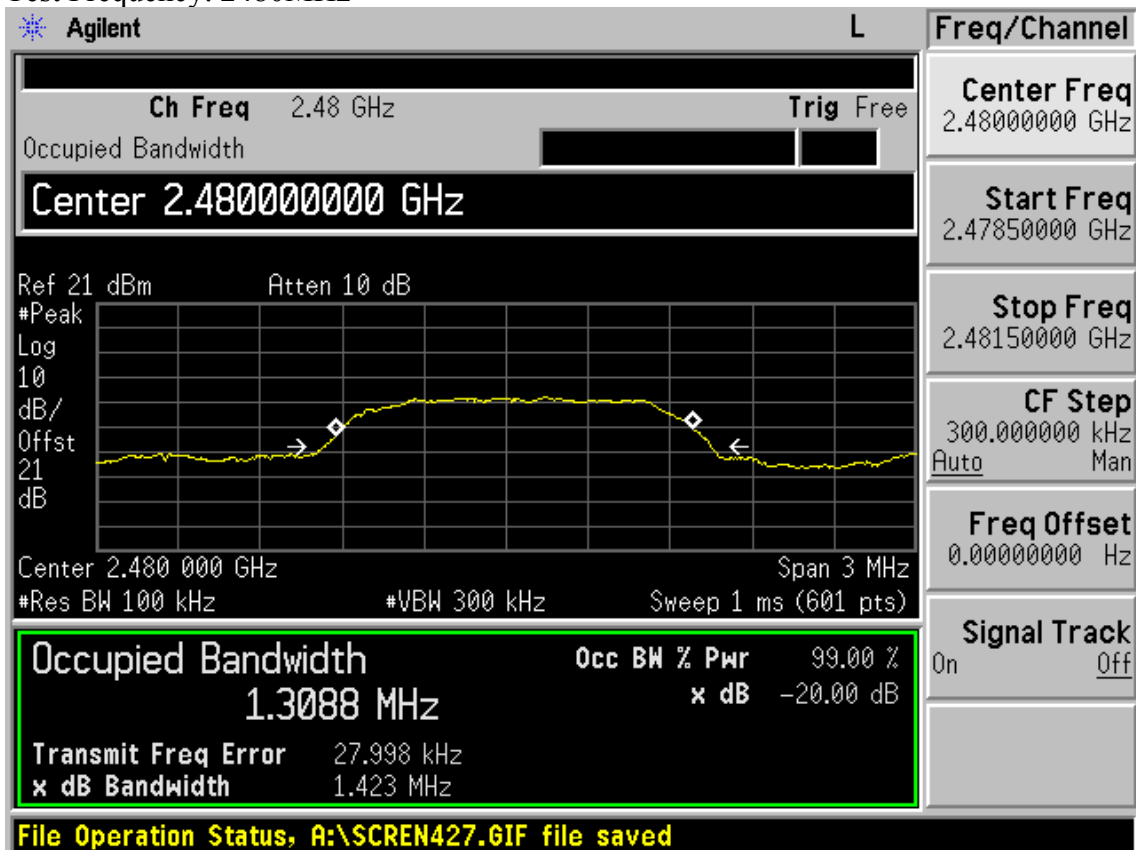
Test Frequency: 2402MHz



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 Analyzer	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 12	1 Year
3.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year

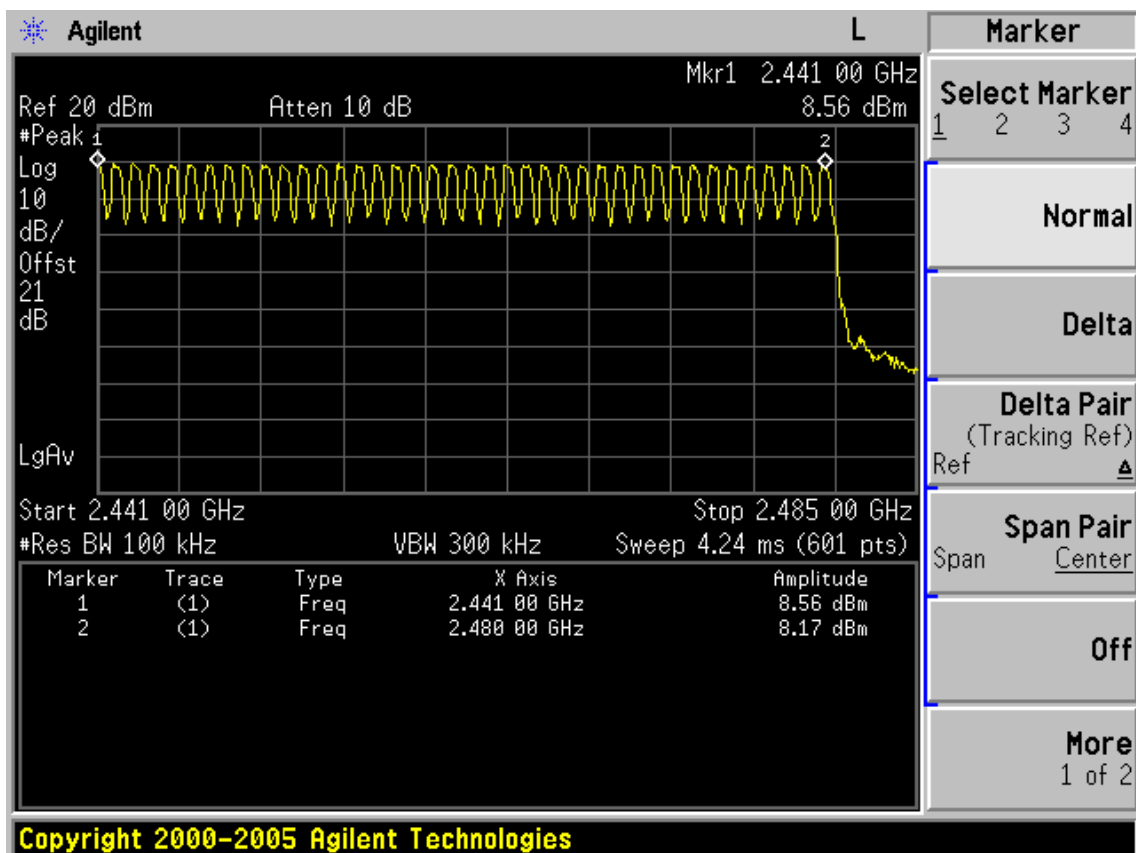
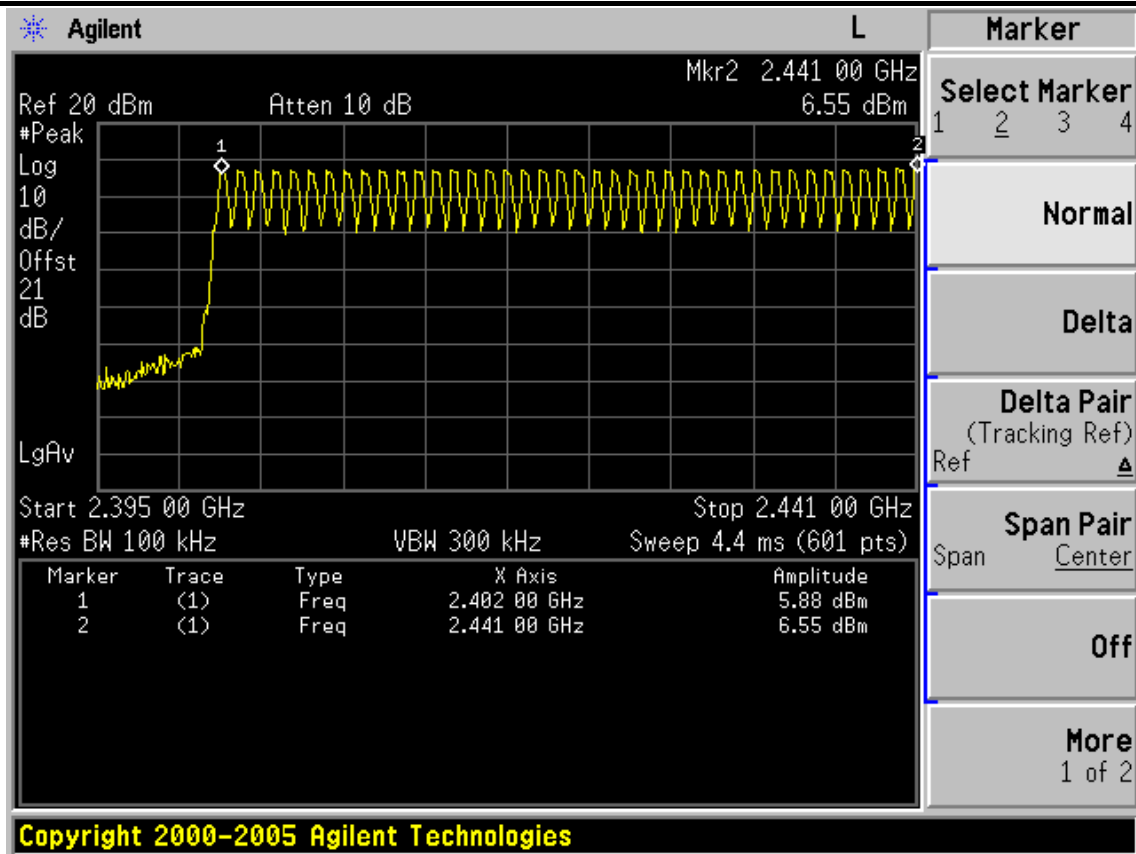
8.2. Limit

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

8.3. Test Results

EUT: GC-2 Wireless Controller		
M/N: GC2PS3-11		
Test date: 2012-12-04	Pressure: 101.2±1.0 kpa	Humidity: 53.8±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature : 24 .4±0.6 °C

Number of channel	Limit	Conclusion
79	>=15	PASS



9. DWELL TIME

9.1. Test Equipmen

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 12	1 Year
3.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	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

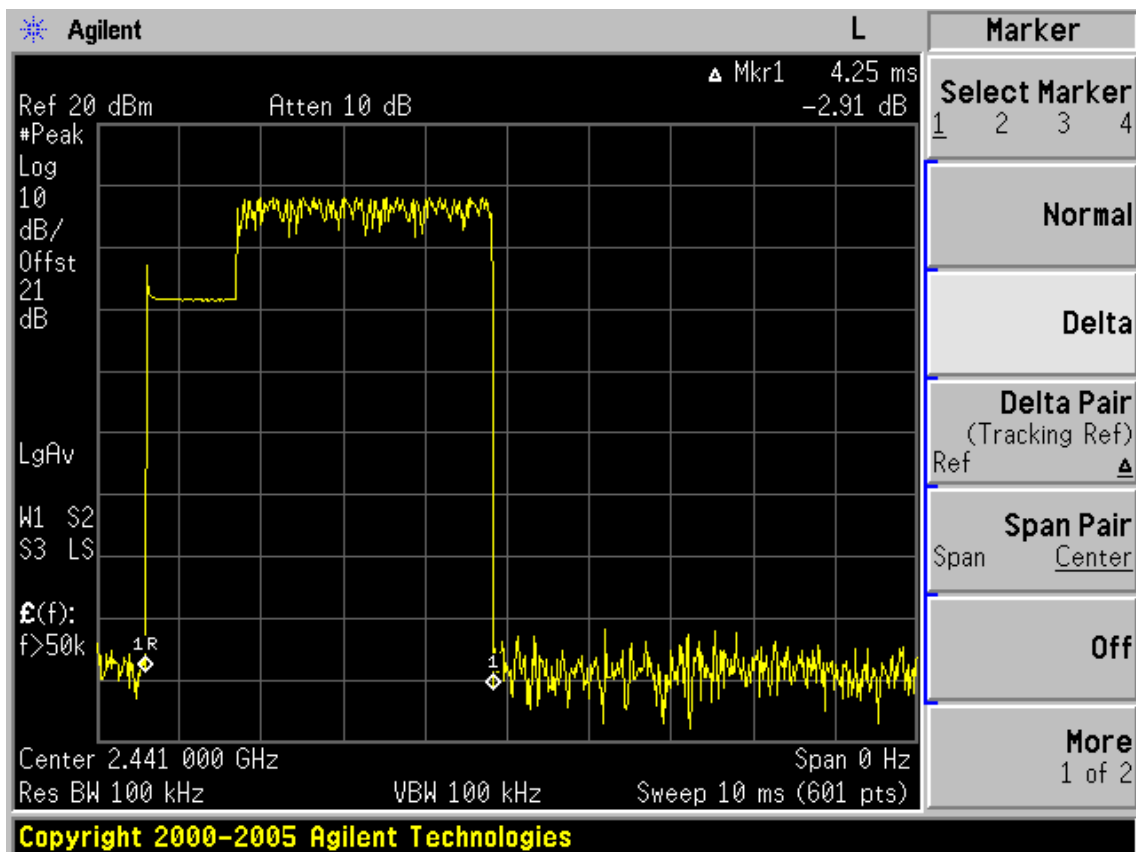
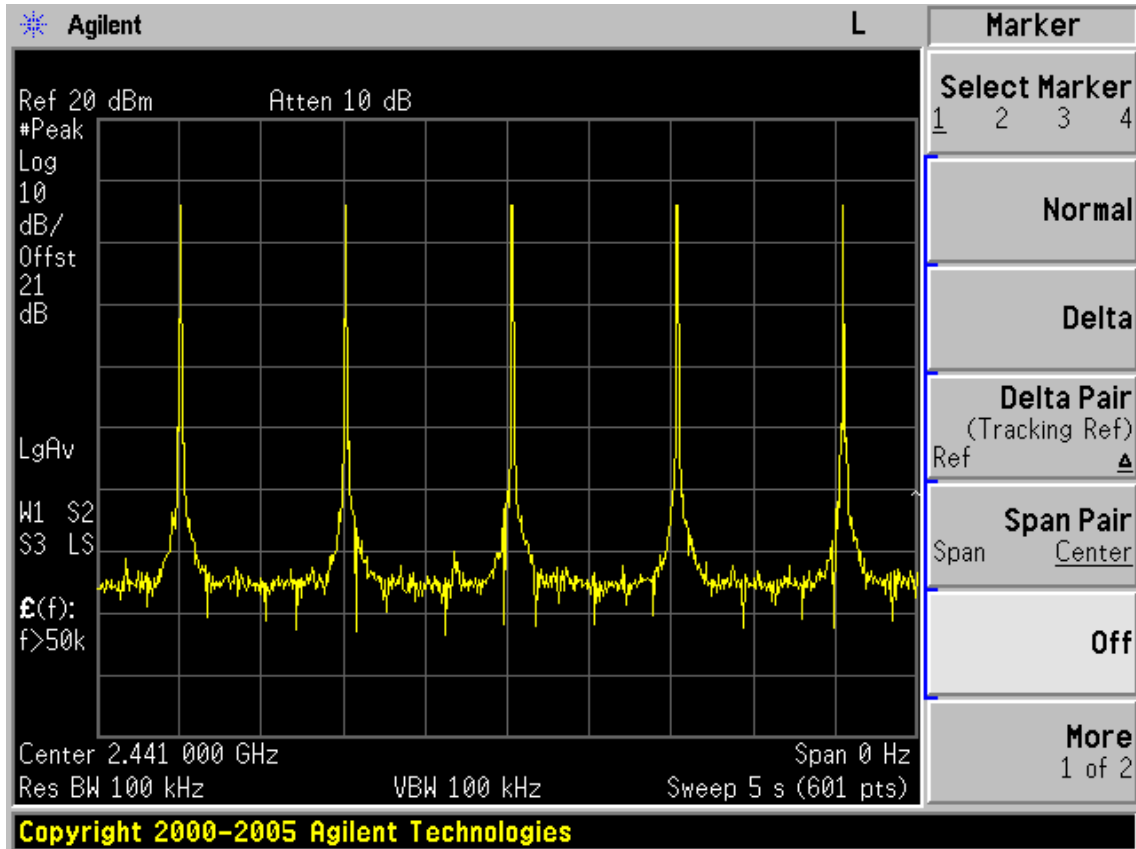
EUT: GC-2 Wireless Controller		
M/N: GC2PS3-11		
Test date: 2012-12-04	Pressure: 101 kpa	Humidity: 51 %
Tested by: Leo-Li	Test site: RF Site	Temperature : 24 °C

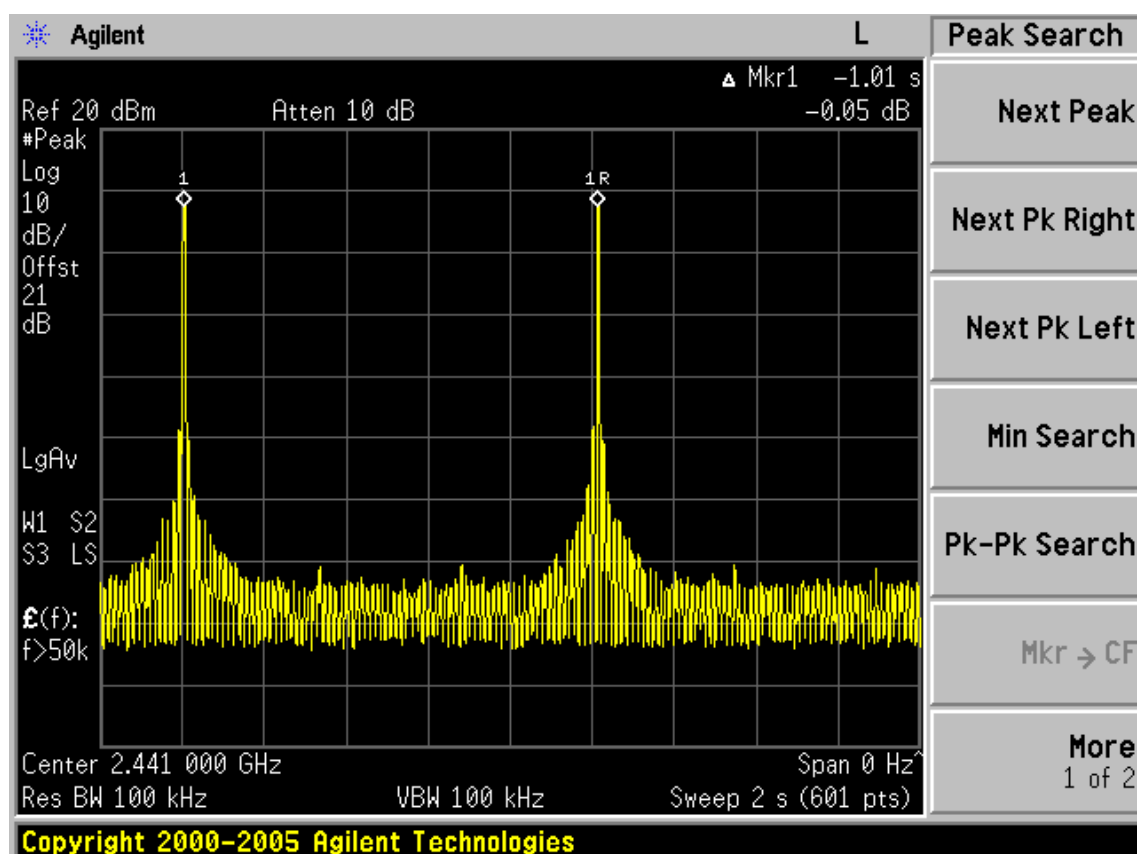
Mode		dwell time	Limit	Conclusion
GFSK	DH1	$5 \text{ hops}/5\text{s} \times 0.4 \times 79 \text{ channels} \times 4.250\text{ms} = 134.300\text{ms}$	<400ms	PASS
	DH3	$5 \text{ hops}/5\text{s} \times 0.4 \times 79 \text{ channels} \times 1.175\text{ms} = 37.130\text{ms}$	<400ms	PASS
	DH5	$5 \text{ hops}/5\text{s} \times 0.4 \times 79 \text{ channels} \times 4.333\text{ms} = 136.923\text{ms}$	<400ms	PASS
8-DPSK	DH1	$5 \text{ hops}/5\text{s} \times 0.4 \times 79 \text{ channels} \times 4.367\text{ms} = 137.997\text{ms}$	<400ms	PASS
	DH3	$5 \text{ hops}/5\text{s} \times 0.4 \times 79 \text{ channels} \times 1.171\text{ms} = 37.004\text{ms}$	<400ms	PASS
	DH5	$5 \text{ hops}/5\text{s} \times 0.4 \times 79 \text{ channels} \times 4.350\text{ms} = 137.025\text{ms}$	<400ms	PASS

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

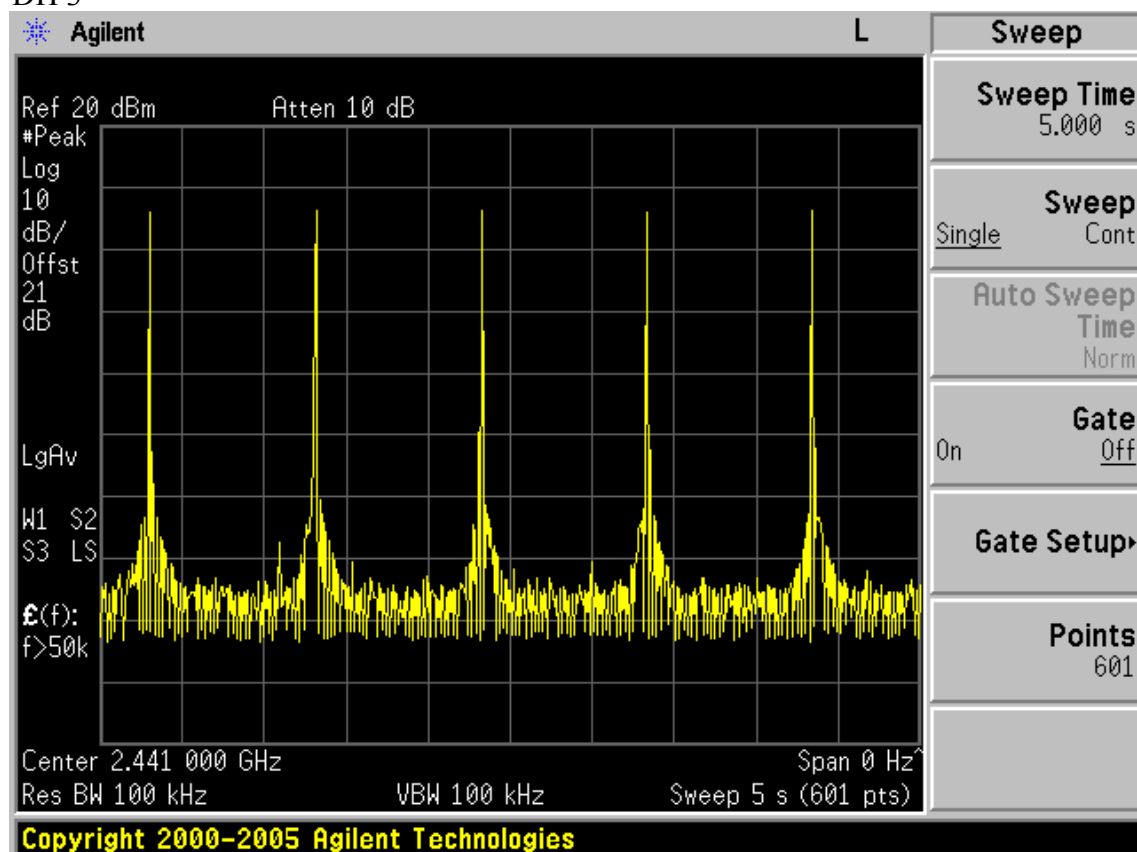
Test Mode: GFSK

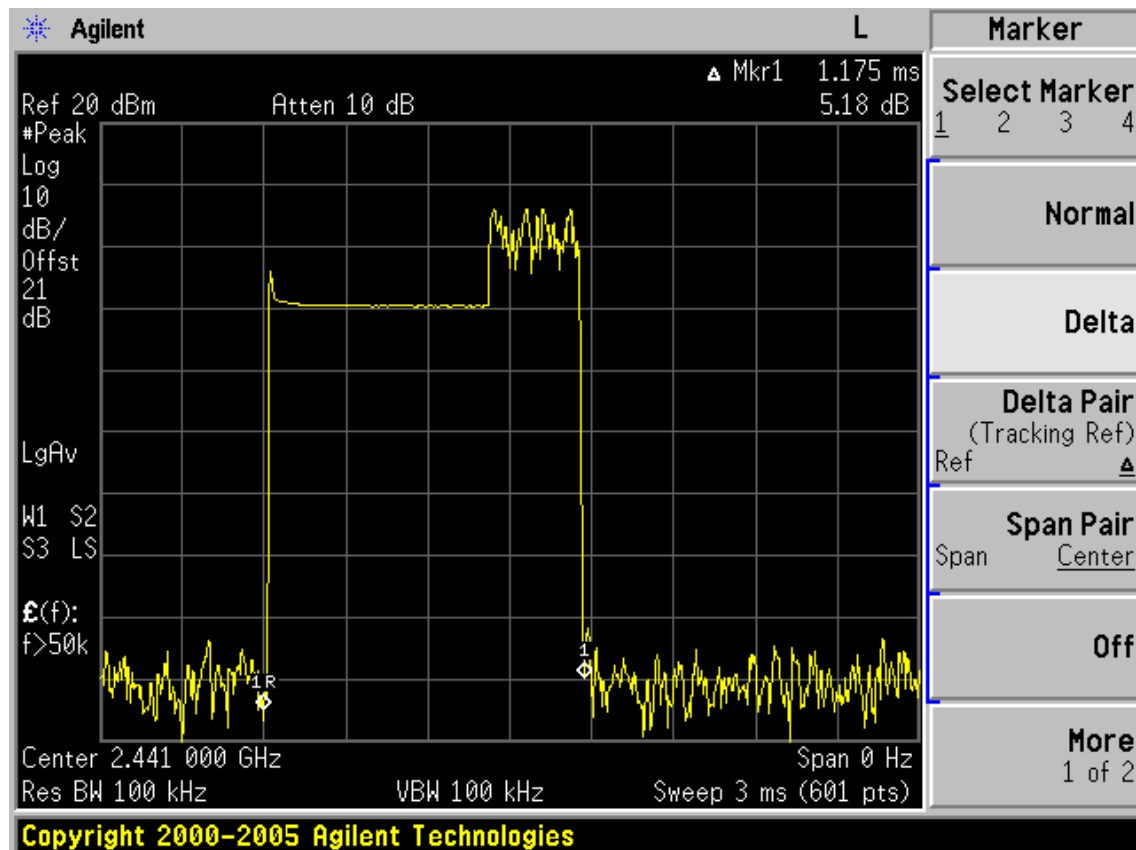
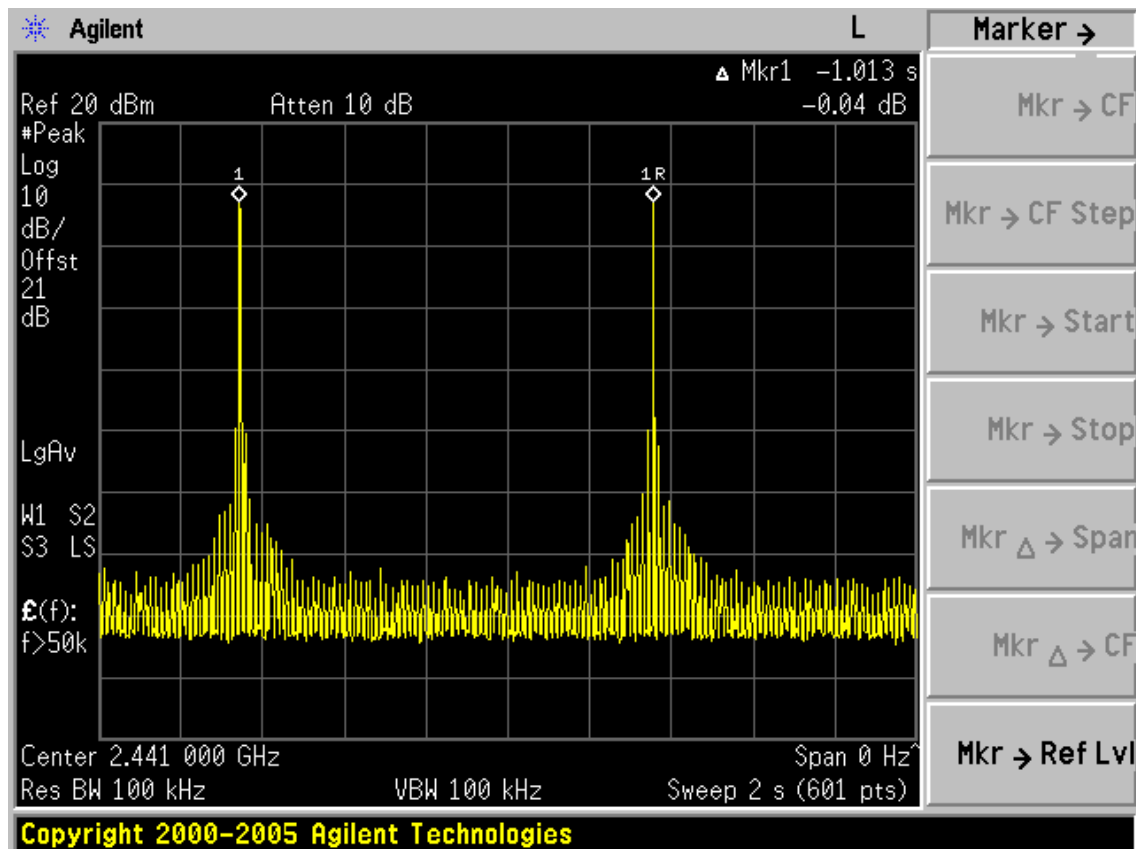
DH 1

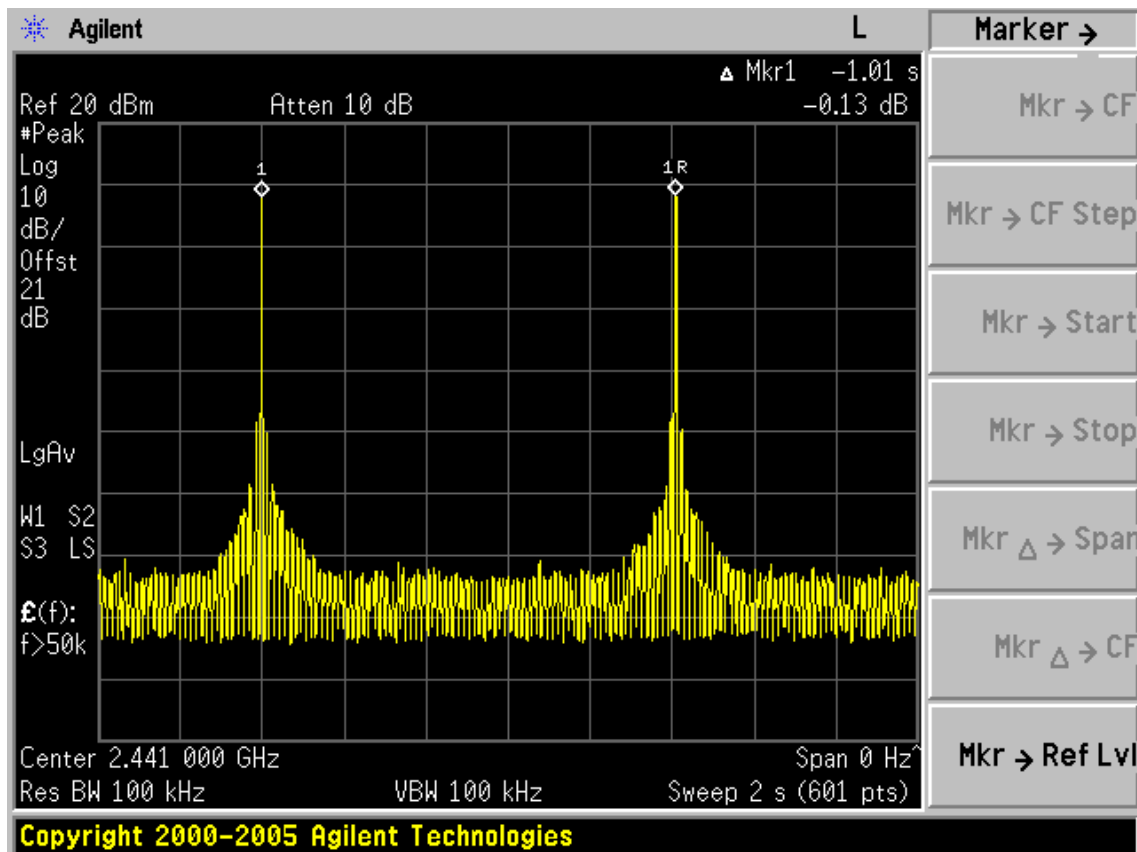
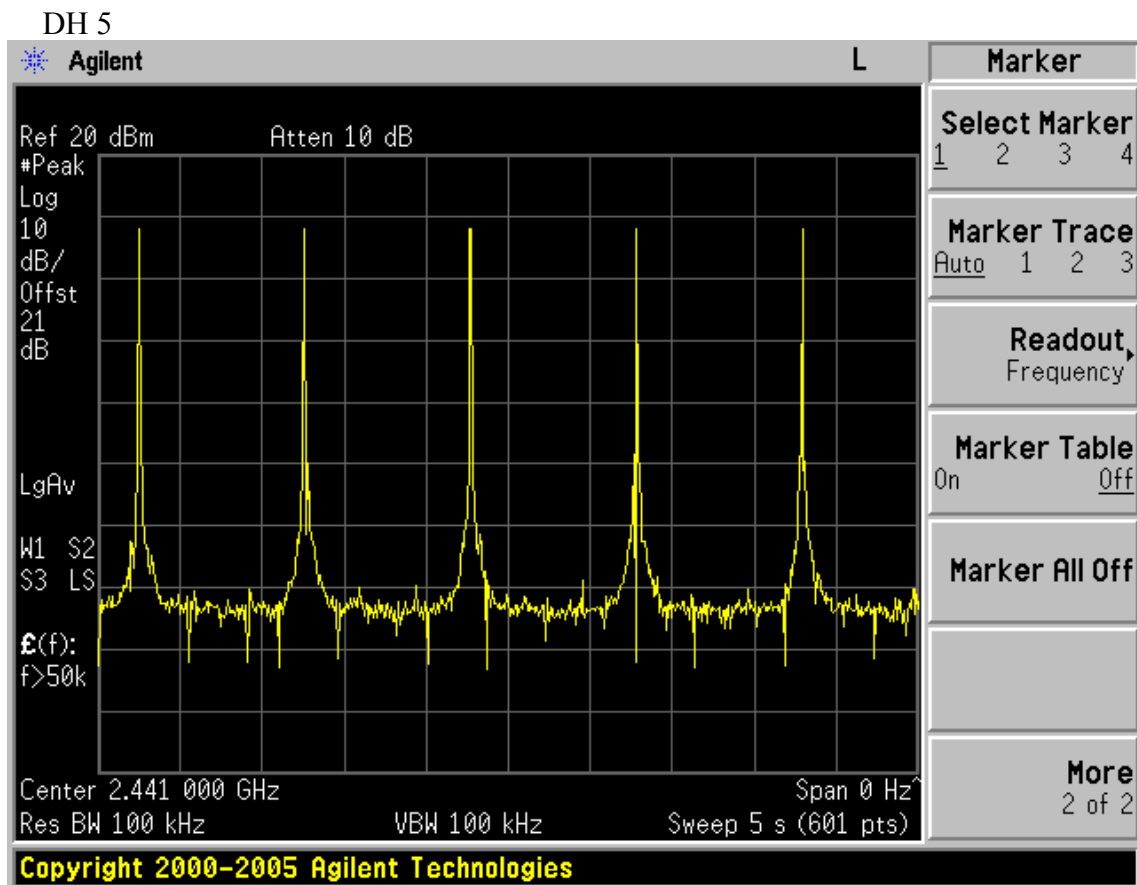


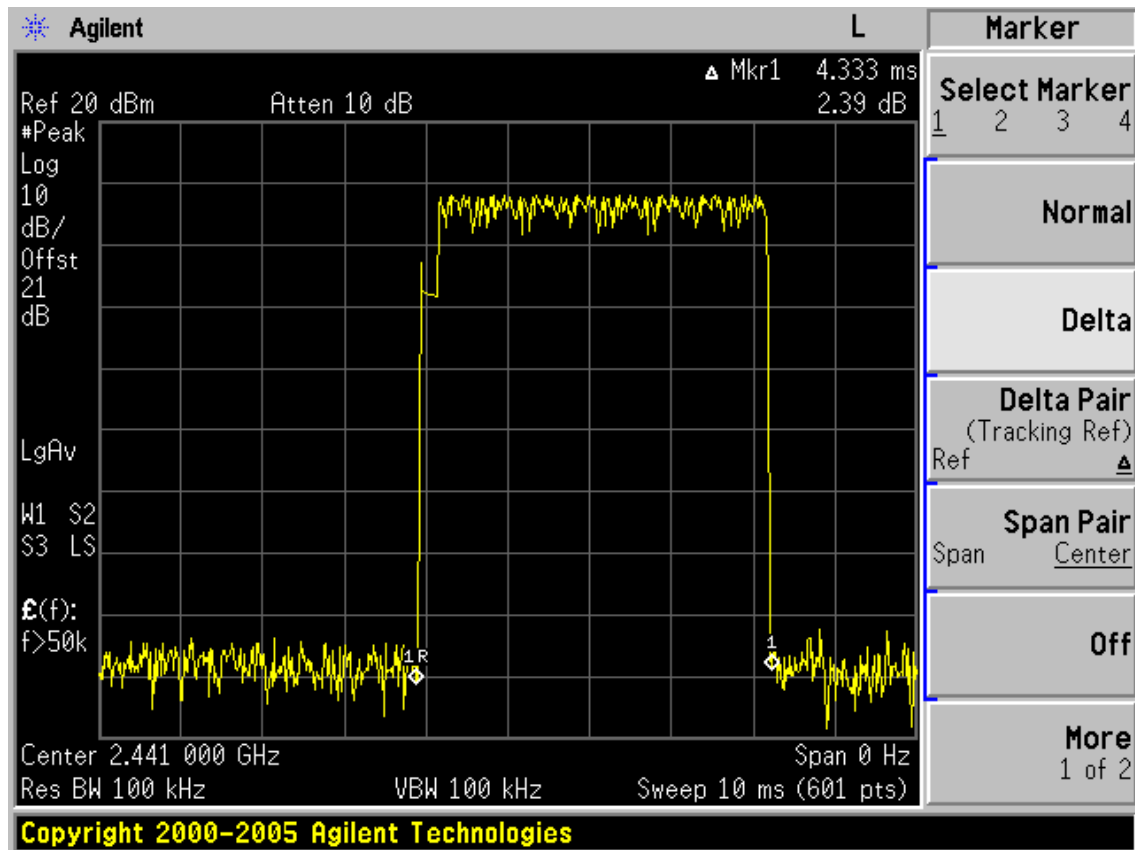


DH 3



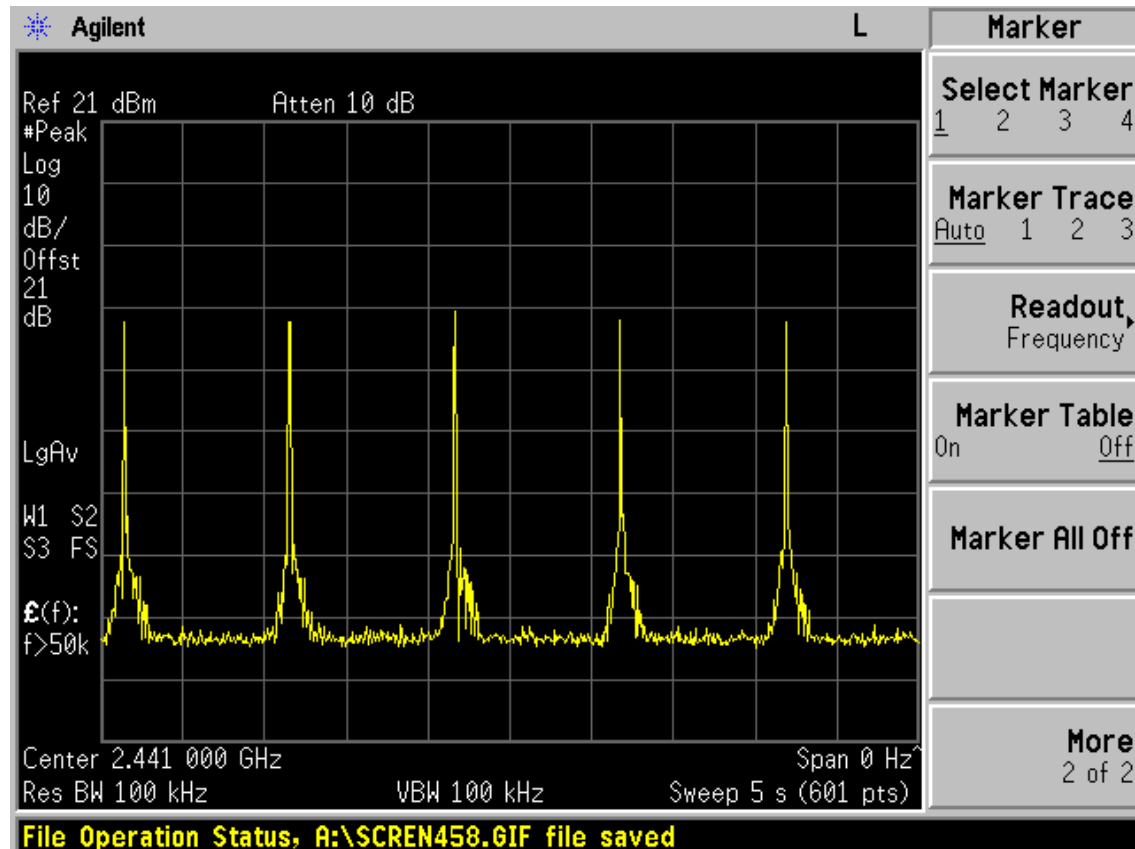


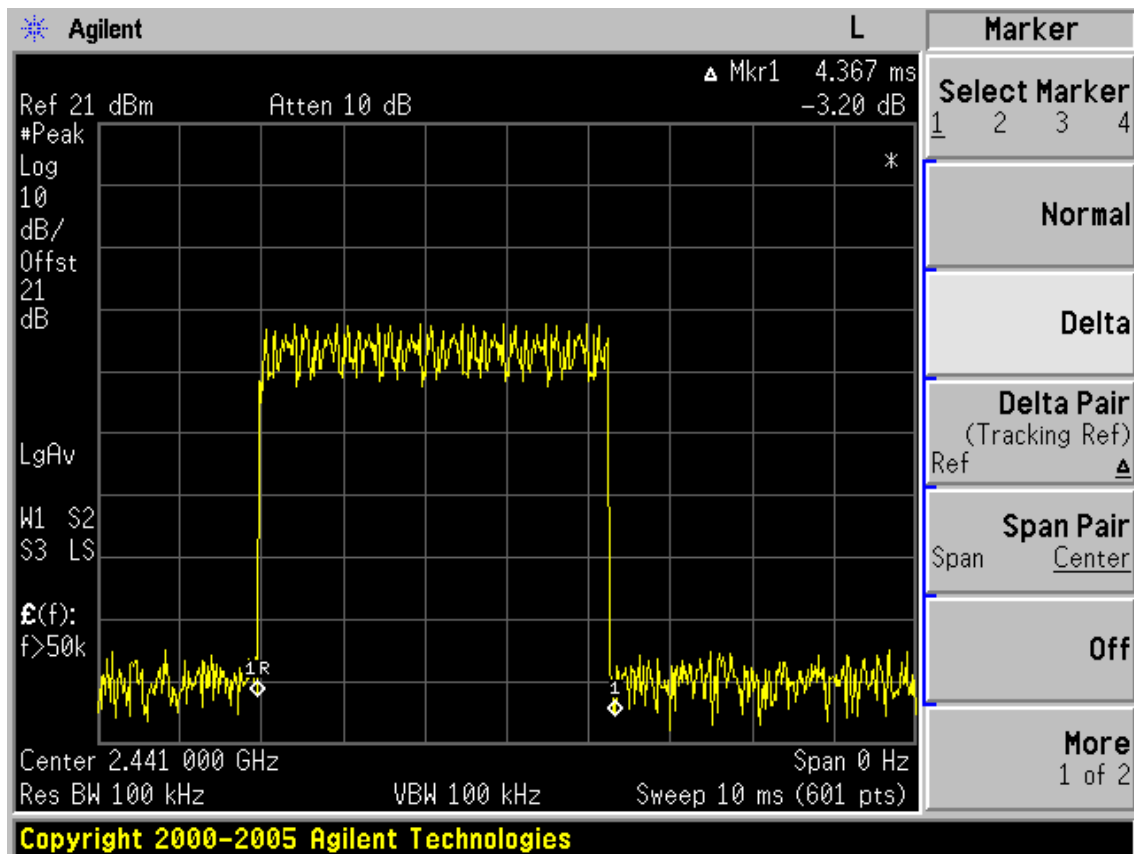
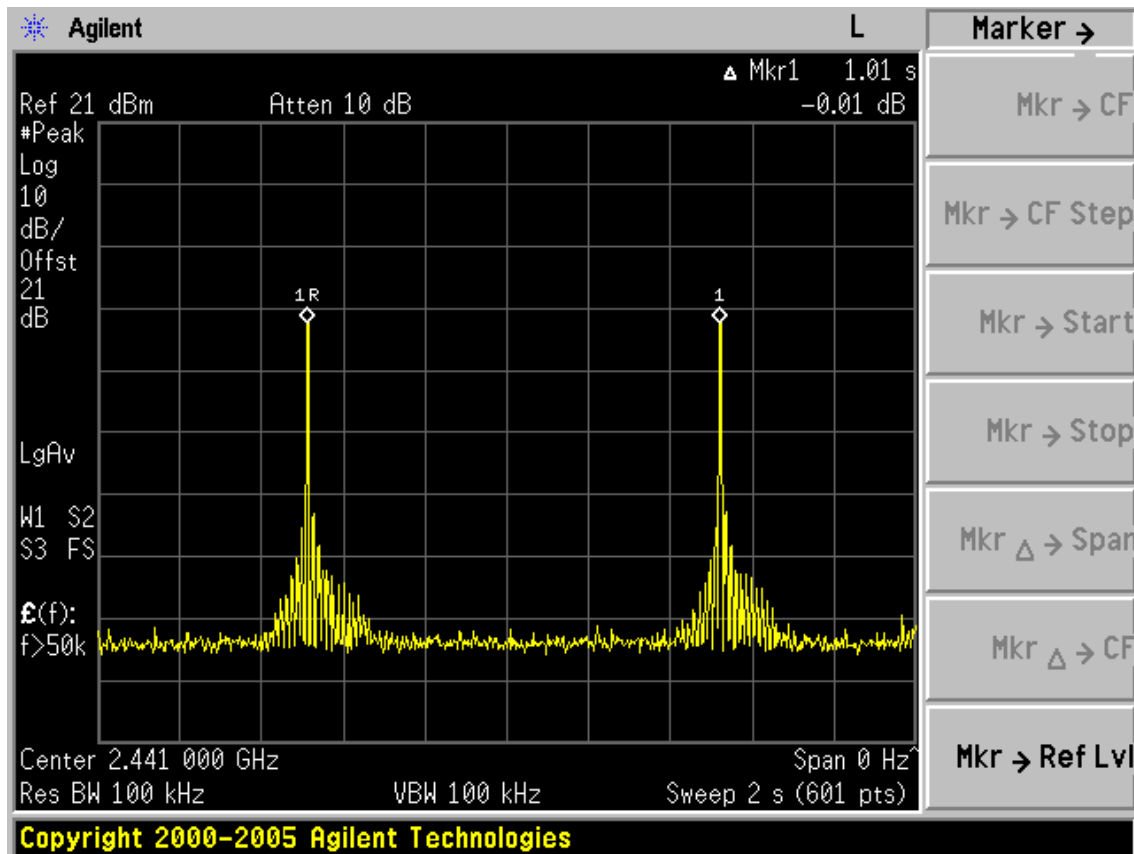




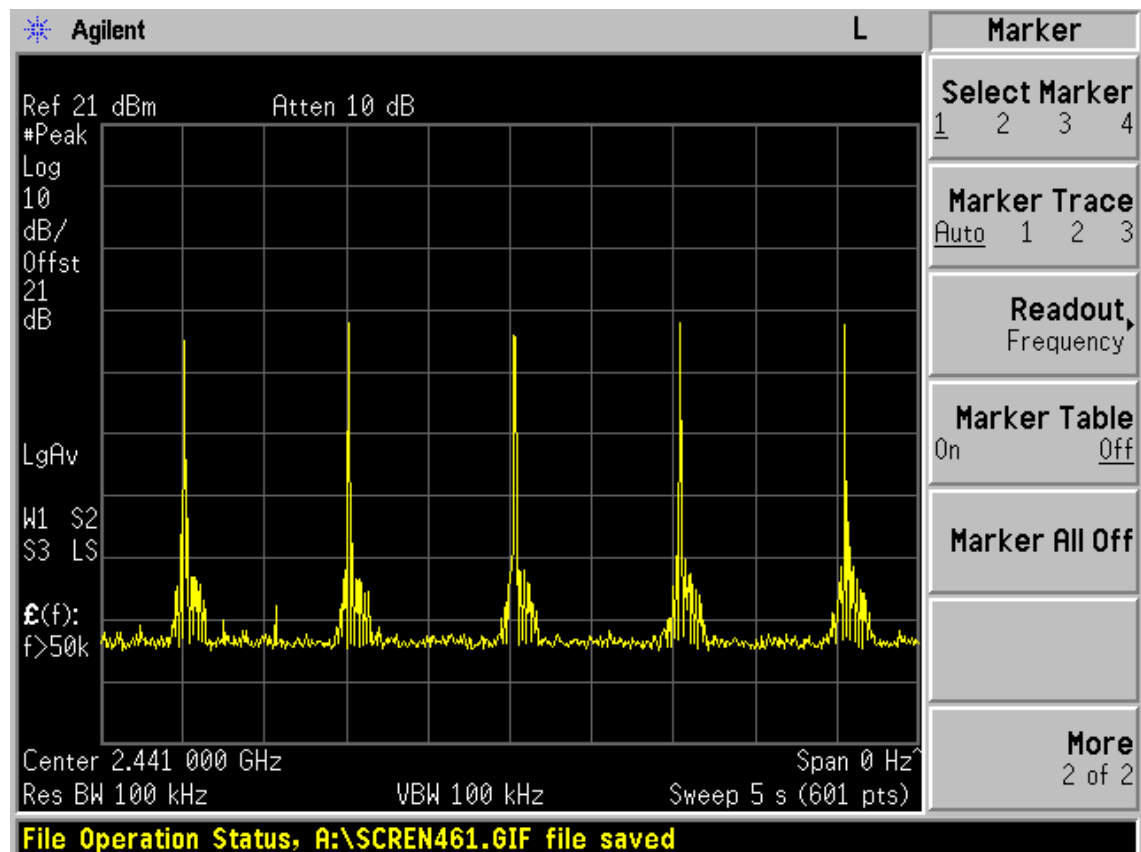
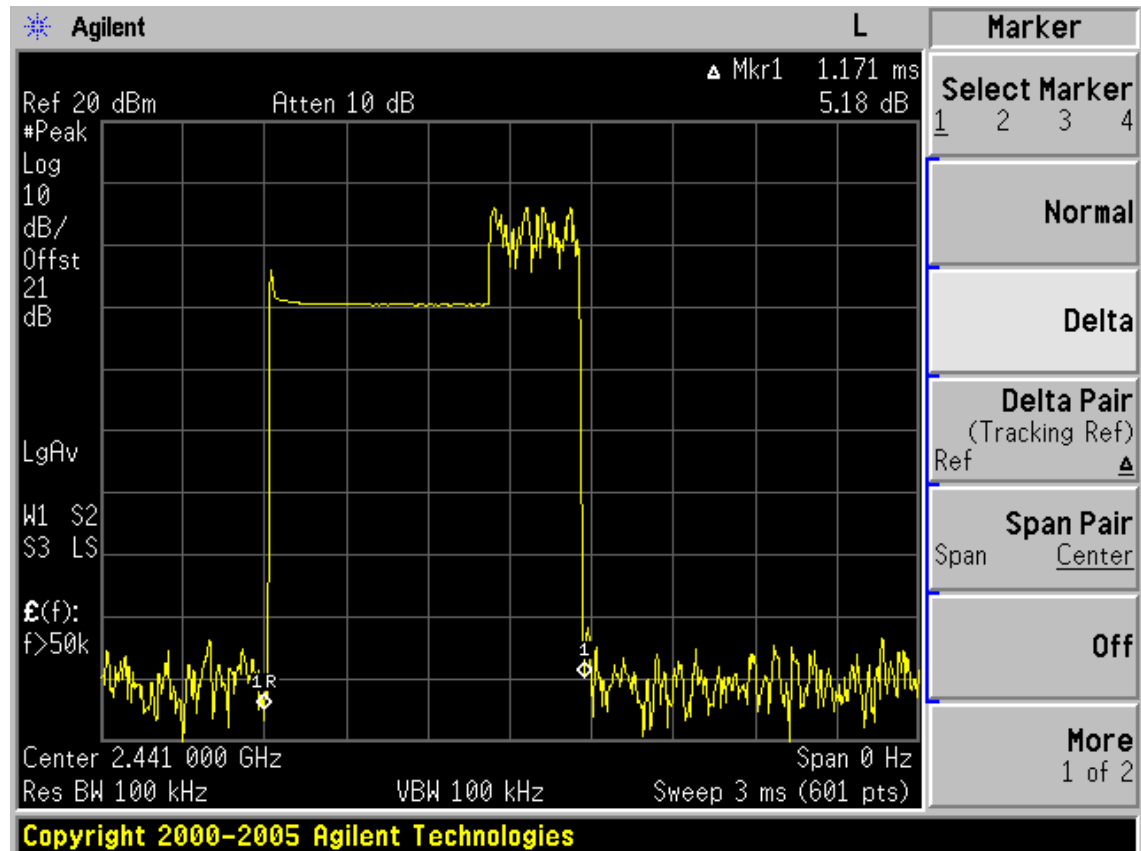
Test Mode: 8-DPSK

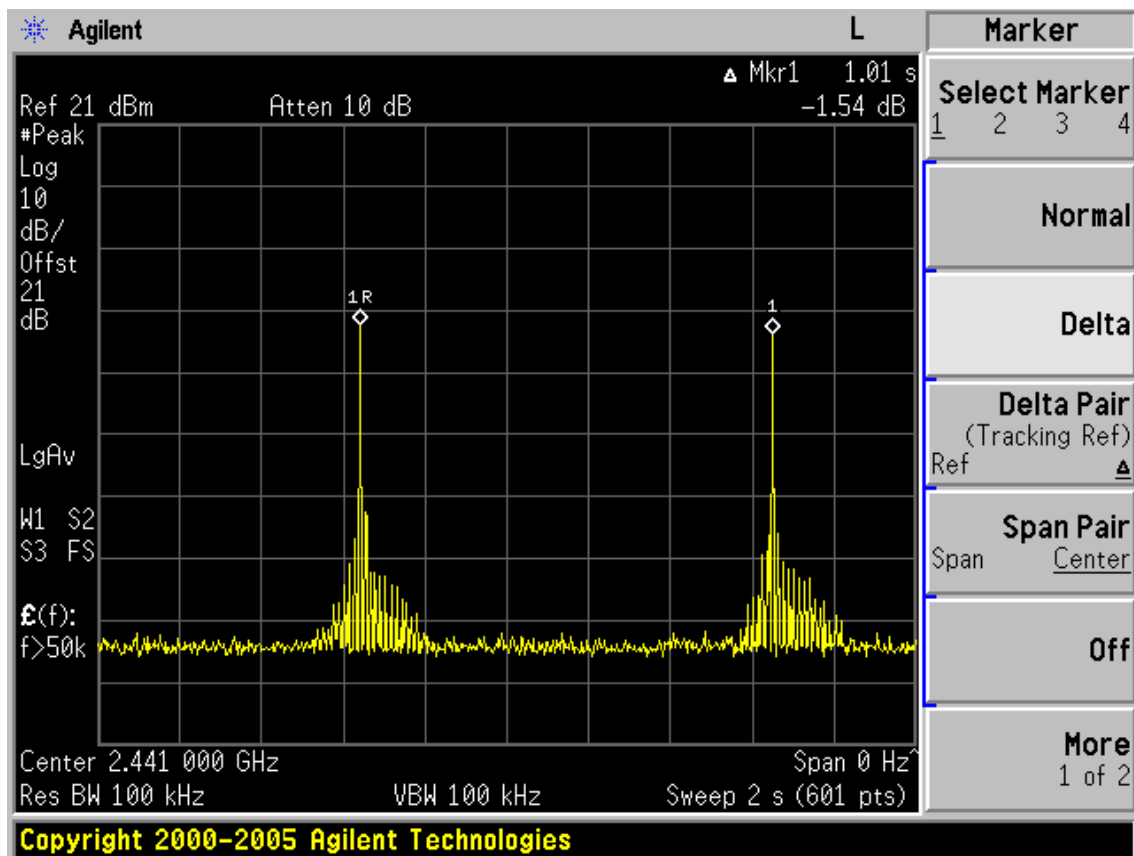
3DH1



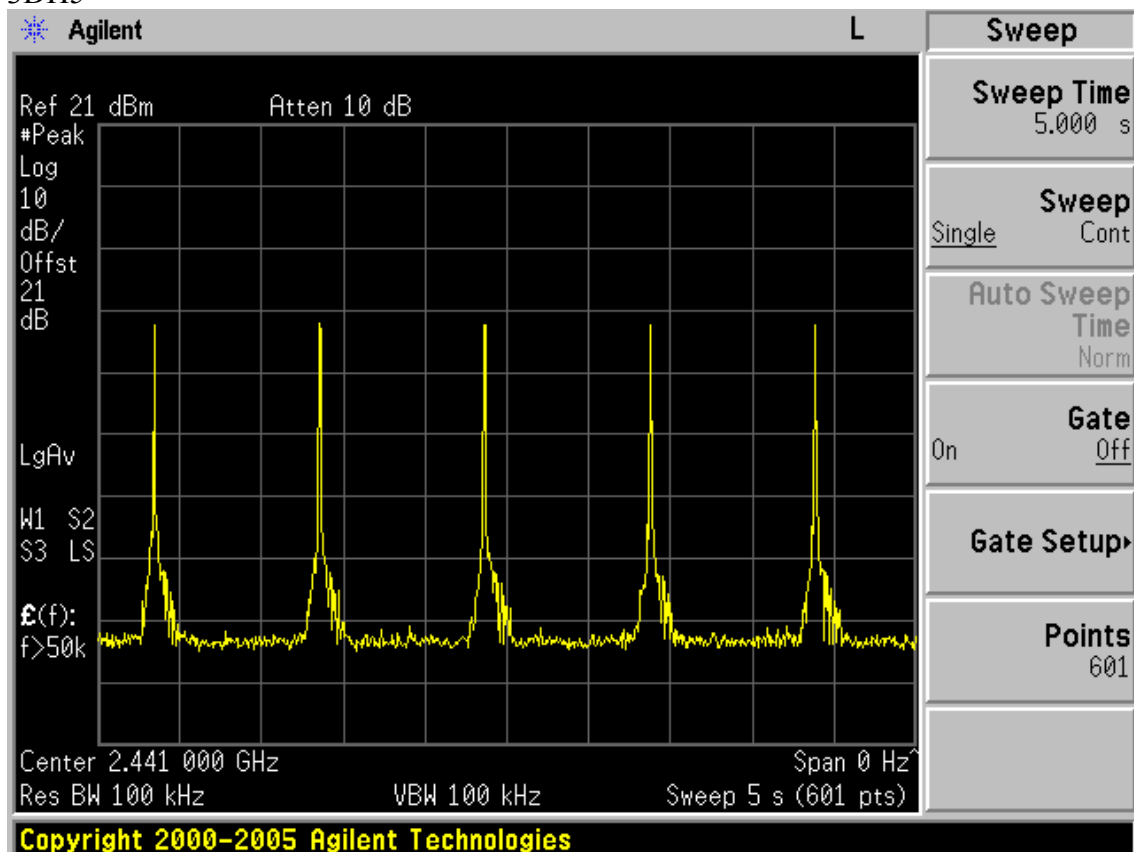


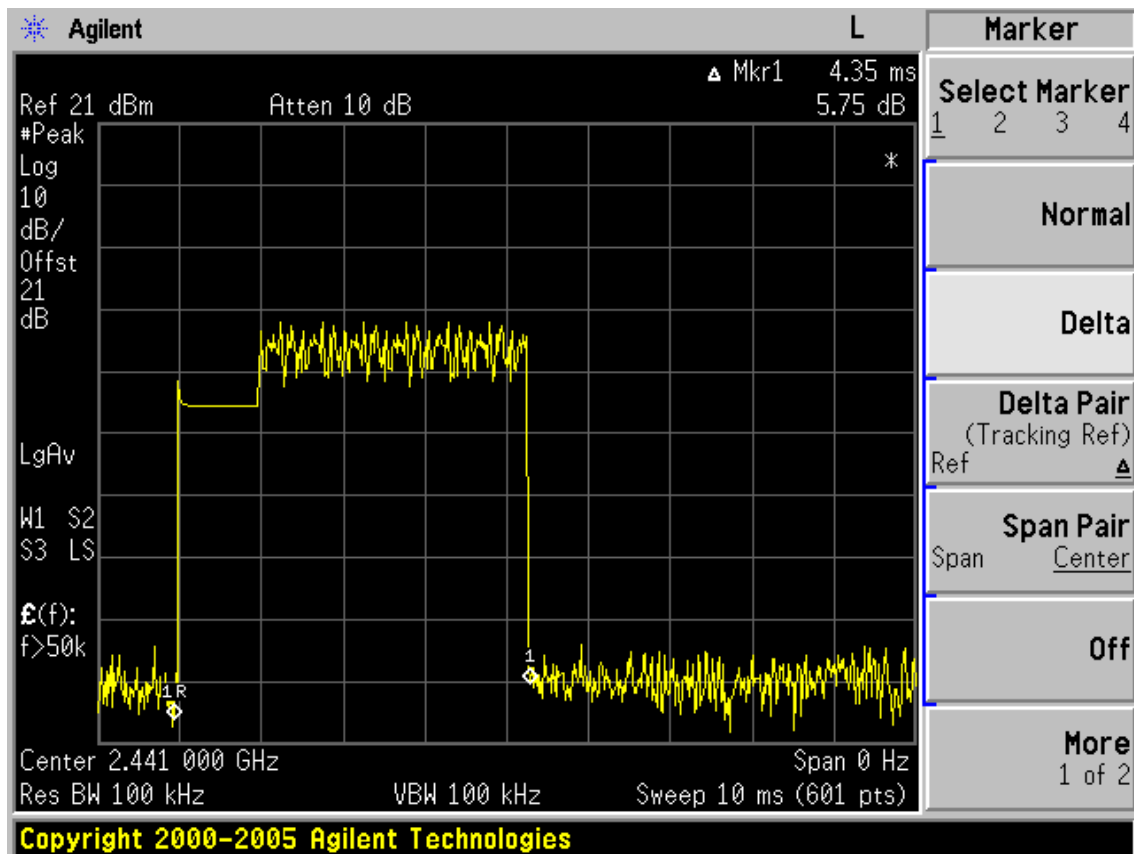
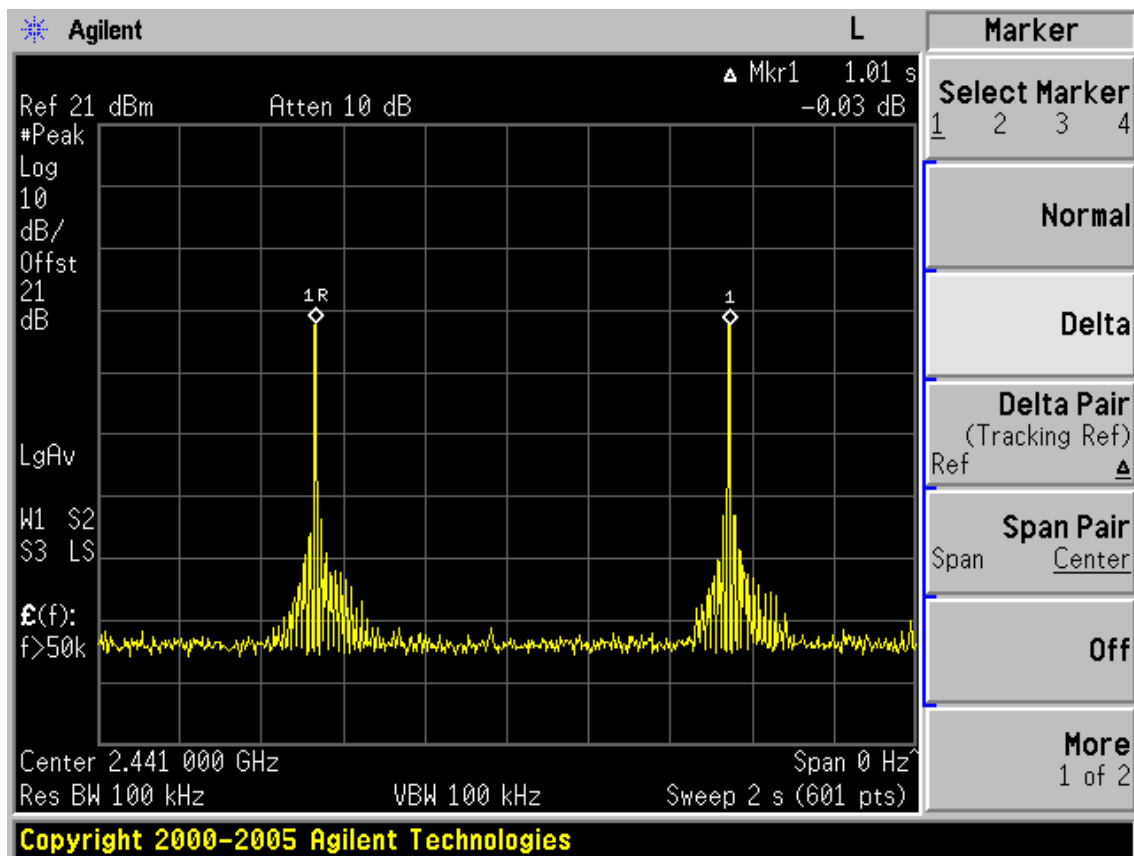
3DH3





3DH5





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, 12	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 12	1 Year
3.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	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

1. Connected the EUT's antenna port to spectrum analyzer.
2. Set the RBW> Bandwidth of test Frequency and put the test Frequency, Set the Span large enough to capture the entire signal
3. Use a peak detector on max hold
4. Reading the value from the Spectrum analyzer

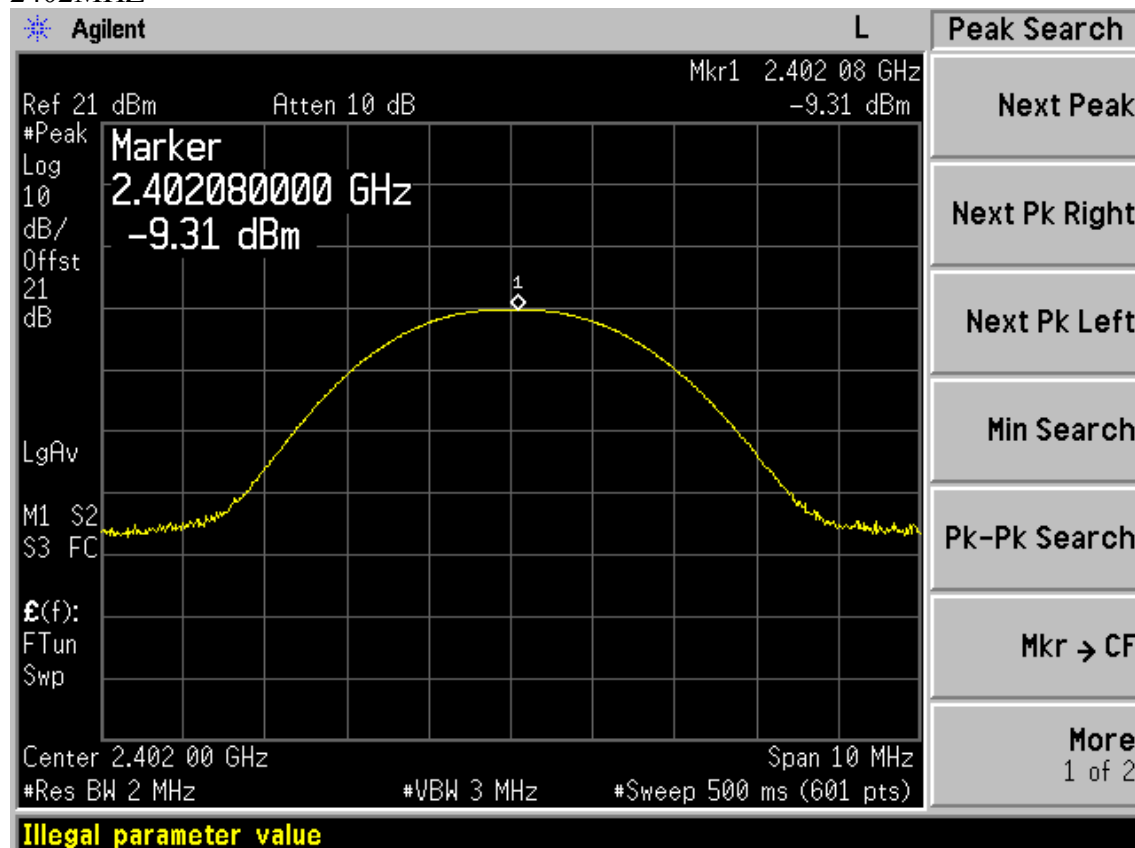
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

10.4. Test Results

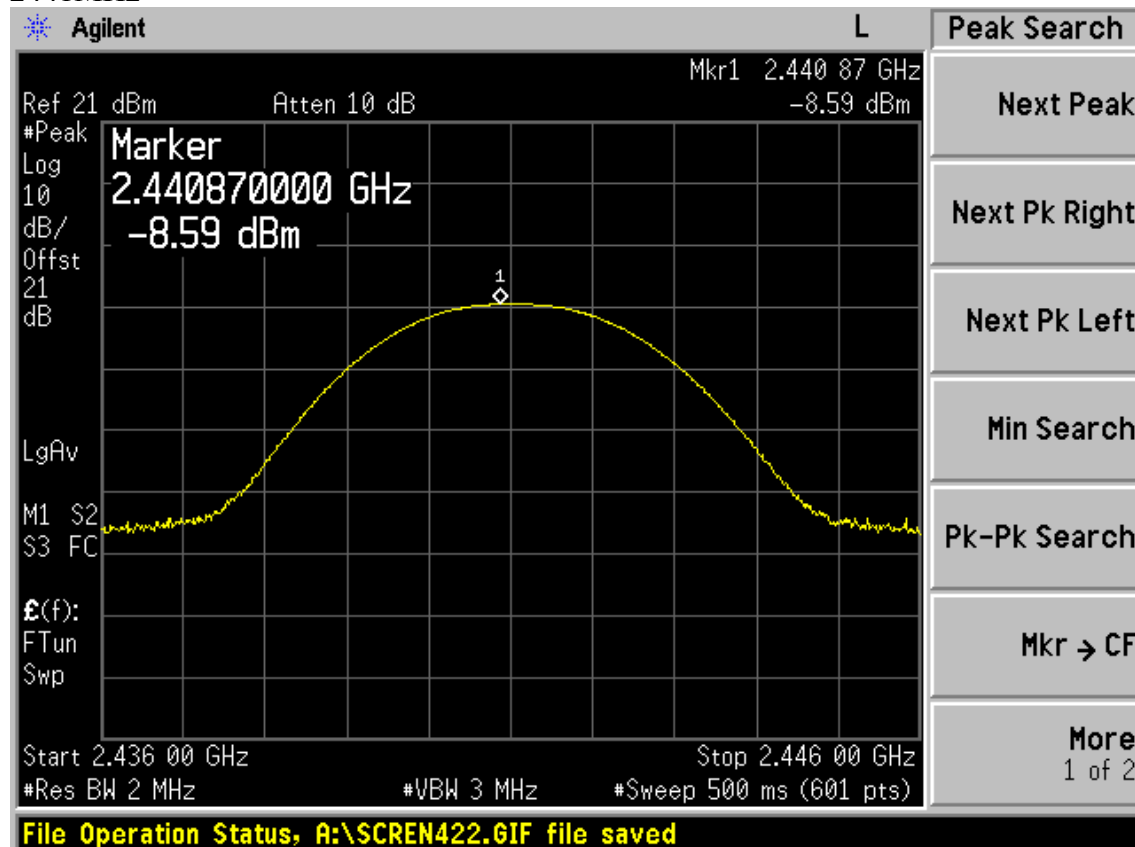
EUT: GC-2 Wireless Controller			
M/N: GC2PS3-11			
Test date: 2012-12-04	Pressure: 101 kpa	Humidity: 52±3.0%	
Tested by: Leo-Li	Test site: RF site	Temperature: 24±0.6 °C	
Cable loss: 1.0 dB		Attenuator loss: 20 dB	
Test Mode	Frequency (MHz)	Peak output Power (dBm)	Limit (dBm)
GFSK	2402	-9.31	30
	2441	-8.59	30
	2480	-11.97	30
8DPSK	2402	-5.03	30
	2441	-5.42	30
	2480	-10.54	30
Conclusion: PASS			

GFSK

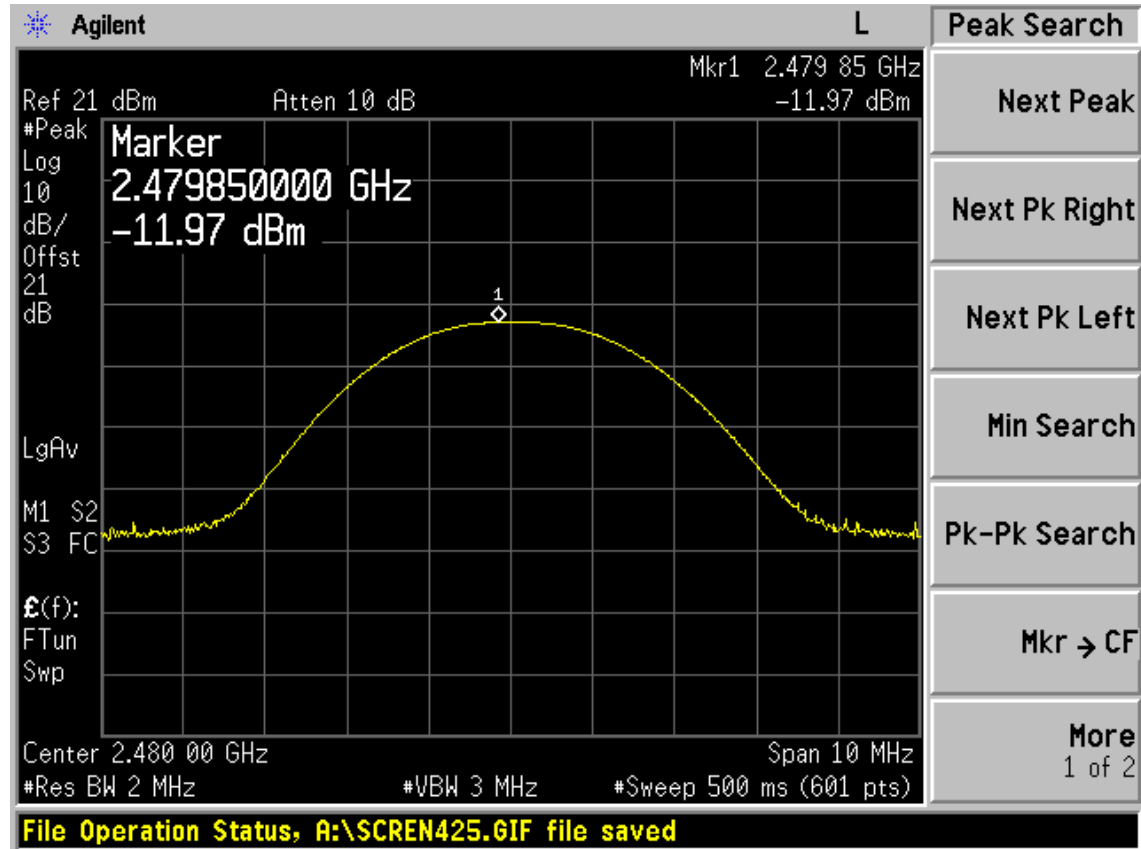
2402MHz



2441MHz

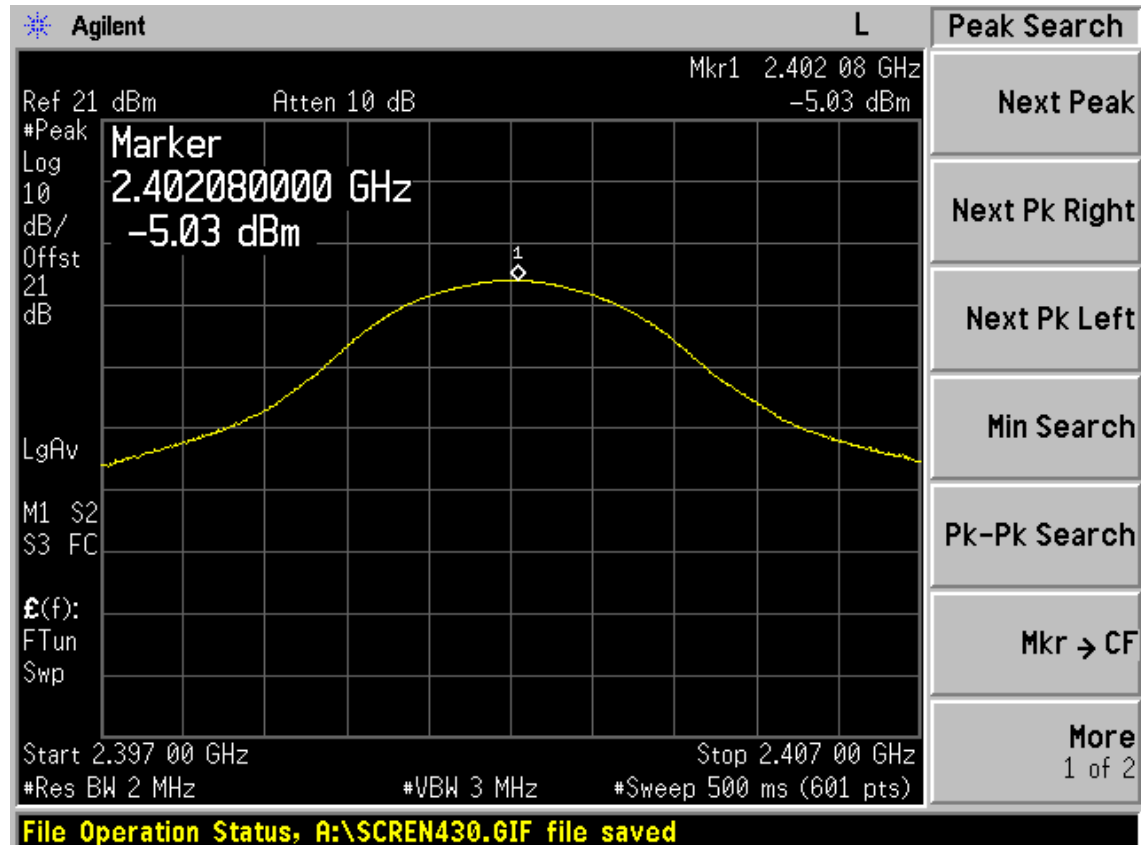


2480MHz

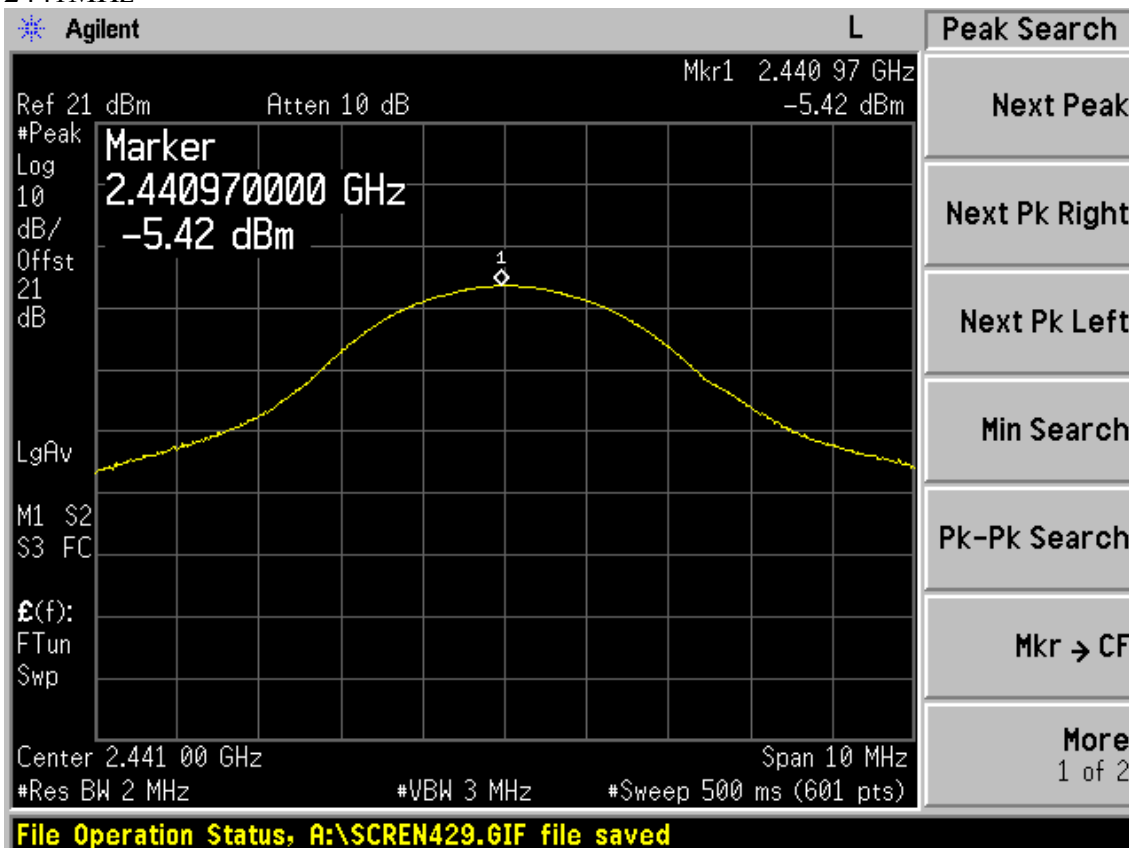


8-DPSK

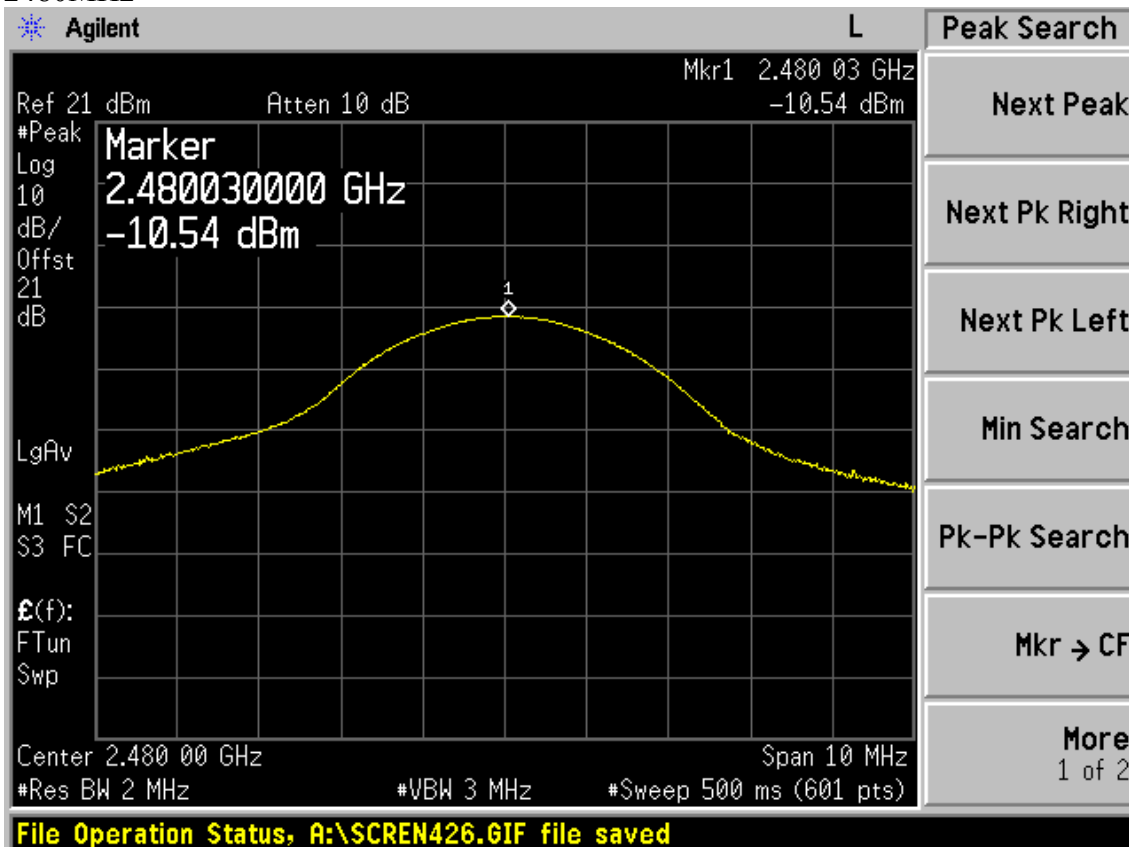
2402MHz



2441MHz



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, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.31, 11	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year

11.2. Limit

All the lower and upper band-edges emissions should comply with the radiated emission limit 15.209.

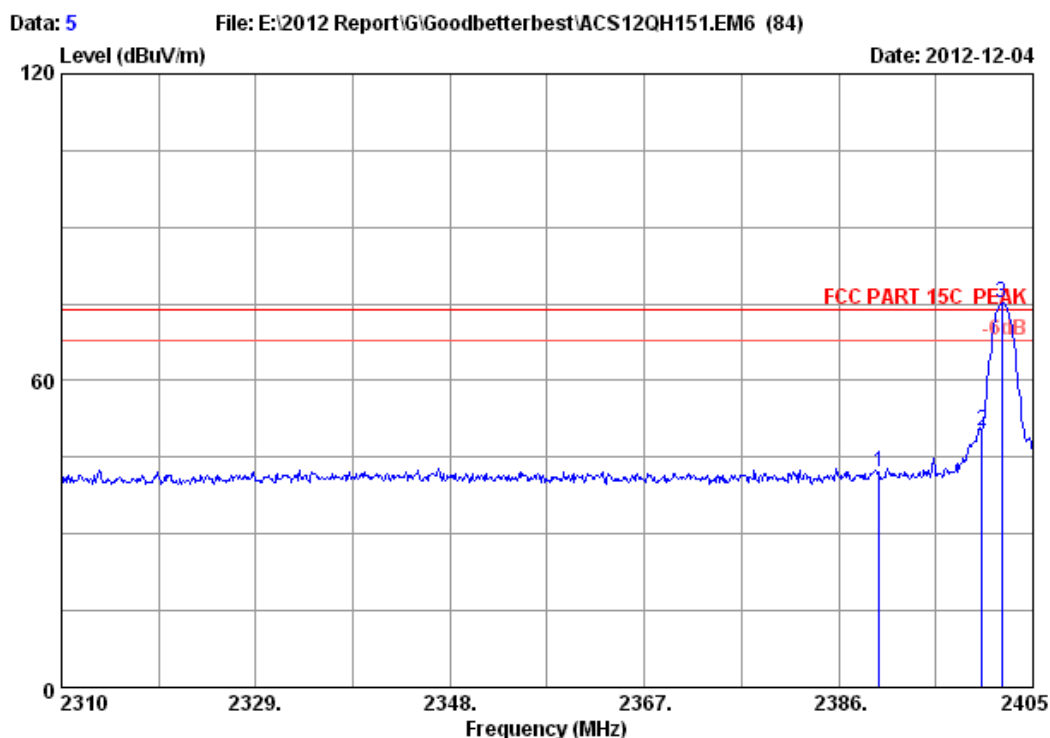
11.3. Test Produce

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)AV: RBW=1MHz; VBW=10Hz; PK detector; Sweep: AUTO

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.

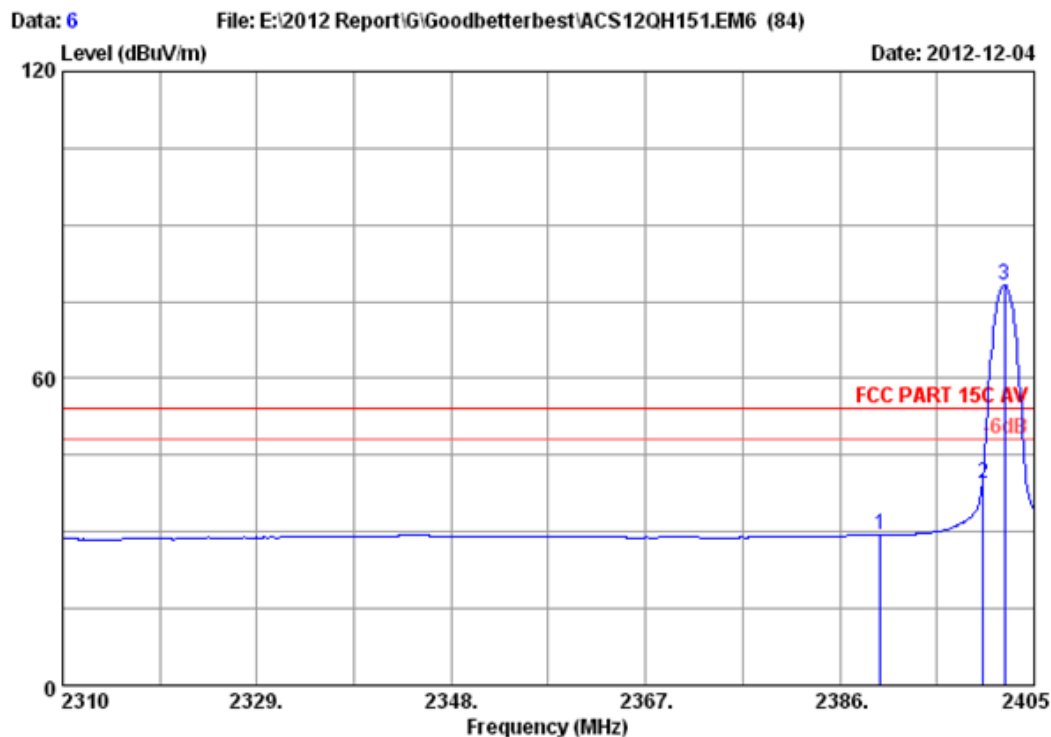


Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : 8-DPSK 2402MHz Tx Mode
 M/N : GC2PS3-11

	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	26.70	6.00	35.92	45.24	42.02	74.00	31.98	Peak
2	2400.000	26.76	6.02	35.92	53.13	49.99	74.00	24.01	Peak
3	2401.960	26.77	6.02	35.92	78.31	75.18	74.00	-1.18	Peak

Remarks:

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

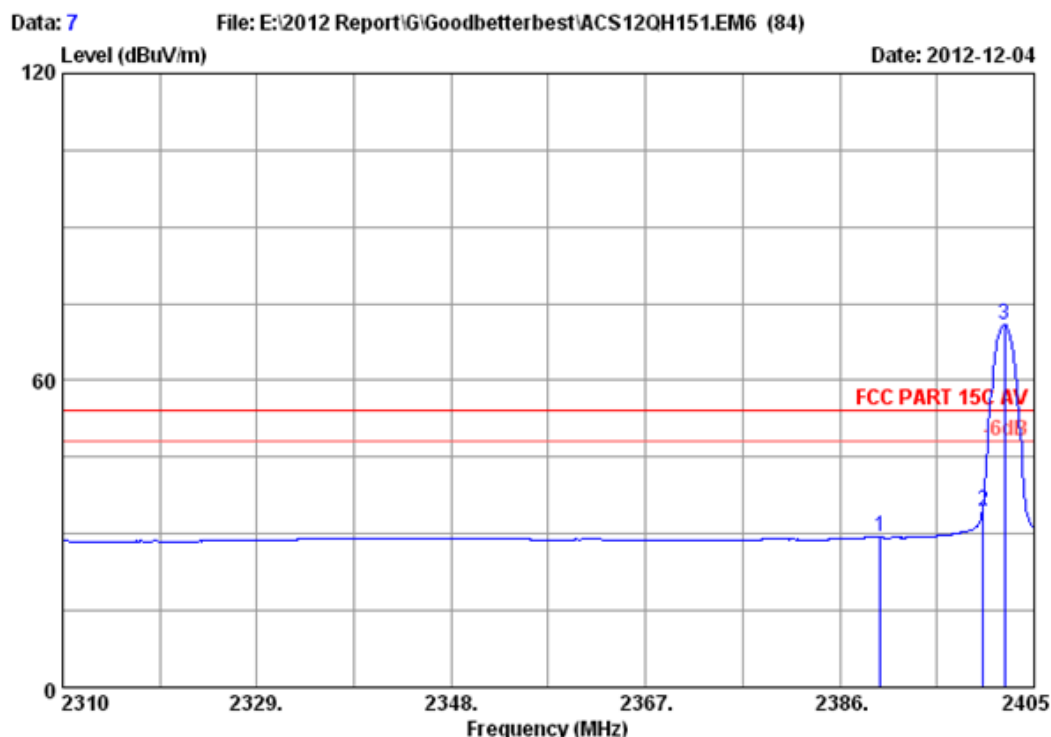


Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : 8-DPSK 2402MHz Tx Mode
 M/N : GC2PS3-11

	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	26.70	6.00	35.92	32.64	29.42	54.00	24.58	Average
2	2400.000	26.76	6.02	35.92	42.68	39.54	54.00	14.46	Average
3	2402.150	26.77	6.02	35.92	81.28	78.15	54.00	-24.15	Average

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.

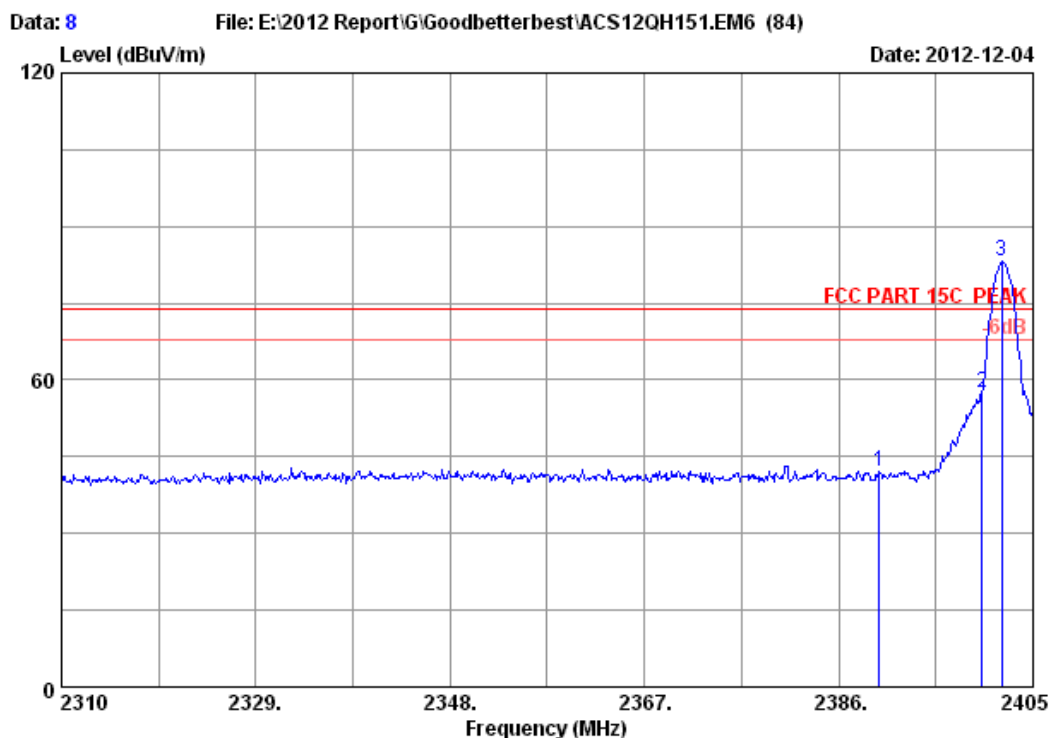


Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : 8-DPSK 2402MHz Tx Mode
 M/N : GC2PS3-11

	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	26.70	6.00	35.92	32.50	29.28	54.00	24.72	Average
2	2400.000	26.76	6.02	35.92	37.60	34.46	54.00	19.54	Average
3	2402.150	26.77	6.02	35.92	73.94	70.81	54.00	-16.81	Average

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.

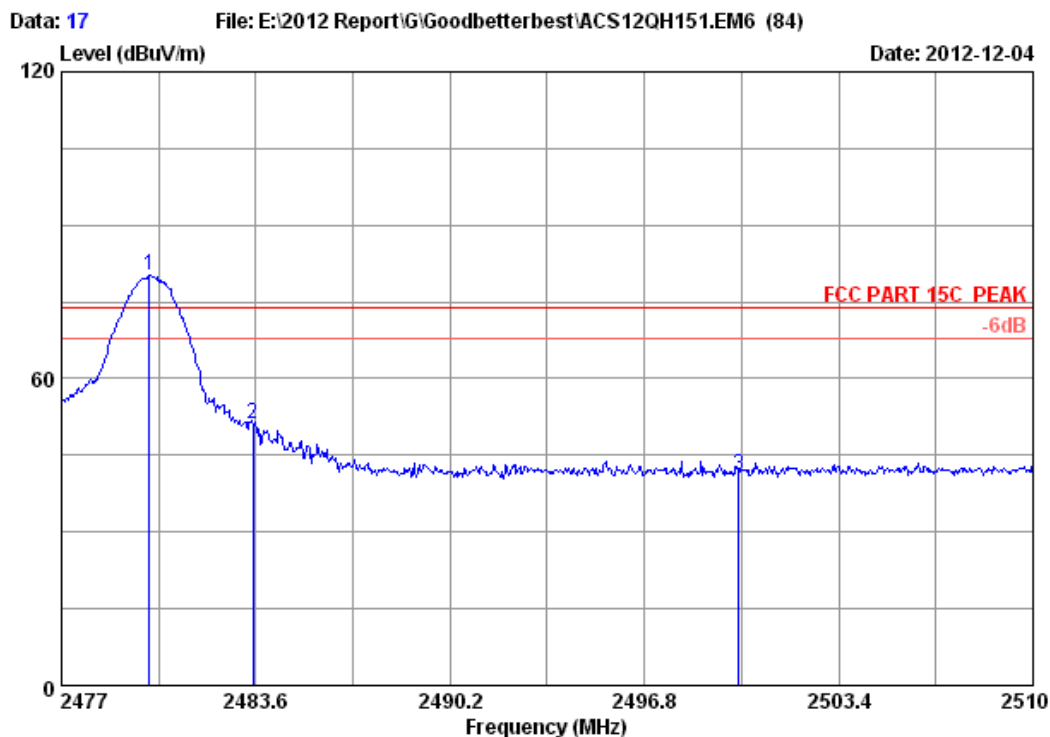


Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : 8-DPSK 2402MHz Tx Mode
 M/N : GC2PS3-11

	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	26.70	6.00	35.92	45.23	42.01	74.00	31.99	Peak
2	2400.000	26.76	6.02	35.92	60.54	57.40	74.00	16.60	Peak
3	2401.960	26.77	6.02	35.92	86.24	83.11	74.00	-9.11	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.

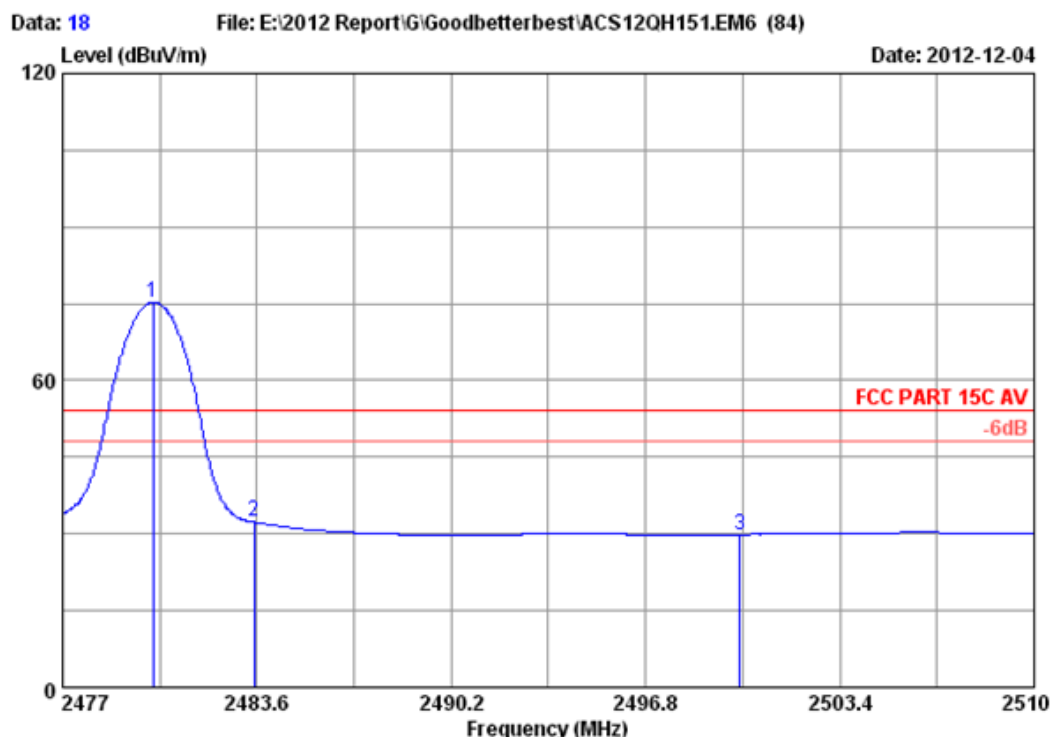


Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : 8-DPSK 2480MHz Tx Mode
 M/N : GC2PS3-11

	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	2479.970	27.27	6.15	35.92	82.82	80.32	74.00	-6.32	Peak
2	2483.500	27.29	6.16	35.92	53.61	51.14	74.00	22.86	Peak
3	2500.000	27.40	6.19	35.93	43.54	41.20	74.00	32.80	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.

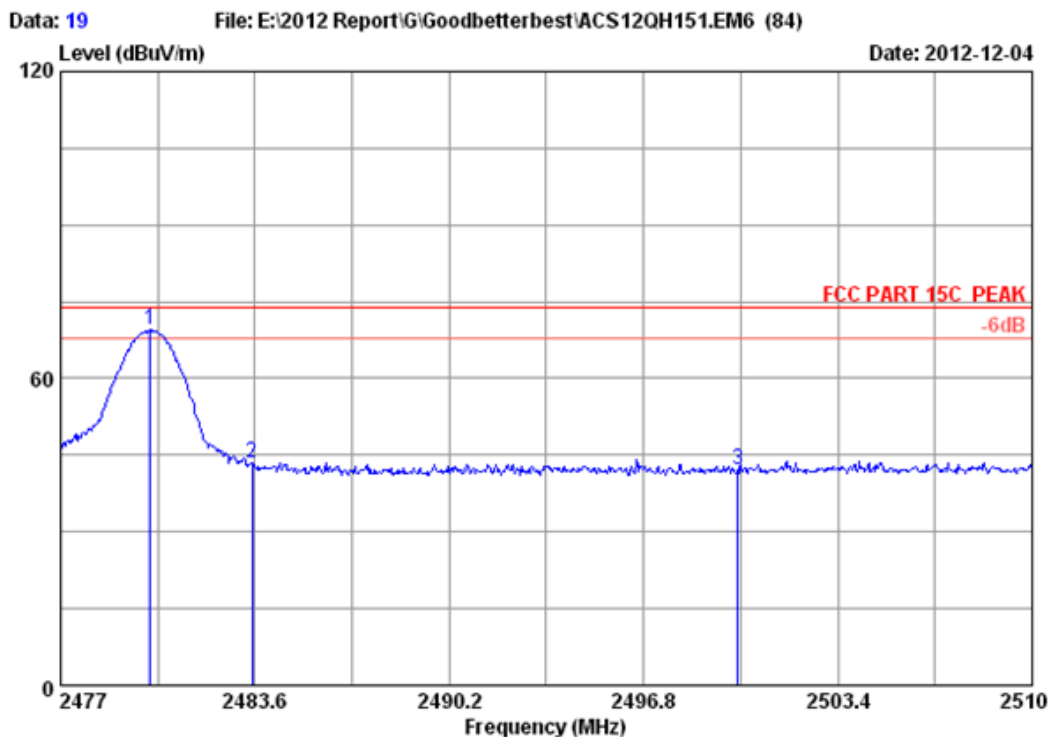


Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : 8-DPSK 2480MHz Tx Mode
 M/N : GC2PS3-11

	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	2480.069	27.27	6.15	35.92	77.70	75.20	54.00	-21.20	Average
2	2483.500	27.29	6.16	35.92	34.74	32.27	54.00	21.73	Average
3	2500.000	27.40	6.19	35.93	32.20	29.86	54.00	24.14	Average

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.

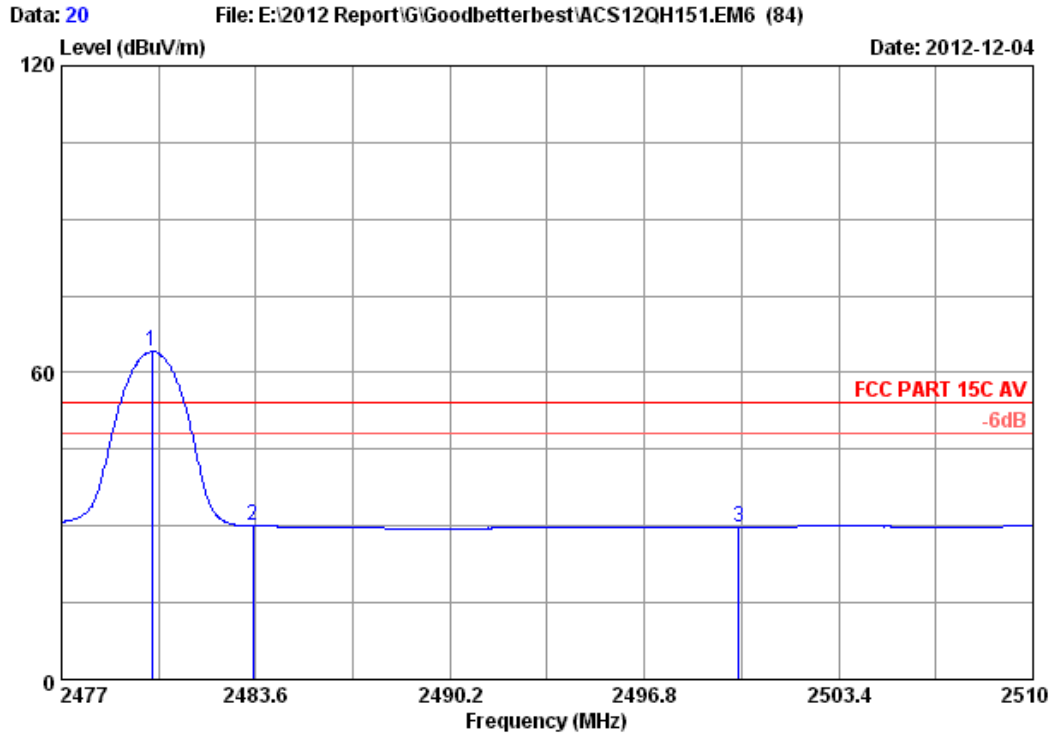


Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : 8-DPSK 2480MHz Tx Mode
 M/N : GC2PS3-11

	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	27.27	6.15	35.92	72.06	69.56	74.00	4.44	Peak
2	2483.500	27.29	6.16	35.92	45.93	43.46	74.00	30.54	Peak
3	2500.000	27.40	6.19	35.93	44.47	42.13	74.00	31.87	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.

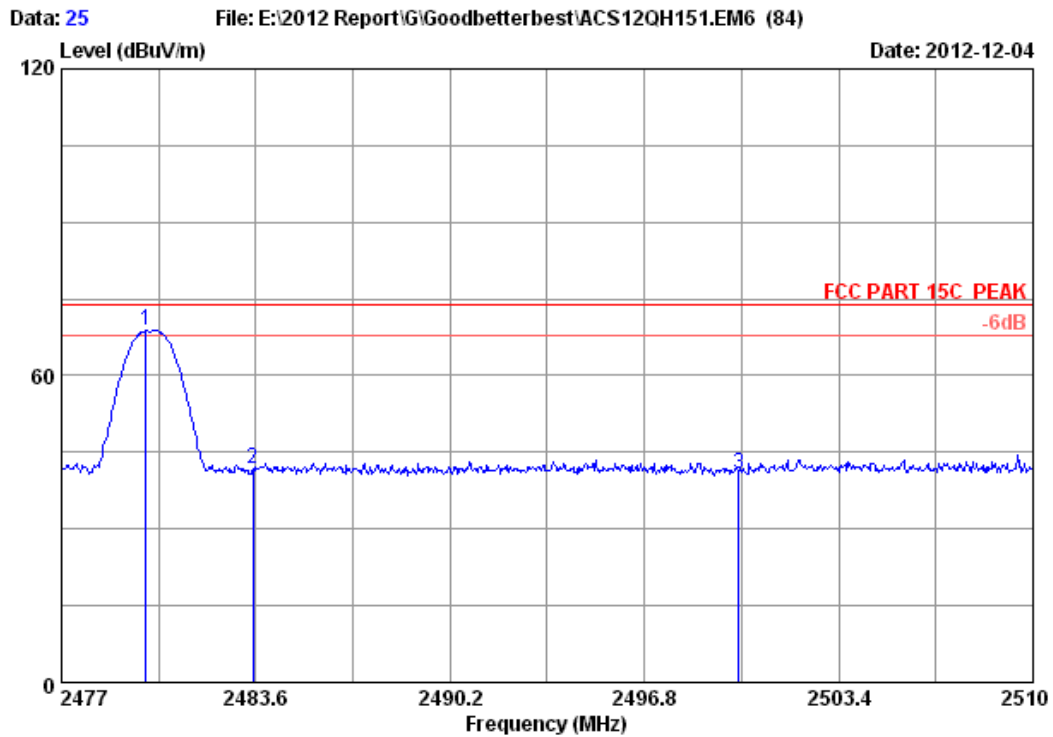


Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : 8-DPSK 2480MHz Tx Mode
 M/N : GC2PS3-11

	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	2480.069	27.27	6.15	35.92	66.57	64.07	54.00	-10.07	Peak
2	2483.500	27.29	6.16	35.92	32.47	30.00	54.00	24.00	Peak
3	2500.000	27.40	6.19	35.93	32.01	29.67	54.00	24.33	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.

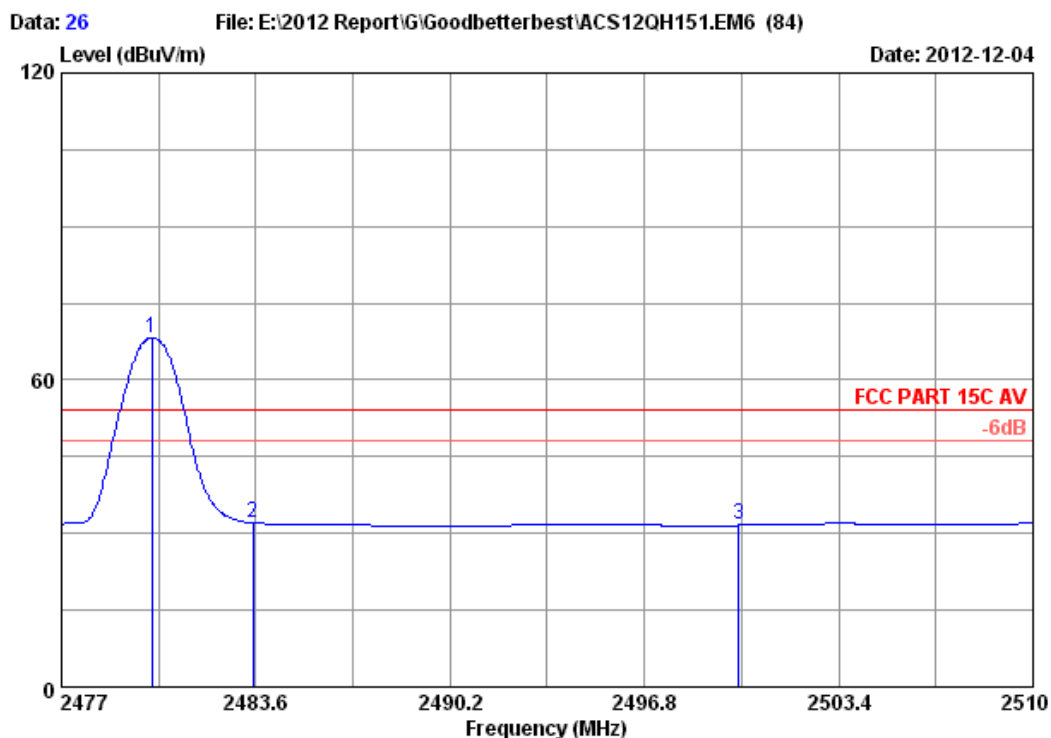


Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : GFSK 2480MHz Tx Mode
 M/N : GC2PS3-11

	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	2479.871	27.27	6.15	35.92	71.33	68.83	74.00	5.17	Peak
2	2483.500	27.29	6.16	35.92	44.35	41.88	74.00	32.12	Peak
3	2500.000	27.40	6.19	35.93	43.19	40.85	74.00	33.15	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.

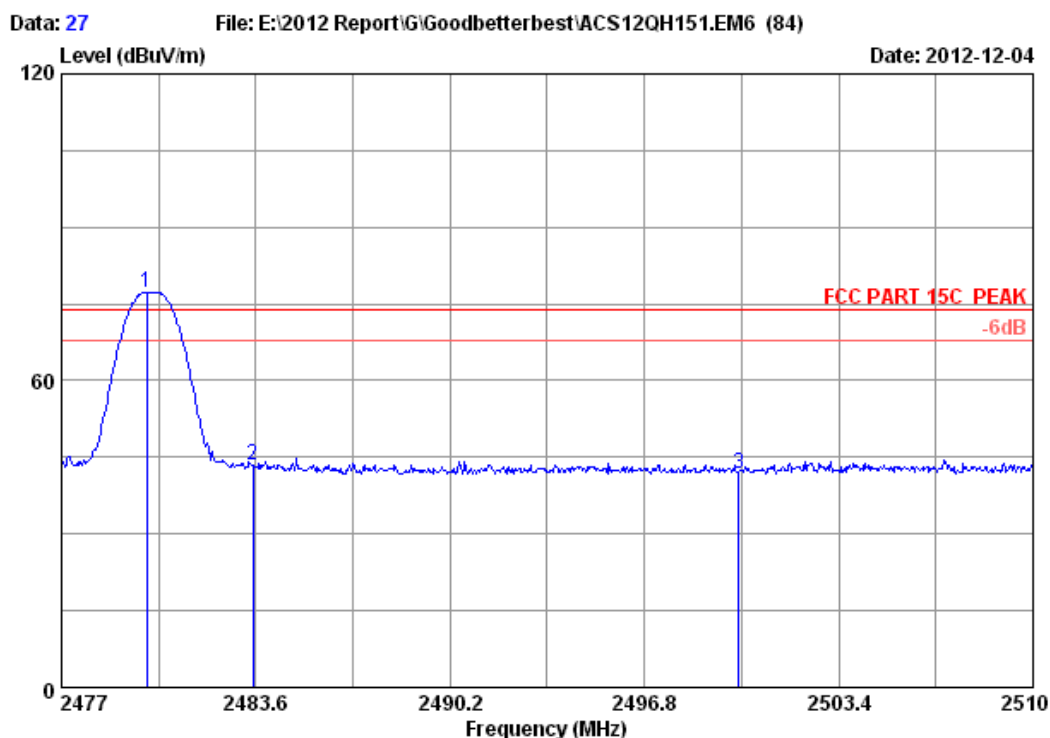


Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : GFSK 2480MHz Tx Mode
 M/N : GC2PS3-11

	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	2480.069	27.27	6.15	35.92	70.73	68.23	54.00	-14.23	Average
2	2483.500	27.29	6.16	35.92	34.55	32.08	54.00	21.92	Average
3	2500.000	27.40	6.19	35.93	33.94	31.60	54.00	22.40	Average

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.

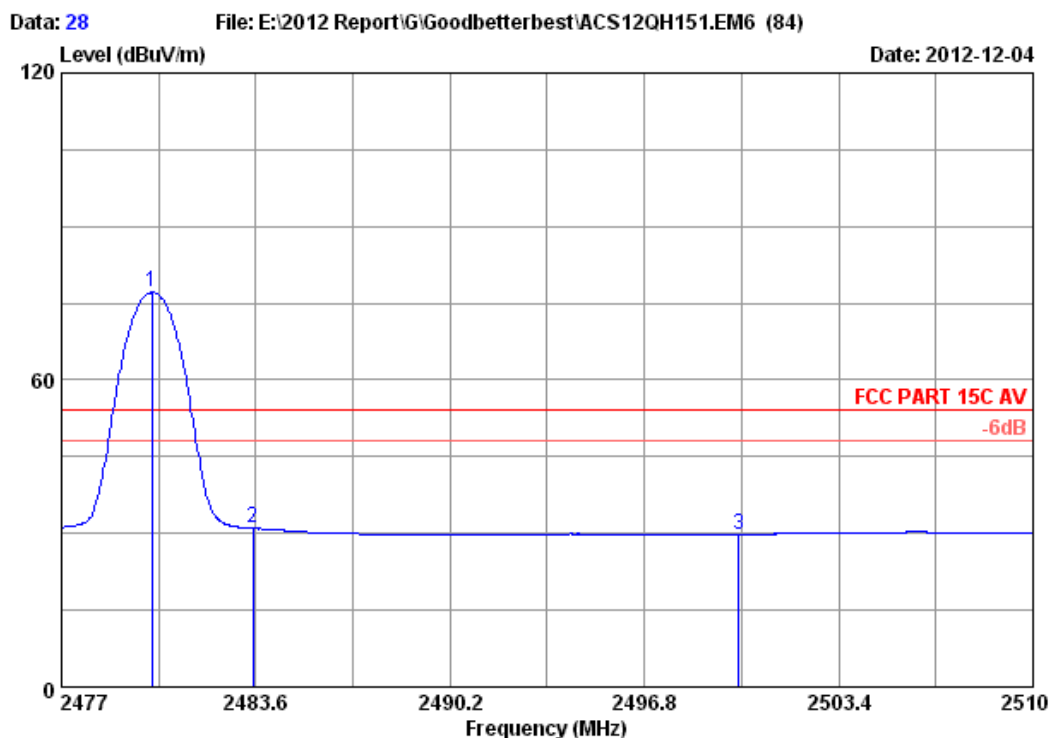


Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : GFSK 2480MHz Tx Mode
 M/N : GC2PS3-11

	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	2479.904	27.27	6.15	35.92	79.87	77.37	74.00	-3.37	Peak
2	2483.500	27.29	6.16	35.92	45.78	43.31	74.00	30.69	Peak
3	2500.000	27.40	6.19	35.93	44.25	41.91	74.00	32.09	Peak

Remarks:

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

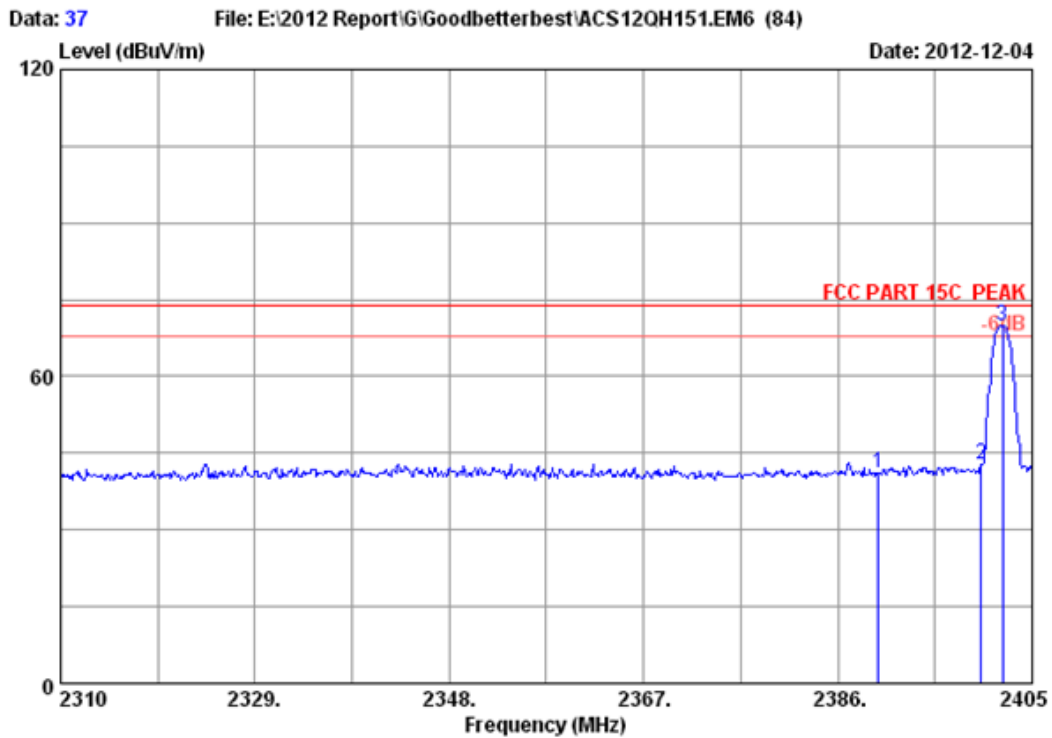


Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : GFSK 2480MHz Tx Mode
 M/N : GC2PS3-11

	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	2480.069	27.27	6.15	35.92	79.59	77.09	54.00	-23.09	Average
2	2483.500	27.29	6.16	35.92	33.43	30.96	54.00	23.04	Average
3	2500.000	27.40	6.19	35.93	32.12	29.78	54.00	24.22	Average

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.

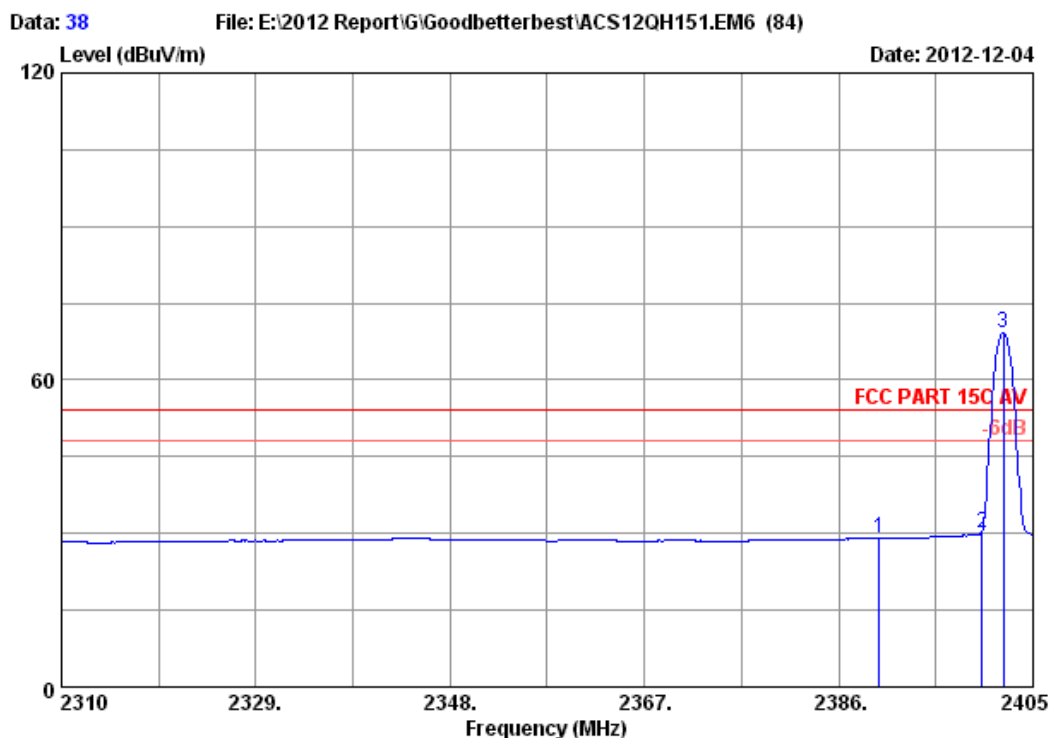


Site no. : 3m Chamber Data no. : 37
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : GFSK 2402MHz Tx Mode
 M/N : GC2PS3-11

	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	26.70	6.00	35.92	44.46	41.24	74.00	32.76	Peak
2	2400.000	26.76	6.02	35.92	45.82	42.68	74.00	31.32	Peak
3	2402.150	26.77	6.02	35.92	72.98	69.85	74.00	4.15	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.

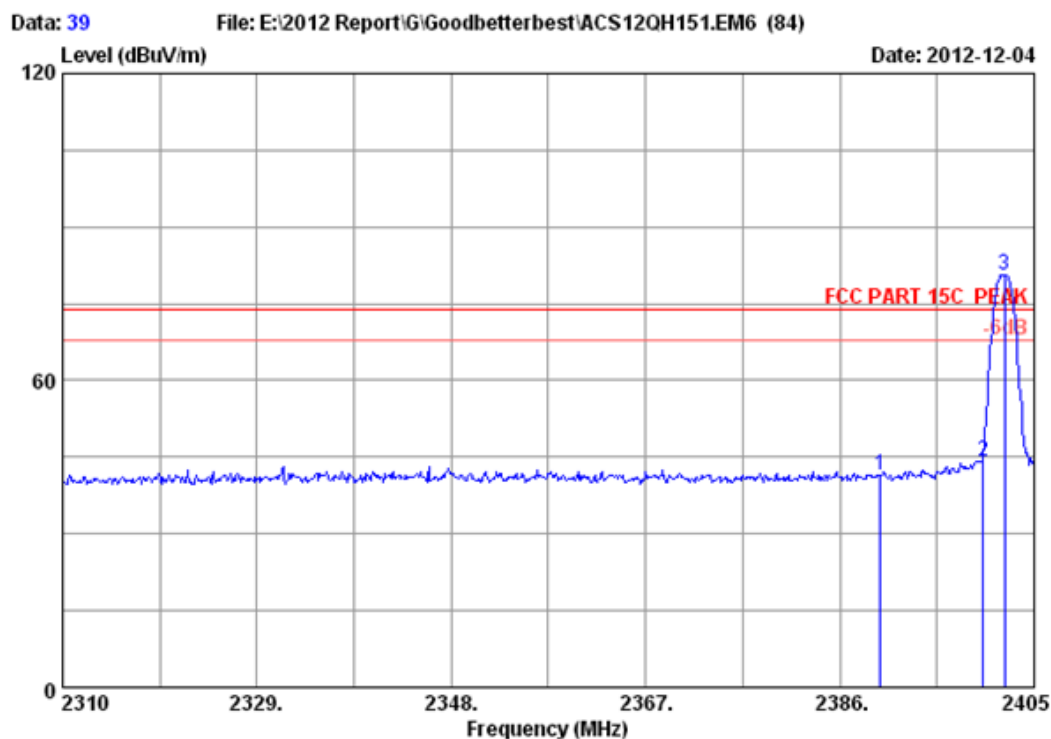


Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : GFSK 2402MHz Tx Mode
 M/N : GC2PS3-11

	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	26.70	6.00	35.92	32.27	29.05	54.00	24.95	Average
2	2400.000	26.76	6.02	35.92	33.27	30.13	54.00	23.87	Average
3	2402.150	26.77	6.02	35.92	72.27	69.14	54.00	-15.14	Average

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.

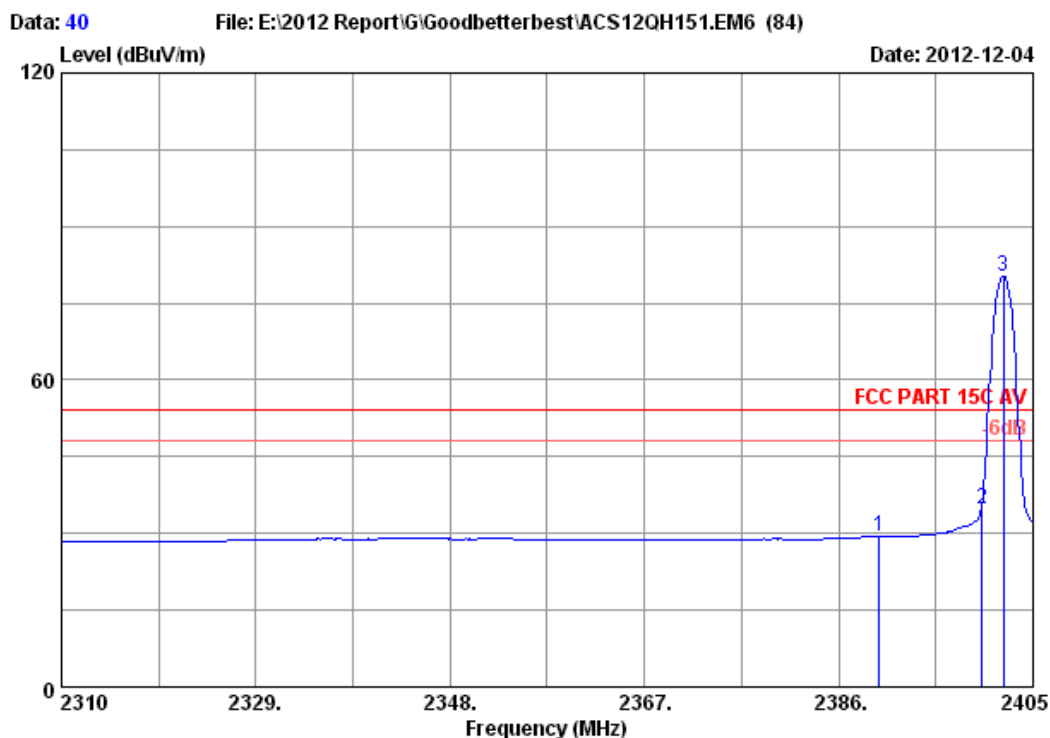


Site no. : 3m Chamber Data no. : 39
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : GFSK 2402MHz Tx Mode
 M/N : GC2PS3-11

	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	26.70	6.00	35.92	44.61	41.39	74.00	32.61	Peak
2	2400.000	26.76	6.02	35.92	47.26	44.12	74.00	29.88	Peak
3	2402.150	26.77	6.02	35.92	83.72	80.59	74.00	-6.59	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. : 40
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Tony-Yan
 EUT : GC-2 wireless Controller
 Power supply : DC 5V From PS3 Input AC 120V/60Hz
 Test mode : GFSK 2402MHz Tx Mode
 M/N : GC2PS3-11

	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	26.70	6.00	35.92	32.51	29.29	54.00	24.71	Average
2	2400.000	26.76	6.02	35.92	37.90	34.76	54.00	19.24	Average
3	2402.150	26.77	6.02	35.92	83.37	80.24	54.00	-26.24	Average

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]