

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Dong guan Synst Electronics.CO.,Ltd

Bluetooth clock radio

Model Number: HX-B710

FCC ID: SV9-HX-B710

Prepared for : Dong guan Synst Electronics.Co.,Ltd
The Science&Technology Industrial Park
Houjie Town, Dongguan,Guangdong.china

Prepared By :EST Technology Co., Ltd.
Santun(guantai Road), Houjie Town, DongGuan City,GuangDong, China.
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Report Number: ESTE-R1304018
Date of Test : Mar 21, 2013 ~ Apr 15, 2013
Date of Report : Apr 17, 2013

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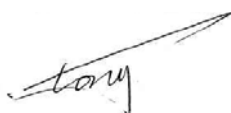
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Test Report Verification

Applicant:	Dong guan Synst Electronics.Co.,Ltd		
Address:	The Science&Technology Industrial Park Houjie Town, Dongguan,Guangdong.china		
Manufacturer:	Dong guan Synst Electronics.Co.,Ltd		
Address:	The Science&Technology Industrial Park Houjie Town, Dongguan,Guangdong.china		
E.U.T:	Bluetooth clock radio		
Model Number:	HX-B710		
Power Supply:	DC 7.5V From Adapter Input AC Mains		
Test Voltage:	DC 7.5V From Adapter Input AC 120V/60Hz		
Trade Name:	HMDX	Serial No.:	-----
Date of Receipt:	Mar 21,2013	Date of Test:	Mar 21 ~ Apr 15,2013
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2012 ANSI C63.4:2003		
Test Result:	The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the ETSI EN FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Apr 17,2013		
Prepared by:	Tested by:	Approved by:	
 	 	 	
Amy / Assistant	Tony.Tang/ Engineer	IcemanHu / Manager	
Other Aspects:	None.		
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	: Bluetooth clock radio
Model Number	: HX-B710
FCC ID	: SV9-HX-B710
Operation frequency	: 2402MHz~2480MHz
Number of channel	: 79
Antenna	: Internal antenna, +2dBm gain
Modulation	: FHSS (GFSK, $\pi/4$ -DQPSK, 8-DPSK)
Power Supply	: DC 7.5V From Adapter Input AC Mains
Applicant	: Dong guan Synst Electronics.Co.,Ltd The Science&Technology Industrial Park Houjie Town, Dongguan,Guangdong. china
Manufacturer	: Dong guan Synst Electronics.Co.,Ltd The Science&Technology Industrial Park Houjie Town, Dongguan,Guangdong. china
Sample Type	: Prototype production

2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) DA 00-705	PASS
20dB Bandwidth	FCC Part 15: 15.215 DA 00-705	PASS
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) DA 00-705	PASS
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.4: 2003 DA 00-705	PASS
Band Edge Compliance	FCC Part 15: 15.247(d) DA 00-705	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.4: 2003 DA 00-705	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

2.2. Test Facilities

EMC Lab	:	Certificated by CNAL, CHINA Registration No.: L5288 Date of registration: October 28, 2011 Certificated by FCC, USA Registration No.: 989591 Date of registration: December 07, 2010 Certificated by Industry Canada Registration No.: 46405-9405 Date of registration: December 16, 2010 Certificated by VCCI, Japan Registration No.: R-3663 & C-4103 Date of registration: July 25, 2011 Certificated by TUV Rheinland, Germany Registration No.: UA 50195514 0001 Date of registration: January 07, 2011 Certificated by TUV/PS, Shenzhen Registration No.: SCN1017 Date of registration: January 27, 2011 Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L1-18 Date of registration: April 28, 2011 Certificated by Siemic, Inc. Registration No.: SLCN021 Date of registration: November 8, 2011 Certificated by Nemko, Hong Kong Registration No.: 175193 Date of registration: May 4, 2011
Name of Firm	:	EST Technology Co., Ltd.
Site Location	:	San Tun Management Zone, Houjie Town, Dongguan, Guangdong, China

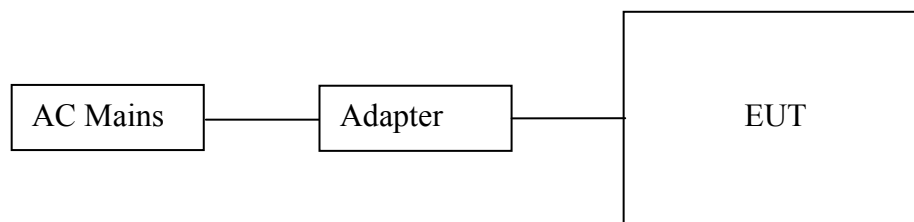
2.3. Assistant equipment used for test

2.3.1. Adapter

Adapter 1	:	
Manufacturer	:	GENESIS SCIENCE TECHNOLOGY LTD
M/N	:	GT-WAAU07500250-302
Input	:	AC 100-240V~50/60Hz 0.8A Max
Output	:	DC 7.5V/2.5A
Adapter 2	:	
Manufacturer	:	Dongguan GaoYi Electronlc Co.,Ltd
M/N	:	RSS 1006-188075-W2-B
Input	:	AC 100-240V~50/60Hz 0.8A Max
Output	:	DC 7.5V/2.5A

2.4. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was be set into BT test mode by software before test.



(EUT: Bluetooth clock radio)

2.5. Test mode

The test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode

Mode	Channel	Frequency
GFSK	Low	2402MHz
	Middle	2441MHz
	High	2480MHz
8-DPSK	Low	2402MHz
	Middle	2441MHz
	High	2480MHz

2.6. Test Equipment

2.6.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	Mar,7,13	1 Year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	Mar,7,13	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	Aug.24,12	1 Year

2.6.2. For radiated emission test(30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	Mar,7,13	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	Mar,7,13	1 Year
Bilog Antenna	Teseq	CBL 6111D	25872	Mar,7,13	1 .5Year
Signal Amplifier	Agilent	310N	187037	Aug,24,12	1 Year

2.6.3. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Temperature controller	Terchy	MHQ	120	May.08,12	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	May.08,12	1 Year
Vector Signal Generator	R&S	SMBV100A	1407.6004K02	May.08,12	1 Year
Double Ridged Horn Antenna	R&S	HF907	100276	Jan.16.13	2 Year
Double Ridged Horn Antenna	R&S	HF907	100268	Jan.16.13	2 Year
Log-periodic Dipole Antenna	R&S	HL223	100435	Jan.16.13	2 Year
Biconical Antenna	R&S	HK116	100431	Jan.16.13	2 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	9163-462	Jan.16.13	2 Year
Pre-amplifier	AH	PAM-0118	10008	May.08,12	1 Year
Pre-amplifier	R&S	SCU-01	10049	May.08,12	1 Year
High Pass filter	Micro	HPM50111	324455	May.08,12	1 Year
RF Cable	Hubersuhner	W10.02	534096	May.08,12	1 Year
RF Cable	Hubersuhner	W10.02	534123	May.08,12	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	May.08,12	1 Year
RF Cable	Hubersuhner	RG 214/U	523455	May.08,12	1 Year

3. MAXIMUM PEAK OUTPUT POWER

3.1. 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, the e.i.r.p shall not exceed 4W

3.2. Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

3.3. Test Result

Adapter 1

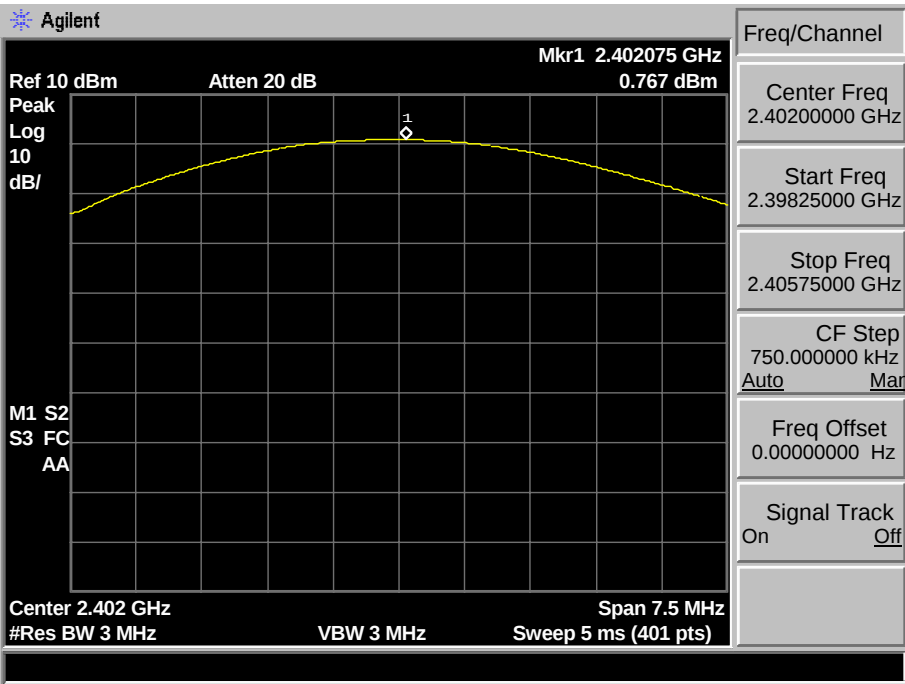
EUT: Bluetooth clock radio M/N:HX-B710					
Test date: 2013-04-02		Test site: RF site		Tested by: Tony Tang	
Mode	Freq (MHz)	Result (dBm)	Limit		Margin (dB)
			dBm	W	
GFSK	2402	0.767	30.00	1	30.767
	2441	0.799	30.00	1	30.799
	2480	0.544	30.00	1	30.544
8-DPSK	2402	0.869	21.00	0.125	21.869
	2441	0.425	21.00	0.125	21.425
	2480	0.299	21.00	0.125	21.299
Conclusion: PASS					

Adapter 2

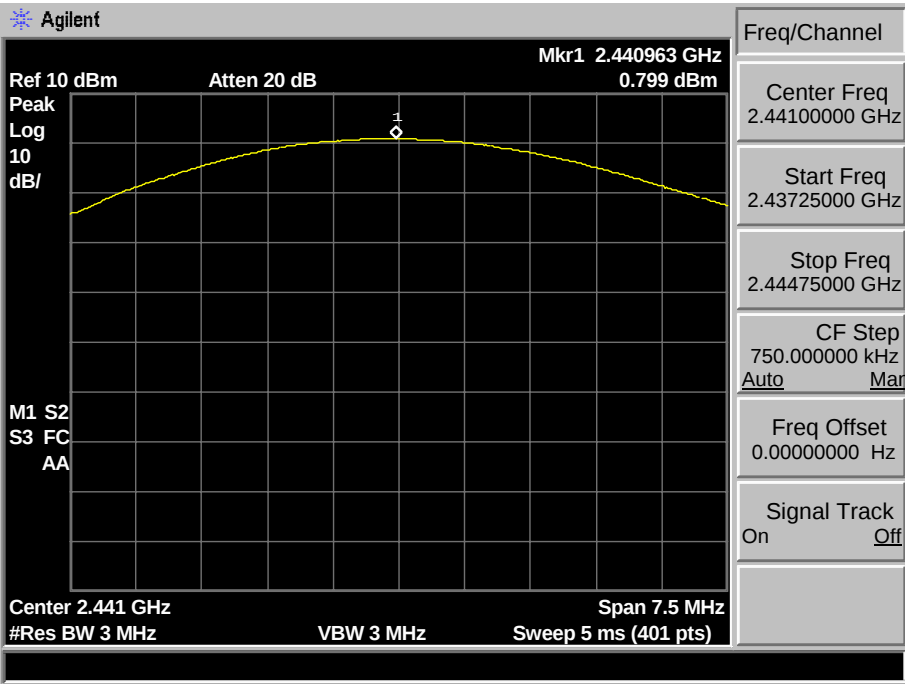
EUT: Bluetooth clock radio M/N:HX-B710					
Test date: 2013-04-02		Test site: RF site		Tested by: Tony Tang	
Mode	Freq (MHz)	Result (dBm)	Limit		Margin (dB)
			dBm	W	
GFSK	2402	1.479	30.00	1	31.479
	2441	1.273	30.00	1	31.273
	2480	1.074	30.00	1	31.074
8-DPSK	2402	1.050	21.00	0.125	21.050
	2441	0.604	21.00	0.125	21.604
	2480	0.629	21.00	0.125	21.629
Conclusion: PASS					

3.4. Test Data

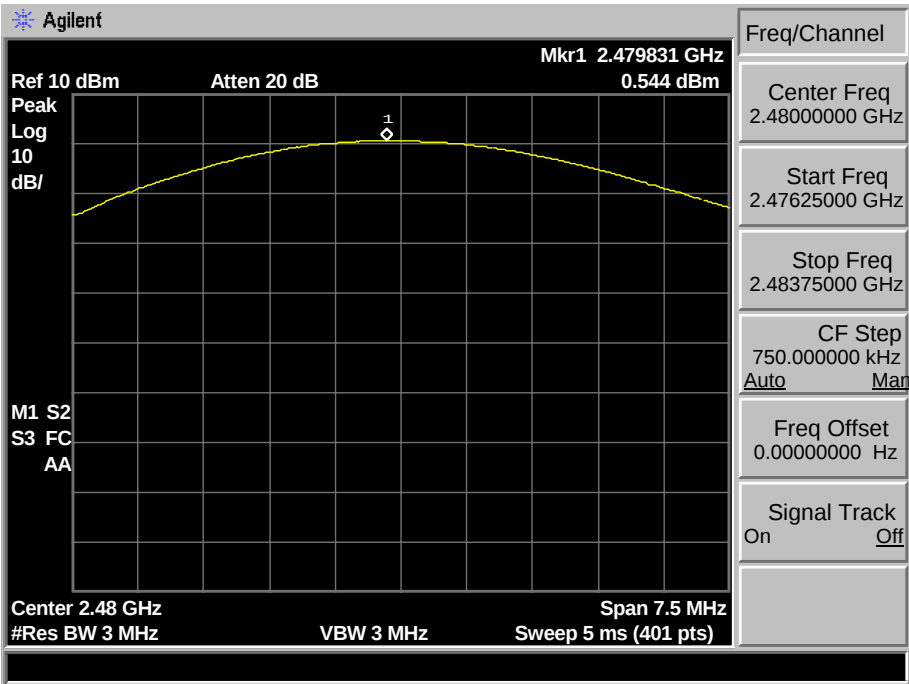
Adaptre 1
GFSK 2402 MHz



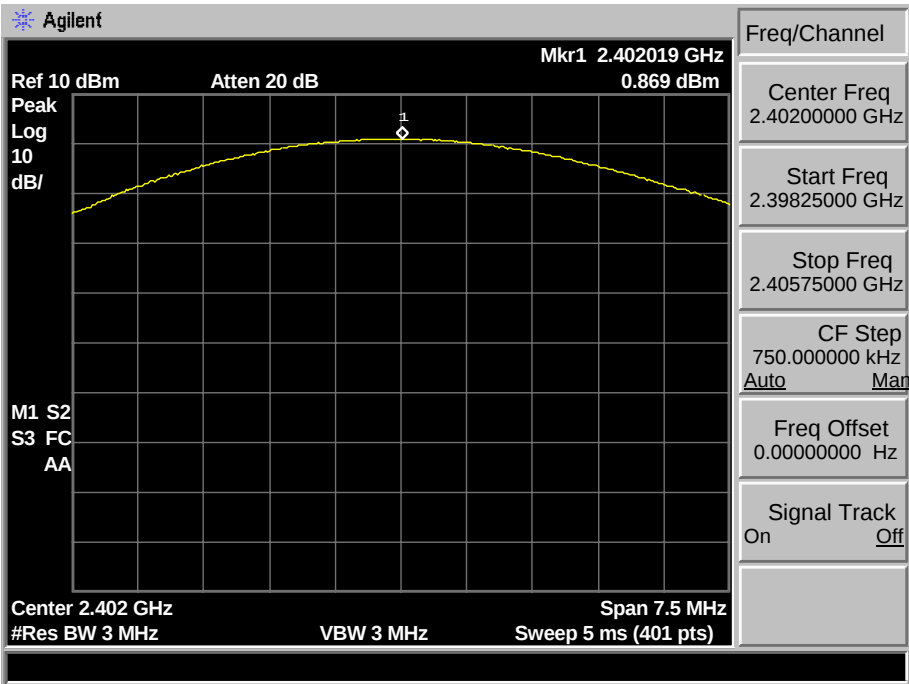
GFSK 2441 MHz



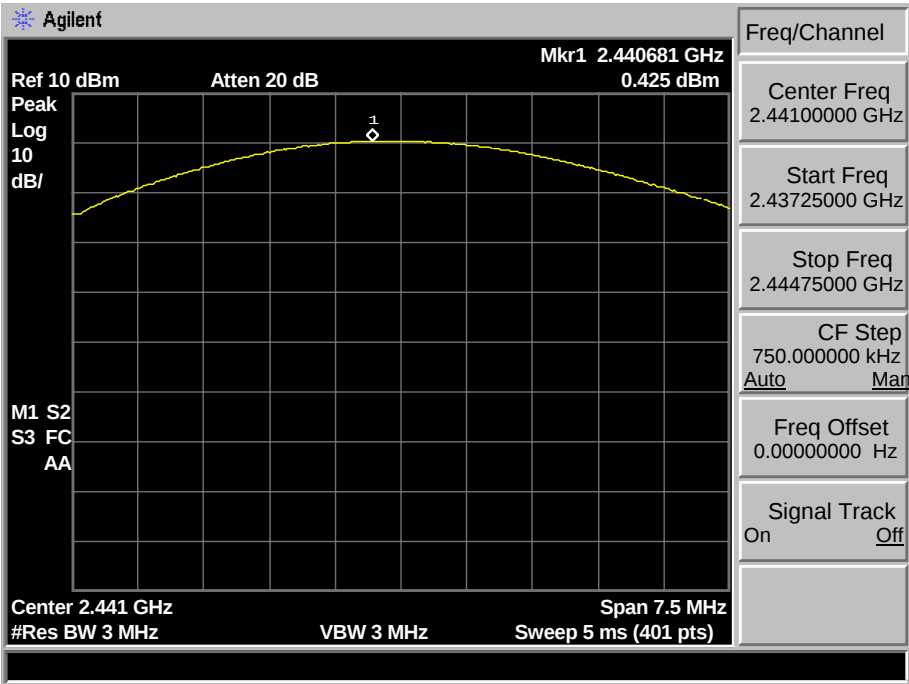
GFSK 2480 MHz



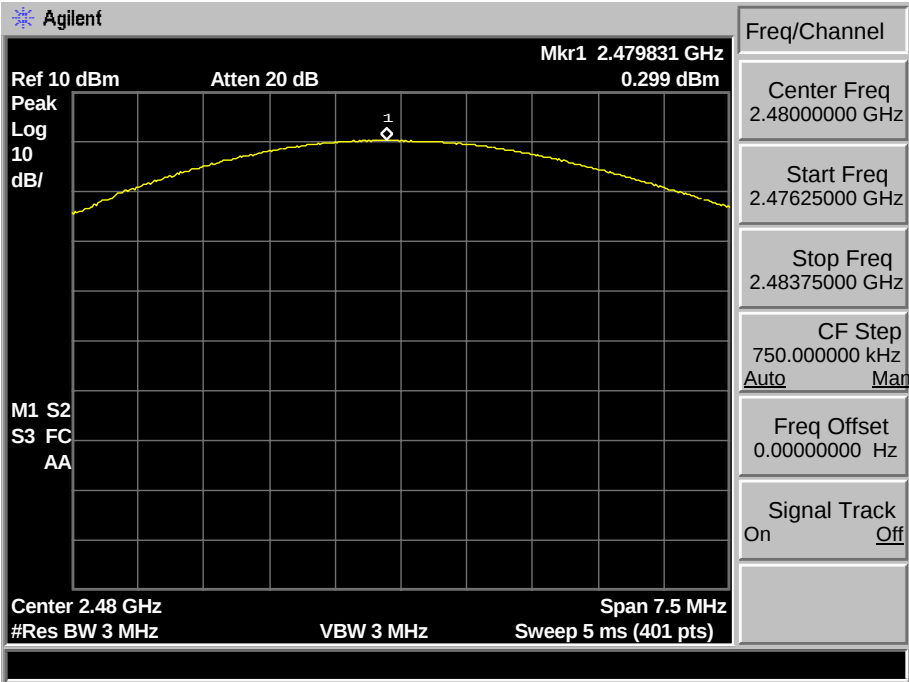
8-DPSK 2402MHz



8-DPSK 2441MHz

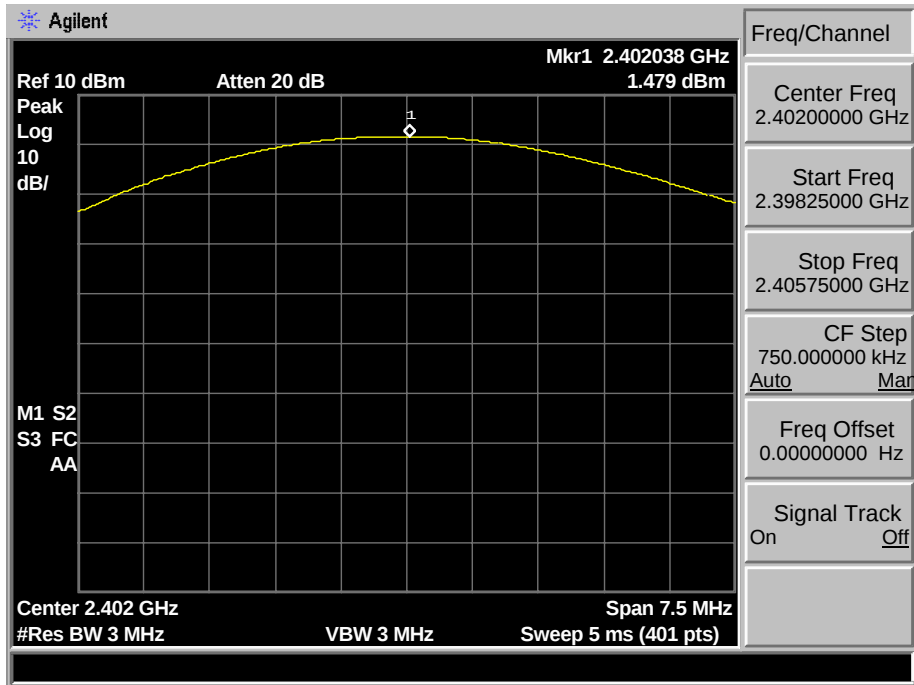


8-DPSK 2480MHz

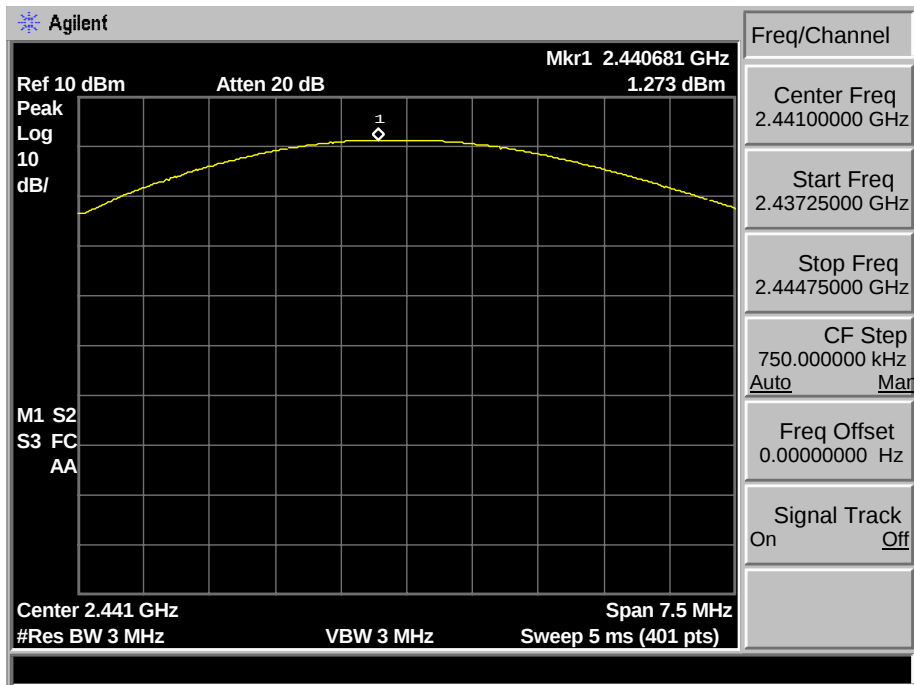


Adaptre 2

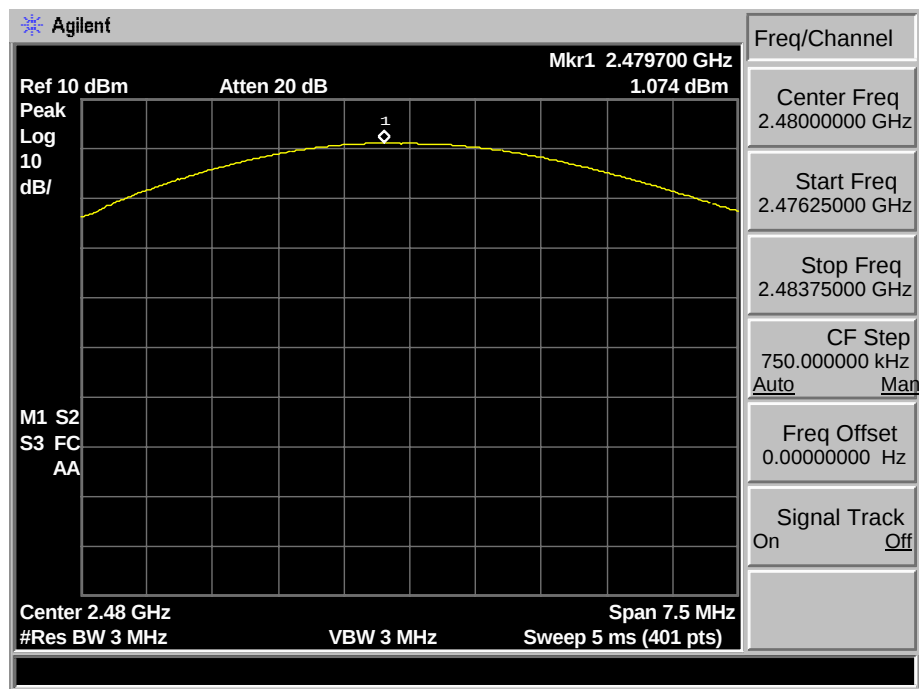
GFSK 2402 MHz



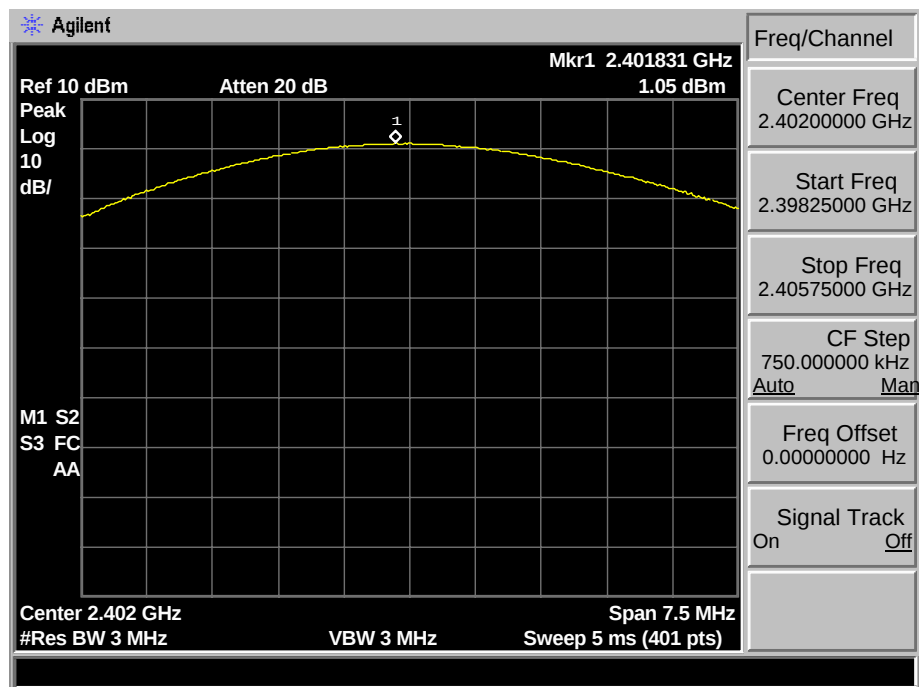
GFSK 2441 MHz



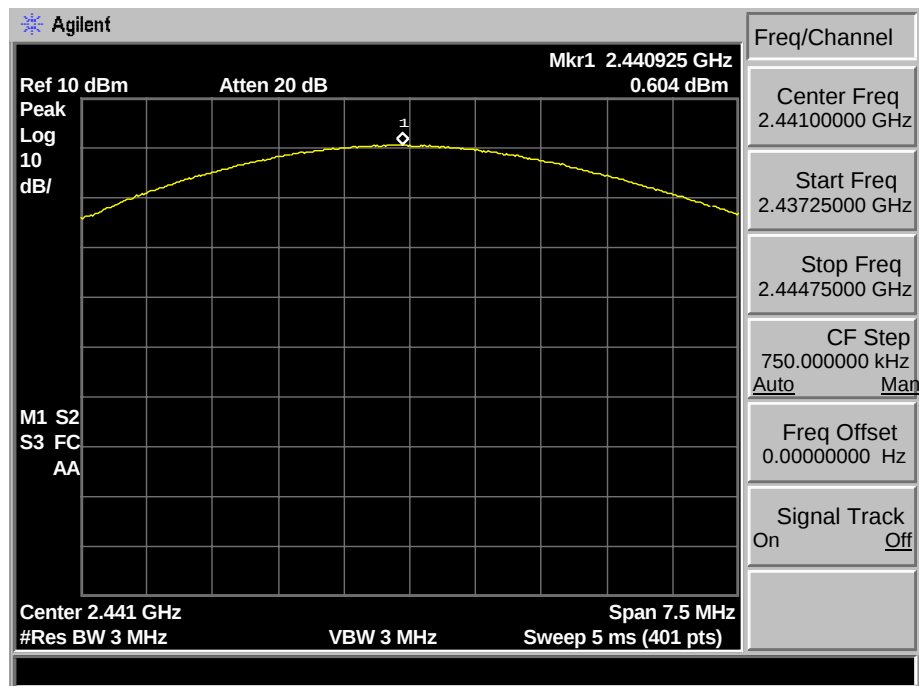
GFSK 2480 MHz



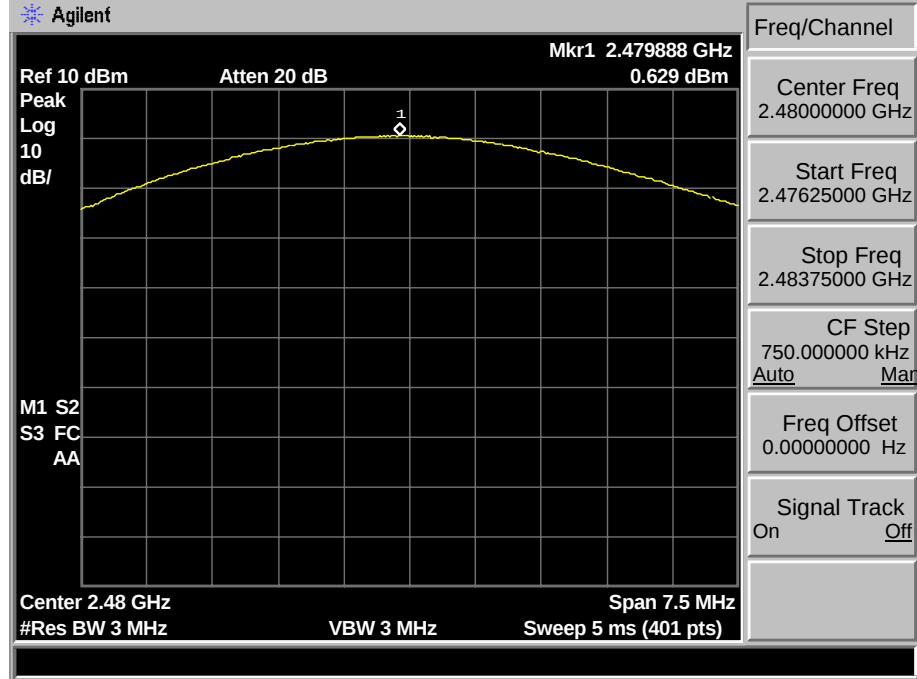
8-DPSK 2402MHz



8-DPSK 2441MHz



8-DPSK 2480MHz



4. 20 DB BANDWIDTH

4.1. 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.

4.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 300kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3. Test Result

Adapter 1

EUT: Bluetooth clock radio M/N:HX-B710				
Test date: 2013-04-02		Test site: RF site		Tested by: Tony Tang
Mode	Freq (MHz)	20dB Bandwidth (MHz)	Limit (kHz)	Conclusion
GFSK	2402	0.854	/	PASS
	2441	0.842	/	PASS
	2480	0.859	/	PASS
8-DPSK	2402	1.211	/	PASS
	2441	1.222	/	PASS
	2480	1.221	/	PASS

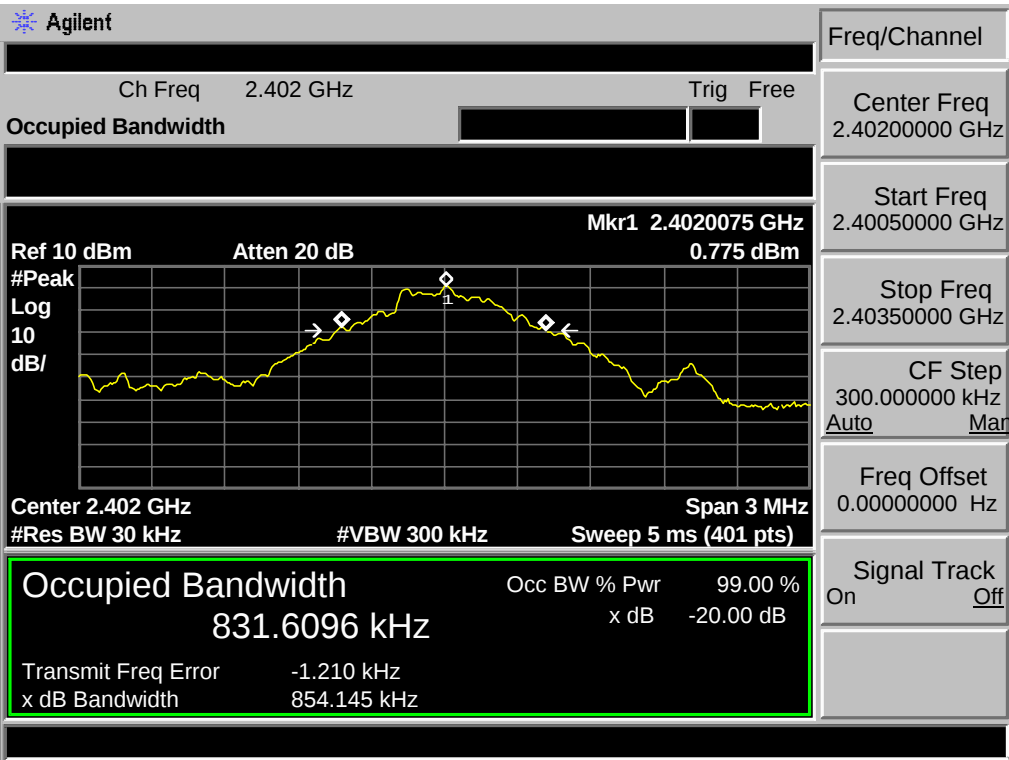
Adapter 2

EUT: Bluetooth clock radio M/N:HX-B710				
Test date: 2013-03-17		Test site: RF site		Tested by: Tony Tang
Mode	Freq (MHz)	20dB Bandwidth (MHz)	Limit (kHz)	Conclusion
GFSK	2402	0.859	/	PASS
	2441	0.859	/	PASS
	2480	0.855	/	PASS
8-DPSK	2402	1.211	/	PASS
	2441	1.216	/	PASS
	2480	1.215	/	PASS

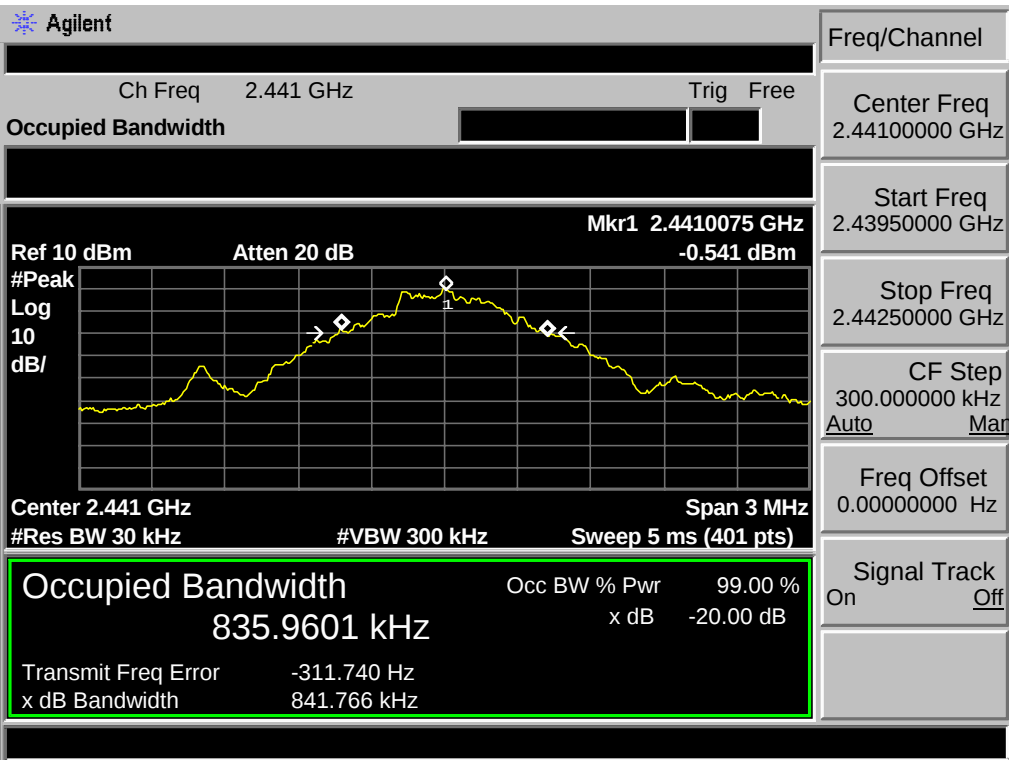
4.4. Test Data

Adapter 1

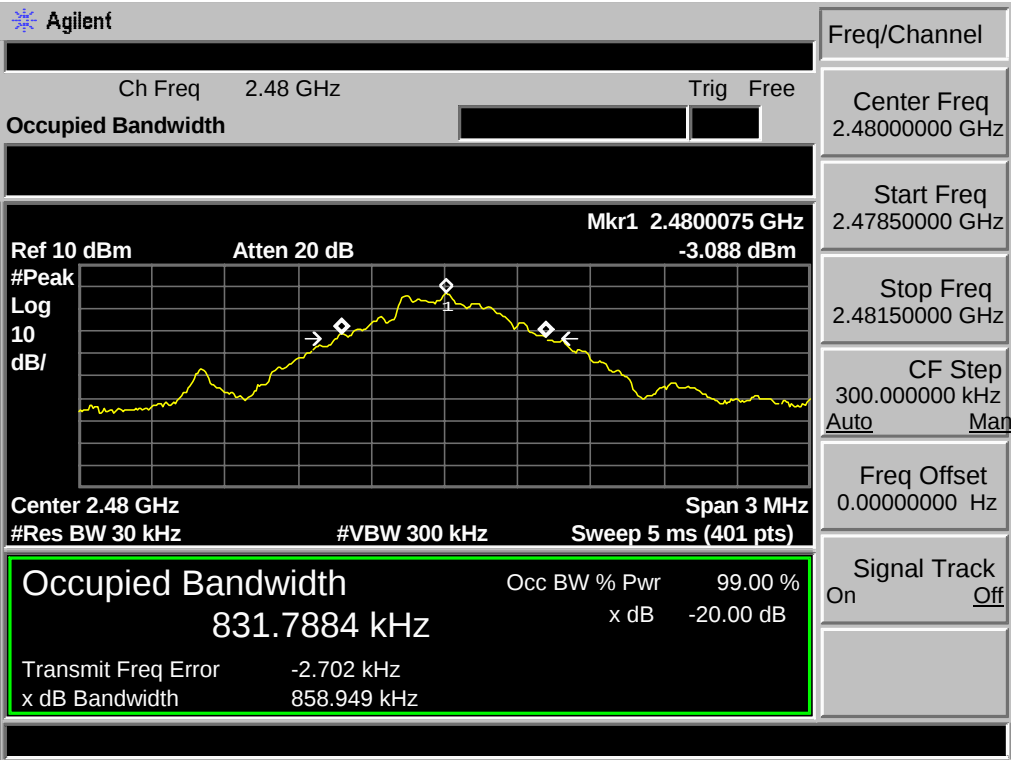
GFSK 2402MHz



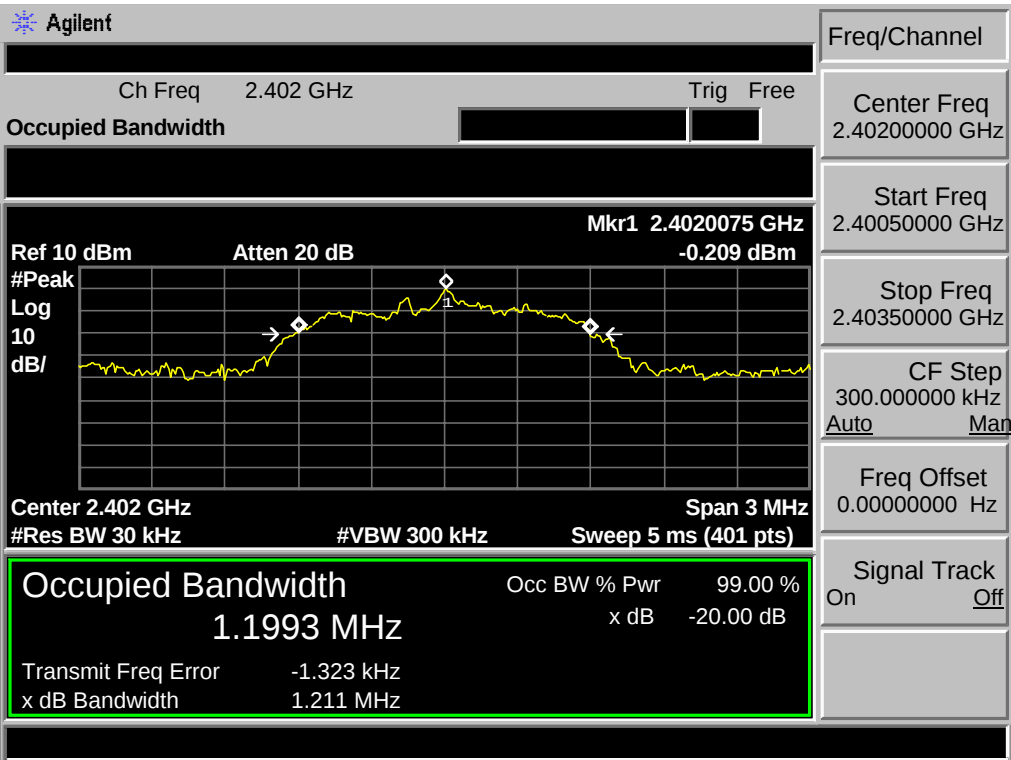
GFSK 2441MHz



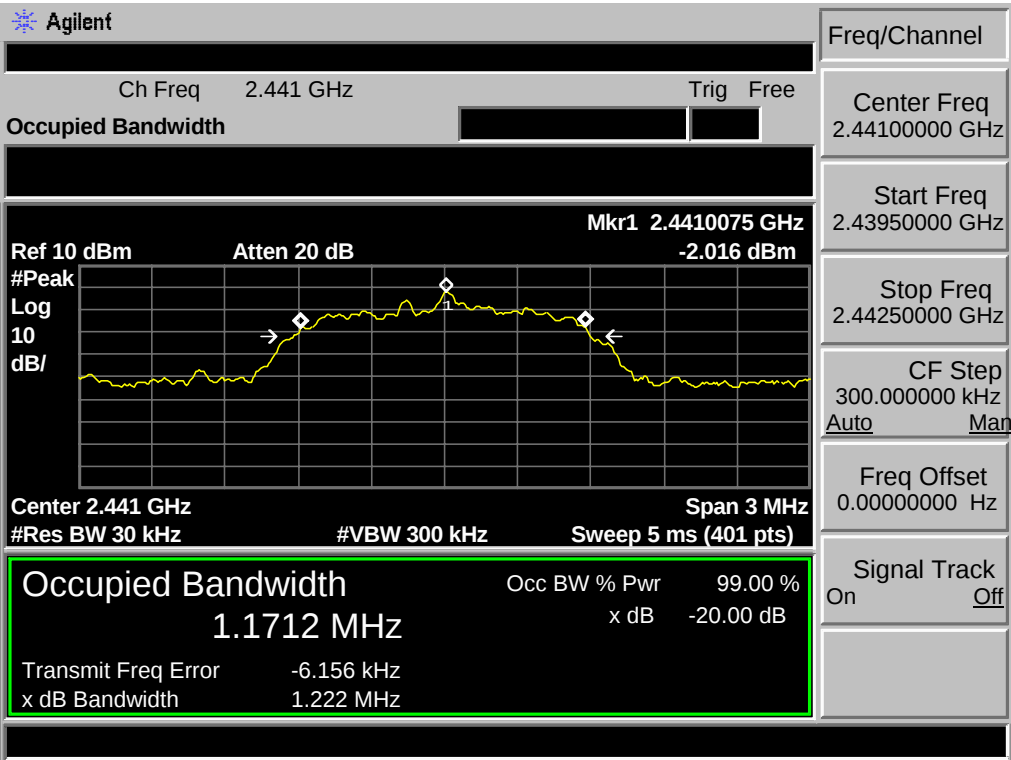
GFSK 2480MHz



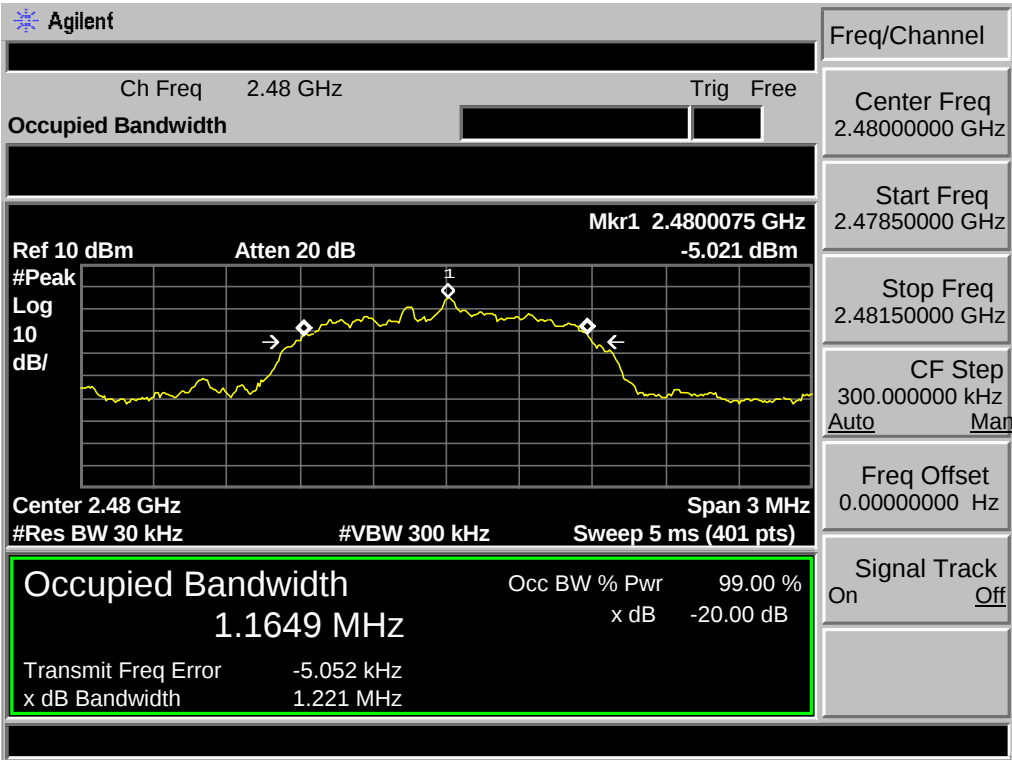
8-DPSK 2402MHz



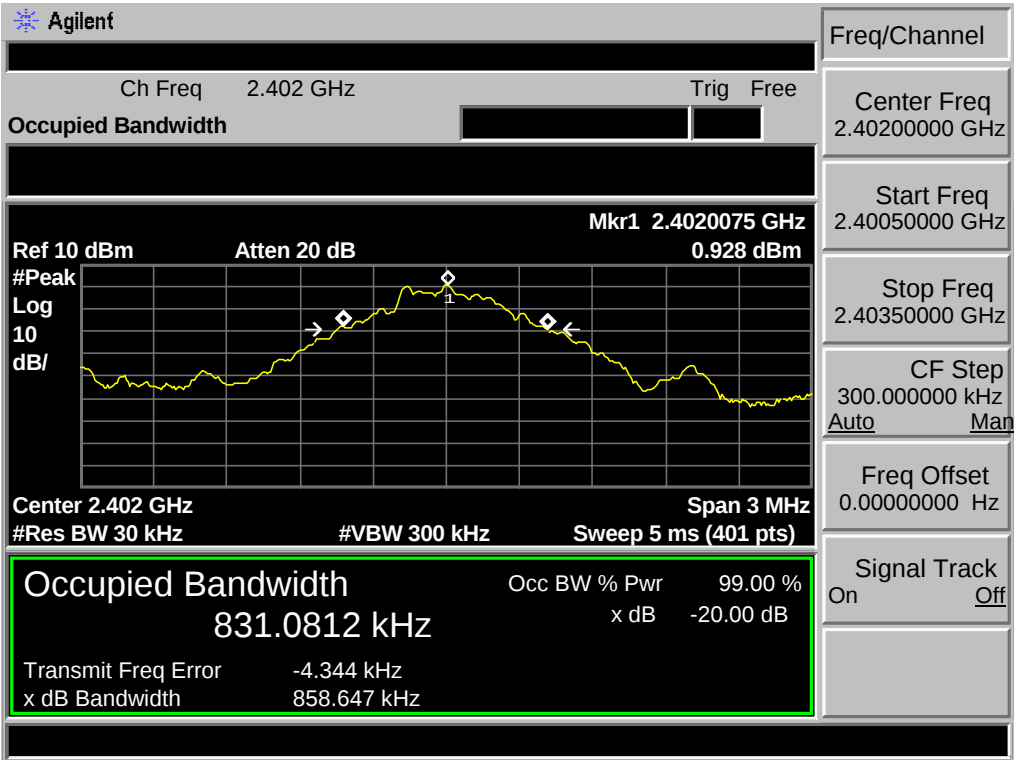
8-DPSK 2441MHz



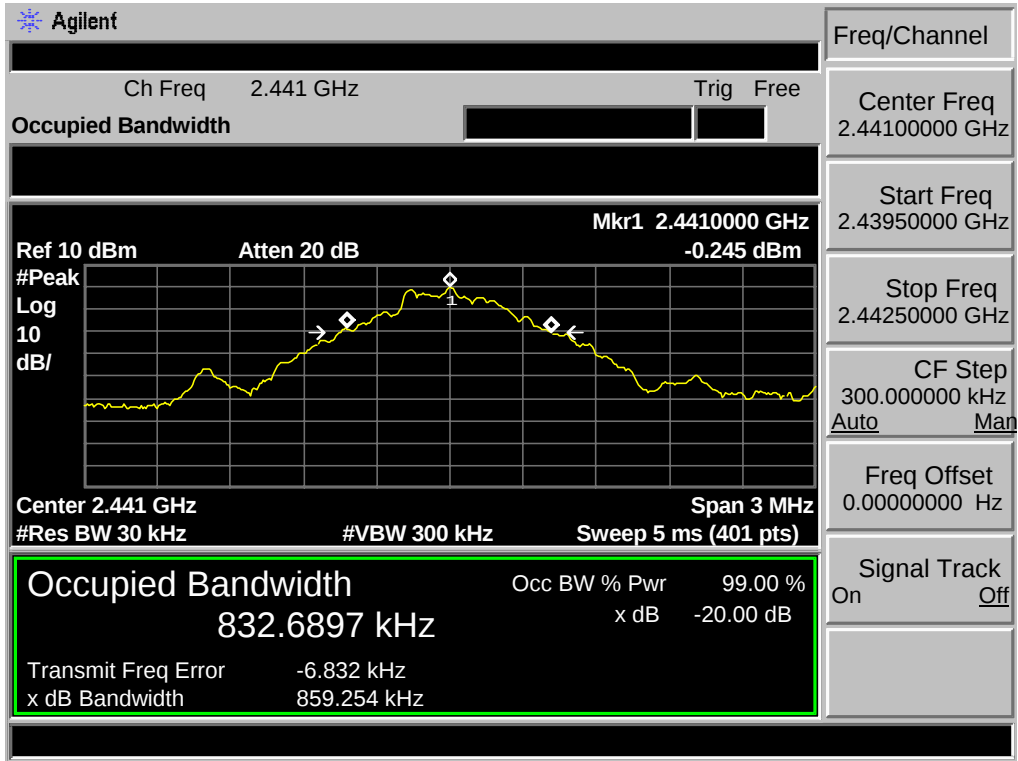
8-DPSK 2480MHz



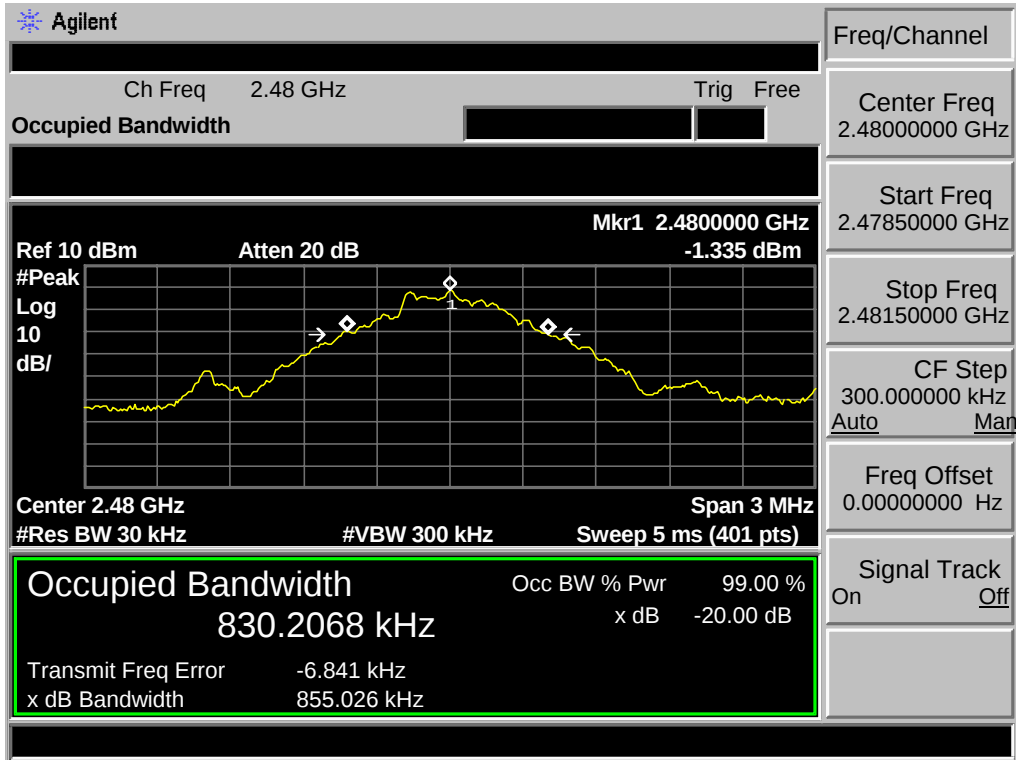
Adapter 2
GFSK 2402MHz



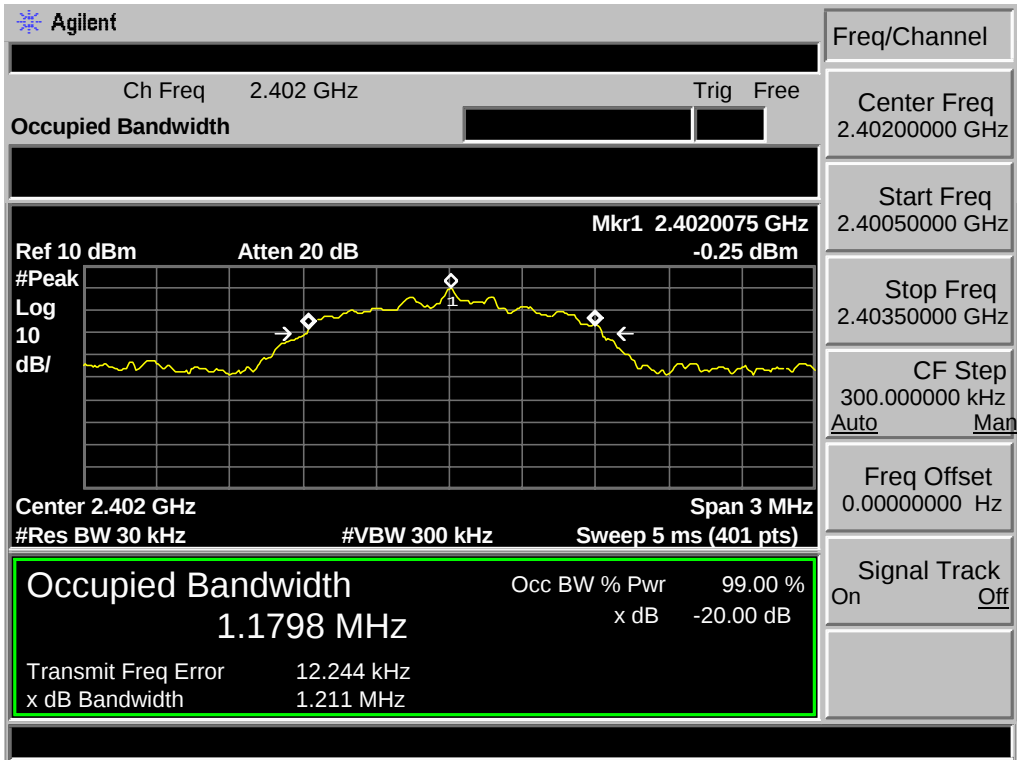
GFSK 2441MHz



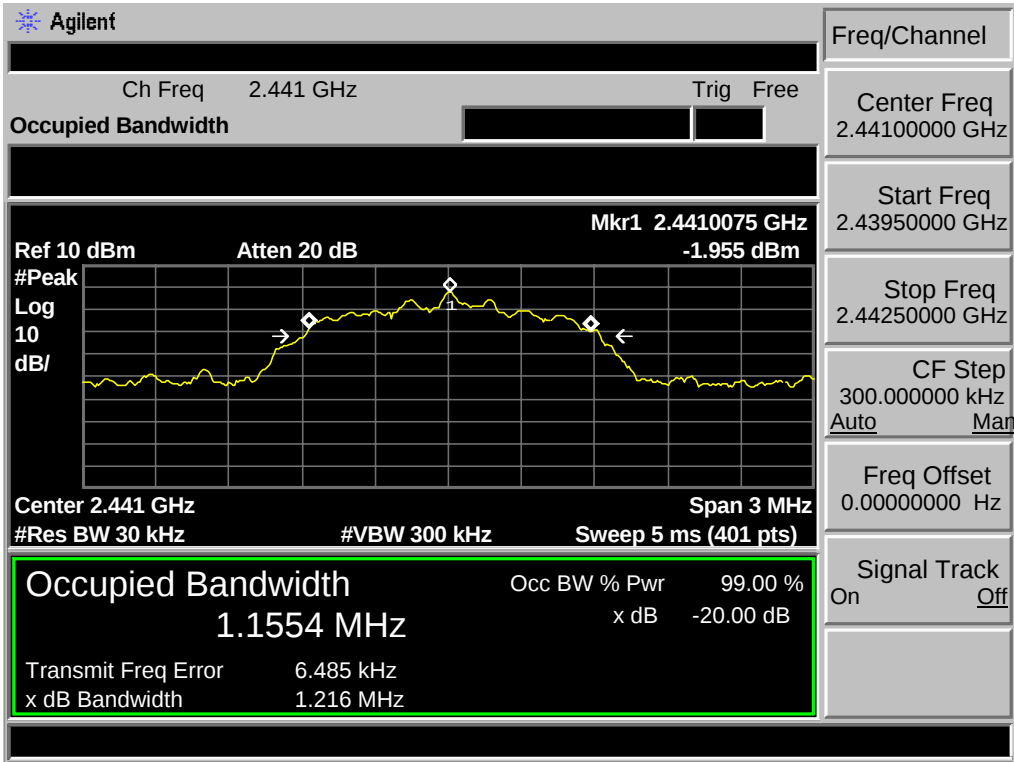
GFSK 2480MHz



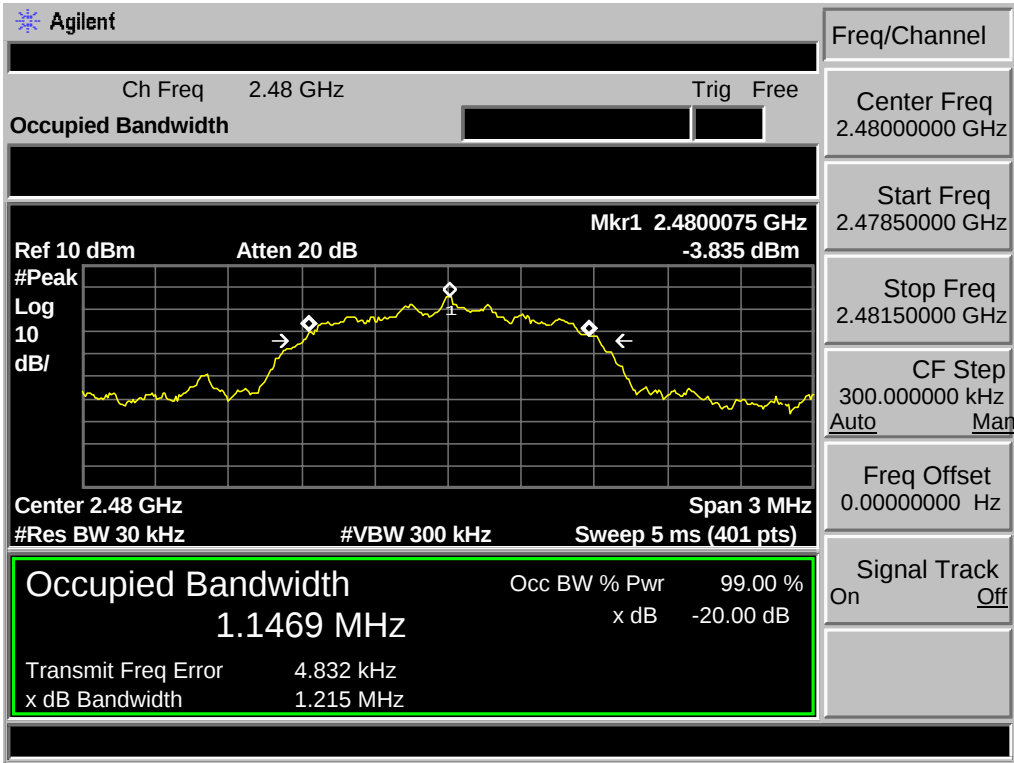
8-DPSK 2402MHz



8-DPSK 2441MHz



8-DPSK 2480MHz



5. CARRIER FREQUENCY SEPARATION

5.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW

5.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The carrier frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW.

5.3. Test Result

Adapter 1

EUT: Bluetooth clock radio M/N:HX-B710				
Test date: 2013-04-02			Test site: RF site	Tested by: Tony Tang
Mode	Channel	Channel separation (MHz)	Limit	Conclusion
GFSK	Low CH	1.000	0.854MHz	PASS
	Mid CH	1.006	0.842MHz	PASS
	High CH	1.006	0.859MHz	PASS
8-DPSK	Low CH	1.000	> 2/3 of the 20dB Bandwidth or 25[kHz](whichever is greater)	PASS
	Mid CH	1.000		PASS
	High CH	1.006		PASS

Adapter 2

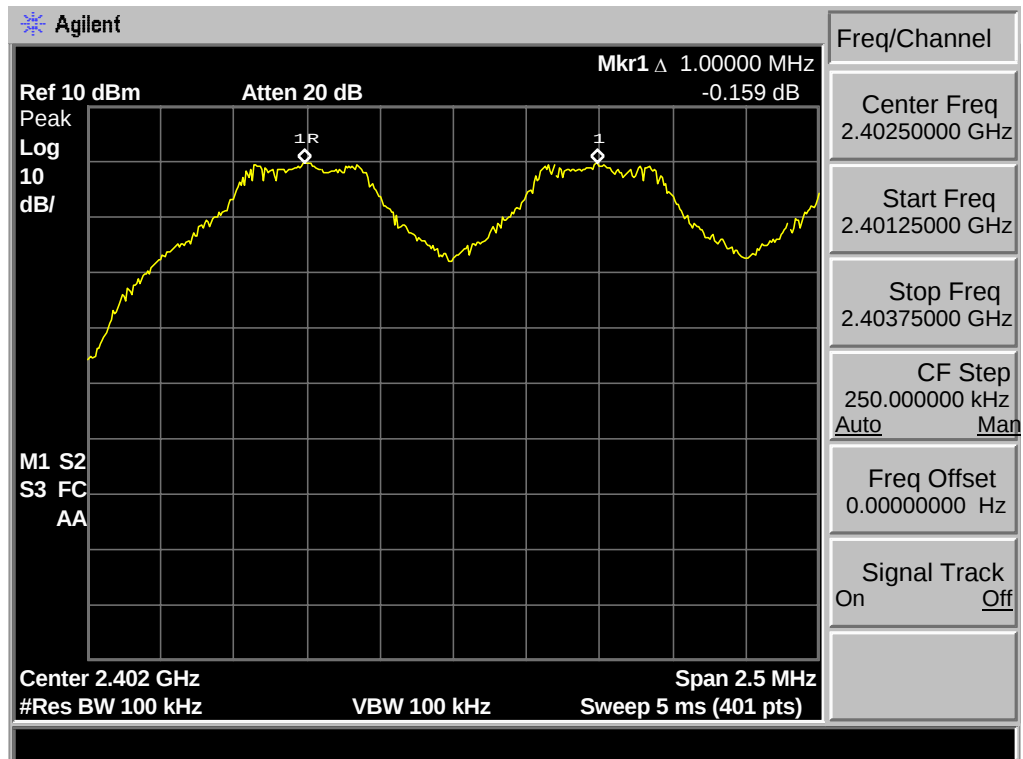
EUT: Bluetooth clock radio M/N:HX-B710				
Test date: 2013-03-17			Test site: RF site	Tested by: Tony Tang
Mode	Channel	Channel separation (MHz)	Limit	Conclusion
GFSK	Low CH	1.006	0.859MHz	PASS
	Mid CH	1.013	0.859 MHz	PASS
	High CH	1.000	0.855 MHz	PASS
8-DPSK	Low CH	1.000	> 2/3 of the 20dB Bandwidth or 25[kHz](whichever is greater)	PASS
	Mid CH	1.000		PASS
	High CH	1.000		PASS

5.4. Test Data

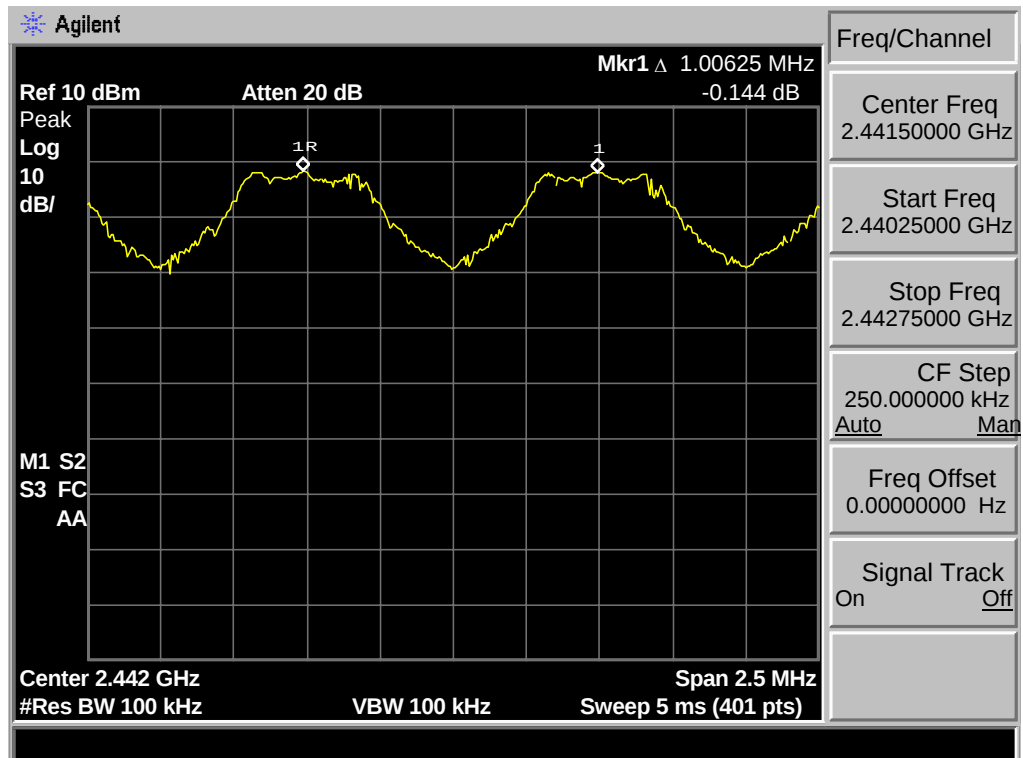
Adapter 1

GFSK

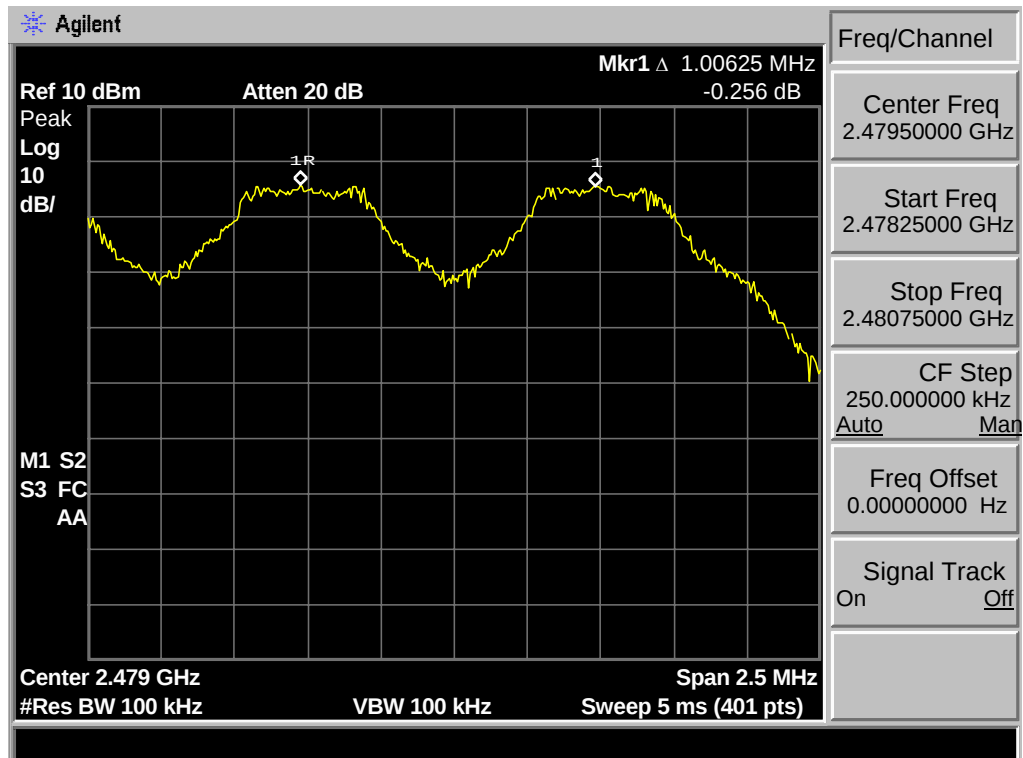
Low Channel



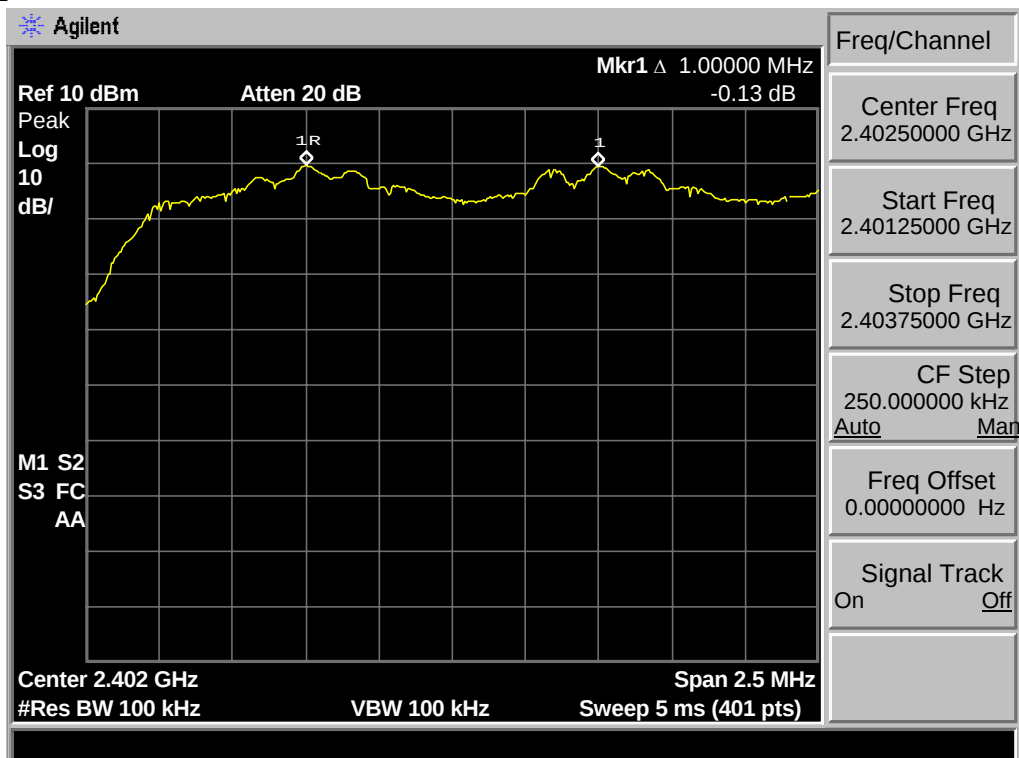
Mid Channel



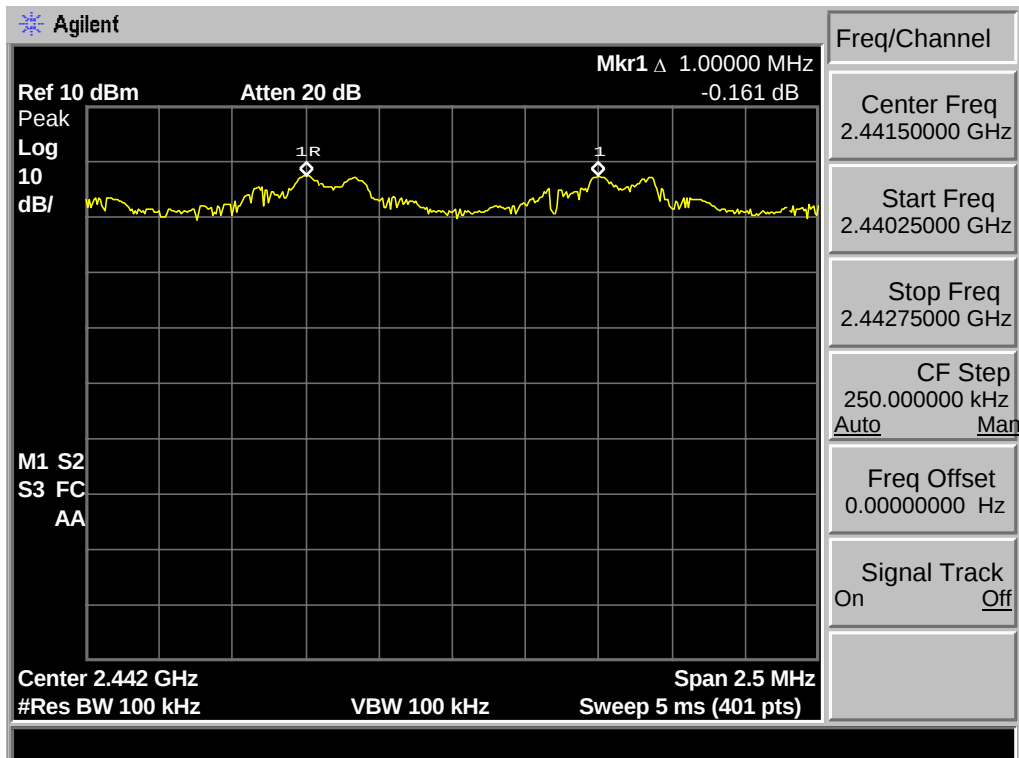
High Channel



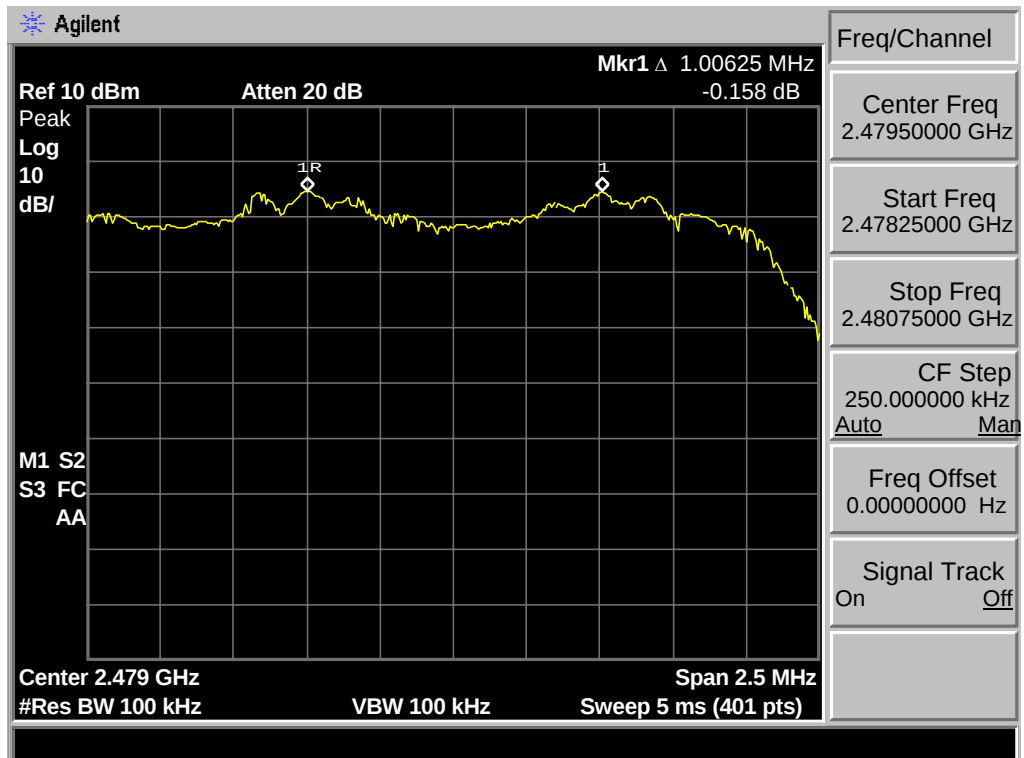
8-DPSK Low Channel



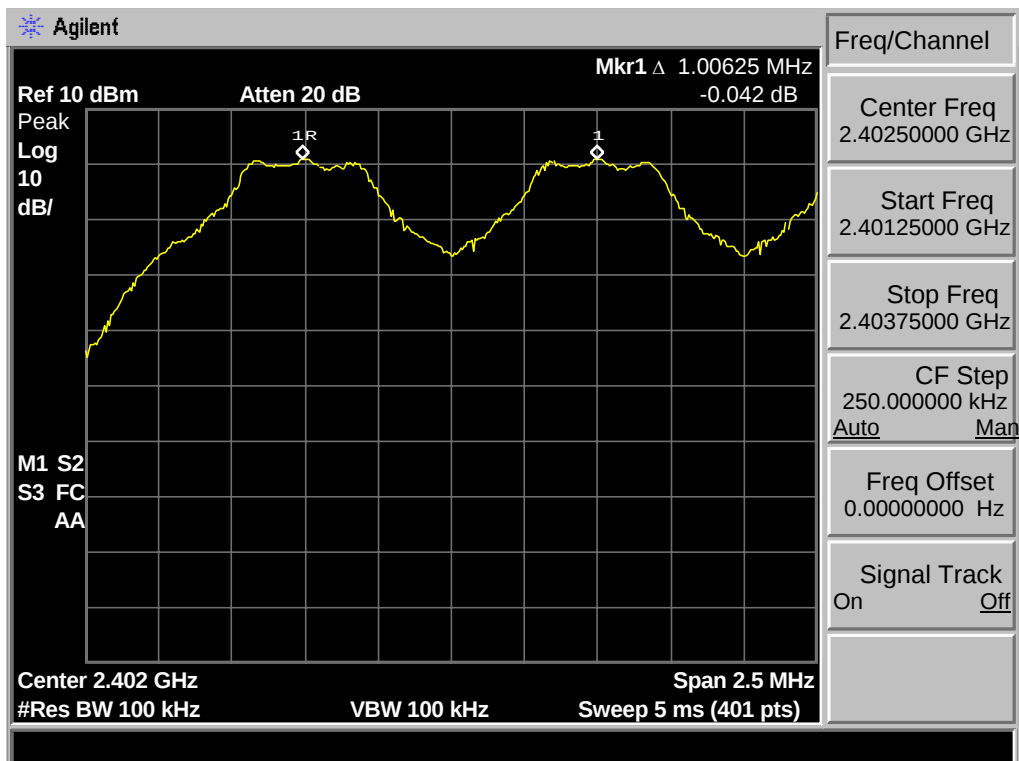
Mid Channel



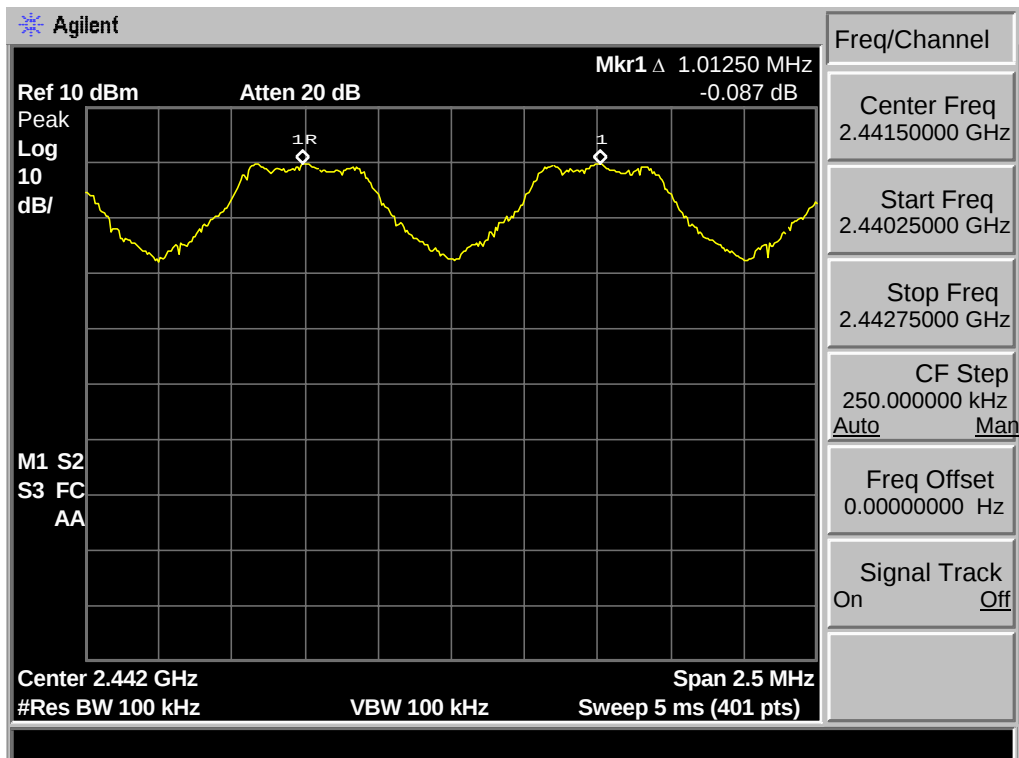
High Channel



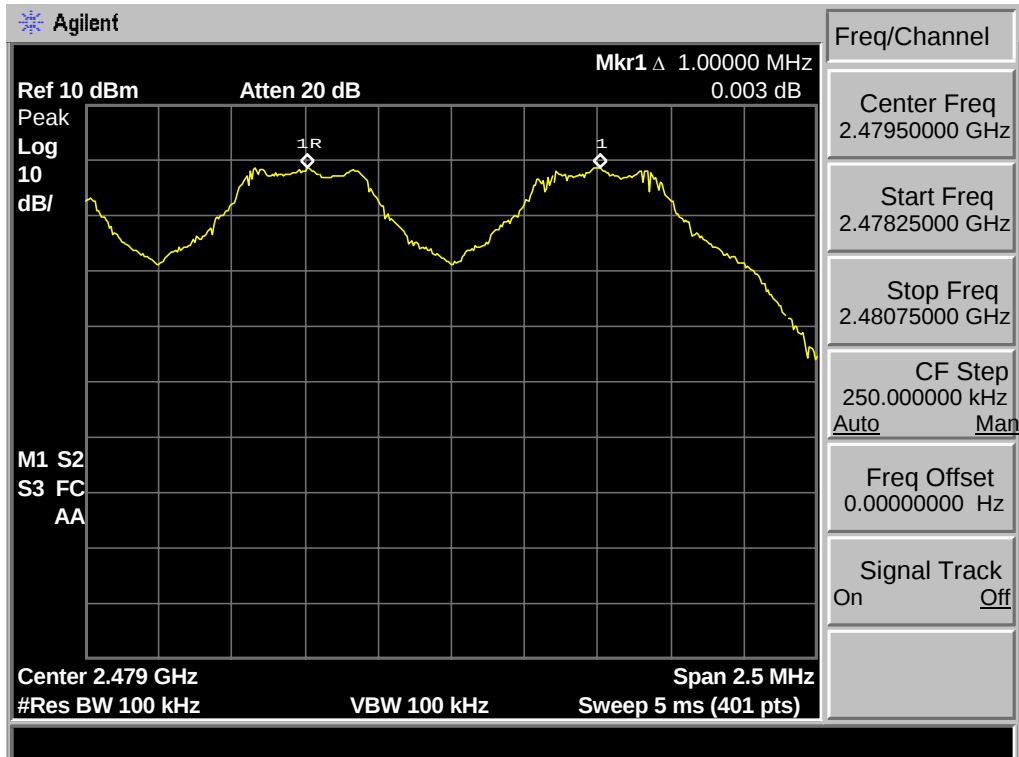
Adapter 2 GFSK Low Channel



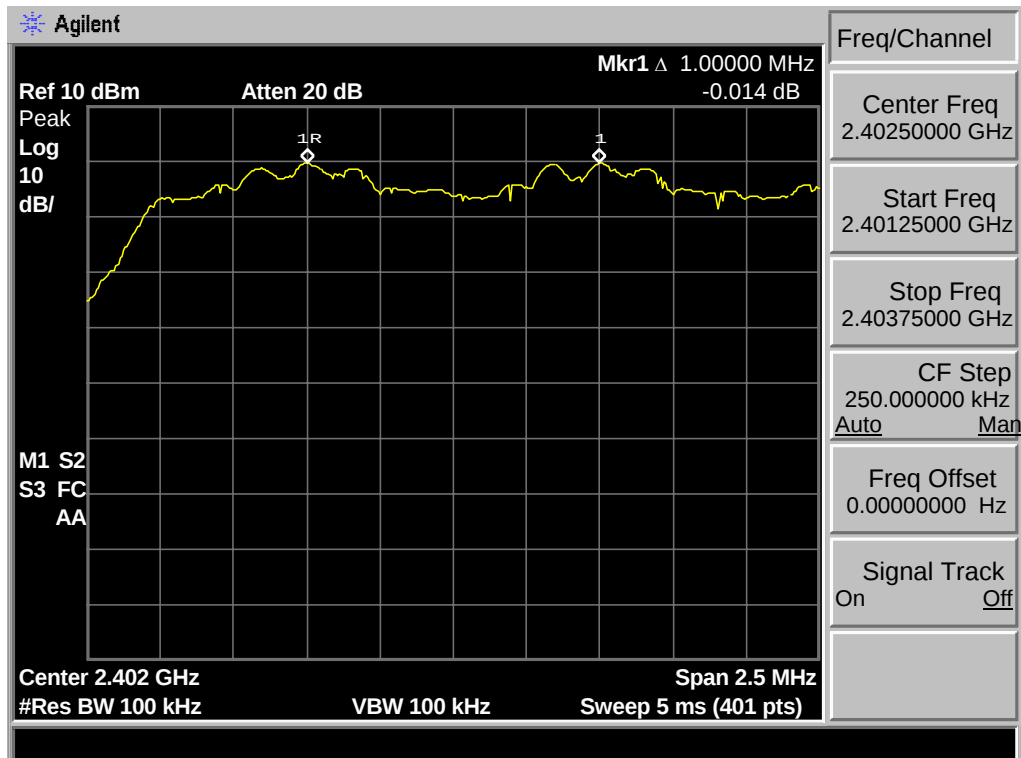
Mid Channel



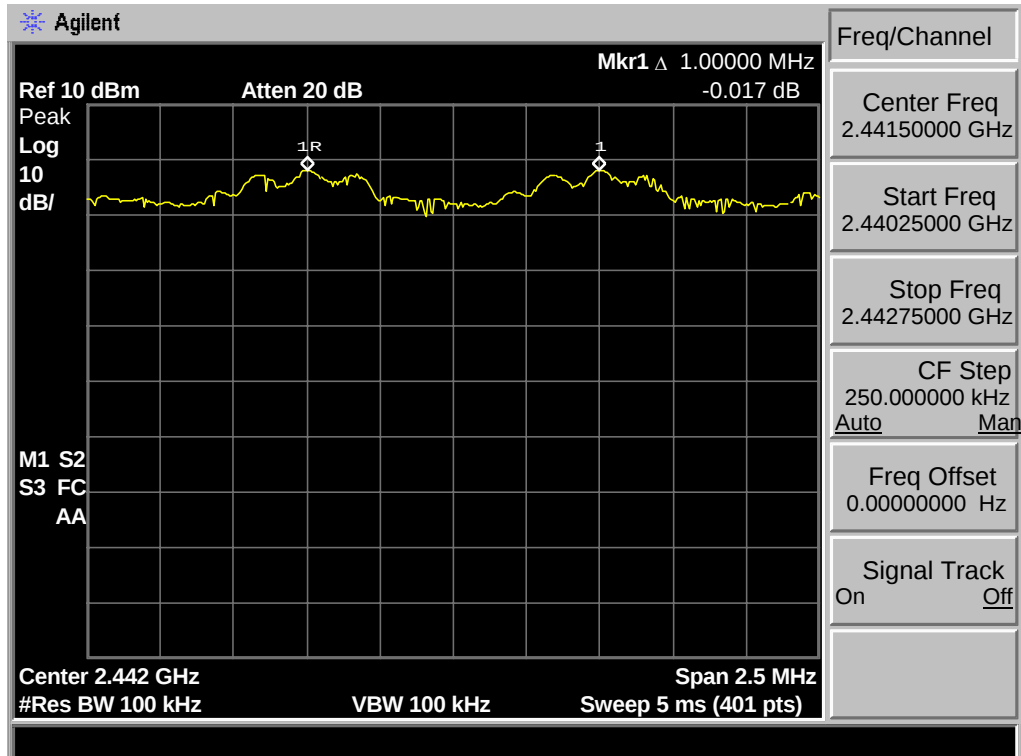
High Channel



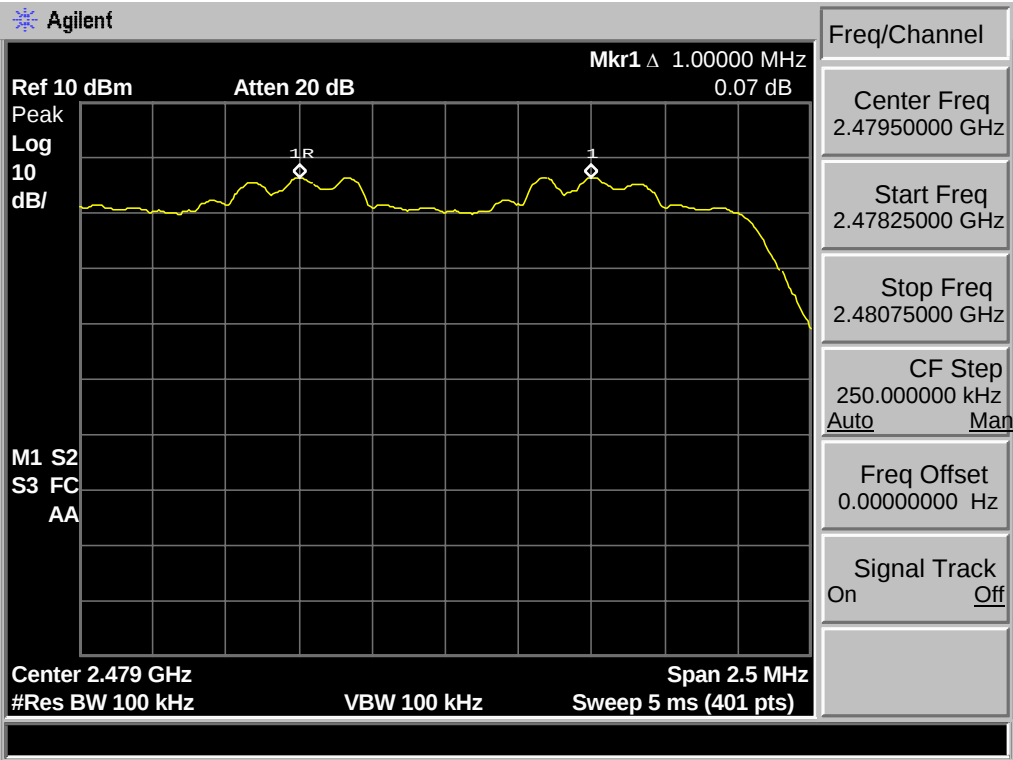
8-DPSK Low Channel



Mid Channel



High Channel



6. NUMBER OF HOPPING CHANNEL

6.1. Limit

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

6.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The number of hopping channel was measured by spectrum analyzer with 300kHz RBW and 300kHz VBW.

6.3. Test Result

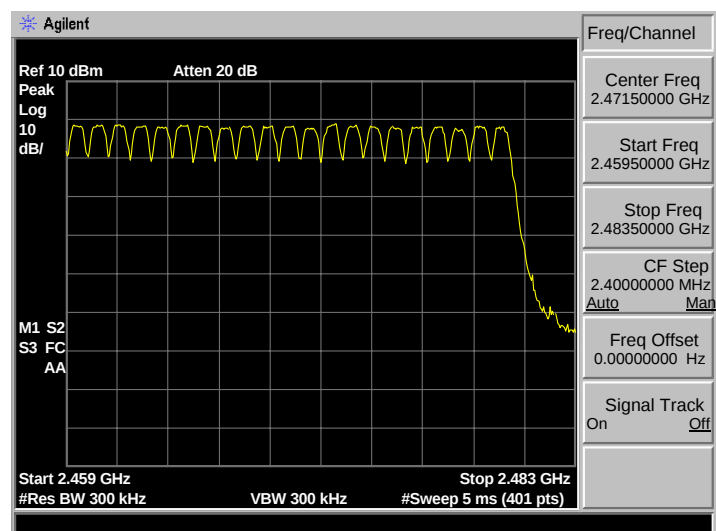
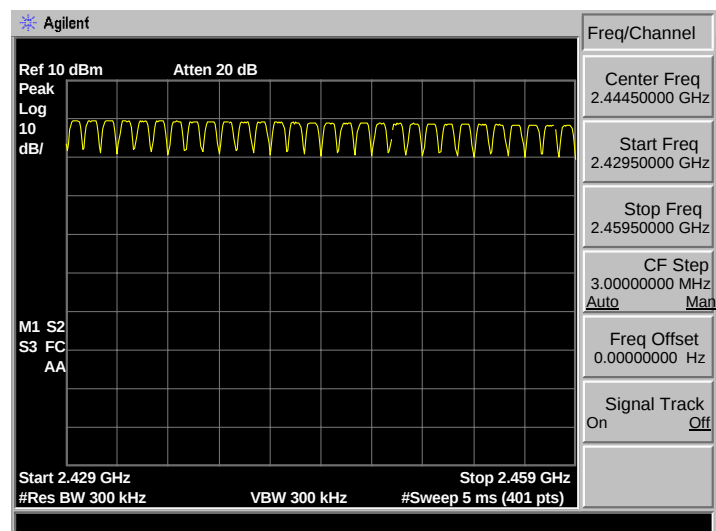
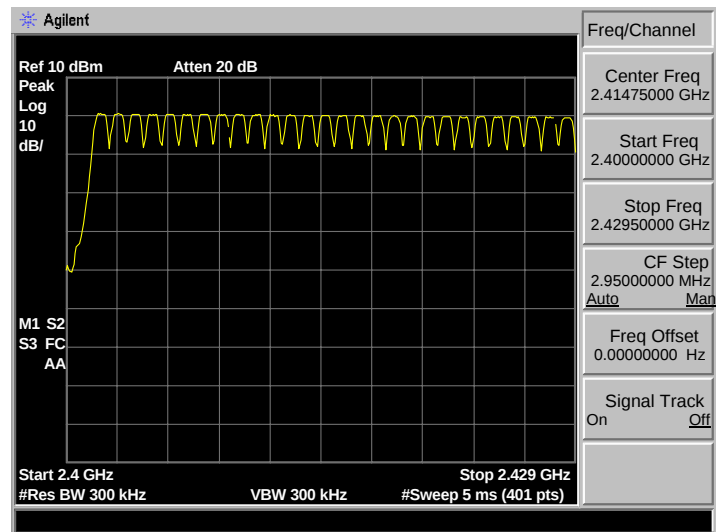
Adapter 1

EUT: Bluetooth clock radio		M/N:HX-B710	
Test date: 2013-04-02		Test site: RF site	Tested by: Tony.Tang
Mode	Number of hopping channel		Conclusion
GFSK	79	>15	PASS
8-DPSK	79	>15	PASS

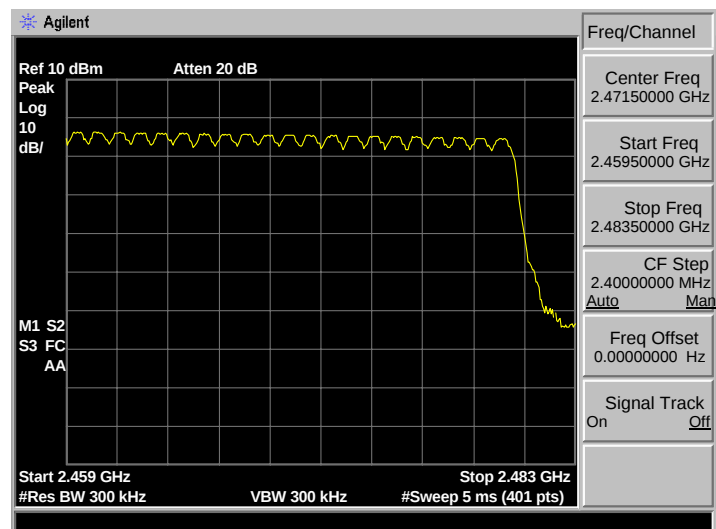
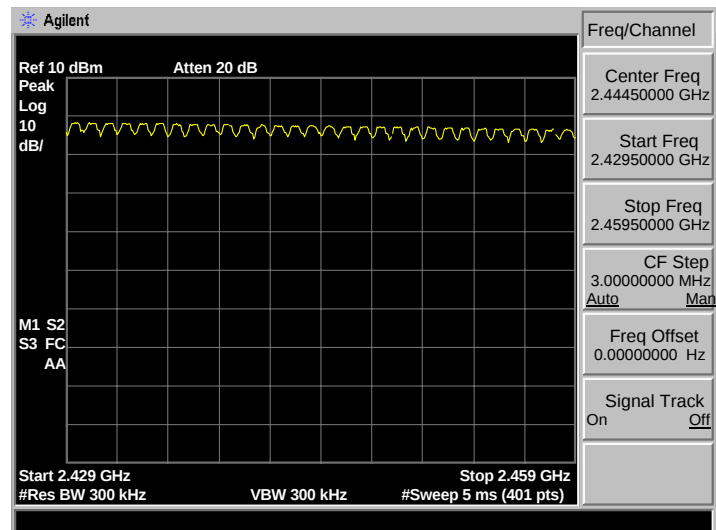
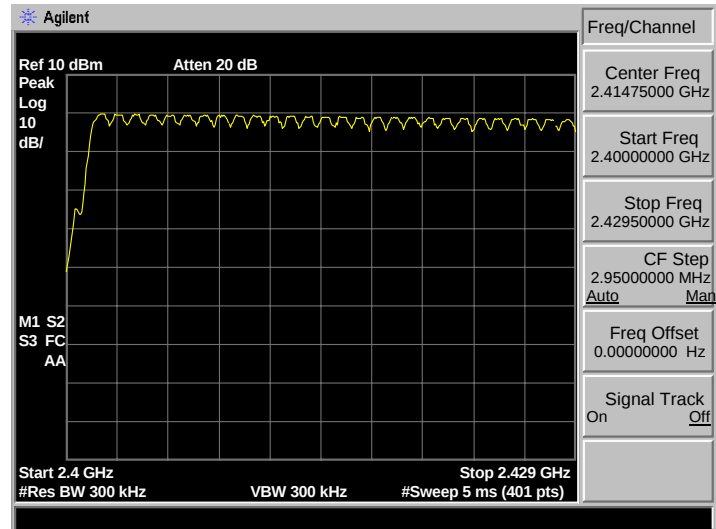
Adapter 2

EUT: Bluetooth clock radio		M/N:HX-B710	
Test date: 2013-03-17		Test site: RF site	Tested by: Tony.Tang
Mode	Number of hopping channel		Conclusion
GFSK	79	>15	PASS
8-DPSK	79	>15	PASS

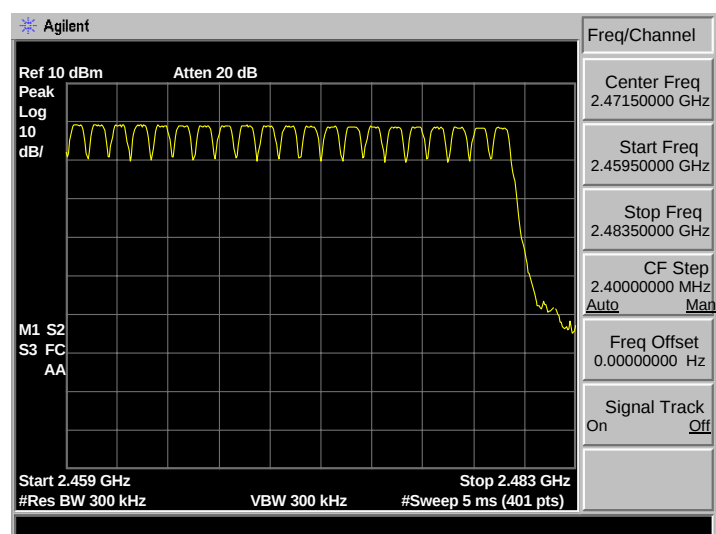
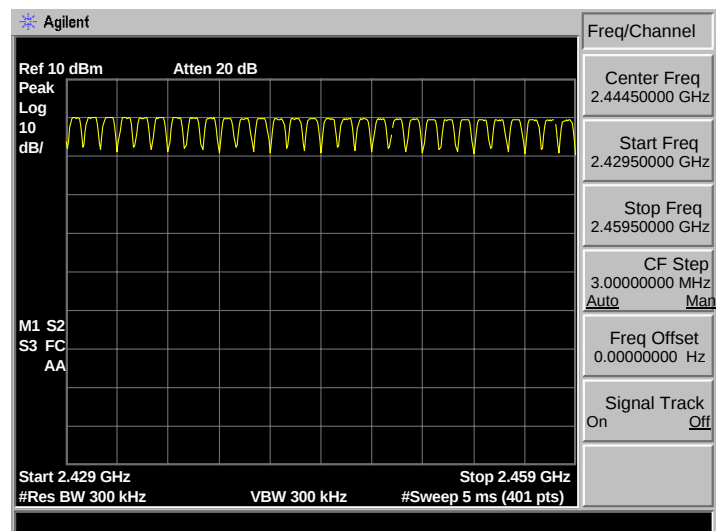
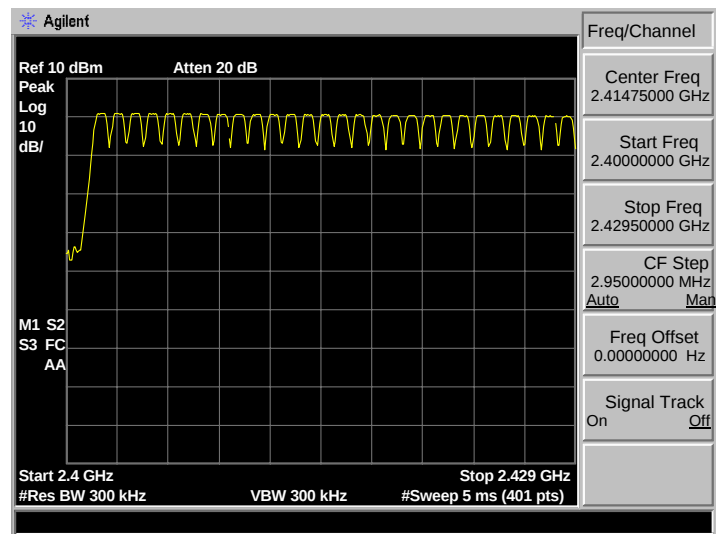
6.4. Test Data

Adapter 1
GFSK

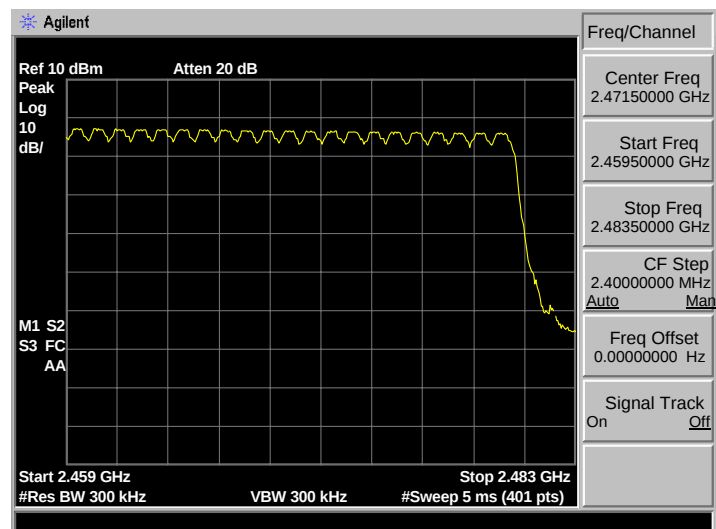
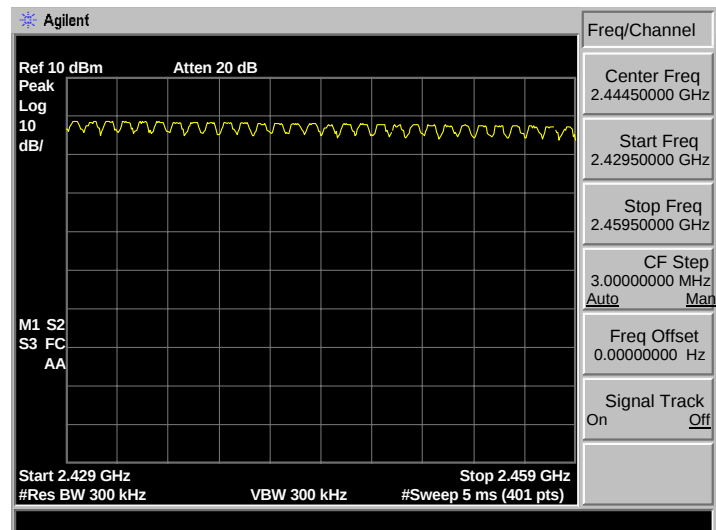
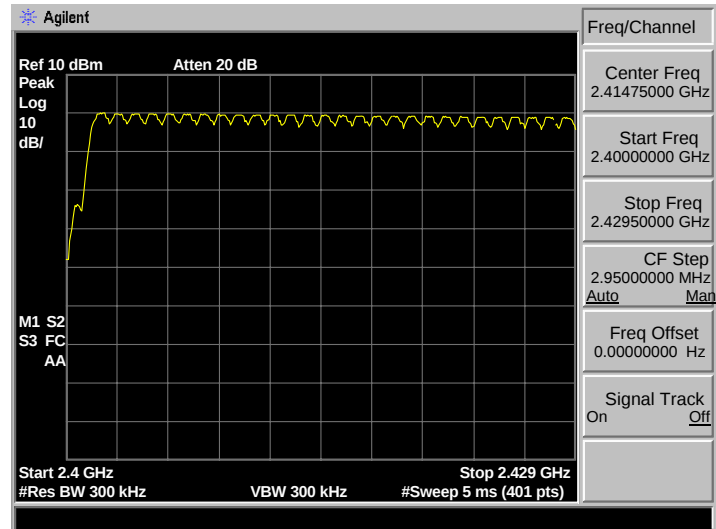
8-DPSK



Adapter 2 GFSK



8-DPSK



7. DWELL TIME

7.1. 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.

7.2. Test Result

Adapter 1

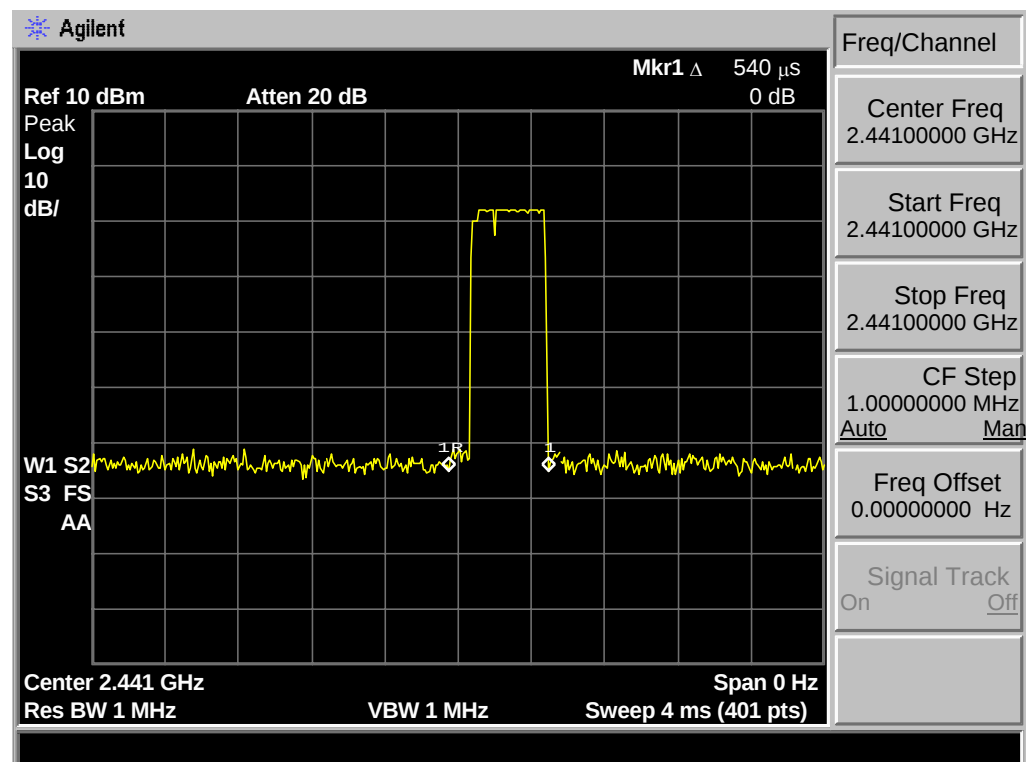
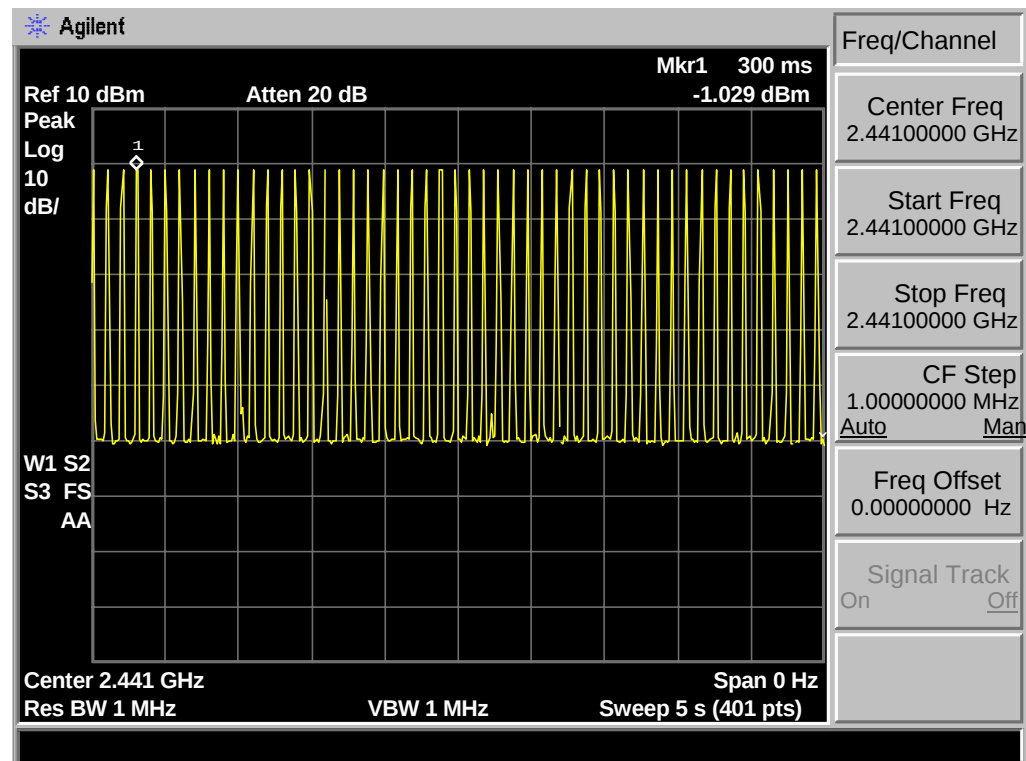
EUT: Bluetooth clock radio		M/N:HX-B710	
Test date: 2013-04-02		Test site: RF site	Tested by: Tony Tang
Mode	Dwell time	Limit	Conclusion
GFSK DH1	170.64	<400ms	PASS
GFSK DH3	295.46	<400ms	PASS
GFSK DH5	329.84	<400ms	PASS
8-DPSK DH1	170.64	<400ms	PASS
8-DPSK DH3	270.18	<400ms	PASS
8-DPSK DH5	329.84	<400ms	PASS

Adapter 2

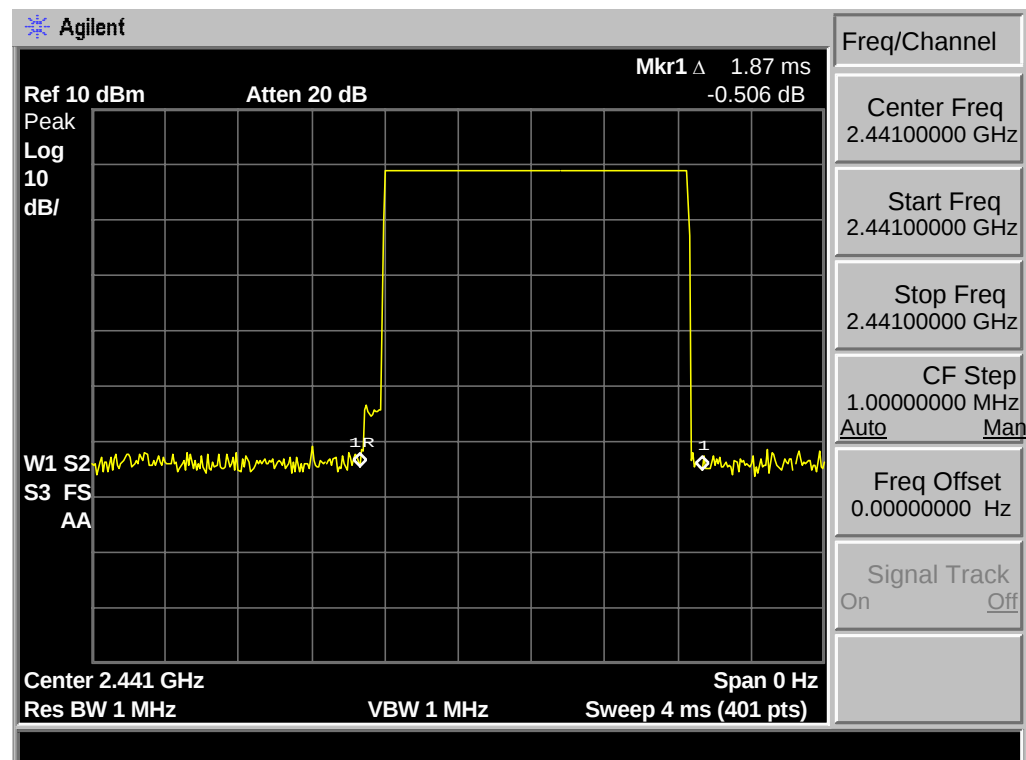
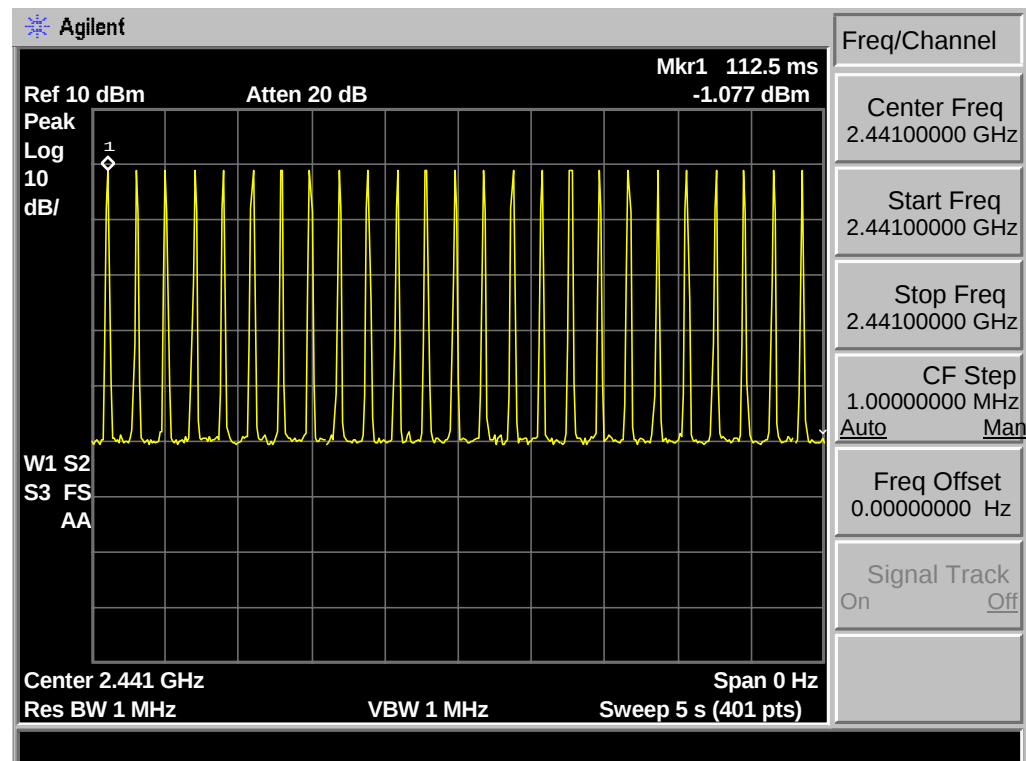
EUT: Bluetooth clock radio		M/N:HX-B710	
Test date: 2013-04-02		Test site: RF site	Tested by: Tony Tang
Mode	Dwell time	Limit	Conclusion
GFSK DH1	180.12	<400ms	PASS
GFSK DH3	285.98	<400ms	PASS
GFSK DH5	337.36	<400ms	PASS
8-DPSK DH1	192.76	<400ms	PASS
8-DPSK DH3	295.46	<400ms	PASS
8-DPSK DH5	330.92	<400ms	PASS

7.3. Test Data

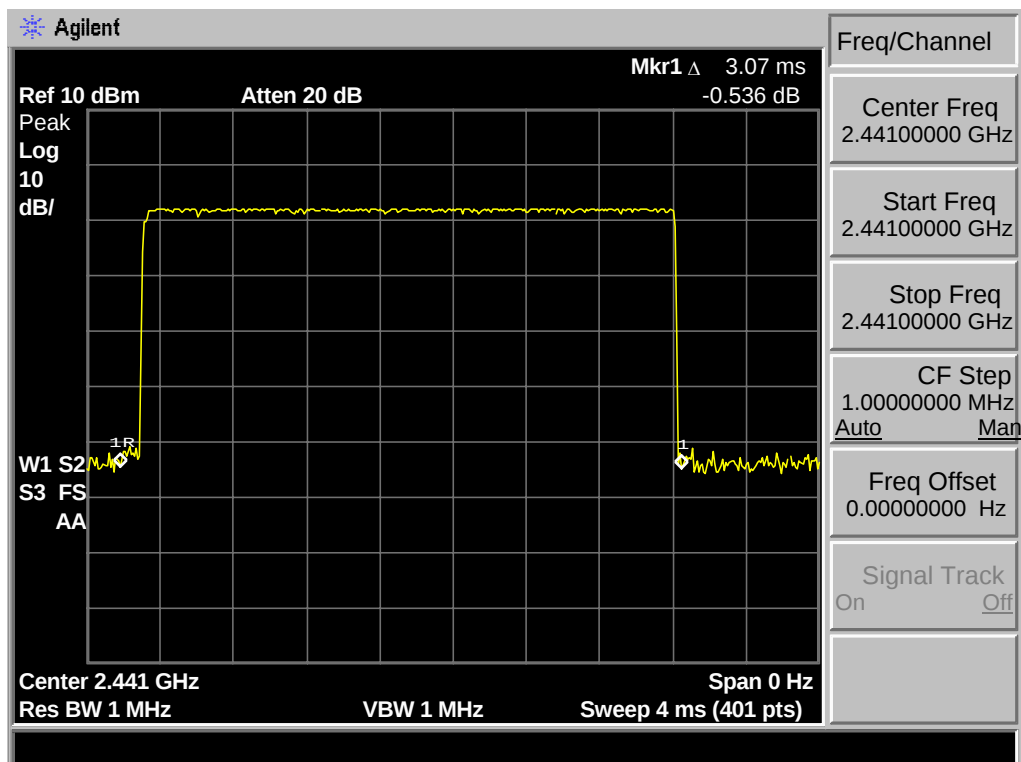
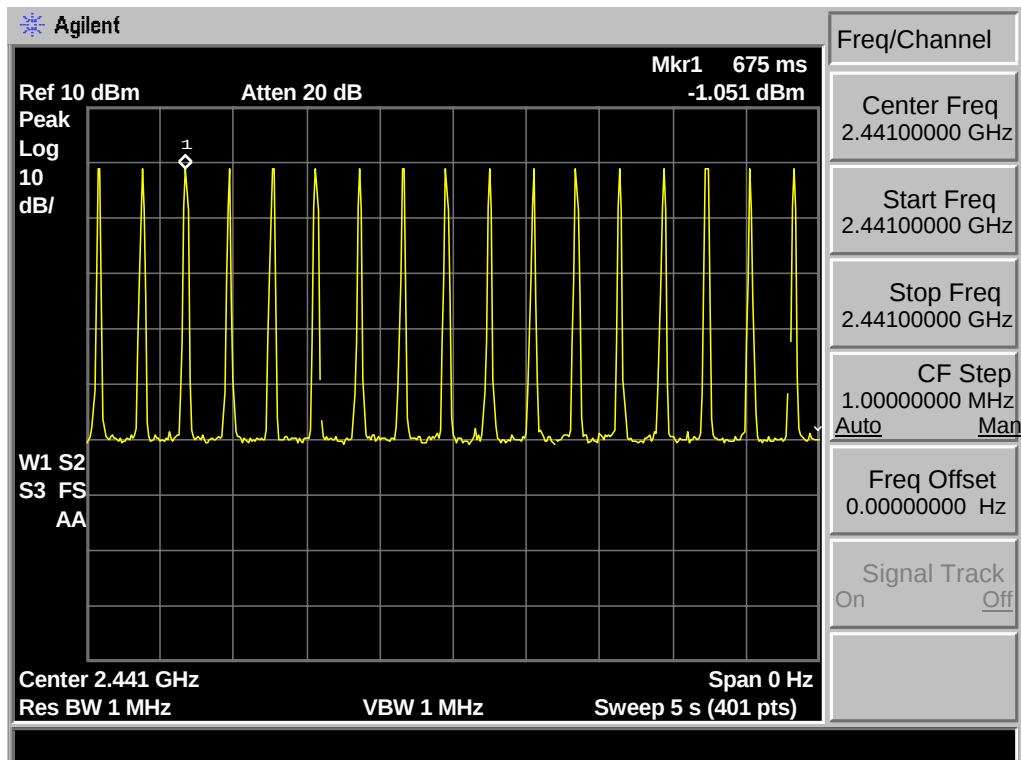
Adapter 1

$$\text{GFSK DH1 : } 50\text{hop}/5\text{s} * 0.4 * 79 * 0.540\text{ms} = 170.64$$


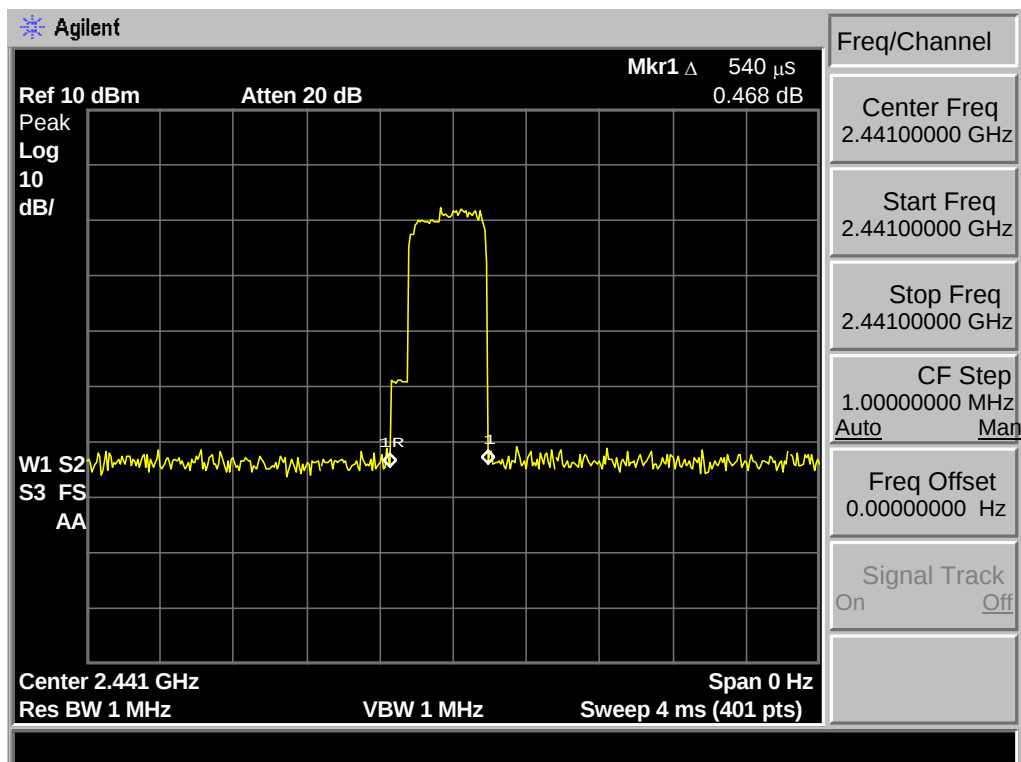
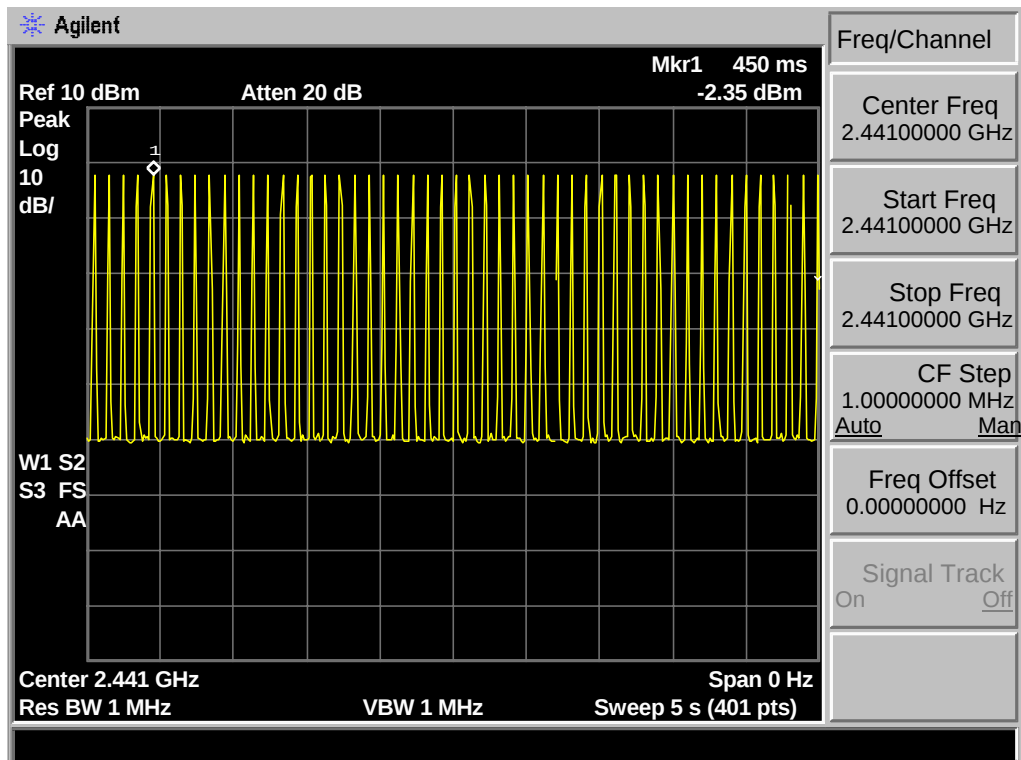
GFSK DH3 : $25\text{hop}/5\text{s} * 0.4 * 79 * 1.87\text{ms} = 295.46$



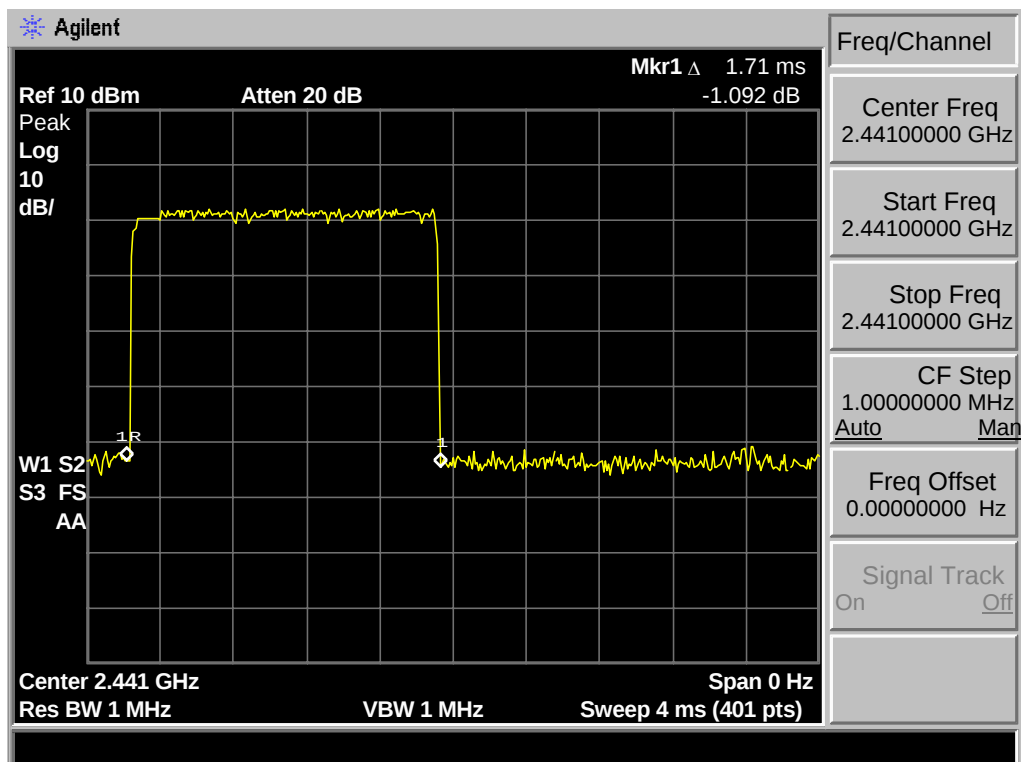
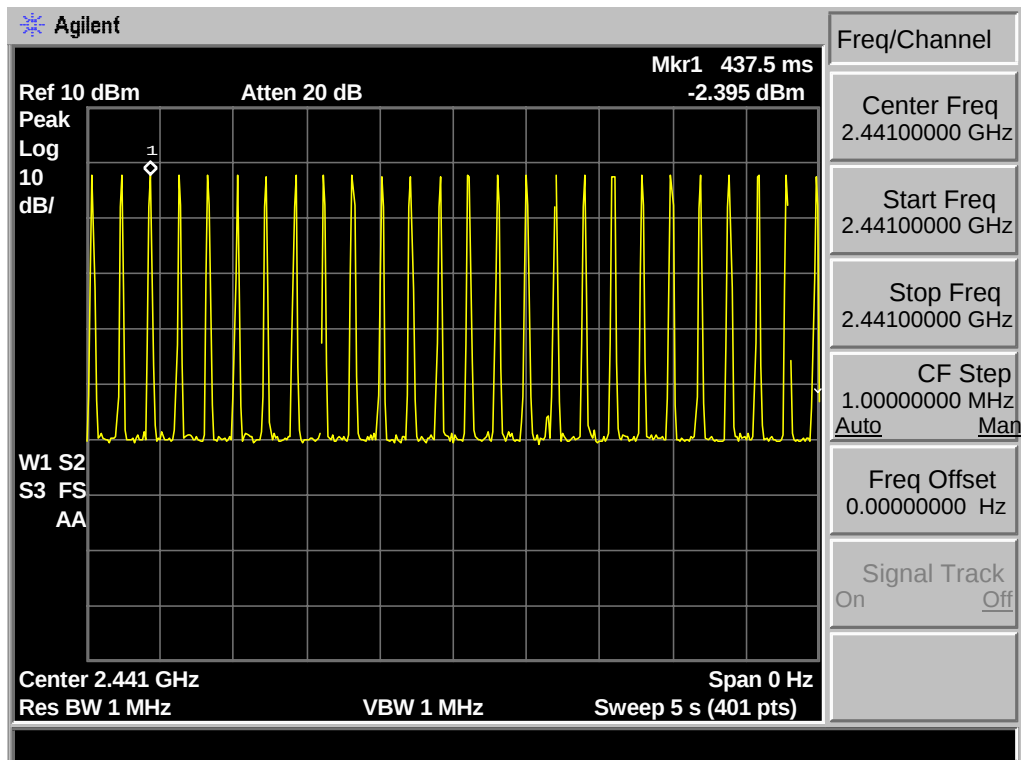
GSKF DH5 : $17\text{hop}/5\text{s} * 0.4 * 79 * 3.07\text{ms} = 329.84$



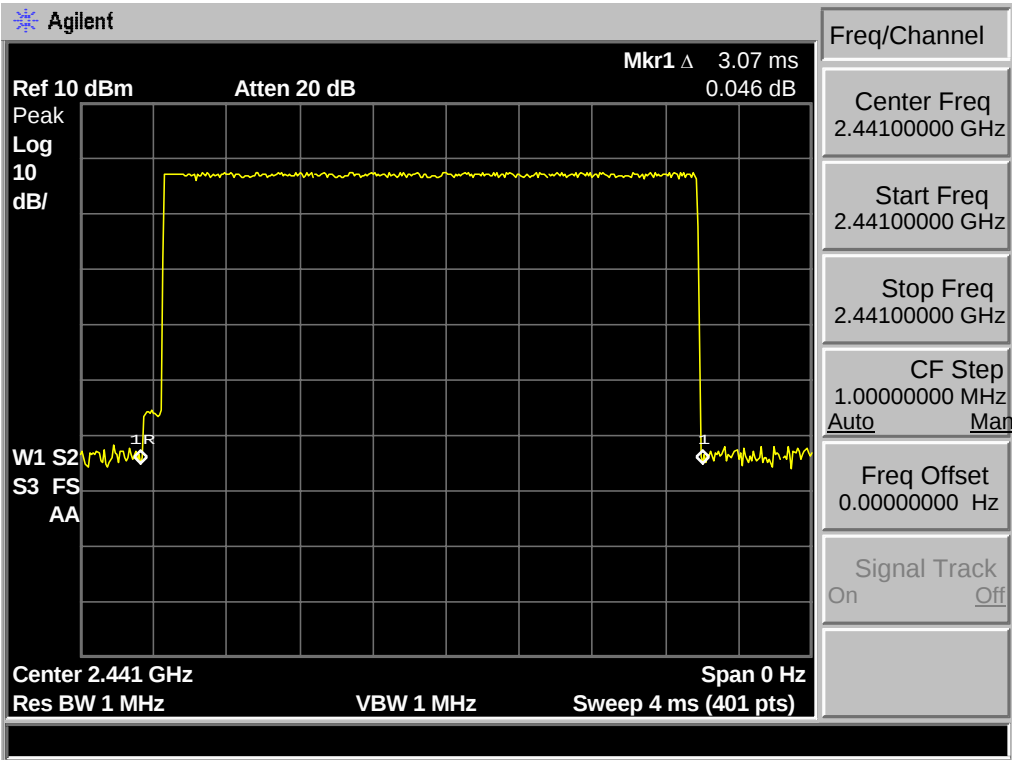
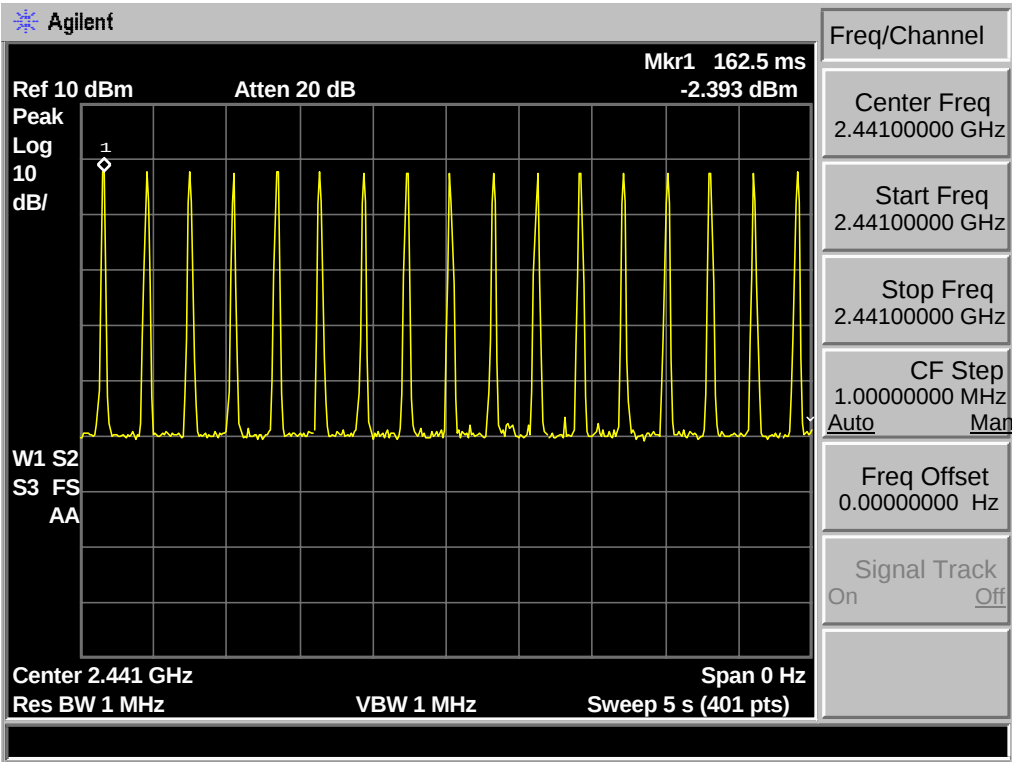
8-DPSK DH1: $50\text{hop}/5 * 0.4 * 79 * 0.54\text{ms} = 170.64$



8-DPSK DH3: $25/5 * 0.4 * 79 * 1.71\text{ms} = 270.18$

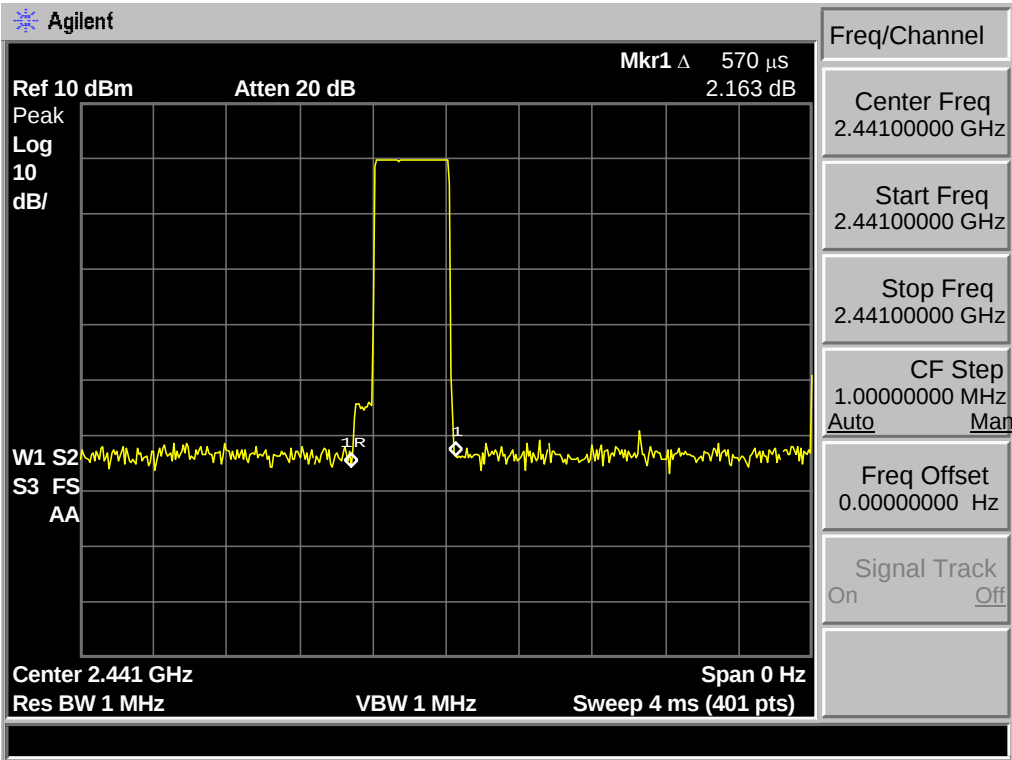
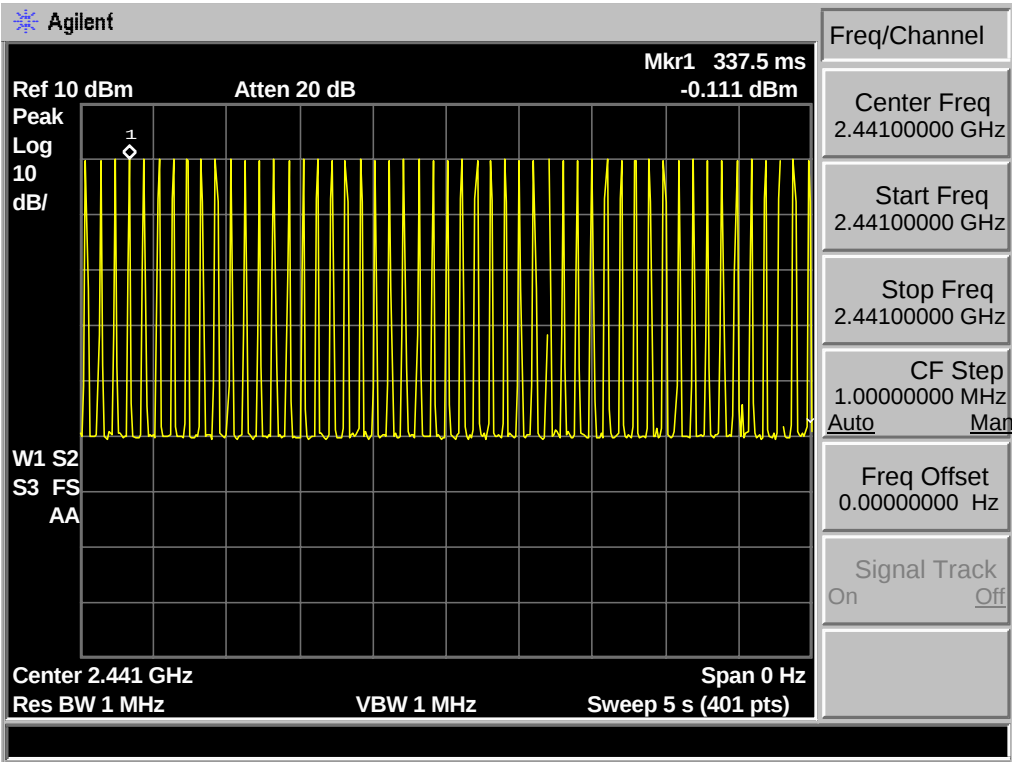


8-DPSK DH5: 17/5 * 0.4 *79 *3.07ms=329.84

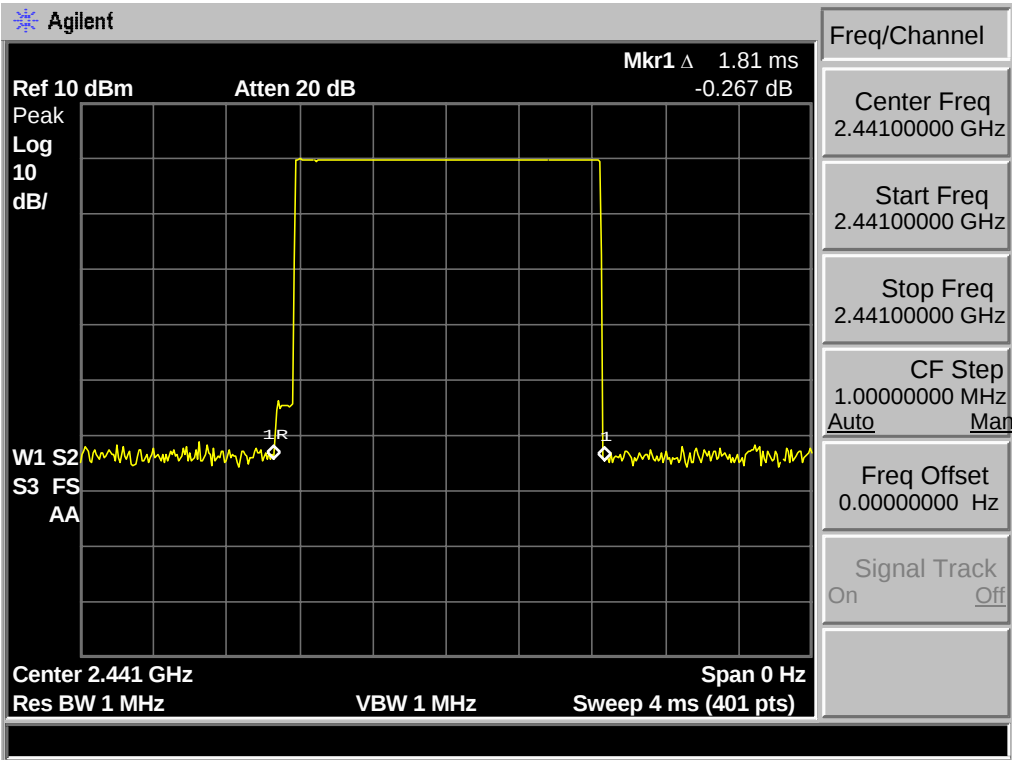
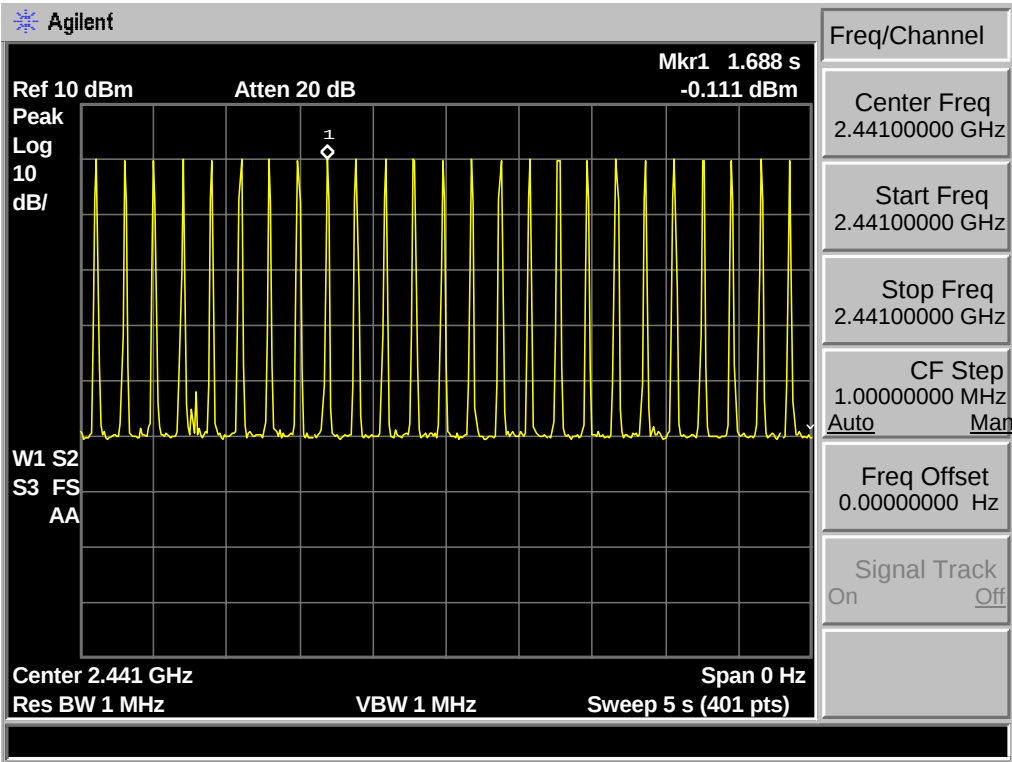


Adapter 2

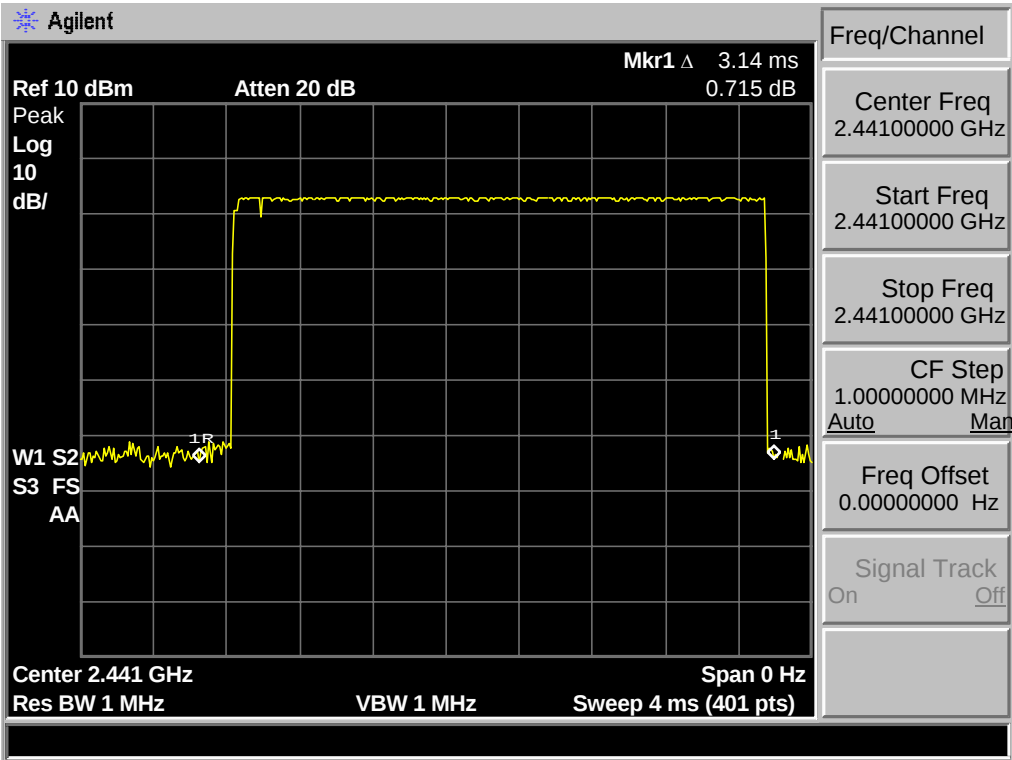
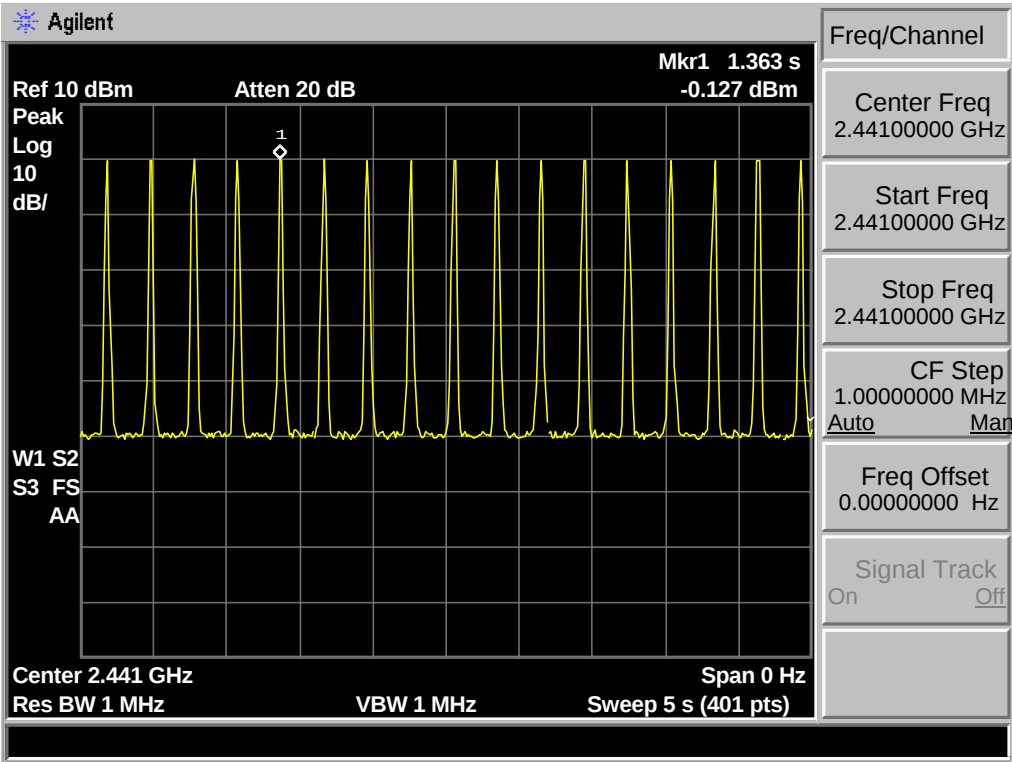
GFSK DH1 : $50\text{hop}/5\text{s} * 0.4 * 79 * 0.570\text{ms} = 180.12$



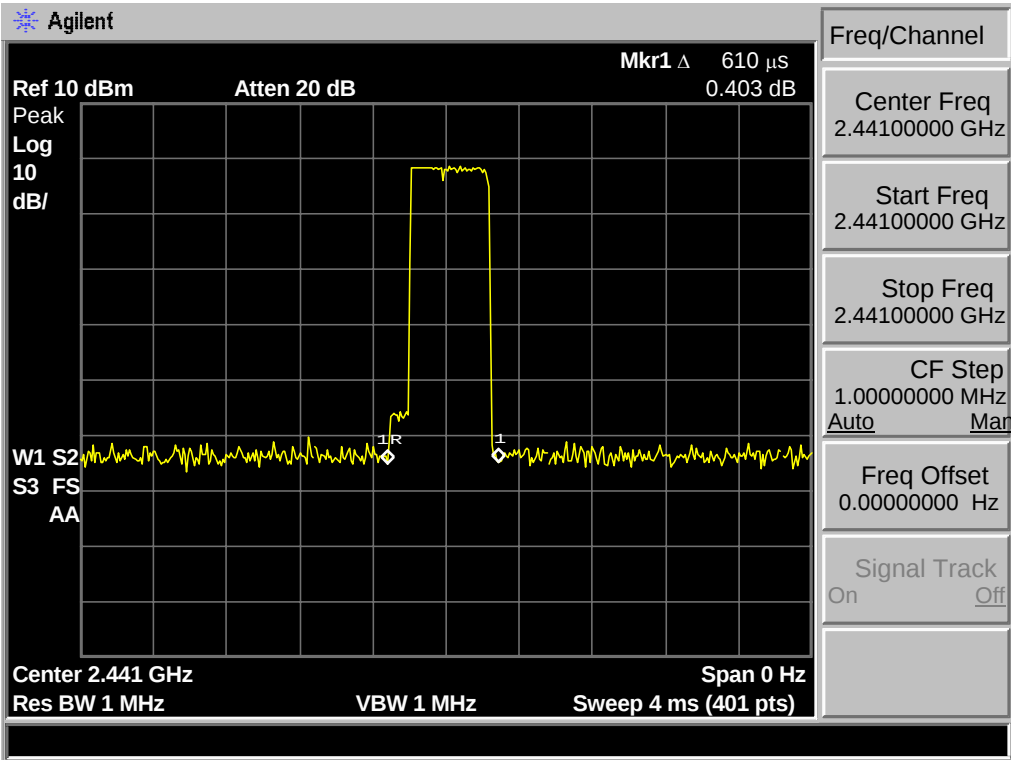
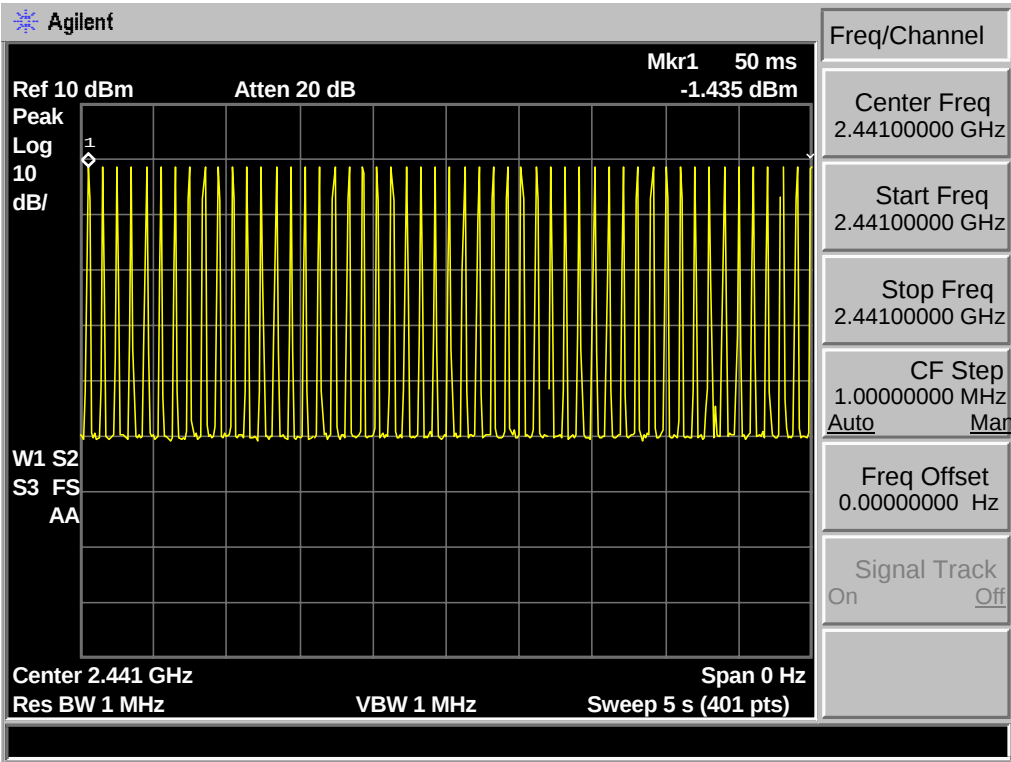
GFSK DH3 : 25hop/5s * 0.4 * 79 * 1.81ms= 285.98



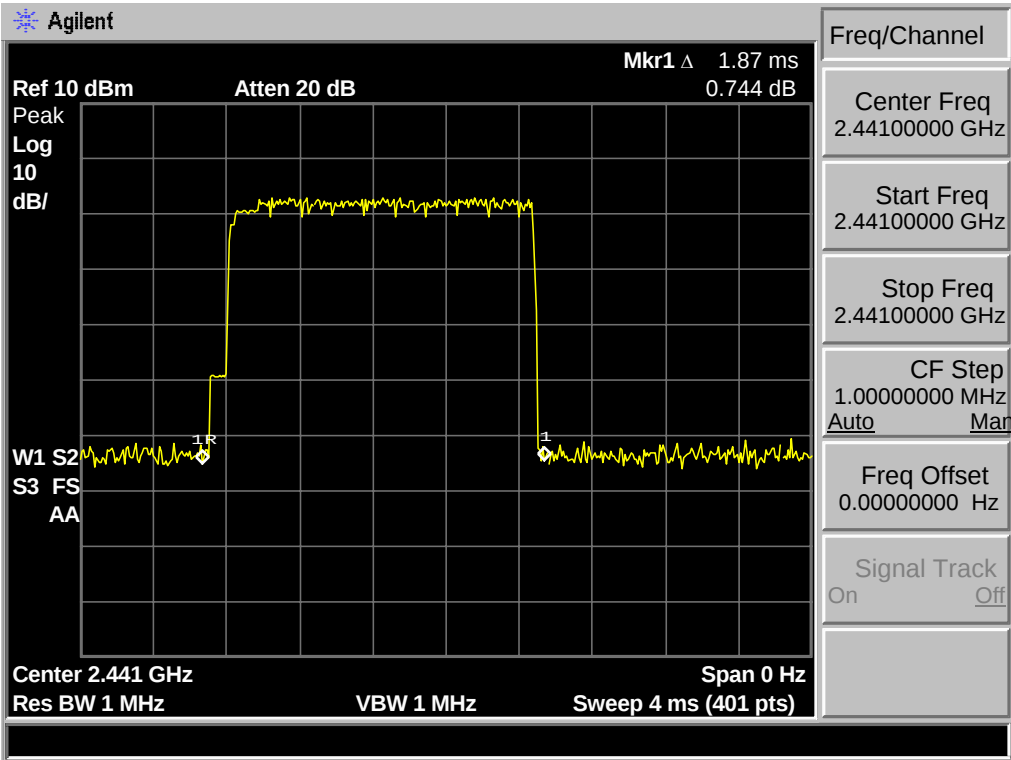
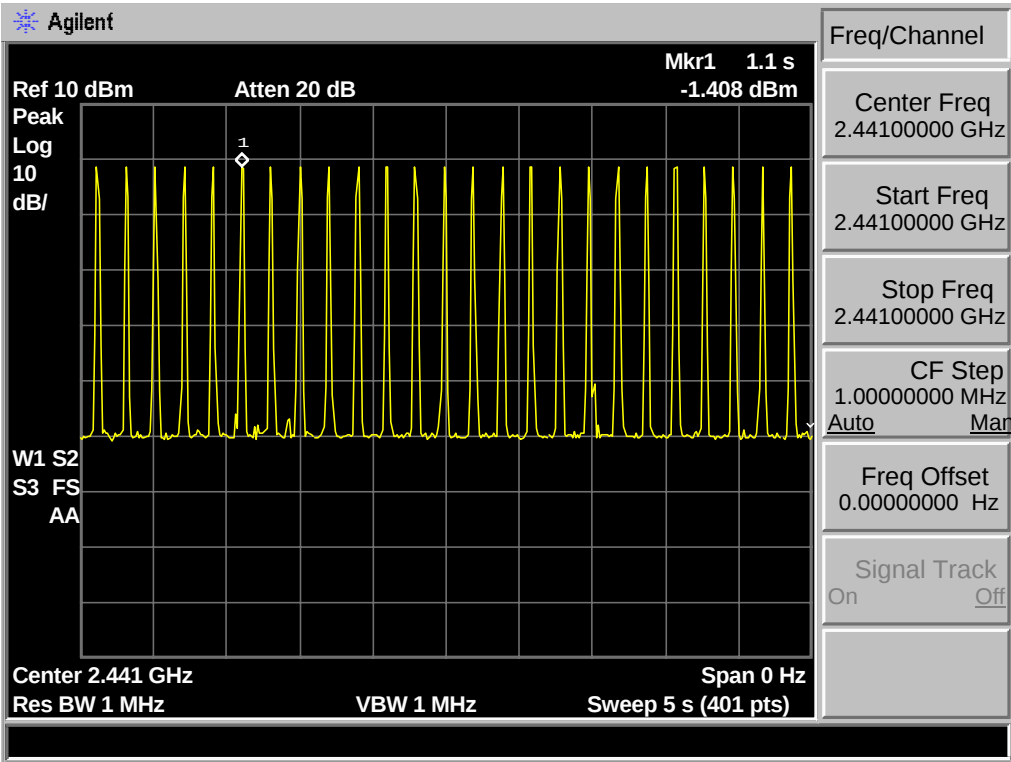
GSFK DH5 : $17\text{hop}/5\text{s} * 0.4 * 79 * 3.14\text{ms} = 337.36$



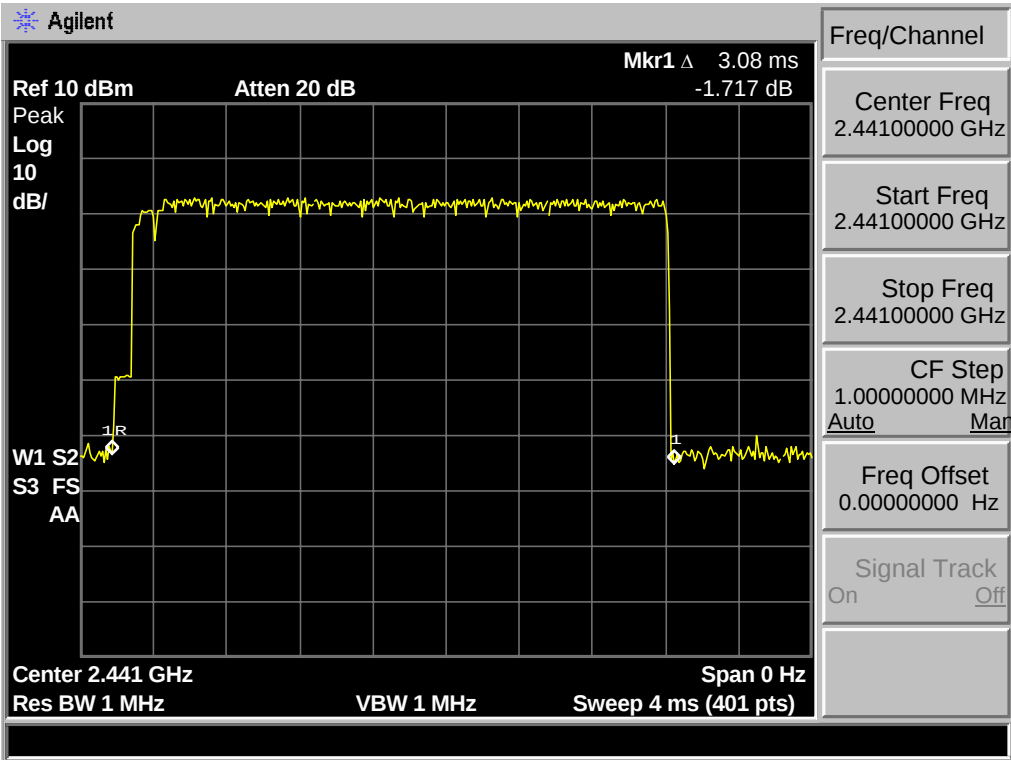
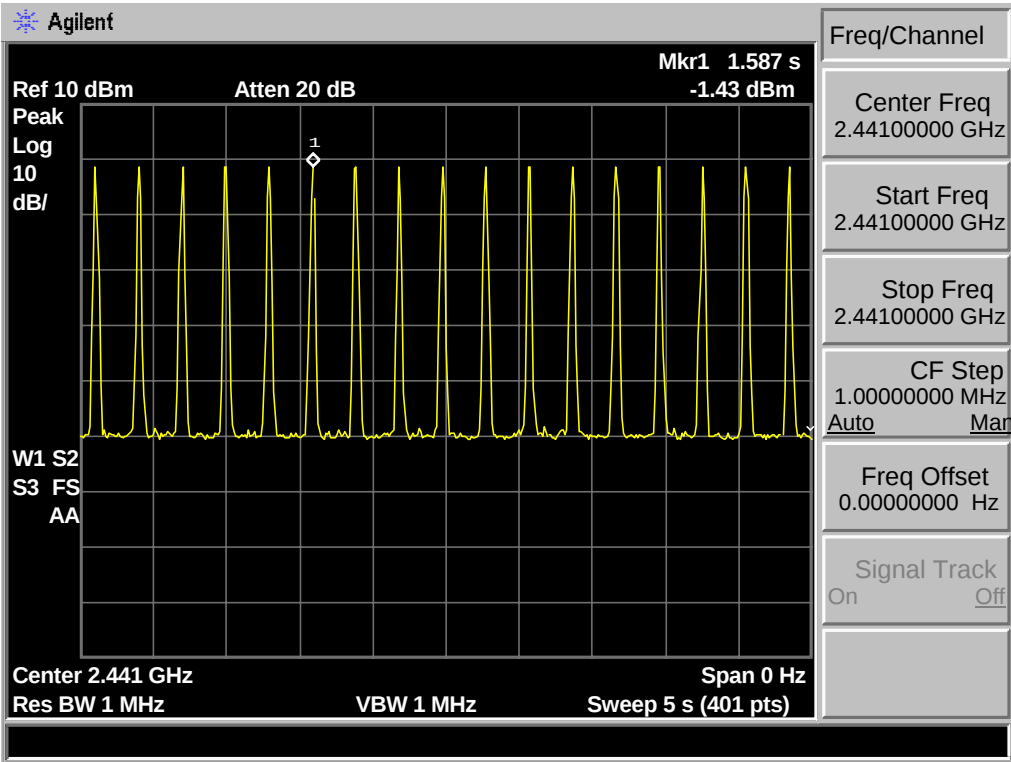
8-DPSK DH1: 50hop/5 * 0.4 * 79 * 0.61ms=192.76



8-DPSK DH3: 25/5 * 0.4 *79 *1.87ms=295.46



8-DPSK DH5: 17/5 * 0.4 *79 *3.08ms=330.92



8. RADIATED EMISSIONS

8.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

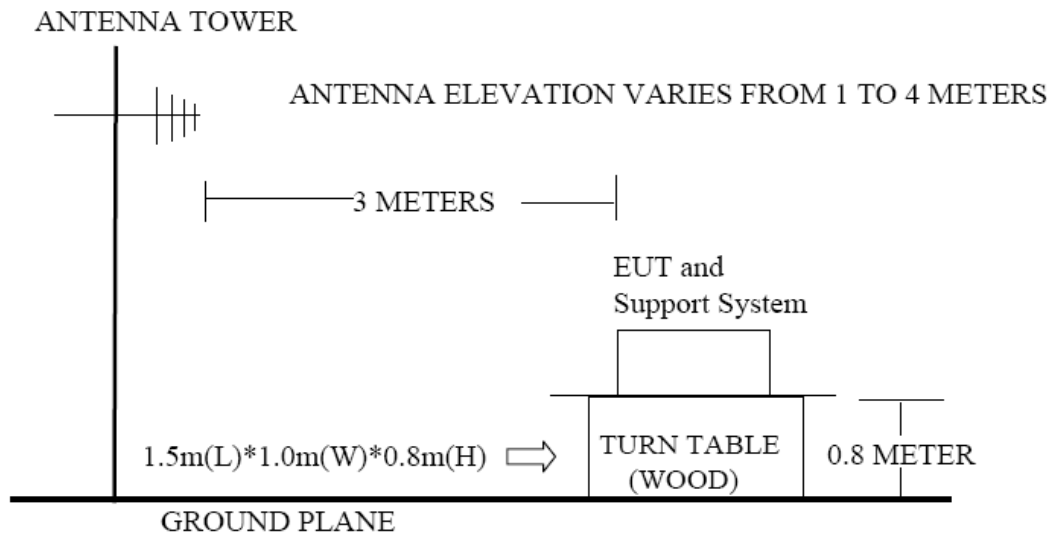
15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

15.209 Limit

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 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

8.2. Block Diagram of Test setup



8.3. Test Procedure

EUT was 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. Power on the EUT and let it working in test mode, then test it. 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. Both horizontal and vertical polarization of the antenna are set on 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 VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

8.4. Test Result

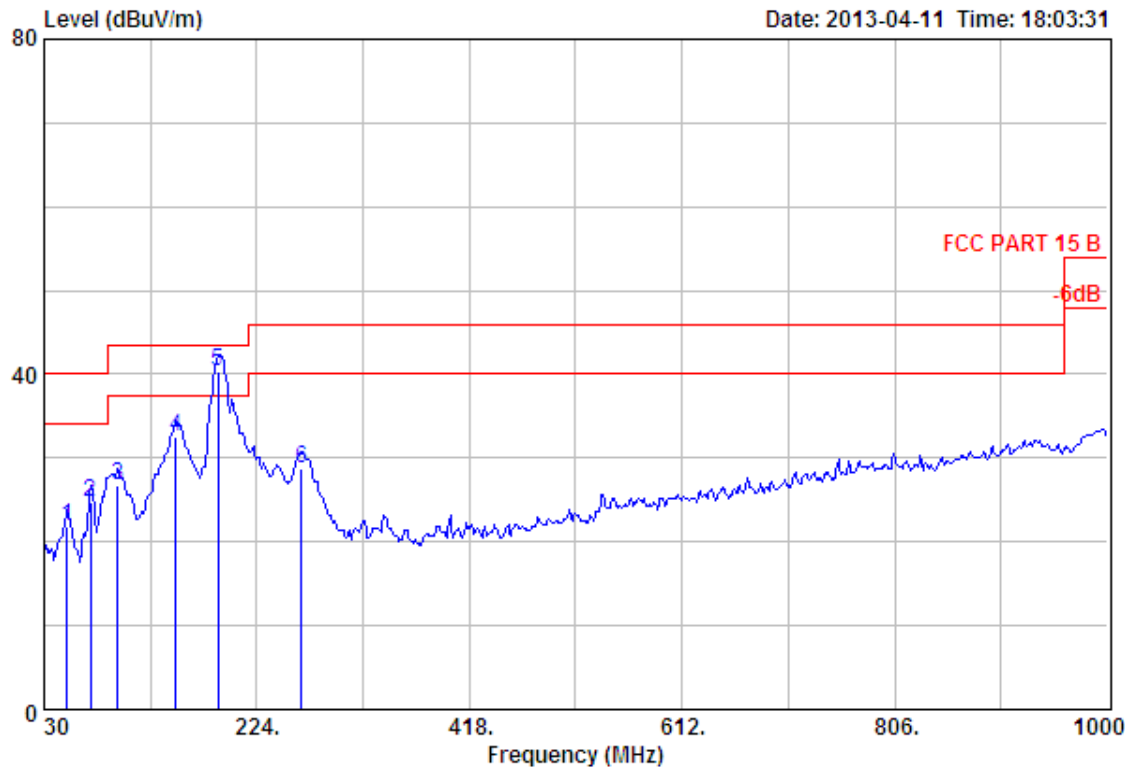
30MHz—25GHz Radiated emissison Test result	
EUT: Bluetooth clock radio	M/N:HX-B710
Power:DC 7.5V From Adapter Input AC 120V/60Hz	
Test date: 2013-04-11 Test site: 3m Chamber Tested by: Tony Tang	
Test mode: Tx Mode	
Pass	

Note: 1、 For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

- 2、 The frequency 2402MHz 、2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

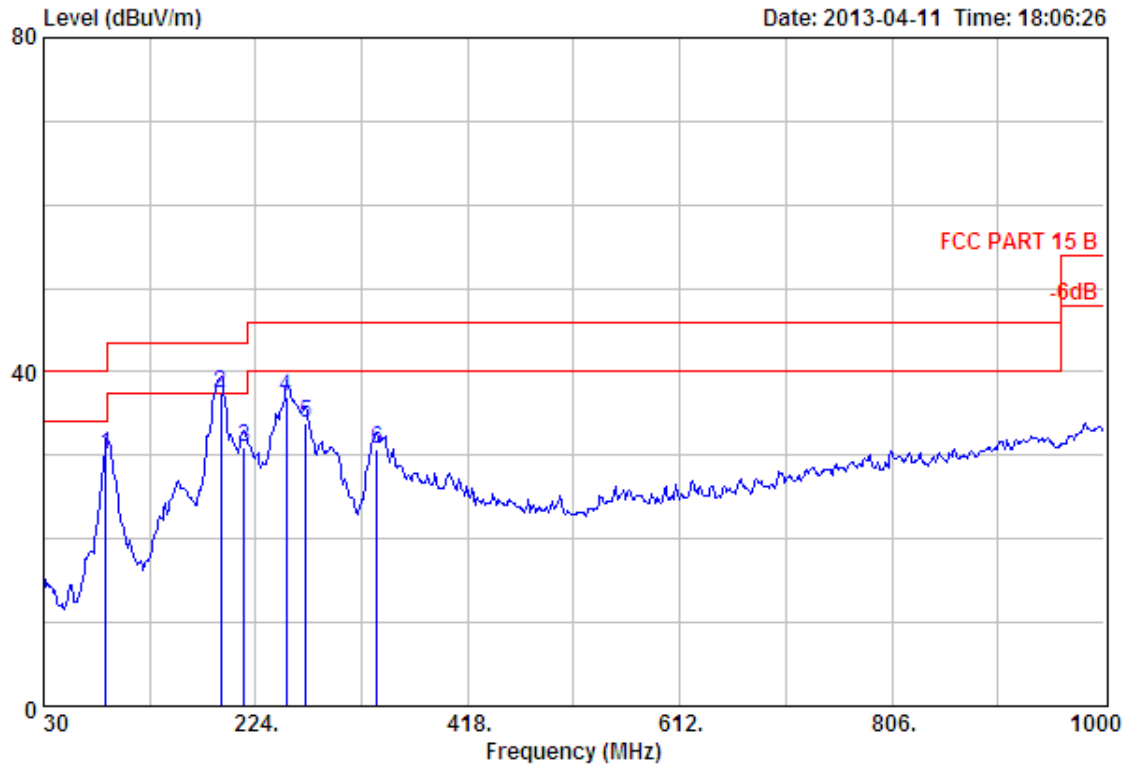
8.5. Test Data

30 MHz – 1000 MHz



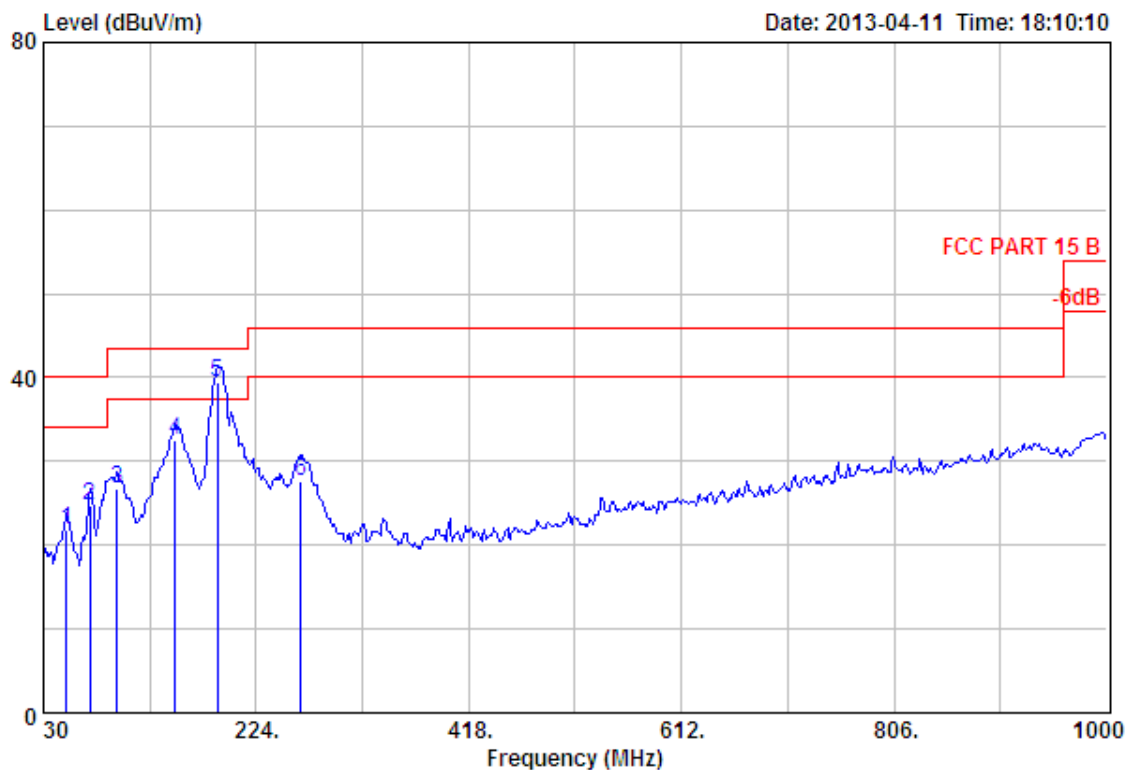
Site no.	: 3m Chamber	Data no.	: 131
Dis. / Ant.	: 3m 27137	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 B		
Env. / Ins.	: Temp:25.6';Humi:56%;Press:101.52kPa		
Engineer	: Dick		
EUT	: Bluetooth clock radio		
Power	: DC 7.5V From Adapter Input AC 120V/60Hz		
M/N	: HX-B710		
Test Mode	: GFSK TX 2402MHz		
	Adapter 1		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	51.34	6.92	2.38	12.58	21.88	40.00	18.12	QP
2	72.68	6.12	2.83	15.82	24.77	40.00	15.23	QP
3	96.93	8.92	3.03	14.76	26.71	43.50	16.79	QP
4	150.28	10.86	3.78	17.83	32.47	43.50	11.03	QP
5	189.08	8.05	4.20	28.09	40.34	43.50	3.16	QP
6	264.74	12.94	4.97	10.78	28.69	46.00	17.31	QP



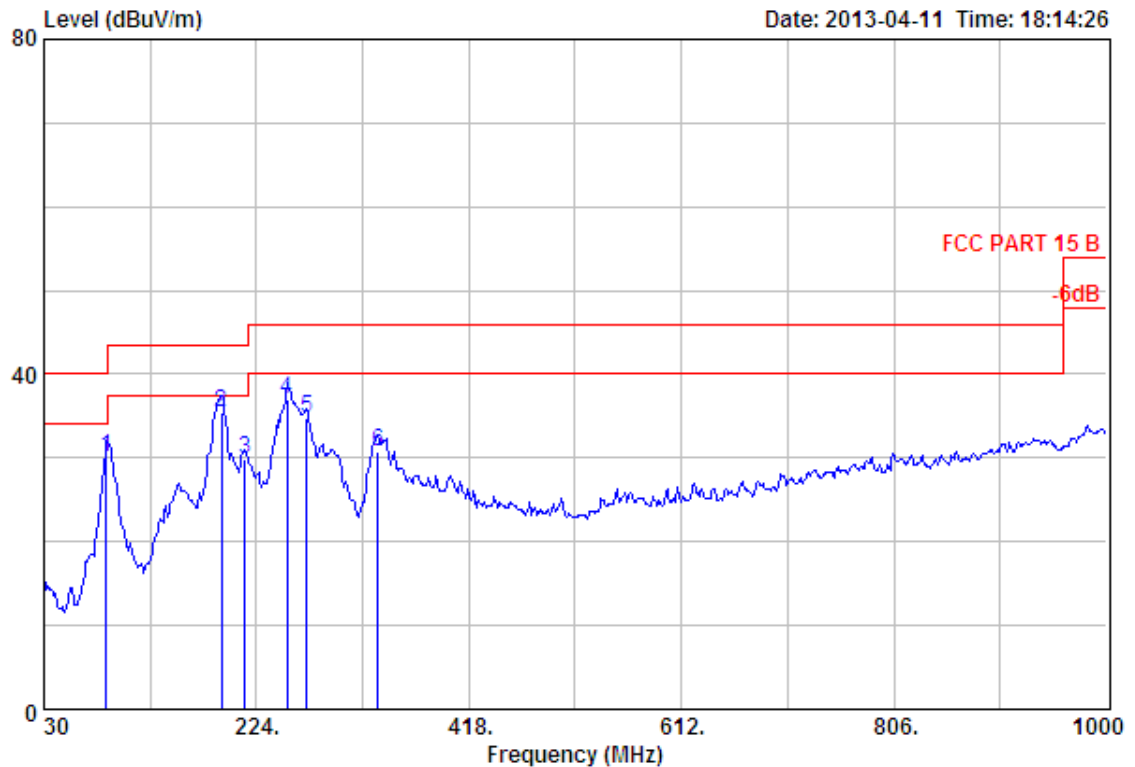
Site no. : 3m Chamber Data no. : 132
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : Bluetooth clock radio
Power : DC 7.5V From Adapter Input AC 120V/60Hz
M/N : HX-B710
Test Mode : GFSK TX 2402MHz
Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission		Margin (dB)	Reamark (dB)
					Level (dBuV/m)	Limits (dBuV/m)		
1	87.23	7.97	2.96	19.17	30.10	40.00	9.90	QP
2	191.99	7.85	4.22	25.45	37.52	43.50	5.98	QP
3	213.33	8.60	4.35	17.99	30.94	43.50	12.56	QP
4	252.13	12.06	4.82	20.14	37.02	46.00	8.98	QP
5	269.59	12.56	5.01	16.25	33.82	46.00	12.18	QP
6	334.58	13.99	5.52	11.26	30.77	46.00	15.23	QP



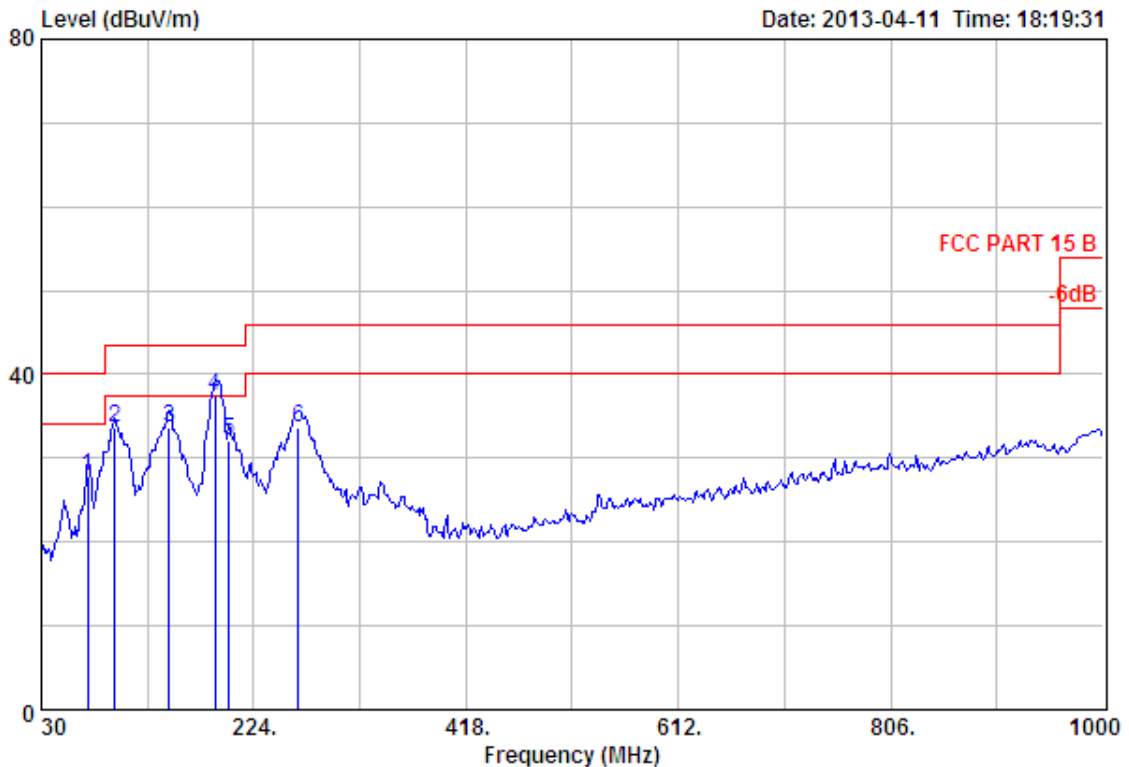
Site no. : 3m Chamber Data no. : 133
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : GFSK TX 2441MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	51.34	6.92	2.38	12.58	21.88	40.00	18.12	QP
2	72.68	6.12	2.83	15.82	24.77	40.00	15.23	QP
3	96.93	8.92	3.03	14.76	26.71	43.50	16.79	QP
4	150.28	10.86	3.78	17.83	32.47	43.50	11.03	QP
5	189.08	8.05	4.20	27.09	39.34	43.50	4.16	QP
6	264.74	12.94	4.97	9.78	27.69	46.00	18.31	QP



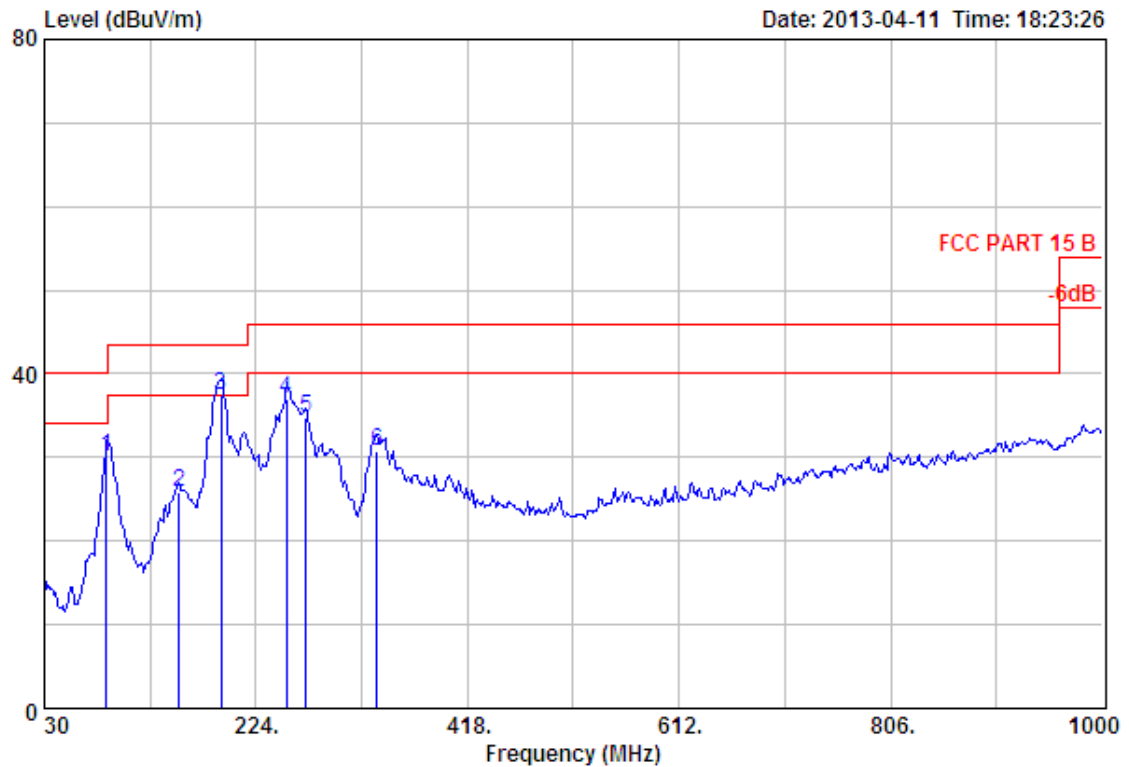
Site no. : 3m Chamber Data no. : 134
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : GFSK TX 2441MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	87.23	7.97	2.96	19.17	30.10	40.00	9.90	QP
2	191.99	7.85	4.22	23.45	35.52	43.50	7.98	QP
3	213.33	8.60	4.35	16.99	29.94	43.50	13.56	QP
4	252.13	12.06	4.82	20.14	37.02	46.00	8.98	QP
5	269.59	12.56	5.01	17.25	34.82	46.00	11.18	QP
6	334.58	13.99	5.52	11.26	30.77	46.00	15.23	QP



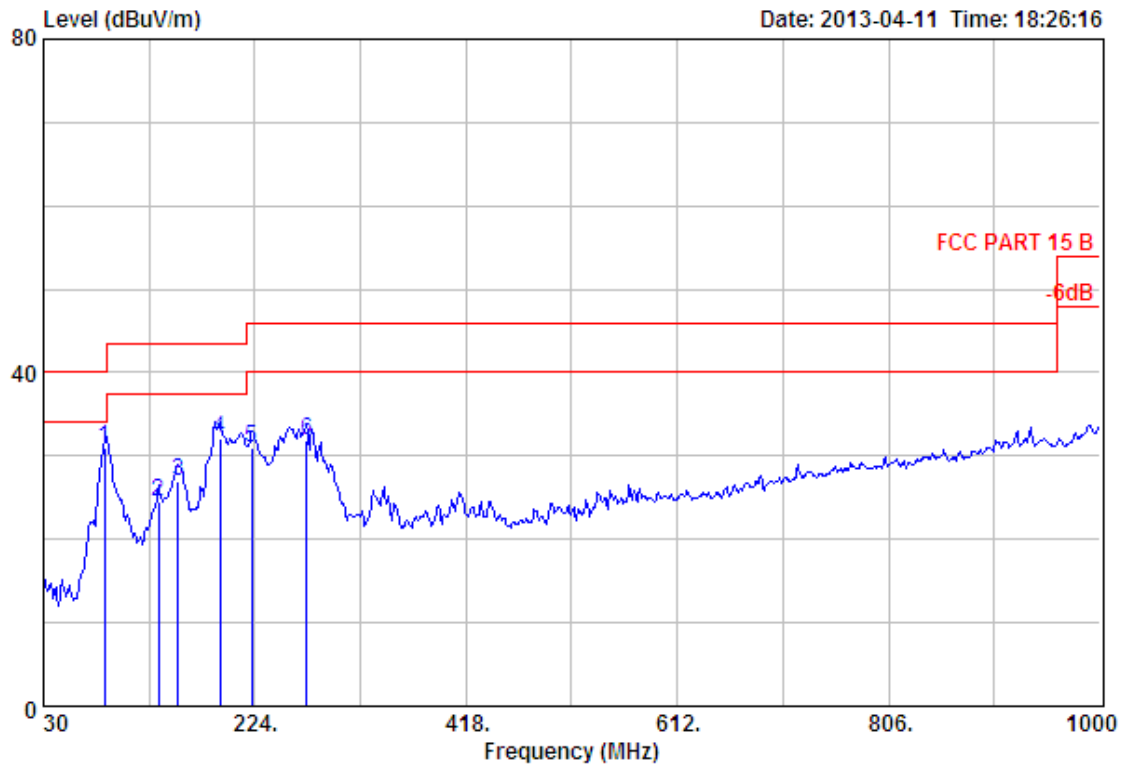
Site no. : 3m Chamber Data no. : 135
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : GFSK TX 2480MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	72.68	6.12	2.83	18.82	27.77	40.00	12.23	QP
2	96.93	8.92	3.03	21.76	33.71	43.50	9.79	QP
3	146.40	11.15	3.74	18.82	33.71	43.50	9.79	QP
4	189.08	8.05	4.20	25.09	37.34	43.50	6.16	QP
5	201.69	7.79	4.30	19.90	31.99	43.50	11.51	QP
6	264.74	12.94	4.97	15.78	33.69	46.00	12.31	QP



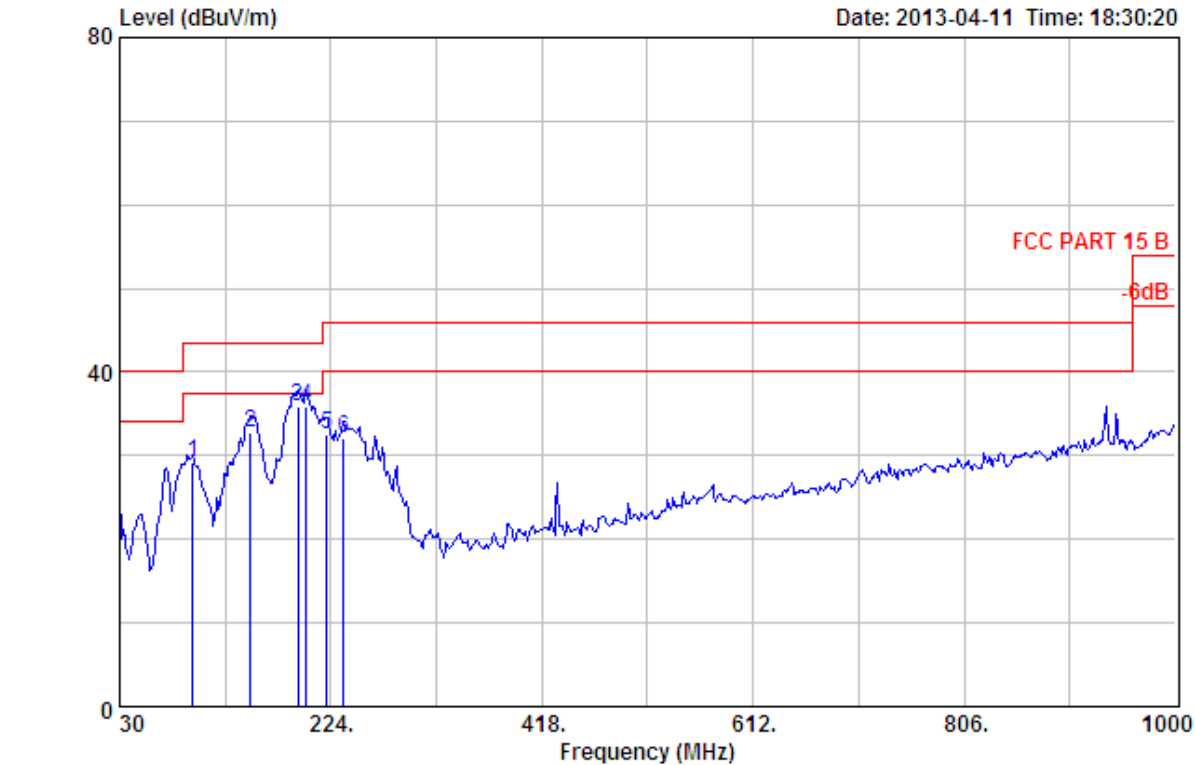
Site no. : 3m Chamber Data no. : 136
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : GFSK TX 2480MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	87.23	7.97	2.96	19.17	30.10	40.00	9.90	QP
2	153.19	10.75	3.81	11.39	25.95	43.50	17.55	QP
3	191.99	7.85	4.22	25.45	37.52	43.50	5.98	QP
4	252.13	12.06	4.82	20.14	37.02	46.00	8.98	QP
5	269.59	12.56	5.01	17.25	34.82	46.00	11.18	QP
6	334.58	13.99	5.52	11.26	30.77	46.00	15.23	QP



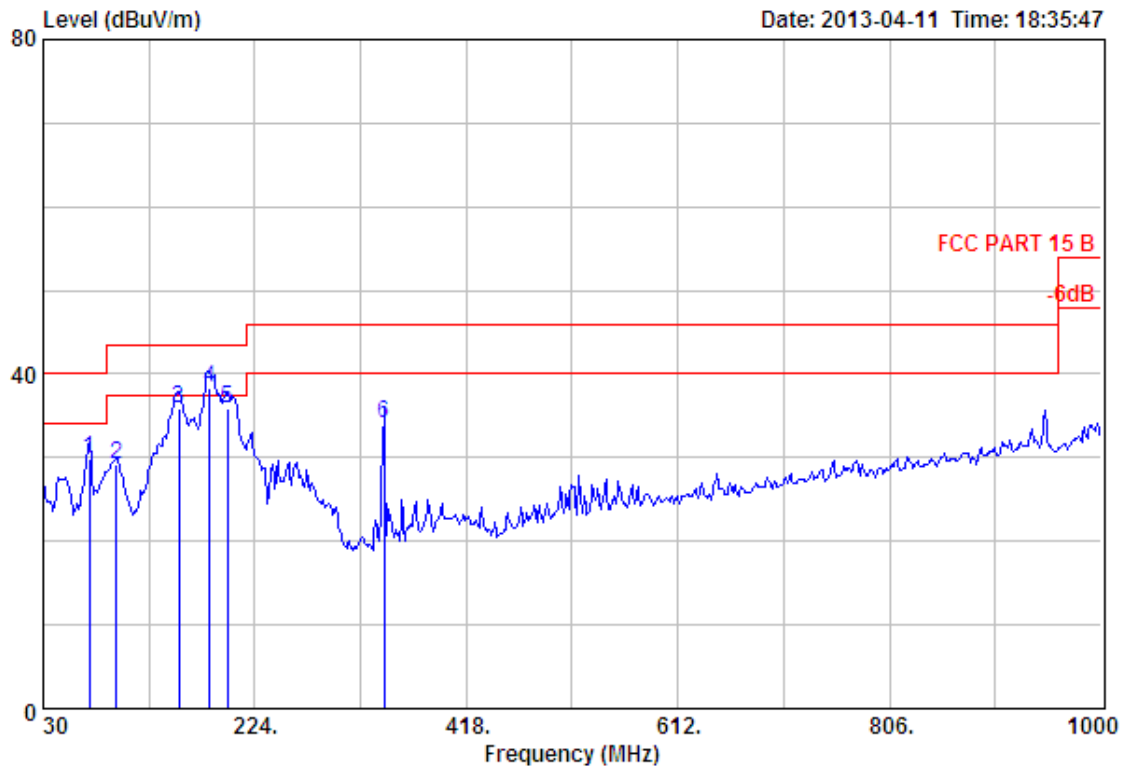
Site no. : 3m Chamber Data no. : 137
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	86.26	7.84	2.91	20.22	30.97	40.00	9.03	QP
2	135.73	11.38	3.60	9.63	24.61	43.50	18.89	QP
3	153.19	10.75	3.81	12.39	26.95	43.50	16.55	QP
4	191.99	7.85	4.22	20.04	32.11	43.50	11.39	QP
5	221.09	9.26	4.45	17.34	31.05	46.00	14.95	QP
6	271.53	12.49	5.02	14.45	31.96	46.00	14.04	QP



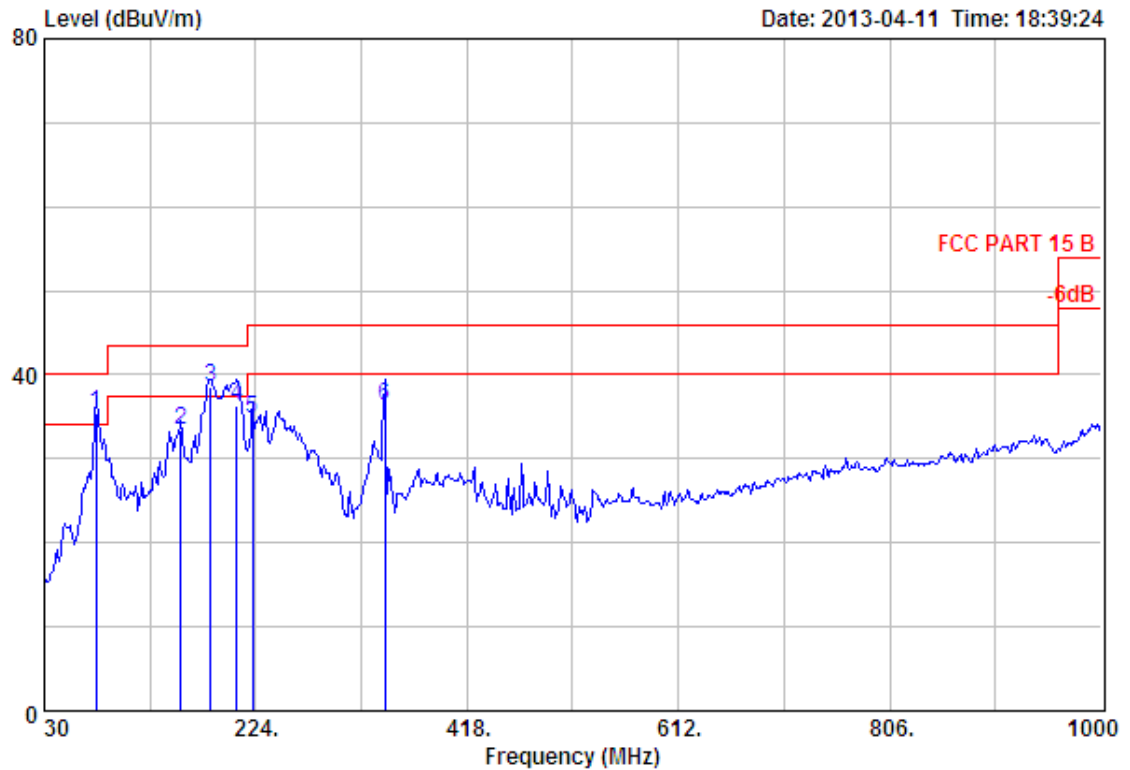
Site no. : 3m Chamber Data no. : 138
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Dick
EUT : Bluetooth clock radio
Power : DC 7.5V From Adapter Input AC 120V/60Hz
M/N : HX-B710
Test Mode : 8-DPSK TX 2402MHz
Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Reamark (dB)
1	96.93	8.92	3.03	17.15	29.10	43.50	14.40	QP
2	150.28	10.86	3.78	18.08	32.72	43.50	10.78	QP
3	193.93	7.76	4.21	24.00	35.97	43.50	7.53	QP
4	201.69	7.79	4.30	23.69	35.78	43.50	7.72	QP
5	220.12	9.20	4.44	18.92	32.56	46.00	13.44	QP
6	235.64	9.80	4.64	17.66	32.10	46.00	13.90	QP



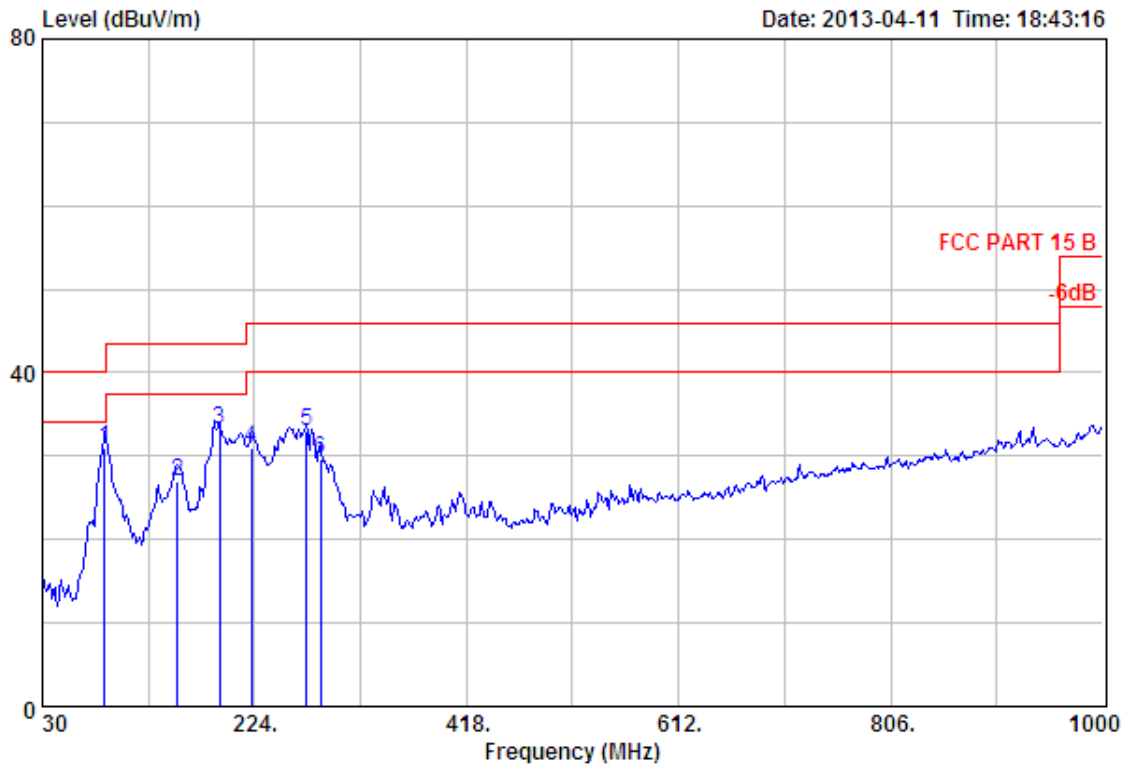
Site no. : 3m Chamber Data no. : 139
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : 8-DPSK TX 2441MHz
 Adapter 1

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Reamark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)
1	72.68	6.12	2.83	20.94	29.89	40.00	10.11	QP
2	96.93	8.92	3.03	17.14	29.09	43.50	14.41	QP
3	154.16	10.71	3.82	21.34	35.87	43.50	7.63	QP
4	182.29	8.76	4.15	25.49	38.40	43.50	5.10	QP
5	198.78	7.71	4.24	23.82	35.77	43.50	7.73	QP
6	342.34	14.22	5.62	14.17	34.01	46.00	11.99	QP



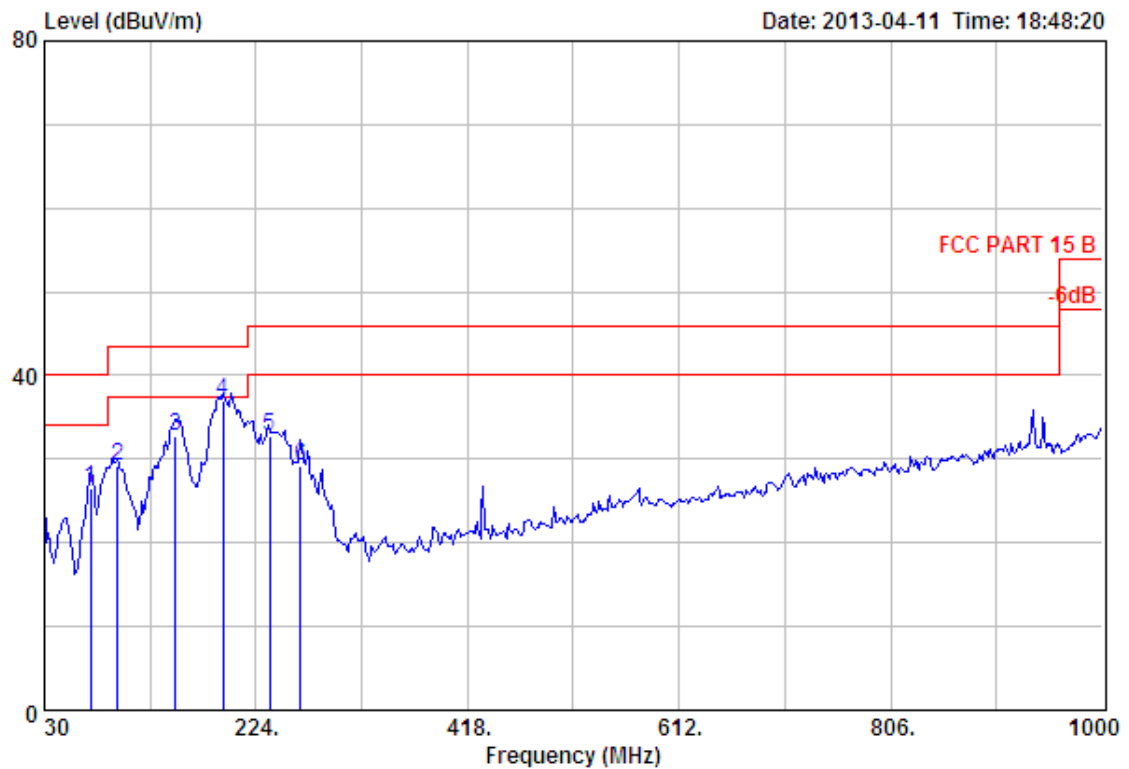
Site no. : 3m Chamber Data no. : 140
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : 8-DPSK TX 2441MHz
 Adapter 1

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)
1	77.53	6.80	2.83	25.80	35.43	40.00	4.57	QP
2	155.13	10.67	3.82	19.01	33.50	43.50	10.00	QP
3	182.29	8.76	4.15	25.54	38.45	43.50	5.05	QP
4	206.54	8.09	4.32	24.00	36.41	43.50	7.09	QP
5	221.09	9.26	4.45	21.04	34.75	46.00	11.25	QP
6	342.34	14.22	5.62	16.51	36.35	46.00	9.65	QP



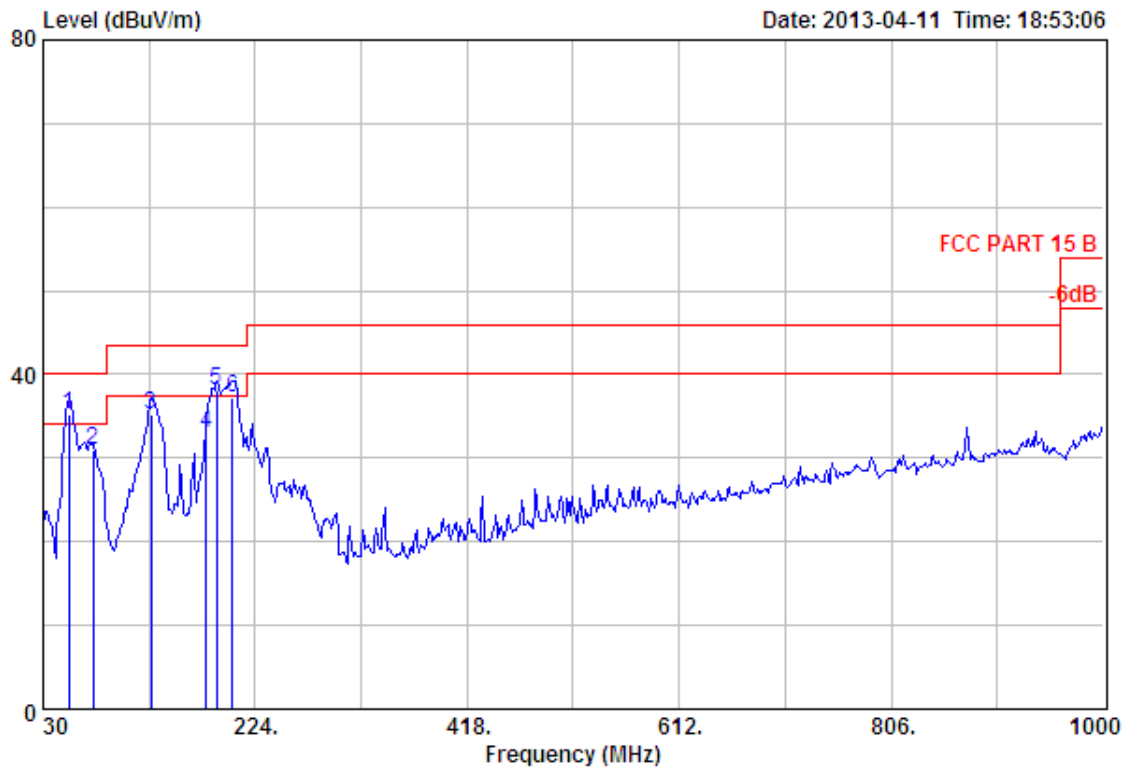
Site no. : 3m Chamber Data no. : 141
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	87.23	7.97	2.96	20.13	31.06	40.00	8.94	QP
2	153.19	10.75	3.81	12.39	26.95	43.50	16.55	QP
3	191.99	7.85	4.22	21.04	33.11	43.50	10.39	QP
4	221.09	9.26	4.45	17.34	31.05	46.00	14.95	QP
5	271.53	12.49	5.02	15.45	32.96	46.00	13.04	QP
6	284.14	12.52	5.12	12.11	29.75	46.00	16.25	QP



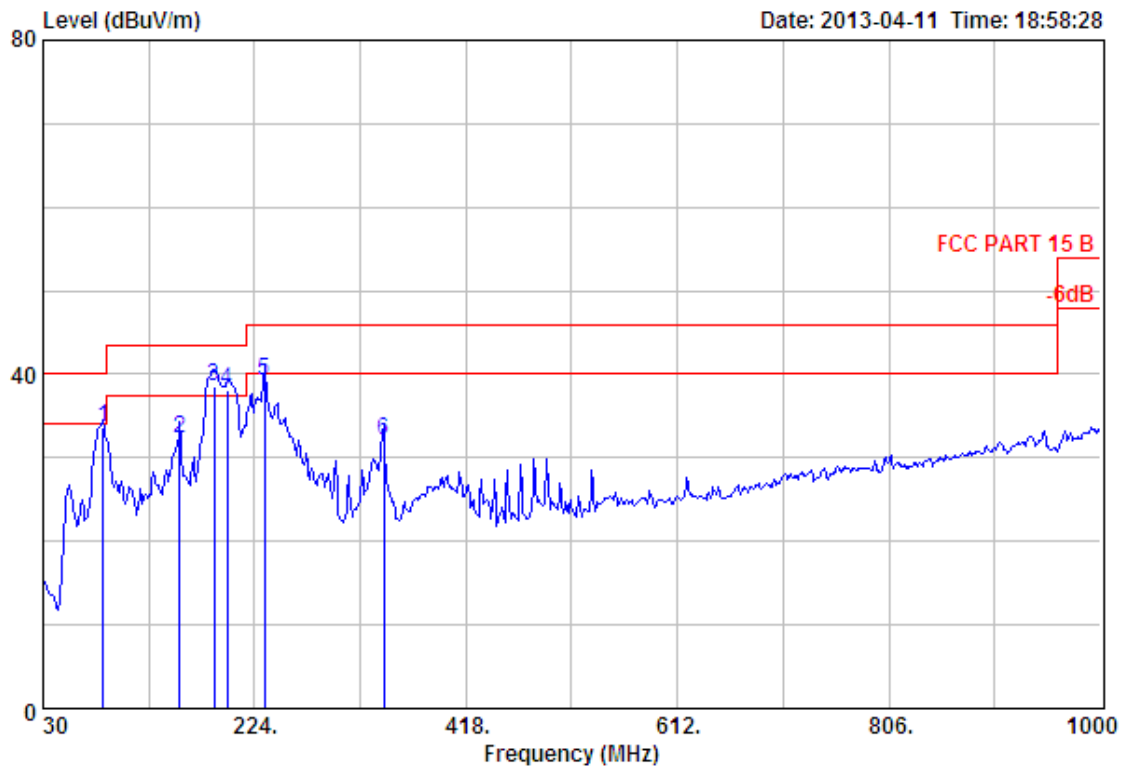
Site no. : 3m Chamber Data no. : 142
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	72.68	6.12	2.83	17.61	26.56	40.00	13.44	QP
2	96.93	8.92	3.03	17.15	29.10	43.50	14.40	QP
3	150.28	10.86	3.78	18.08	32.72	43.50	10.78	QP
4	193.93	7.76	4.21	25.00	36.97	43.50	6.53	QP
5	236.61	9.90	4.64	18.13	32.67	46.00	13.33	QP
6	264.74	12.94	4.97	11.39	29.30	46.00	16.70	QP



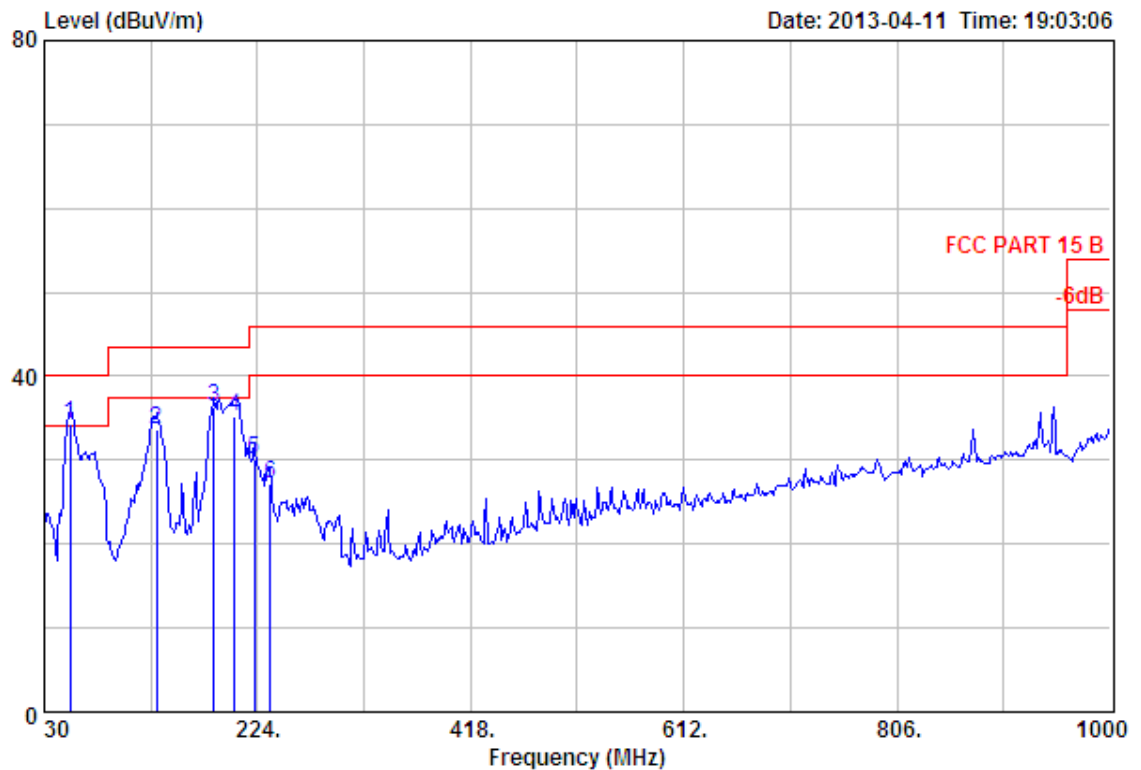
Site no. : 3m Chamber Data no. : 143
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : GFSK TX 2402MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	53.28	6.11	2.43	26.77	35.31	40.00	4.69	QP
2	75.59	6.51	2.80	21.64	30.95	40.00	9.05	QP
3	128.94	11.33	3.48	20.41	35.22	43.50	8.28	QP
4	179.38	8.96	4.11	20.00	33.07	43.50	10.43	QP
5	189.08	8.05	4.20	25.95	38.20	43.50	5.30	QP
6	203.63	7.87	4.29	25.08	37.24	43.50	6.26	QP



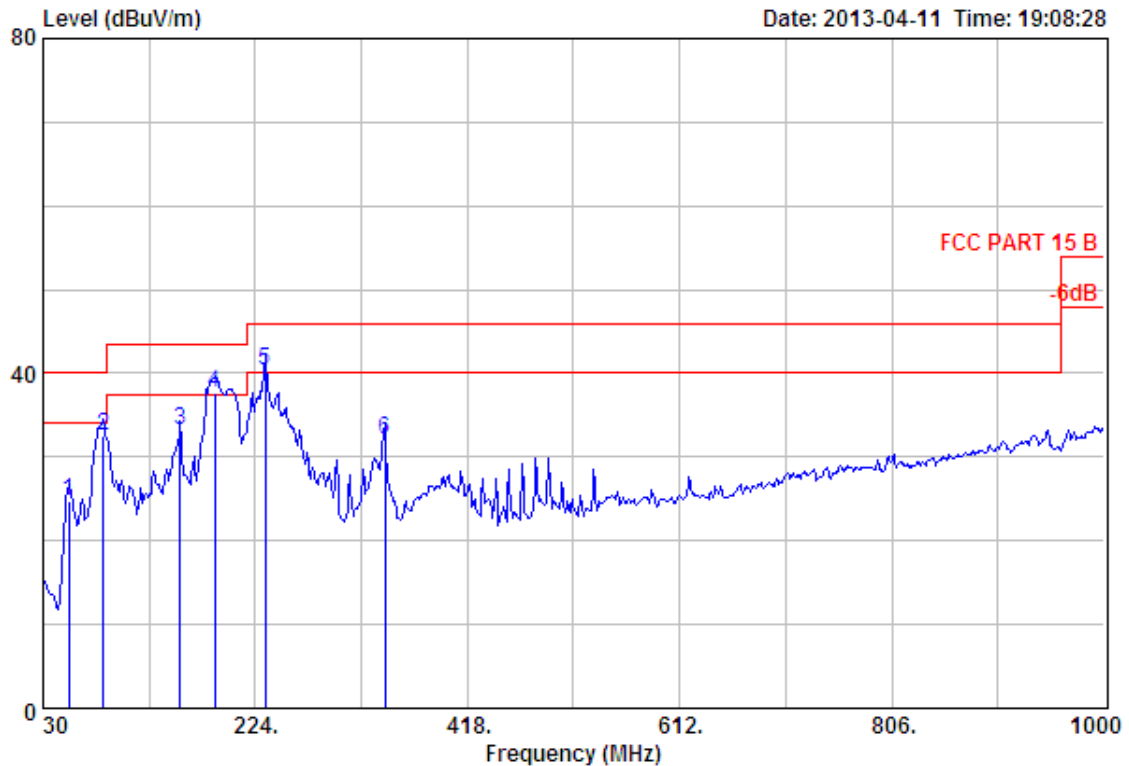
Site no. : 3m Chamber Data no. : 144
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : GFSK TX 2402MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	85.29	7.72	2.87	23.02	33.61	40.00	6.39	QP
2	155.13	10.67	3.82	17.78	32.27	43.50	11.23	QP
3	187.14	8.26	4.19	26.20	38.65	43.50	4.85	QP
4	198.78	7.71	4.24	26.25	38.20	43.50	5.30	QP
5	232.73	9.59	4.59	25.08	39.26	46.00	6.74	QP
6	342.34	14.22	5.62	12.34	32.18	46.00	13.82	QP



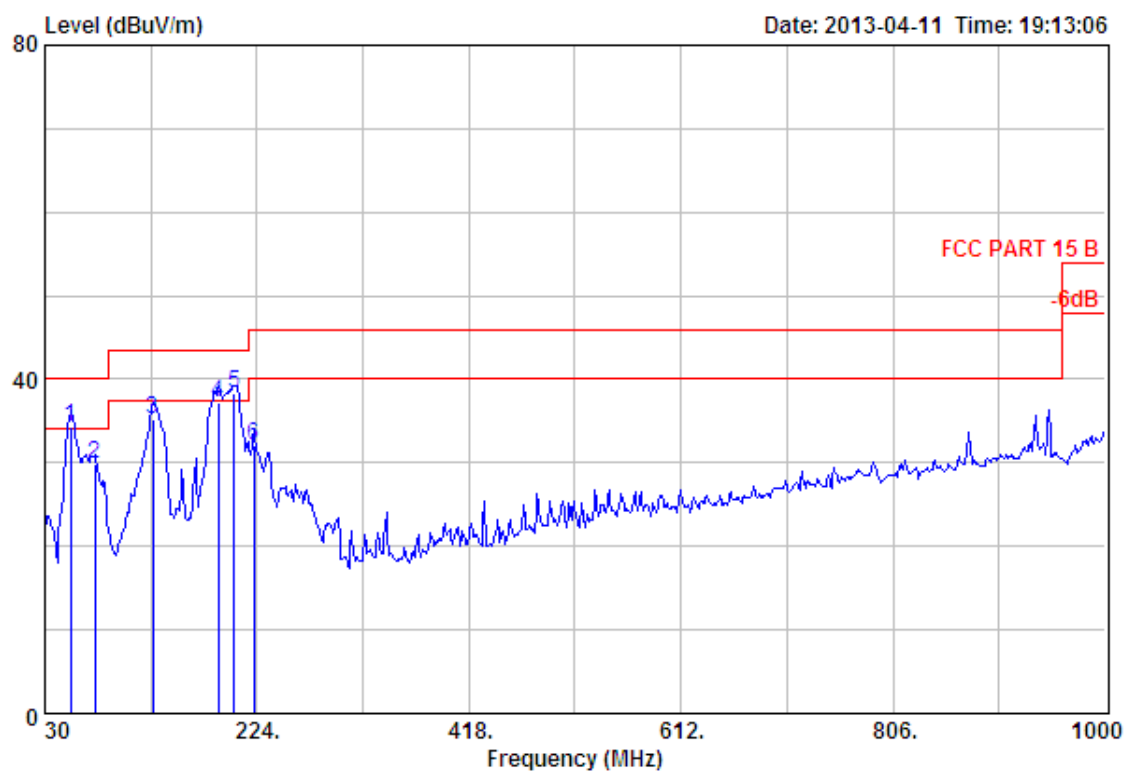
Site no. : 3m Chamber Data no. : 145
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : GFSK TX 2441MHz
 Adapter 2

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Reamark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)
1	53.28	6.11	2.43	25.77	34.31	40.00	5.69	QP
2	131.85	11.34	3.56	18.64	33.54	43.50	9.96	QP
3	184.23	8.57	4.18	23.61	36.36	43.50	7.14	QP
4	203.63	7.87	4.29	23.08	35.24	43.50	8.26	QP
5	221.09	9.26	4.45	16.33	30.04	46.00	15.96	QP
6	235.64	9.80	4.64	12.80	27.24	46.00	18.76	QP



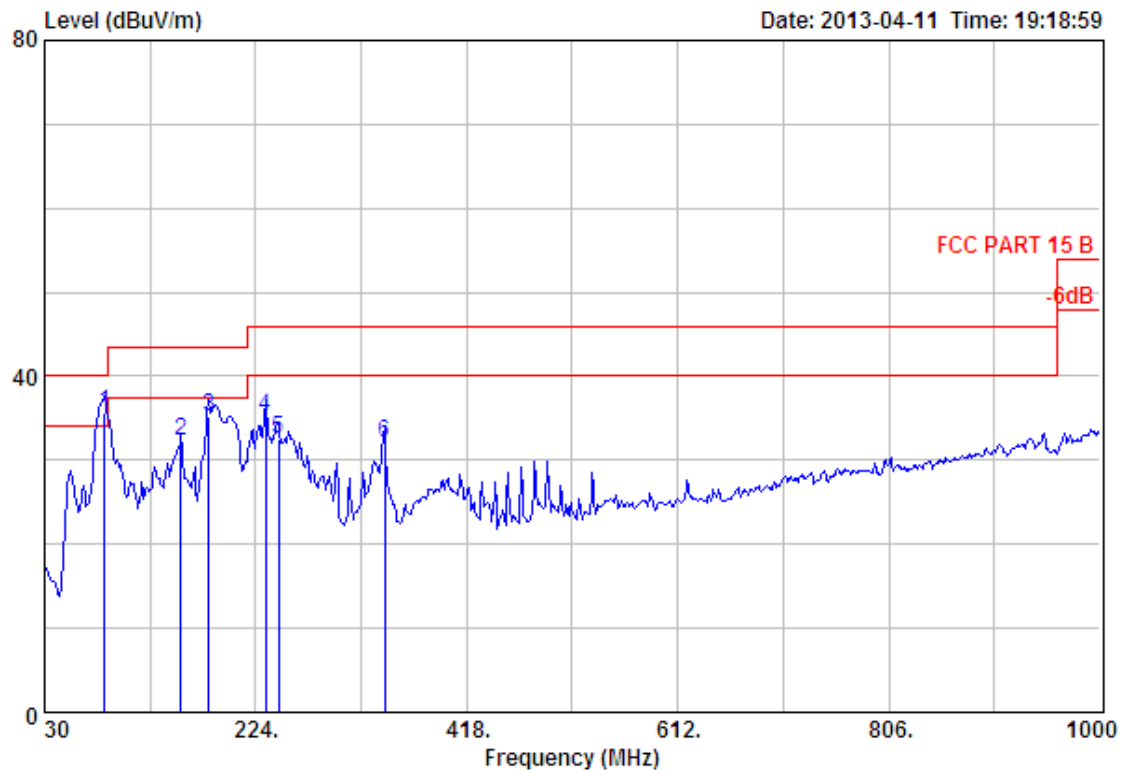
Site no. : 3m Chamber Data no. : 146
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : GFSK TX 2441MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	53.28	6.11	2.43	16.31	24.85	40.00	15.15	QP
2	85.29	7.72	2.87	22.02	32.61	40.00	7.39	QP
3	155.13	10.67	3.82	18.78	33.27	43.50	10.23	QP
4	187.14	8.26	4.19	25.20	37.65	43.50	5.85	QP
5	232.73	9.59	4.59	26.08	40.26	46.00	5.74	QP
6	342.34	14.22	5.62	12.34	32.18	46.00	13.82	QP



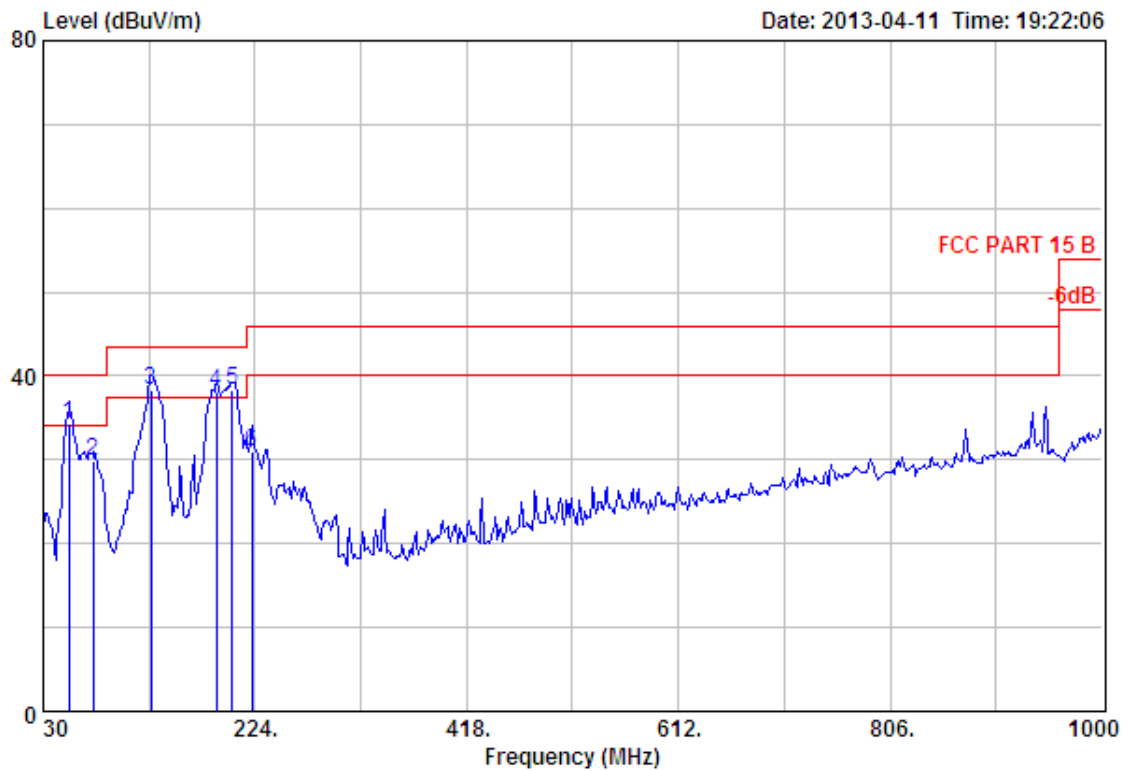
Site no. : 3m Chamber Data no. : 147
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : GFSK TX 2480MHz
 Adapter 2

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)
1	53.28	6.11	2.43	25.77	34.31	40.00	5.69	QP
2	75.59	6.51	2.80	20.64	29.95	40.00	10.05	QP
3	128.94	11.33	3.48	20.41	35.22	43.50	8.28	QP
4	189.08	8.05	4.20	24.95	37.20	43.50	6.30	QP
5	203.63	7.87	4.29	26.08	38.24	43.50	5.26	QP
6	221.09	9.26	4.45	18.33	32.04	46.00	13.96	QP



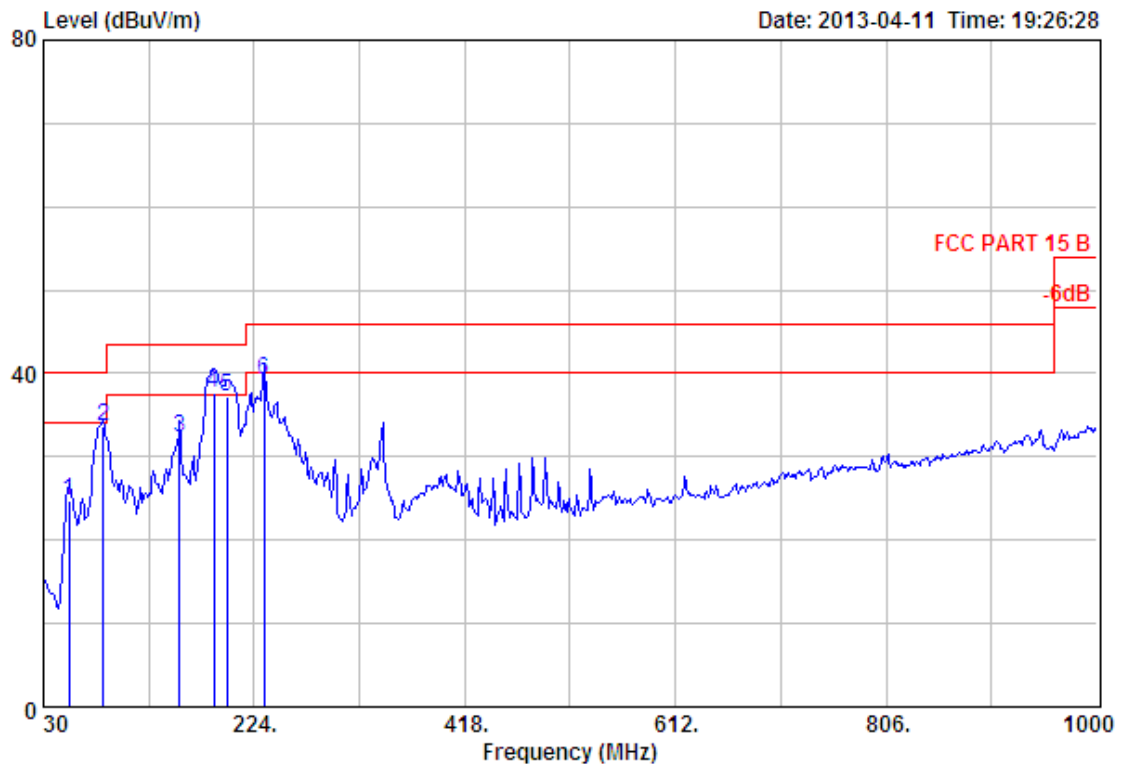
Site no. : 3m Chamber Data no. : 148
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : GFSK TX 2480MHz
 Adapter 2

	Freq.	Ant.	Cable		Emission				
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Reamark	
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	
1	85.29	7.72	2.87	25.02	35.61	40.00	4.39	QP	
2	155.13	10.67	3.82	17.78	32.27	43.50	11.23	QP	
3	181.32	8.86	4.14	22.15	35.15	43.50	8.35	QP	
4	232.73	9.59	4.59	21.08	35.26	46.00	10.74	QP	
5	245.34	11.06	4.77	16.74	32.57	46.00	13.43	QP	
6	342.34	14.22	5.62	12.34	32.18	46.00	13.82	QP	



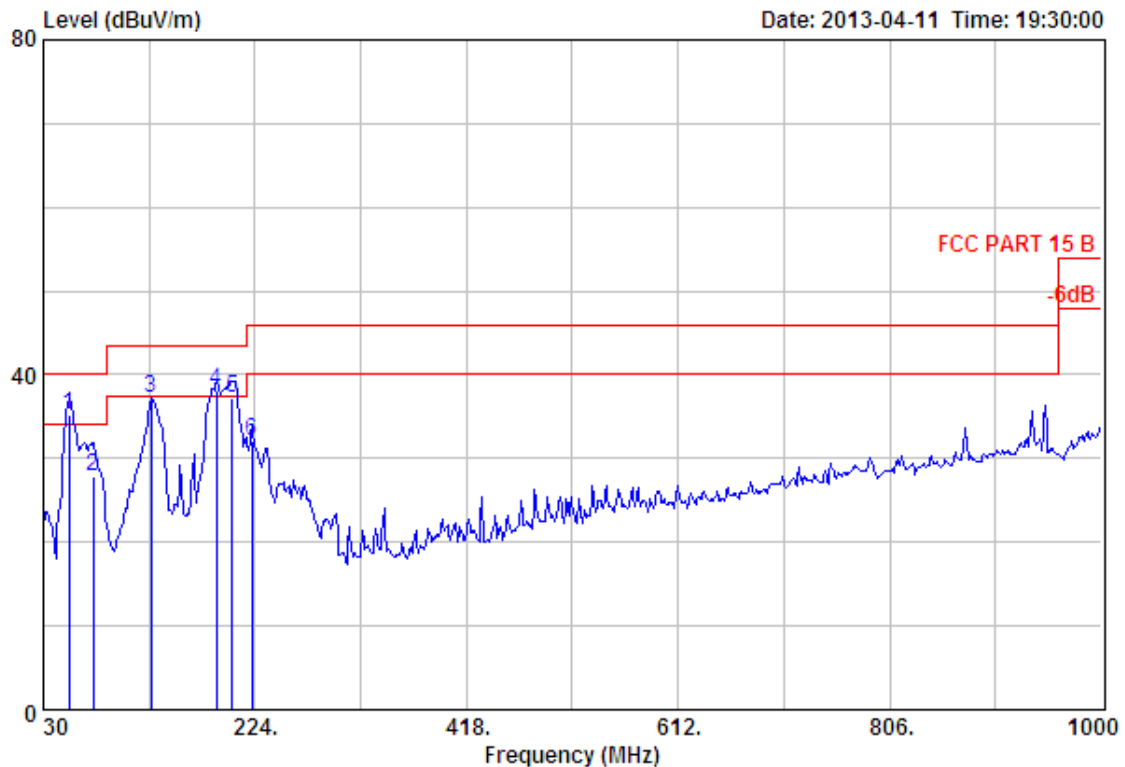
Site no. : 3m Chamber Data no. : 149
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)		
1	53.28	6.11	2.43	25.77	34.31	40.00	5.69	QP
2	75.59	6.51	2.80	20.64	29.95	40.00	10.05	QP
3	128.94	11.33	3.48	23.41	38.22	43.50	5.28	QP
4	189.08	8.05	4.20	25.95	38.20	43.50	5.30	QP
5	203.63	7.87	4.29	26.08	38.24	43.50	5.26	QP
6	221.09	9.26	4.45	17.33	31.04	46.00	14.96	QP



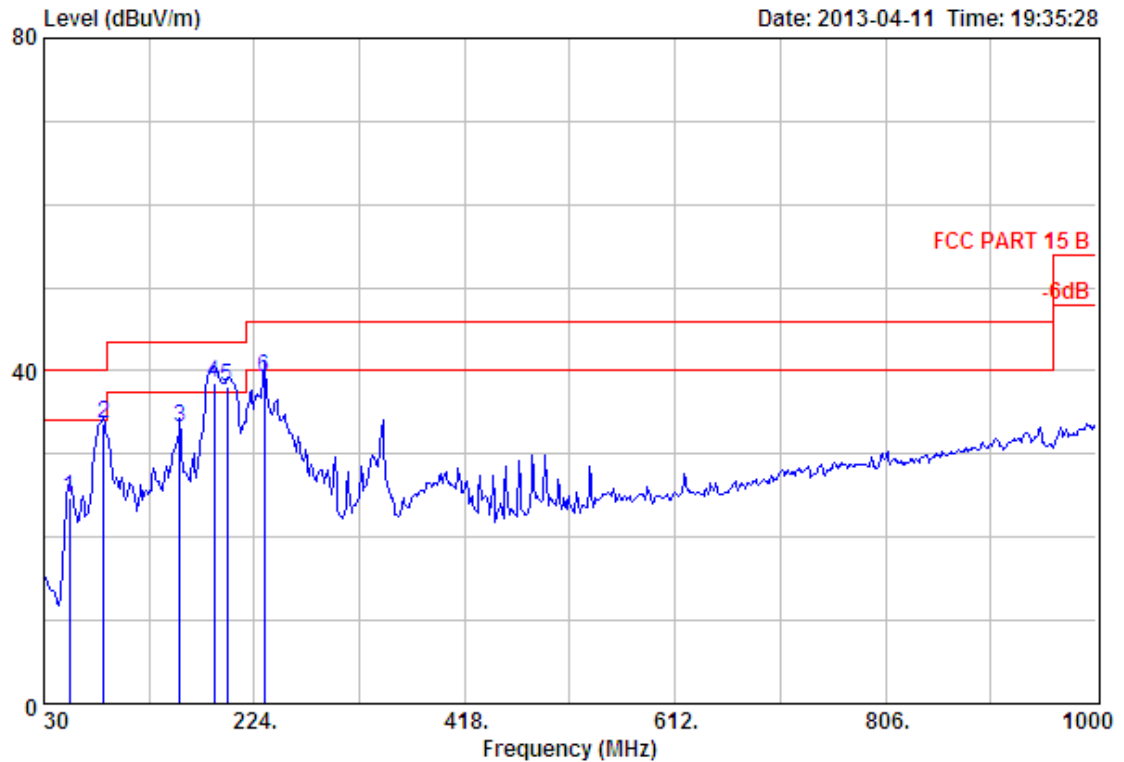
Site no. : 3m Chamber Data no. : 150
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 2

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)
1	53.28	6.11	2.43	16.31	24.85	40.00	15.15	QP
2	85.29	7.72	2.87	23.02	33.61	40.00	6.39	QP
3	155.13	10.67	3.82	17.78	32.27	43.50	11.23	QP
4	187.14	8.26	4.19	25.20	37.65	43.50	5.85	QP
5	198.78	7.71	4.24	25.25	37.20	43.50	6.30	QP
6	232.73	9.59	4.59	25.08	39.26	46.00	6.74	QP



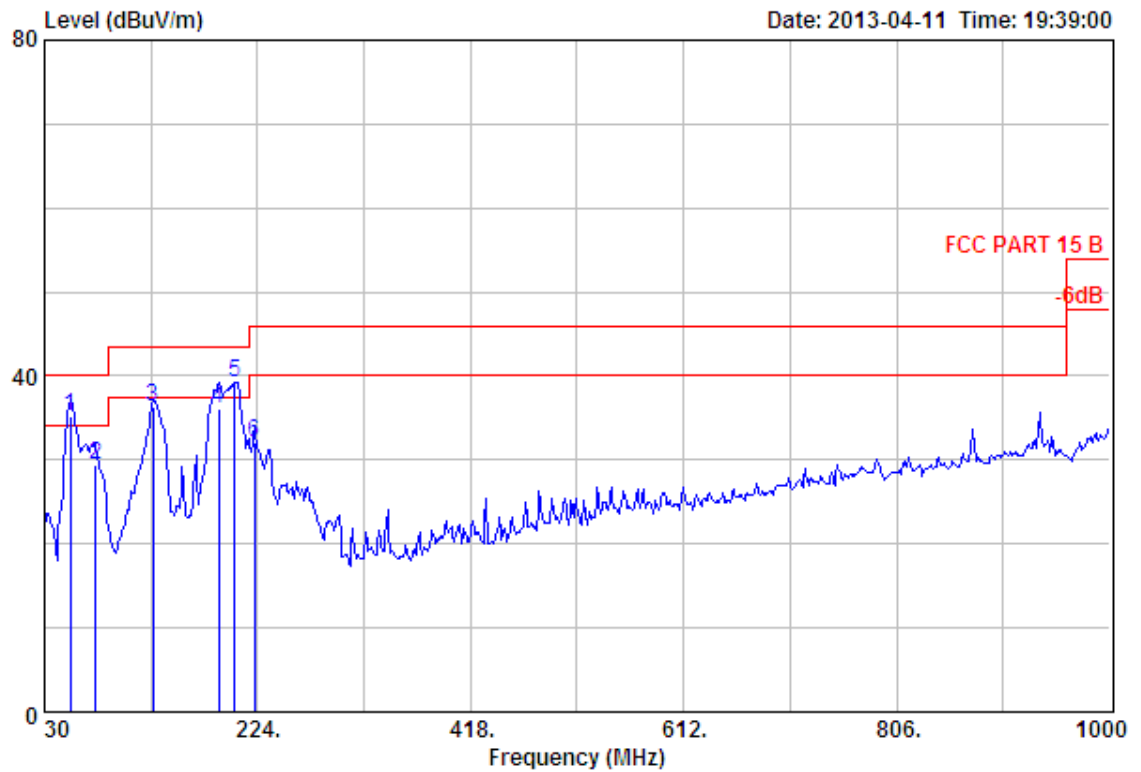
Site no. : 3m Chamber Data no. : 151
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : 8-DPSK TX 2441MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)		
1	53.28	6.11	2.43	26.77	35.31	40.00	4.69	QP
2	75.59	6.51	2.80	18.64	27.95	40.00	12.05	QP
3	128.94	11.33	3.48	22.41	37.22	43.50	6.28	QP
4	189.08	8.05	4.20	25.95	38.20	43.50	5.30	QP
5	203.63	7.87	4.29	25.08	37.24	43.50	6.26	QP
6	221.09	9.26	4.45	18.33	32.04	46.00	13.96	QP



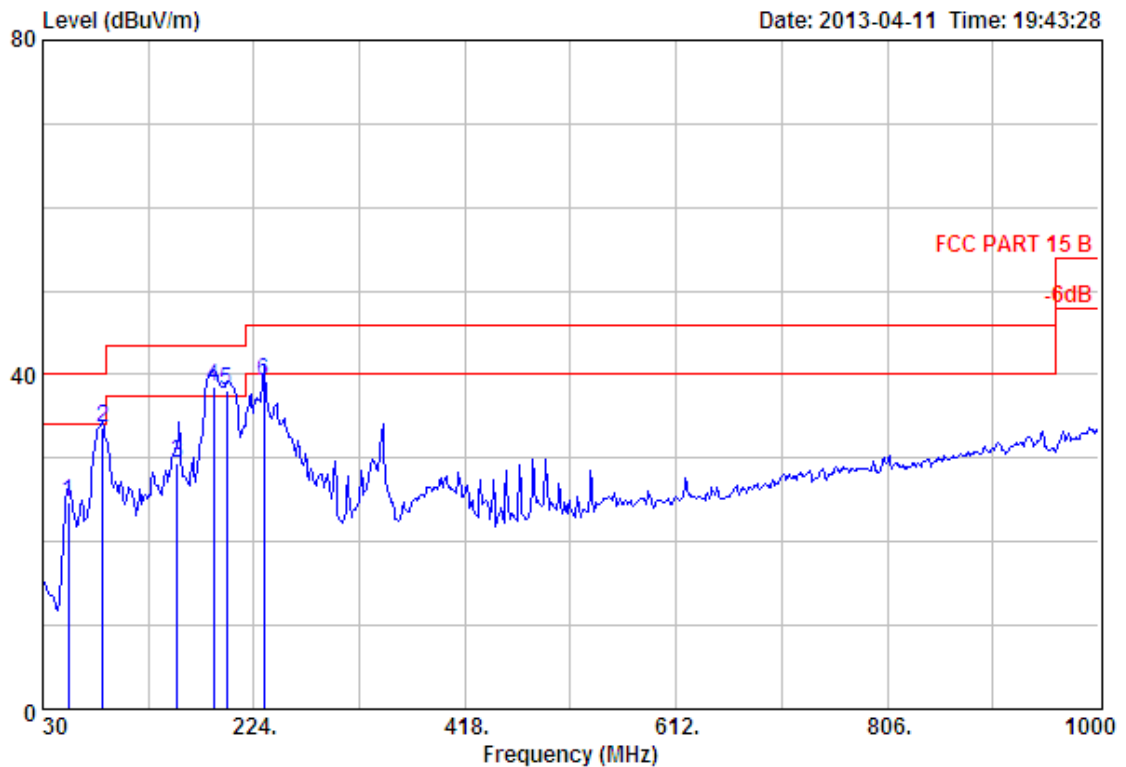
Site no. : 3m Chamber Data no. : 152
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : 8-DPSK TX 2441MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	53.28	6.11	2.43	16.31	24.85	40.00	15.15	QP
2	85.29	7.72	2.87	23.02	33.61	40.00	6.39	QP
3	155.13	10.67	3.82	18.78	33.27	43.50	10.23	QP
4	187.14	8.26	4.19	26.20	38.65	43.50	4.85	QP
5	198.78	7.71	4.24	26.25	38.20	43.50	5.30	QP
6	232.73	9.59	4.59	25.08	39.26	46.00	6.74	QP



Site no. : 3m Chamber Data no. : 153
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	53.28	6.11	2.43	26.77	35.31	40.00	4.69	QP
2	76.56	6.66	2.82	19.89	29.37	40.00	10.63	QP
3	128.94	11.33	3.48	21.41	36.22	43.50	7.28	QP
4	189.08	8.05	4.20	23.95	36.20	43.50	7.30	QP
5	203.63	7.87	4.29	27.08	39.24	43.50	4.26	QP
6	221.09	9.26	4.45	18.33	32.04	46.00	13.96	QP



Site no. : 3m Chamber Data no. : 154
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Dick
 EUT : Bluetooth clock radio
 Power : DC 7.5V From Adapter Input AC 120V/60Hz
 M/N : HX-B710
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	53.28	6.11	2.43	16.31	24.85	40.00	15.15	QP
2	85.29	7.72	2.87	23.02	33.61	40.00	6.39	QP
3	153.19	10.75	3.81	14.91	29.47	43.50	14.03	QP
4	187.14	8.26	4.19	26.20	38.65	43.50	4.85	QP
5	198.78	7.71	4.24	26.25	38.20	43.50	5.30	QP
6	232.73	9.59	4.59	25.08	39.26	46.00	6.74	QP