FCC COMPLIANCE REPORT

for

President Industry Development(Shenzhen)Co.Ltd

Bluetooth Stereo Headset

Model Number: KB37S_BT100

Prepared for : President Industry Development(Shenzhen)Co.Ltd
Address : West side of Bulong Road,Shangtang Village, Longhua, ShenZhen.

Prepared By : NS Technology Co., Ltd.
Address : Chenwu Industrial Zone, Houjie Town, Dongguan City, Guangdong, China

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Report Number : NSE-F08052119
Date of Test : May 14, 2008
Date of Report : May 21, 2008

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NS Technology Co., Ltd.

Applicant: **Address:**	President Industry Development(Shenzhen)Co.Ltd West side of Bulong Road,Shangtang Village, Longhua, ShenZhen.		
Manufacturer: **Address:**	President Industry Development(Shenzhen)Co.Ltd West side of Bulong Road,Shangtang Village, Longhua, ShenZhen.		
E.U.T:	Bluetooth Stereo Headset		
Model Number:	KB37S_BT100		
Trade Name:	------	**Operating Frequency:**	2402MHz~2480MHz
Date of Receipt:	May 8, 2008	**Date of Test:**	May 14, 2008
Test Specification:	FCC Part 15 Subpart C: Sep. 20, 2007 ANSI C63.4:2003 DA 00-705		
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.		

Issue Date: May 21,2008

Tested by:	Reviewed by:	Approved by:
Jacky / Engineer	Iceman Hu / Supervisor	Steven Lee / Manager

Other Aspects:

None.

Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Details please refer to Technical Construction Form and User Manual.

1.2. Description of Device (EUT)

E.U.T.	:	Bluetooth Stereo Headset
Model No.	:	KB37S_BT100
Operating Frequency	:	2400MHz to 2483.5MHz
Number of Channels	:	79 Channels
Channel Separation	:	1MHz
Type of Modulation	:	FHSS(Frequency Hopping Spread Spectrum);
Dwell time	:	Each channel is less than 0.4S.
Antenna Type	:	Integral
System Input Voltage	:	Nominal Voltage: DC 5V(PC input AC 120V/60Hz)
Temperature Range(Operating)	:	+15 ~+ 35℃

1.3. Difference between Model Numbers

All model numbers use identical circuit and PCB layout. Only the colour are different.

1.4. Independent Operation Modes

The basic operation modes are:

Channel No.	Operation Frequency(MHz)	Channel No.	Operation frequency(MHz)
CH1	2402	CH41	2442
CH2	2403	CH42	2443
CH3	2404	CH43	2444
CH4	2405	CH44	2445
CH5	2406	CH45	2446
CH6	2407	CH46	2447
CH7	2408	CH47	2448
CH8	2409	CH48	2449
CH9	2410	CH49	2450
CH10	2411	CH50	2451
CH11	2412	CH51	2452
CH12	2413	CH52	2453
CH13	2414	CH53	2454
CH14	2415	CH54	2455
CH15	2416	CH55	2456
CH16	2417	CH56	2457
CH17	2418	CH57	2458
CH18	2419	CH58	2459
CH19	2420	CH59	2460
CH20	2421	CH60	2461
CH21	2422	CH61	2462
CH22	2423	CH62	2463
CH23	2424	CH63	2464

CH24	2425	CH64	2465
CH25	2426	CH65	2466
CH26	2427	CH66	2467
CH27	2428	CH67	2468
CH28	2429	CH68	2469
CH29	2430	CH69	2470
CH30	2431	CH70	2471
CH31	2432	CH71	2472
CH32	2433	CH72	2473
CH33	2434	CH73	2474
CH34	2435	CH74	2475
CH35	2436	CH75	2476
CH36	2437	CH76	2477
CH37	2438	CH77	2478
CH38	2439	CH78	2479
CH39	2440	CH79	2480
CH40	2441		

The tested modes are:

1.4.1. CH1 (2402MHz),

1.4.2. CH40 (2441MHz),

1.4.3. CH79 (2480MHz)

2. TEST SITES

2.1. Test Facilities

EMC Lab : Certificated by TUV Rheinland, Germany.
Date of registration: July 28, 2003

Certificated by FCC, USA
Registration No.: 897109
Date of registration: October 10, 2003

Certificated by VCCI, Japan
Registration No.: R-1798 & C-1926
Date of registration: January 30, 2004

Certificated by CNAL, CHINA
Registration No.: L1744
Date of registration: November 25, 2004

Certificated by Intertek ETL SEMKO
Registration No.: TMP-013
Date of registration: June 11, 2005

Certificated by TUV/PS, Hong Kong
Date of registration: December 1, 2005

Certificated by Industry Canada
Registration No.: 5936
Date of registration: March 24, 2006

Certificated by ATCB, America
Date of registration: August 03, 2006

Name of Firm : NS Technology Co., Ltd.

Site Location : Chenwu Industrial Zone, Houjie Town, Dongguan City, Guangdong, China

2.2. List of Test and Measurement Instruments

2.2.1. For maximum conducted output power test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	Agilent	E4416A	MY45100656	Mar.20,08	Mar.20,09
Power Sensor	Agilent	E9327A	MY44420694	Mar.20,08	Mar.20,09

2.2.2. For occupied bandwidth test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	R/S	ESPI	1142.8007.03	Mar.20,08	Mar.20,09

2.2.3. For dwell time test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	R/S	ESPI	1142.8007.03	Mar.20,08	Mar.20,09

2.2.4. For adjacent channel separation test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	R/S	ESPI	1142.8007.03	Mar.20,08	Mar.20,09

2.2.5. For channel number test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	R/S	ESPI	1142.8007.03	Mar.20,08	Mar.20,09

2.2.6. For Radiation Emission Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Test Receiver	Rohde & Schwarz	ESCS30	100199	Mar.20,08	Mar.20,09
Spectrum Analyzer	HP	8593E	3448U00806	Mar.20,08	Mar.20,09
Amplifier	Agilent	8447D	2944A10488	May 2,08	May 2,09
Signal Generator	HP	8648A	3426A01263	Apr.8,08	Apr.8,09
Bilog Antenna	EMCO	3142B	00022050	May 2,08	May 2,09
Horn Antenna	EMCO	3117	00062558	May 2,08	May 2,09

2.2.7. For band edge test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	R/S	ESPI	1142.8007.03	Mar.20,08	Mar.20,09

2.2.8. For Conducted Emission test

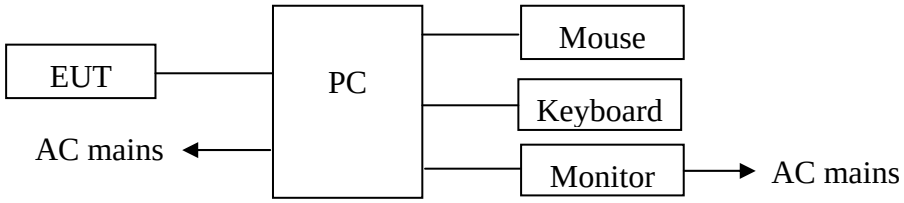
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4407B	MY41440292	Mar.20,08	Mar.20,09

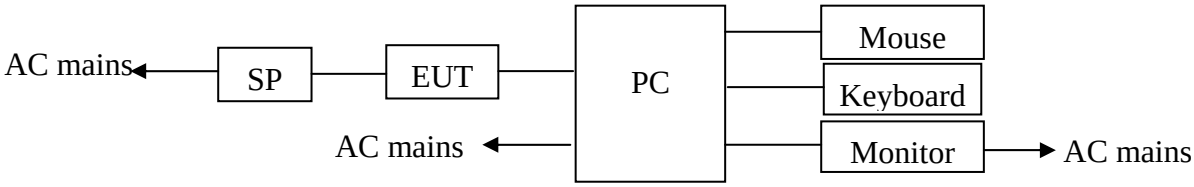
3. TEST SET-UP AND OPERATION MODES

3.1. Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its highest possible radiated level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2. Block Diagram of Test Set-up





(EUT: Bluetooth Stereo Headset)

3.3. Test Operation Mode and Test Software

Refer to clause 1.4

3.4. Special Accessories and Auxiliary Equipment

None.

3.5. Countermeasures to Achieve EMC Compliance

None.

4. TEST SUMMARY

Test items and result lists

No.	Item	Specification	Remarks	Results
1	Conducted emission	FCC Part15.207	--	N/A
2	20dB Bandwidth	FCC Part15.247(a)(1) DA 00-705	Conducted	PASS
3	Number of Hopping Frequency	FCC Part15.247(a)(1)(iii) DA 00-705	Conducted	PASS
4	Dwell time	FCC Part15.247(a)(1)(iii) DA 00-705	Conducted	PASS
5	Band Edge	FCC Part 15.247(c) DA 00-705	Conducted	PASS
6	Maximum Peak Output Power	FCC Part 15.247(b)(1) DA 00-705	Conducted	PASS
7	Transmitter Spurious Emission	FCC Part 15.247(c) DA 00-705	Radiated Conducted	PASS
8	Carrier Frequency Separation	FCC Part 15.247(a)(1) DA 00-705	Conducted	PASS

Note : N/A stand for not applicable.

4.1. Maximum Peak Conducted Output Power

4.1.1. Test limits

The maximum peak conducted output power shall less than 125mW

4.1.2. Test procedure

1.Ensure the spectrum analyzer is calibrated and during a valid calibration.

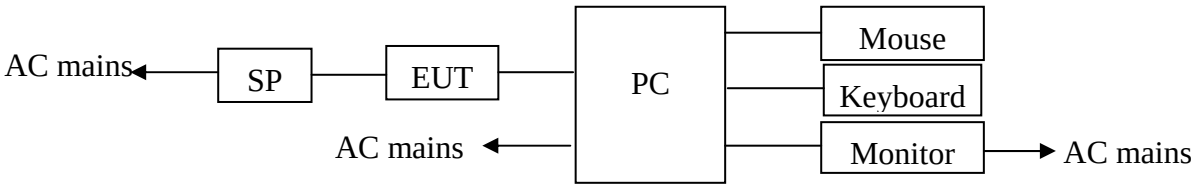
2.The EUT was placed on a turntable which is 0.8m above ground plane.

3.Connect EUT RF output port to the Power meter through an RF attenuator.

4. Set the EUT work on the CH1, CH40,CH79 individually.

5. record maximum peak conducted output power.

4.1.3. Test setup diagram



4.1.4. Test result

Test condition: Temp:24.3℃ ; Humi:55% Test voltage: DC 5V

frequency MHz	Reading dBm	Cable loss dB	Result (dBm)	Limit dBm	Margin dBm
2402	-3.10	0.63	-2.47	20.97	18.50
2441	-2.05	0.57	-1.48	20.97	19.49
2480	-0.39	0.68	0.29	20.97	21.26

Note: Transmitter Effective Isotropic radiated power =SA +cable loss+Ant gain

4.2. 20dB Occupied Bandwidth

4.2.1. Test limits

No requirement.

4.2.2. Test procedure

1. The EUT was placed on a turntable which is 0.8m above ground plane.

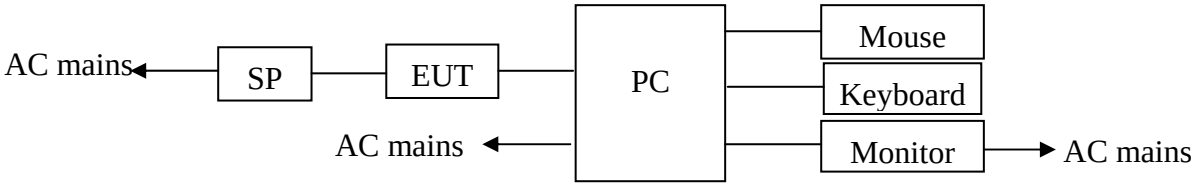
2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.

2. Set the EUT work on the CH1, CH40,CH79 individually.

3. Set SA Center Frequency = Operation frequency, RBW=30kHz,VBW=30kHz.

4. Set SA trace max hold, then view.

4.2.3. Test setup diagram

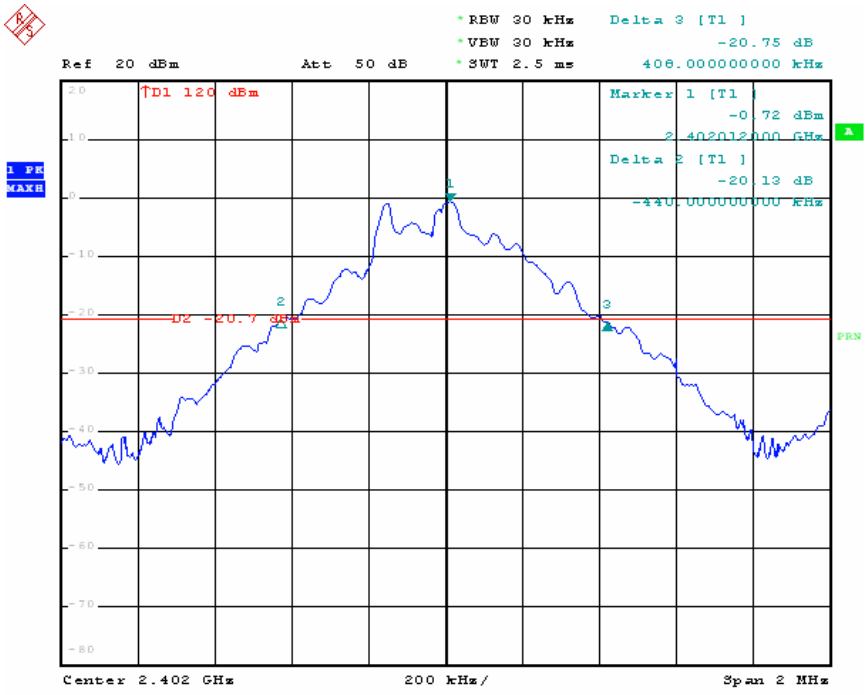


4.2.4. Test result

Pass

Test Channel	Frequency MHz	20dB Occupied bandwidth KHz
CH1	2402	876.00
CH40	2441	872.00
CH79	2480	868.00

Test CH1:2402MHz



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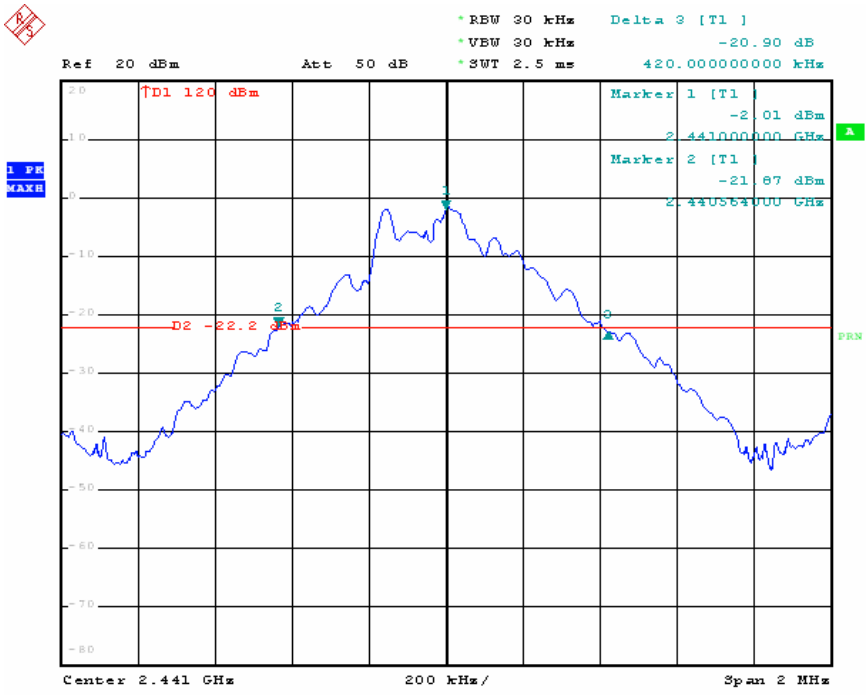
Test CH40:2441MHz



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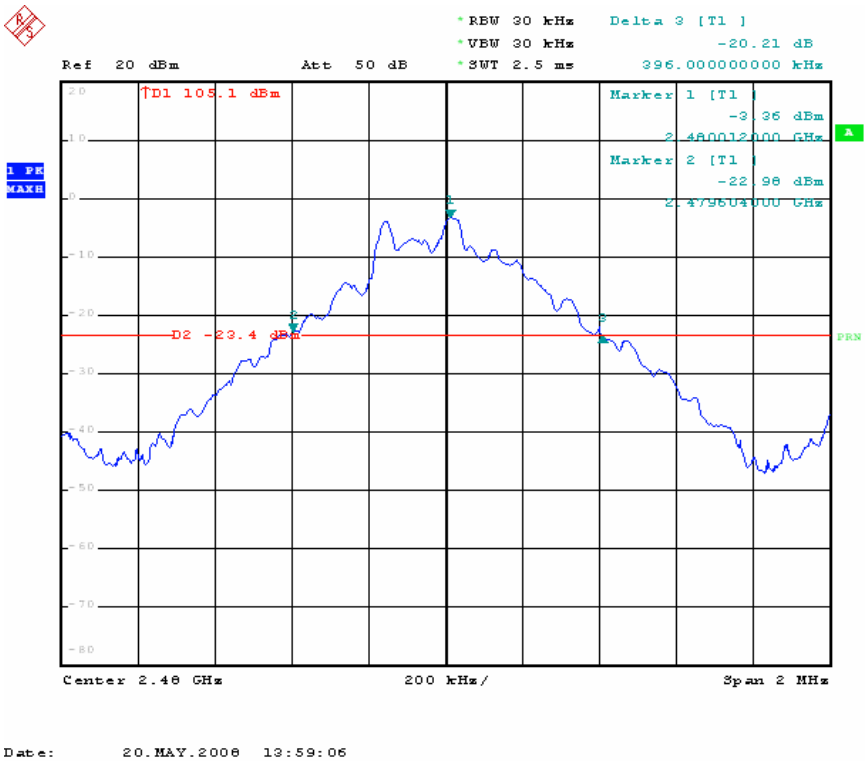
Test CH79:2480MHz



4.3. Dwell Time

4.3.1. Limit

The maximum dwell time shall be 0.4s within a period of 0.4 seconds multiplied by the number of hopping channels employed..

4.3.2. Test procedure

1. The EUT was placed on a turntable which is 0.8m above ground plane.
2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
3. Set the EUT work on the CH1, CH40,CH79 individually.
4. Set SP Center Frequency = Operation frequency, RBW:1KHz; VBW:3KHz; Sweep time:5s, SPAN:0Hz
5. Set SP trace max hold, then view.

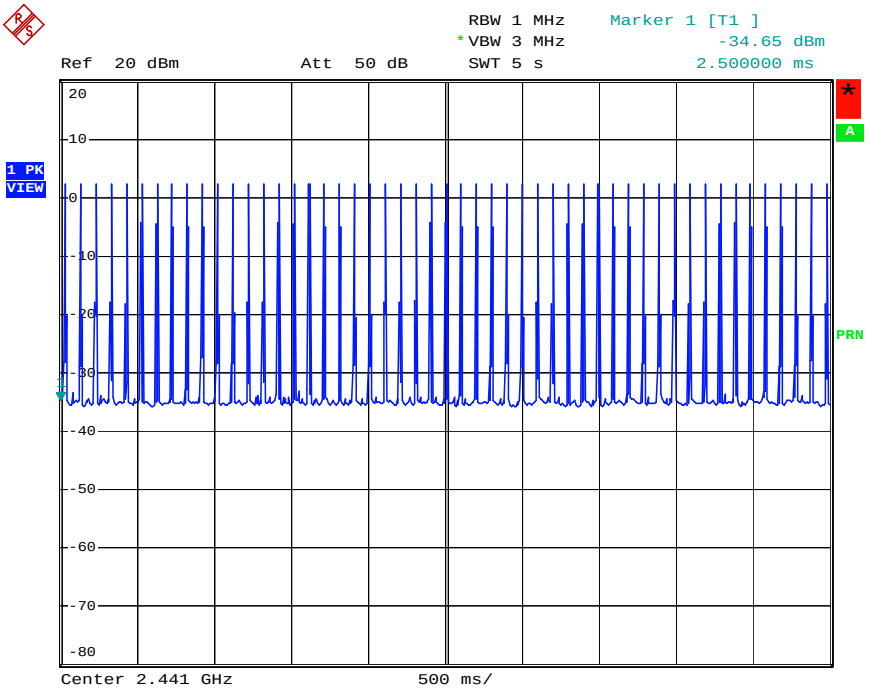
4.3.3. Test result

Test Type	Numbers of emission in 31.6s(79*0.4s)	Single transmission time(ms)	Total transmission time in 31.6s(79*0.4s)	Limit	result
DH1	50/5*31.6	0.446	140.936ms	400ms	pass
DH3	25/5*31.6	1.136	179.488ms	400ms	pass
DH5	17/5*31.6	2.960	318.022ms	400ms	pass

The dwell time is lesser than 0.4s within a period of 0.4 seconds multiplied by the number of hopping channels employed. comply with the standard requirement.

The test plots as following:

DH1:



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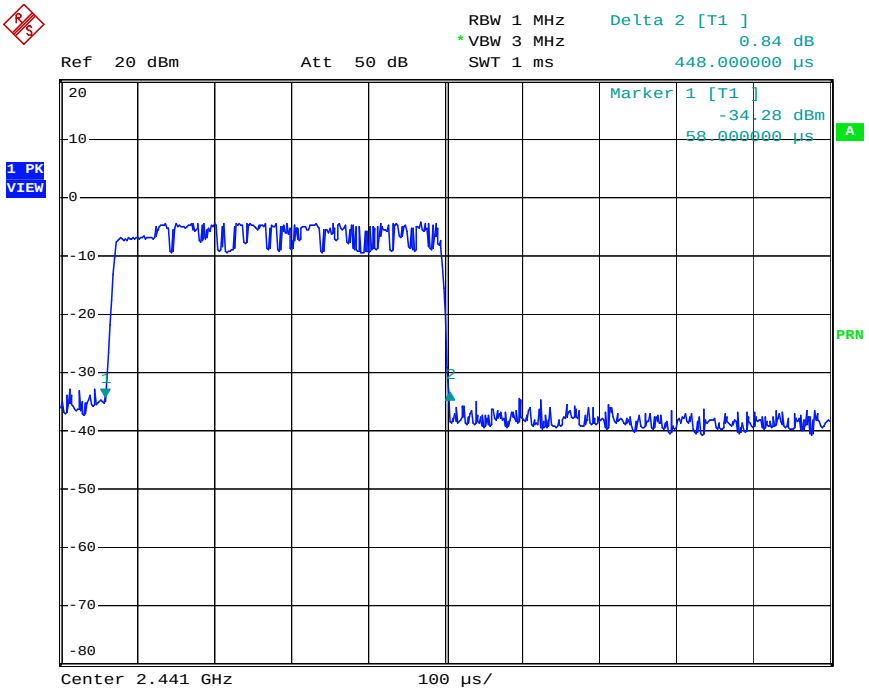

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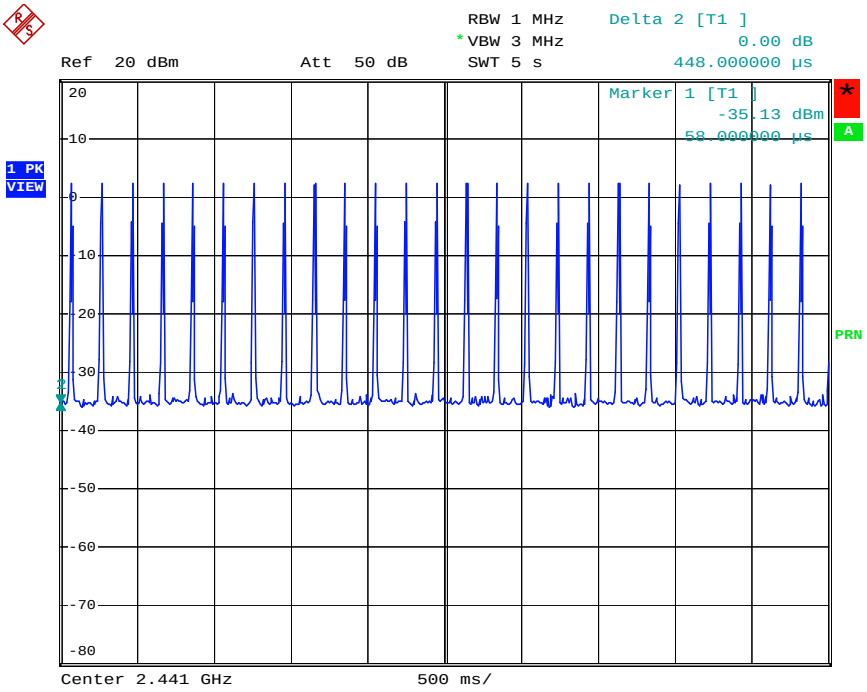
DH3:



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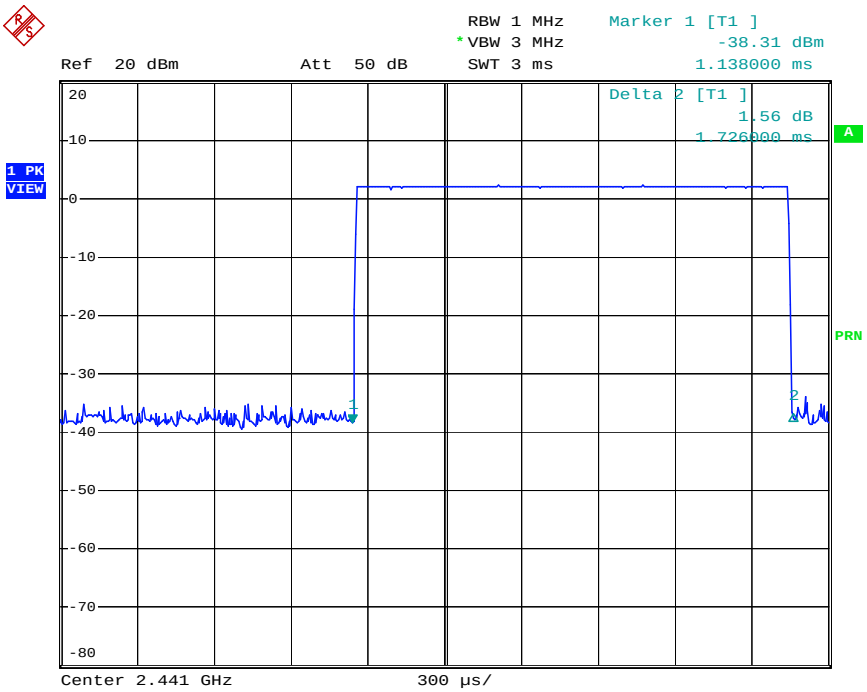

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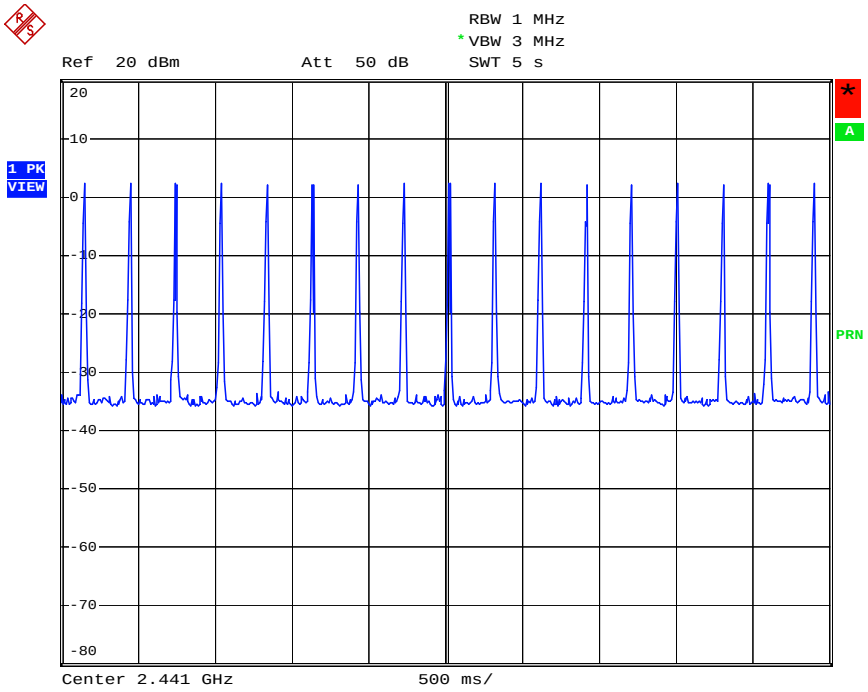
DH5:



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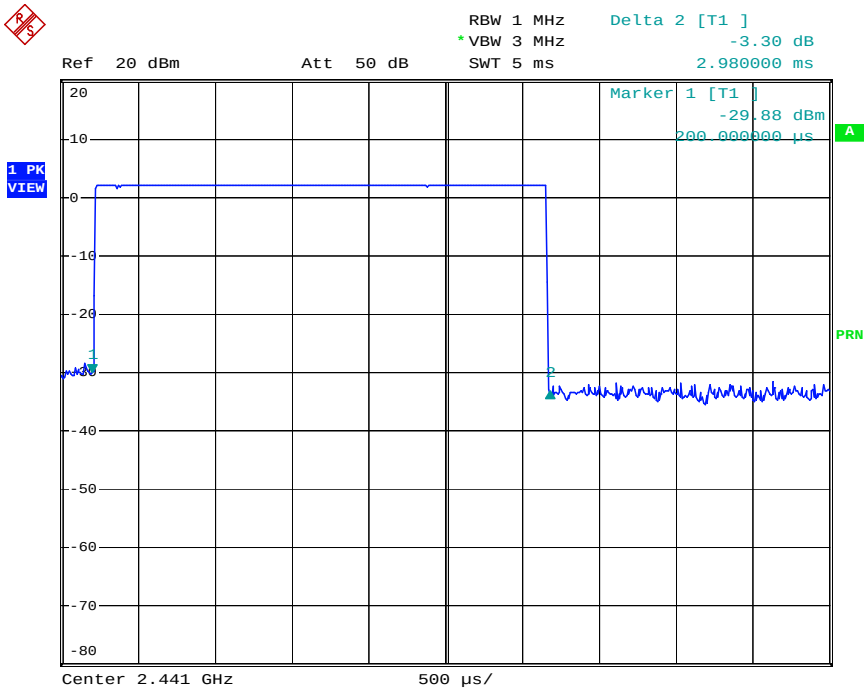

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4.4. Adjacent Channel Separation

4.4.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20dB bandwidth of the hoping channel. whichever is greater.

4.4.2. Test procedure

Test was performed at normal test condition and test in the lowest frequency and the middle frequency and the highest frequency.

RBW:100kHz; VBW:300kHz; Sweep time:2.5ms;

4.4.3. Test result

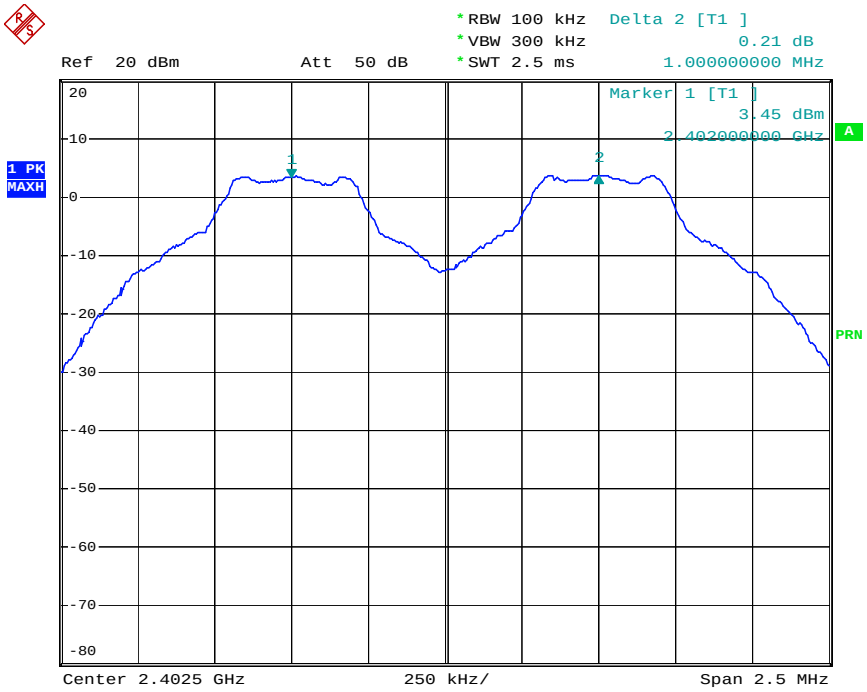
Pass.

Test condition: Temp:25℃ ; Humi:55% Test voltage: DC 5V

Test Channel MHz	test frequency MHz	Two Adjacent Channel spacing MHz	Limit kHz
CH1	2402	1.000	≧20dB bandwidth
CH2	2403		
CH39	2439	1.000	
CH40	2440		
CH78	2479	1.000	
CH79	2480		

The two adjacent channel spacing is greater than 20dB bandwidth. comply with standard requirement. The test plots as following:

Test DH1:2402MHz



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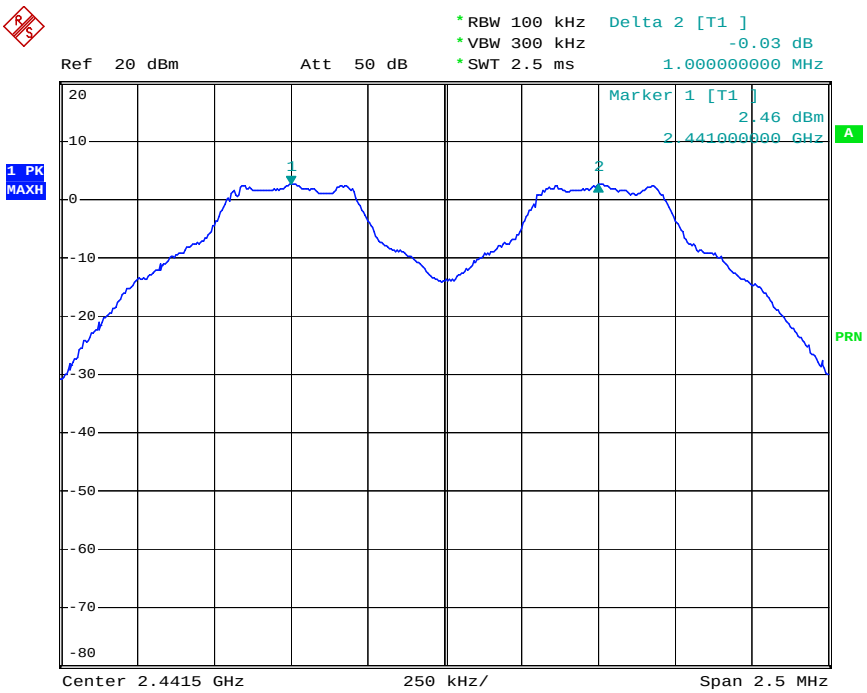
Test CH40:2441MHz



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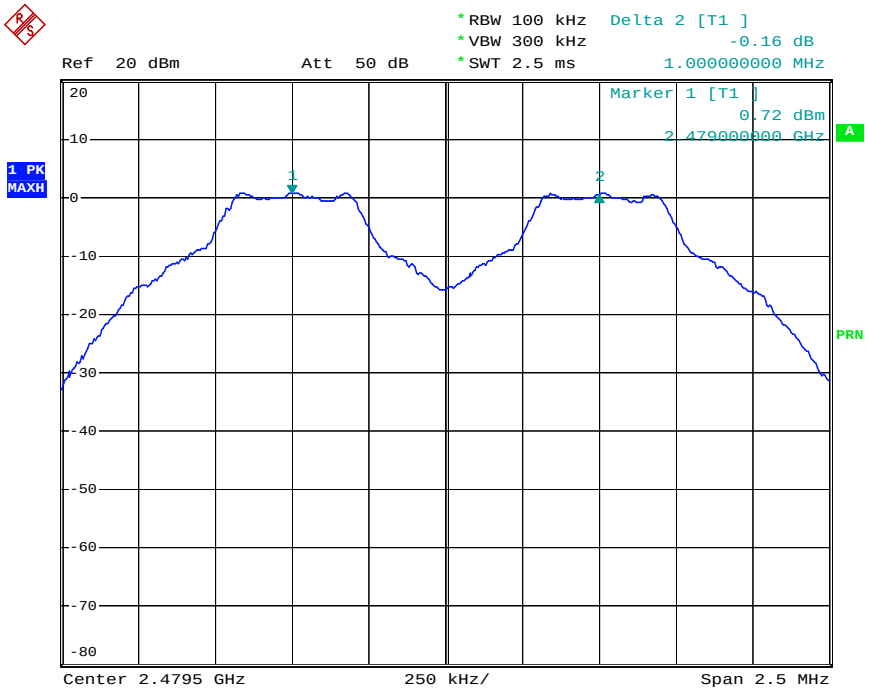
Test CH79:2480MHz



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4.5. Channel Number

4.5.1. Limit

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

4.5.2. Test procedure

Test was performed at normal test condition

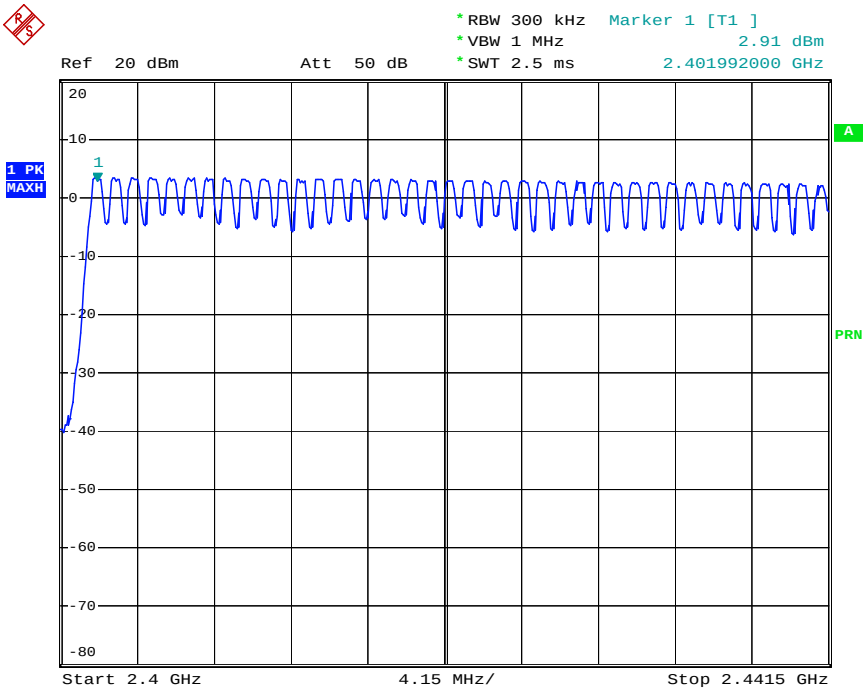
RBW:300kHz; VBW:1MHz; Sweep time: 2.5ms;

4.5.3. Test result

Total channel numbers are 79 .compliance with standard requirement.

The test plots as following:

Test Plot 1



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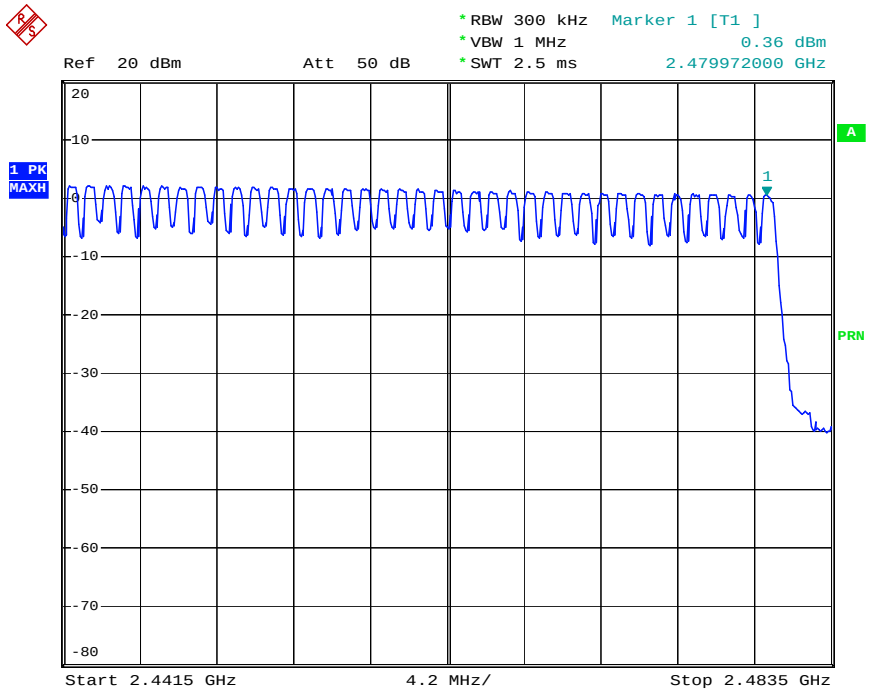
Test Plot 2



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4.6. Radiated Emission

4.6.1. Test limits

1) FCC part 15C section 15.209
2) FCC part 15C section 15.247(d)

4.6.2. Test procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 30MHz to 1GHz,The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations. The broadband antenna (calibrated by dipole antenna) was used as a receiving antenna. At the frequency band of 1GHz to 25GHz,The measuring antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was used as a receiving antenna.

The resolution bandwidth and video bandwidth of the test receiver was 120 KHz and 300KHz for Quasi-peak detection at frequency below 1GHz.

The resolution bandwidth and video bandwidth of the test receiver was1MHz and 1MHz for Peak detection at frequency above 1GHz.

For Average measurement at frequency above 1GHz.The resolution bandwidth of the test receiver was 1MHz ; due to the shortest pulse width T is 116us, according the video bandwidth should not smaller than 1/T,so the video bandwidth is 10Hz.

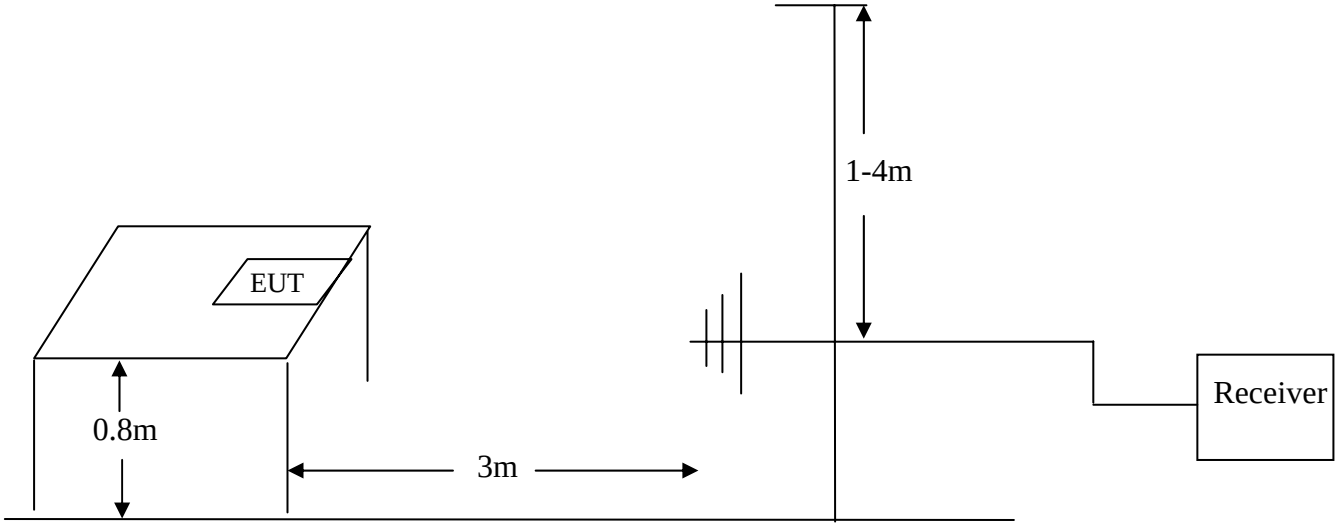
In 18GHz to 24GHz, The EUT was checked by Horn ANT . But the test result is background.

The EUT position(X. Y. Z) were checked and worse case was happened in Y position. So Y position was chose for find measurement.

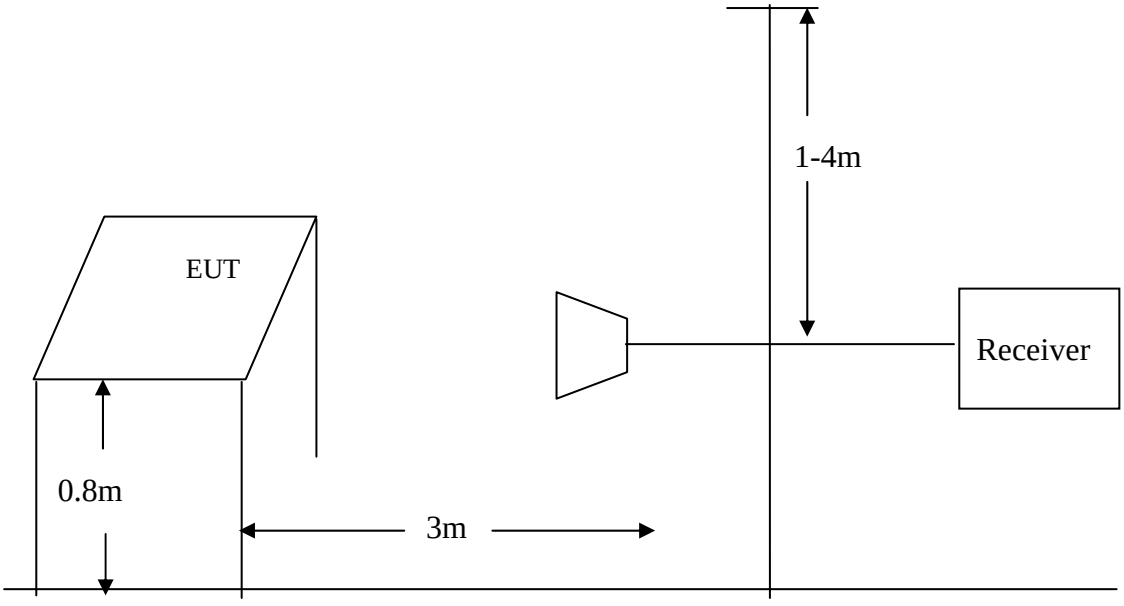
The EUT was tested in Chamber Site.

4.6.3 Test Setup Diagram

4.6.3.1. Frequency range: 30MHz-1000MHz



4.6.3.2. Frequency range: 1 GHz -25GHz



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www.nsco.cn

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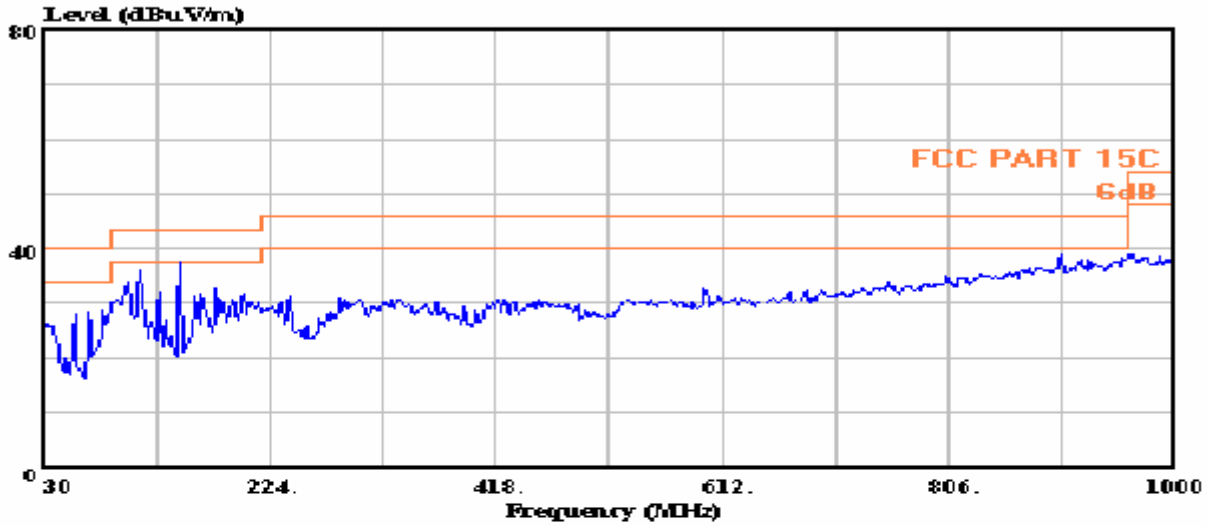
Date: 2008-05-14 Time: 08:39:30



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2402MHz

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www.nsco.cn

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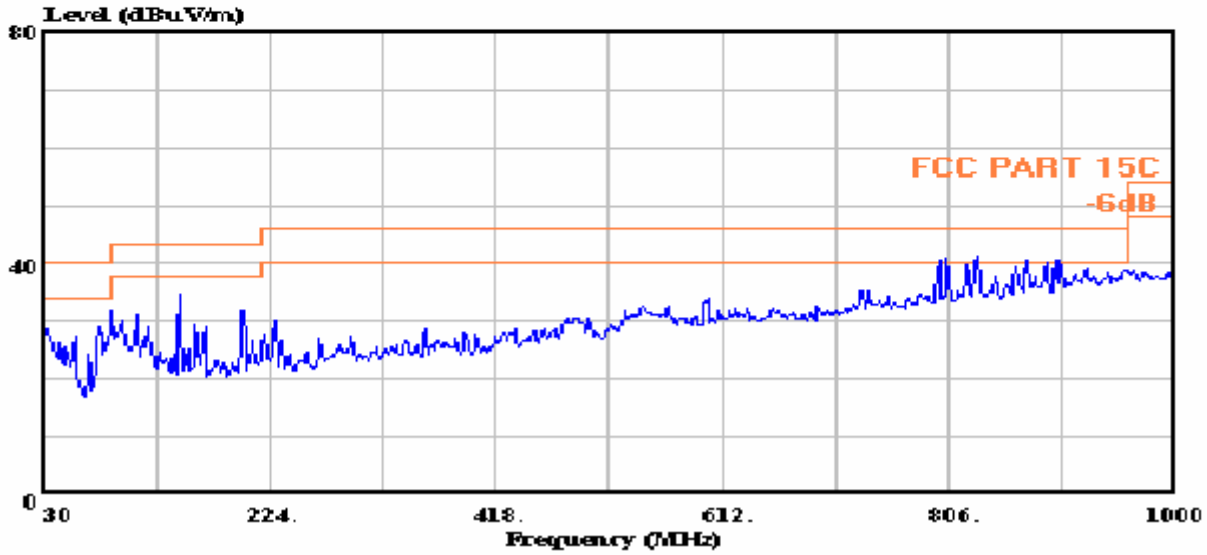

Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2402MHz

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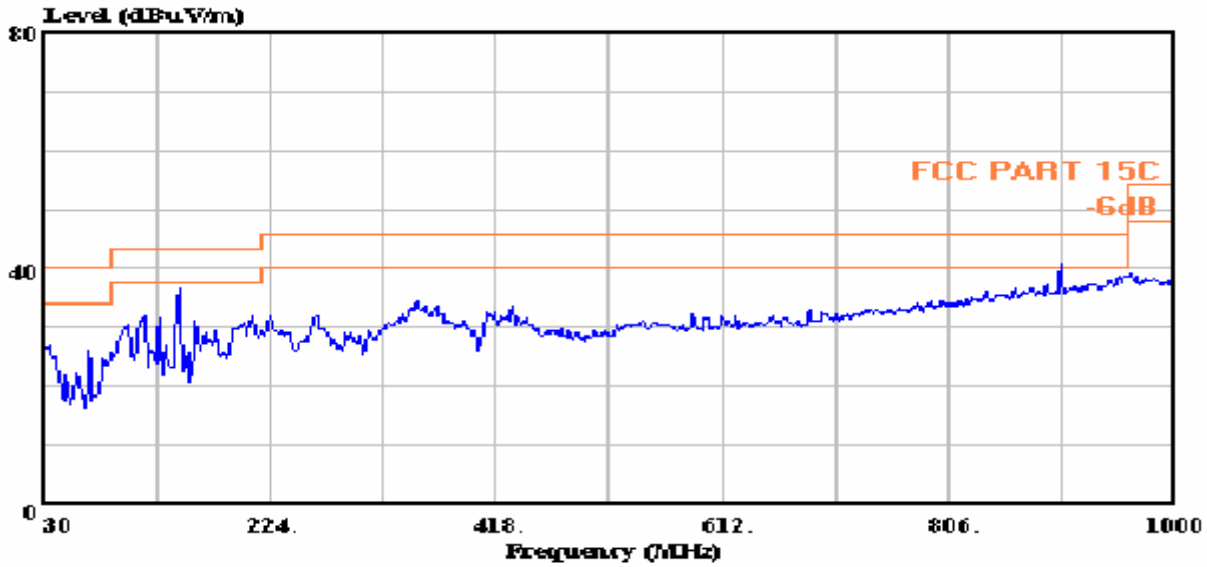
Data#: 4 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 08:45:18



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2441MHz

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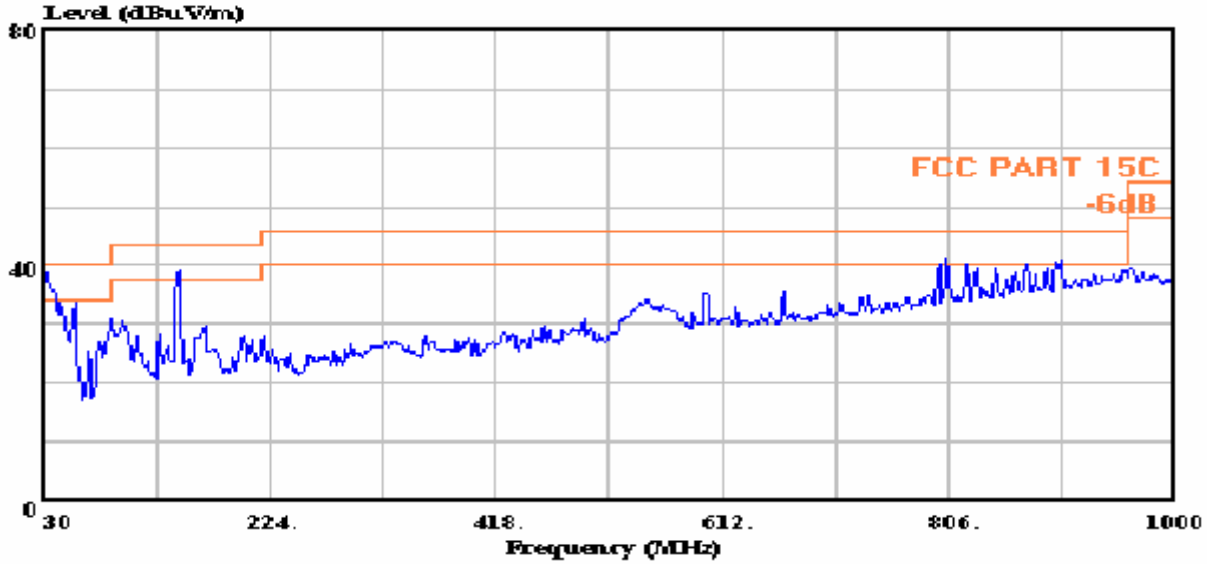
Data#: 3 File#: D:\Radiation\P\President.EMI

Date: 2008-05-14 Time: 08:44:58



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2441MHz

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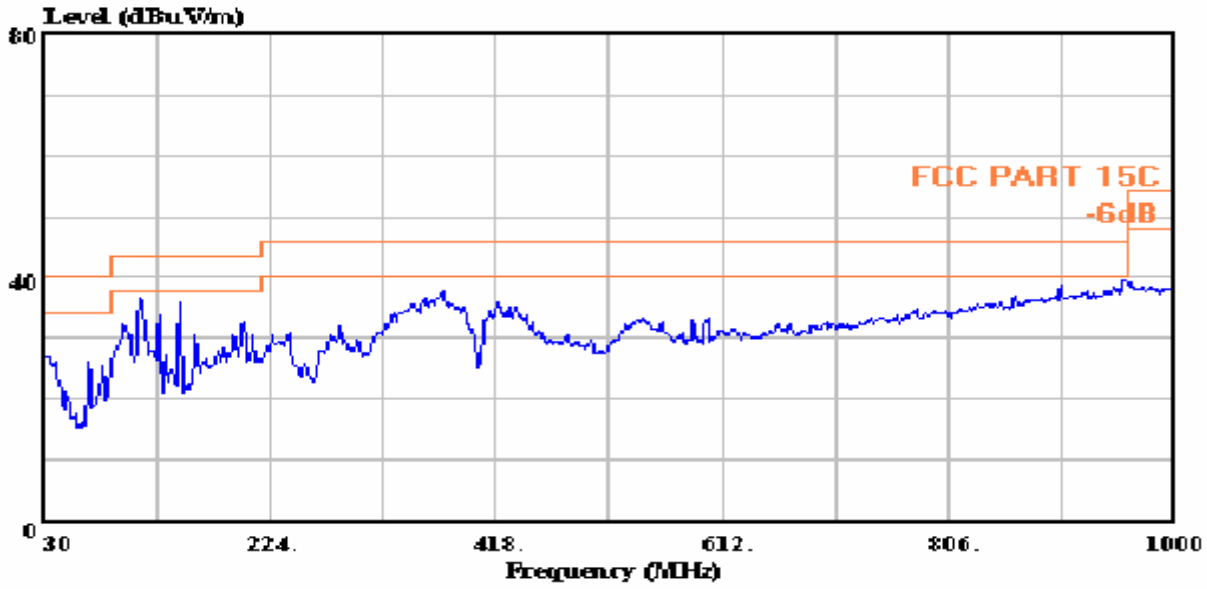
Data#: 5 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 08:49:41



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2480MHz

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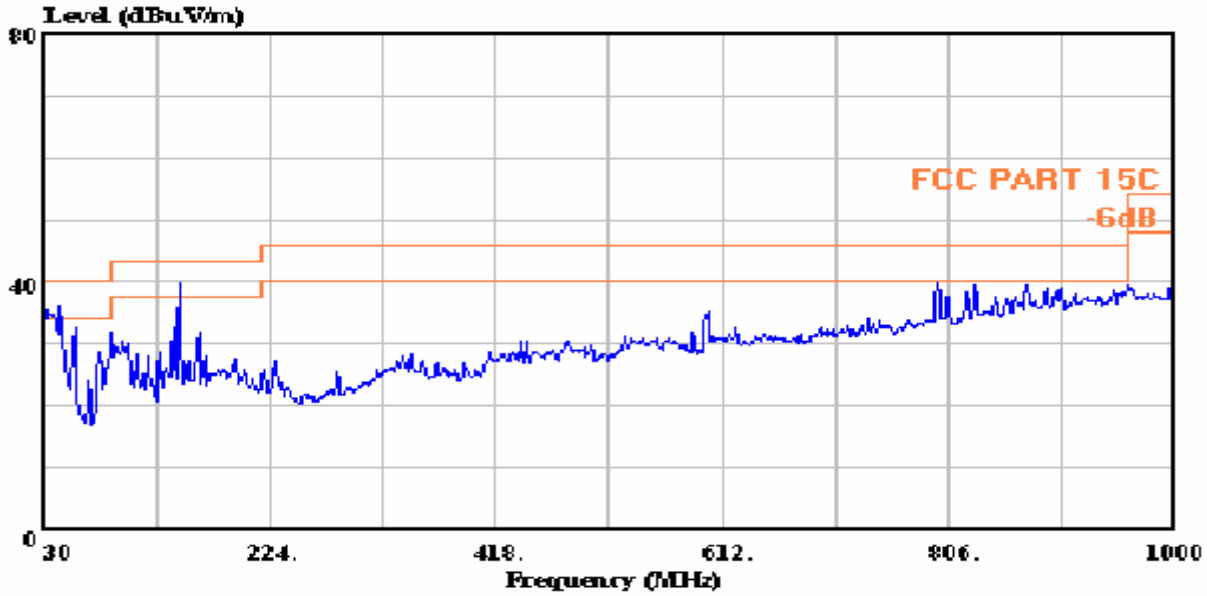
Data#: 6 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 08:50:01



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2480MHz

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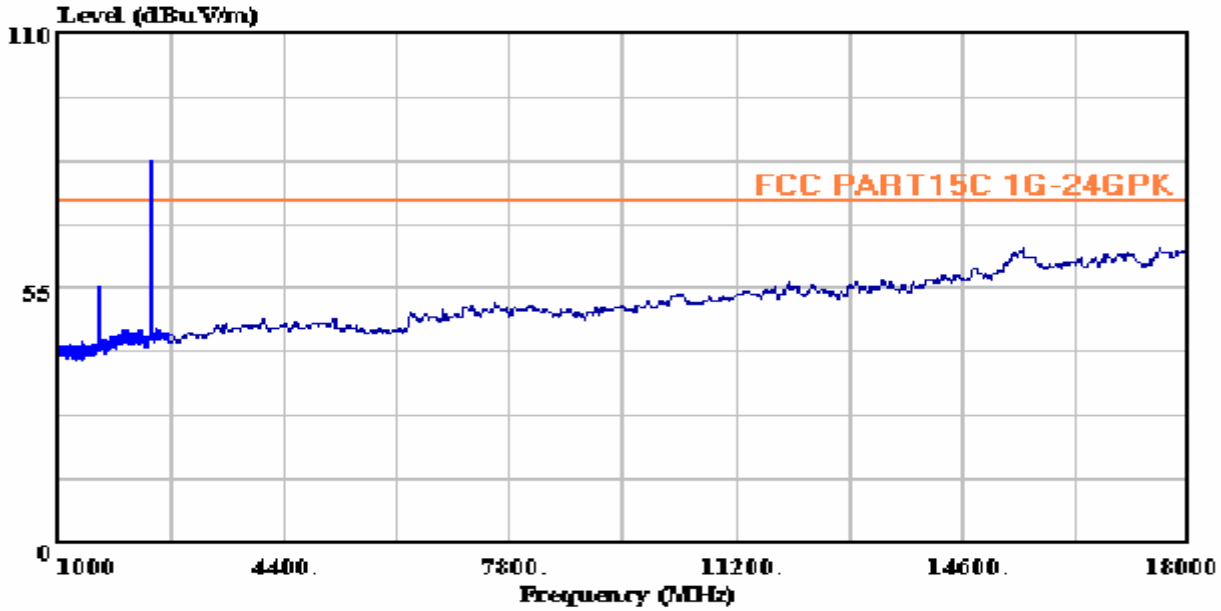
Data#: 9 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 09:37:45



Trace: 8
Site : 966 Chamber
Condition : FCC PART15C 1G-24GPK 3m 3117 HORIZONTAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2402MHz

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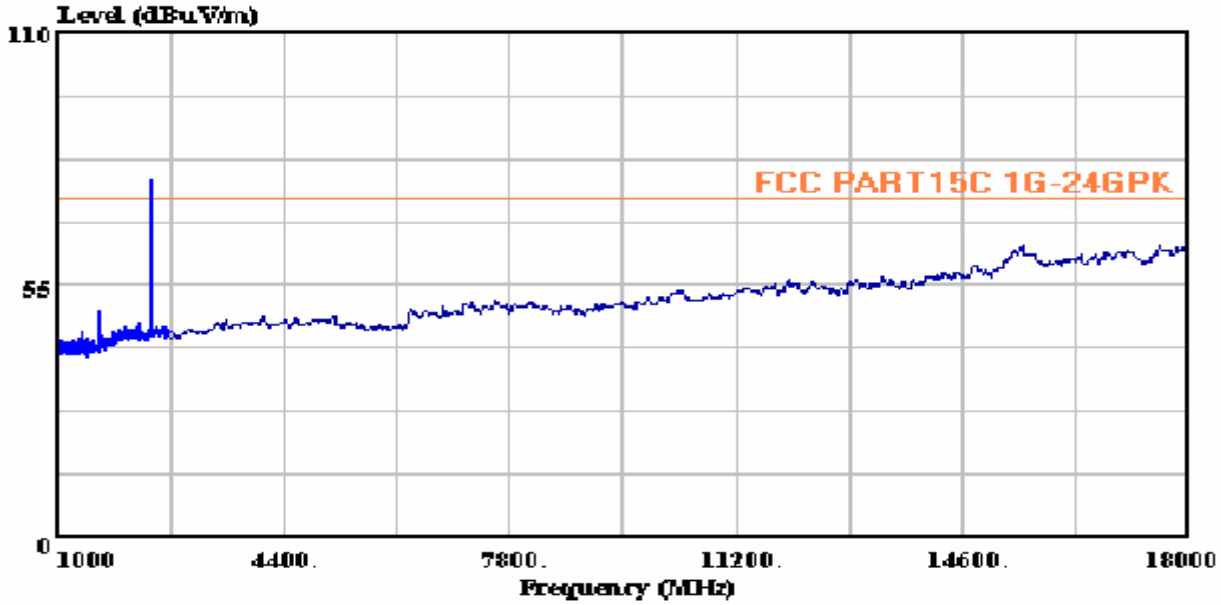
Data#: 7 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 09:35:02



Trace: 8
Site : 966 Chamber
Condition : FCC PART15C 1G-24GPK 3m 3117 VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2402MHz

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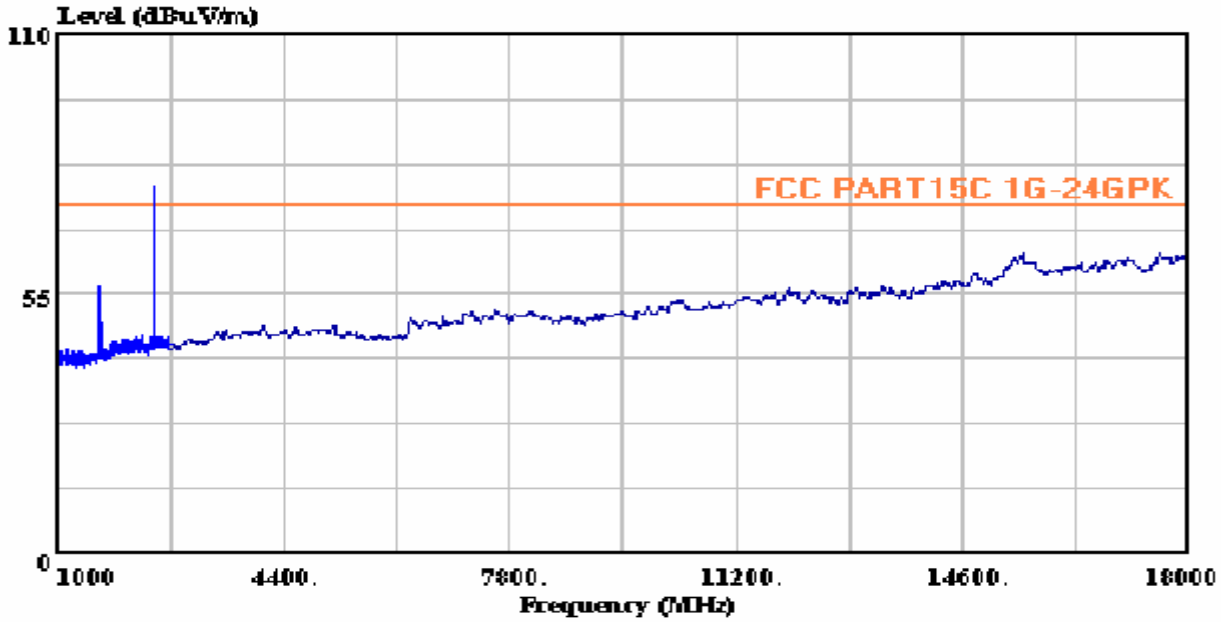
Data#: 10 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 09:38:52



Trace: 8
Site : 966 Chamber
Condition : FCC PART15C 1G-24GPK 3m 3117 HORIZONTAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2441MHz

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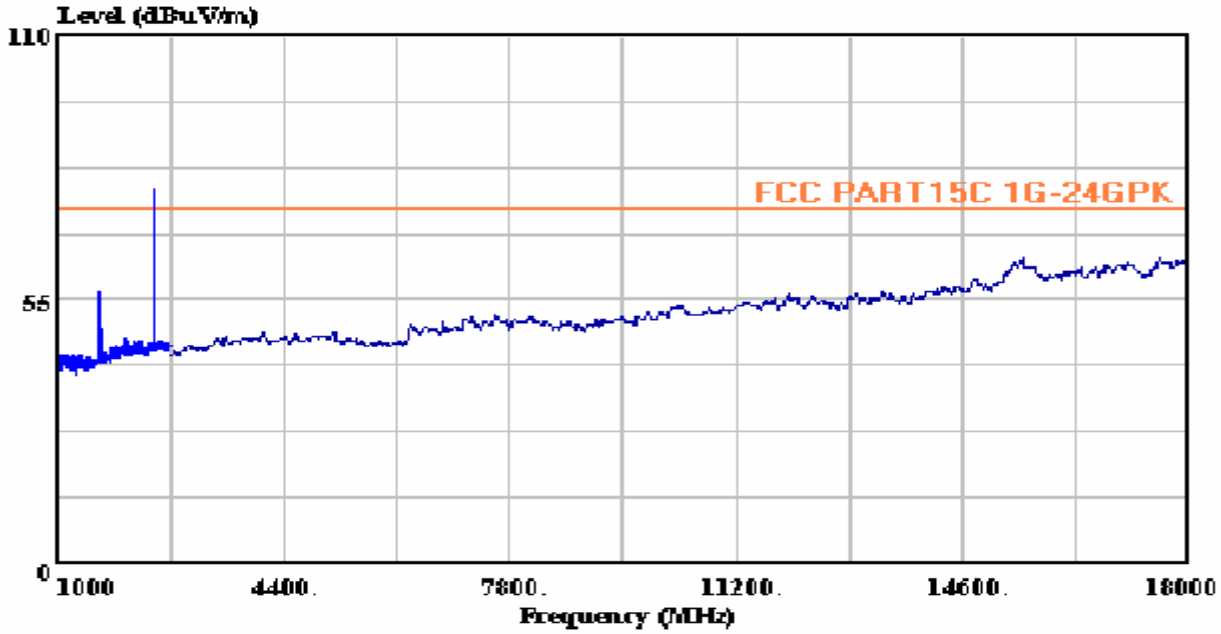
Data#: 11 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 09:39:11



Trace: 8
Site : 966 Chamber
Condition : FCC PART15C 1G-24GPK 3m 3117 VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2441MHz

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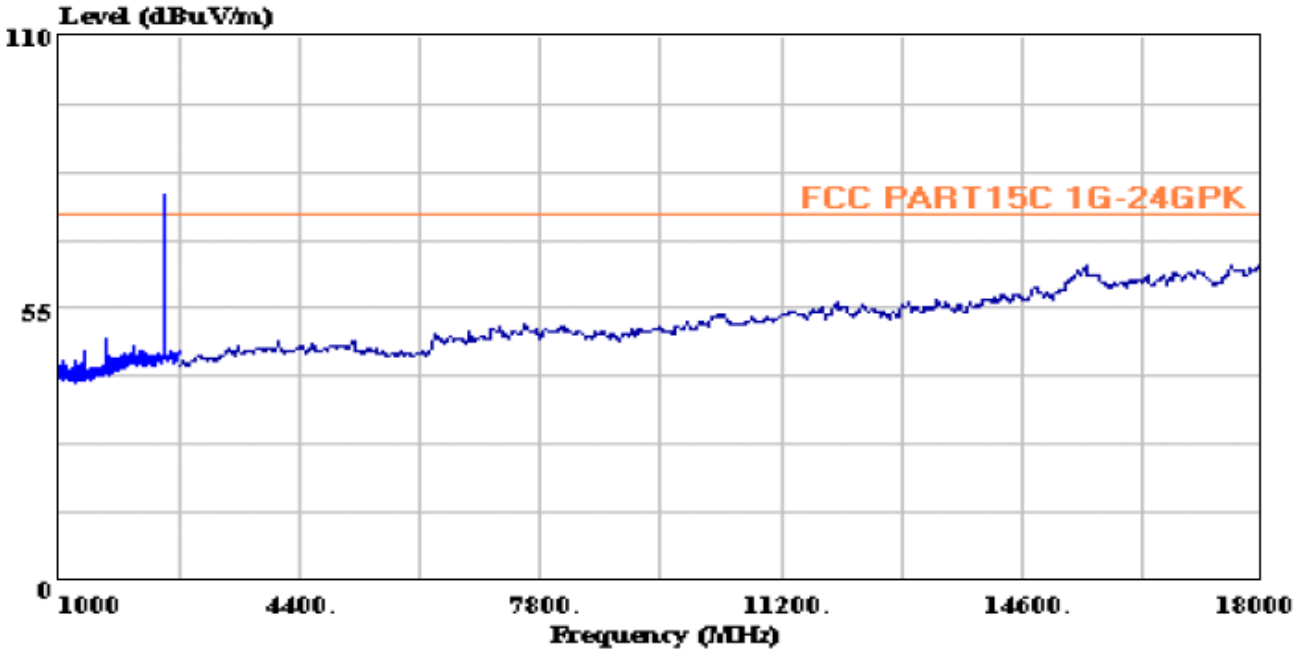
Data#: 13 File#: \\966pc1\radiation\P\President.EMI Date: 2008-05-14 Time: 09:42:15



Trace: 8

Site : 966 Chamber
Condition : FCC PART15C 1G-24GPK 3m 3117 HORIZONTAL
EUT : Bkuetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V (PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2480MHz

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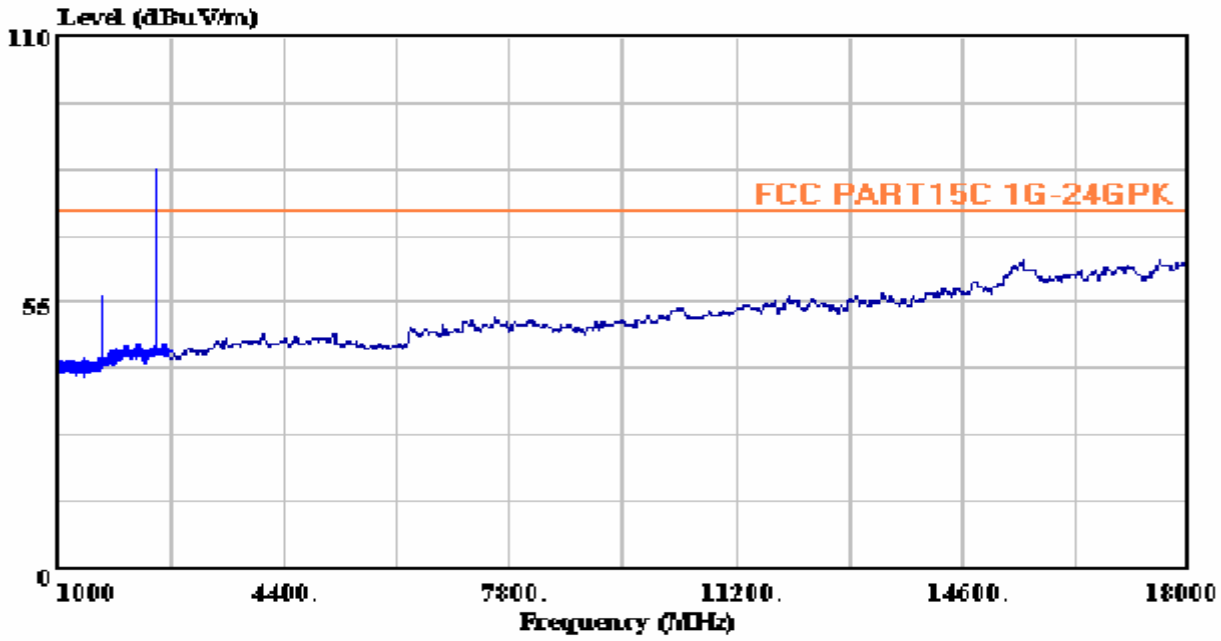
Data#: 12 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 09:40:29



Trace: 8
Site : 966 Chamber
Condition : FCC PART15C 1G-24GPK 3m 3117 VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2480MHz

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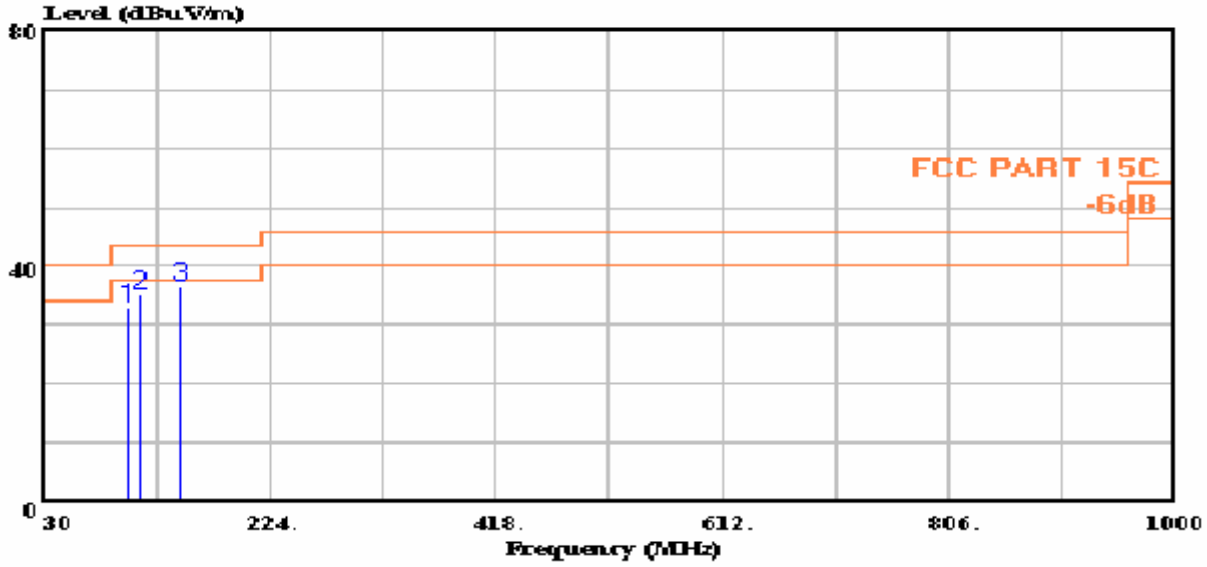
Data#: 16 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 09:53:30



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2402MHz
: Ant high:1.2m Table angle:174'

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	101.780	33.15	-10.35	43.50	17.65	1.50	14.00	QP
2	111.480	35.07	-8.43	43.50	21.54	1.61	11.92	QP
3	145.430	36.56	-6.94	43.50	23.68	1.85	11.03	QP

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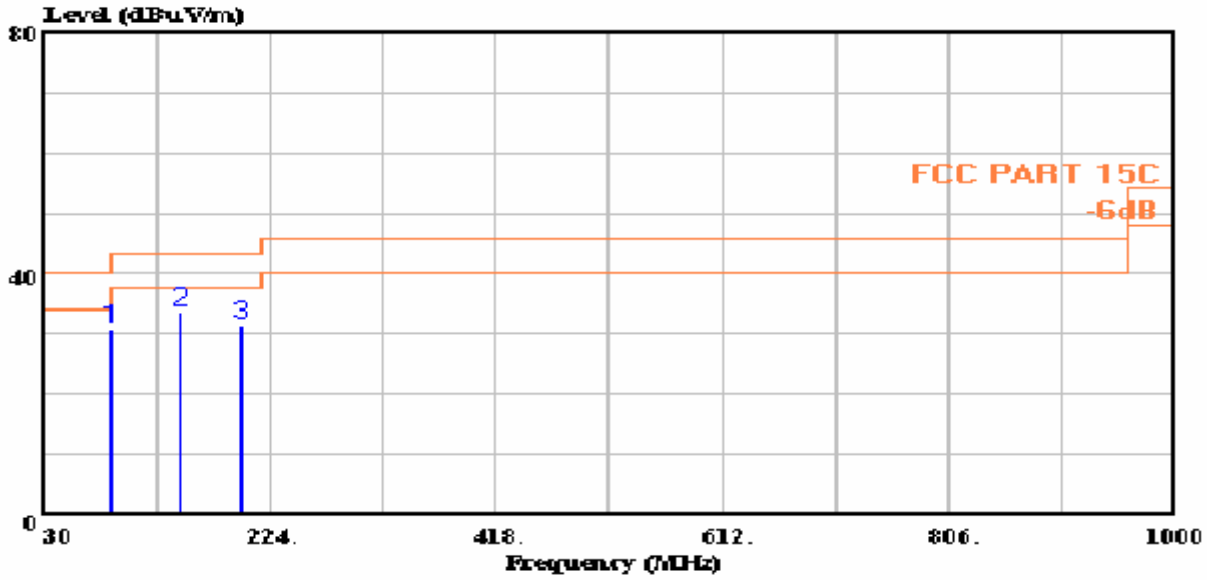
Data#: 17 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 09:58:38



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2402MHz
: Ant high:2.1m Table angle:27'

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	87.230	30.86	-9.14	40.00	16.82	1.37	12.67	QP
2	145.430	33.73	-9.77	43.50	20.85	1.85	11.03	QP
3	199.750	31.46	-12.04	43.50	16.14	2.24	13.08	QP

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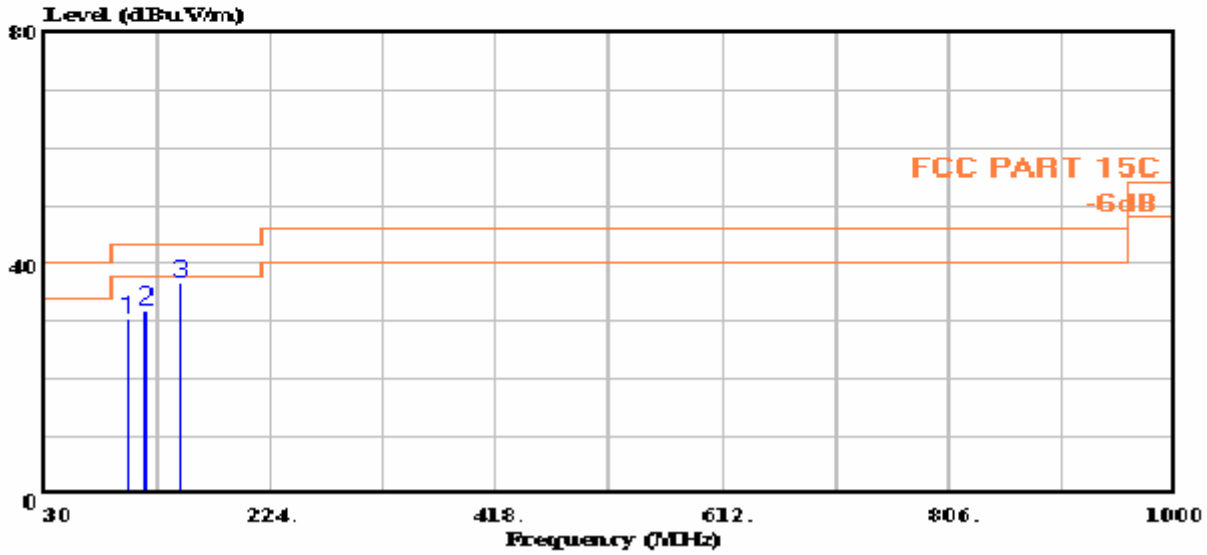
Data#: 15 File#: D:\Radiation\P\President.EMI

Date: 2008-05-14 Time: 09:49:02



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2441MHz
: Ant high:1.3m Table angle:177'

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	101.780	30.35	-13.15	43.50	14.00	1.50	14.85	QP
2	116.330	31.82	-11.68	43.50	16.52	1.65	13.65	QP
3	145.430	36.75	-6.75	43.50	21.17	1.85	13.73	QP

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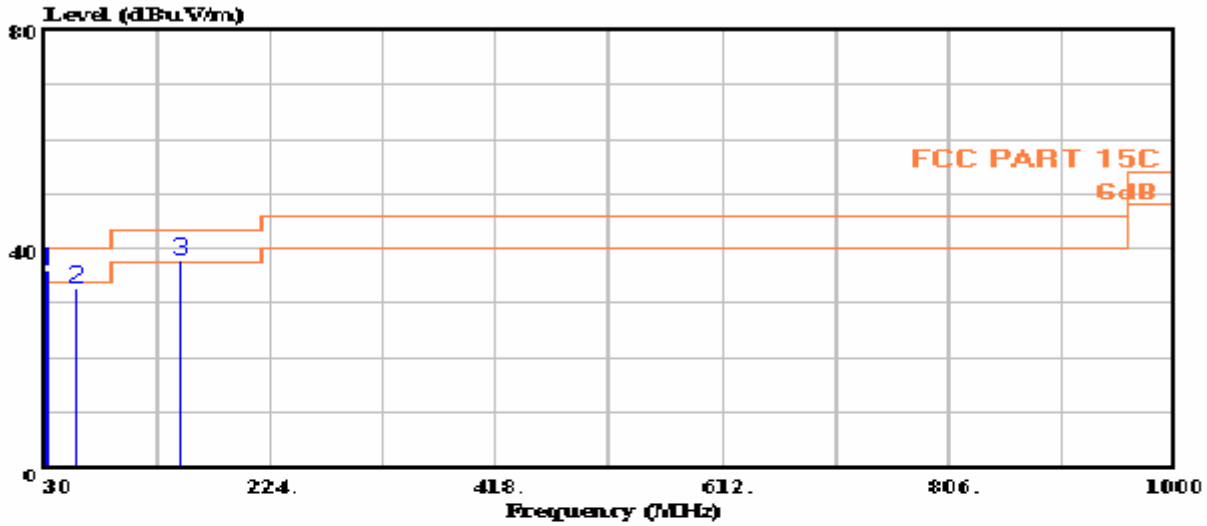
Data#: 14 File#: D:\Radiation\P\President.EMI

Date: 2008-05-14 Time: 09:45:48



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2441MHz
: Ant high:2.1m Table angle:49'

Page: 1

		Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	!	31.940	36.30	-3.70	40.00	10.99	0.77	24.54	QP
2		56.190	33.07	-6.93	40.00	19.88	1.05	12.14	QP
3	!	145.430	38.05	-5.45	43.50	22.47	1.85	13.73	QP

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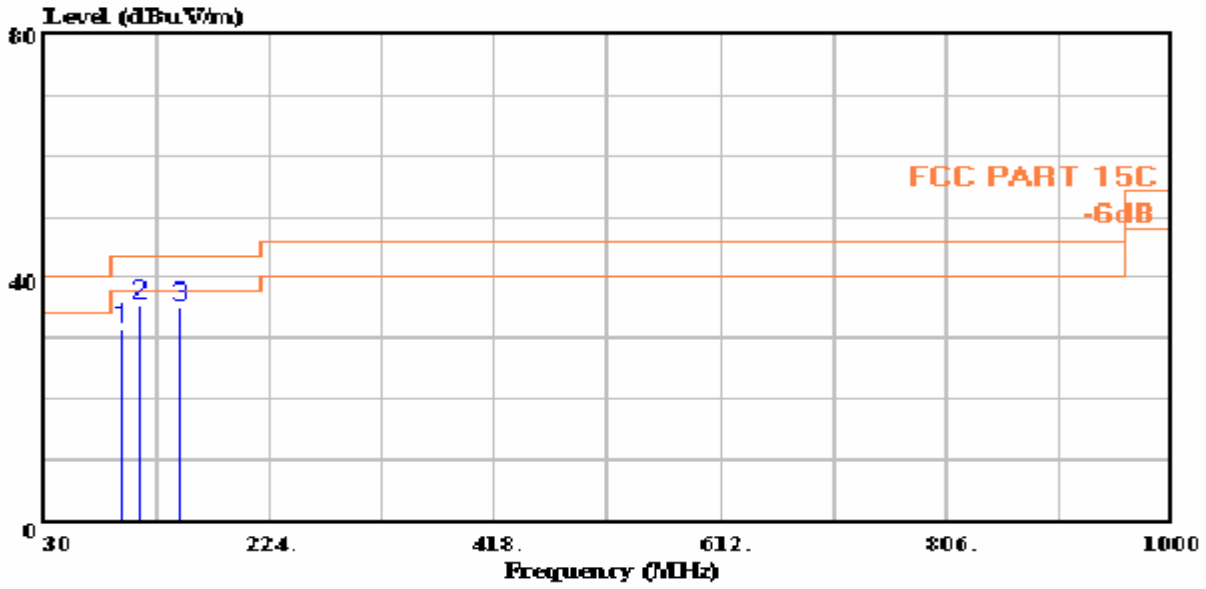
Data#: 18 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 10:04:41



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B HORIZONTAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2480MHz
: Ant high:1.3m Table angle:170'

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	96.930	31.66	-11.84	43.50	15.98	1.51	14.17	QP
2	111.480	35.62	-7.88	43.50	22.09	1.61	11.92	QP
3	145.430	35.02	-8.48	43.50	22.14	1.85	11.03	QP

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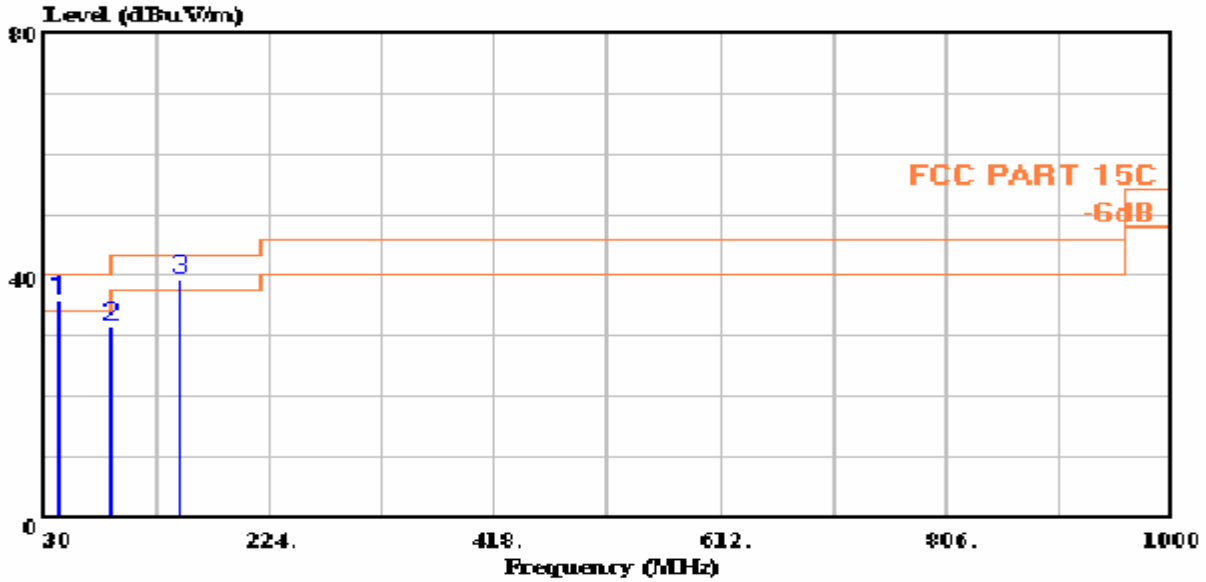
Data#: 19 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 10:10:01



Site : 966 Chamber
Condition : FCC PART 15C 3m 3142B VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2480MHz
: Ant high:2.0m Table angle:19'

Page: 1

		Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	!	43.580	35.74	-4.26	40.00	20.67	0.93	14.14	QP
2		87.230	31.59	-8.41	40.00	17.55	1.37	12.67	QP
3	!	145.430	39.35	-4.15	43.50	26.47	1.85	11.03	QP

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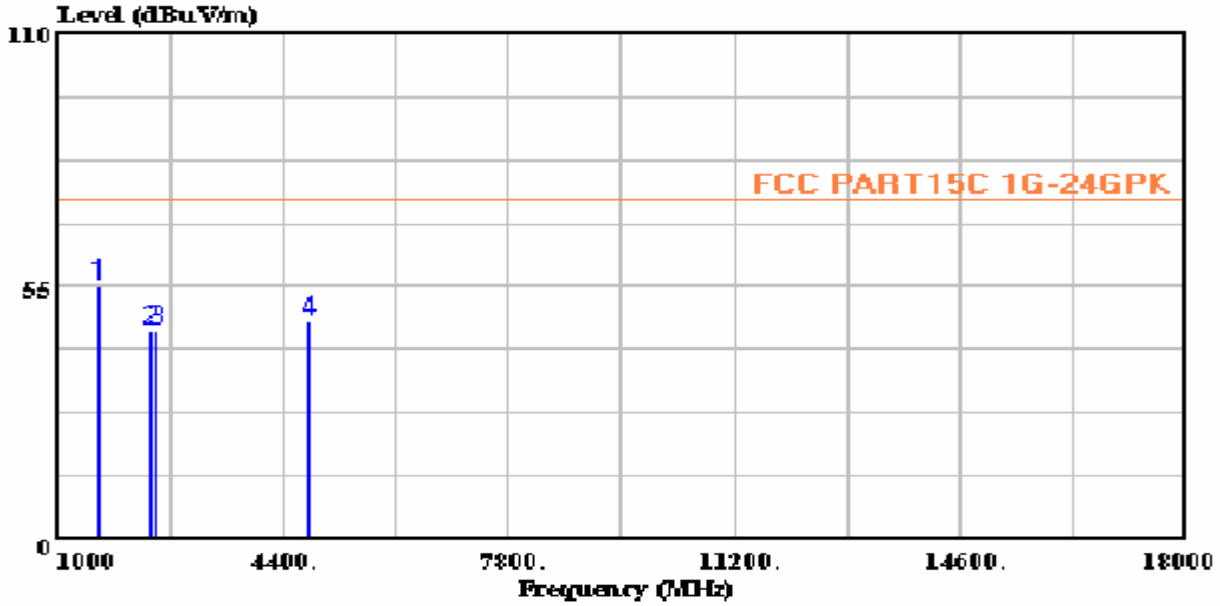
Data#: 21 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 10:17:45



Site : 966 Chamber
Condition : FCC PART15C 1G-24GPK 3m 3117 HORIZONTAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2402MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	1603.120	55.41	-18.59	74.00	62.92	2.16	28.33	Peak
2	2390.000	45.48	-28.52	74.00	49.77	2.23	31.48	Peak
3	2483.500	45.14	-28.86	74.00	49.33	2.23	31.58	Peak
4	4804.000	47.32	-26.68	74.00	10.32	2.38	34.62	Peak

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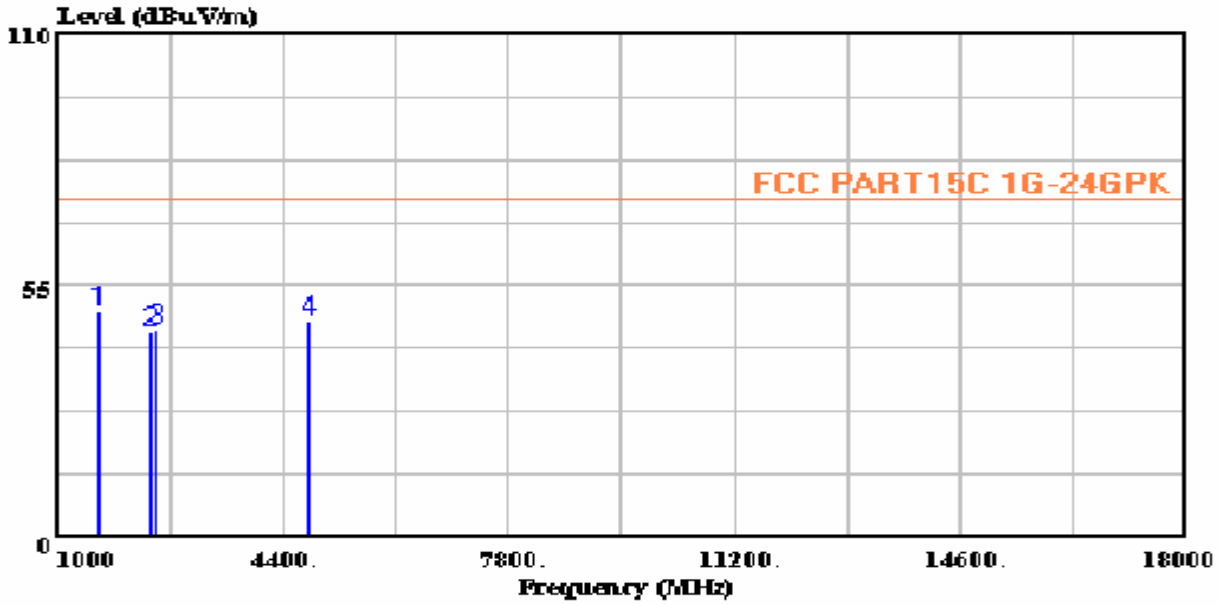
Data#: 20 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 10:13:02



Site : 966 Chamber
Condition : FCC PART15C 1G-24GPK 3m 3117 VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2402MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	1603.120	49.24	-24.76	74.00	56.75	2.16	28.33	Peak
2	2390.000	44.95	-29.05	74.00	49.24	2.23	31.48	Peak
3	2483.500	45.29	-28.71	74.00	49.48	2.23	31.58	Peak
4	4804.000	47.32	-26.68	74.00	10.36	2.38	34.58	Peak

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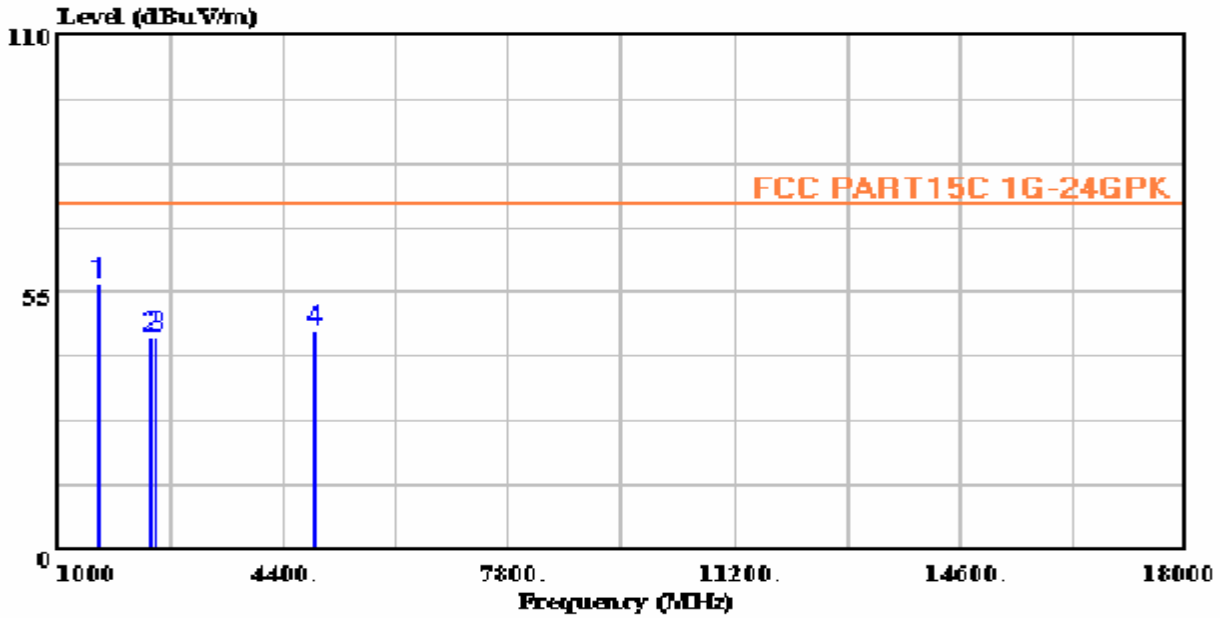
Data#: 22 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 10:21:52



Site : 966 Chamber
Condition : FCC PART15C 1G-24GPK 3m 3117 HORIZONTAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2441MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	1628.320	56.83	-17.17	74.00	64.09	2.16	28.58	Peak
2	2390.000	45.47	-28.53	74.00	49.76	2.23	31.48	Peak
3	2483.500	45.37	-28.63	74.00	49.56	2.23	31.58	Peak
4	4884.000	47.00	-27.00	74.00	10.00	2.38	34.62	Peak

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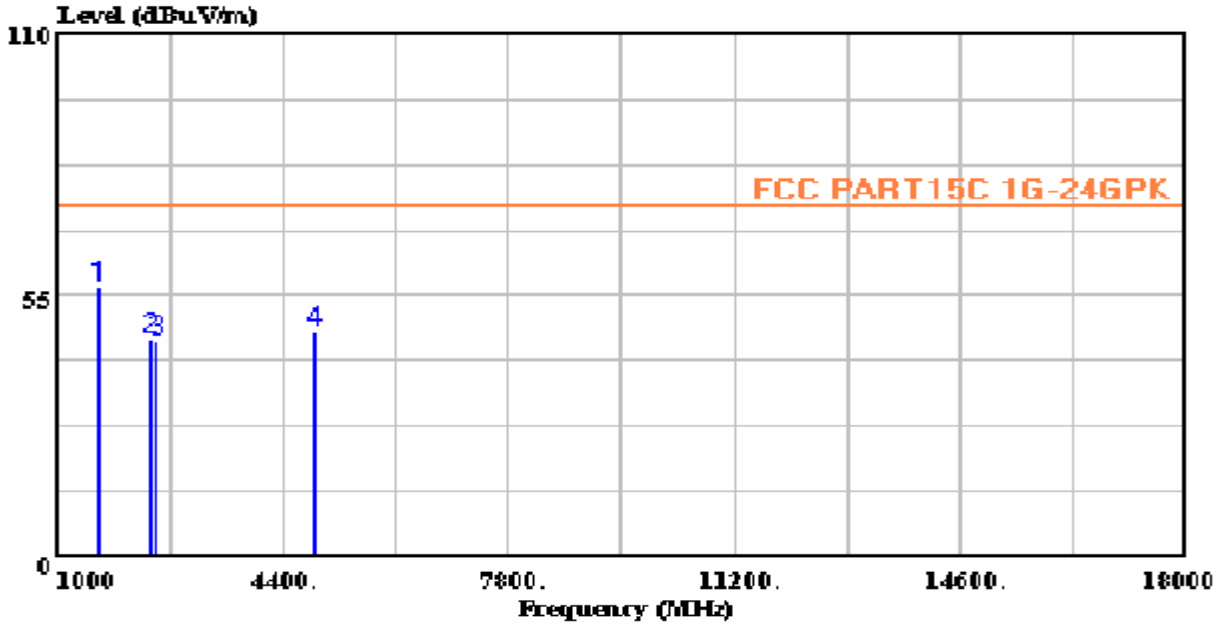
Data#: 23 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 10:25:01



Site : 966 Chamber
Condition : FCC PART15C 1G-24GPK 3m 3117 VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2441MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	1628.320	56.92	-17.08	74.00	64.18	2.16	28.58	Peak
2	2390.000	45.80	-28.20	74.00	50.09	2.23	31.48	Peak
3	2483.500	45.49	-28.51	74.00	49.68	2.23	31.58	Peak
4	4884.000	47.33	-26.67	74.00	10.33	2.38	34.62	Peak

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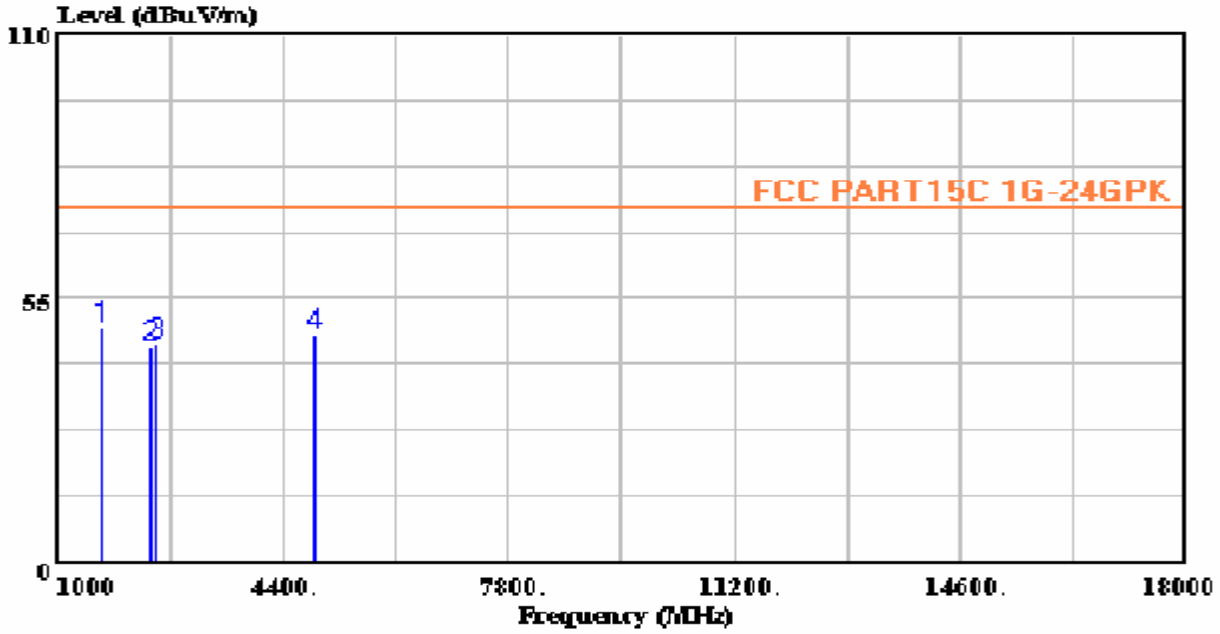
Data#: 25 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 10:34:15



Site : 966 Chamber
Condition : FCC PART15C 1G-24GPK 3m 3117 HORIZONTAL
EUT : Bkuetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V (PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2480MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	1653.520	48.79	-25.21	74.00	55.91	2.17	28.71	Peak
2	2390.000	44.82	-29.18	74.00	49.11	2.23	31.48	Peak
3	2483.500	45.19	-28.81	74.00	49.38	2.23	31.58	Peak
4	4860.000	47.46	-26.54	74.00	10.47	2.38	34.61	Peak

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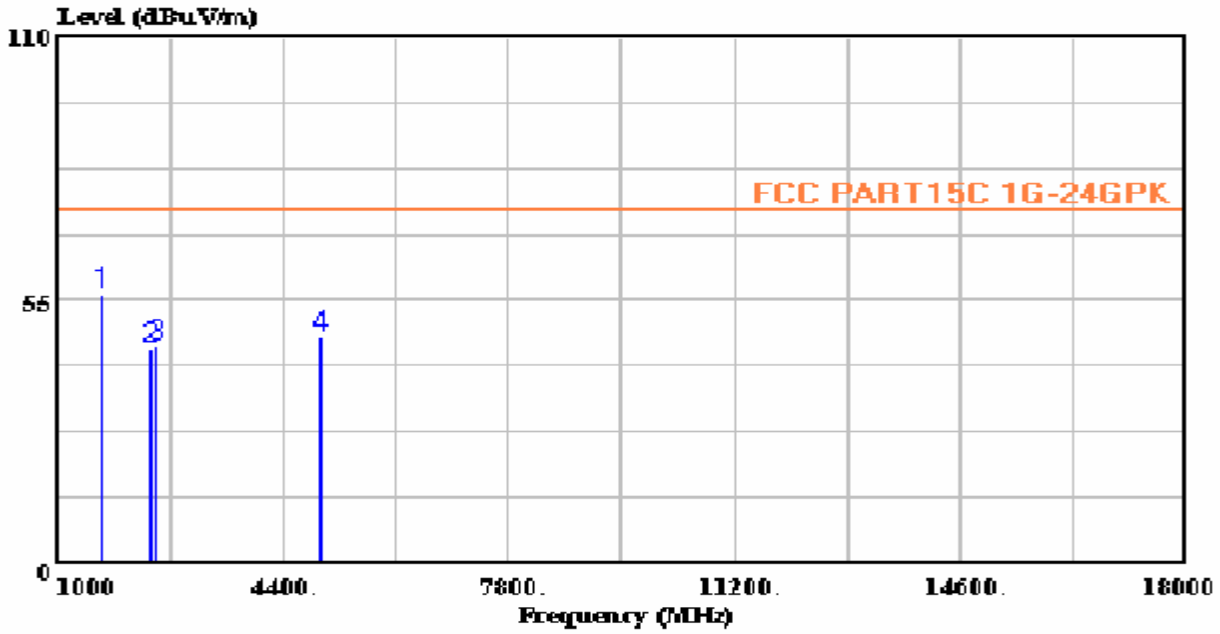
Data#: 24 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 10:29:29



Site : 966 Chamber
Condition : FCC PART15C 1G-24GPK 3m 3117 VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2480MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	1653.520	56.38	-17.62	74.00	63.50	2.17	28.71	Peak
2	2390.000	44.94	-29.06	74.00	49.23	2.23	31.48	Peak
3	2483.500	45.33	-28.67	74.00	49.52	2.23	31.58	Peak
4	4960.000	47.46	-26.54	74.00	10.40	2.39	34.67	Peak

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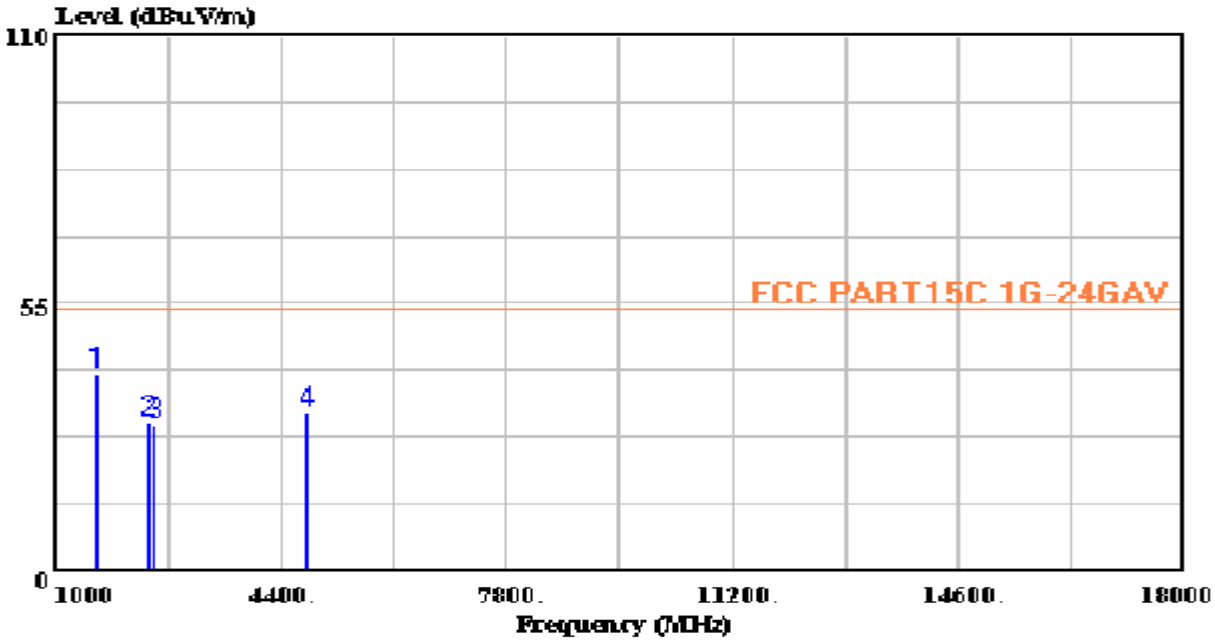
Data#: 27 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 10:40:02



Site : 966 Chamber
Condition : FCC PART15C 1G-24GAV 3m 3117 HORIZONTAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2402MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	1603.120	40.41	-13.59	54.00	47.92	2.16	28.33	Average
2	2390.000	30.48	-23.52	54.00	34.77	2.23	31.48	Average
3	2483.500	30.14	-23.86	54.00	34.33	2.23	31.58	Average
4	4804.000	32.32	-21.68	54.00	-4.64	2.38	34.58	Average

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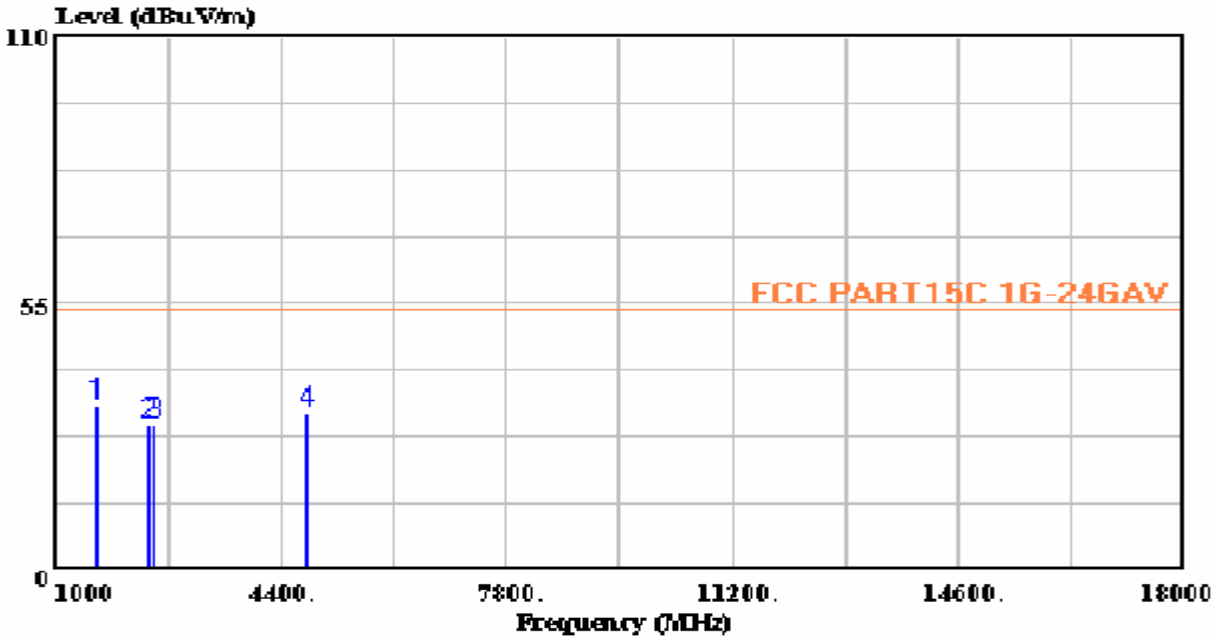
Data#: 26 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 10:37:02



Site : 966 Chamber
Condition : FCC PART15C 1G-24GAV 3m 3117 VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2402MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	1603.120	34.24	-19.76	54.00	41.75	2.16	28.33	Average
2	2390.000	29.95	-24.05	54.00	34.24	2.23	31.48	Average
3	2483.500	30.29	-23.71	54.00	34.48	2.23	31.58	Average
4	4804.000	32.32	-21.68	54.00	-4.64	2.38	34.58	Average

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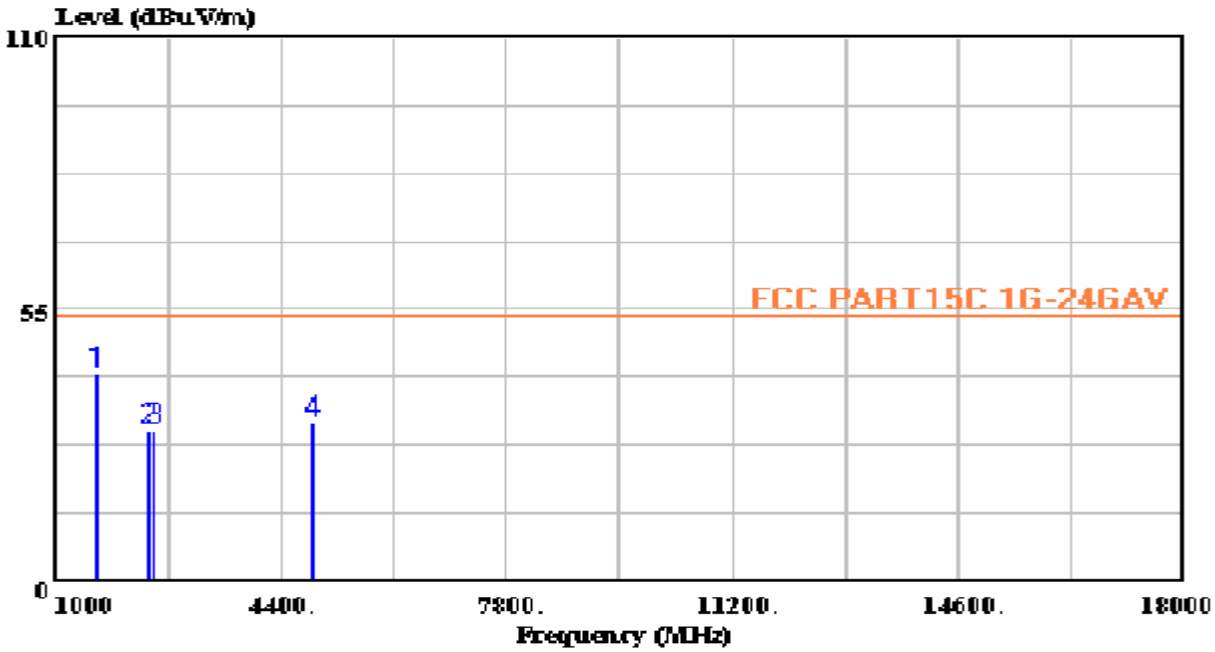
Data#: 28 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 10:43:34



Site : 966 Chamber
Condition : FCC PART15C 1G-24GAV 3m 3117 HORIZONTAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2441MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	1628.320	41.83	-12.17	54.00	49.09	2.16	28.58	Average
2	2390.000	30.47	-23.53	54.00	34.76	2.23	31.48	Average
3	2483.500	30.37	-23.63	54.00	34.56	2.23	31.58	Average
4	4884.000	32.00	-22.00	54.00	-5.00	2.38	34.62	Average

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Data#: 29 File#: D:\Radiation\P\President.EMI
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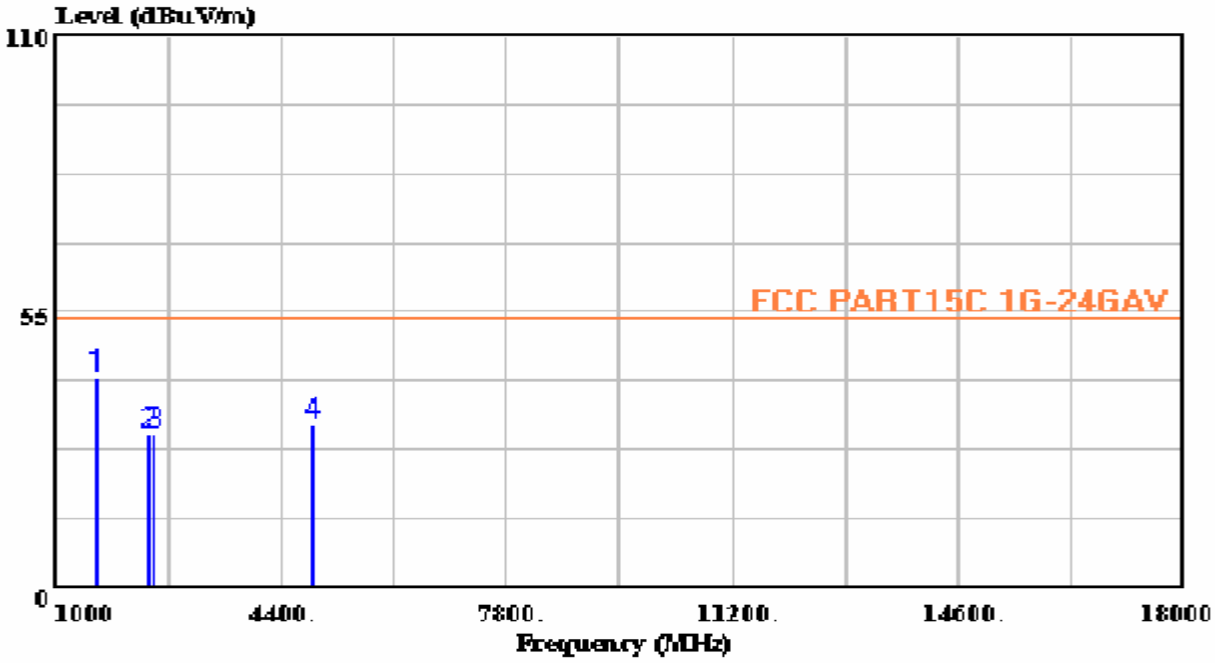

Site : 966 Chamber
Condition : FCC PART15C 1G-24GAV 3m 3117 VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2441MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	1628.320	41.92	-12.08	54.00	49.18	2.16	28.58	Average
2	2390.000	30.80	-23.20	54.00	35.09	2.23	31.48	Average
3	2483.500	30.49	-23.51	54.00	34.68	2.23	31.58	Average
4	4884.000	32.33	-21.67	54.00	-4.67	2.38	34.62	Average

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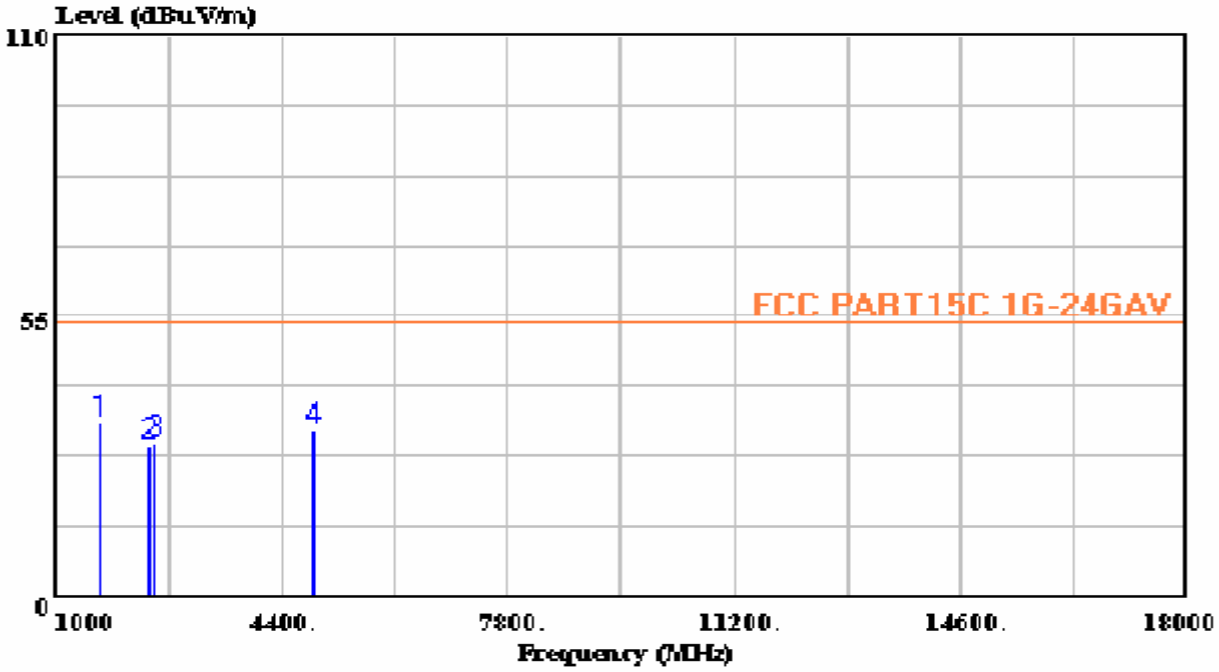
Data#: 31 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 10:55:12



Site : 966 Chamber
Condition : FCC PART15C 1G-24GAV 3m 3117 HORIZONTAL
EUT : Bkuetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V (PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2480MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	1653.520	33.79	-20.21	54.00	40.91	2.17	28.71	Average
2	2390.000	29.82	-24.18	54.00	34.11	2.23	31.48	Average
3	2483.500	30.19	-23.81	54.00	34.38	2.23	31.58	Average
4	4860.000	32.46	-21.54	54.00	-4.53	2.38	34.61	Average

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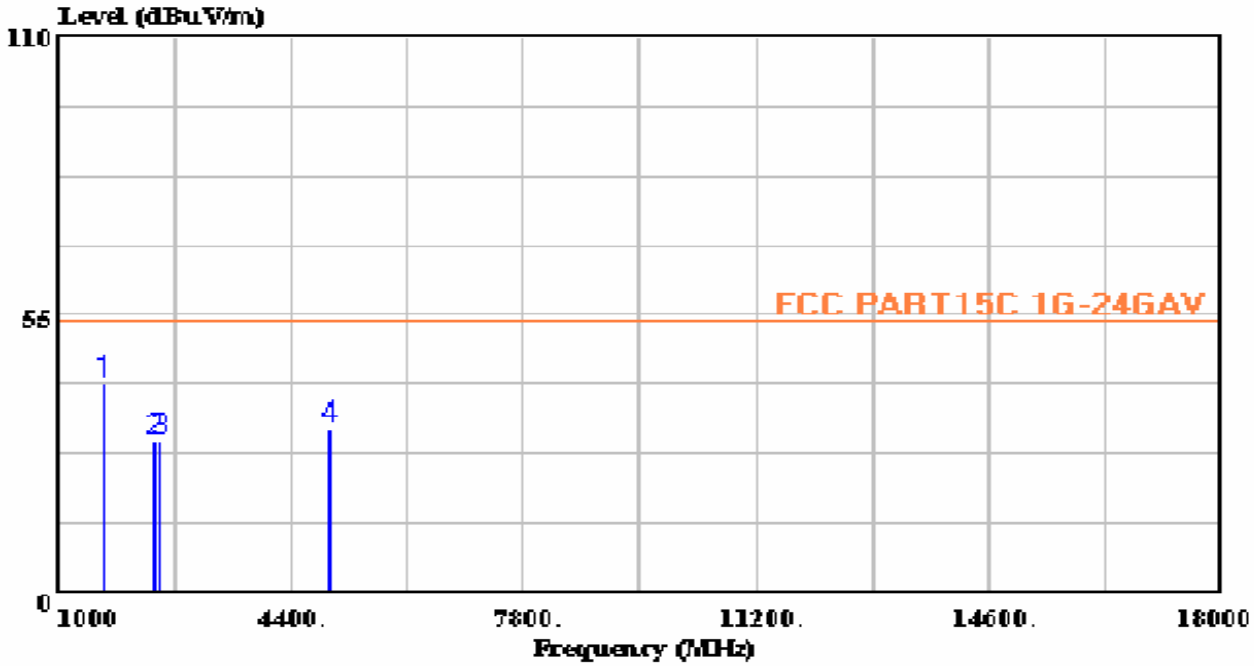
Data#: 30 File#: D:\Radiation\P\President.EMI
Date: 2008-05-14 Time: 10:50:52



Site : 966 Chamber
Condition : FCC PART15C 1G-24GAV 3m 3117 VERTICAL
EUT : Bluetooth Stereo Headset
M/N : KB37S_BT100
Power : DC 5V(PC input AC 120V/60Hz)
Test Engineer: Jacky
Comment : Temp:24.3'C Humi:55%
Memo : Bluetooth 2480MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	1653.520	41.38	-12.62	54.00	48.50	2.17	28.71	Average
2	2390.000	29.94	-24.06	54.00	34.23	2.23	31.48	Average
3	2483.500	30.33	-23.67	54.00	34.52	2.23	31.58	Average
4	4960.000	32.46	-21.54	54.00	-4.60	2.39	34.67	Average

4.7. Conducted Emission

4.7.1. Test limits

intentional radiator shall be at least 20dB below that in 100kHz bandwidth within the band that contains the highest level of the desired power.

4.7.2. Test procedure

1. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.

2. Set the EUT work on the CH1, CH79individually.

4. Set SPA Frequency = Operation frequency, for PK: RBW =100kHz, VBW≧RBW

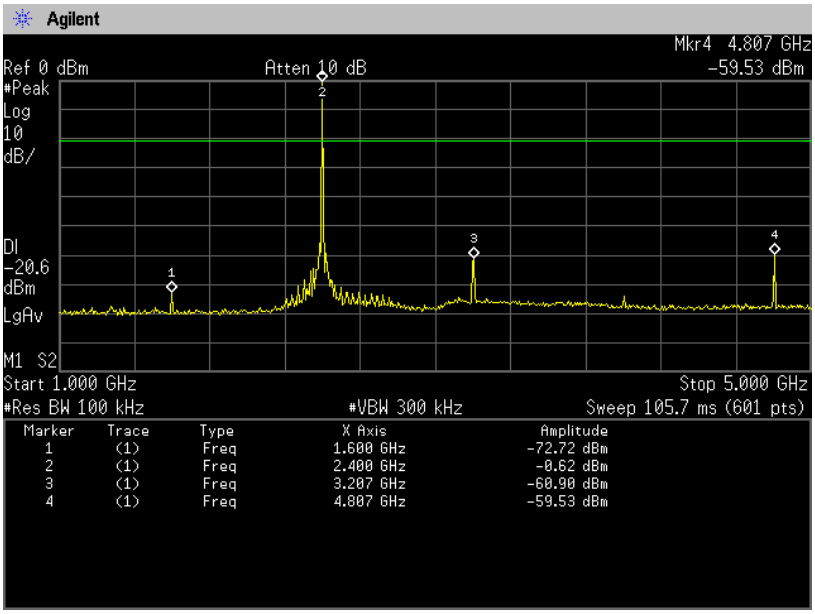
5. Set SPA trace max hold, then view.

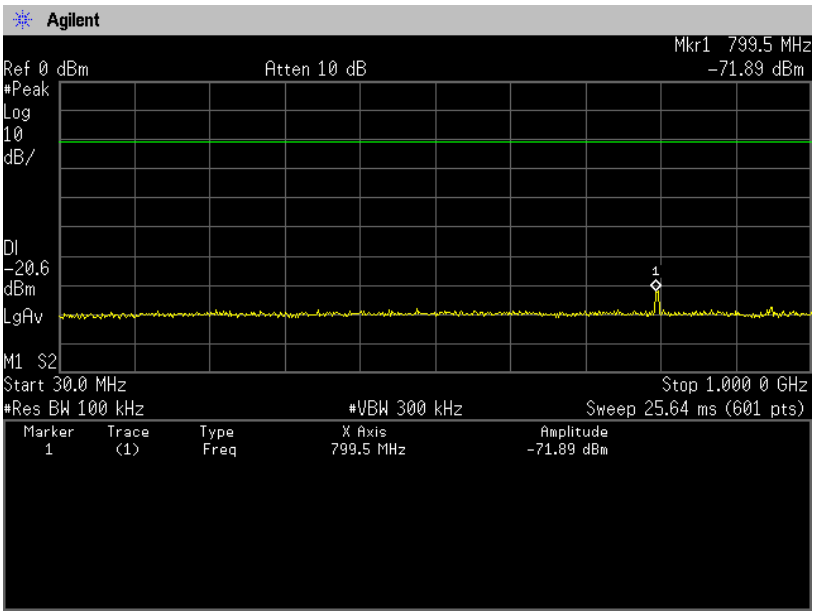
4.7.3. Test result

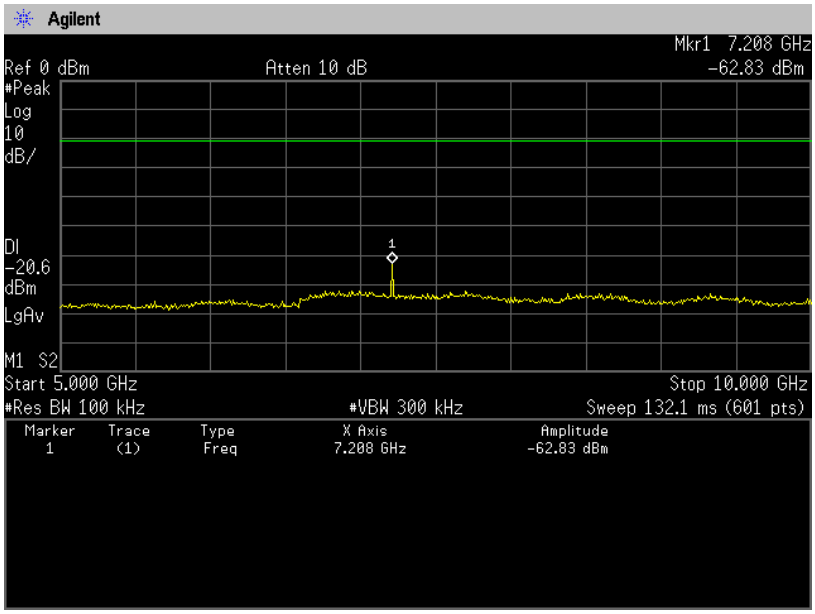
PASS.

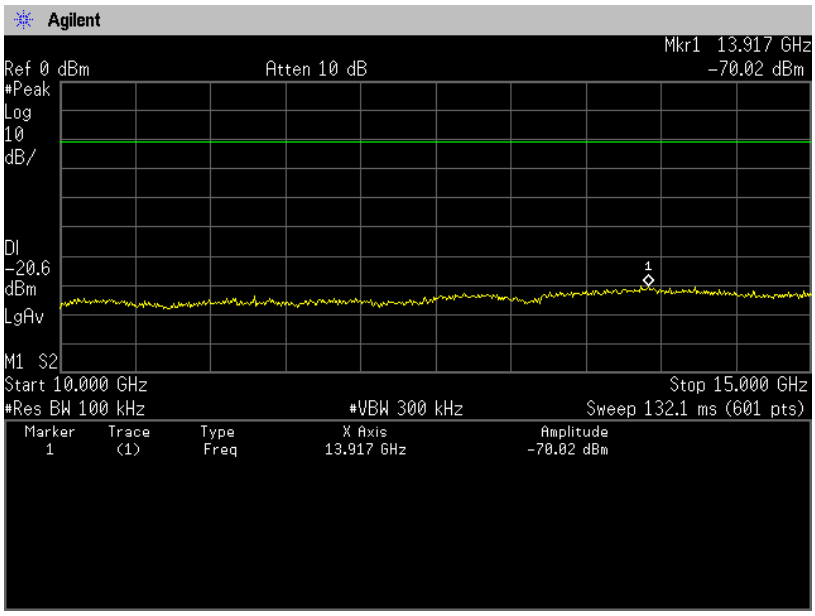
The test plots as following:

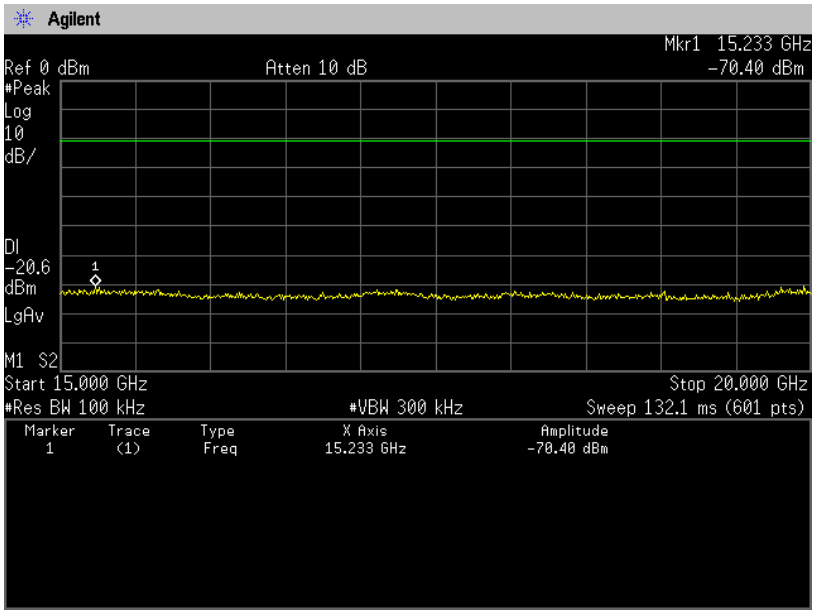
CH1:2402MHz

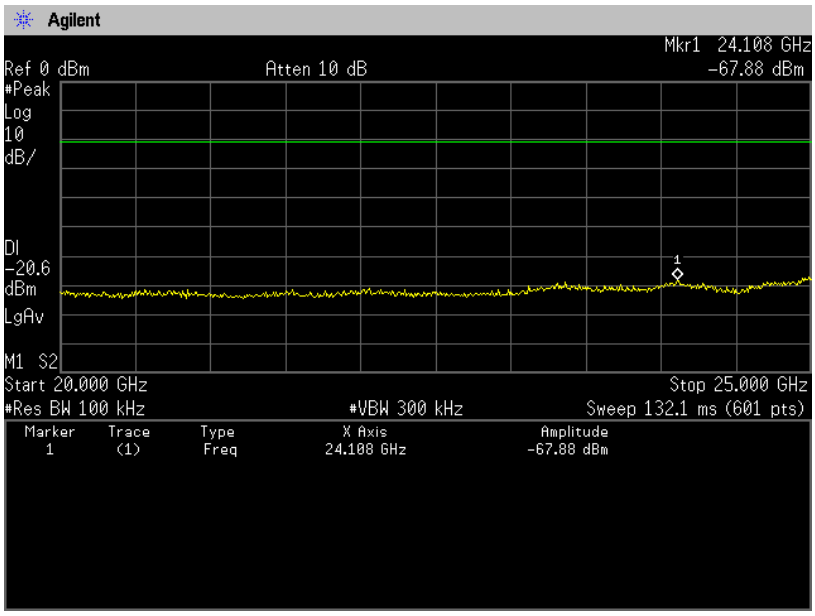



Agilent
Mkr1 799.5 MHz
Ref 0 dBm
Atten 10 dB
-71.89 dBm
#Peak
Log
10
dB/
Dl
-20.6
dBm
LgAv
M1 S2
Start 30.0 MHz
Stop 1.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 25.64 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 799.5 MHz -71.89 dBm

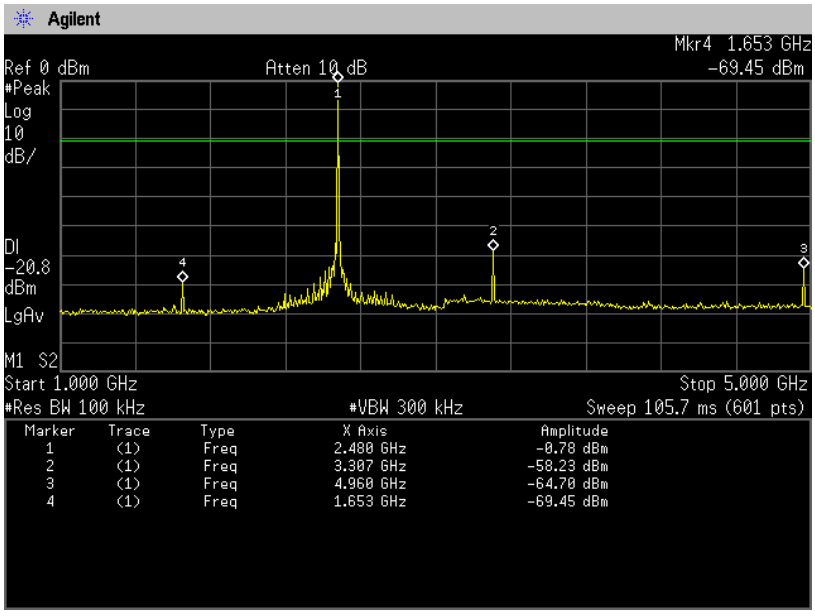

Agilent
Mkr1 7.208 GHz
Ref 0 dBm
Atten 10 dB
-62.83 dBm
#Peak
Log
10
dB/
Dl
-20.6
dBm
LgAv
M1 S2
Start 5.000 GHz
Stop 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 132.1 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 7.208 GHz -62.83 dBm

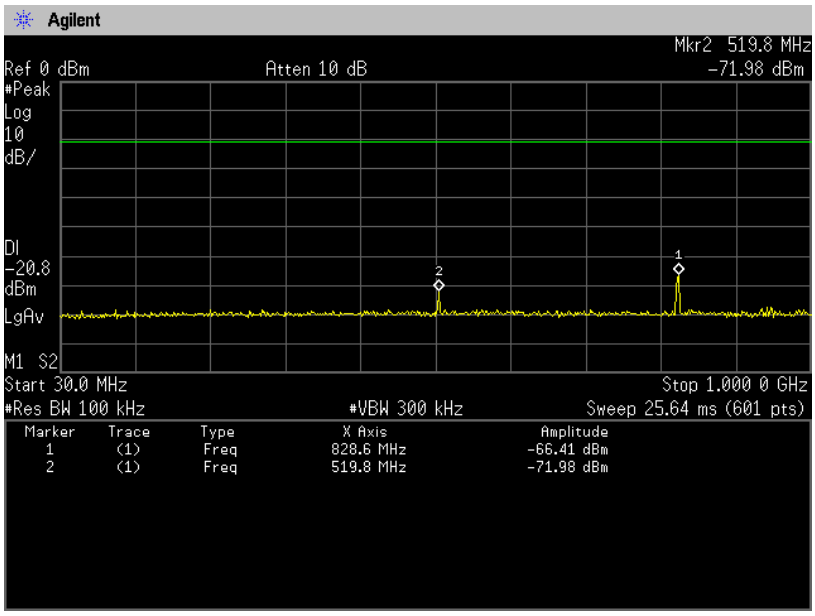

Agilent
Mkr1 13.917 GHz
Ref 0 dBm
Atten 10 dB
-70.02 dBm
#Peak
Log
10
dB/
Dl
-20.6
dBm
LgAv
M1 S2
Start 10.000 GHz
Stop 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 132.1 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 13.917 GHz -70.02 dBm

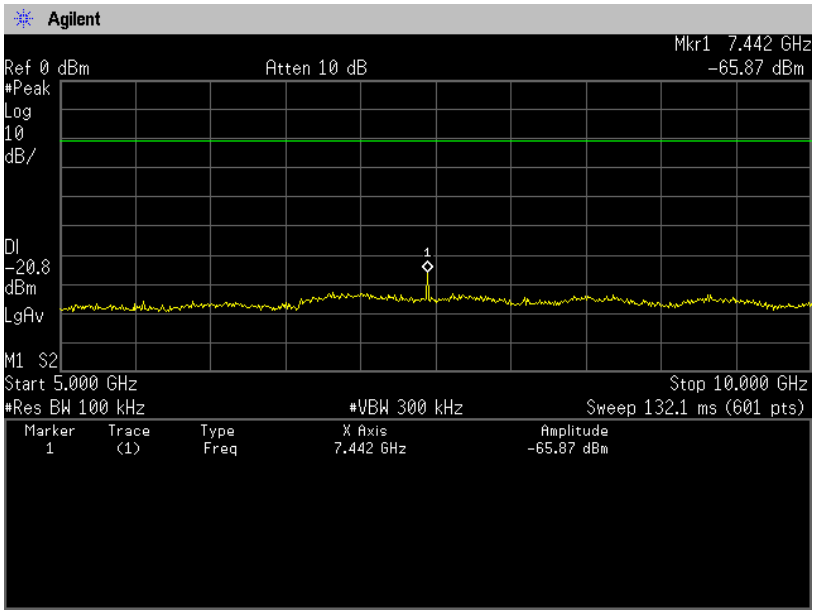

Agilent
Mkr1 15.233 GHz
Ref 0 dBm
Atten 10 dB
-70.40 dBm
#Peak
Log
10
dB/
Dl
-20.6
dBm
LgAv
M1 S2
Start 15.000 GHz
Stop 20.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 132.1 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 15.233 GHz -70.40 dBm

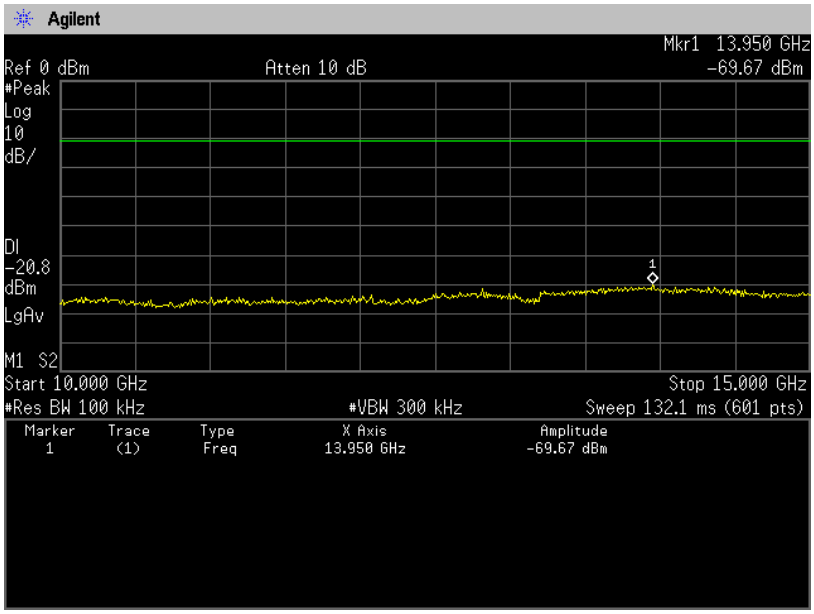


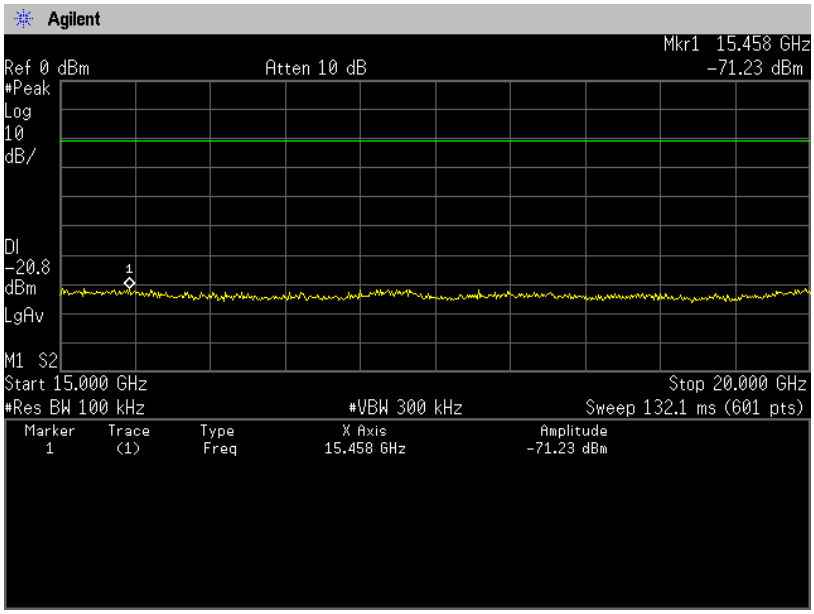
CH79:2480MHz

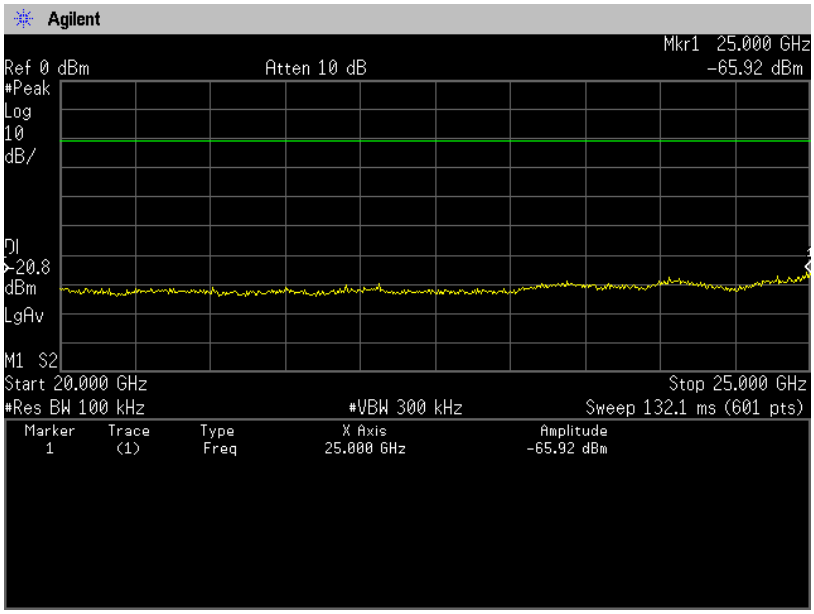



Agilent
Mkr2 519.8 MHz
Ref 0 dBm
Atten 10 dB
-71.98 dBm
#Peak
Log
10
dB/
Dl
-20.8
dBm
LgAv
M1 S2
Start 30.0 MHz
Stop 1.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 25.64 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 828.6 MHz -66.41 dBm
2 (1) Freq 519.8 MHz -71.98 dBm


Agilent
Mkr1 7.442 GHz
Ref 0 dBm
Atten 10 dB
-65.87 dBm
#Peak
Log
10
dB/
Dl
-20.8
dBm
LgAv
M1 S2
Start 5.000 GHz
Stop 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 132.1 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 7.442 GHz -65.87 dBm


Agilent
Mkr1 13.950 GHz
Ref 0 dBm
Atten 10 dB
-69.67 dBm
#Peak
Log
10
dB/
Dl
-20.8
dBm
LgAv
M1 S2
Start 10.000 GHz
Stop 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 132.1 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 13.950 GHz -69.67 dBm


Agilent
Mkr1 15.458 GHz
Ref 0 dBm
Atten 10 dB
-71.23 dBm
#Peak
Log
10
dB/
Dl
-20.8
dBm
LgAv
M1 S2
Start 15.000 GHz
Stop 20.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 132.1 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 15.458 GHz -71.23 dBm


Agilent
Mkr1 25.000 GHz
Ref 0 dBm
Atten 10 dB
-65.92 dBm
#Peak
Log
10
dB/
Dl
-20.8
dBm
LgAv
M1 S2
Start 20.000 GHz
Stop 25.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 132.1 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 25.000 GHz -65.92 dBm

4.8. Band Edge

4.7.1. Test limits

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

4.7.2. Test procedure

1. The EUT was placed on a turntable which is 0.8m above ground plane.

2.Connect EUT RF output port to the spectrum analyzer through an RF attenuator.

3. Set the EUT work on the CH1, CH79individually.

4. Set SPA Frequency = Operation frequency, for PK: RBW =300kHz, VBW≧RBW

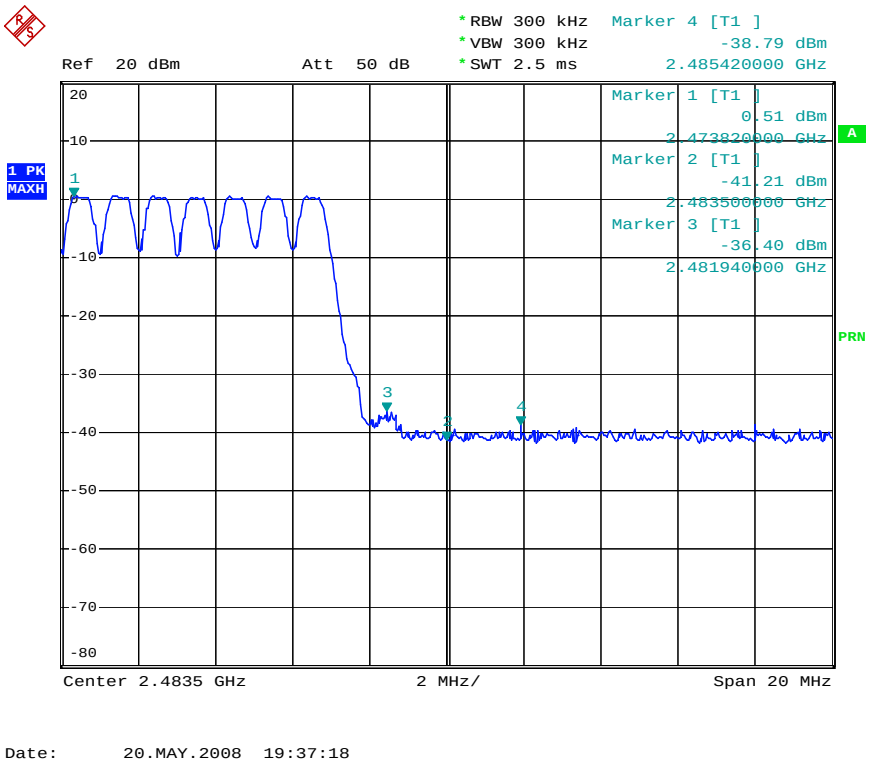
5. Set SPA trace max hold, then view.

4.7.3. Test result

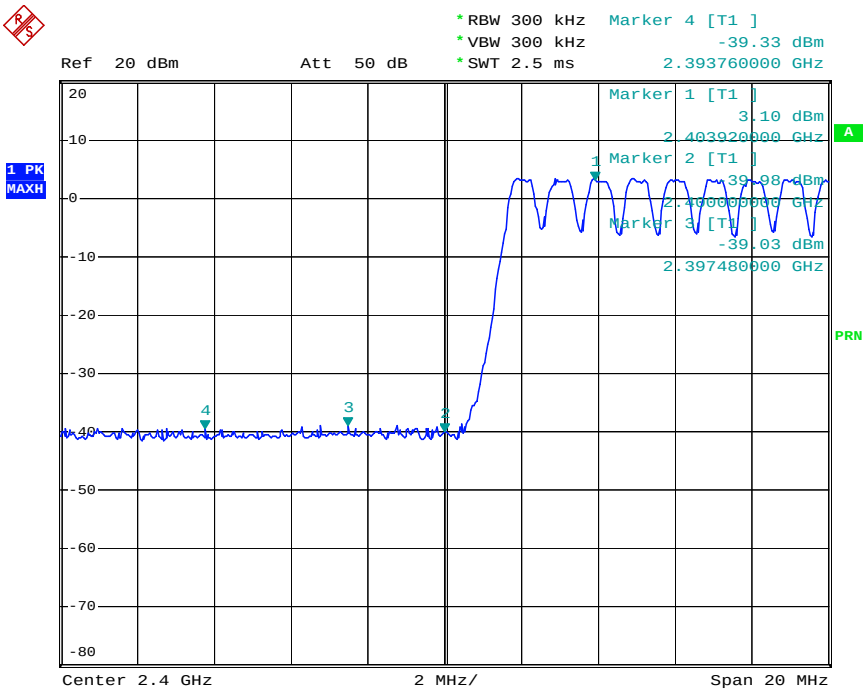
PASS.

The test plots as following:

Test CH1: 2480MHz



Test CH79 2402MHz



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