APPLICATION FOR CERTIFICATION
On Behalf of

Philips Consumer Lifestyle

Digital Audio Player

Model Number	Brand Name
SA529XBT/YY	PHILIPS

Test Model NO.: SA5295BT/37

FCC ID: BOUSA5295BT

Prepared for : Philips Consumer Lifestyle
3029 East Governor John Sevier Hwy, Knoxville, TN
37914 United States

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

Tel: (0755) 26639496

Report Number : ACS-F08401
Date of Test : Sep.16~20, 2008
Date of Report : Sep.23, 2008

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Deutscher Akkreditierungs Rat DAR

Reg. No.: DAT-P-091/99-01

TEST REPORT CERTIFICATION

Applicant	:	Philips Consumer Lifestyle
Factory (1)	:	Success Bright Industries -Goodview
Factory (2)	:	Shenzhen Sang Fei Consumer Communications Co., Ltd
Factory (3)	:	Philips Ltd. Assembly Centre Hungary (PACH)
EUT Description	:	Digital Audio Player
FCC ID	:	BOUSA5295BT

(A) MODEL NO. & BRAND NAME :

Model Number	Brand Name
SA529XBT/YY	PHILIPS

(B) TEST MODEL NO. : SA5295BT/37

(C) POWER SUPPLY : DC 3.7V, DC 5V From USB

(D) TEST VOLTAGE : DC 5V Form USB AC 120V/60Hz

Test Procedure Used:
FCC Rules and Regulations Part 15 Subpart C 2007

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions.
The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

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

Date of Test: Sep.16~20, 2008

Prepared by: YoYo Wang
YoYo Wang / Assistant

Reviewer: Jamy Yu / Senior Engineer

AUDIX Audix Technology (Shenzhen) Co., Ltd.
EMC 專用報告專用章
Stamp only for EMC Dept. Report
Signature:

Approved & Authorized Signer:
Ken Lu / Deputy Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

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

EMISSION		
Description of Test Item	**Standard**	**Results**
Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.4: 2003 DA 00-705	PASS
Radiated Emission Test	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.4: 2003 DA 00-705	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) DA 00-705	PASS
20 dB Bandwidth Test	FCC Part 15: 15.247(a)(1) DA 00-705	PASS
Number Of Hopping Frequency Test	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Dwell Time Test	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Maximum Peak Output Power Test	FCC Part 15: 15.247(b)(1) DA 00-705	PASS
Band Edge Compliance Test	FCC Part 15: 15.247(d) DA 00-705	PASS
MPE ESTIMATION	FCC Part 2: 2.1093	PASS

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Description : Digital Audio Player
This product is a Digital Audio Player with Bluetooth function, and it can transmit music to other Bluetooth Receiver. For detail information please see the user manual of this product.

Model Number & Brand Name :

Model Number	Brand Name
SA529XBT/YY	PHILIPS

The "X" used in the series models SA529XBT/YY represents 0 to 9. "X"="0", The model without FM tuner feature, "X"= "1-9", The model with FM tuner feature. BT donates for Bluetooth function.
All models included in this series models are identical in electrical, mechanical and physical, constructions except with different accessory and packaging used and colour of cosmetic. The marking artwork of all models included in these series model are exactly identical except with different model number and various safety marking.

Except the following(s) :	Stroke number, Packaging and memory size are differences /YY
	/07 denote sales for U.S.A. and the packaging in Blister type /17 denote sales for Canada and the packaging in Blister type /37 denote sales for USA and Canada and the packaging in Blister type
Memory Size 2GB:	SA522XBT/YY, X may be 0 to 9
Memory Size 4GB:	SA524XBT/YY, X may be 0 to 9
Memory Size 8GB:	SA528XBT/YY, X may be 0 to 9
Memory Size 16GB:	SA529XBT/YY, X may be 0 to 9
Note: For 2GB, 4GB, 8GB versions have been tested under FCC ID: BOUSA5225BT, FCC ID: BOUSA5245BT, FCC ID: BOUSA5285BT.	

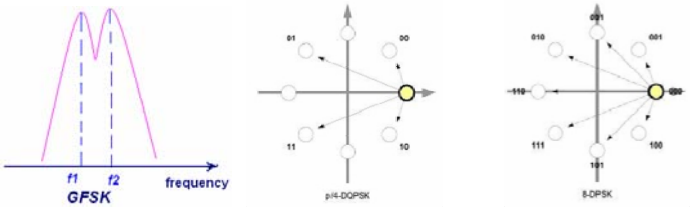
Remarks: All series model do not by-back with the AC-DC adaptor. And all models of plastic painting color (non-conductive painting)
Test Model No. SA5295BT/37

FCC ID : BOUSA5295BT

Operation frequency : 2.402GHz-----2.480GHz

Operation Channel : 79Channels

Radio Technology : Bluetooth V1.2 and EDR

Antenna Assembly Gain	:	1.7dBi(maximum)
Modulation Technology	:	GFSK, π/4 DQPSK,8- DPSK  Note: As above indicated GFSK is different from π/4DQPSK and 8- DPSK. and 8-DPSK is similar with π/4DQPSK but more complex, and with the bigger data rate. So all the test were performed with GFSK modulation and 8-DPSK modulation.
Power Supply	:	Battery 3.7V or DC 5V form PC USB port, and the worst case is DC 5V Form computer USB port in exploratory measurements, So all the final test data below were only DC 5V recorded.
Applicant	:	Philips Consumer Lifestyle 3029 East Governor John Sevier Hwy, Knoxville, TN 37914 United States
Factory (1)		Success Bright Industries -Goodview Dong Huan Road Central, San Yi Cun, Sha Jing Zhen, ShenZhen, China
Factory (2)		Shenzhen Sang Fei Consumer Communications Co., Ltd 11 Science and Technology Road, ShenZhen Hi-tech Industrial Park, Nanshan District, ShenZhen, PRC
Factory (3)		Philips Ltd. Assembly Centre Hungary (PACH) Szekesfehervar Holland fasor 6. H-8000 Hungary
Earphone	:	PHILIPS, M/N: AY3817
USB Cable	:	Unshielded, Detachable, 1.5m
Date of Test	:	Sep.16~20, 2008
Date of Receipt	:	Sep.03, 2008
Sample Type	:	Series Production

2.2.Tested Supporting System Details

2.2.1.NOTEBOOK

M/N	:	PP09S
S/N	:	N/A
Manufacturer	:	DELL
Power Adaptor	:	Manufacturer: DELL, M/N: LA65NS1-00 Cable: Unshielded, Detachabled, 4.0m (Bond one ferrite core)

2.2.2.RS232 Cable : Unshielded, Detachable,1.5m

2.3.Test Facility

Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park,Nantou, Shenzhen, Guangdong, China
3m Anechoic Chamber	:	Jun. 13, 2006 File on Federal Communication Commission Registration Number: 90454
3m & 10m Anechoic Chamber	:	Jan. 31, 2007 File on Federal Communication Commission Registration Number: 794232
EMC Lab.	:	Accredited by DATech, German Registration Number: DAT-P-091/99-01 Dec. 20, 2007 Accredited by NVLAP, USA NVLAP Code: 200372-0 Apr. 01, 2008

2.4.Measurement Uncertainty

No.	Item	MU	Remark
1	Uncertainty for Conducted Emission Test	2.02dB	
2	Uncertainty for Radiated Emission Test<1GHz	3.44 dB	Polarize: V
		3.96 dB	Polarize: H
3.	Uncertainty for Radiated Emission Test>1GHz	4.79dB	
4.	Uncertainty for Frequency measure	$0.42*10^{-6}$	
5.	Uncertainty for conducted power measure	0.112	

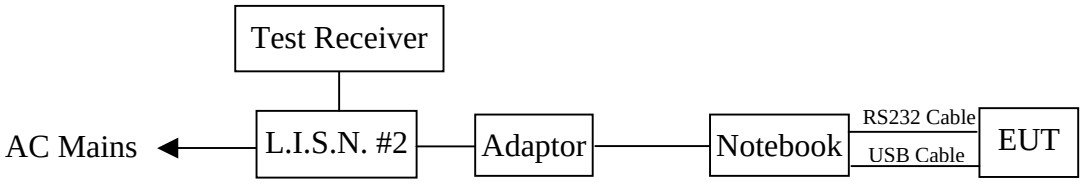
3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Dec.19, 07	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May 10,08	1 Year
3.	Terminator	Hubersuhner	50Ω	No. 1	May 10,08	1 Year
4.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	Jul.08, 08	1/2 Year
5.	Coaxial Switch	Anritsu	MP59B	M55367	Jul.08, 08	1/2 Year
6.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Jul.08, 08	1/2 Year

3.2.Block Diagram of Test Setup

3.2.1.Block diagram of connection between the EUT and simulators



(EUT: Digital Audio Player)

3.3.Power Line Conducted Emission Test Limits

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

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

3.4.Configuration of EUT on Test

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

3.4.1.Digital Audio Player (EUT)

Model Number : SA529XBT/YY
Serial Number : N/A

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

3.5.Operating Condition of EUT

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

3.5.2.Turned on the power of all equipment.

3.5.3.Let the EUT worked in test mode (TX) and measured it.

3.6.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). Please refer the block diagram of the test setup and photographs. Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC Part 15C on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

The test results are reported on Section 3.7.

3.7.Power Line Conducted Emission Test Results

PASS.

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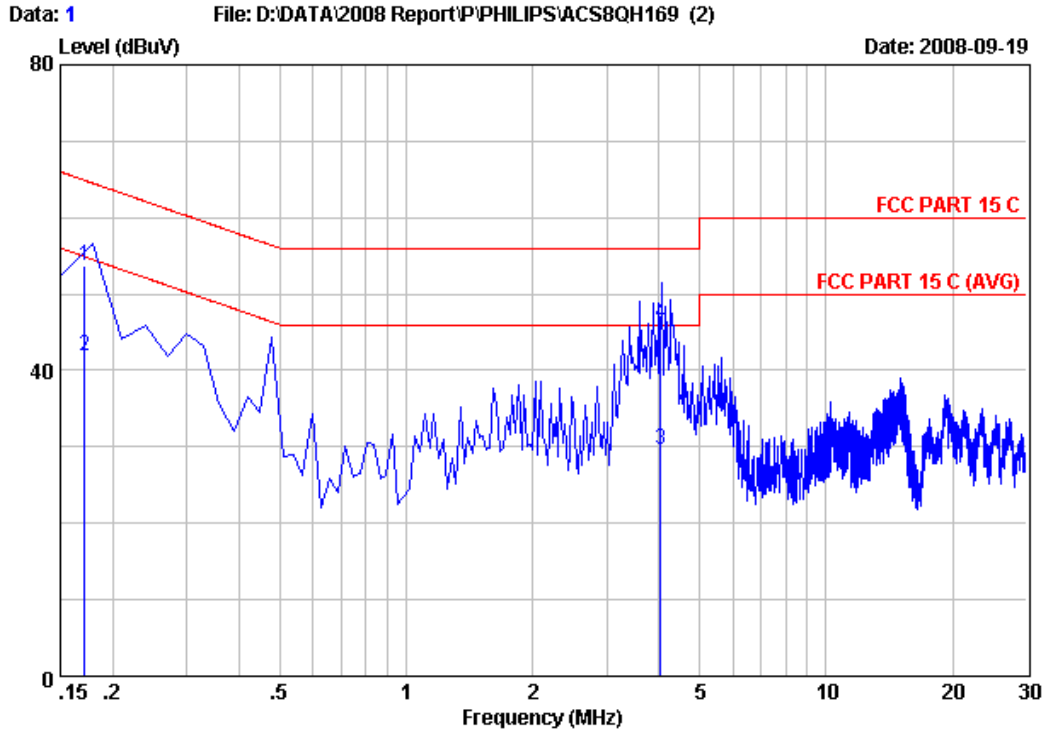

Site no :Audix No.1 Conduction Data no :1
Dis./Ant. :-- KNW407 1# VA LISN phase:
Limit :FCC PART 15 C
Env./Ins. :Temp:23' Humi:54% ESHS10 Engineer :PACK
EUT :Digital Audio Player M/N:SA529XBT
Power Rating :DC 5V From PC AC 120V/60Hz
Test Mode :Tx Mode
Memo :

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	0.28	10.15	43.30	53.73	64.91	11.18	QP
2	0.17	0.28	10.15	31.40	41.83	54.91	13.08	Average
3	4.04	0.10	10.18	19.40	29.68	46.00	16.32	Average
4	4.04	0.10	10.18	35.80	46.08	56.00	9.92	QP

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

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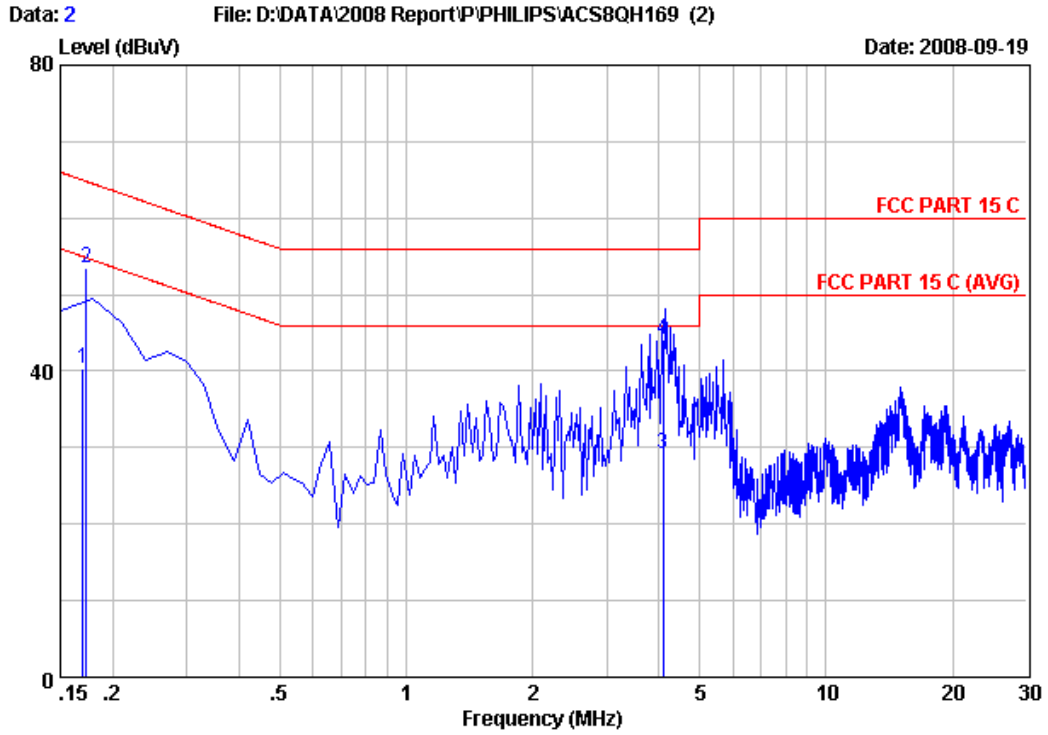


Site no :Audix No.1 Conduction Data no :2
Dis./Ant. :-- KNW407 1# VB LISN phase:
Limit :FCC PART 15 C
Env./Ins. :Temp:23' Humi:54% ESHS10 Engineer :PACK
EUT :Digital Audio Player M/N:SA529XBT
Power Rating :DC 5V From PC AC 120V/60Hz
Test Mode :Tx Mode
Memo :

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	0.18	10.15	30.10	40.43	54.96	14.53	Average
2	0.17	0.17	10.15	43.20	53.52	64.82	11.30	QP
3	4.09	0.04	10.18	19.00	29.22	46.00	16.78	Average
4	4.09	0.04	10.18	34.00	44.22	56.00	11.78	QP

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

4. RADIATED EMISSION TEST

4.1.Test Equipment

Frequency rang: 30~1000MHz

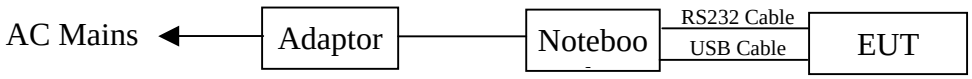
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Jun.09, 08	1/2 Year
2.	EMI Spectrum	Agilent	E7403A	MY42000106	May 10, 08	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May 10, 08	1 Year
4.	Amplifier	HP	8447D	2648A04738	Jul.08.08	1/2 Year
5.	Bilog Antenna	Schaffner	CBL6112D	25237	Feb.21, 08	1 Year
6.	RF Cable	JINGCHENG	KLMR400	3# Chamber No.1	Jul.08.08	1/2 Year
7.	RF Cable	JINGCHENG	JBY400	3# Chamber No.2	Jul.08.08	1/2 Year
8.	RF Cable	JINGCHENG	JBY400	3# Chamber No.3	Jul.08.08	1/2 Year
9.	RF Cable	JINGCHENG	JBY400	3# Chamber No.4	Jul.08.08	1/2 Year
10.	Coaxial Switch	Anritsu	MP59B	M73989	Jul.08.08	1/2 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	MY41440292	May 10, 08	1 Year
2.	Amp	HP	8449B	3008A00863	May 10, 08	1 Year
3.	Antenna	EMCO	3115	9607-4877	May 27, 08	1.5 Year
4	Antenna	EMCO	3116	00060088	May 28, 07	1.5Year
5.	HF Cable	Hubersuhne	Sucoflex104	-	May 10, 08	1 Year

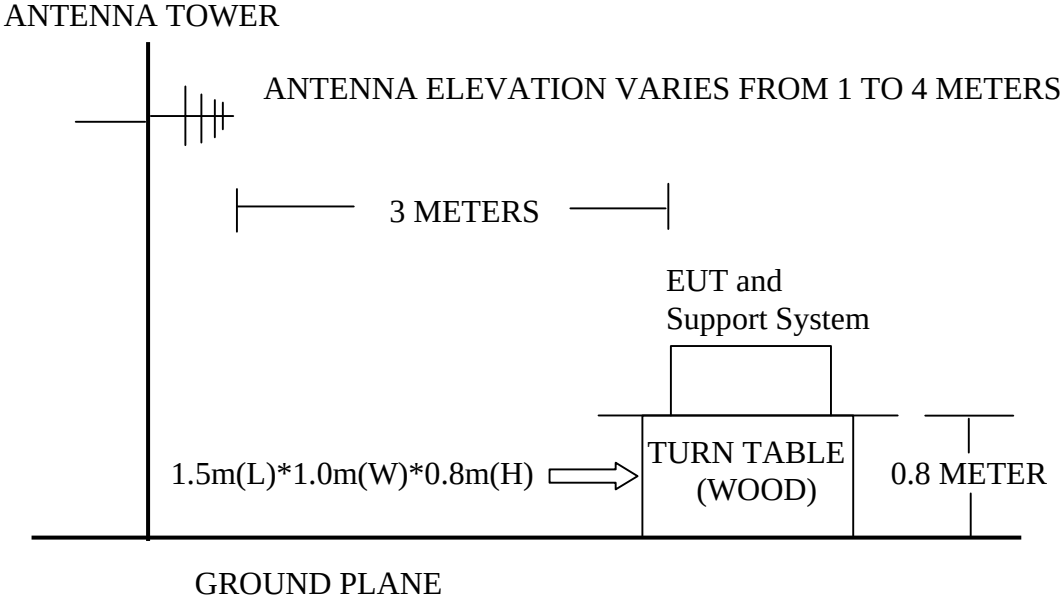
4.2.Block Diagram of Test Setup

4.2.1.Block diagram of connection between the EUT and simulators



(EUT: Digital Audio Player)

4.2.2.In Anechoic Chamber



4.3.Radiated Emission Limit

4.3.1.15.209 limits

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)	

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

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

4.3.2. 15.205 Restricted bands of operation

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])

All the emissions appearing within these 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.

4.4.EUT Configuration on Test

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

4.4.1.Digital Audio Player (EUT)

Model Number : SA529XBT/YY
Serial Number : N/A

4.4.2.Support Equipment : As Tested Supporting System Detail, in Section 2.2.

4.5.Operating Condition of EUT

4.5.1.Setup the EUT as shown in Section 4.2.

4.5.2.Turned on the power of all equipment.

4.5.3.Let the EUT worked in test mode (TX) and tested it.

4.6.Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it work normally, we use a keyboard test soft ware, let EUT 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. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position and all the final test data below were recoded in X position.

The bandwidth of the test receiver (R&S ESVS20) 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 10^{th} harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7. Radiated Emission Test Results

PASS.

All the emissions from 30MHz to 25 GHz are comply with 15.209 limits

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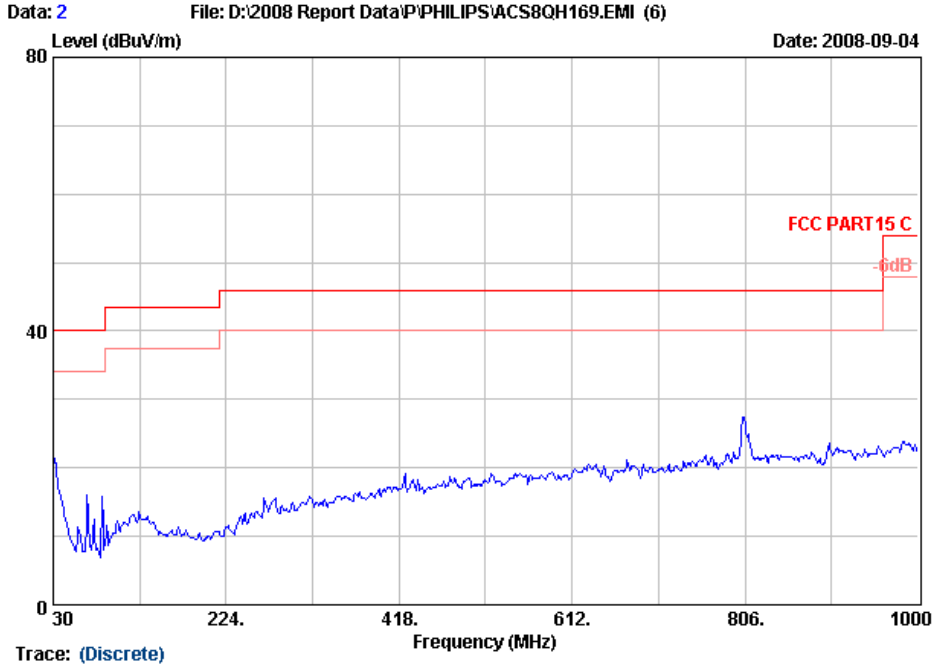
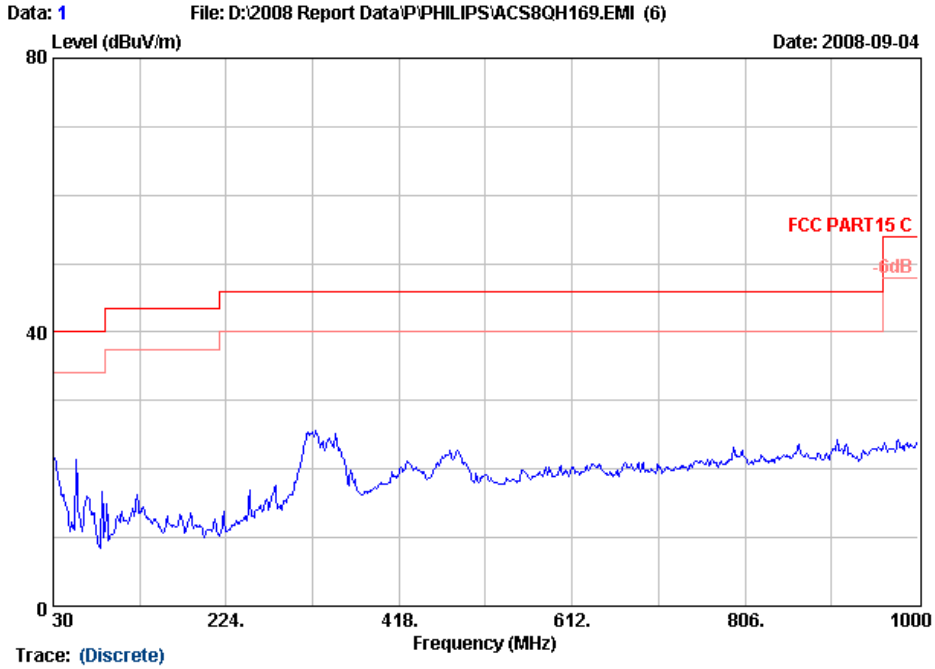


Trace: (Discrete)

```
Site no.      : 3# Chamber Radiation        Data no.   : 2
Dis. / Ant.   : 3m   CBL6112D               Ant. pol.  : HORIZONTAL
Limit         : FCC PART15 C
Env. / Ins.   : 24*C/56%   ESVS20           Engineer   :  Leidy
EUT           : Digital Audio Player M/N:SA529xBT
Power Rating  : DC 5V
Test Mode     : Tx Mode
```



Trace: (Discrete)

```
Site no.      : 3# Chamber Radiation        Data no.   : 1
Dis. / Ant.   : 3m   CBL6112D               Ant. pol.  : VERTICAL
Limit         : FCC PART15 C
Env. / Ins.   : 24*C/56%   ESVS20           Engineer   :  Leidy
EUT           : Digital Audio Player M/N:SA529xBT
Power Rating  : DC 5V
Test Mode     : Tx Mode
```

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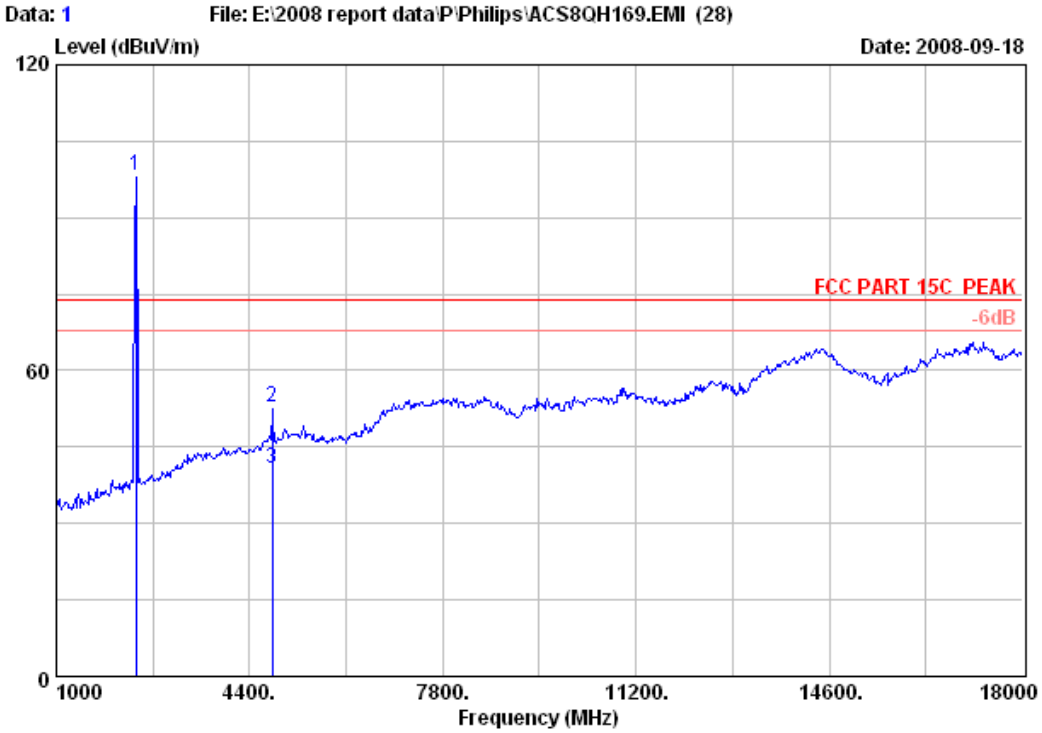

Site no. : 3# Chamber Data no. : 1
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : GFSK Tx 2402MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.46	6.73	35.18	98.27	98.28	74.00	-24.28	Peak
2	4804.00	34.36	10.53	34.50	42.36	52.75	74.00	21.25	Peak
3	4804.00	34.36	10.53	34.50	30.42	40.81	54.00	13.19	Average

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

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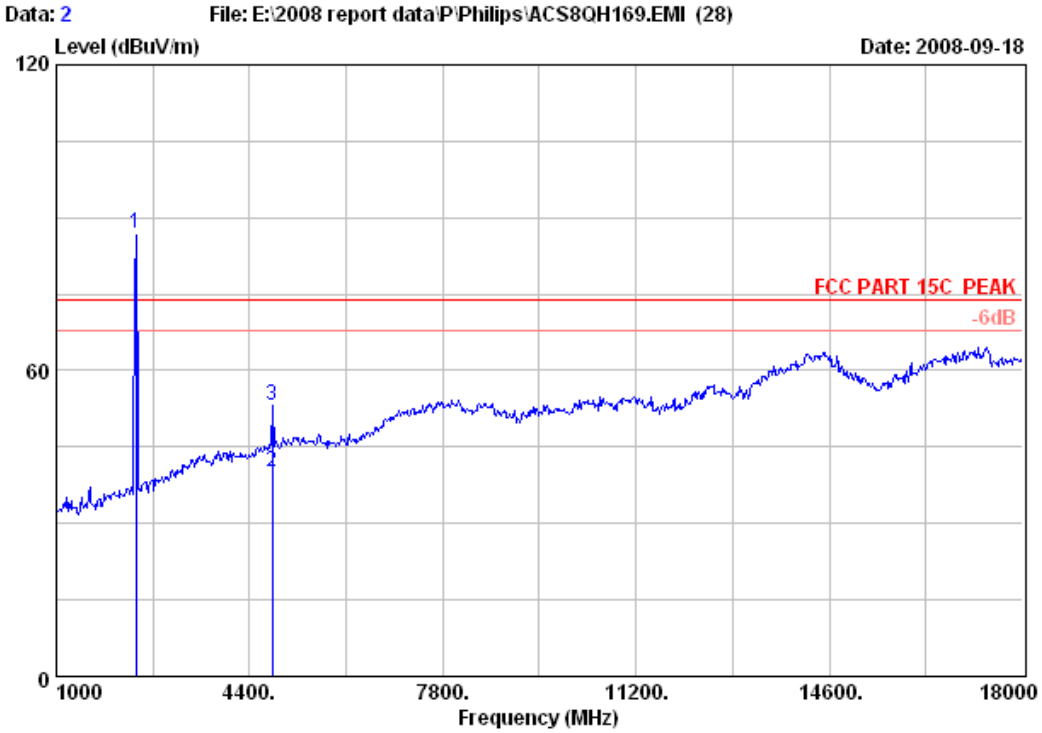

Site no. : 3# Chamber Data no. : 2
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : GFSK Tx 2402MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.46	6.73	35.18	86.94	86.95	74.00	-12.95	Peak
2	4804.00	34.36	10.53	34.50	29.86	40.25	54.00	13.75	Average
3	4804.00	34.36	10.53	34.50	42.82	53.21	74.00	20.79	Peak

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

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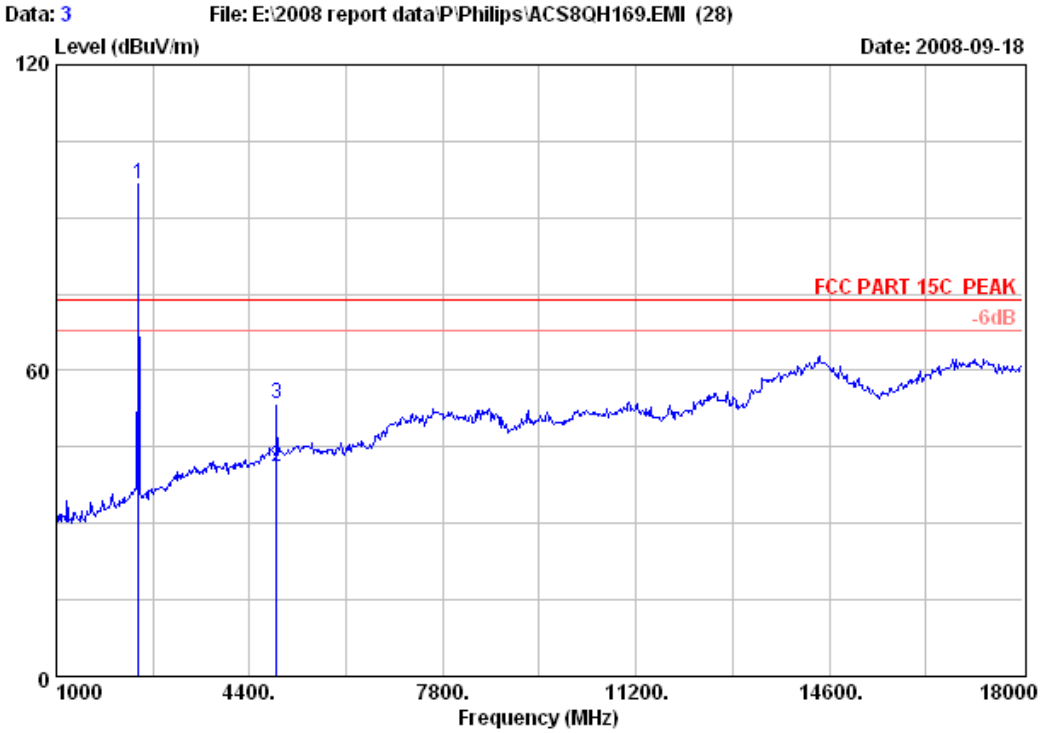
Postcode:518057



Site no. : 3# Chamber Data no. : 3
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : GFSK Tx 2441MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.53	6.80	35.17	96.44	96.60	74.00	-22.60	Peak
2	4882.00	34.78	10.57	34.48	30.26	41.13	54.00	12.87	Average
3	4882.00	34.78	10.57	34.48	42.51	53.38	74.00	20.62	Peak

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

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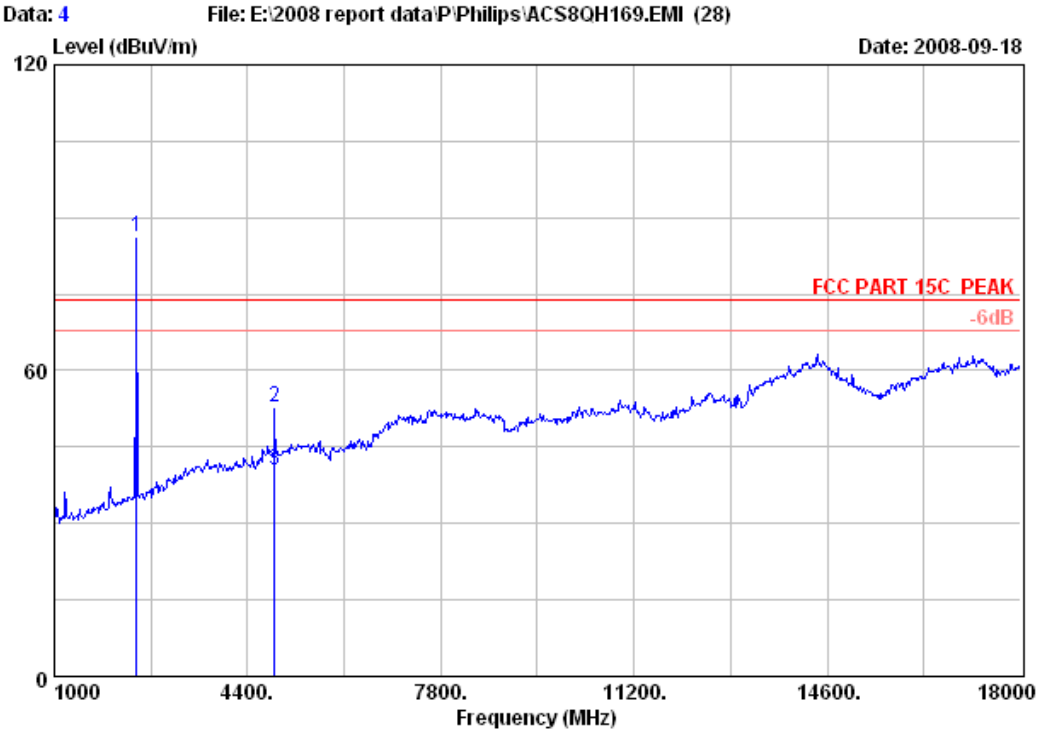

Site no. : 3# Chamber Data no. : 4
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : GFSK Tx 2441MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.53	6.80	35.17	86.15	86.31	74.00	-12.31	Peak
2	4882.00	34.78	10.57	34.48	41.99	52.86	74.00	21.14	Peak
3	4882.00	34.78	10.57	34.48	29.67	40.54	54.00	13.46	Average

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

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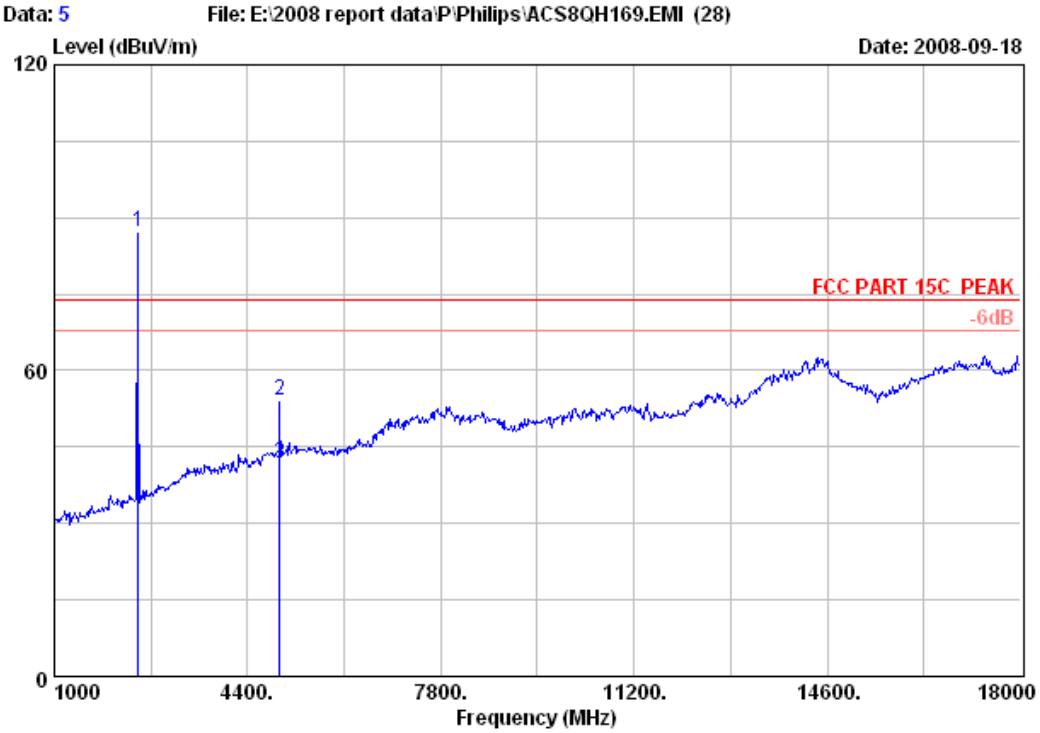

Site no. : 3# Chamber Data no. : 5
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : GFSK Tx 2480MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.58	6.87	35.16	87.02	87.31	74.00	-13.31	Peak
2	4960.00	35.29	10.59	34.46	42.74	54.16	74.00	19.84	Peak
3	4960.00	35.29	10.59	34.46	30.42	41.84	54.00	12.16	Average

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

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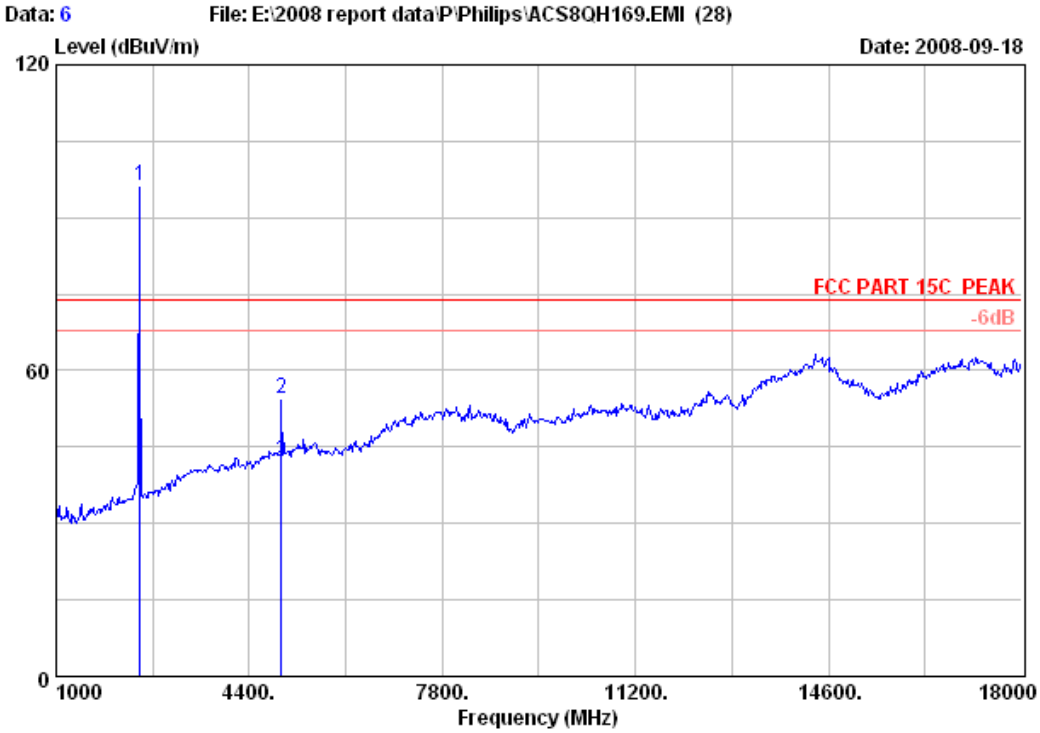

Site no. : 3# Chamber Data no. : 6
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : GFSK Tx 2480MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.58	6.87	35.16	95.89	96.18	74.00	-22.18	Peak
2	4960.00	35.29	10.59	34.46	43.06	54.48	74.00	19.52	Peak
3	4960.00	35.29	10.59	34.46	30.57	41.99	54.00	12.01	Average

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

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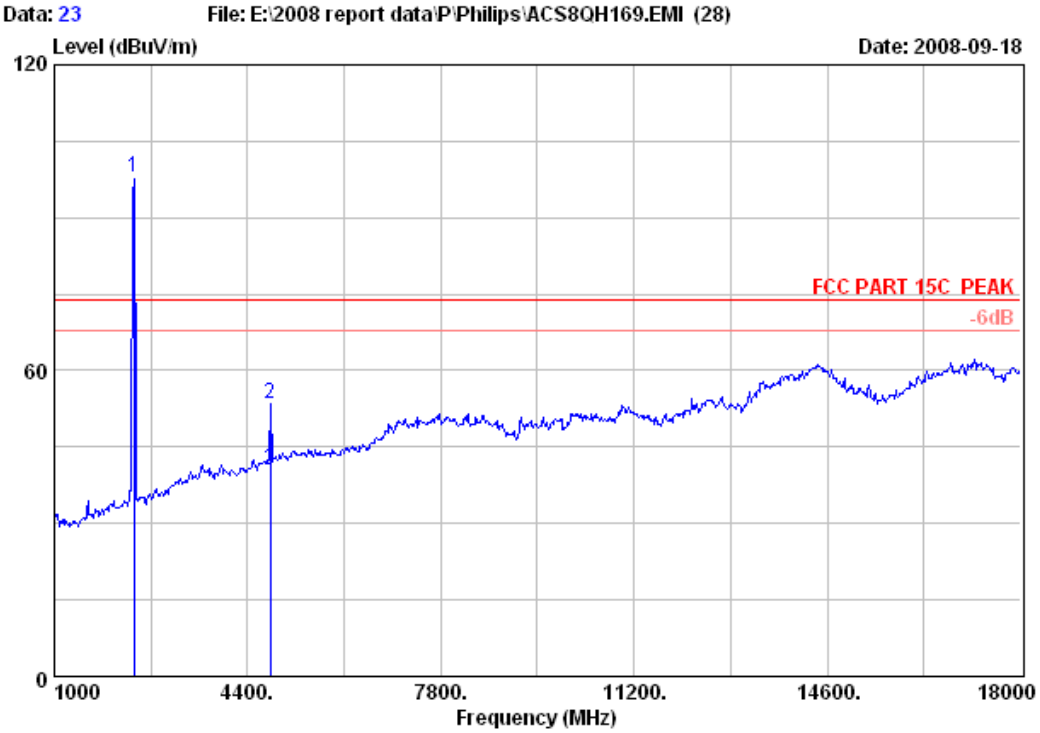

Site no. : 3# Chamber Data no. : 23
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : 8-DPSK Tx 2402MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.46	6.73	35.18	97.88	97.89	74.00	-23.89	Peak
2	4804.00	34.36	10.53	34.50	43.06	53.45	74.00	20.55	Peak
3	4804.00	34.36	10.53	34.50	30.19	40.58	54.00	13.42	Average

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

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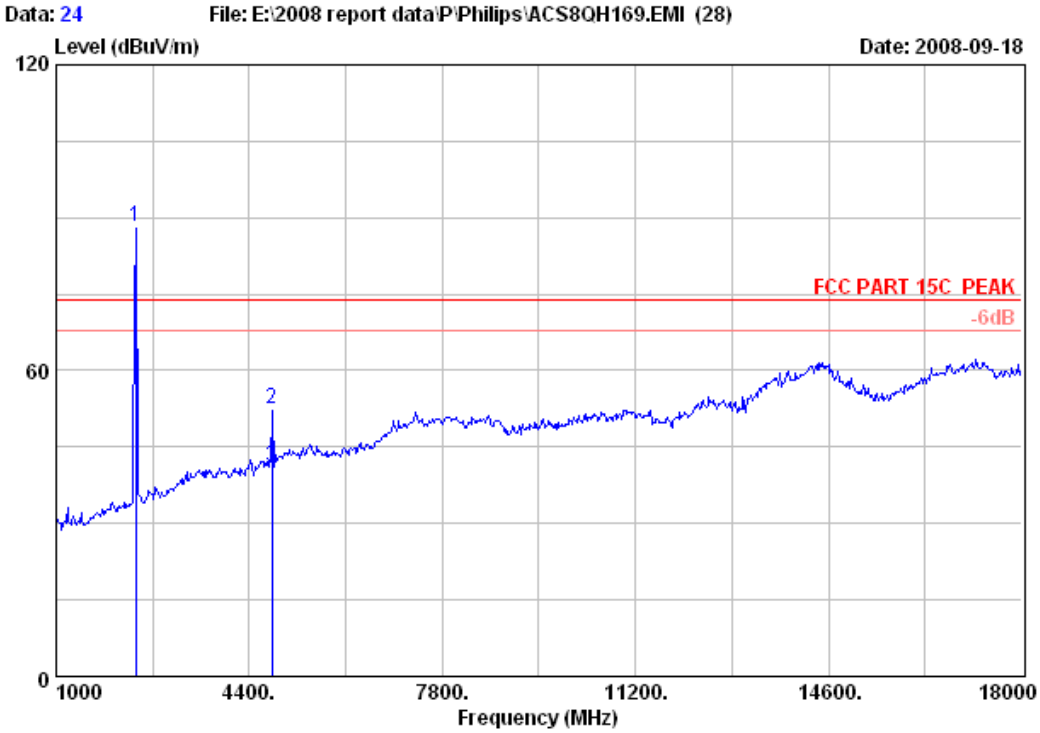

Site no. : 3# Chamber Data no. : 24
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : 8-DPSK Tx 2402MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.46	6.73	35.18	88.27	88.28	74.00	-14.28	Peak
2	4804.00	34.36	10.53	34.50	42.19	52.58	74.00	21.42	Peak
3	4804.00	34.36	10.53	34.50	30.59	40.98	54.00	13.02	Average

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

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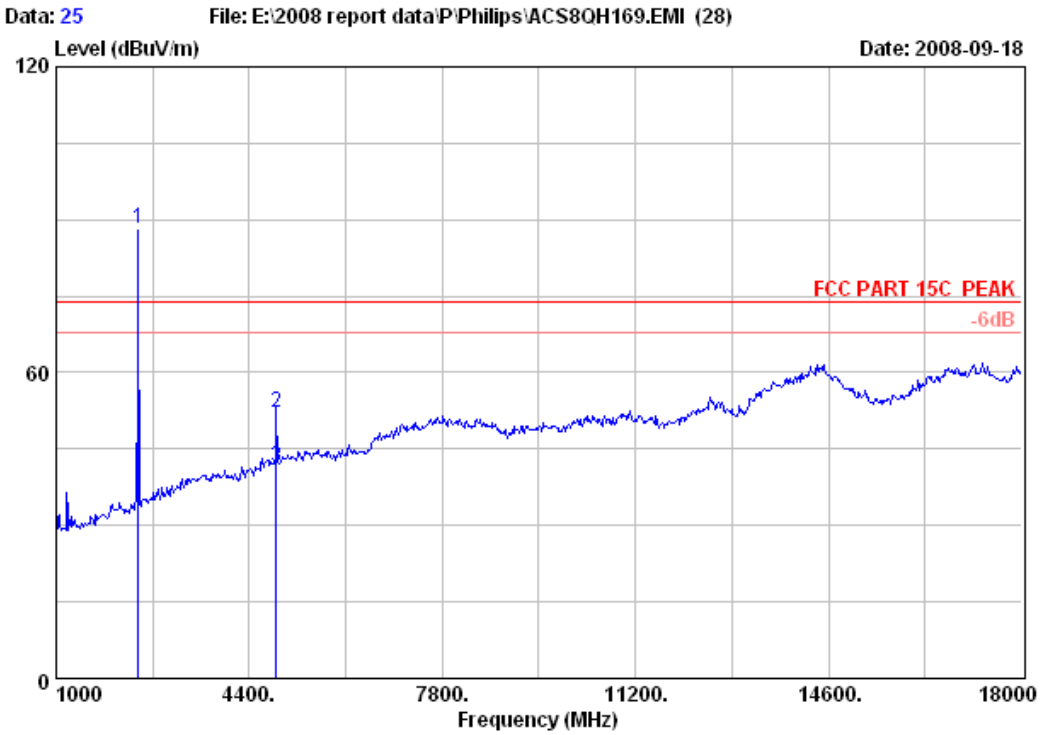

Site no. : 3# Chamber Data no. : 25
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : 8-DPSK Tx 2441MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.53	6.80	35.17	87.98	88.14	74.00	-14.14	Peak
2	4882.00	34.78	10.57	34.48	41.42	52.29	74.00	21.71	Peak
3	4882.00	34.78	10.57	34.48	30.45	41.32	54.00	12.68	Average

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

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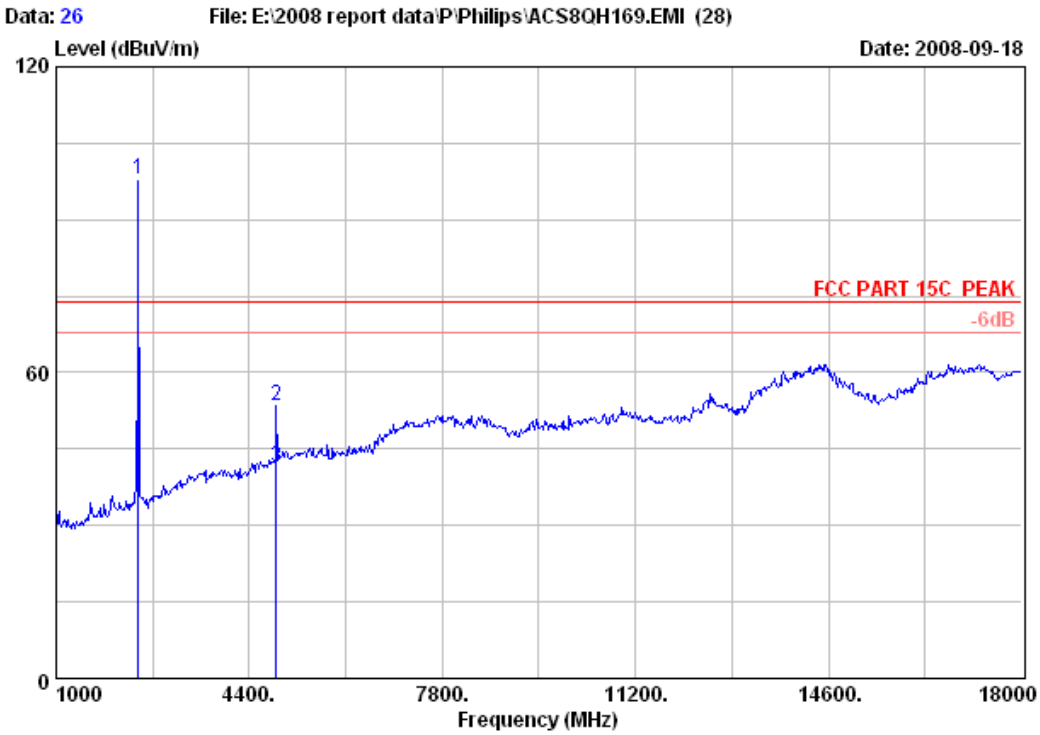

Site no. : 3# Chamber Data no. : 26
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : 8-DPSK Tx 2441MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.53	6.80	35.17	97.72	97.88	74.00	-23.88	Peak
2	4882.00	34.78	10.57	34.48	42.50	53.37	74.00	20.63	Peak
3	4882.00	34.78	10.57	34.48	30.51	41.38	54.00	12.62	Average

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

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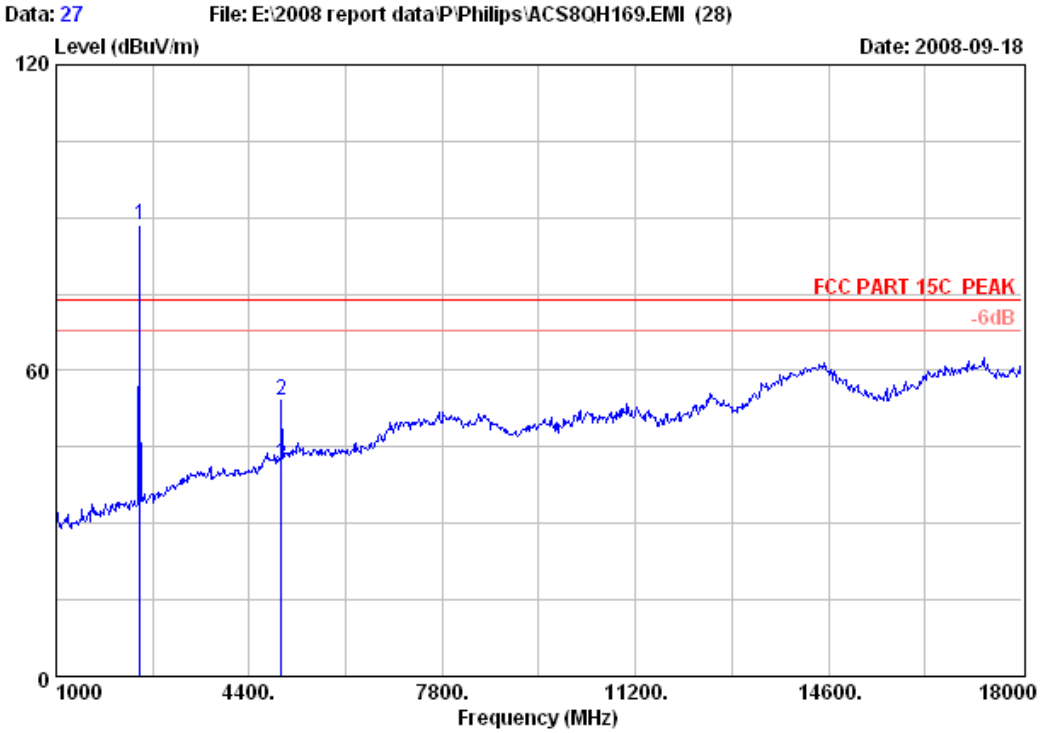

Site no. : 3# Chamber Data no. : 27
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : 8-DPSK Tx 2480MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.58	6.87	35.16	88.18	88.47	74.00	-14.47	Peak
2	4960.00	35.29	10.59	34.46	42.61	54.03	74.00	19.97	Peak
3	4960.00	35.29	10.59	34.46	30.11	41.53	54.00	12.47	Average

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

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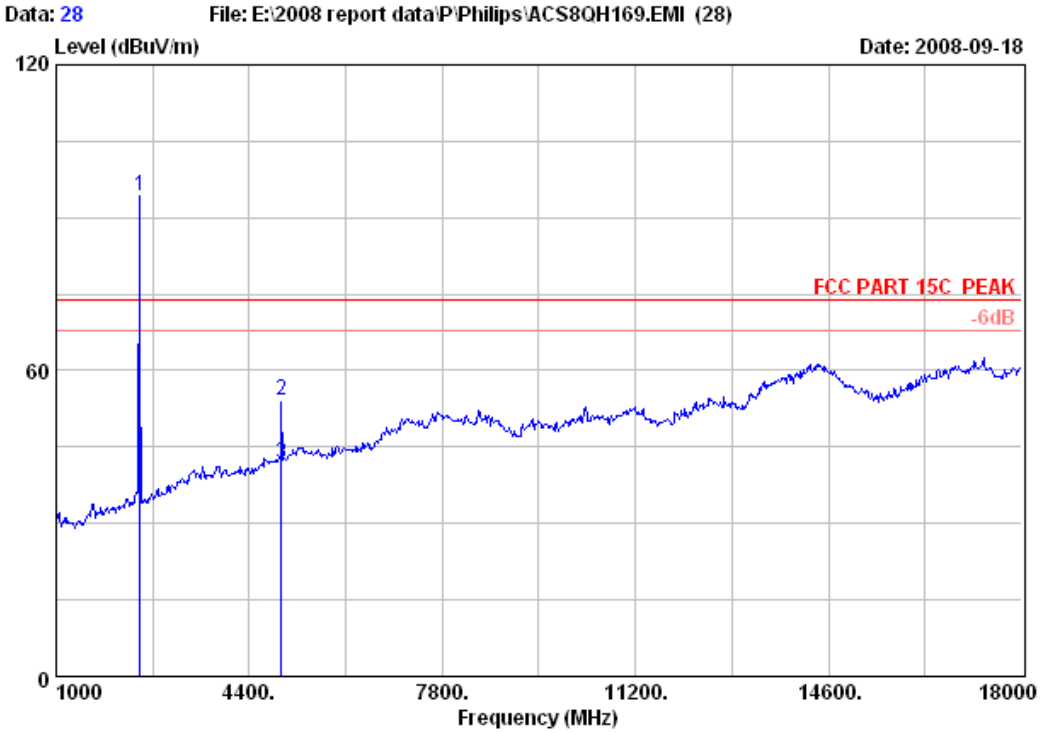


Site no. : 3# Chamber Data no. : 28
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : 8-DPSK Tx 2480MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.58	6.87	35.16	94.00	94.29	74.00	-20.29	Peak
2	4960.00	35.29	10.59	34.46	42.67	54.09	74.00	19.91	Peak
3	4960.00	35.29	10.59	34.46	30.26	41.68	54.00	12.32	Average

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

5. CARRIER FREQUENCY SEPARATION TEST

5.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.10, 08	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May.27, 08	1.5 Year
3	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May.28, 08	1Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May.28, 08	1 Year

5.2.Test Information

EUT:	Digital Audio Player
M/N:	SA529XBT/YY
Test Date:	Sep.20, 2008
Ambient Temperature:	23℃
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247(a)(1)
Test mode:	GFSK/8-DPSK (Hopping on)
Test By:	Power feng

5.3.Limit

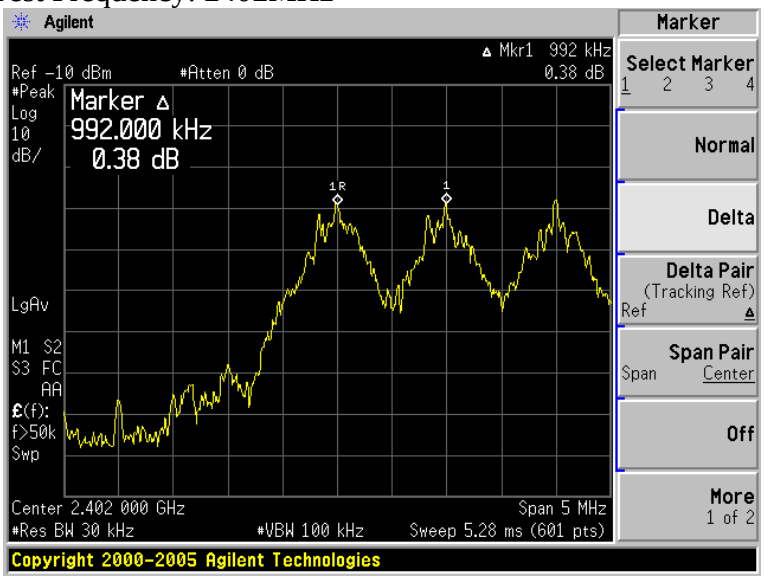
Frequency hopping systems shall have hopping channel carrier frequency separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater.

5.4.Test Results

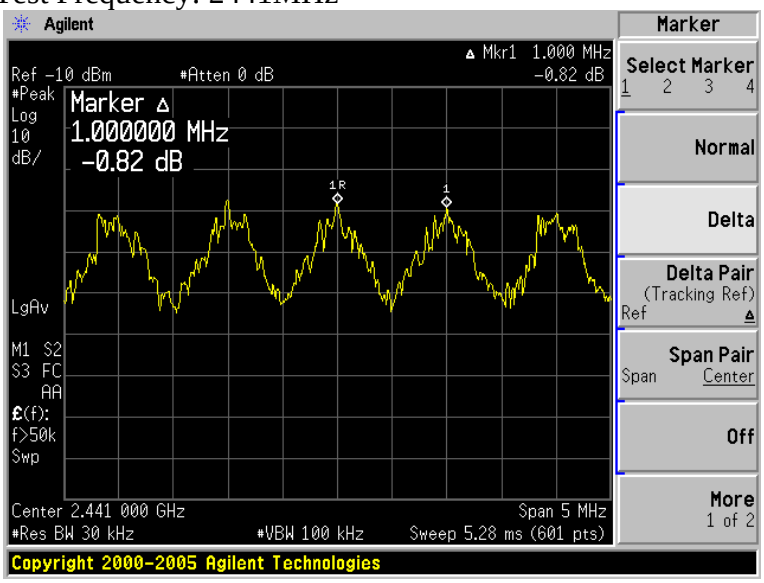
Mode	CH	Channel separation	Conclusion
GFSK	Low	992kHz	PASS
	Mid	1MHz	PASS
	High	1MHz	PASS
8-DPSK	Low	1MHz	PASS
	Mid	1MHz	PASS
	High	1MHz	PASS

GFSK

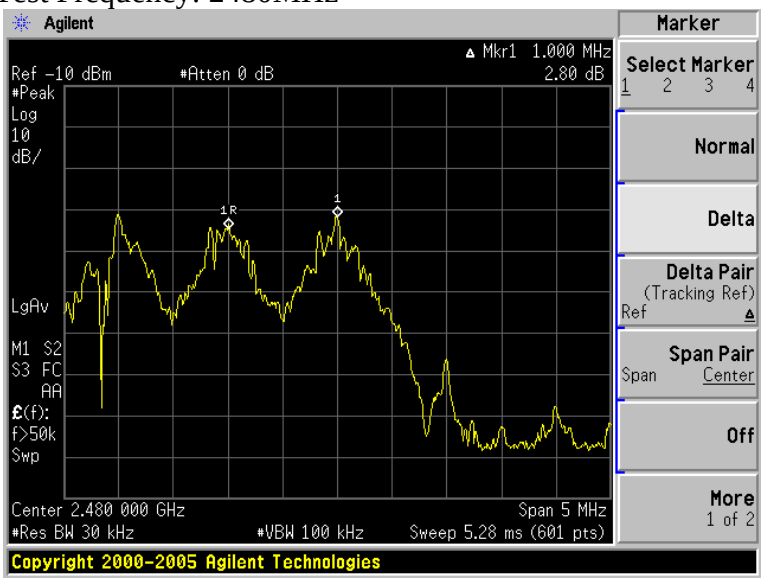
Test Frequency: 2402MHz



Test Frequency: 2441MHz

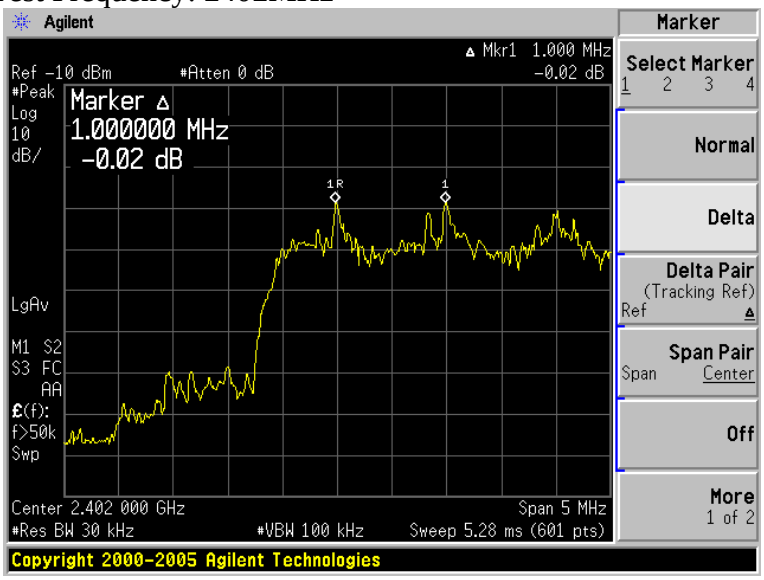


Test Frequency: 2480MHz

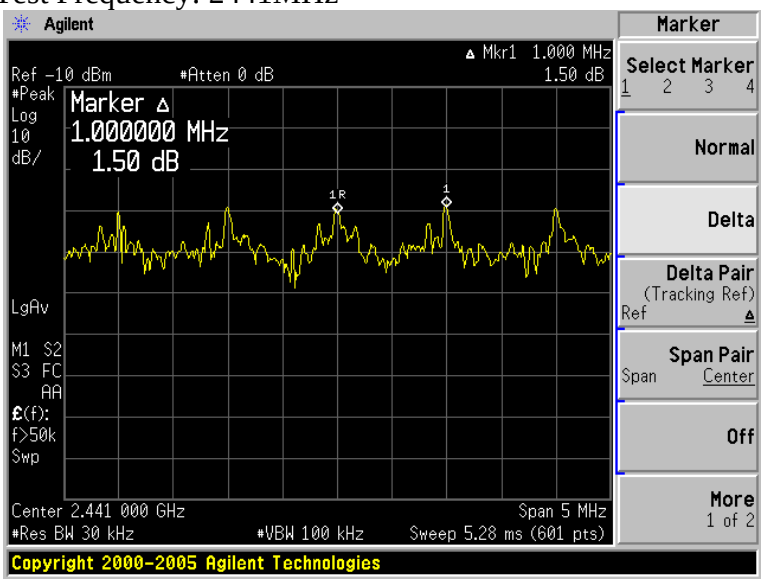


8-DPSK

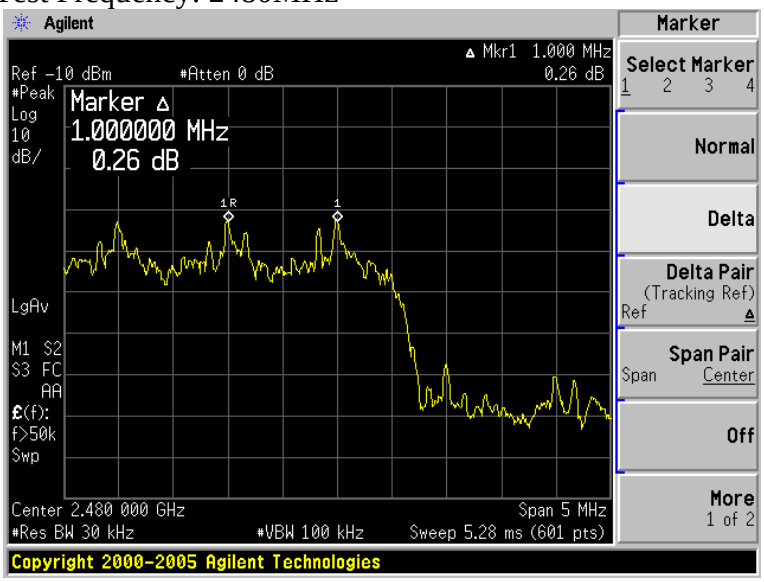
Test Frequency: 2402MHz



Test Frequency: 2441MHz



Test Frequency: 2480MHz



6. 20 DB BANDWIDTH TEST

6.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May.28, 08	1 Year
3	Horn Antenna	EMCO	3115	9607-4877	May. 27, 08	1.5 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May.28, 08	1Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May.28, 08	1 Year

6.2.Test Information

EUT:	Digital Audio Player
M/N:	SA529XBT/YY
Test Date:	Sep.20, 2008
Ambient Temperature:	23℃
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247(a)(1)
Test mode:	GFSK/8-DPSK (Hopping off)
Test Frequency:	Low: 2408MHz Mid: 2440MHz High: 2476MHz
Test By:	Power feng

6.3.Test Procedure

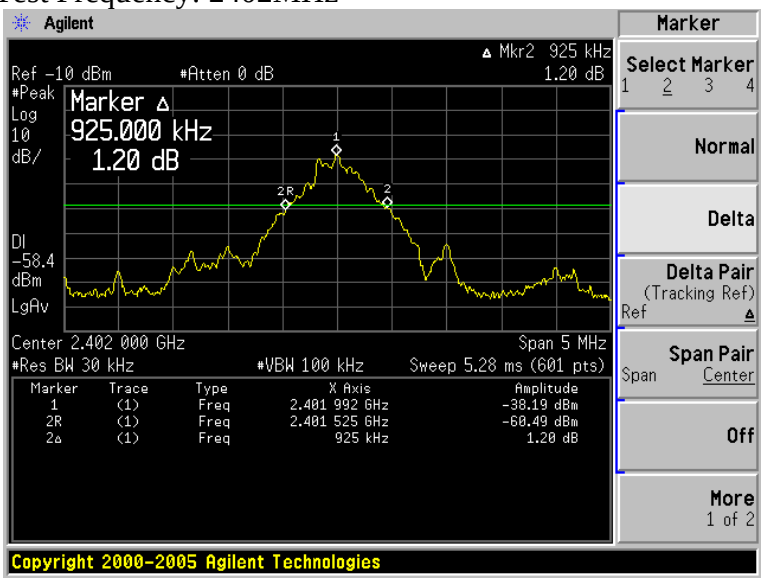
The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

6.4.Test Results

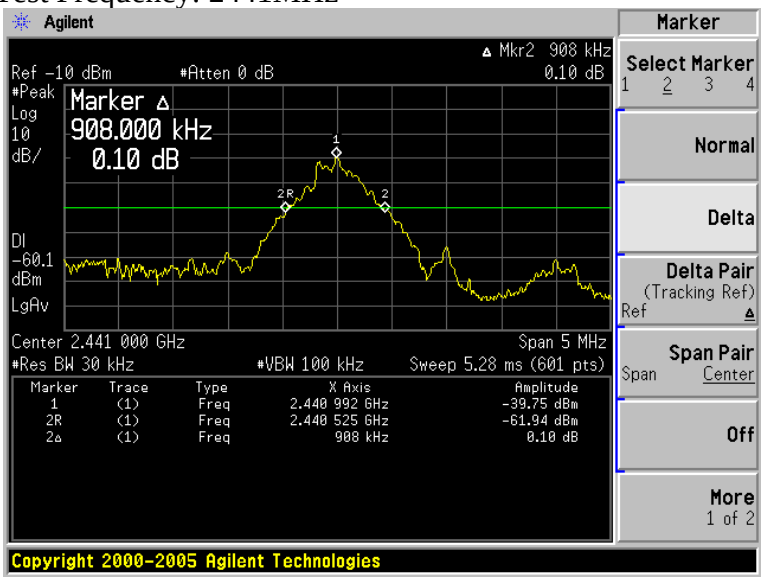
Mode	CH	20dB Bandwidth	Limit (kHz)	Conclusion
GFSK	(Low)	925kHz	---	PASS
	(Mid)	908kHz	---	PASS
	(High)	900kHz	---	PASS
8-DPSK	(Low)	1.250MHz	---	PASS
	(Mid)	1.258MHz	---	PASS
	(High)	1.267MHz	---	PASS

GFSK

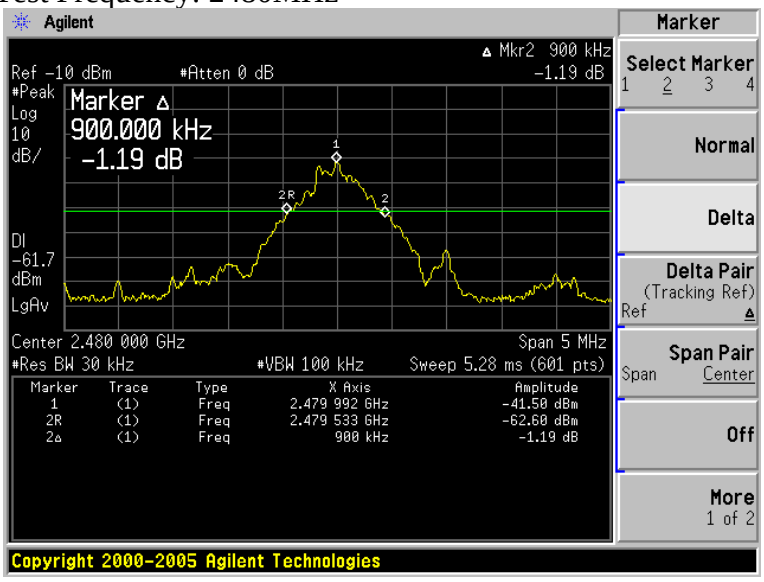
Test Frequency: 2402MHz



Test Frequency: 2441MHz

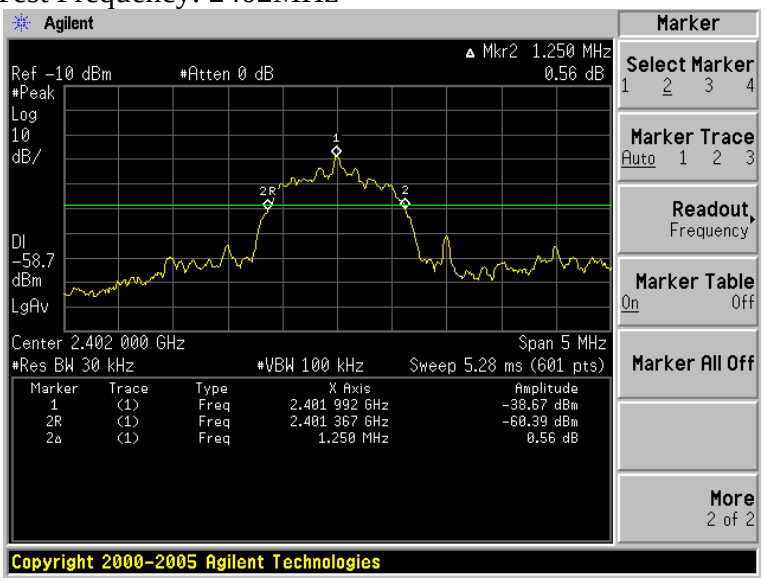


Test Frequency: 2480MHz

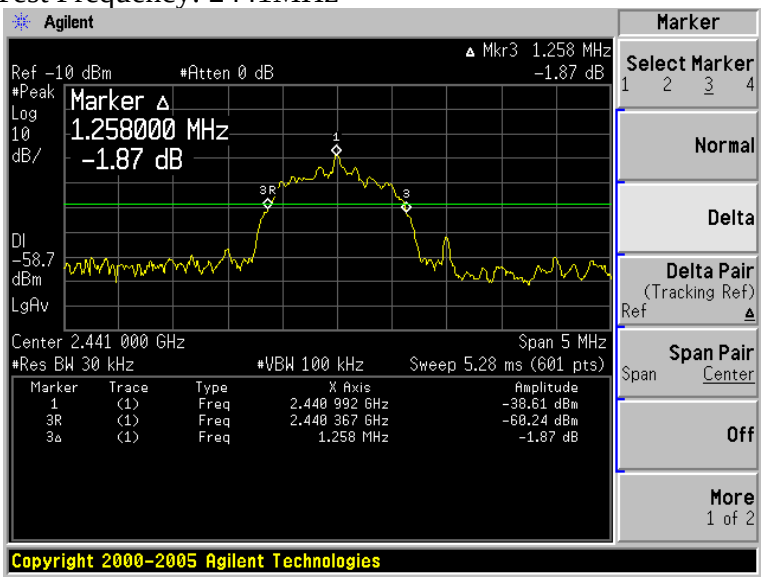


8-DPSK

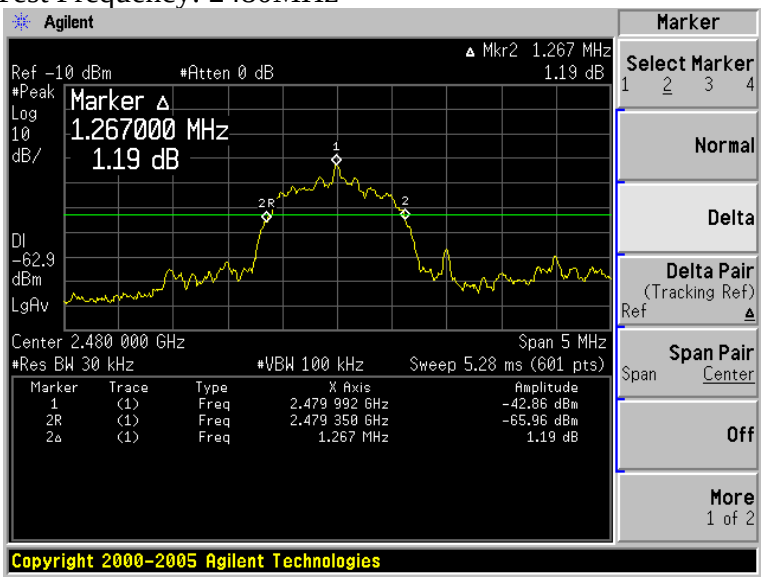
Test Frequency: 2402MHz



Test Frequency: 2441MHz



Test Frequency: 2480MHz



7. NUMBER OF HOPPING FREQUENCY TEST

7.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May.28, 08	1 Year
3	Horn Antenna	EMCO	3115	9607-4877	May. 27, 08	1.5 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May.28, 08	1Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May.28, 08	1 Year

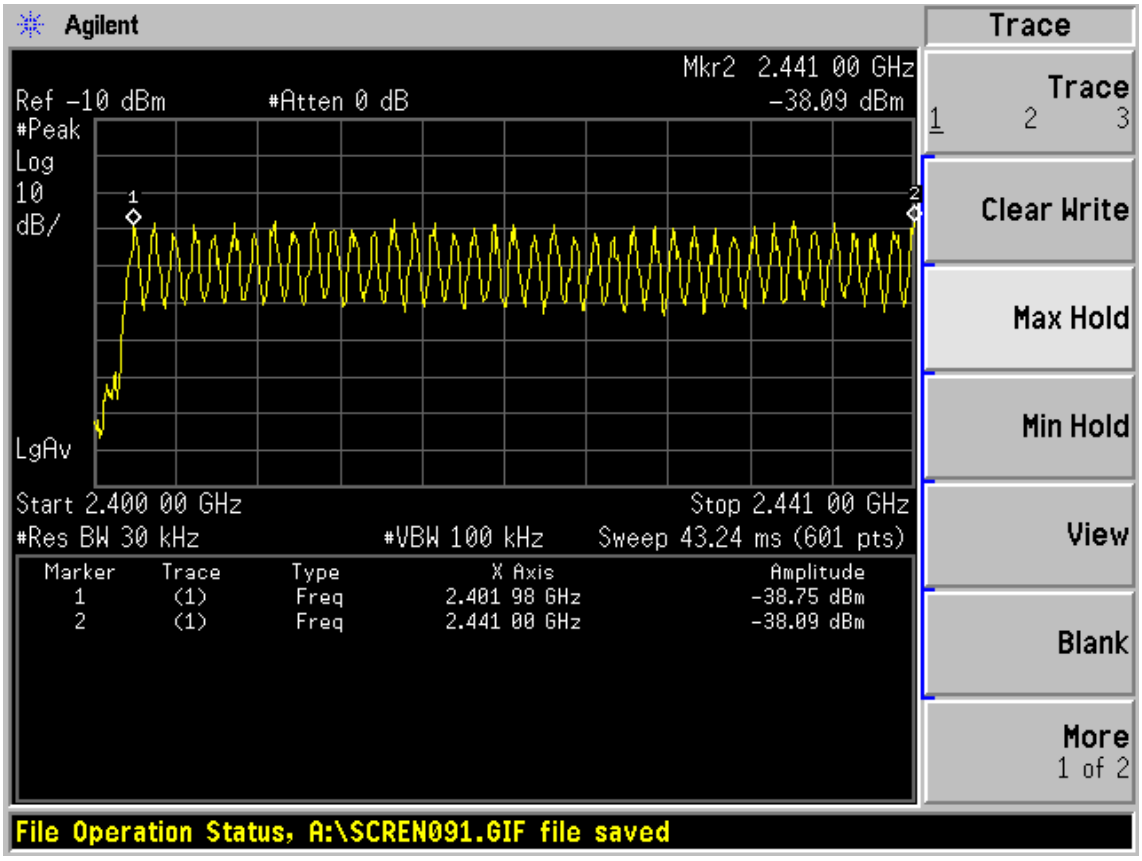
7.2.Test Information

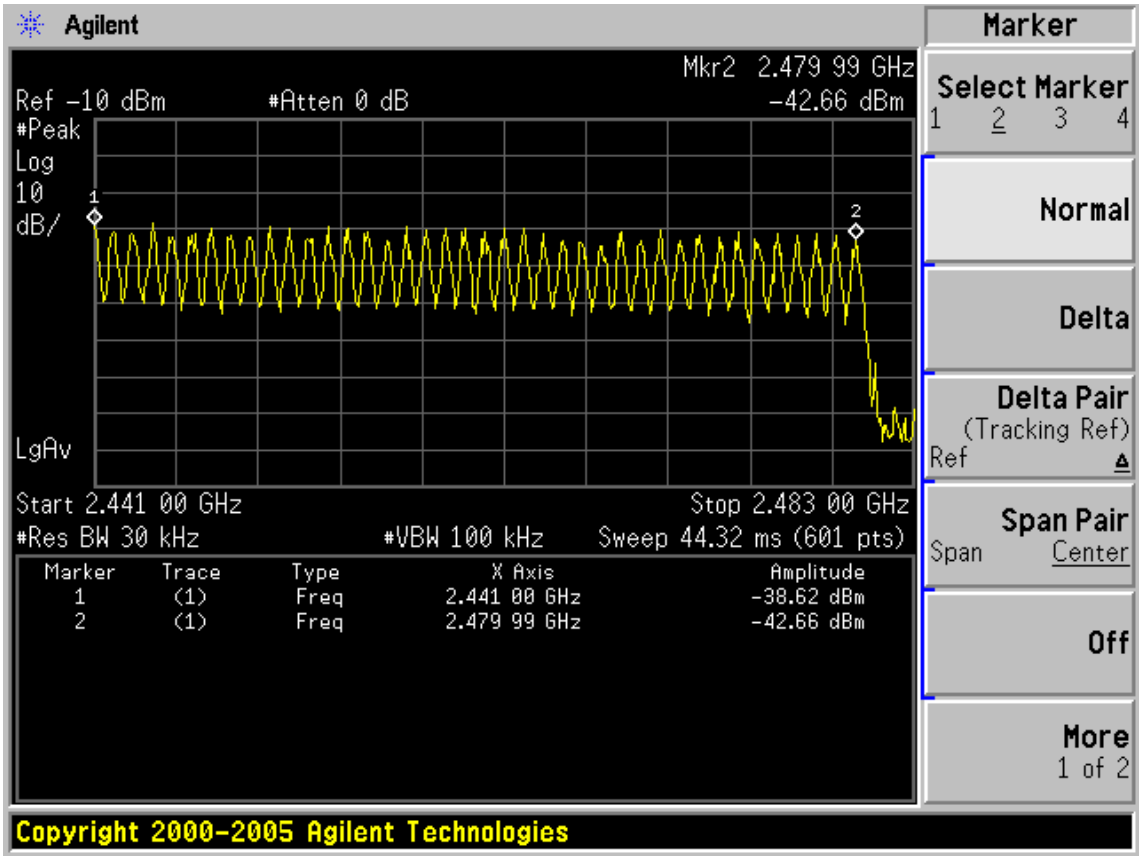
EUT:	Digital Audio Player
M/N:	SA529XBT/YY
Test Date:	Sep.20, 2008
Ambient Temperature:	23℃
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247(a)(1)(iii)
Test mode:	GFSK/8-DPSK (Hopping on)
Test Frequency:	From 2402MHz to 2480MHz
Test By:	Power feng

7.3.Test Results

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

GFSK:


Agilent
Trace
Mkr2 2.441 00 GHz
Ref -10 dBm
#Atten 0 dB
-38.09 dBm
#Peak
Log
10
dB/
LgAv
Start 2.400 00 GHz
Stop 2.441 00 GHz
#Res BW 30 kHz
#VBW 100 kHz
Sweep 43.24 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.401 98 GHz -38.75 dBm
2 (1) Freq 2.441 00 GHz -38.09 dBm
Trace
1 2 3
Clear Write
Max Hold
Min Hold
View
Blank
More
1 of 2
File Operation Status, A:\SCREN091.GIF file saved


Agilent
Marker
Mkr2 2.479 99 GHz
Ref -10 dBm
#Atten 0 dB
-42.66 dBm
#Peak
Log
10
dB/
LgAv
Start 2.441 00 GHz
Stop 2.483 00 GHz
#Res BW 30 kHz
#VBW 100 kHz
Sweep 44.32 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.441 00 GHz -38.62 dBm
2 (1) Freq 2.479 99 GHz -42.66 dBm
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref
Span Pair
Span Center
Off
More
1 of 2
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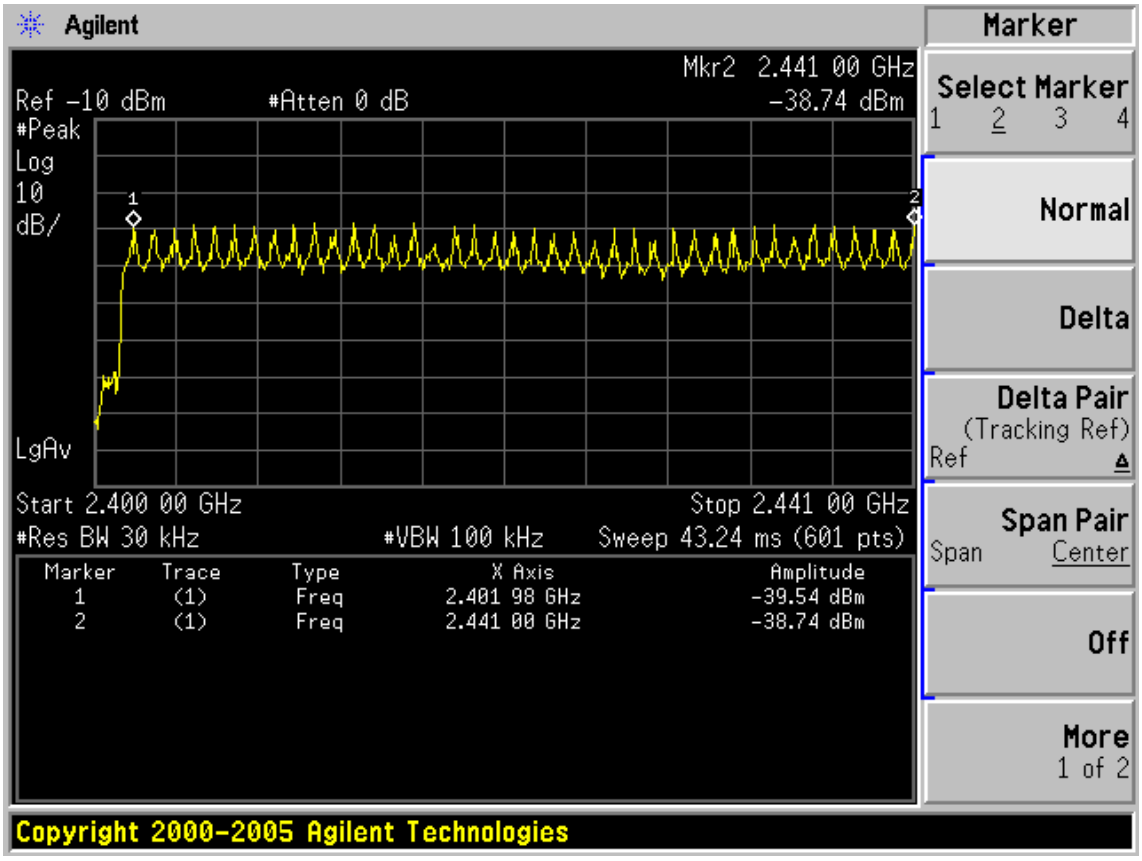
8-DPSK:


Agilent
Marker
Mkr2 2.441 00 GHz
Ref -10 dBm
#Atten 0 dB
-38.74 dBm
#Peak
Log
10
dB/
LgAv
Start 2.400 00 GHz
Stop 2.441 00 GHz
#Res BW 30 kHz
#VBW 100 kHz
Sweep 43.24 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.401 98 GHz -39.54 dBm
2 (1) Freq 2.441 00 GHz -38.74 dBm
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref
Span Pair
Span Center
Off
More
1 of 2
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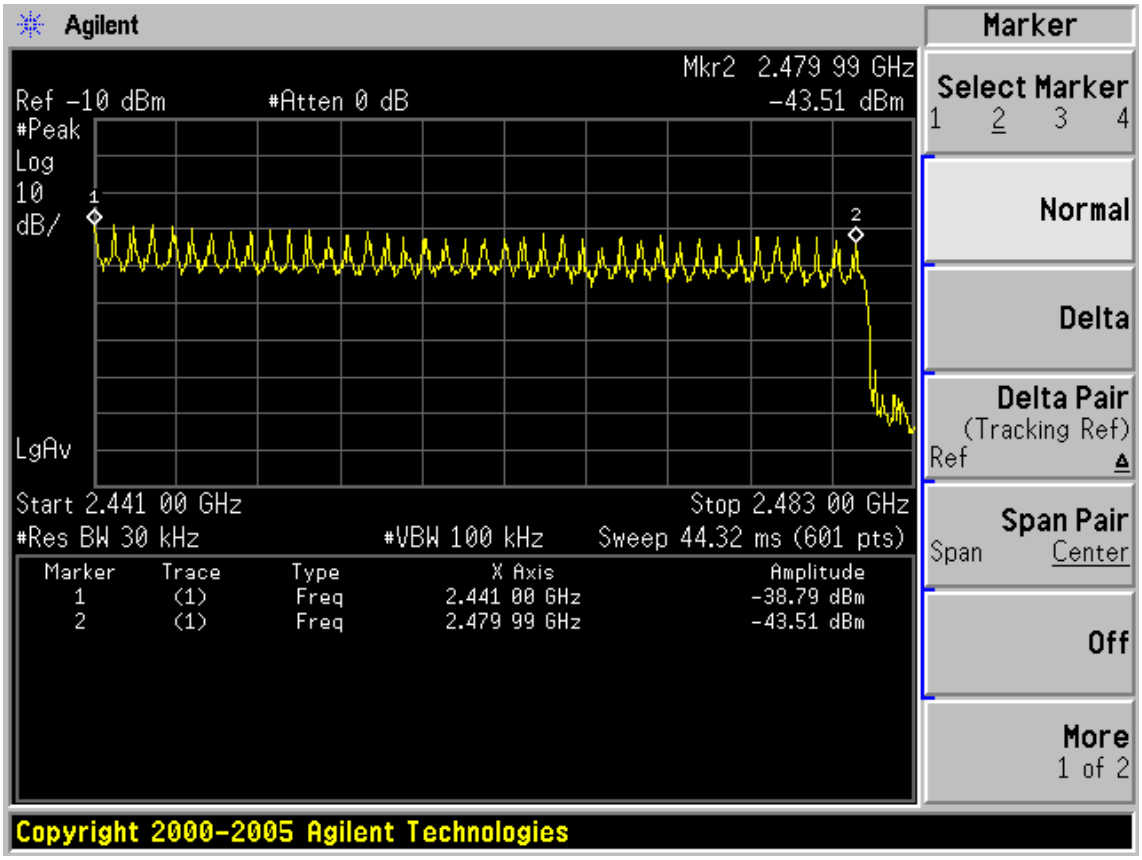
Agilent
Marker
Mkr2 2.479 99 GHz
Ref -10 dBm
#Atten 0 dB
-43.51 dBm
#Peak
Log
10
dB/
LgAv
Start 2.441 00 GHz
Stop 2.483 00 GHz
#Res BW 30 kHz
#VBW 100 kHz
Sweep 44.32 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.441 00 GHz -38.79 dBm
2 (1) Freq 2.479 99 GHz -43.51 dBm
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref
Span Pair
Span Center
Off
More
1 of 2
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8. DWELL TIME TEST

8.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,28, 08	1 Year
3	Horn Antenna	EMCO	3115	9607-4877	May, 27, 08	1.5 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May,28, 08	1Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May,28, 08	1 Year

8.2.Test Information

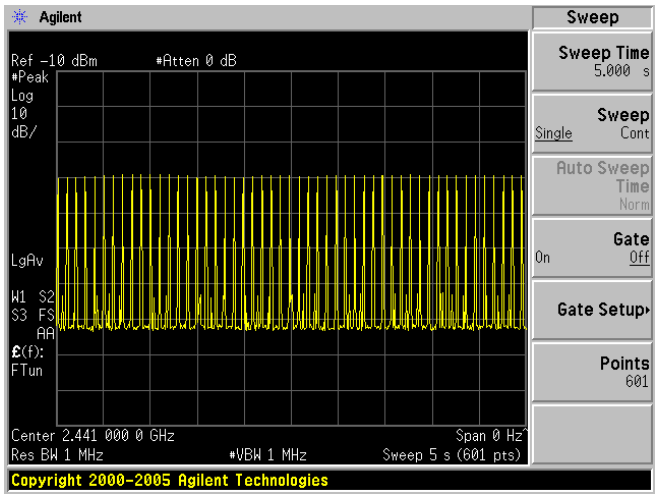
EUT:	Digital Audio Player
M/N:	SA529XBT/YY
Test Date:	Sep.20, 2008
Ambient Temperature:	23℃
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247(a)(1)(iii)
Test mode:	GFSK/8-DPSK, Hopping off
Test Frequency:	Normal
Test By:	Power feng

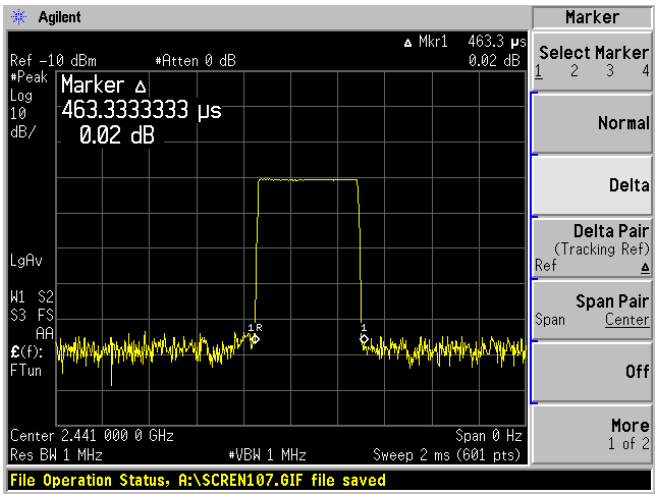
8.3.Test Results

Mode	dwell time	Limit	Conclusion
GFSK	DH1: 146.40ms	<400ms	PASS
	DH3: 280.45ms	<400ms	PASS
	DH5: 311.75ms	<400ms	PASS
8-DPSK	3-DH1: 153.80ms	<400ms	PASS
	3-DH3: 277.76ms	<400ms	PASS
	3-DH5: 306.70ms	<400ms	PASS

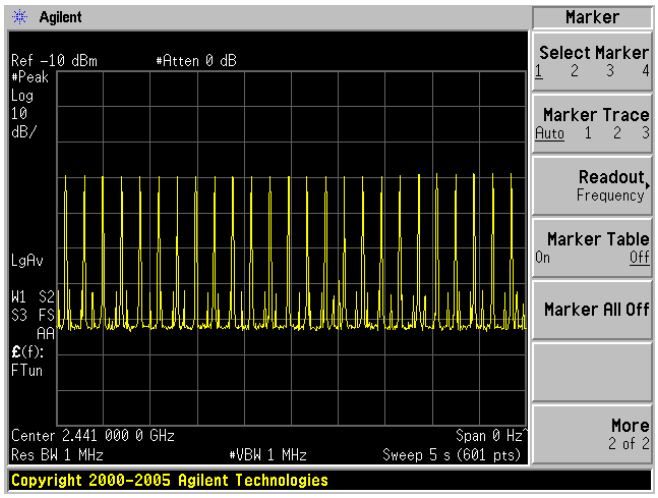
GFSK:

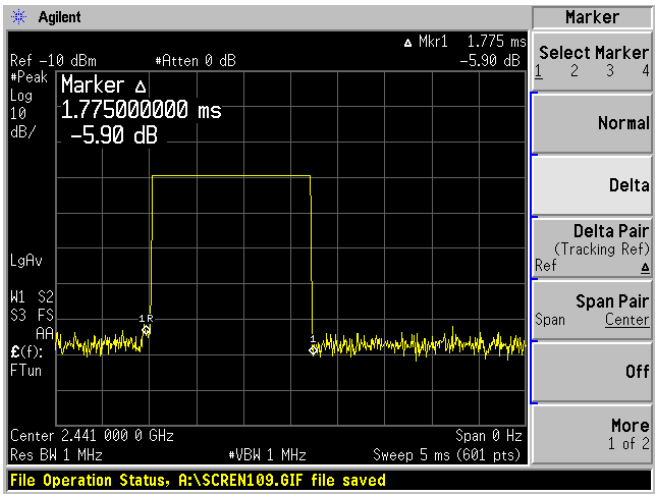
DH1: 50/5*31.6*0.4633=146.40ms



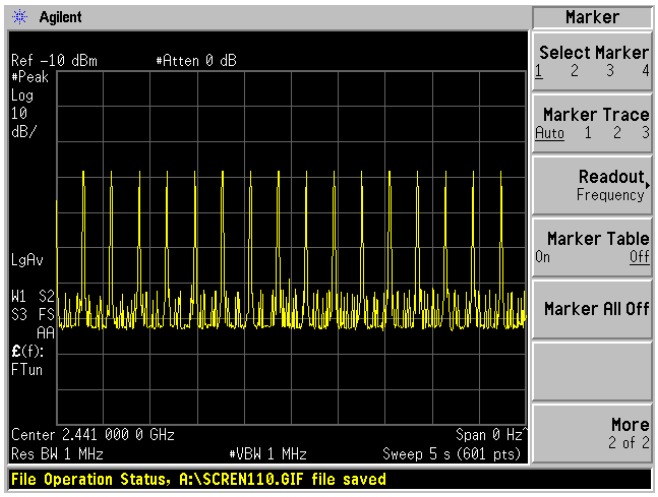


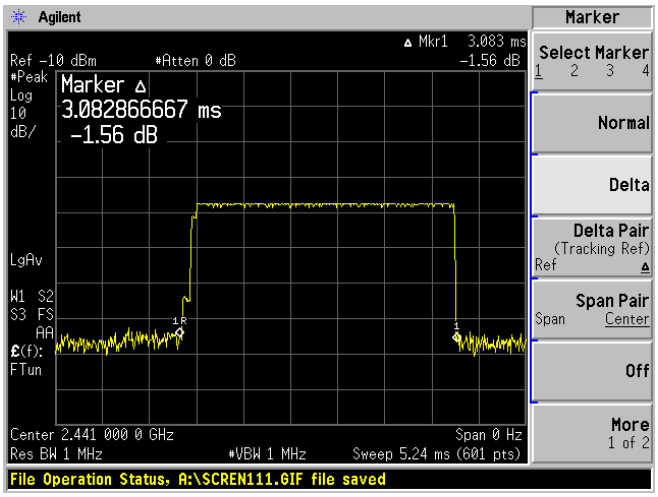
DH3: 25/5*31.6*1.775=280.45ms





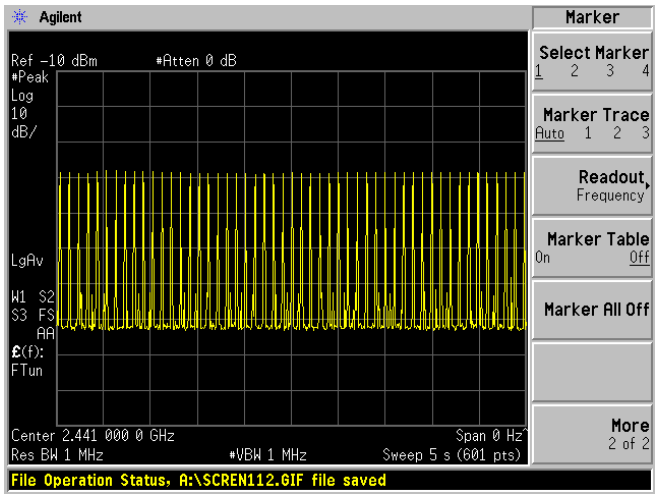
DH5: 16/5*31.6*3.083=311.75ms

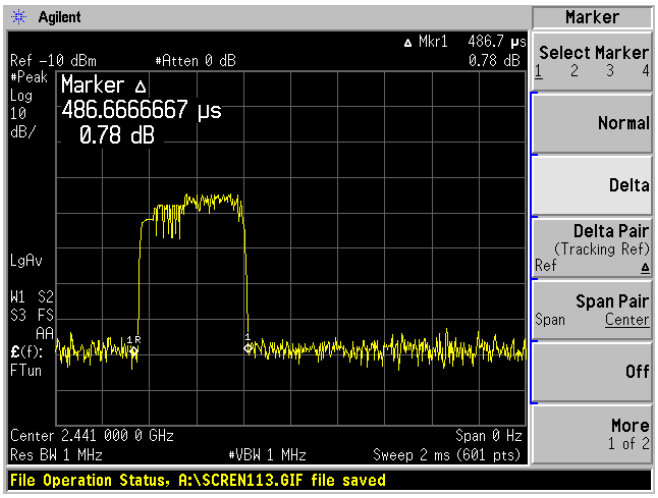




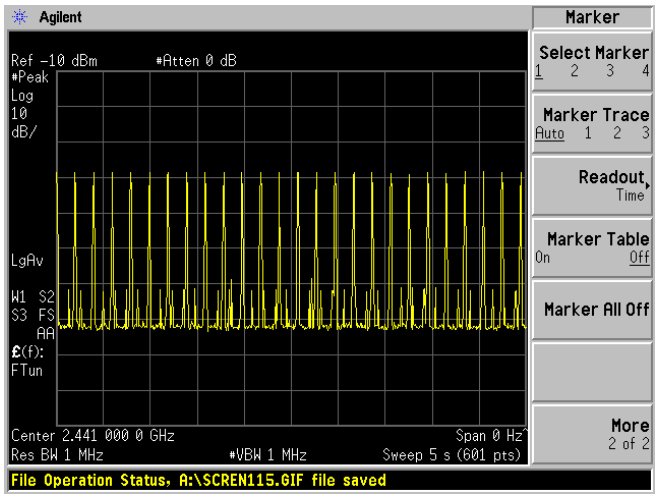
8-DPSK:

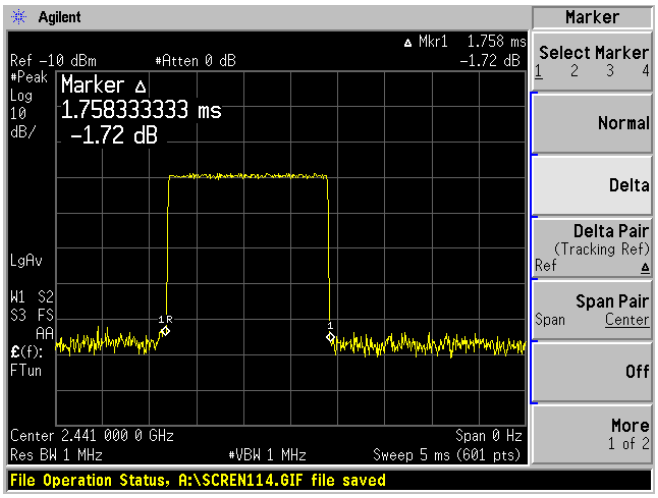
3-DH1: 50/5*31.6*0.4867=153.80ms



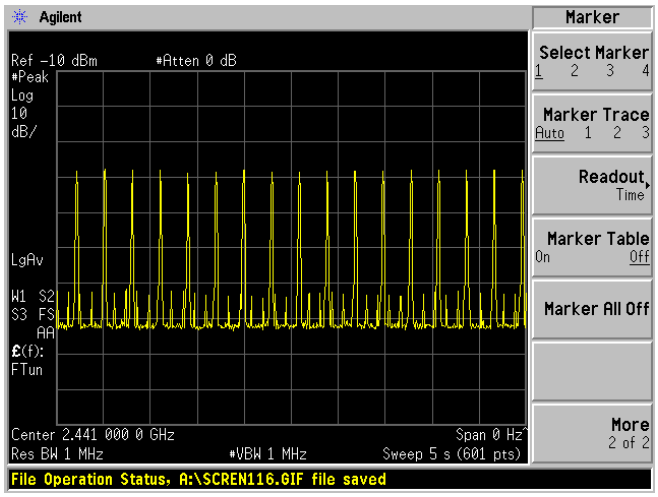


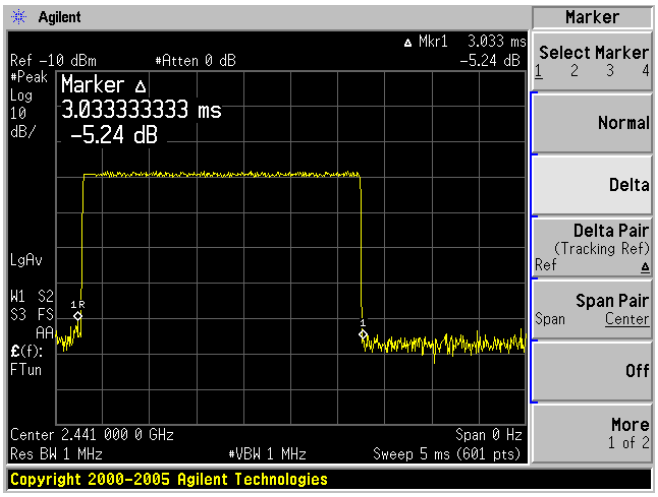
3-DH3: 25/5*31.6*1.758=277.76ms





3-DH5: 16/5*31.6*3.033=306.70ms





9. MAXIMUM PEAK OUTPUT POWER TEST

9.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Attenuator	Agilent	8491B	MY39262165	May,28, 08	1 Year
2	Power meter	Anritsu	ML2487A	6K00002472	May,10, 08	1 Year
3	Power sensor	Anritsu	ML2491A	032516	May,10, 08	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX	182769/4	May,28, 08	1Year
5	RF Cable	Hubersuhner	SUCOFLEX	182768/4	May,28, 08	1 Year

9.2.Limit(FCC Part 15C 15.247 b(3)

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

9.3.Test Procedure

The transmitter output was connected to a power meter, and read out the PK output power.

9.4.Test Information

EUT:	Digital Audio Player
M/N:	SA529XBT/YY
Test Date:	Sep.20, 2008
Ambient Temperature:	23℃
Relative Humidity:	60%
Test standard:	FCC PART 15C: 15.247(b)(1)
Test mode:	GFSK/8-DPSK (Hopping off)
Test Frequency:	Low: 2402MHz Mid: 2441MHz High: 2480MHz
Test By:	Power feng

9.5.Test Results

Test mode: GFSK Tx mode						
Test CH	Read(PK) (dBm)	Cable loss (dB)	Atten loss (dB)	Result (dBm)	Limit (dBm)	Conclusion
CH1:2402MHz	0.65	0.6	0	1.25	30	**PASS**
CH40:2441MHz	1.21	0.6	0	1.81	30	**PASS**
CH79:2480MHz	1.02	0.6	0	1.62	30	**PASS**
Test mode: 8-DPSK Tx mode						
CH1:2402MHz	-1.03	0.6	0	-0.43	30	**PASS**
CH40:2441MHz	0.12	0.6	0	0.72	30	**PASS**
CH79:2480MHz	0.23	0.6	0	0.83	30	**PASS**
Note: Result=Read+Cable loss+Atten loss						

10.BAND EDGE COMPLIANCE TEST

10.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.10, 08	1 Year
2.	Amp	HP	8449B	3008A00863	May.10, 08	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 10, 08	1 Year

10.2.Limit

According to §15.247(c), in any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in15.209(a).

10.3.Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
   (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
   (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

10.4.Test Results

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

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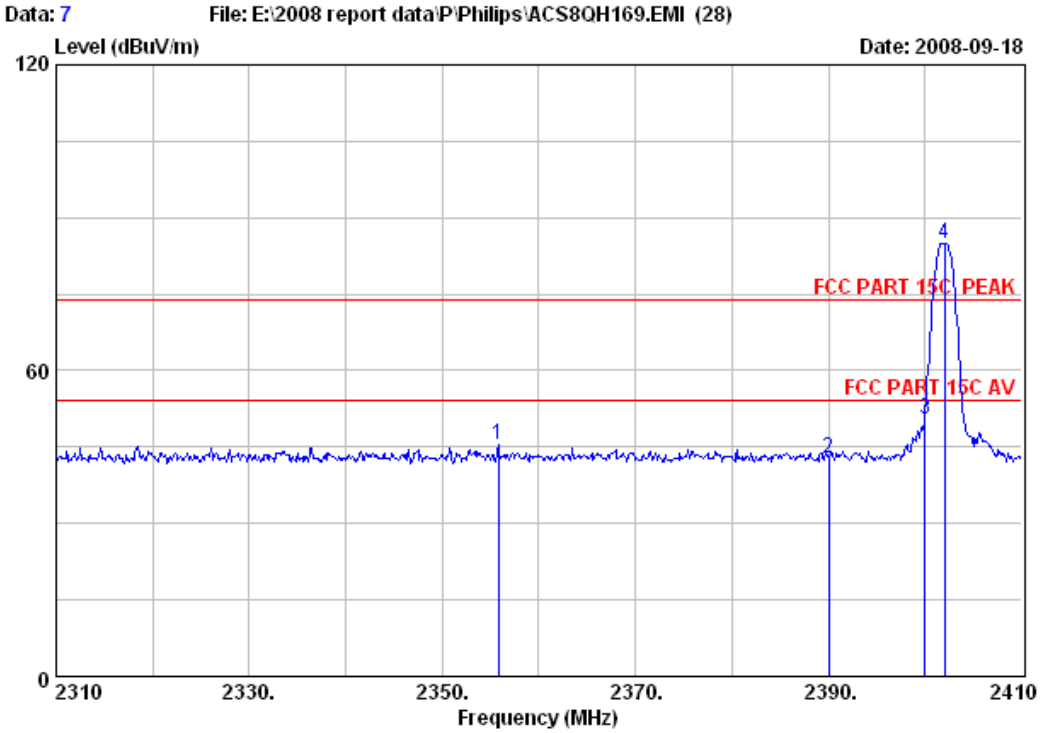

Site no. : 3# Chamber Data no. : 7
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : GFSK Tx 2402MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2355.80	28.41	6.69	35.19	45.40	45.31	74.00	28.69	Peak
2	2390.00	28.46	6.71	35.18	42.77	42.76	74.00	31.24	Peak
3	2400.00	28.46	6.73	35.18	50.32	50.33	74.00	23.67	Peak
4	2402.00	28.46	6.73	35.18	84.98	84.99	74.00	-10.99	Peak

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

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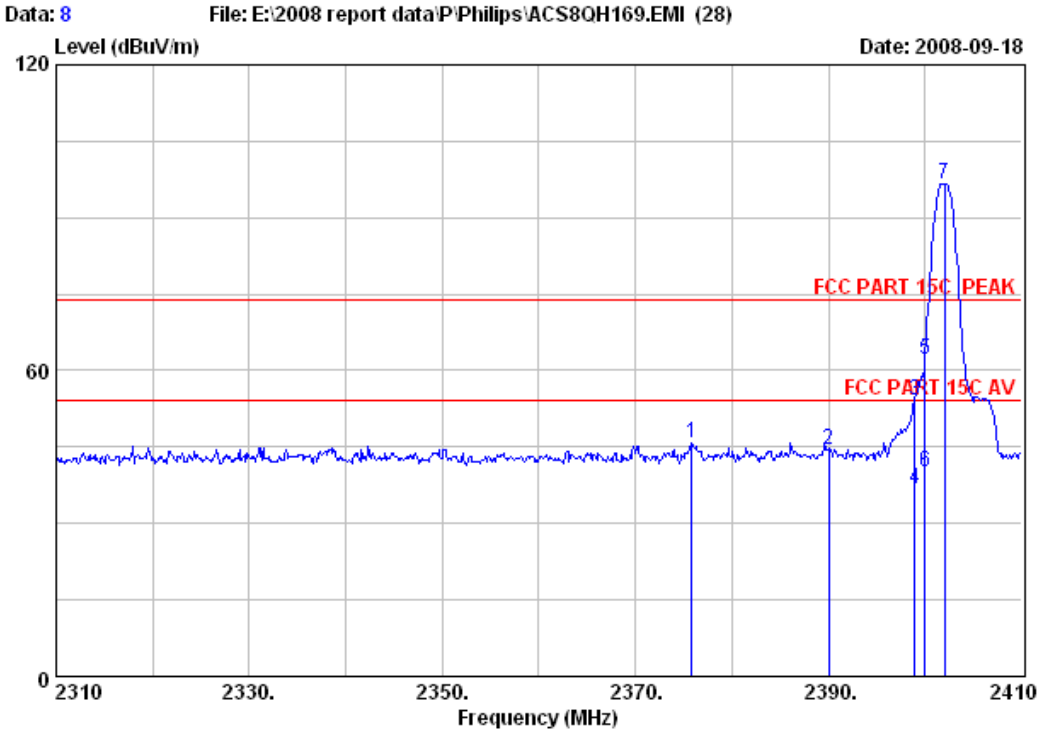
Postcode:518057



Site no. : 3# Chamber Data no. : 8
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : GFSK Tx 2402MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2375.80	28.43	6.71	35.19	45.87	45.82	74.00	28.18	Peak
2	2390.00	28.46	6.71	35.18	44.60	44.59	74.00	29.41	Peak
3	2398.90	28.46	6.73	35.18	54.11	54.12	74.00	19.88	Peak
4	2398.90	28.46	6.73	35.18	36.73	36.74	54.00	17.26	Average
5	2400.00	28.46	6.73	35.18	62.18	62.19	74.00	11.81	Peak
6	2400.00	28.46	6.73	35.18	40.00	40.01	54.00	13.99	Average
7	2402.00	28.46	6.73	35.18	96.72	96.73	74.00	-22.73	Peak

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

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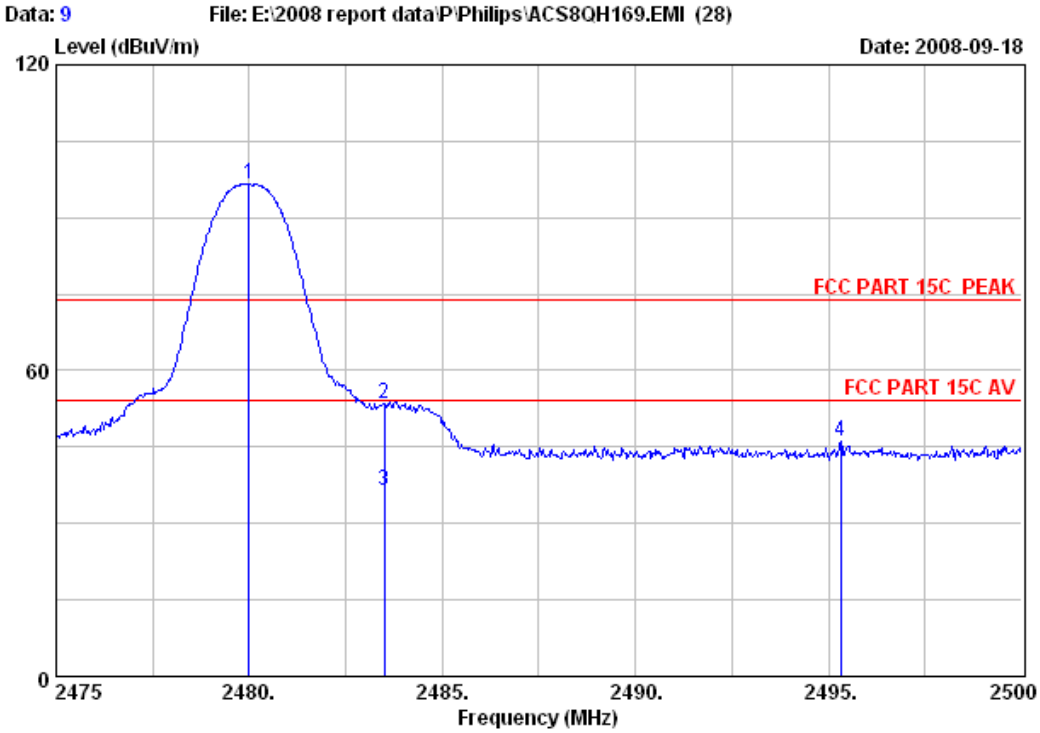

Site no. : 3# Chamber Data no. : 9
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : GFSK Tx 2480MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.58	6.87	35.16	96.18	96.47	74.00	-22.47	Peak
2	2483.50	28.58	6.87	35.16	53.30	53.59	74.00	20.41	Peak
3	2483.50	28.58	6.87	35.16	36.27	36.56	54.00	17.44	Average
4	2495.33	28.60	6.91	35.15	45.73	46.09	74.00	27.91	Peak

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

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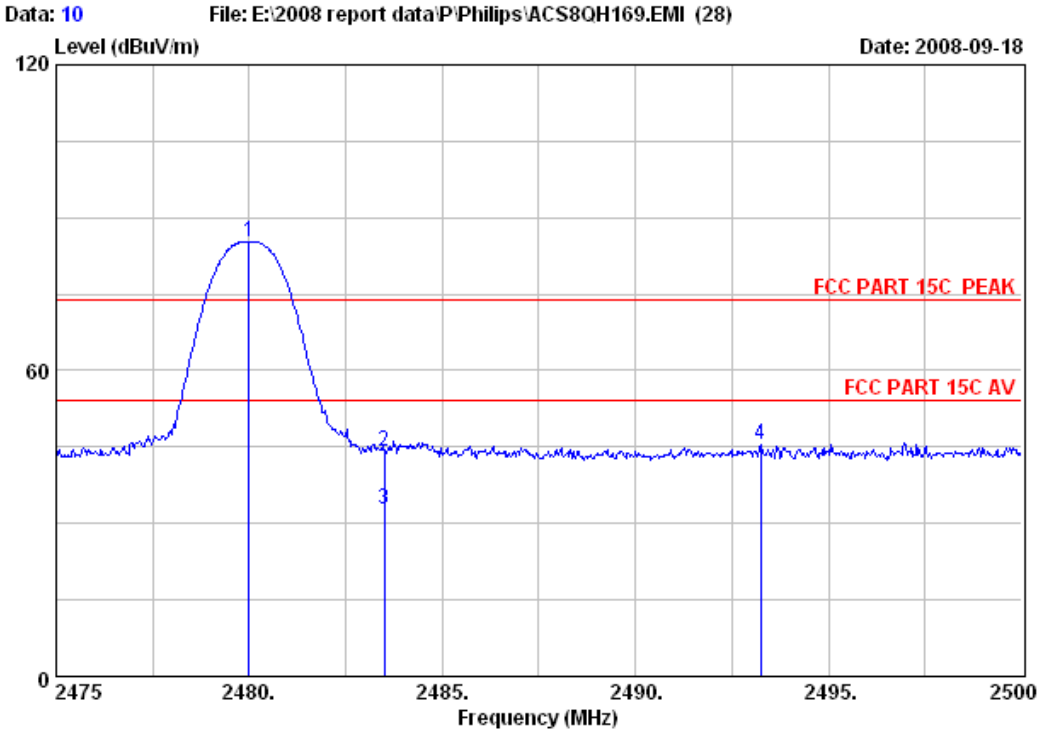

Site no. : 3# Chamber Data no. : 10
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : GFSK Tx 2480MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.58	6.87	35.16	84.92	85.21	74.00	-11.21	Peak
2	2483.50	28.58	6.87	35.16	43.78	44.07	74.00	29.93	Peak
3	2483.50	28.58	6.87	35.16	32.30	32.59	54.00	21.41	Average
4	2493.25	28.60	6.91	35.15	44.95	45.31	74.00	28.69	Peak

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

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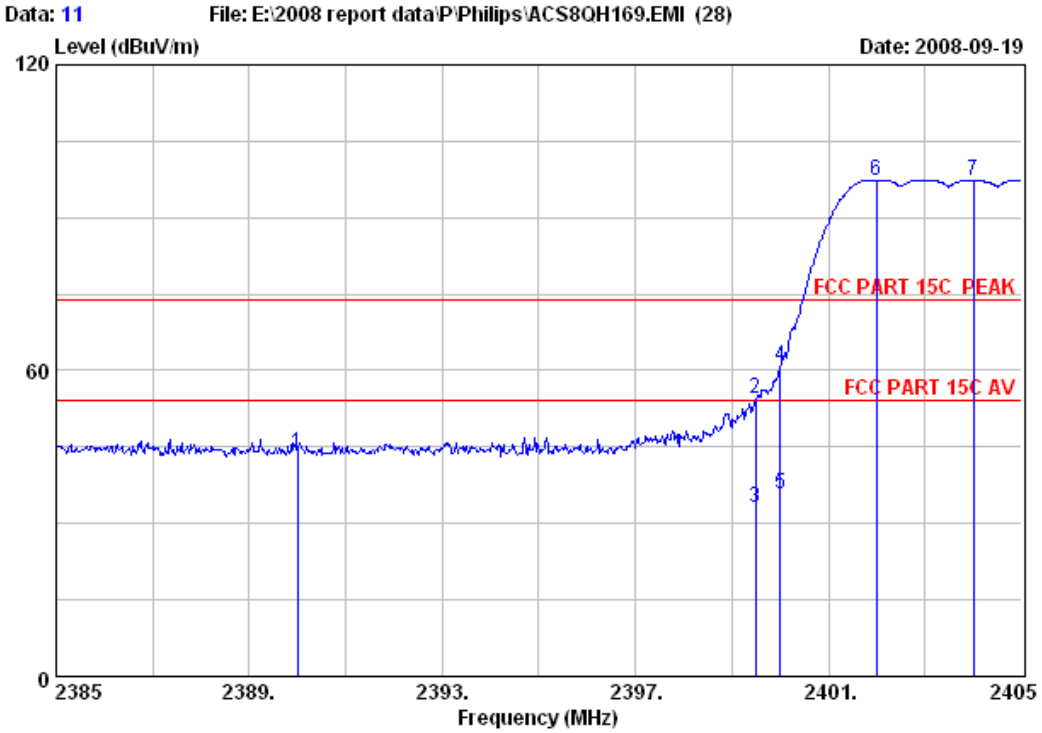

Site no. : 3# Chamber Data no. : 11
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : GFSK hopping on
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.46	6.71	35.18	43.91	43.90	74.00	30.10	Peak
2	2399.48	28.46	6.73	35.18	54.44	54.45	74.00	19.55	Peak
3	2399.48	28.46	6.73	35.18	33.06	33.07	54.00	20.93	Average
4	2400.00	28.46	6.73	35.18	60.75	60.76	74.00	13.24	Peak
5	2400.00	28.46	6.73	35.18	35.91	35.92	54.00	18.08	Average
6	2402.00	28.46	6.73	35.18	97.31	97.32	74.00	-23.32	Peak
7	2404.00	28.48	6.73	35.18	97.18	97.21	74.00	-23.21	Peak

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

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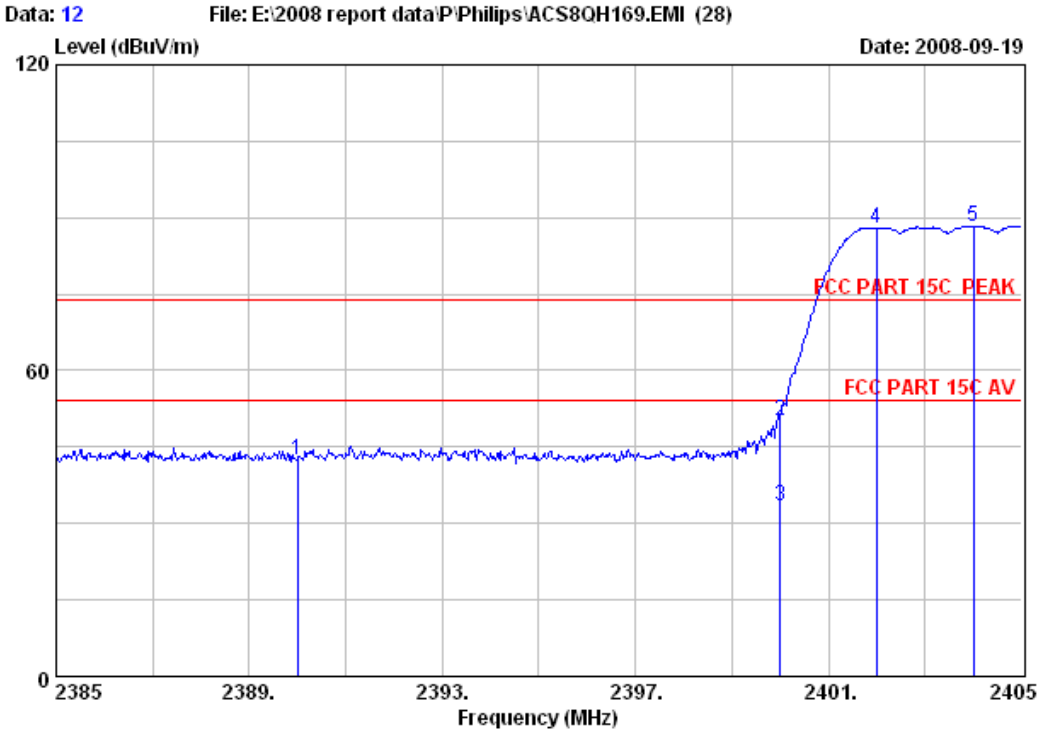

Site no. : 3# Chamber Data no. : 12
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : GFSK hopping on
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.46	6.71	35.18	42.55	42.54	74.00	31.46	Peak
2	2400.00	28.46	6.73	35.18	50.15	50.16	74.00	23.84	Peak
3	2400.00	28.46	6.73	35.18	33.44	33.45	54.00	20.55	Average
4	2402.00	28.46	6.73	35.18	88.02	88.03	74.00	-14.03	Peak
5	2404.00	28.48	6.73	35.18	88.12	88.15	74.00	-14.15	Peak

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

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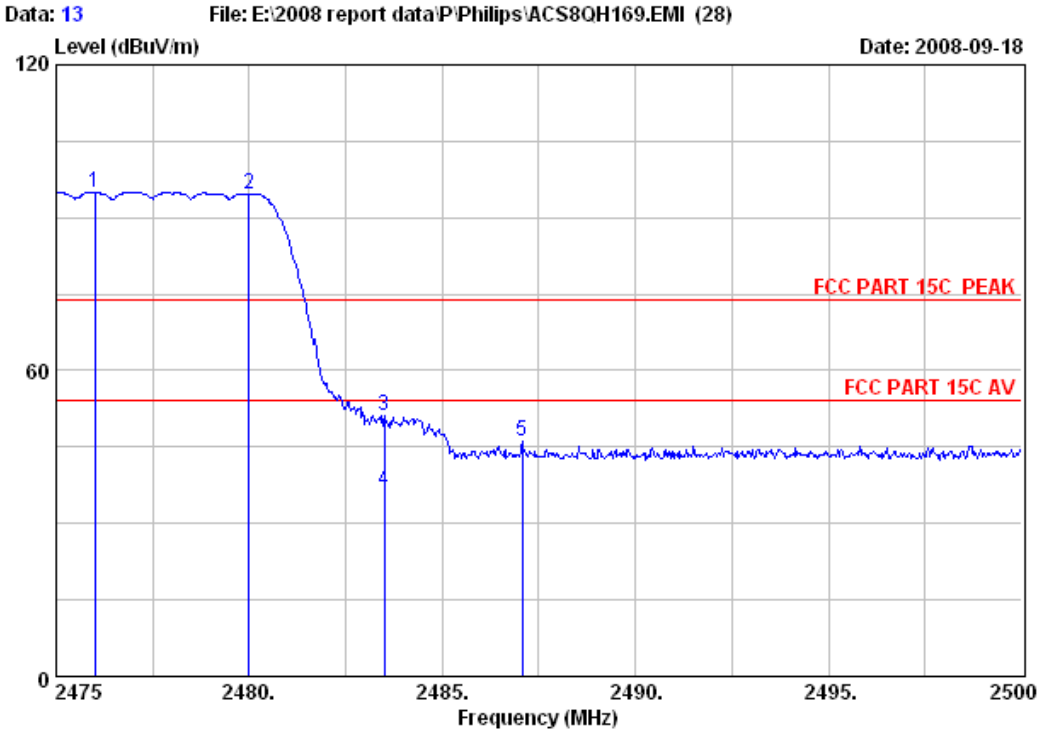

Site no. : 3# Chamber Data no. : 13
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : GFSK hopping on
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2476.00	28.58	6.87	35.16	94.55	94.84	74.00	-20.84	Peak
2	2480.00	28.58	6.87	35.16	94.33	94.62	74.00	-20.62	Peak
3	2483.50	28.58	6.87	35.16	50.82	51.11	74.00	22.89	Peak
4	2483.50	28.58	6.87	35.16	36.16	36.45	54.00	17.55	Average
5	2487.08	28.58	6.87	35.16	45.70	45.99	74.00	28.01	Peak

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

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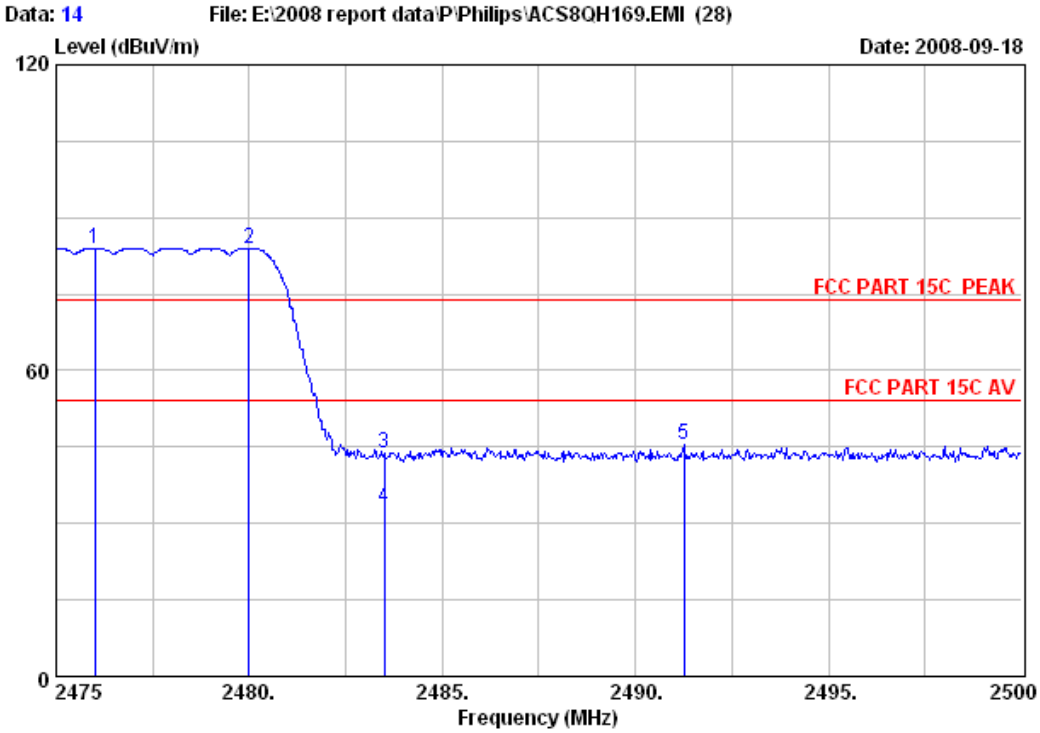

Site no. : 3# Chamber Data no. : 14
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : GFSK hopping on
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2476.00	28.58	6.87	35.16	83.53	83.82	74.00	-9.82	Peak
2	2480.00	28.58	6.87	35.16	83.48	83.77	74.00	-9.77	Peak
3	2483.50	28.58	6.87	35.16	43.54	43.83	74.00	30.17	Peak
4	2483.50	28.58	6.87	35.16	32.69	32.98	54.00	21.02	Average
5	2491.25	28.60	6.91	35.15	45.02	45.38	74.00	28.62	Peak

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

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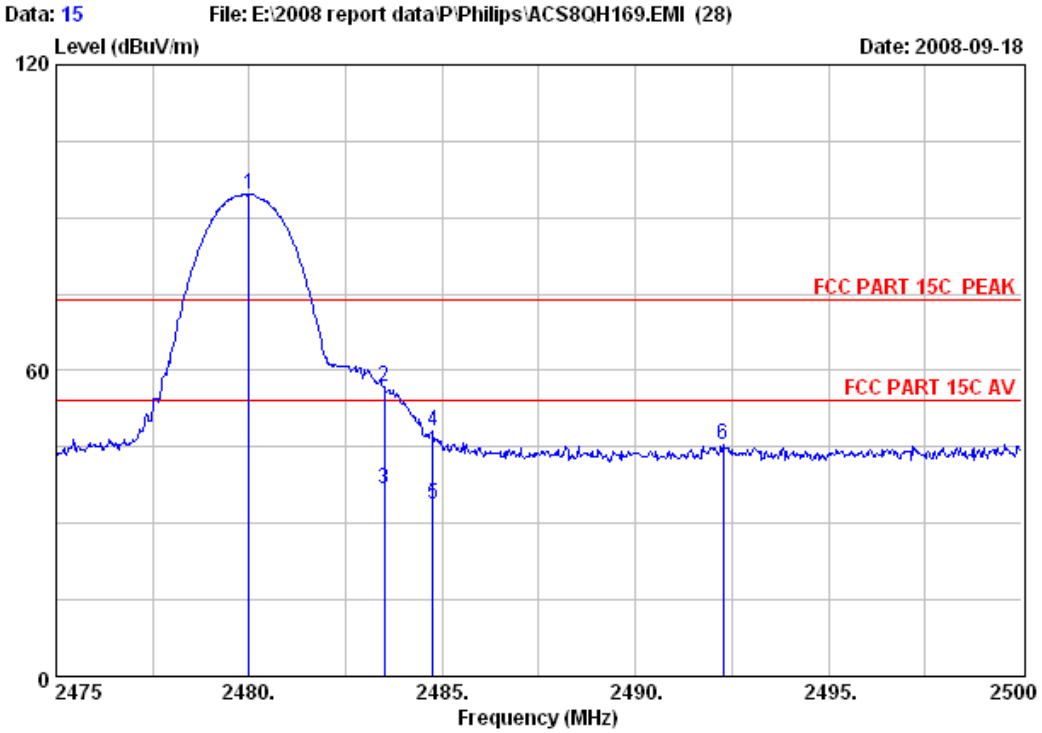

Site no. : 3# Chamber Data no. : 15
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : 8-DPSK Tx 2480MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.58	6.87	35.16	94.31	94.60	74.00	-20.60	Peak
2	2483.50	28.58	6.87	35.16	56.49	56.78	74.00	17.22	Peak
3	2483.50	28.58	6.87	35.16	36.46	36.75	54.00	17.25	Average
4	2484.75	28.58	6.87	35.16	47.68	47.97	74.00	26.03	Peak
5	2484.75	28.58	6.87	35.16	33.56	33.85	54.00	20.15	Average
6	2492.28	28.60	6.91	35.15	44.95	45.31	74.00	28.69	Peak

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

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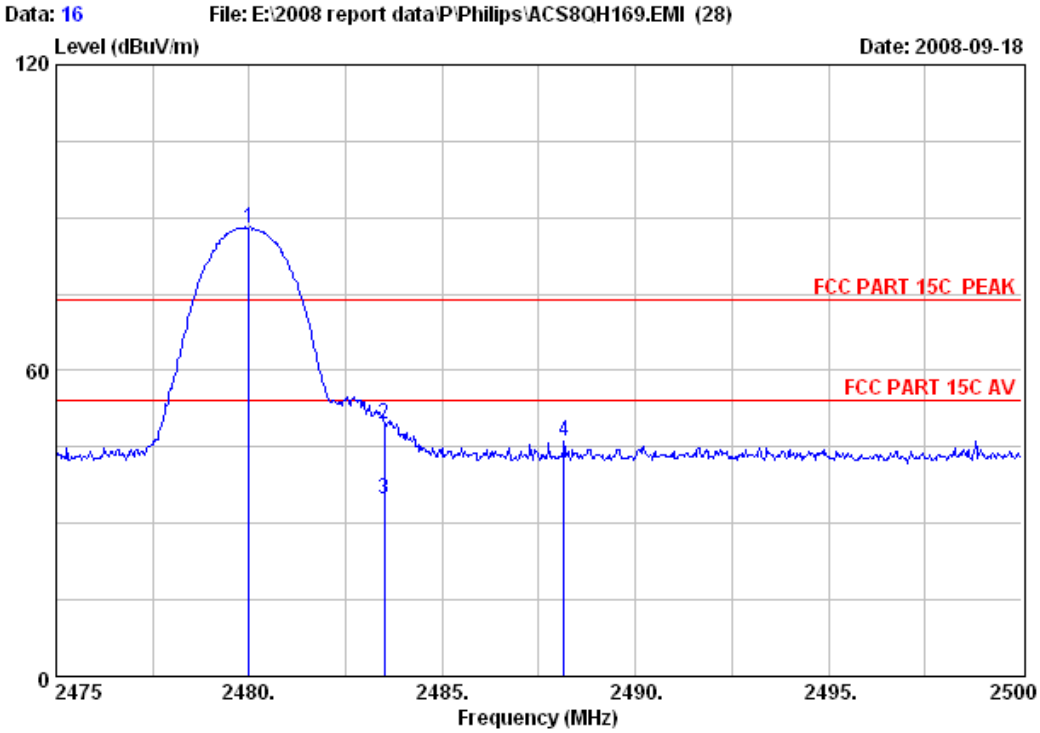

Site no. : 3# Chamber Data no. : 16
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : 8-DPSK Tx 2480MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.58	6.87	35.16	87.54	87.83	74.00	-13.83	Peak
2	2483.50	28.58	6.87	35.16	49.31	49.60	74.00	24.40	Peak
3	2483.50	28.58	6.87	35.16	34.36	34.65	54.00	19.35	Average
4	2488.15	28.60	6.87	35.15	45.77	46.09	74.00	27.91	Peak

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

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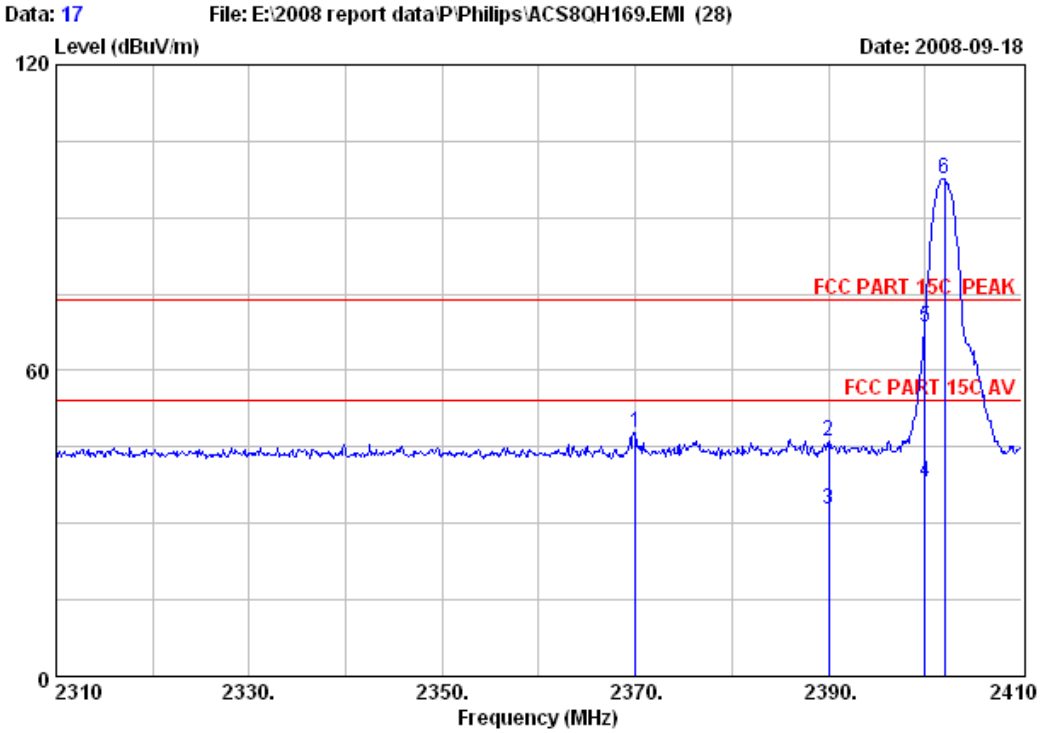

Site no. : 3# Chamber Data no. : 17
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : 8-DPSK Tx 2402MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2370.00	28.43	6.69	35.19	47.91	47.84	74.00	26.16	Peak
2	2390.00	28.46	6.71	35.18	46.14	46.13	74.00	27.87	Peak
3	2390.00	28.46	6.71	35.18	32.69	32.68	54.00	21.32	Average
4	2400.00	28.46	6.73	35.18	38.20	38.21	54.00	15.79	Average
5	2400.00	28.46	6.73	35.18	68.64	68.65	74.00	5.35	Peak
6	2402.00	28.46	6.73	35.18	97.56	97.57	74.00	-23.57	Peak

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

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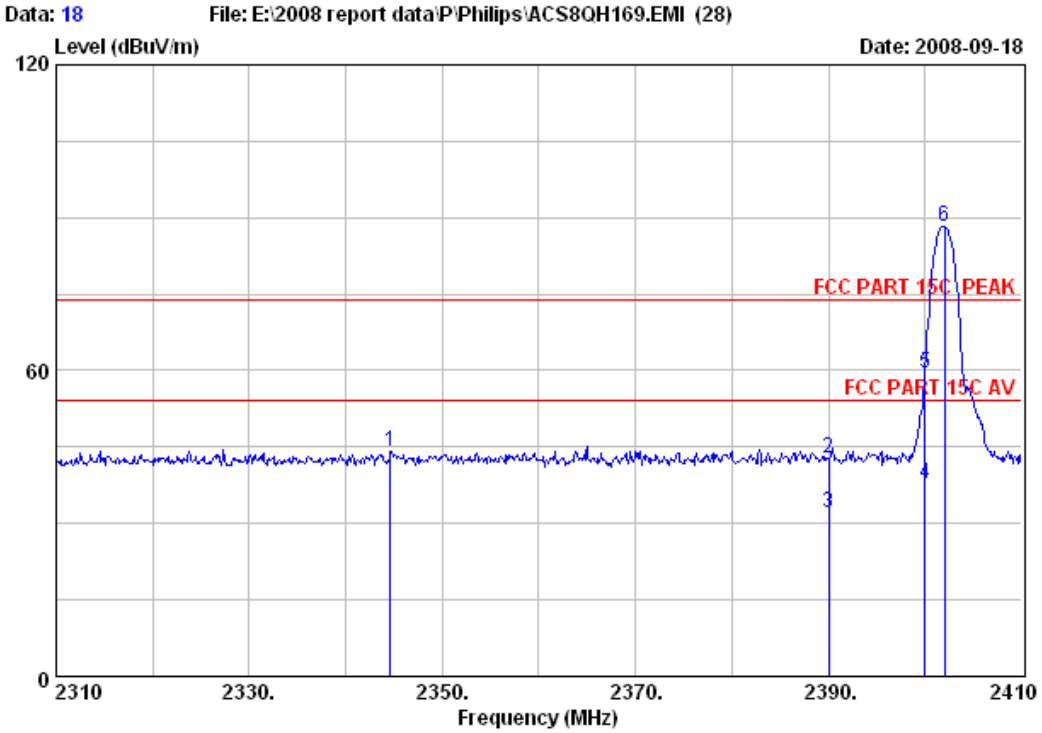

Site no. : 3# Chamber Data no. : 18
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : 8-DPSK Tx 2402MHz
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2344.60	28.38	6.67	35.19	44.34	44.20	74.00	29.80	Peak
2	2390.00	28.46	6.71	35.18	42.65	42.64	74.00	31.36	Peak
3	2390.00	28.46	6.71	35.18	32.01	32.00	54.00	22.00	Average
4	2400.00	28.46	6.73	35.18	37.69	37.70	54.00	16.30	Average
5	2400.00	28.46	6.73	35.18	59.54	59.55	74.00	14.45	Peak
6	2402.00	28.46	6.73	35.18	88.34	88.35	74.00	-14.35	Peak

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

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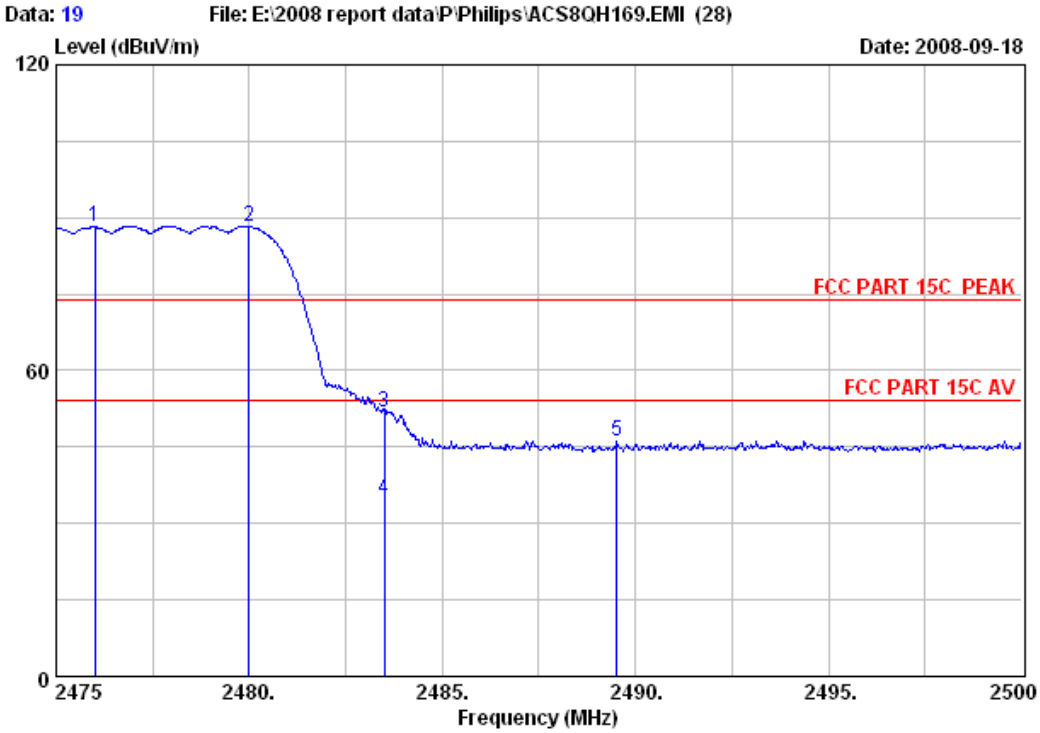

Site no. : 3# Chamber Data no. : 19
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : 8-DPSK hopping on
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2476.00	28.58	6.87	35.16	87.81	88.10	74.00	-14.10	Peak
2	2480.00	28.58	6.87	35.16	87.91	88.20	74.00	-14.20	Peak
3	2483.50	28.58	6.87	35.16	51.54	51.83	74.00	22.17	Peak
4	2483.50	28.58	6.87	35.16	34.48	34.77	54.00	19.23	Average
5	2489.53	28.60	6.91	35.15	45.80	46.16	74.00	27.84	Peak

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

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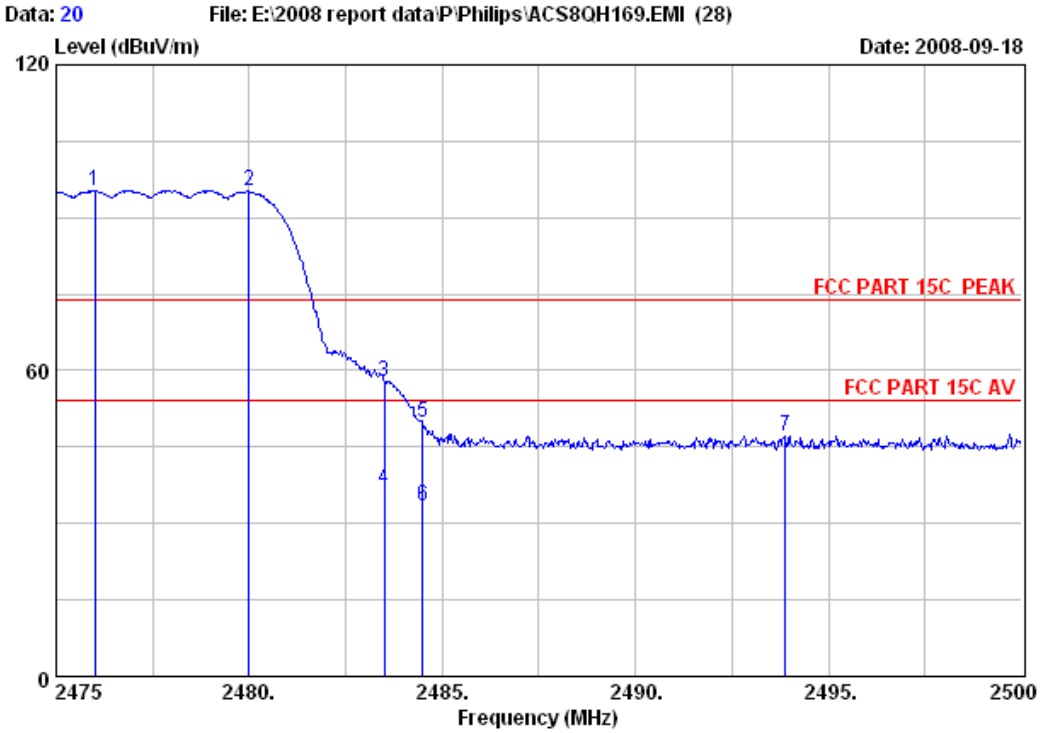

Site no. : 3# Chamber Data no. : 20
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : 8-DPSK hopping on
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2476.00	28.58	6.87	35.16	94.97	95.26	74.00	-21.26	Peak
2	2480.00	28.58	6.87	35.16	94.81	95.10	74.00	-21.10	Peak
3	2483.50	28.58	6.87	35.16	57.58	57.87	74.00	16.13	Peak
4	2483.50	28.58	6.87	35.16	36.54	36.83	54.00	17.17	Average
5	2484.50	28.58	6.87	35.16	49.65	49.94	74.00	24.06	Peak
6	2484.50	28.58	6.87	35.16	33.29	33.58	54.00	20.42	Average
7	2493.88	28.60	6.91	35.15	46.88	47.24	74.00	26.76	Peak

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

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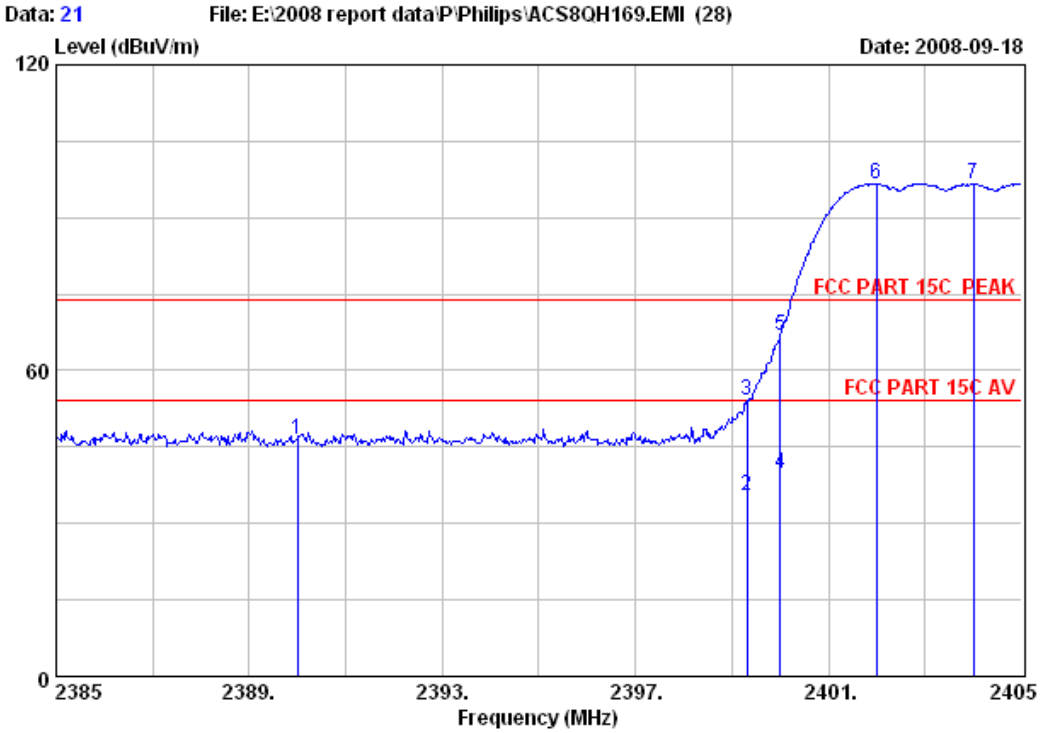

Site no. : 3# Chamber Data no. : 21
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : 8-DPSK hopping on
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.46	6.71	35.18	46.43	46.42	74.00	27.58	Peak
2	2399.32	28.46	6.73	35.18	35.59	35.60	54.00	18.40	Average
3	2399.32	28.46	6.73	35.18	54.13	54.14	74.00	19.86	Peak
4	2400.00	28.46	6.73	35.18	39.89	39.90	54.00	14.10	Average
5	2400.00	28.46	6.73	35.18	66.90	66.91	74.00	7.09	Peak
6	2402.00	28.46	6.73	35.18	96.65	96.66	74.00	-22.66	Peak
7	2404.00	28.48	6.73	35.18	96.53	96.56	74.00	-22.56	Peak

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

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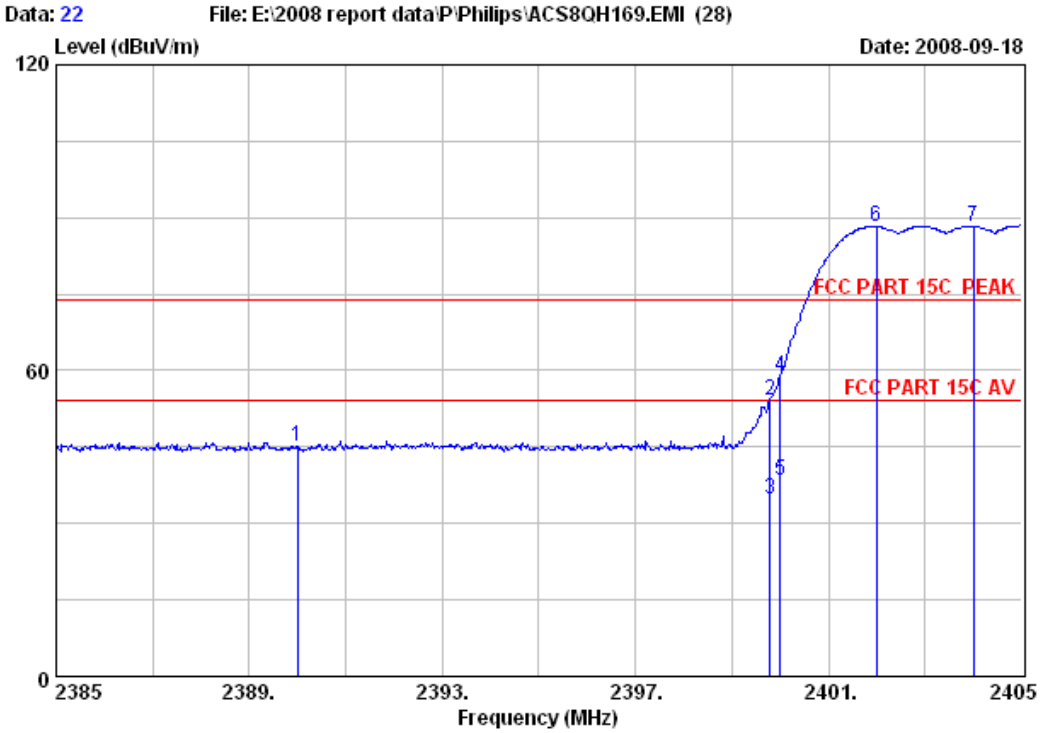

Site no. : 3# Chamber Data no. : 22
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Power
EUT : Digital Audio Player M/N:SA529xBT
Power Rating: DC 5V
Test mode : 8-DPSK hopping on
Memo

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.46	6.71	35.18	45.03	45.02	74.00	28.98	Peak
2	2399.78	28.46	6.73	35.18	54.01	54.02	74.00	19.98	Peak
3	2399.78	28.46	6.73	35.18	34.67	34.68	54.00	19.32	Average
4	2400.00	28.46	6.73	35.18	58.83	58.84	74.00	15.16	Peak
5	2400.00	28.46	6.73	35.18	38.59	38.60	54.00	15.40	Average
6	2402.00	28.46	6.73	35.18	88.18	88.19	74.00	-14.19	Peak
7	2404.00	28.48	6.73	35.18	88.24	88.27	74.00	-14.27	Peak

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

11.MPE ESTIMATION

11.1.Limit for General Population / Uncontrolled Exposures

Frequency	Power density (mW/cm²)	Averaging time (minutes)
300MHz~1.5GHz	F/1500	30
1.5GHz~100GHz	1.0	30

Frequency (MHz)	Power density (mW/cm²)	Averaging time (minutes)
2402	0.60	30
2441	0.61	30
2480	0.62	30

Note: F = Frequency in MHz

11.2.Estimation Result

GFSK:

Channel	Frequency(MHz)	Peak output power(dBm)	antenna gain(dBi)	antenna gain (Linear)
CH1	2402	1.25	1.7	1.48
CH40	2441	1.81	1.7	1.48
CH79	2480	1.62	1.7	1.48

Channel	Frequency(MHz)	Peak output power to antenna (mW)	Power density at 20cm(mW/ cm^2)
CH1	2402	1.33	0.00039
CH40	2441	1.52	0.00045
CH79	2480	1.45	0.00043

8-DPSK:

Channel	Frequency(MHz)	Peak output power(dBm)	antenna gain(dBi)	antenna gain (Linear)
CH1	2402	-0.43	1.7	1.48
CH40	2441	0.72	1.7	1.48
CH79	2480	0.83	1.7	1.48

Channel	Frequency(MHz)	Peak output power to antenna (mW)	Power density at 20cm(mW/ cm^2)
CH1	2402	0.91	0.00027
CH40	2441	1.18	0.00035
CH79	2480	1.21	0.00036

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]