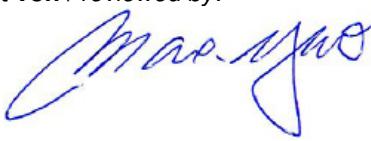


<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	16060215 001	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	174023970	Seite 1 von 24 <i>Page 1 of 24</i>	
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	450812	<b>Auftragsdatum:</b> <i>Order date.:</i>	02 Jul. 2014		
<b>Auftraggeber:</b> <i>Client:</i>	Bang & Olufsen a/s Peter Bangs Vej 15, 7600 Struer, Denmark				
<b>Prüfgegenstand:</b> <i>Test item:</i>	Bluetooth Speaker	<b>FCC ID:</b> <i>FCC ID:</i>	TTUBEOPLAYA2		
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	BeoPlay A2	<b>IC ID:</b> <i>IC ID:</i>	3775B-BEOPLAYA2		
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	TUV Rheinland - EMC service				
<b>Prüfgrundlage:</b> <i>Test specification:</i>	ANSI C63.4: 2009 FCC Part 15: 2013-10 Subpart C section 15.207, 15.209 and 15.247 RSS-210: 2010-12				
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	31.Mar.2014				
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	N/A				
<b>Prüfzeitraum:</b> <i>Testing period:</i>	Refer to test report				
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	Refer to section 2.1				
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland (Guangdong) Ltd.				
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass				
<b>geprüft von / tested by:</b>	<b>kontrolliert von / reviewed by:</b>				
22 Jul. 2014 Amy Wang/ Senior Project Engineer					
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>
<b>Sonstiges / Other:</b>					
BT 4.0 LE (Low energy) technology.					
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(fail) = entspricht nicht o.g. Prüfgrundlage(n) Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(fail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested					
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

## TEST SUMMARY

**5.1.1 ANTENNA REQUIREMENT**

*RESULT:* Pass

**5.1.2 PEAK OUTPUT POWER**

*RESULT:* Pass

**5.1.3 6dB BANDWIDTH AND 99% BANDWIDTH**

*RESULT:* Pass

**5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHz BANDWIDTH**

*RESULT:* Pass

**5.1.5 POWER SPECTRAL DENSITY**

*RESULT:* Pass

**5.1.6 RADIATED SPURIOUS EMISSION**

*RESULT:* Pass

**5.1.7 CONDUCTED EMISSION**

*RESULT:* Pass

**5.1.8 BAND-EDGE EMISSION**

*RESULT:* Pass

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## **1. General Remarks**

### **1.1 Complementary Materials**

All attachments are integral parts of this test report. This applies especially to the following appendix:  
Appendix 1: Test Results

## **2. Test Sites**

### **2.1 Test Facilities**

EST Technology Co., Ltd.  
Santun(guantai Road), Houjie Town, DongGuan City, GuangDong, China.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	July,30,13	1 year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	July,30,13	1 year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	July,25,13	1 year
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	July,23,13	1 year
Spectrum Analyzer	Agilent	E4411B	MY50140697	July,23,13	1 year
Bilog Antenna	Teseq	CBL 6111D	27090	July,29,13	1 year
Signal Amplifier	Agilent	310N	187037	July,23,13	1 year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120D1002	July,29,13	1 year
Signal Amplifier	SCHWARZBECK	BBV9718	9718-212	July,23,13	1 year
Spectrum Analyzer	Agilent	E4408B	MY44211139	July,23,13	1 year
RF Cable	Hubersuhner	RG 214/U	513423	July,21,13	1 year

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

## 2.5 Measurement Uncertainty

**Table 2: Measurement Uncertainty**

Parameter	Uncertainty
Conducted Radio Spectrum	2.10 dB
Conducted Emission	2.54 dB
Radiated Emission (30MHz-1GHz)	3.62 dB
Radiated Emission (Above 1GHz)	4.11 dB

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

EST Technology Co., Ltd.

Santun(guantai Road), Houjie Town, DongGuan City, GuangDong, China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements, the register no. 989591.

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The tested sample is a "Bluetooth speaker" with model numbers "BeoPlay A2" for new approval, which is intended to enable Bluetooth connectivity with Notebook or smart phone, and play the music from Bluetooth device.

For details refer to the Technical Documentation or User manual.

#### 3.2 Ratings and System Details

**Table 3: Technical Specification of Bluetooth (BDR & EDR mode)**

Technical Specification	Value
Kind of Equipment	Bluetooth Speaker
Type Designation	BeoPlay A2
FCC ID	TTUBEOPLAYA2
IC ID	3775B-BEOPLAYA2
Operating Frequency band	2402MHz~2480MHz
Channel separation	2MHz
Operation Voltage	Adapter Input: 100~240Vac, 50/60Hz; Adapter Output: 15Vdc; 7.2Vdc from Internal battery
Modulation	Bluetooth V4.0 BLE: GFSK
Bluetooth version	4.0 (dual mode)
Antenna Gain	2.55 dBi

**Table 4: RF channel and frequency of Buletooth (LE mode)**

RF Channel	Frequency (MHz)						
0	2402.00	11	2424.00	22	2446.00	33	2468.00
1	2404.00	12	2426.00	23	2448.00	34	2470.00
2	2406.00	13	2428.00	24	2450.00	35	2472.00
3	2408.00	14	2430.00	25	2452.00	36	2474.00
4	2410.00	15	2432.00	26	2454.00	37	2476.00
5	2412.00	16	2434.00	27	2456.00	38	2478.00
6	2414.00	17	2436.00	28	2458.00	39	2480.00
7	2416.00	18	2438.00	29	2460.00		
8	2418.00	19	2440.00	30	2462.00		
9	2420.00	20	2442.00	31	2464.00		
10	2422.00	21	2444.00	32	2466.00		

### **3.3 Independent Operation Modes**

The basic operation modes are:

- A. On
  - 1. Bluetooth mode (LE mode)
    - a. Transmitting
      - i. Low Channel
      - ii. Middle Channel
      - iii. High Channel
    - b. Receiving

### **3.4 Noise Generating and Noise Suppressing Parts**

Refer to the Circuit Diagram.

### **3.5 Submitted Documents**

- |  |   |
|--|---|
| - Bill of Material<br>- PCB Layout<br>- Photo Document | - Circuit Diagram<br>- Instruction Manual<br>- Rating Label |
|--|---|

## **4. Test Set-up and Operation Modes**

### **4.1 Principle of Configuration Selection**

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

### **4.2 Test Operation and Test Software**

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2009.

### **4.3 Special Accessories and Auxiliary Equipment**

N/A

### **4.4 Countermeasures to achieve EMC Compliance**

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram 1 of Configuration for Testing Radiated Emission 30MHz -1 GHz

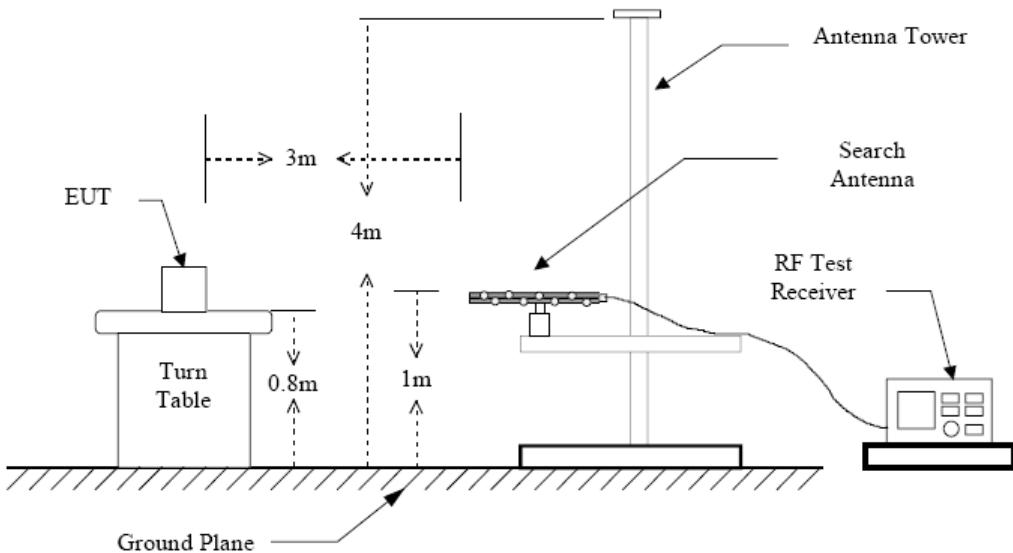


Diagram 2 of Configuration for Testing Radiated Emission above 1 GHz

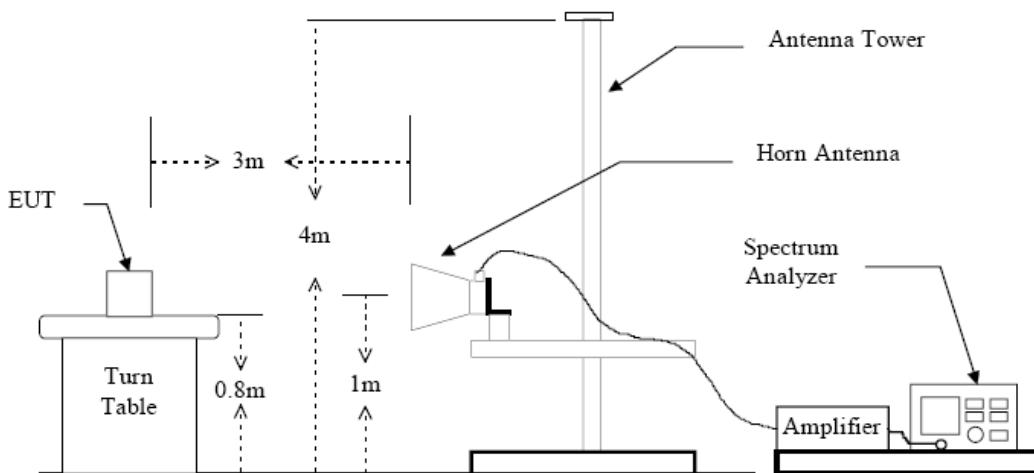


Diagram 3 of Configuration for Testing Conducted Emission

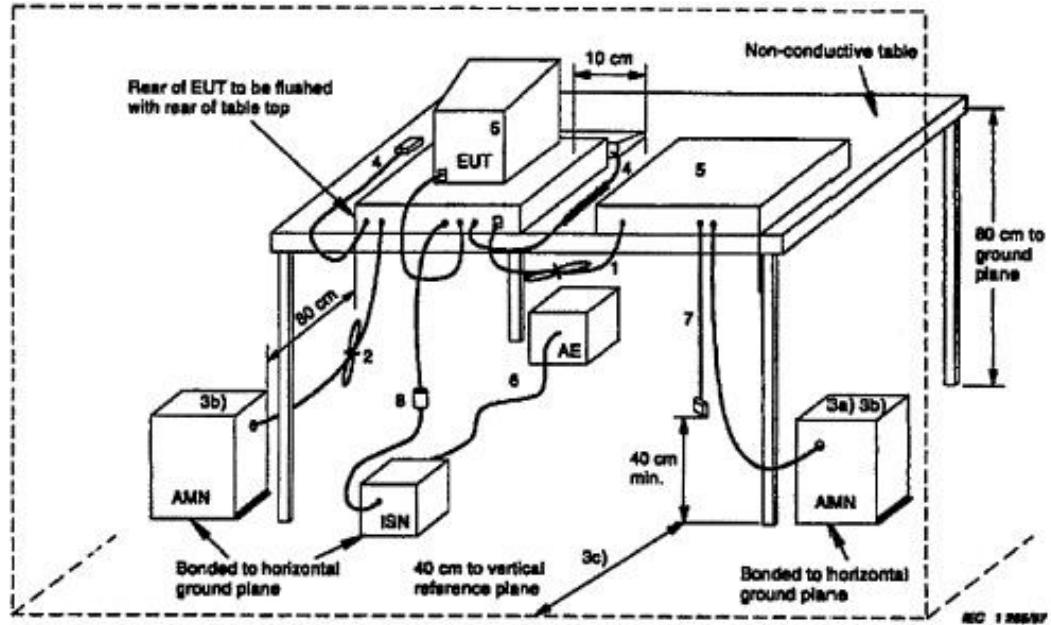
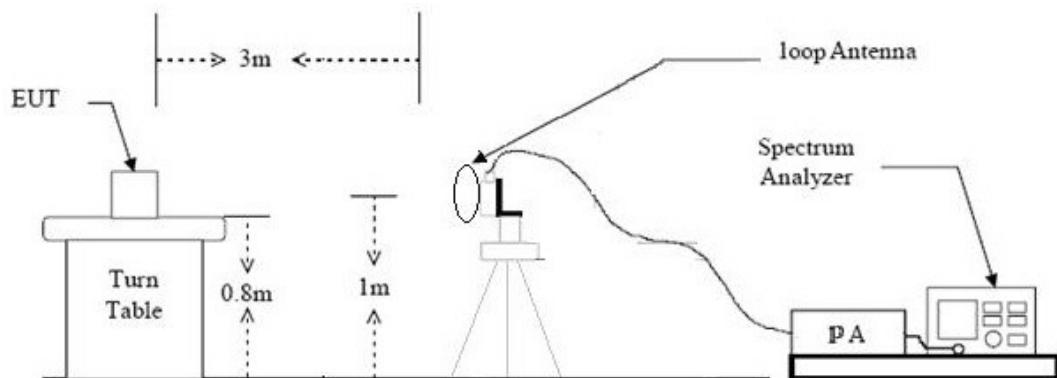
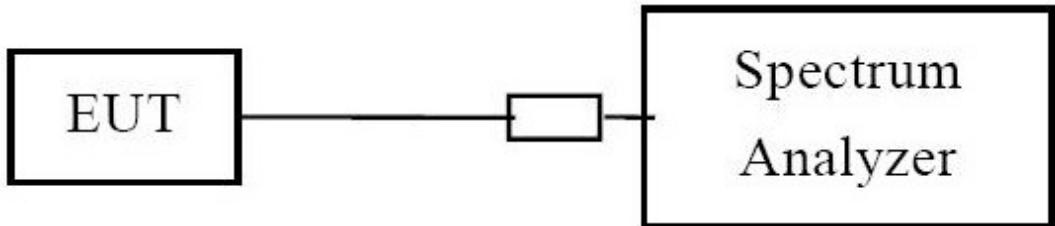


Diagram 4 of Configuration for Testing Radiated Emission below 30MHz



**Diagram 5 of Configuration for testing other test items**



## **5. Test Results**

### **5.1 Transmitter Requirement & Test Suites**

#### **5.1.1 Antenna Requirement**

**RESULT:**

**Pass**

Test standard	:	FCC Part 15.247(b)(4) and Part 15.203 RSS-Gen 7.1.4
Limit		The use of antennas with directional gains that do not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 2.55 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

## 5.1.2 Peak Output Power

### RESULT:

**Pass**

Test date	:	2014-06-07
Test standard	:	FCC Part 15.247(b)(1) FCC Part 15.247(b)(3) RSS-210 A8.4
Basic standard	:	ANSI C63.4: 2009 Clause 9.1 of KDB 558074 v03r01
Limit	:	125mW, 1W
Kind of test site	:	Shielded room

### Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25.3°C
Relative humidity	:	58%
Atmospheric pressure	:	101kPa

**Table 5: Test result of Peak Output Power of Bluetooth (LE mode)**

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	1.980	30
Middle Channel	2440	5.091	30
High Channel	2480	5.357	30

For details refer to test plots in Appendix 1.

### 5.1.3 6dB Bandwidth and 99% Bandwidth

#### RESULT:

**Pass**

Date of testing	:	2014-06-07
Test standard	:	FCC Part 15.247(a)(2) RSS-210 A8.2
Basic standard	:	ANSI C63.4: 2009 Clause 8 of KDB 558074 v03r01
Kind of test site	:	Shielded room

#### Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25.3°C
Relative humidity	:	58%
Atmospheric pressure	:	101kPa

**Table 6: Test result of 6dB & 99% Bandwidth of Bluetooth, LE mode**

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.750	1.073
Mid Channel	2440	0.756	1.078
High Channel	2480	0.752	1.079

For details refer to test plots in Appendix 1.

### **5.1.4 Conducted Spurious Emissions measured in 100kHz Bandwidth**

#### **RESULT:**

**Pass**

Date of testing	:	2014-06-07
Test standard	:	FCC part 15.247(d) RSS-210 A8.5
Basic standard	:	ANSI C63.4: 2009
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
Kind of test site	:	Shield room

#### **Test setup**

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a
Ambient temperature	:	25.3°C
Relative humidity	:	58%
Atmospheric pressure	:	101kPa

For details refer to test plots in Appendix 1.

### 5.1.5 Power spectral density

#### RESULT:

**Pass**

Date of testing	:	2014-06-07
Test standard	:	FCC part 15.247(e) RSS-210 A8.2
Basic standard	:	ANSI C63.4: 2009 Clause 10 of KDB 558074 v03r01
Limit	:	8dBm/3kHz
Kind of test site	:	Shield room

#### Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a
Ambient temperature	:	25.3°C
Relative humidity	:	58%
Atmospheric pressure	:	101kPa

**Table 7: Test result of power spectral density:**

Mode	Channel (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Conclusion
Bluetooth LE mode	2402	-13.72	8	Pass
	2440	-10.55	8	Pass
	2480	-10.30	8	Pass

For details refer to test plots in Appendix 1.

## 5.1.6 Radiated Spurious Emission

### RESULT:

**Pass**

Date of testing	:	2014-06-03
Test standard	:	FCC part 15.247(d) RSS-Gen 7.2.1
Basic standard	:	ANSI C63.4: 2009 Clause 11 of KDB 558074 v03r01
Limits	:	FCC part 15.209(a); RSS-Gen 7.2.1
Kind of test site	:	3m Semi-Anechoic Chamber

### Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a
Ambient temperature	:	25.6°C
Relative humidity	:	56%
Atmospheric pressure	:	101kPa

For details refer to test plots in Appendix 1.

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### **5.1.7 Conducted emissions**

**RESULT:**

**Pass**

Date of testing	:	2014-05-28
Test standard	:	FCC Part 15.207 RSS-Gen 7.2.4
Basic standard	:	ANSI C63.4: 2009
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207 RSS-Gen 7.2.4
Kind of test site	:	Shield room

**Test setup**

Input Voltage	:	AC 120V, 60Hz
Operation Mode	:	A
Earthing	:	Not Connected
Ambient temperature	:	25.3°C
Relative humidity	:	58%
Atmospheric pressure	:	101kPa

For details refer to test plot in Appendix 1.

### **5.1.8 Band-edge Emission**

#### **RESULT:**

**Pass**

Date of testing	:	2014-05-31
Test standard	:	FCC part 15.247(d) RSS-210 Clause 2.2
Basic standard	:	ANSI C63.4: 2009 Clause 11 of KDB 558074 v03r01
Limits	:	FCC part 15.209(a)
Kind of test site	:	3m Semi-Anechoic Chamber

#### **Test setup**

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a
Ambient temperature	:	25.6°C
Relative humidity	:	56%
Atmospheric pressure	:	101kPa

For details refer to test plots in Appendix 1.

## **6. Safety Human exposure**

### **6.1.1 Radio Frequency Exposure Compliance**

**RESULT:**

**Pass**

Test standard: RSS-102 Issue 4  
FCC KDB Publication 447498

The maximum peak output power of the transmitter is 3.433 mW only, which less than 20mW.

Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 4.

The minimum distance for the EUT is 5mm, since maximum peak output power of the transmitter is  $3.433 \text{ mW} < 10 \text{ mW}$ , hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure Guidance v05.

## **7. Photographs of the Test Set-Up**

**Photograph 1: Set-up for Conducted Emissions**

**Photograph 2: Set-up for Radiated Spurious Emissions, 30MHz-1GHz**

**Photograph 3: Set-up for Radiated Spurious Emissions, Above 1GHz**

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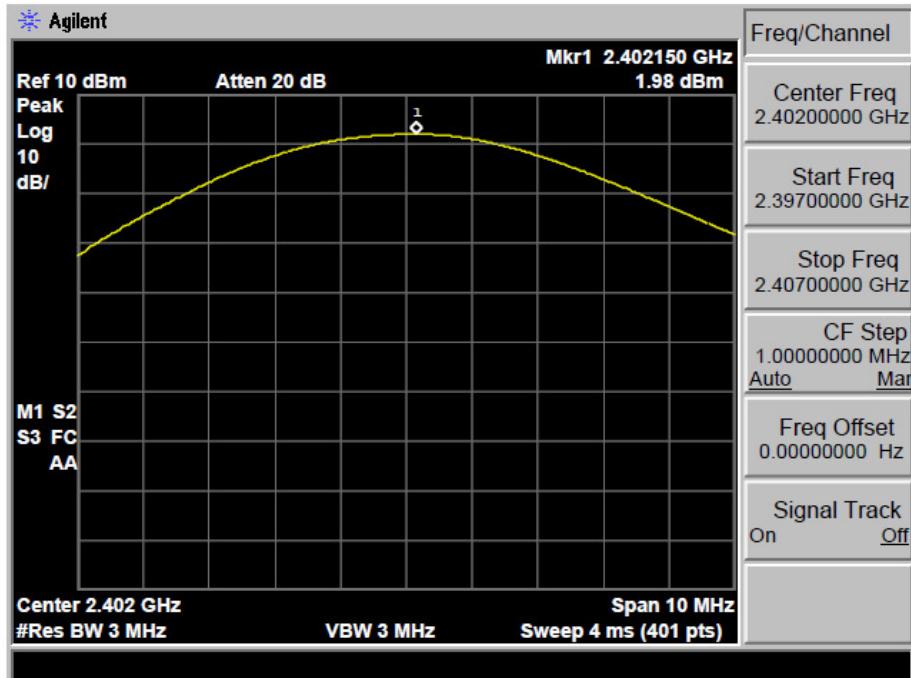
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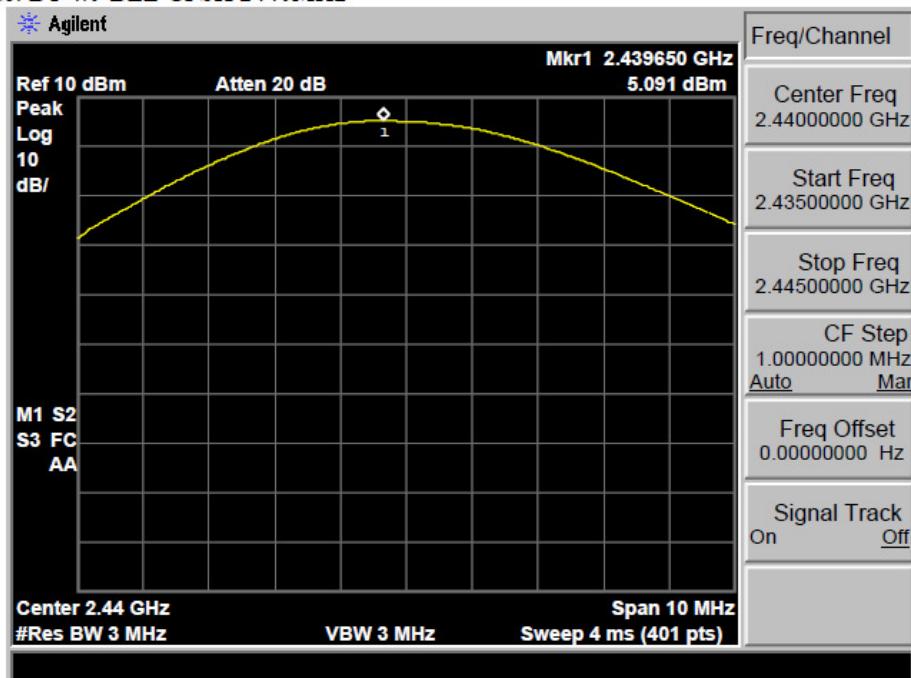
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1. Peak Output Power

Test Mode: BT 4.0-BLE GFSK 2402MHz



Test Mode: BT 4.0-BLE GFSK 2440MHz



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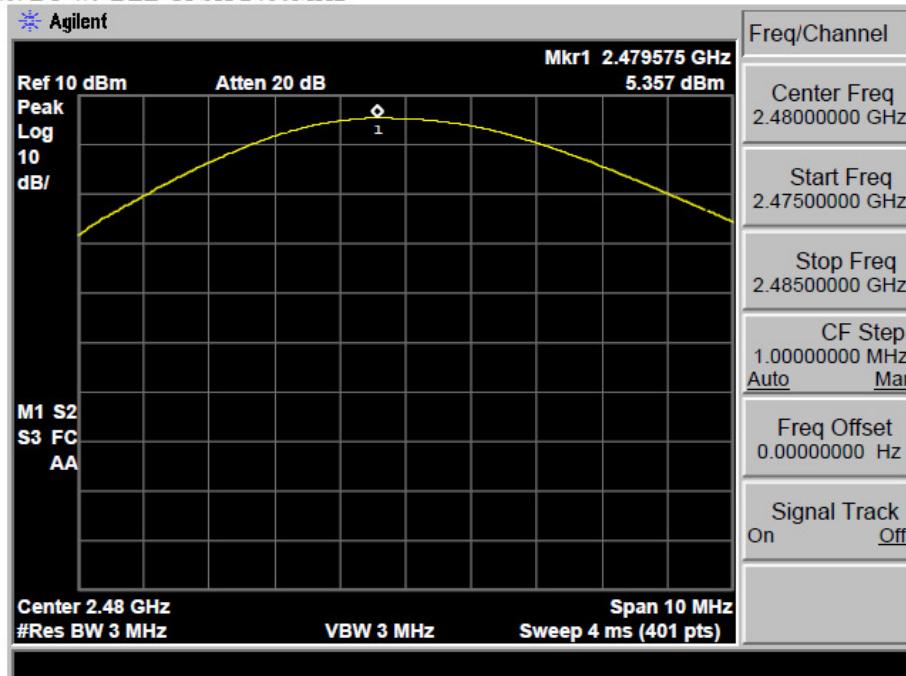
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Test Mode: BT 4.0-BLE GFSK 2480MHz



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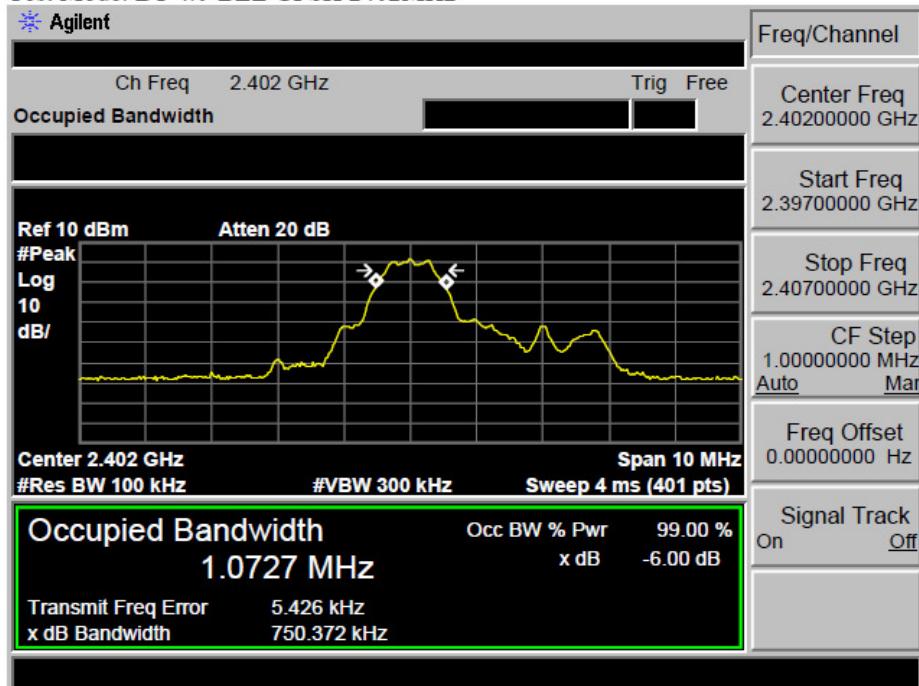
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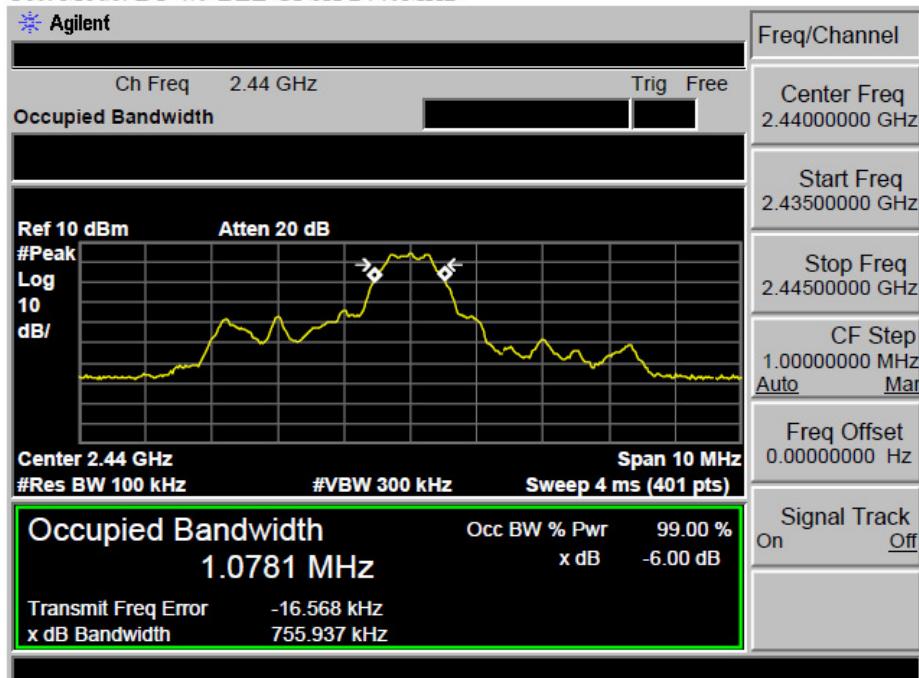
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2. 6dB Bandwidth and 99% Bandwidth

Test Mode: BT 4.0-BLE GFSK 2402MHz



Test Mode: BT 4.0-BLE GFSK 2440MHz



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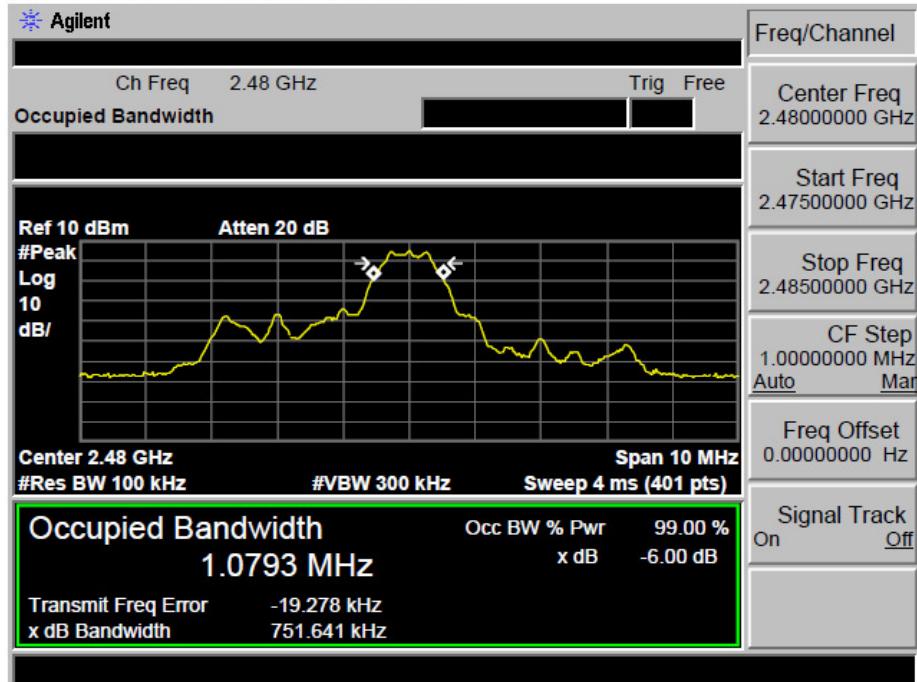
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Test Mode: BT 4.0-BLE GFSK 2480MHz

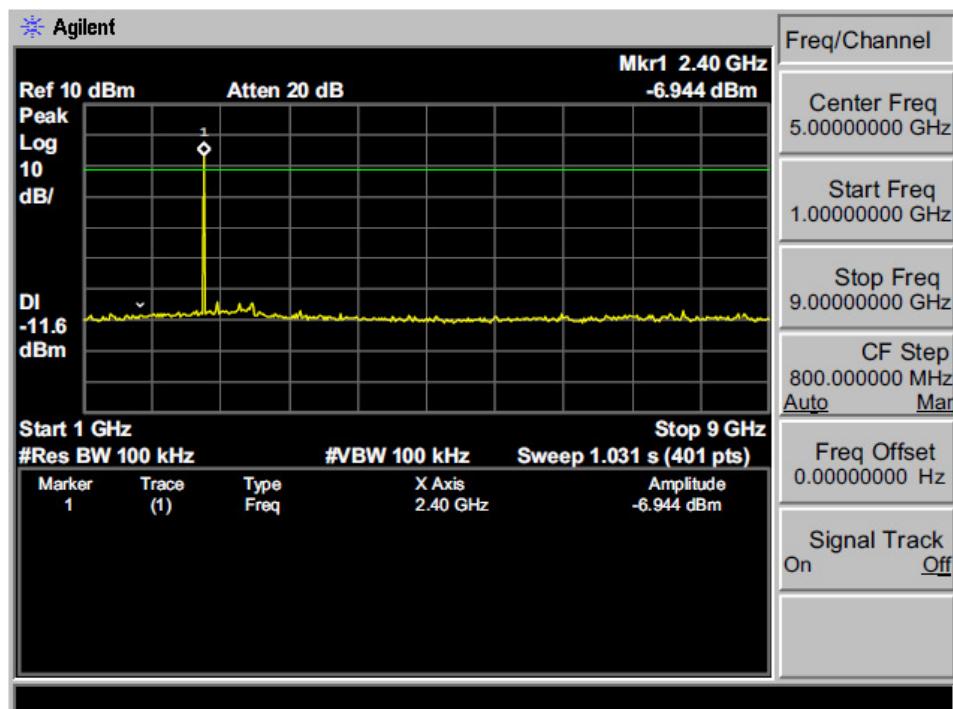
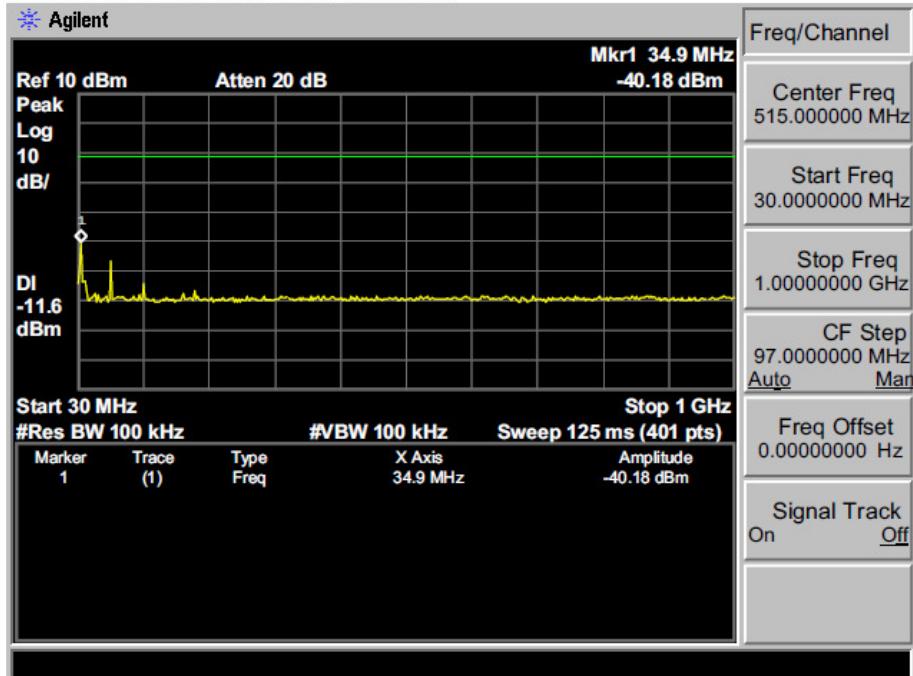


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3. Conducted Spurious Emissions measured in 100kHz Bandwidth

Test Mode: BT 4.0-BLE GFSK 2402MHz



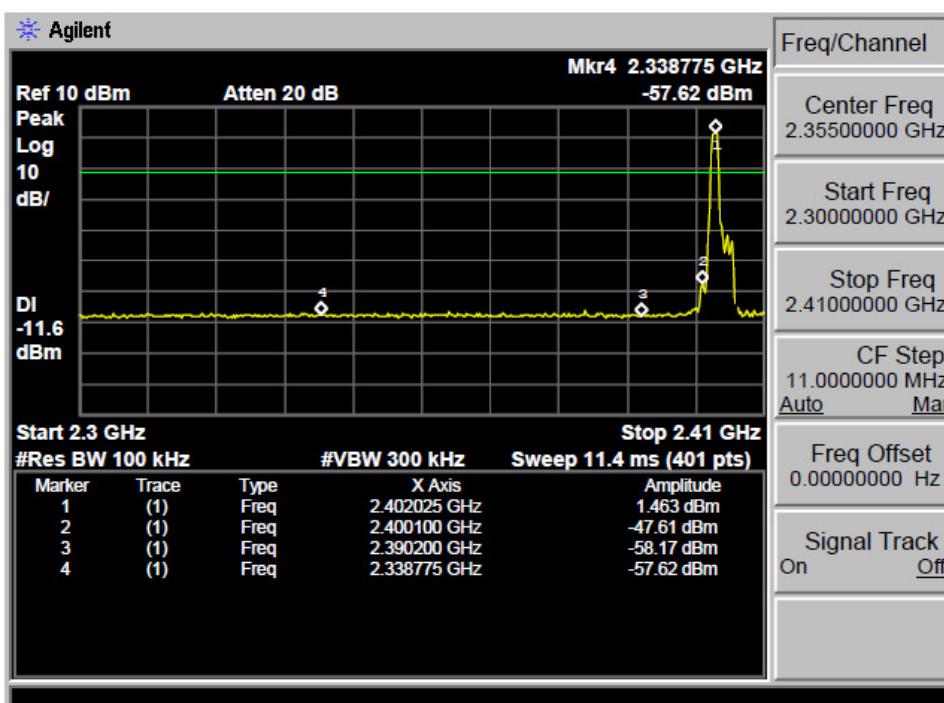
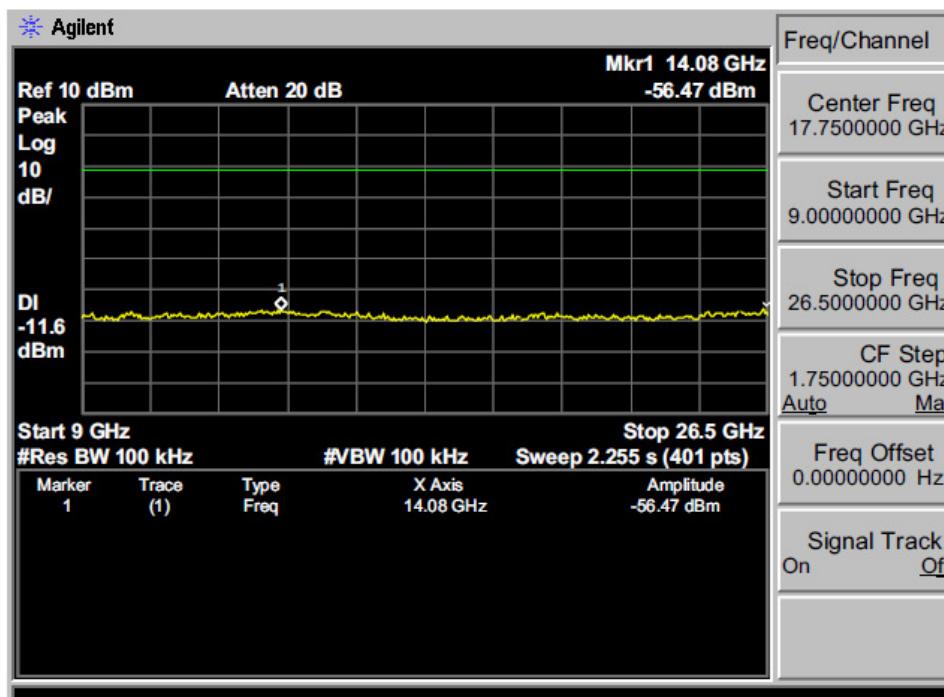
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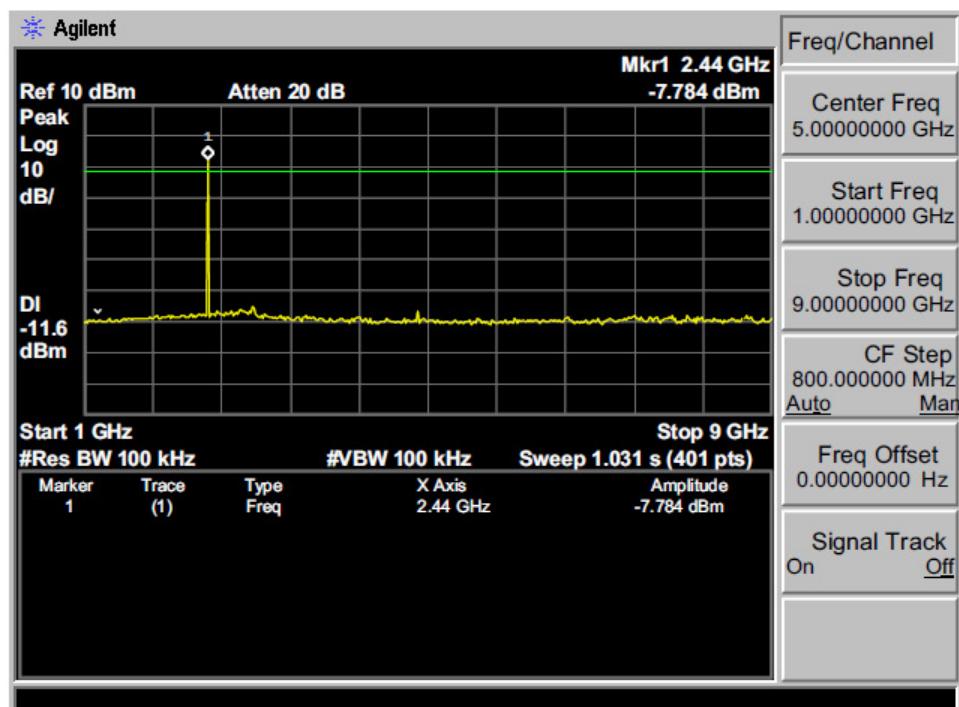
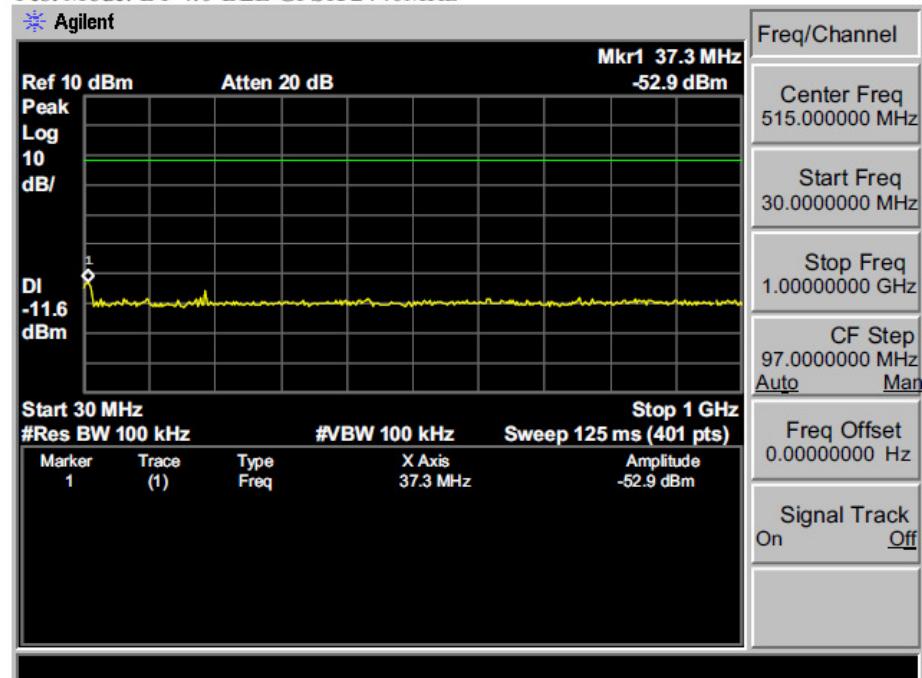
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Test Mode: BT 4.0-BLE GFSK 2440MHz



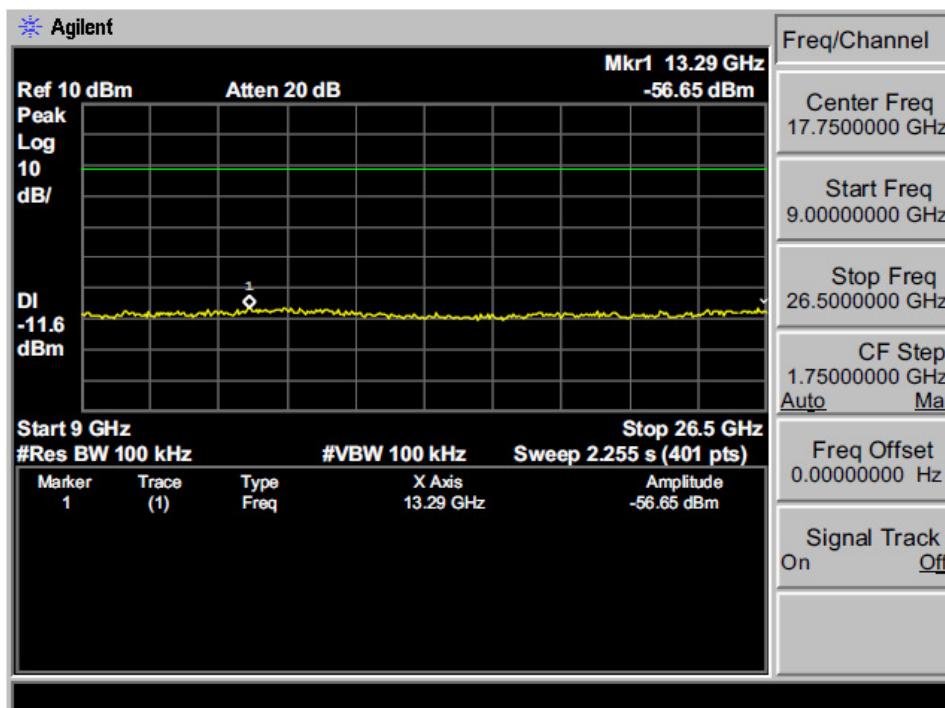
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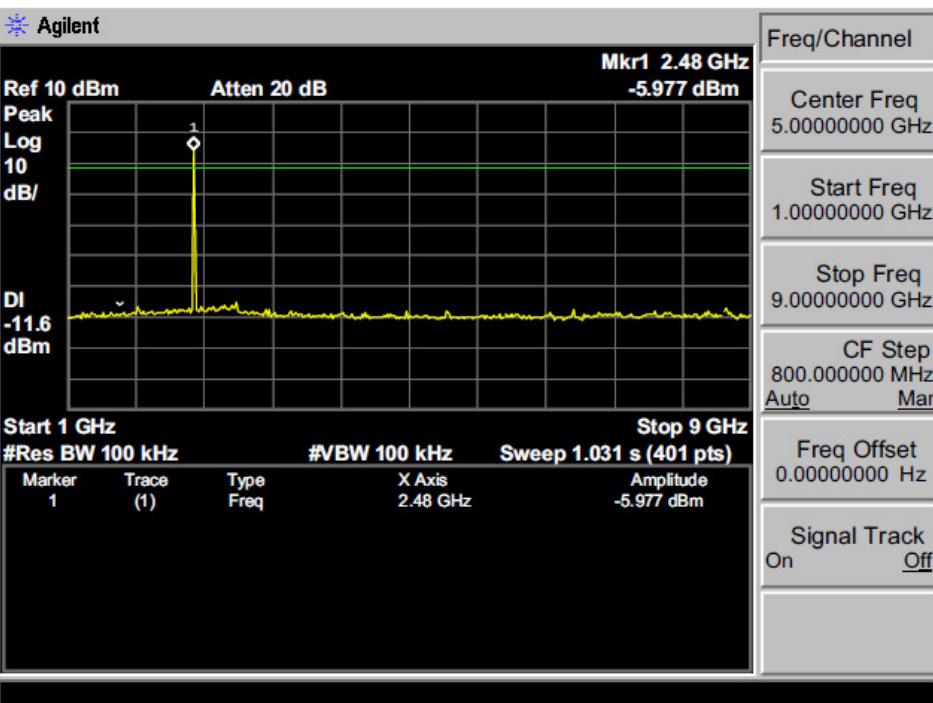
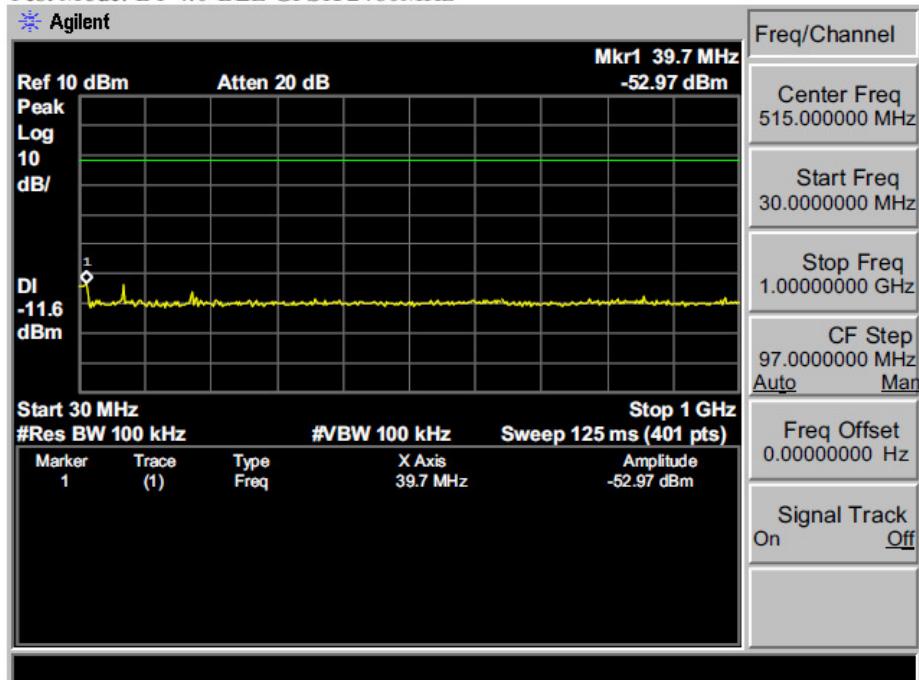
16060215 001

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Test Mode: BT 4.0-BLE GFSK 2480MHz



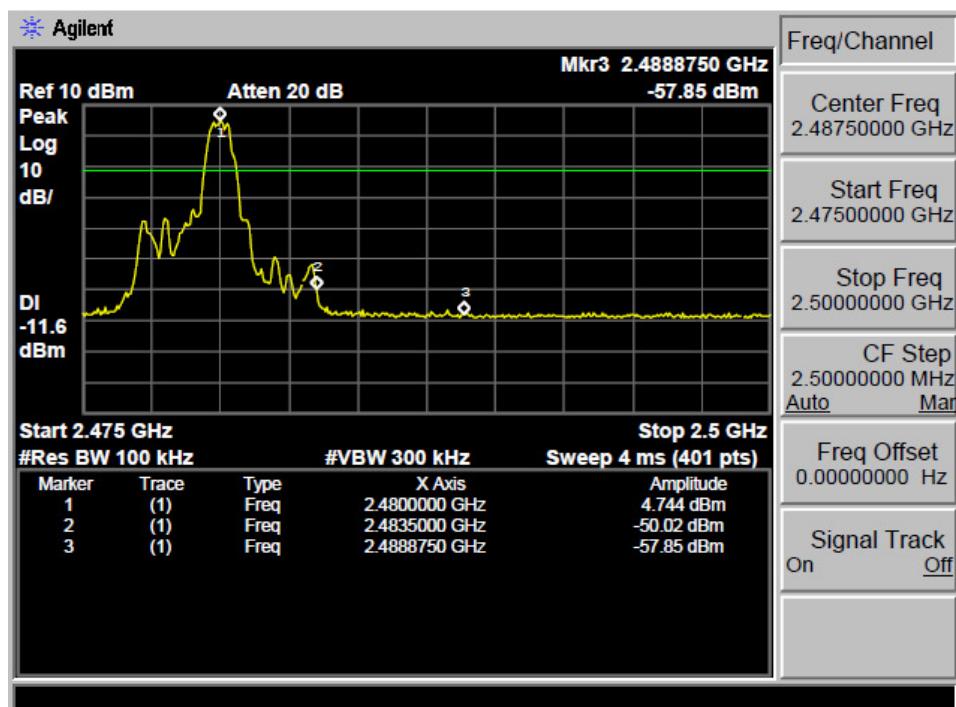
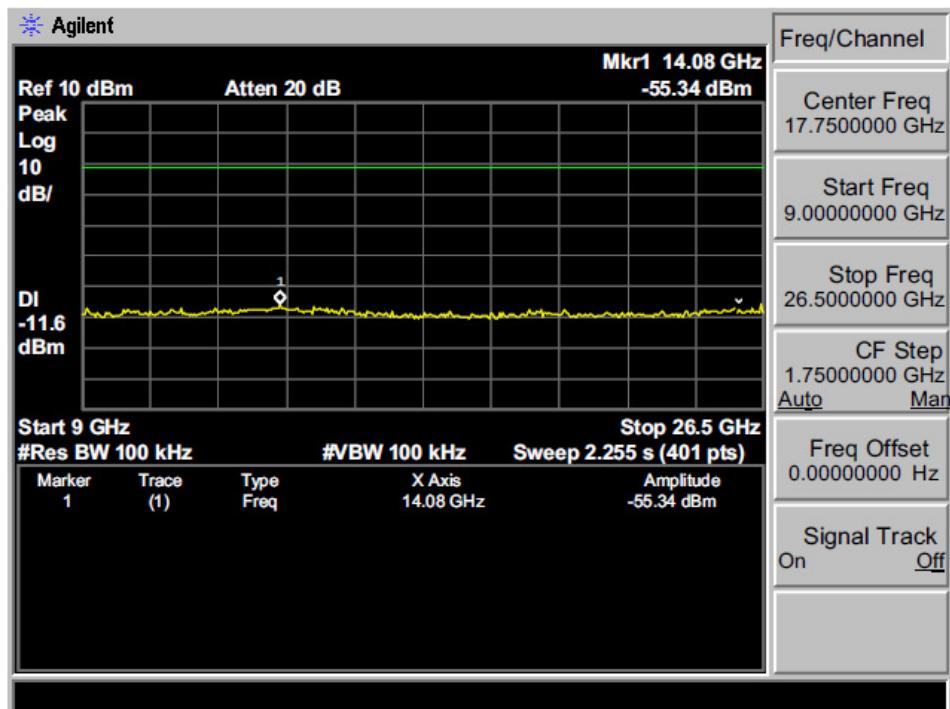
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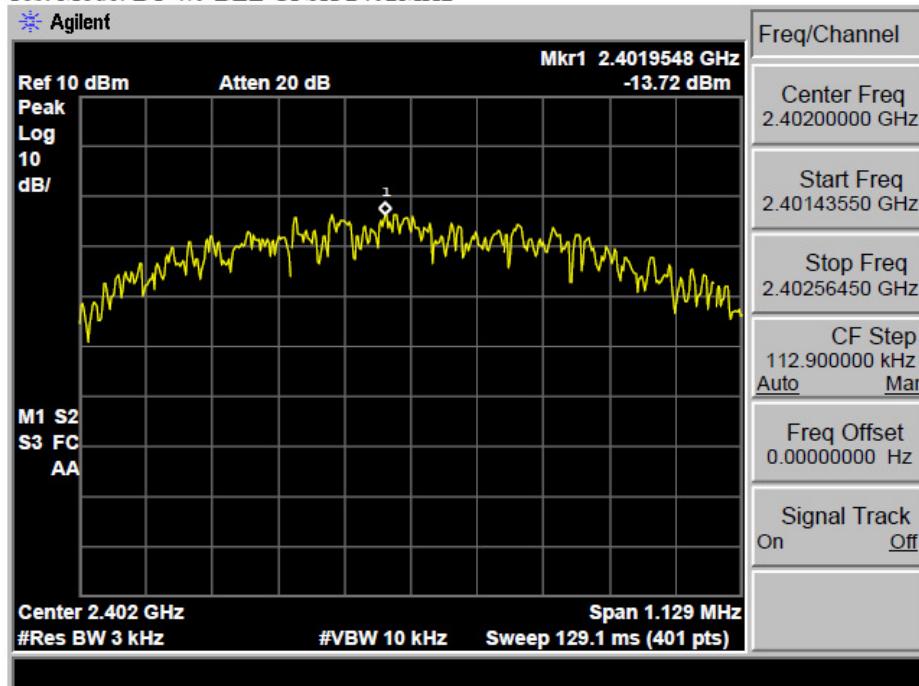
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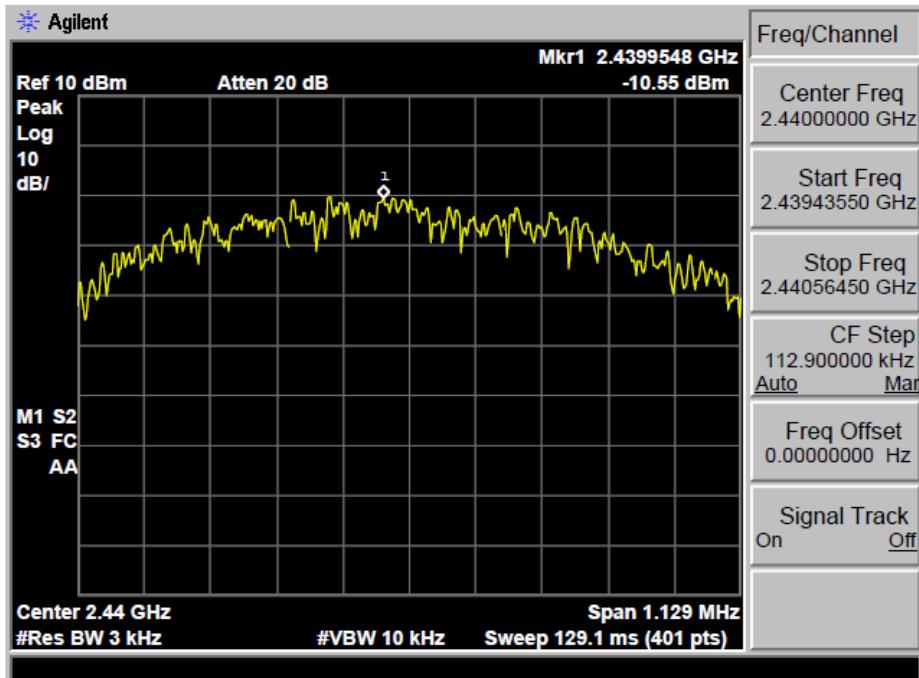
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4. Power spectral density

Test Mode: BT 4.0-BLE GFSK 2402MHz



Test Mode: BT 4.0-BLE GFSK 2440MHz



Prüfbericht - Nr.:

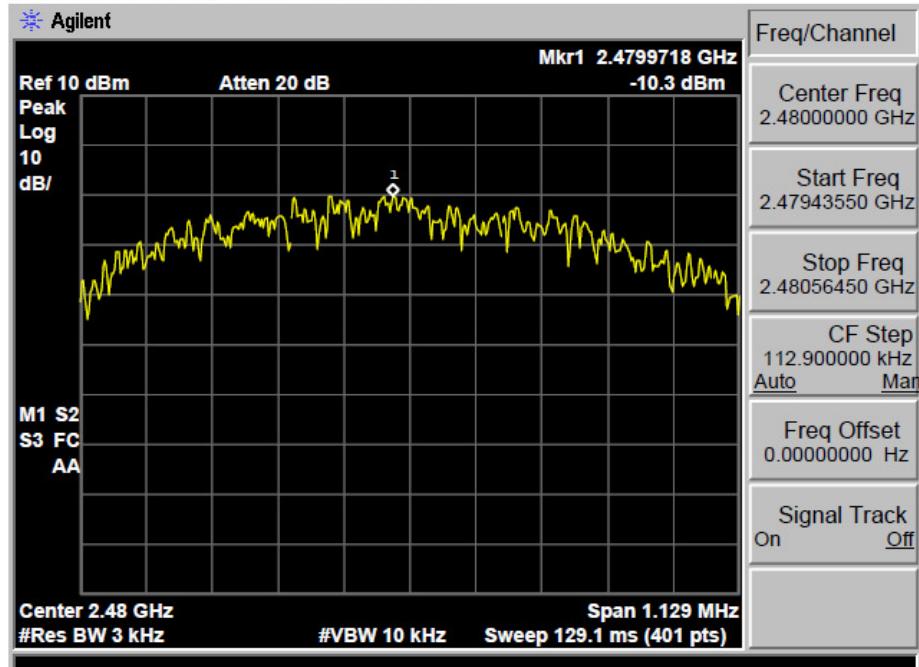
16060215 001

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Test Mode: BT 4.0-BLE GFSK 2480MHz



Prüfbericht - Nr.:

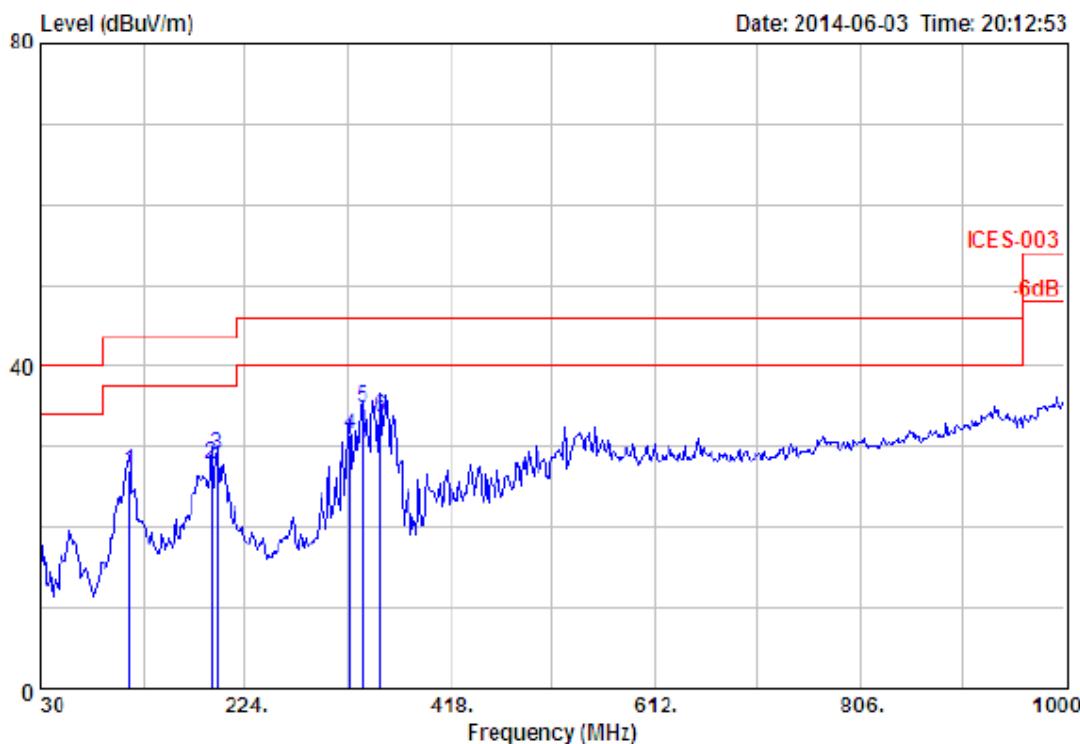
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5. Radiated Spurious Emission



Site no. : 3m Chamber Data no. : 843  
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
Limit : ICES-003  
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa  
Engineer : Tony  
EUT : Bluetooth Speaker  
Power : DC 15V From Adapter Input AC 120V/60Hz  
M/N : BeoPlay A2  
Test Mode : GFSK TX 2402MHz

Ant.	Cable	Emission					
		Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dB <sub>UV</sub> )	Level (dB <sub>UV</sub> /m)	Limits (dB <sub>UV</sub> /m)
1	114.39	10.85	3.26	12.77	26.88	43.50	16.62 QP
2	191.99	7.85	4.22	15.75	27.82	43.50	15.68 QP
3	196.84	7.72	4.26	17.08	29.06	43.50	14.44 QP
4	322.94	13.65	5.41	12.28	31.34	46.00	14.66 QP
5	334.58	13.99	5.52	15.18	34.69	46.00	11.31 QP
6	352.04	14.47	5.69	13.40	33.56	46.00	12.44 QP

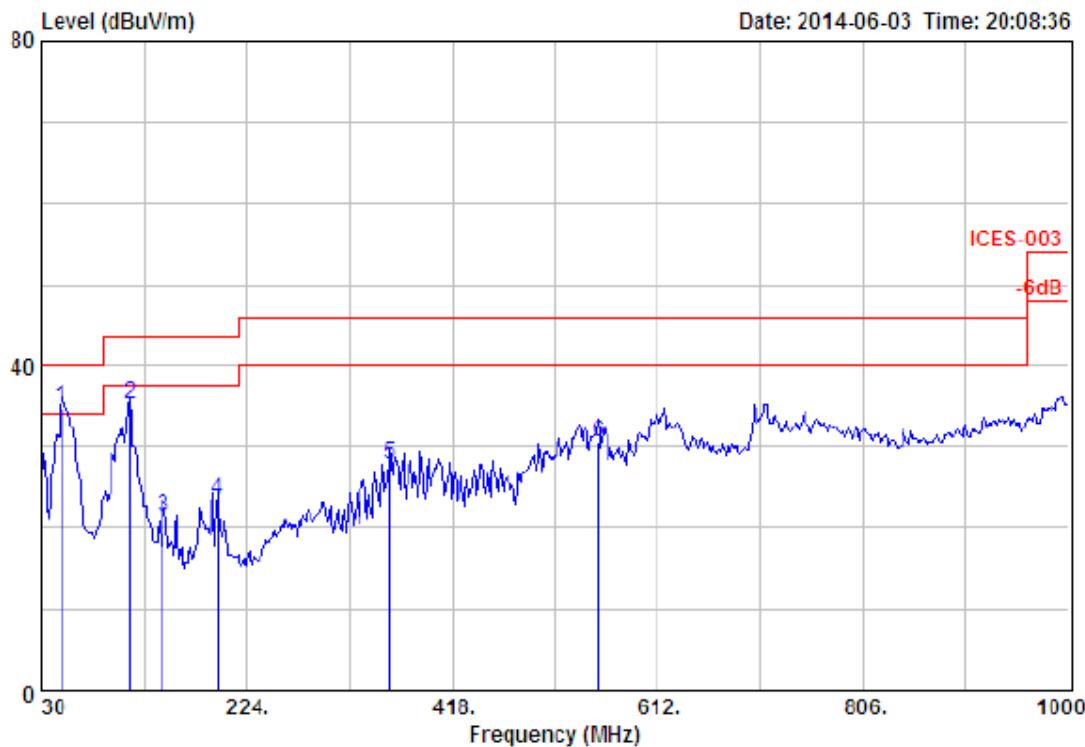
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Site no. : 3m Chamber Data no. : 842  
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : ICES-003

Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : BeoPlay A2

Test Mode : GFSK TX 2402MHz

Ant. Cable Emission

Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dB <sub>B</sub> V)	Level (dB <sub>B</sub> V/m)	Limits (dB <sub>B</sub> V/m)	Margin (dB)	Remark
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1	48.43	8.37	2.30	24.04	34.71	40.00	5.29	QP
2	114.39	10.85	3.26	20.99	35.10	43.50	8.40	QP
3	145.43	11.22	3.73	6.38	21.33	43.50	22.17	QP
4	196.84	7.72	4.26	11.47	23.45	43.50	20.05	QP
5	358.83	14.45	5.73	7.65	27.83	46.00	18.17	QP
6	555.74	19.61	7.08	3.77	30.46	46.00	15.54	QP

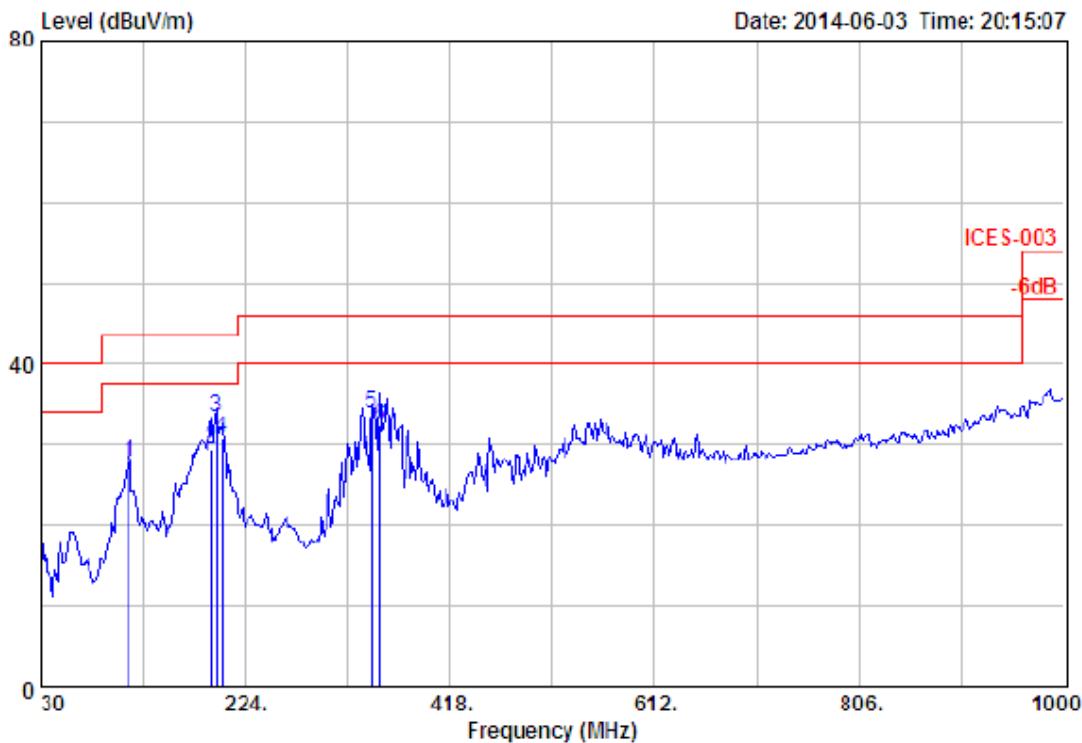
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Site no. : 3m Chamber Data no. : 844  
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
Limit : ICES-003

Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : Beoplay A2

Test Mode : GFSK TX 2440MHz

	Ant.	Cable	Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin
(MHz)	(dB/m)	(dB)	(dB <sub>B</sub> V)	(dB <sub>B</sub> V/m)	(dB <sub>B</sub> V/m)	(dB)

1	114.39	10.85	3.26	13.72	27.83	43.50	15.67	QP
2	191.99	7.85	4.22	17.24	29.31	43.50	14.19	QP
3	196.84	7.72	4.26	21.50	33.48	43.50	10.02	QP
4	202.66	7.83	4.29	18.52	30.64	43.50	12.86	QP
5	344.28	14.28	5.63	14.07	33.98	46.00	12.02	QP
6	352.04	14.47	5.69	12.17	32.33	46.00	13.67	QP

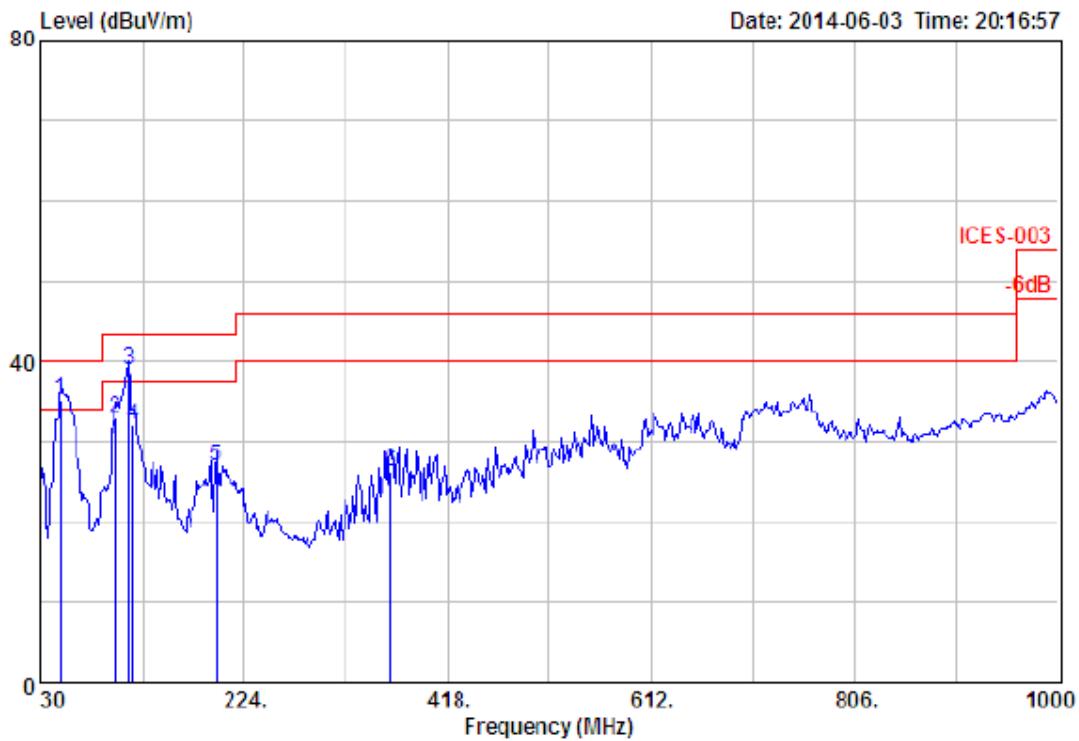
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Site no. : Sm Chamber Data no. : 845  
Dis. / Ant. : Sm 27137 Ant. pol. : VERTICAL

Limit : ICES-003

Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : BeoPlay A2

Test Mode : GFSK TX 2440MHz

Freq. (MHz)	Ant. (dB/m)	Cable (dB)	Emission				
			Factor	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)
1	48.43	8.37	2.30	24.58	35.25	40.00	4.75 QP
2	101.78	9.65	3.07	20.23	32.95	43.50	10.55 QP
3	114.39	10.05	3.26	24.90	39.01	43.50	4.49 QP
4	117.30	11.02	3.32	17.80	32.14	43.50	11.36 QP
5	196.84	7.72	4.26	15.08	27.06	43.50	16.44 QP
6	363.68	14.61	5.72	5.95	26.28	46.00	19.72 QP

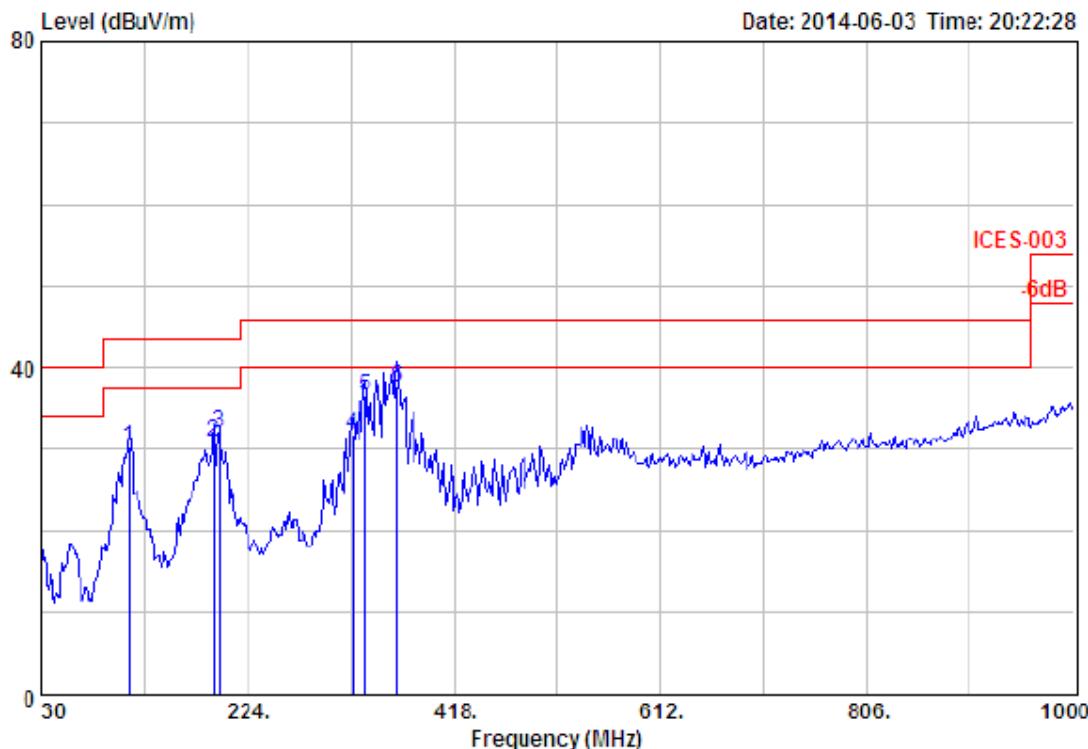
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Site no. : 3m Chamber Data no. : 847  
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
Limit : ICES-003  
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa  
Engineer : Tony  
EUT : Bluetooth Speaker  
Power : DC 15V From Adapter Input AC 120V/60Hz  
M/N : BeoPlay A2  
Test Mode : GFSK TX 2480MHz

	Ant.	Cable	Emission				
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	

1	111.48	10.60	3.22	16.46	30.28	43.50	13.22	QP
2	191.99	7.85	4.22	18.85	30.92	43.50	12.58	QP
3	196.84	7.72	4.26	20.07	32.05	43.50	11.45	QP
4	321.97	13.63	5.39	12.86	31.88	46.00	14.12	QP
5	334.58	13.99	5.52	17.00	36.51	46.00	9.49	QP
6	363.68	14.61	5.72	17.42	37.75	46.00	8.25	QP

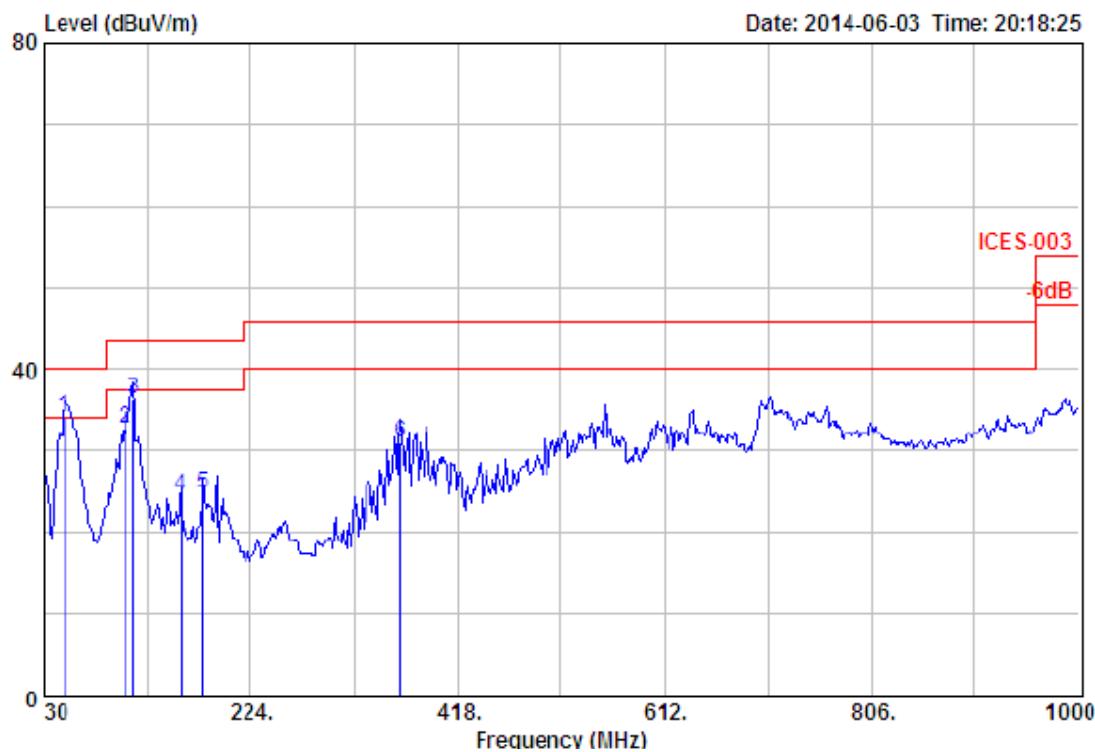
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Site no. : 3m Chamber Data no. : 846

Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : ICES-003

Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : Beoplay A2

Test Mode : GFSK TX 2480MHz

	Ant.	Cable	Emission				
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	

1	48.43	8.37	2.30	23.34	34.01	40.00	5.99	QP
2	106.63	10.15	3.15	19.46	32.76	43.50	10.74	QP
3	114.39	10.85	3.26	22.29	36.40	43.50	7.10	QP
4	158.04	10.48	3.87	10.12	24.47	43.50	19.03	QP
5	179.38	8.96	4.11	11.59	24.66	43.50	18.84	QP
6	363.68	14.61	5.72	10.55	30.88	46.00	15.12	QP

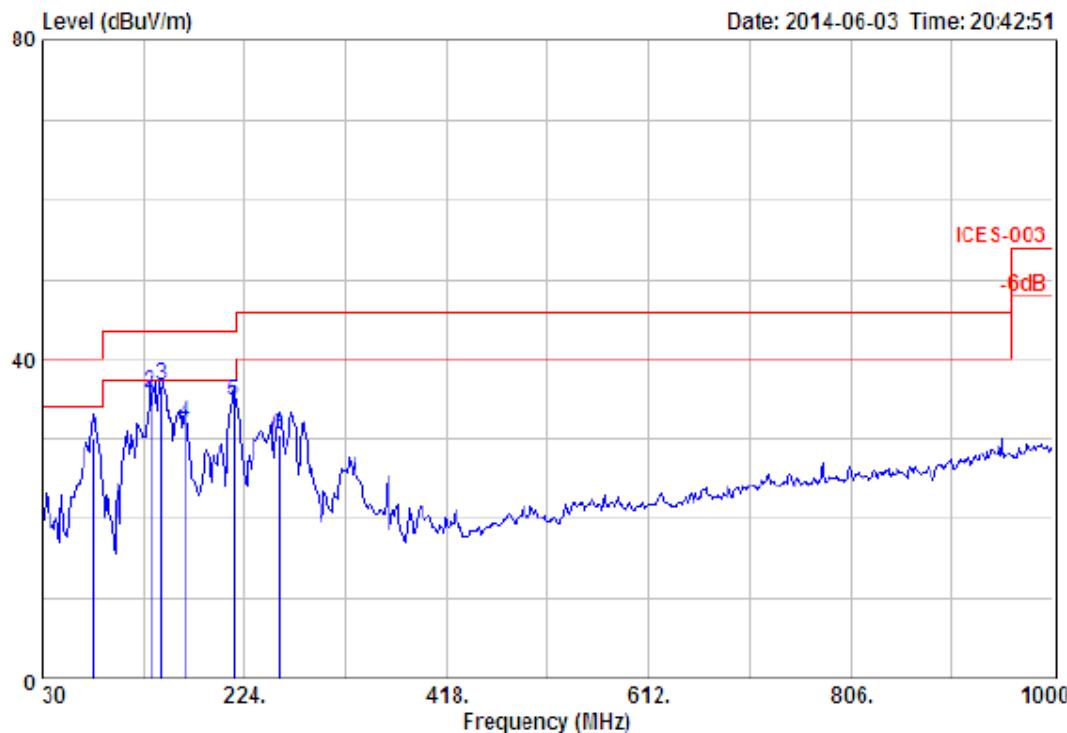
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Site no. : 3m Chamber Data no. : 848

Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : ICES-003

Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : Beoplay A2

Test Mode : RX Mode

Ant. Cable Emission

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dB <sub>UV</sub> )	Level (dB <sub>UV</sub> /m)	Limits (dB <sub>UV</sub> /m)	Margin (dB)	Remark
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1	80.44	7.07	1.25	21.78	30.10	40.00	9.90	QP
2	133.79	11.36	1.56	23.05	35.97	43.50	7.53	QP
3	145.43	11.22	1.53	23.93	36.68	43.50	6.82	QP
4	167.74	9.43	1.71	20.93	32.07	43.50	11.43	QP
5	214.30	8.65	1.96	24.09	34.70	43.50	8.80	QP
6	256.98	12.63	2.17	15.68	30.48	46.00	15.52	QP

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Site no. : 3m Chamber Data no. : 849  
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
Limit : ICES-003

Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : BeoPlay A2

Test Mode : RX Mode

Ant. Cable Emission

Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dB <sub>UV</sub> )	Level (dB <sub>UV</sub> /m)	Limits (dB <sub>UV</sub> /m)	Margin (dB)	Remark
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1	31.94	17.14	0.69	16.29	34.12	40.00	5.88	QP
2	48.43	8.37	0.98	24.59	33.94	40.00	6.06	QP
3	77.53	6.80	1.20	22.40	30.40	40.00	9.60	QP
4	143.49	11.29	1.55	19.06	31.90	43.50	11.60	QP
5	216.24	8.80	1.95	23.02	33.77	46.00	12.23	QP
6	271.53	12.49	2.29	9.83	24.61	46.00	21.39	QP

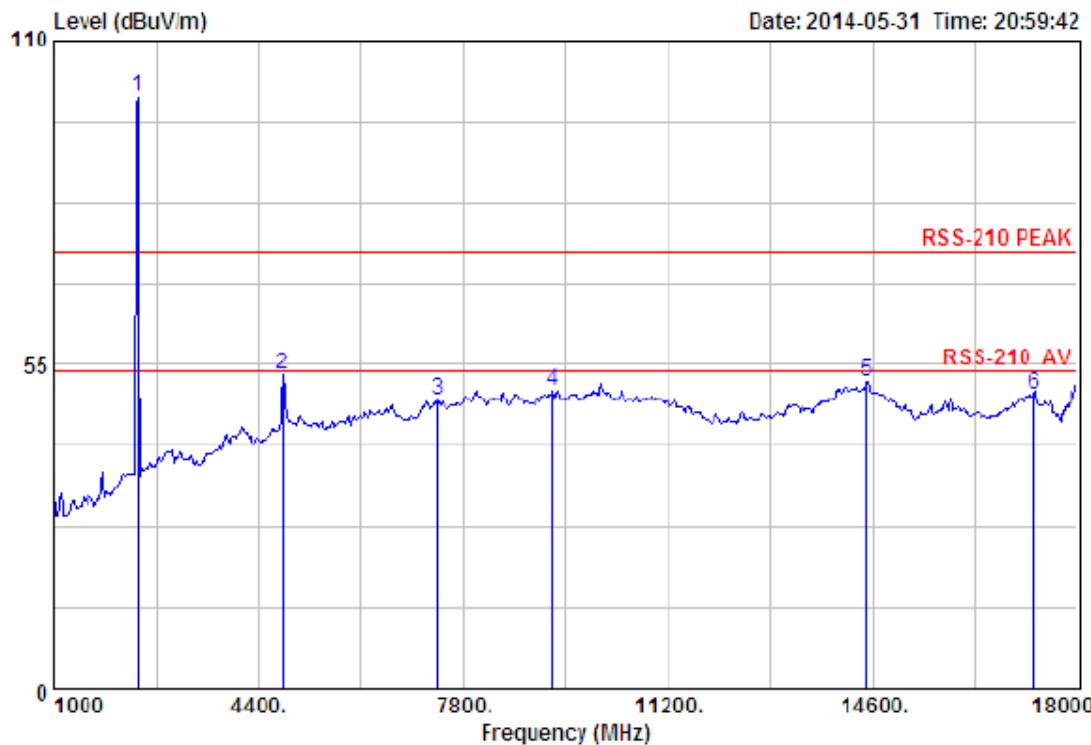
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Site no. : 3m Chamber Data no. : 815  
Dis. / Ant. : 3m ANI 1-18G Ant. pol. : HORIZONTAL  
Limit : RSS-210 PEAK  
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa  
Engineer : Tony  
EUT : Bluetooth Speaker  
Power : DC 15V From Adapter Input AC 120V/60Hz  
M/N : BeoPlay A2  
Test Mode : GFSK TX 2402MHz

	Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dB <sub>UV</sub> )	(dB <sub>UV</sub> /m)	(dB <sub>UV</sub> /m)	(dB)	

1	2402.00	27.61	6.62	34.18	100.60	100.65	74.00	-26.65	Peak
2	4804.00	31.25	11.77	31.81	42.19	53.40	74.00	20.60	Peak
3	7358.00	36.56	11.58	31.99	32.77	48.92	74.00	25.08	Peak
4	9279.00	37.89	11.60	32.21	33.27	50.55	74.00	23.45	Peak
5	14498.00	41.88	10.93	33.08	32.38	52.11	74.00	21.89	Peak
6	17286.00	40.78	10.88	33.87	32.21	50.00	74.00	24.00	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.

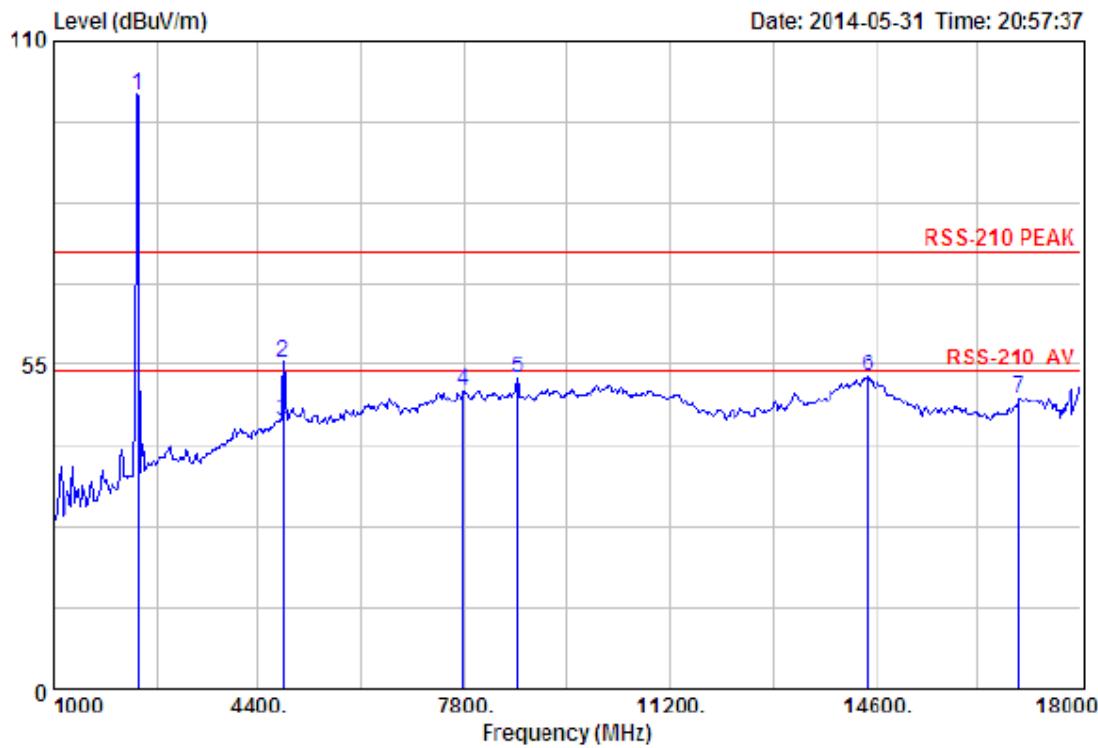
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Site no. : 3m Chamber Data no. : 814  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : RSS-210 PEAK

Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : BeoPlay A2

Test Mode : GFSK TX 2402MHz

	Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dB <sub>UV</sub> )	(dB <sub>UV</sub> /m)	(dB <sub>UV</sub> /m)	(dB)	

1	2402.00	27.61	6.62	34.18	100.83	100.88	74.00	-26.88	Peak
2	4804.00	31.25	11.77	31.81	44.22	55.43	74.00	18.57	Peak
3	4804.00	31.25	11.77	0.00	2.44	45.46	54.00	8.54	Average
4	7783.00	36.59	11.50	31.45	34.01	50.65	74.00	23.35	Peak
5	8684.00	37.32	11.45	32.43	36.34	52.68	74.00	21.32	Peak
6	14464.00	41.85	10.93	32.96	33.06	52.88	74.00	21.12	Peak
7	16963.00	39.64	10.96	33.42	32.20	49.38	74.00	24.62	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.

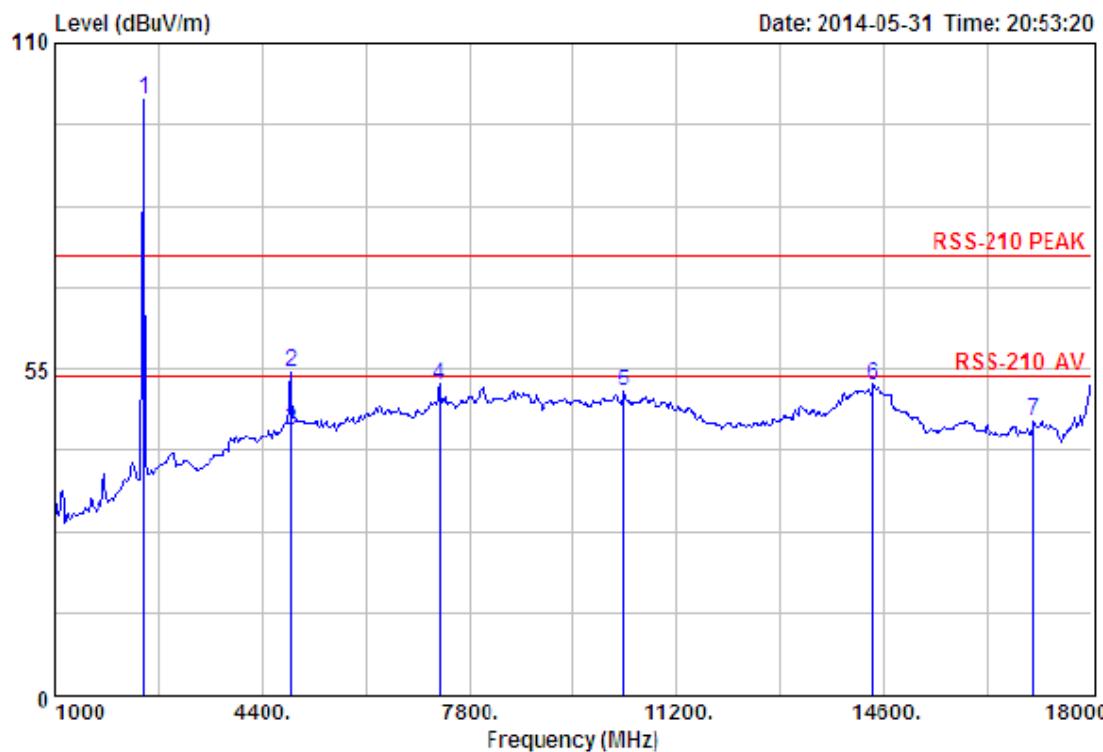
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Site no. : 3m Chamber Data no. : 812  
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
Limit : RSS-210 PEAK  
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa  
Engineer : Tony  
EUT : Bluetooth Speaker  
Power : DC 15V From Adapter Input AC 120V/60Hz  
M/N : BeoPlay A2  
Test Mode : GFSK TX 2440MHz

	Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dB <sub>BuV</sub> )	(dB <sub>BuV/m</sub> )	(dB <sub>BuV/m</sub> )	(dB)	

1	2440.00	27.60	6.67	34.12	100.25	100.40	74.00	-26.40	Peak
2	4880.00	31.37	12.07	31.90	43.00	54.54	74.00	19.46	Peak
3	4880.00	31.37	12.07	0.00	1.18	44.62	54.00	9.38	Average
4	7320.00	36.55	11.57	31.99	36.18	52.31	74.00	21.69	Peak
5	10333.00	38.68	11.40	32.40	33.46	51.14	74.00	22.86	Peak
6	14413.00	41.60	10.92	32.78	32.43	52.37	74.00	21.63	Peak
7	17048.00	39.93	10.97	33.09	28.50	46.31	74.00	27.69	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.

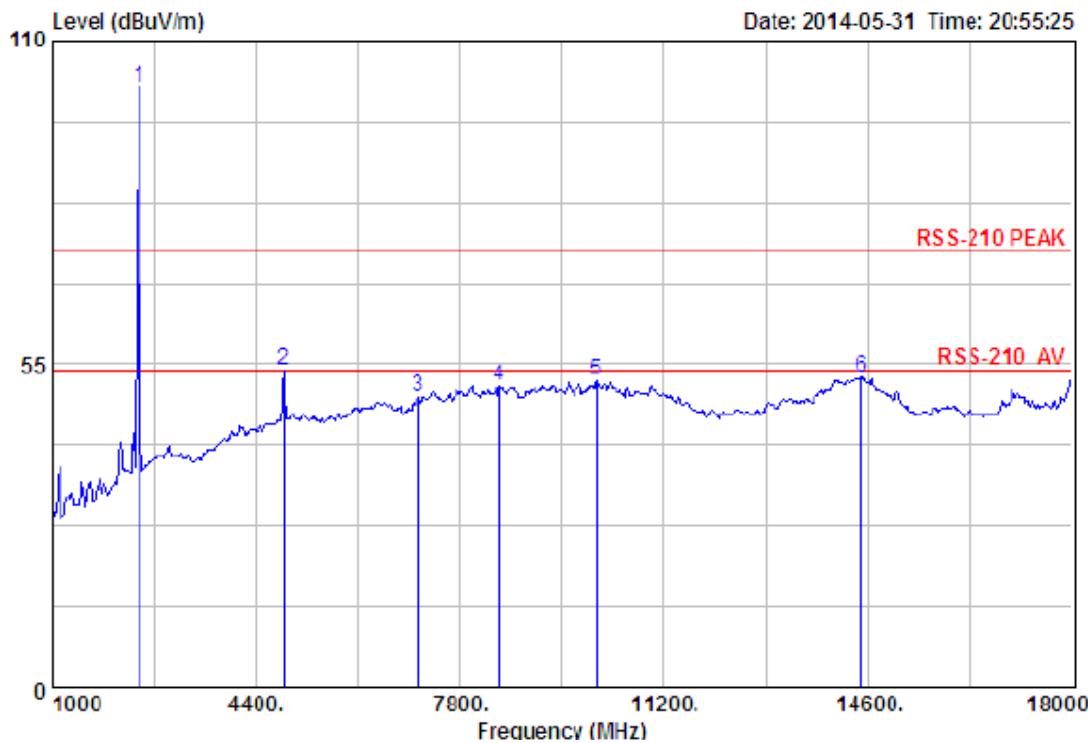
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Site no. : 3m Chamber Data no. : 813  
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
Limit : RSS-210 PEAK  
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa  
Engineer : Tony  
EUT : Bluetooth Speaker  
Power : DC 15V From Adapter Input AC 120V/60Hz  
M/N : BeoPlay A2  
Test Mode : GFSK TX 2440MHz

Freq. (MHz)	Ant. (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Factor	Reading	Level (dB <sub>UV</sub> )	Limits (dB <sub>UV</sub> /m)		
1 2440.00	27.60	6.67	34.12	101.79	101.94	74.00	-27.94		Peak
2 4860.00	31.34	11.99	31.88	42.46	53.91	74.00	20.09		Peak
3 7103.00	35.99	11.51	32.31	34.09	49.28	74.00	24.72		Peak
4 8463.00	36.87	11.45	31.86	34.81	51.27	74.00	22.73		Peak
5 10078.00	38.24	11.54	31.92	34.34	52.20	74.00	21.60		Peak
6 14498.00	41.88	10.93	33.08	32.89	52.62	74.00	21.38		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.

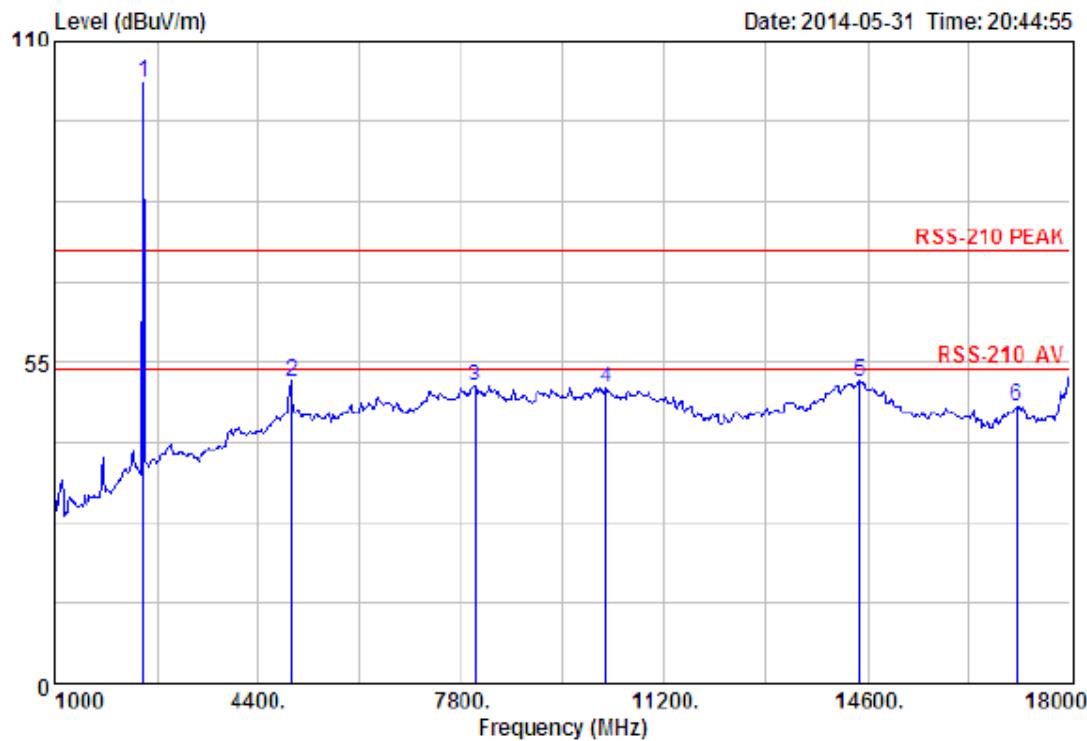
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Site no. : 3m Chamber Data no. : 808  
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : RSS-210 PEAK

Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : BeoPlay A2

Test Mode : GFSK IX 2480MHz

Freq. (MHz)	Ant. (dB/m)	Cable (dB)	Amp (dB)	Reading (dB <sub>UV</sub> )	Emission (dB <sub>UV</sub> /m)	Limits (dB <sub>UV</sub> /m)	Margin (dB)	Remark
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1	2480.00	27.58	6.71	34.03	102.66	102.92	74.00	-28.92	Peak
2	4960.00	31.49	12.44	31.97	39.90	51.86	74.00	22.14	Peak
3	8038.00	36.95	11.40	31.26	33.79	50.86	74.00	23.14	Peak
4	10214.00	38.48	11.47	32.17	32.81	50.59	74.00	23.41	Peak
5	14464.00	41.85	10.93	32.96	31.85	51.67	74.00	22.33	Peak
6	17099.00	40.13	10.95	32.96	29.30	47.42	74.00	26.58	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.

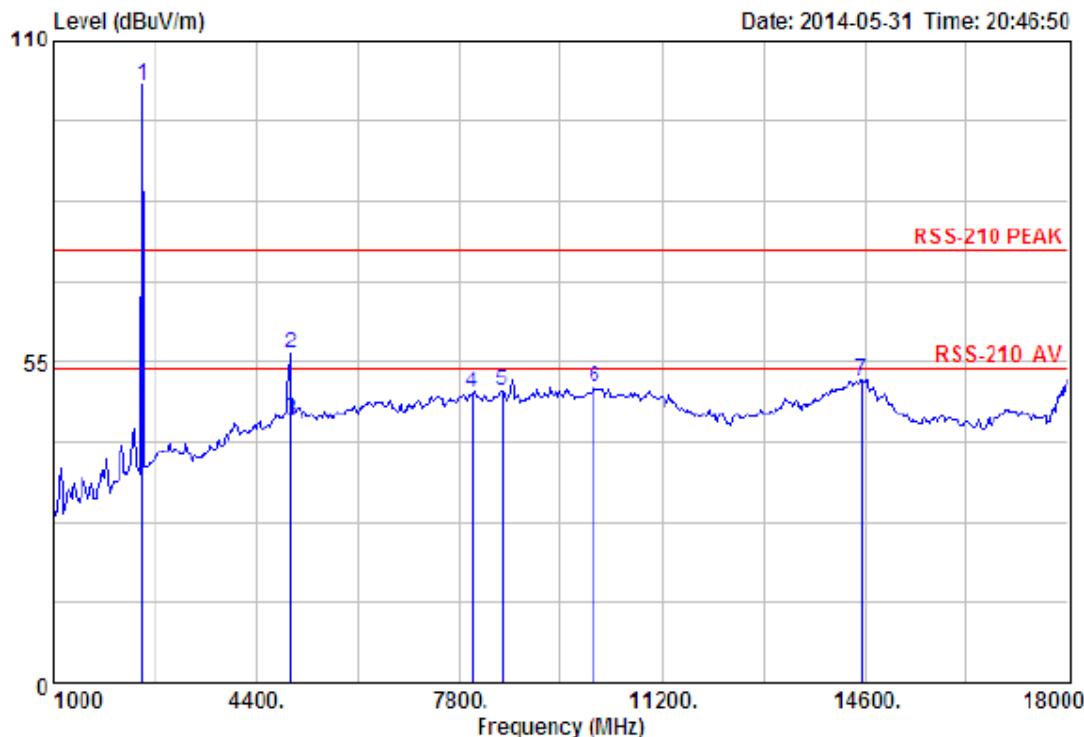
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Site no. : 3m Chamber Data no. : 809  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : RSS-210 PEAK

Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : BeoPlay A2

Test Mode : GFSK TX 2480MHz

	Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dB <sub>UV</sub> )	(dB <sub>UV</sub> /m)	(dB <sub>UV</sub> /m)	(dB)	

1	2480.00	27.58	6.71	34.03	102.15	102.41	74.00	-28.41	Peak
2	4960.00	31.49	12.44	31.97	44.44	56.40	74.00	17.60	Peak
3	4960.00	31.49	12.44	0.00	0.96	44.89	54.00	9.11	Average
4	8004.00	37.01	11.40	31.22	32.37	49.56	74.00	24.44	Peak
5	8514.00	36.96	11.45	31.91	33.56	50.06	74.00	23.94	Peak
6	10061.00	38.21	11.55	31.89	32.60	50.47	74.00	23.53	Peak
7	14549.00	41.77	10.92	33.26	32.46	51.89	74.00	22.11	Peak

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

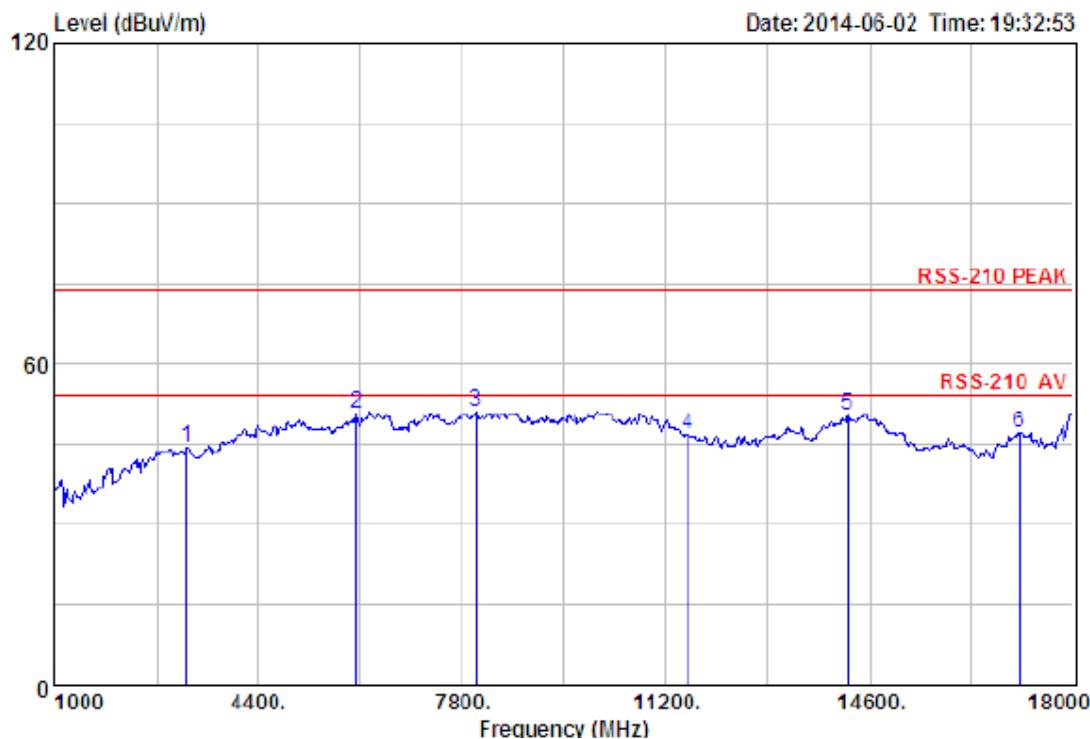
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Site no. : 3m Chamber Data no. : 825  
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
Limit : RSS-210 PEAK  
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa  
Engineer : Tony  
EUT : Bluetooth Speaker  
Power : DC 15V From Adapter Input AC 120V/60Hz  
M/N : BeoPlay A2  
Test Mode : RX Mode

	Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dB <sub>UV</sub> )	(dB <sub>UV</sub> /m)	(dB <sub>UV</sub> /m)	(dB)	
1	3193.00	28.23	8.91	33.26	40.62	44.50	74.00	29.50 Peak
2	6049.00	32.88	12.13	32.22	37.90	50.69	74.00	23.31 Peak
3	8038.00	36.95	11.40	31.26	33.91	50.98	74.00	23.02 Peak
4	11574.00	39.12	10.99	34.71	31.27	46.67	74.00	27.33 Peak
5	14243.00	41.67	10.91	33.24	31.09	50.43	74.00	23.57 Peak
6	17099.00	40.13	10.95	32.96	29.11	47.23	74.00	26.77 Peak

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

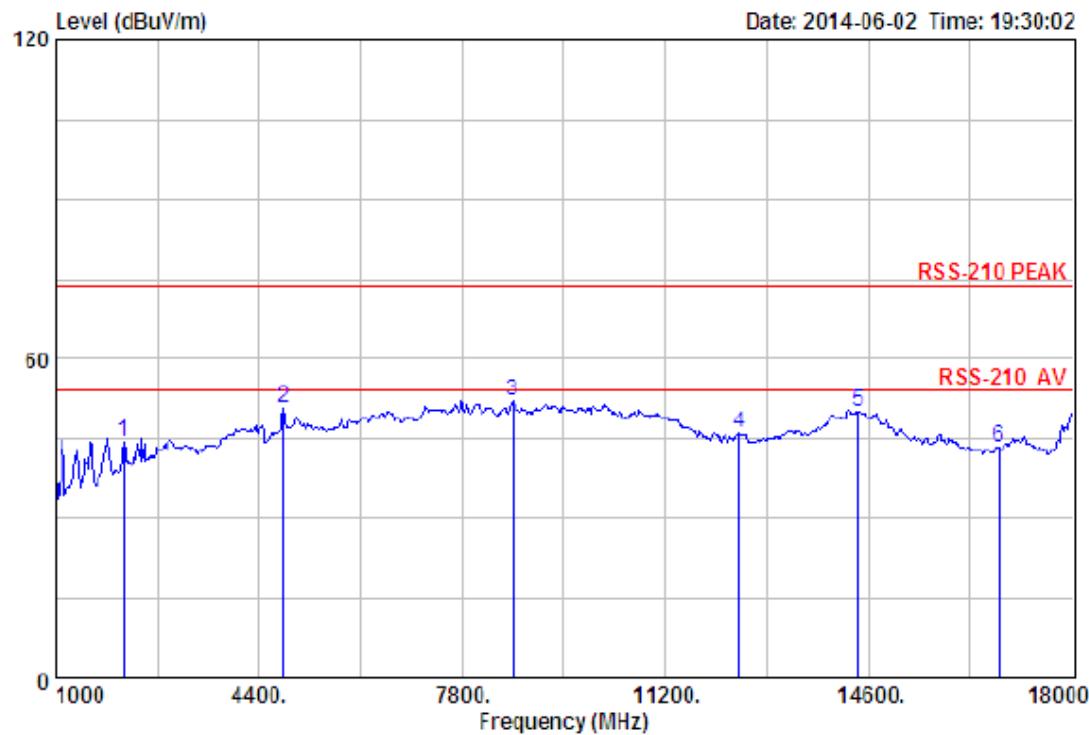
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Freq. (MHz)	Ant. (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dB <sub>UV</sub> )	Level (dB <sub>UV</sub> /m)	Limits (dB <sub>UV</sub> /m)	Margin (dB)	Remark
1 2139.00	27.41	6.34	34.39	45.20	44.56	74.00	29.44	Peak
2 4808.00	31.25	11.77	31.81	39.47	50.68	74.00	23.32	Peak
3 8633.00	37.24	11.45	32.31	35.68	52.06	74.00	21.94	Peak
4 12424.00	38.74	10.97	35.29	31.72	46.14	74.00	27.86	Peak
5 14413.00	41.80	10.92	32.78	30.29	50.23	74.00	23.77	Peak
6 16759.00	39.03	10.76	34.70	28.52	43.61	74.00	30.39	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.

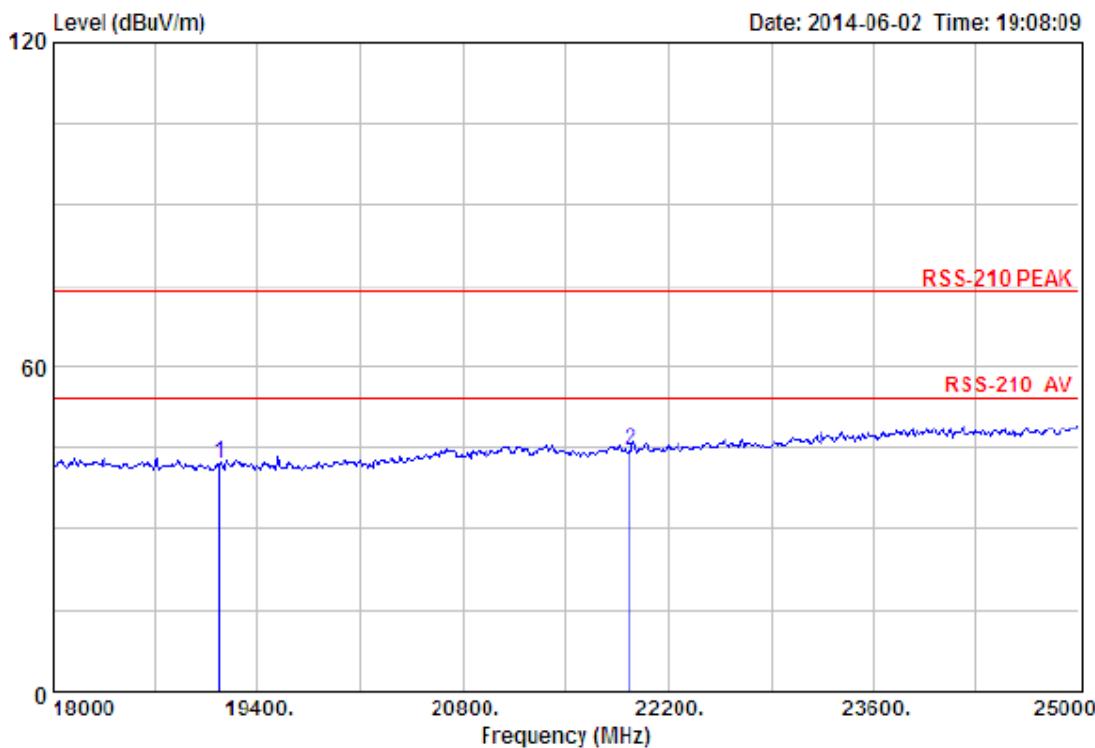
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Site no. : 3m Chamber Data no. : 818  
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL  
Limit : RSS-210 PEAK  
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa  
Engineer : Tony  
EUT : Bluetooth Speaker  
Power : DC 15V From Adapter Input AC 120V/60Hz  
M/N : BeoPlay A2  
Test Mode : GFSK TX 2402MHz

	Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dB <sub>B</sub> V)	(dB <sub>B</sub> V/m)	(dB <sub>B</sub> V/m)	(dB)	
1	19141.00	45.55	18.70	35.98	13.92	42.19	74.00	31.81 Peak
2	21941.00	45.74	20.54	34.94	13.25	44.59	74.00	29.41 Peak

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

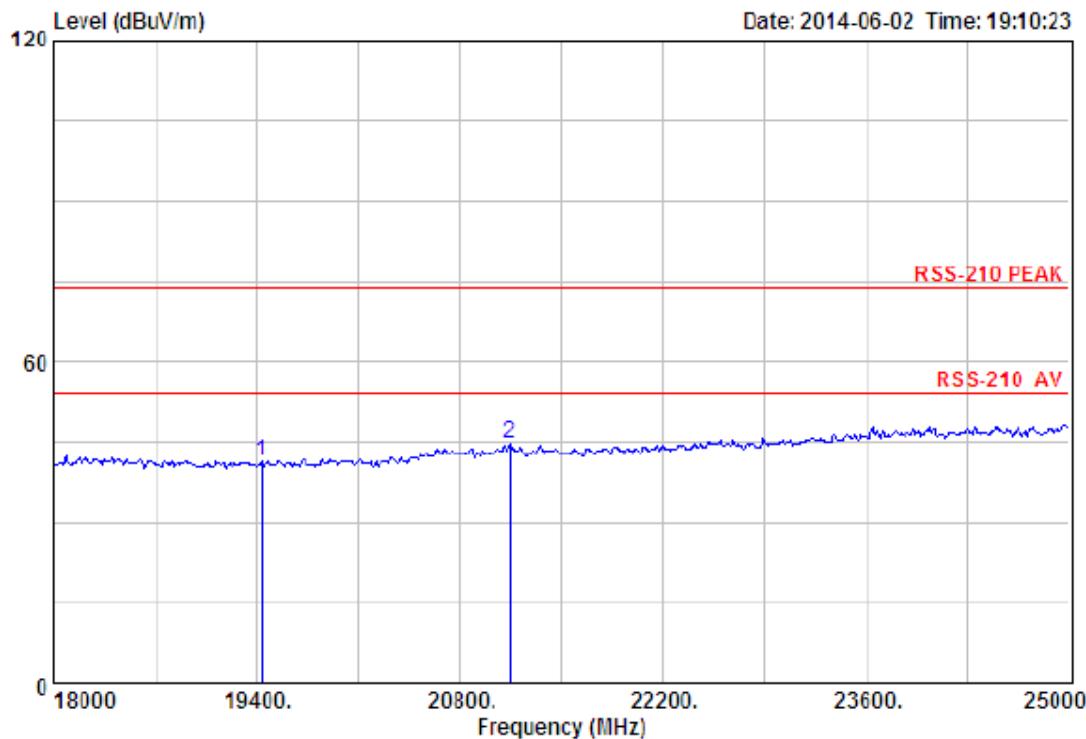
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Site no. : 3m Chamber Data no. : 819  
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL

Limit : RSS-210 PEAK

Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : BecPlay A2

Test Mode : GFSK TX 2402MHz

Freq. (MHz)	Ant. (dB/m)	Cable Factor (dB)	Amp Factor (dB)	Emission				
				Reading (dB <sub>B</sub> V)	Level (dB <sub>B</sub> V/m)	Limits (dB <sub>B</sub> V/m)	Margin (dB <sub>B</sub> V/m)	Remark
<hr/>								
1 19428.00	45.83	19.03	36.21	12.96	41.61	74.00	32.39	Peak
2 21143.00	46.21	20.19	35.67	14.00	44.73	74.00	29.27	Peak

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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.

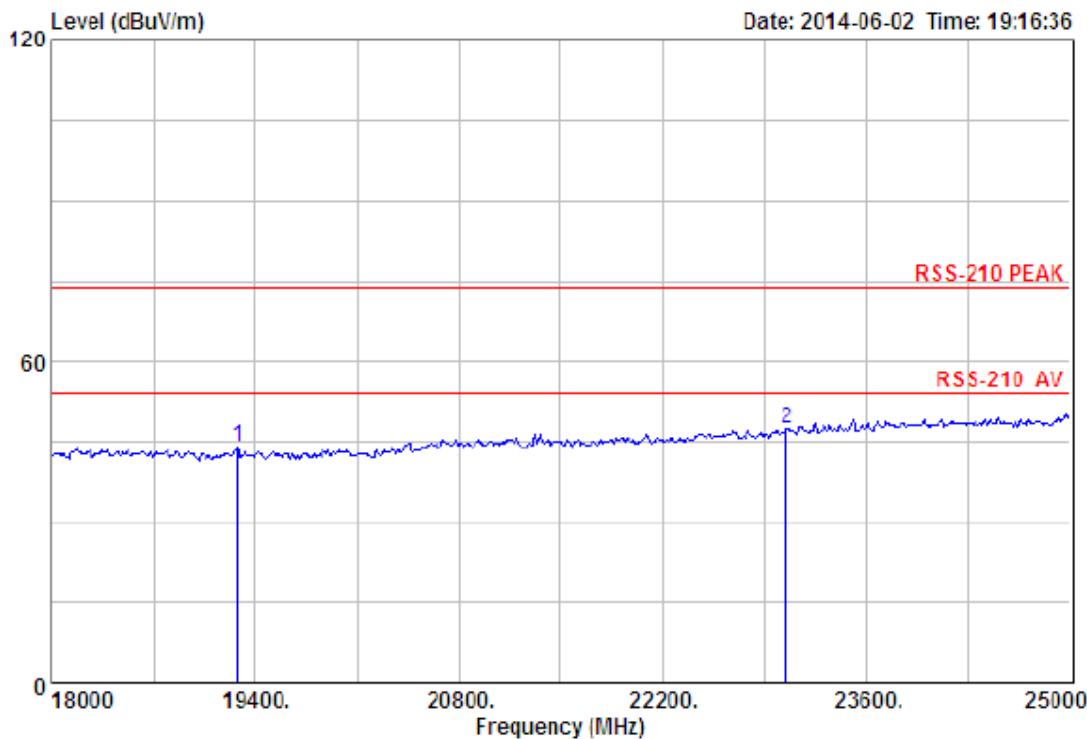
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Site no. : 3m Chamber Data no. : 821  
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL

Limit : RSS-210 PEAK

Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : BeoPlay A2

Test Mode : GFSK TX 2440MHz

	Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dB <sub>UV</sub> )	(dB <sub>UV</sub> /m)	(dB <sub>UV</sub> /m)	(dB)	

1	19274.00	45.68	18.86	36.08	15.73	44.19	74.00	29.81	Peak
2	23054.00	45.61	21.20	33.80	14.51	47.52	74.00	26.48	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.

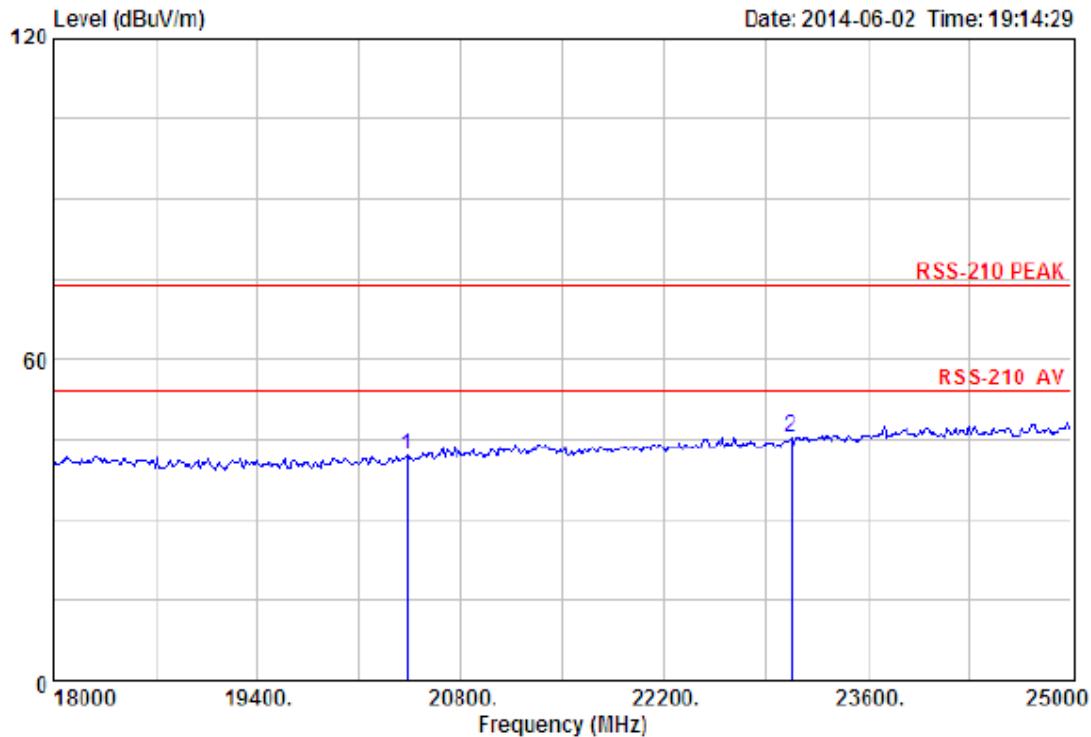
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Site no. : 3m Chamber Data no. : 820  
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL

Limit : RSS-210 PEAK

Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : Beoplay A2

Test Mode : GFSK TX 2440MHz

	Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dB <sub>UV</sub> )	(dB <sub>UV</sub> /m)	(dB <sub>UV</sub> /m)	(dB)	
1	20429.00	46.02	19.87	36.32	12.59	42.16	74.00	31.84 Peak
2	23068.00	45.61	21.21	33.77	12.51	45.56	74.00	28.44 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.

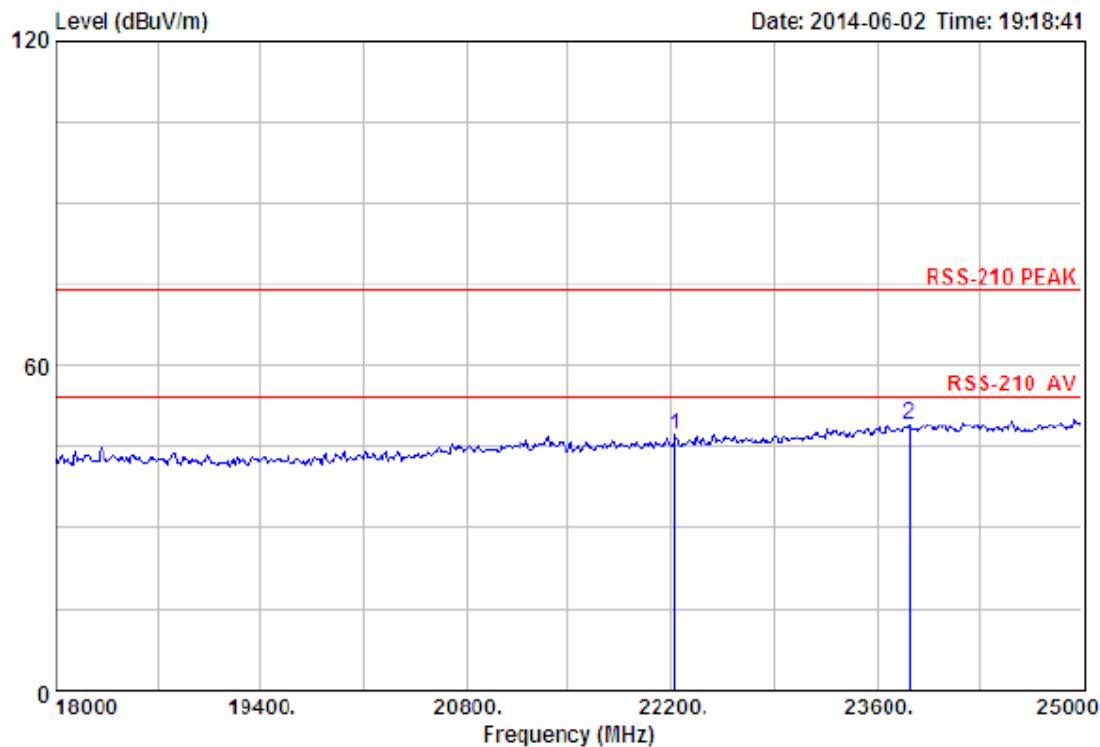
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Site no. : 3m Chamber Data no. : 822  
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL  
Limit : RSS-210 PEAK  
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa  
Engineer : Tony  
EUT : Bluetooth Speaker  
Power : DC 15V From Adapter Input AC 120V/60Hz  
M/N : Beoplay A2  
Test Mode : GFSK TX 2480MHz

Freq. (MHz)	Ant. (dB/m)	Cable (dB)	Amp (dB)	Emission					
				Factor	Loss	Factor	Reading	Level	Limits
1 22228.00	45.74	20.70	34.66	15.41	47.19	74.00	26.81	Peak	
2 23624.00	45.63	21.89	32.98	14.62	49.16	74.00	24.84	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.

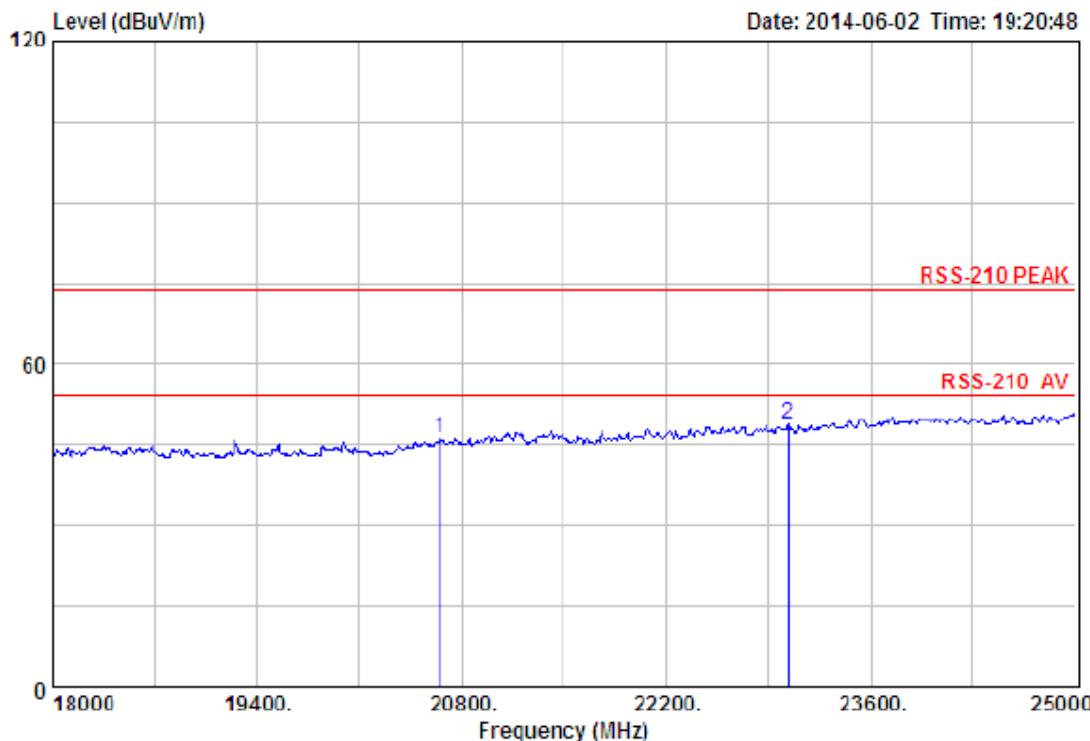
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Freq. (MHz)	Ant. (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dB <sub>B</sub> V)	Level (dB <sub>B</sub> V/m)	Limits (dB <sub>B</sub> V/m)	Margin (dB)	Remark
1 20653.00	46.10	19.98	36.12	16.20	46.16	74.00	27.84	Peak
2 23033.00	45.61	21.17	33.82	15.69	48.65	74.00	25.35	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.

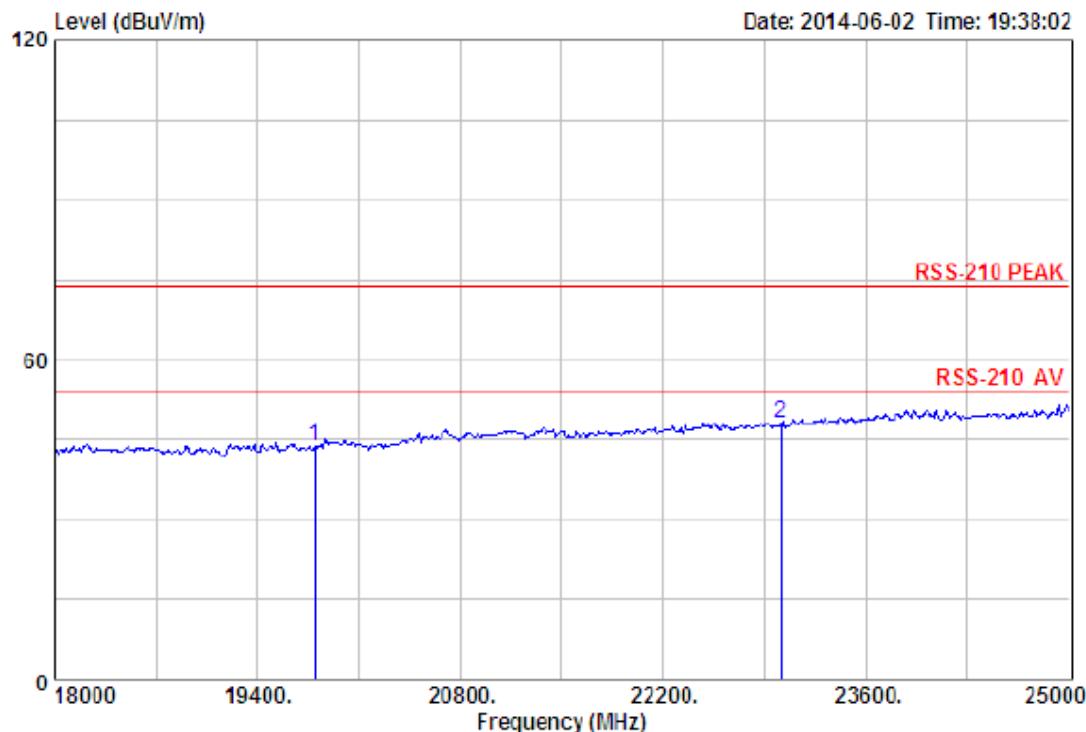
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Site no. : 3m Chamber Data no. : 826  
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL

Limit : RSS-210 PEAK

Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : BeoPlay A2

Test Mode : RX Mode

	Ant.	Cable	Amp	Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin
(MHz)	(dB/m)	(dB)	(dB)	(dB <sub>UV</sub> )	(dB <sub>UV</sub> /m)	(dB <sub>UV</sub> /m)	(dB)

1	19799.00	46.02	19.45	36.53	14.63	43.77	74.00	30.23	Peak
2	23012.00	45.60	21.16	33.85	15.23	48.14	74.00	25.86	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.

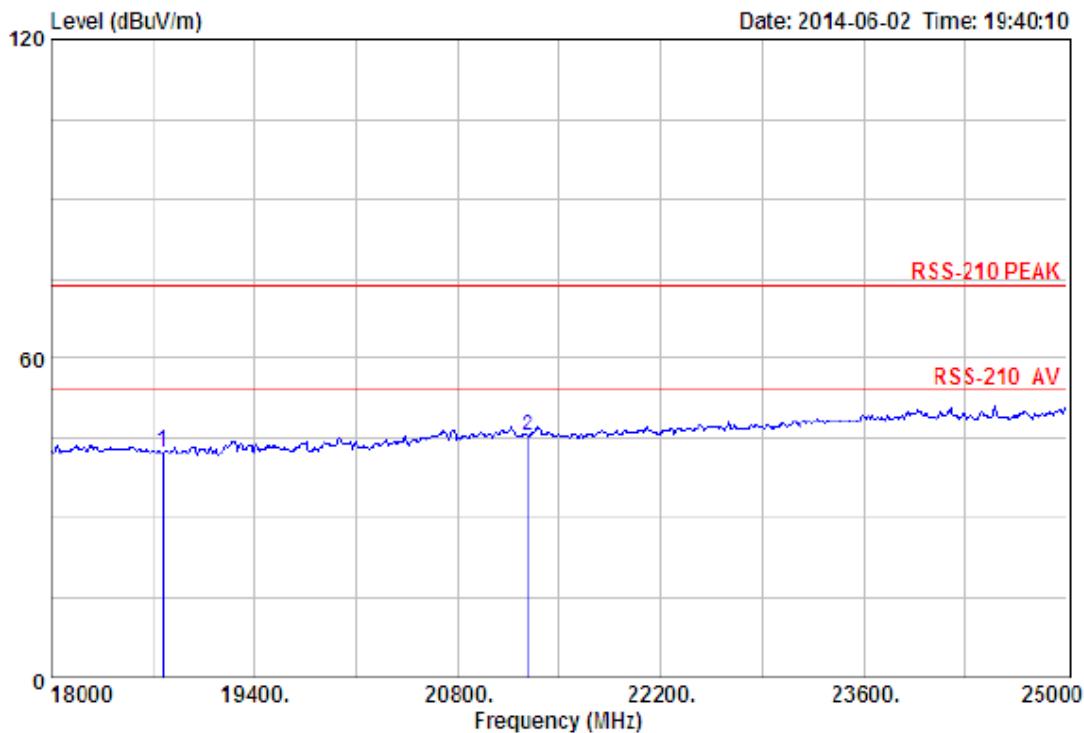
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Freq. (MHz)	Ant. (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Level (dB <sub>UV</sub> )	Limits (dB <sub>UV</sub> /m)	Margin (dB <sub>UV</sub> /m)	Remark
1 18777.00	45.17	18.27	35.66	14.79	42.57	74.00	31.43 Peak
2 21290.00	46.12	20.26	35.53	14.69	45.54	74.00	28.46 Peak

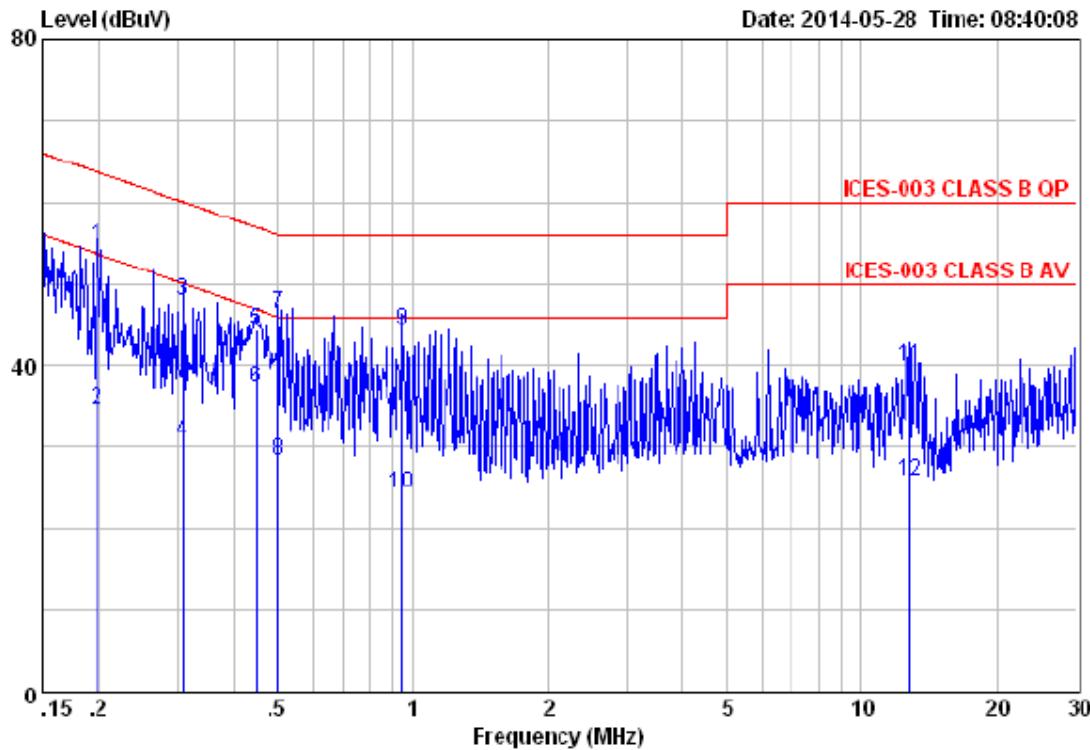
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.

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6. Conducted emissions



Site no. : EST Conduction Shielded Room Data no. : 363  
Limit : ICES-003 CLASS B QP LINE Phase : LINE  
Env. / Ins. : Temp:25.3°C Humi:58% Press:101.50kPa  
Engineer : Tony  
EUT : Bluetooth Speaker  
Power : DC 15V From Adapter Input AC 120W/60Hz  
M/N : BeoPlay i2  
Test Mode : TX Mode

Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	0.20	9.61	9.80	35.22	54.63	63.71	9.08 QP
2	0.20	9.61	9.80	15.22	34.63	53.71	19.08 Average
3	0.31	9.61	9.83	28.39	47.83	60.06	12.23 QP
4	0.31	9.61	9.83	11.39	30.83	50.06	19.23 Average
5	0.45	9.61	9.81	24.86	44.28	56.93	12.65 QP
6	0.45	9.61	9.81	17.86	37.28	46.93	9.65 Average
7	0.50	9.61	9.81	26.98	46.40	56.00	9.60 QP
8	0.50	9.61	9.81	8.98	28.40	46.00	17.60 Average
9	0.95	9.63	9.82	24.85	44.30	56.00	11.70 QP
10	0.95	9.63	9.82	4.85	24.30	46.00	21.70 Average
11	12.05	9.67	9.91	20.22	39.00	60.00	20.20 QP
12	12.85	9.67	9.91	6.22	25.80	50.00	24.20 Average

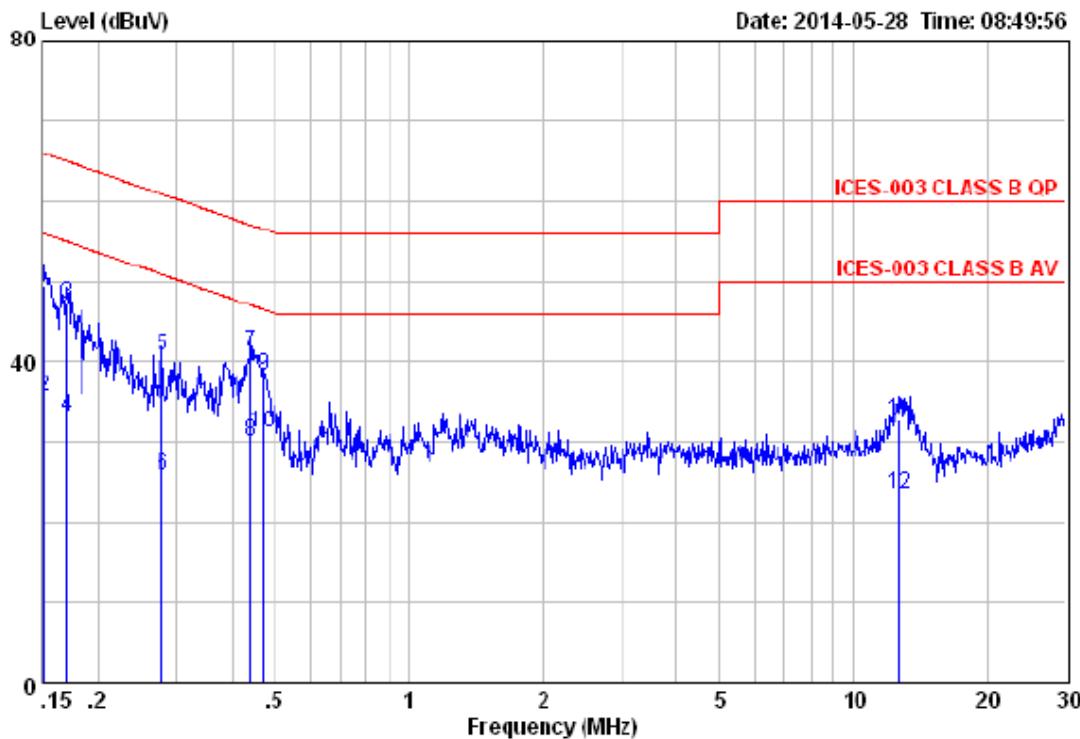
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Site no. : EST Conduction Shielded Room Data no. : 365

Limit : ICES-003 CLASS B QP LINE Phase : NEUTRAL

Env. / Ins. : Temp:25.3°C Humi:58% Press:101.50kPa

Engineer : Tony

EUT : Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : BeoPlay A2

Test Mode : TX Mode

Freq. (MHz)	LISN (dB/m)	Cable (dB)	Emission				
			Factor	Loss	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)
1	0.15	9.46	9.81	30.30	49.57	65.91	16.34
2	0.15	9.46	9.81	16.30	35.57	55.91	20.34
3	0.17	9.52	9.81	27.88	47.21	64.99	17.78
4	0.17	9.52	9.81	13.88	33.21	54.99	21.78
5	0.28	9.60	9.83	21.40	40.83	60.85	20.02
6	0.28	9.60	9.83	6.40	25.83	50.85	25.02
7	0.44	9.59	9.81	21.77	41.17	57.07	15.90
8	0.44	9.59	9.81	10.77	30.17	47.07	16.90
9	0.47	9.59	9.81	18.06	36.26	56.49	18.21
10	0.47	9.59	9.81	11.88	31.28	46.49	15.21
11	12.65	9.73	9.92	13.00	32.65	60.00	27.35
12	12.65	9.73	9.92	4.00	23.65	50.00	26.35

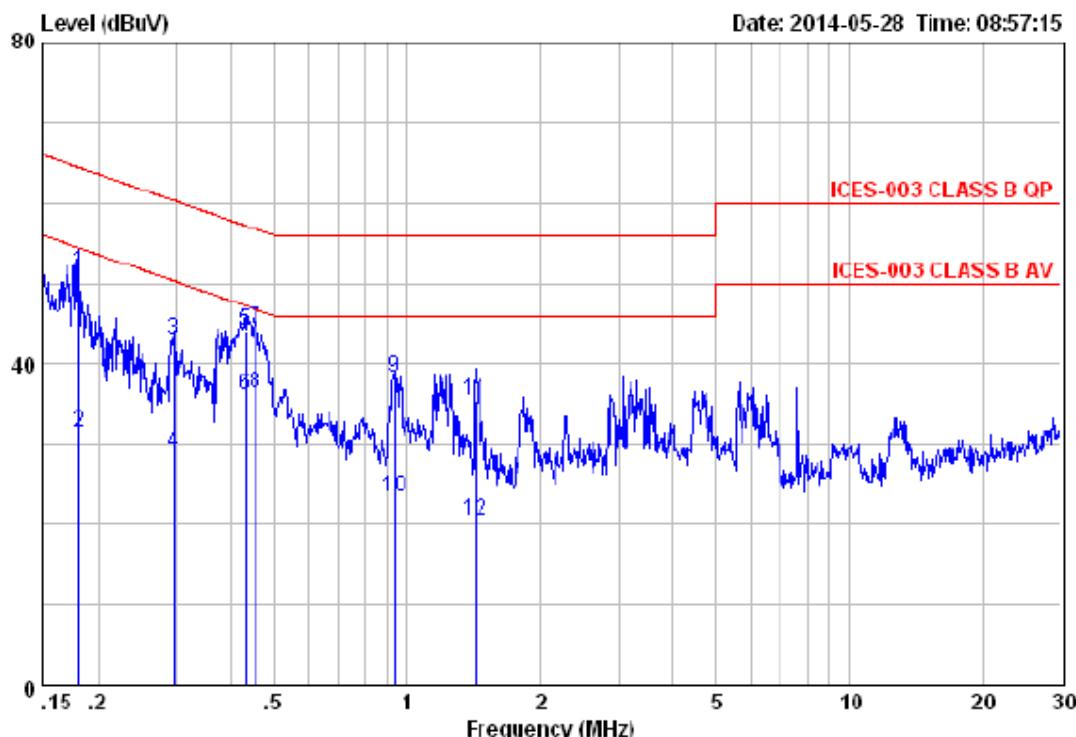
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Site no. : EST Conduction Shielded Room Data no. : 369

Limit : ICES-003 CLASS B QP LINE Phase : LINE

Env. / Ins. : Temp:25.3°C Humi:58% Press:101.50kPa

Engineer : Tony

EUT : Portable Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : BeoPlay A2

Test Mode : RX Mode

Emission

Freq. (MHz)	Reading (dB <sub>BuV</sub> )	Level (dB <sub>BuV/m</sub> )	Limits (dB <sub>BuV/m</sub> )	Margin (dB)	Remark
----------------	---------------------------------	---------------------------------	----------------------------------	----------------	--------

1	0.18	32.01	51.42	64.42	13.00 QP
2	0.18	12.01	31.42	54.42	23.00 Average
3	0.30	23.59	43.03	60.37	17.34 QP
4	0.30	9.59	29.03	50.37	21.34 Average
5	0.43	24.73	44.15	57.24	13.09 QP
6	0.43	16.73	36.15	47.24	11.09 Average
7	0.45	24.85	44.27	56.80	12.53 QP
8	0.45	16.85	36.27	46.80	10.53 Average
9	0.93	18.67	38.32	56.00	17.68 QP
10	0.93	3.87	23.32	46.00	22.68 Average
11	1.43	16.07	35.51	56.00	20.49 QP
12	1.43	1.07	20.51	46.00	25.49 Average

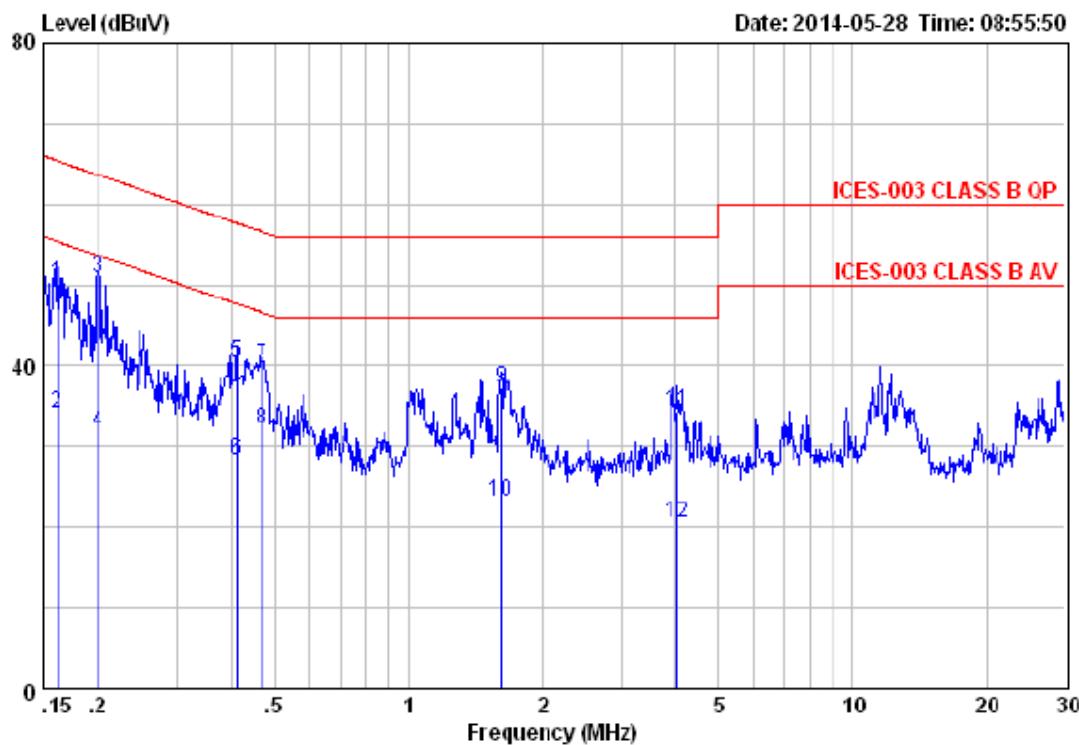
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Site no. : EST Conduction Shielded Room Data no. : 367  
Limit : ICES-003 CLASS B QP LINE Phase : NEUTRAL

Env. / Ins. : Temp:25.3°C Humi:58% Press:101.50kPa

Engineer : Tony

EUT : Portable Bluetooth Speaker

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : BeoPlay A2

Test Mode : RX Mode  
Emission

Freq. (MHz)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
----------------	-------------------	-------------------	--------------------	----------------	--------

1	0.16	30.73	50.04	65.38	15.34 QP
2	0.16	14.73	34.04	55.38	21.34 Average
3	0.20	31.36	50.76	63.62	12.86 QP
4	0.20	12.36	31.76	53.62	21.86 Average
5	0.41	20.99	40.40	57.64	17.24 QP
6	0.41	8.99	28.40	47.64	19.24 Average
7	0.47	20.60	40.00	56.54	16.54 QP
8	0.47	12.60	32.00	46.54	14.54 Average
9	1.61	17.69	37.14	56.00	18.86 QP
10	1.61	3.69	23.14	46.00	22.86 Average
11	4.01	14.92	34.40	56.00	21.60 QP
12	4.01	0.92	20.40	46.00	25.60 Average

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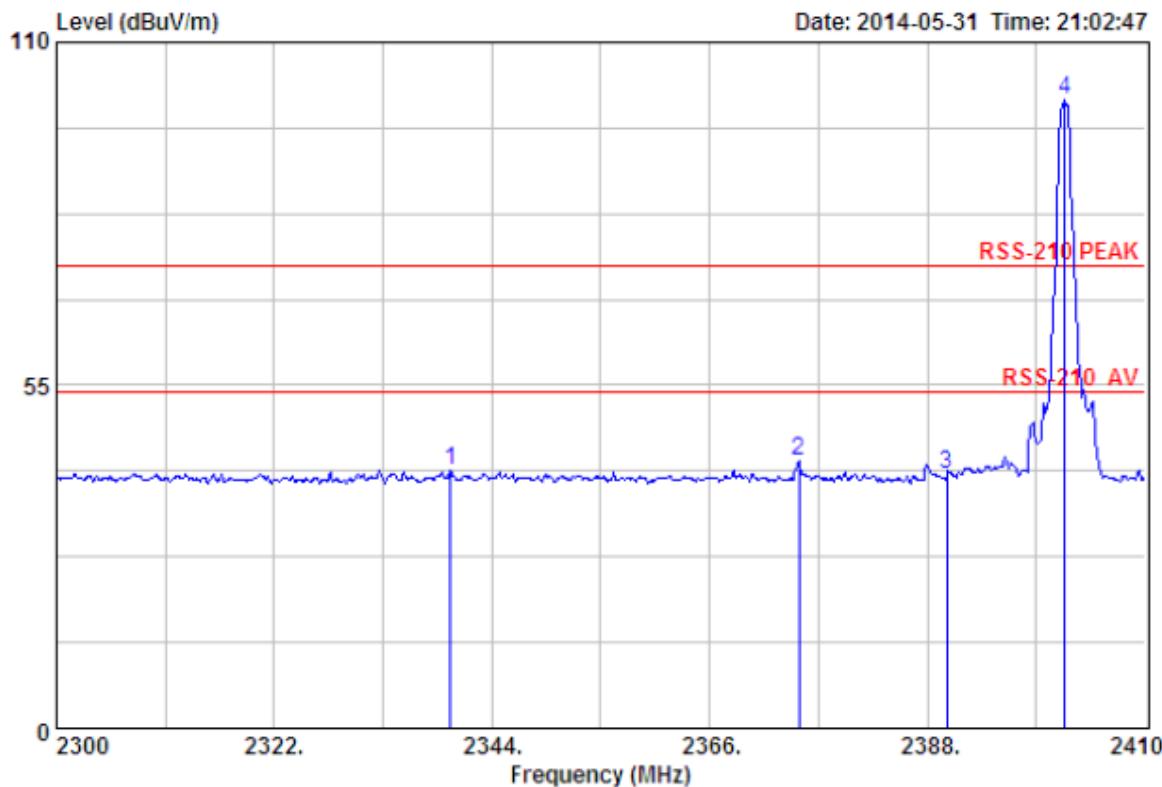
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7. Band-edge Emission



Site no. : 3m Chamber Data no. : 816  
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
Limit : RSS-210 PEAK  
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa  
Engineer : Tony  
EUT : Bluetooth Speaker  
Power : DC 15V From Adapter Input AC 120V/60Hz  
M/N : BeoPlay A2  
Test Mode : GFSK TX 2402MHz

Freq. (MHz)	Ant. (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission					
				Factor	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2339.82	27.70	6.56	34.22	41.25	41.29	74.00	32.71		Peak
2 2375.02	27.64	6.60	34.19	42.84	42.89	74.00	31.11		Peak
3 2390.00	27.64	6.62	34.19	40.65	40.72	74.00	33.28		Peak
4 2401.86	27.61	6.62	34.18	100.81	100.86	74.00	-26.86		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.

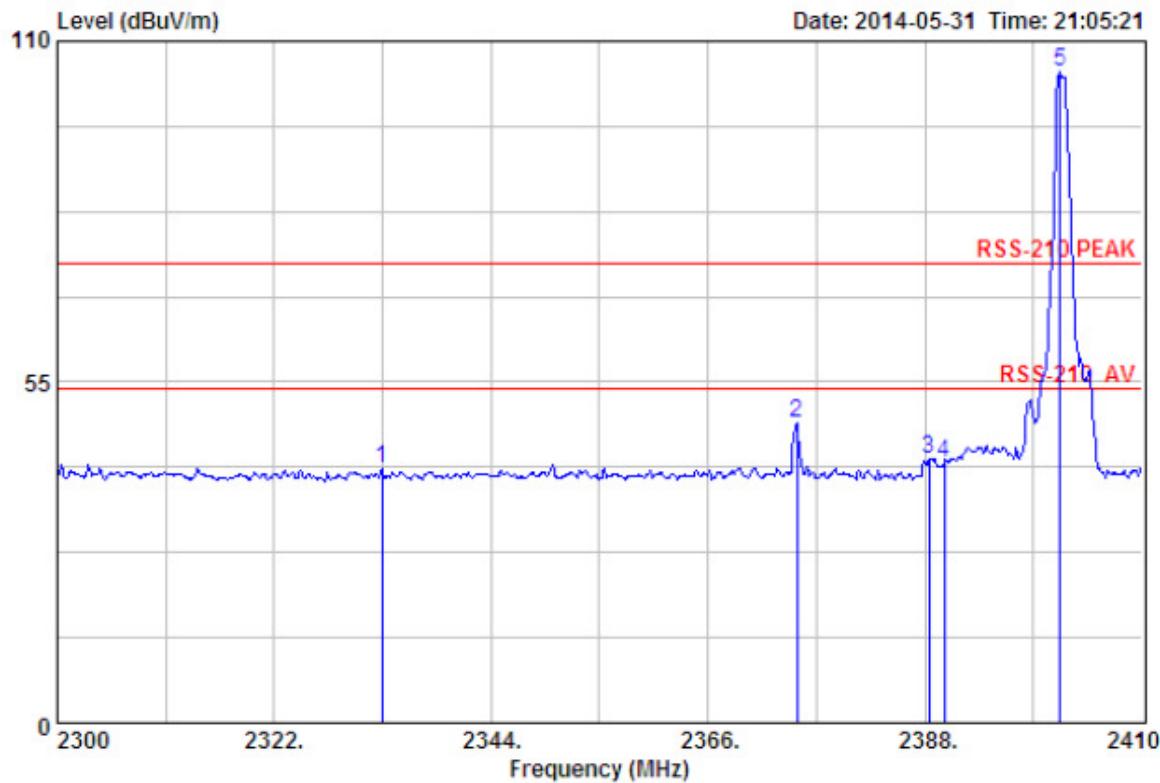
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Site no. : 3m Chamber Data no. : 817  
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
Limit : RSS-210 PEAK  
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa  
Engineer : Tony  
EUT : Bluetooth Speaker  
Power : DC 15V From Adapter Input AC 120V/60Hz  
M/N : BeoPlay A2  
Test Mode : GFSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
<hr/>									
1	2332.89	27.73	6.54	34.23	41.09	41.13	74.00	32.87	Peak
2	2375.02	27.64	6.60	34.19	48.31	48.36	74.00	25.64	Peak
3	2388.44	27.64	6.62	34.19	42.60	42.67	74.00	31.33	Peak
4	2390.00	27.64	6.62	34.19	41.94	42.01	74.00	31.99	Peak
5	2401.75	27.61	6.62	34.18	104.92	104.97	74.00	-30.97	Peak

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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.

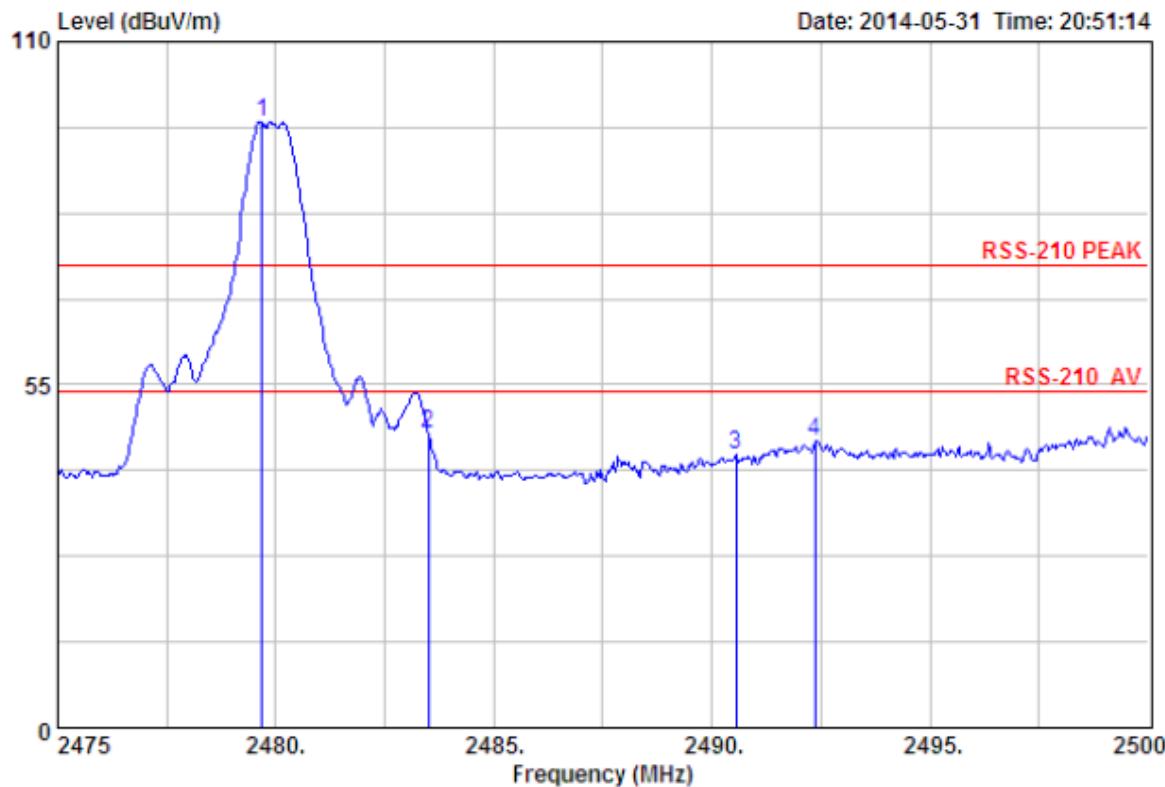
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Site no. : 3m Chamber Data no. : 811  
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
Limit : RSS-210 PEAK  
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa  
Engineer : Tony  
EUT : Bluetooth Speaker  
Power : DC 15V From Adapter Input AC 120V/60Hz  
M/N : BeoPlay A2  
Test Mode : GFSK TX 2480MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dB <sub>UV</sub> )	Level (dB <sub>UV</sub> /m)	Limits (dB <sub>UV</sub> /m)	Margin (dB)	Remark
1 2479.68	27.58	6.71	34.03	96.85	97.11	74.00	-23.11	Peak
2 2483.50	27.58	6.71	34.03	46.85	47.11	74.00	26.89	Peak
3 2490.55	27.58	6.73	34.03	43.61	43.89	74.00	30.11	Peak
4 2492.35	27.58	6.73	34.03	45.76	46.04	74.00	27.96	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.

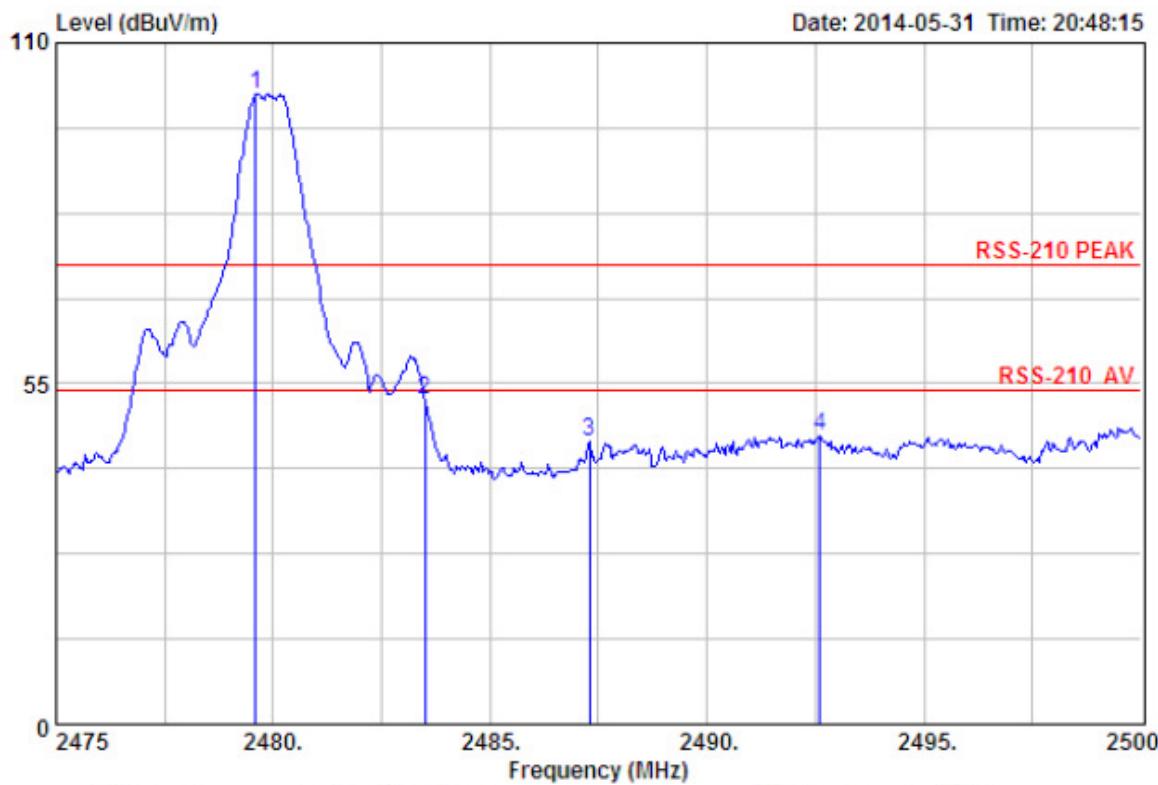
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Site no. : 3m Chamber Data no. : 810  
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
Limit : RSS-210 PEAK  
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa  
Engineer : Tony  
EUT : Bluetooth Speaker  
Power : DC 15V From Adapter Input AC 120V/60Hz  
M/N : BeoPlay A2  
Test Mode : GFSK TX 2480MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dB <sub>UV</sub> )	Level (dB <sub>UV</sub> /m)	Limits (dB <sub>UV</sub> /m)	Margin (dB)	Remark
1 2479.60	27.58	6.71	34.03	101.48	101.74	74.00	-27.74	Peak
2 2483.50	27.58	6.71	34.03	52.00	52.26	74.00	21.74	Peak
3 2487.30	27.58	6.71	34.03	45.42	45.68	74.00	28.32	Peak
4 2492.60	27.58	6.73	34.03	46.28	46.56	74.00	27.44	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.