

**FCC TEST REPORT****FCC 47 CFR Part 15C  
Industry Canada RSS-310****License exempt radio equipment****Report Reference No.** ..... : G0M-1509-5054-TFC209LP-V02**Testing Laboratory** ..... : Eurofins Product Service GmbHAddress ..... : Storkower Str. 38c  
15526 Reichenwalde  
Germany

Accreditation ..... :

A2LA Accredited Testing Laboratory, Certificate No.: 1983.01  
FCC Filed Test Laboratory, Reg.-No.: 96970  
IC OATS Filing assigned code: 3470A**Applicant's name** ..... : Biotronik SE & Co. KGAddress ..... : Woermannkehre 1  
12359 Berlin  
GERMANY**Test specification:**Standard ..... : 47 CFR Part 15C  
RSS-310, Issue 4, 2015-07  
RSS-Gen, Issue 4, 2014-11  
ANSI C63.4:2014

Test scope ..... : complete Radio compliance test

**Equipment under test (EUT):**

Product description ICD / Implantable Cardioverter Defibrillator

Model No. TachNT2

Additional Model(s) Additional Models according to Family Letter

Brand Name(s) BIOTRONIK

Hardware version Rev.: 0A

Firmware / Software version ROM: 5.0 / RAM: 4.0

FCC-ID: QRITACHNT2 IC: 4708A-TACHNT2

**Test result** **Passed**

Test Report No.: G0M-1509-5054-TFC209LP-V02

Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Possible test case verdicts:**

- neither assessed nor tested ..... : N/N
- required by standard but not appl. to test object ..... : N/A
- required by standard but not tested ..... : N/T
- not required by standard for the test object ..... : N/R
- test object does meet the requirement ..... : P (Pass)
- test object does not meet the requirement ..... : F (Fail)

**Testing:**

Test Lab Temperature ..... : 20 – 23 °C

Test Lab Humidity ..... : 32 – 38 %

Date of receipt of test item ..... : 2015-11-02

Date (s) of performance of tests ..... : 2015-11-02 – 2015-11-06

Compiled by ..... : Wilfried Treffke

Tested by (+ signature) ..... : Wilfried Treffke  
(Responsible for Test)



Approved by (+ signature) ..... : Christian Weber  
(Head of Lab)



Date of issue ..... : 2015-11-26

Total number of pages ..... : 40

**General remarks:**

**The test results presented in this report relate only to the object tested.**

**The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.**

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**Additional comments:**

All devices feature the two RF-Telemetry functions Home Monitoring and wireless Wand.

RF-Telemetry functions are using the MICS-Band (402MHz – 405MHz).

A „-T“ inside the name of the device represents a device containing RF-Telemetry.

HF-T are triple-chamber devices.

DR-T are dual-chamber devices.

VR-T are single chamber devices without additional atrial detection.

All variants are available with DF-1 and DF-4.

All of these differences are only relevant in terms of medical aspects. They do not interfere the RF performance.

Antenna pattern measurements were performed for worst case antenna selection and the Intica 7 HF-T QP Ser.60829779 was selected. Besides the model Intica 7 HF-T QP Ser.60829779, as the most complex model, was selected for the measurements.

## TachNT2 Family Explanation (G0M-1509-5054)

### 1. Family Letter

	Product Name	Type	no. of chambers	Connector	max.stored energy	SN
1	Ilivia 7 HF-T	CRT	3	DF-1	40J	60829935
2	Ilivia 7 HF-T	CRT	3	DF-4	40J	60829836
3	Ilivia 7 HF-T QP	CRT	3	DF-1 + IS-4	40J	
4	Ilivia 7 HF-T QP	CRT	3	DF-4 + IS-4	40J	
5	Ilivia 7 DR-T	DR	2	DF-1	40J	60829801
6	Ilivia 7 DR-T	DR	2	DF-4	40J	60829791
7	Ilivia 7 VR-T DX	DX*	1	DF-1	40J	60829804
8	Ilivia 7 VR-T	VR	1	DF-1	40J	60829925
9	Ilivia 7 VR-T	VR	1	DF-4	40J	60829828
10	Intica 7 HF-T	CRT	3	DF-1	40J	
11	Intica 7 HF-T	CRT	3	DF-4	40J	
12	Intica 7 HF-T QP	CRT	3	DF-1 + IS-4	40J	60829771
13	Intica 7 HF-T QP	CRT	3	DF-4 + IS-4	40J	60829779
14	Intica 7 DR-T	DR	2	DF-1	40J	
15	Intica 7 DR-T	DR	2	DF-4	40J	
16	Intica 7 VR-T DX	DX*	1	DF-1	40J	
17	Intica 7 VR-T	VR	1	DF-1	40J	
18	Intica 7 VR-T	VR	1	DF-4	40J	
19	Inlexa 7 HF-T	CRT	3	DF-1	40J	
20	Inlexa 7 HF-T	CRT	3	DF-4	40J	
21	Inlexa 7 HF-T QP	CRT	3	DF-1 + IS-4	40J	
22	Inlexa 7 HF-T QP	CRT	3	DF-4 + IS-4	40J	
23	Inlexa 7 DR-T	DR	2	DF-1	40J	
24	Inlexa 7 DR-T	DR	2	DF-4	40J	
25	Inlexa 7 VR-T DX	DX*	1	DF-1	40J	
26	Inlexa 7 VR-T	VR	1	DF-1	40J	
27	Inlexa 7 VR-T	VR	1	DF-4	40J	
28	Intica 5 HF-T	CRT	3	DF-1	40J	
29	Intica 5 HF-T	CRT	3	DF-4	40J	
30	Intica 5 HF-T QP	CRT	3	DF-1 + IS-4	40J	
31	Intica 5 HF-T QP	CRT	3	DF-4 + IS-4	40J	
32	Intica 5 DR-T	DR	2	DF-1	40J	
33	Intica 5 DR-T	DR	2	DF-4	40J	
34	Intica 5 VR-T DX	DX*	1	DF-1	40J	
35	Intica 5 VR-T	VR	1	DF-1	40J	
36	Intica 5 VR-T	VR	1	DF-4	40J	
37	Inlexa 3 HF-T	CRT	3	DF-1	40J	
38	Inlexa 3 HF-T	CRT	3	DF-4	40J	
39	Inlexa 3 HF-T QP	CRT	3	DF-1 + IS-4	40J	
40	Inlexa 3 HF-T QP	CRT	3	DF-4 + IS-4	40J	
41	Inlexa 3 DR-T	DR	2	DF-1	40J	
42	Inlexa 3 DR-T	DR	2	DF-4	40J	
43	Inlexa 3 VR-T	VR	1	DF-1	40J	
44	Inlexa 3 VR-T	VR	1	DF-4	40J	

\*: additional atrial detection (therapy function)

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 12359 Berlin Germany  
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## 2. Family description

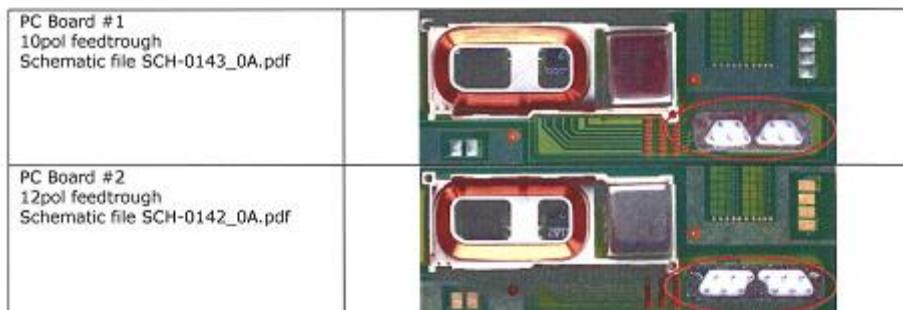
### Header difference overview

Variant	Family member's	PC Board	RF-Antenna
1	VR-T/DF-1 (DX)	#1	#1
2	VR-T/DF-4	#1	#2
3	DR-T/DF-1	#1	#1
4	DR-T/DF-4	#1	#2
5	HF-T/DF-1	#1	#1
6	HF-T/DF-4	#1	#2
7	HF-T/QP (DF-1 / IS-4)	#2	#2
8	HF-T/QP (DF-4 / IS-4)	#2	#2

table 1: PC Board and RF Antenna

### 2.1 PC-Board

All family devices are using the same electronic. This means all active and all passive electrical components are the same. The variant #7 and #8 HF-T QP header device are providing two additional electrical connections to the header. Therefore the variant #7 and #8 are using a different printed circuit board. The difference are the two wires MID3 and PROXIMAL4 (please refer schematic's) and a different feedthrough with 12 pins instead of 10 pins. QP means a quadruple left ventricular lead.

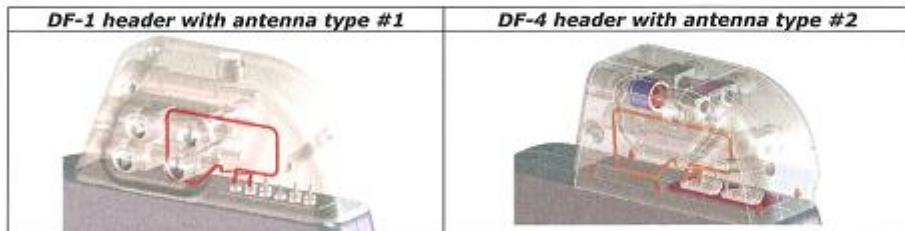


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**2.2 RF-Antenna**

The family members are equipped with two different RF antennas. All DF-1 header based devices are using the same antenna type #1. All DF-4 header based devices are using also the same antenna, but type #2.



*Signature: Mark Briesemeister*

**Date: 11/10/2015**

Mark Briesemeister  
Manager Regulatory Affairs  
BIOTRONIK SE & Co. KG  
Woermannkehre 1  
12359 Berlin  
Germany

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## Version History

Version	Issue Date	Remarks	Revised by
01	2015-11-17	Initial Release	
02	2015-11-26	The Brand Name was corrected.	C. Weber

## REPORT INDEX

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## 1 Equipment (Test item) Description

<b>Description</b>	ICD / Implantable Cardioverter Defibrillator	
<b>Model</b>	TachNT2	
<b>Additional Model(s)</b>	Additional Models according to Family Letter	
<b>Brand Name(s)</b>	BIOTRONIK	
<b>Serial number</b>	60829779	
<b>Hardware version</b>	Rev.: 0A	
<b>Software / Firmware version</b>	ROM: 5.0 / RAM: 4.0	
<b>FCC-ID</b>	QRITACHNT2	
<b>IC</b>	4708A-TACHNT2	
<b>Equipment type</b>	End product	
<b>Radio type</b>	Transceiver	
<b>Radio technology</b>	custom	
<b>Operating frequency range</b>	64 kHz	
<b>Frequency range</b>	$F_{MID}$	64 kHz
<b>Modulations</b>	OOK	
<b>Number of channels</b>	1	
<b>Channel spacing</b>	None	
<b>Number of antennas</b>	1	
<b>Antenna</b>	Type	integrated
	Model	unspecified
	Manufacturer	Biotronik SE & Co. KG
	Gain	unspecified
<b>Manufacturer</b>	Biotronik SE & Co. KG Woermannkehre 1 12359 Berlin GERMANY	
<b>Power supply</b>	$V_{NOM}$	3.0 VDC (Lithium-Battery)
	$V_{MIN}$	N/A
	$V_{MAX}$	N/A
<b>AC/DC-Adaptor</b>	Model	N/A
	Vendor	N/A
	Input	N/A
	Output	N/A

#### 1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
				None
<b>*Note:</b> Use the following abbreviations:				
AE : Auxiliary/Associated Equipment, or				
SIM : Simulator (Not Subjected to Test)				
CABL : Connecting cables				

### 1.5 Test Modes

Mode #	Description	
Single	General conditions:	EUT powered by fully charged battery
	Radio conditions:	Mode = standalone transmit Modulation = OOK Power level = Maximum
Receive	General conditions:	EUT powered by fully charged battery
	Radio conditions:	Mode = standalone receive Modulation = OOK

### 1.6 Test Equipment Used During Testing

<b>Measurement Software</b>			
Description	Manufacturer	Name	Version
EMC Test Software	Dare Instruments	Radimation	2014.1.15

<b>Occupied Bandwidth</b>					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02

<b>Field strength emissions</b>					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber	Frankonia GmbH	AC 2	EF00196		
Spectrum Analyzer	R&S	FSIQ26	EF00242	2015-04	2016-04
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD Antenna	R&S	HL 223	EF00187	2014-03	2017-03
LPD Antenna	R&S	HL 025	EF00327	2015-10	2018-10

## 1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dB $\mu$ V. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dB $\mu$ V/m). The FCC limits are given in units of  $\mu$ V/m. The following formula is used to convert the units of  $\mu$ V/m to dB $\mu$ V/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log (\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

$$\begin{array}{llll} \text{Reading} & + & \text{AF} & = \\ 21.5 \text{ dB}\mu\text{V} & + & 26 \text{ dB} & = \end{array} \begin{array}{llll} \text{Net Reading} & : & \text{Net reading - FCC limit} & = \text{Margin} \\ 47.5 \text{ dB}\mu\text{V/m} & : & 47.5 \text{ dB}\mu\text{V/m} - 57.0 \text{ dB}\mu\text{V/m} & = -9.5 \text{ dB} \end{array}$$

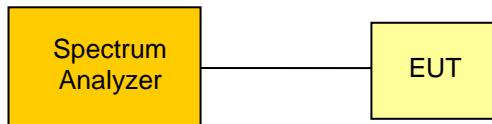
## 2 Result Summary

FCC 47 CFR Part 15C, IC RSS-310				
Product Specific Standard Section	Requirement – Test	Reference Method	Result	Remarks
RSS-Gen 6.6	Occupied Bandwidth	RSS-Gen 6.6	N/R	Informational only
FCC 15.201(a), FCC 15.209 IC RSS-310 3.7	Field strength emissions	ANSI C63.4	PASS	
IC RSS-310 2.6 IC RSS-Gen 7.1	Receiver radiated spurious emissions	ANSI C63.4	PASS	

**Remarks:**

### 3 Test Conditions and Results

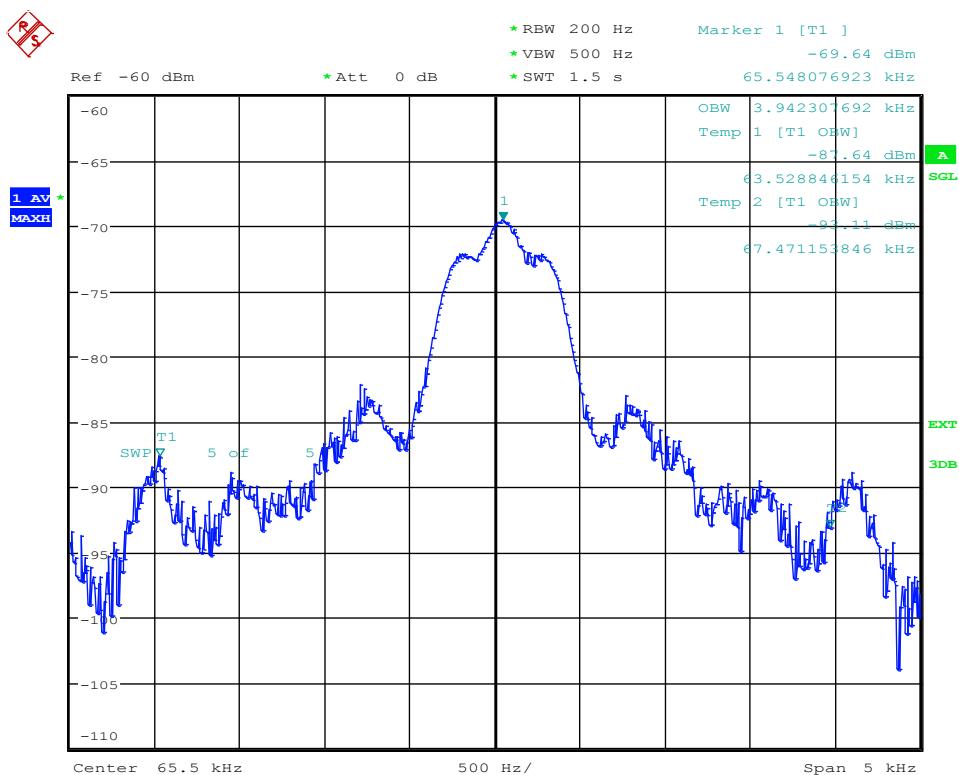
#### 3.1 Test Conditions and Results – Occupied Bandwidth

Occupied Bandwidth acc. to IC RSS-Gen		Verdict: PASS
Test according to measurement reference	Reference Method	
	RSS-Gen 6.6	
Test frequency range	Tested frequencies	
	$F_{MID}$	
EUT test mode	Single	
Limits		
None (Informational only)		
Test setup		
		
Test procedure		
<ol style="list-style-type: none"> <li>1. EUT set to test mode (Communication tester is used if needed)</li> <li>2. Span set to at least twice the emission spectrum</li> <li>3. Resolution bandwidth set to 1 % of span</li> <li>4. Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function</li> </ol>		
Test results		
Channel	Frequency [kHz]	Occupied Bandwidth [kHz]
$F_{MID}$	64	3.94
Comments: Measurement is applicable to all variants		

**Occupied Bandwidth -  $F_{MID}$** 
**Occupied Bandwidth acc. to RSS-Gen**

Project Number: G0M-1509-5054

Applicant: Biotronik SE & Co. KG  
 EUT Name: ICD / Implantable Cardioverter Defibrillator  
 Model: Ilivia 7  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx 64 kHz  
 Test Date: 2015-11-06  
 Verdict: PASS  
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
 Note 2: Near-field measurement test fixture / 64 kHz system



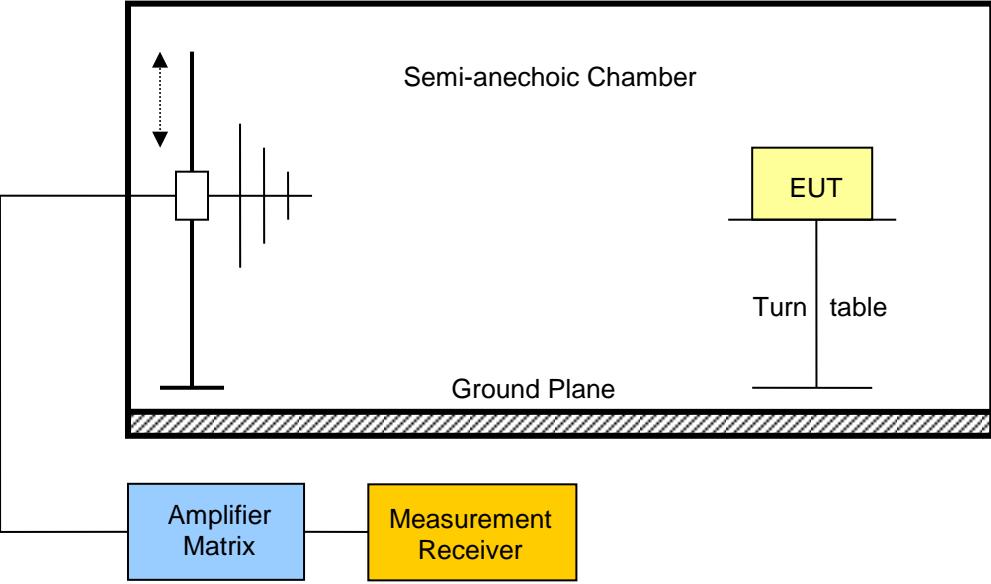
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Test Report No.: G0M-1509-5054-TFC209LP-V02

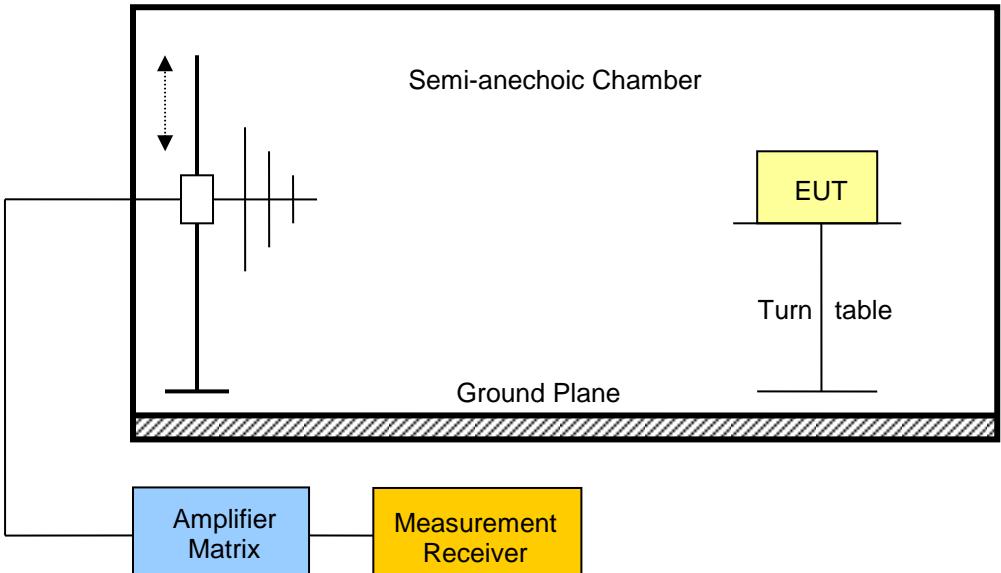
 Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

### 3.2 Test Conditions and Results – Fundamental field strength emissions

Field strength emissions acc. to FCC 47 CFR 15.201 / IC RSS-310		Verdict: PASS		
Test according referenced standards	Reference Method			
	FCC 15.201(a) + 15.209 / IC RSS-310 3.7			
Test according to measurement reference	Reference Method			
	ANSI C63.4			
Test frequency range	Tested frequencies			
	9 kHz – 10 <sup>th</sup> Harmonic			
EUT test mode	Single			
Limits				
Frequency range [MHz]	Detector	Limit [ $\mu$ V/m]	Limit [dB $\mu$ V/m]	Limit Distance [m]
0.009 – 0.490	Quasi-Peak	2400/F[kHz]	48.5 – 13.8	300
0.490 – 1.705	Quasi-Peak	2400/F[kHz]	13.8 – 1.4	30
1.705 – 30	Quasi-Peak	30	29.5	30
30 – 88	Quasi-Peak	100	40	3
88 – 216	Quasi-Peak	150	43.5	3
216 – 960	Quasi-Peak	200	46	3
960 – 1000	Quasi-Peak	500	54	3
> 1000	Average	500	54	3
The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.				

Test setup								
								
Test procedure								
<ol style="list-style-type: none"> <li>1. EUT set to test mode</li> <li>2. Span it set according to measurement range</li> <li>3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz</li> <li>4. Markers are set to maximum emission levels</li> </ol>								
Test results								
Channel	Frequency [kHz]	Emission [kHz]	Level [db $\mu$ V/m]	Detector	Pol.	Limit [db $\mu$ V/m]	Limit distance [m]*	Margin [dB]
F <sub>MID</sub>	64	100.32	-48.60	pk	ver	27.60	3	-76.21
F <sub>MID</sub>	64	153.4	-50.60	avg	ver	23.90	3	-74.46
Comments: * Physical distance between EUT and measurement antenna.								

### 3.4 Test Conditions and Results – Receiver radiated emissions

Receiver radiated emissions acc. to IC RSS-310		Verdict: PASS				
Test according referenced standards	Reference Method					
	IC RSS-310 3.7					
Test according to measurement reference	Reference Method					
	ANSI C63.4					
Test frequency range	Tested frequencies					
	30 MHz – 5 <sup>th</sup> Harmonic					
EUT test mode	Receive					
Limits						
Frequency range [MHz]	Detector	Limit [ $\mu$ V/m]	Limit [dB $\mu$ V/m]	Limit Distance [m]		
0.009 – 0.490	Quasi-Peak	2400/F[kHz]	48.5 – 13.8	300		
0.490 – 1.705	Quasi-Peak	2400/F[kHz]	13.8 – 1.4	30		
1.705 – 30	Quasi-Peak	30	29.5	30		
30 – 88	Quasi-Peak	100	40	3		
88 – 216	Quasi-Peak	150	43.5	3		
216 – 960	Quasi-Peak	200	46	3		
960 – 1000	Quasi-Peak	500	54	3		
> 1000	Average	500	54	3		
Test setup						
						

Test procedure						
1. EUT set to receive mode (Communication tester is used if needed) 2. Span it set according to measurement range 3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz 4. Markers are set to peak emission levels						
Test results						
Channel	Frequency [kHz]	Emission [kHz]	Emission Level [dB $\mu$ V/m]	Det.	Limit [dB $\mu$ V/m]	Margin [dB]
F <sub>MID</sub>	64	100.36	-53.00	pk	27.6	-80.53
Comments:						

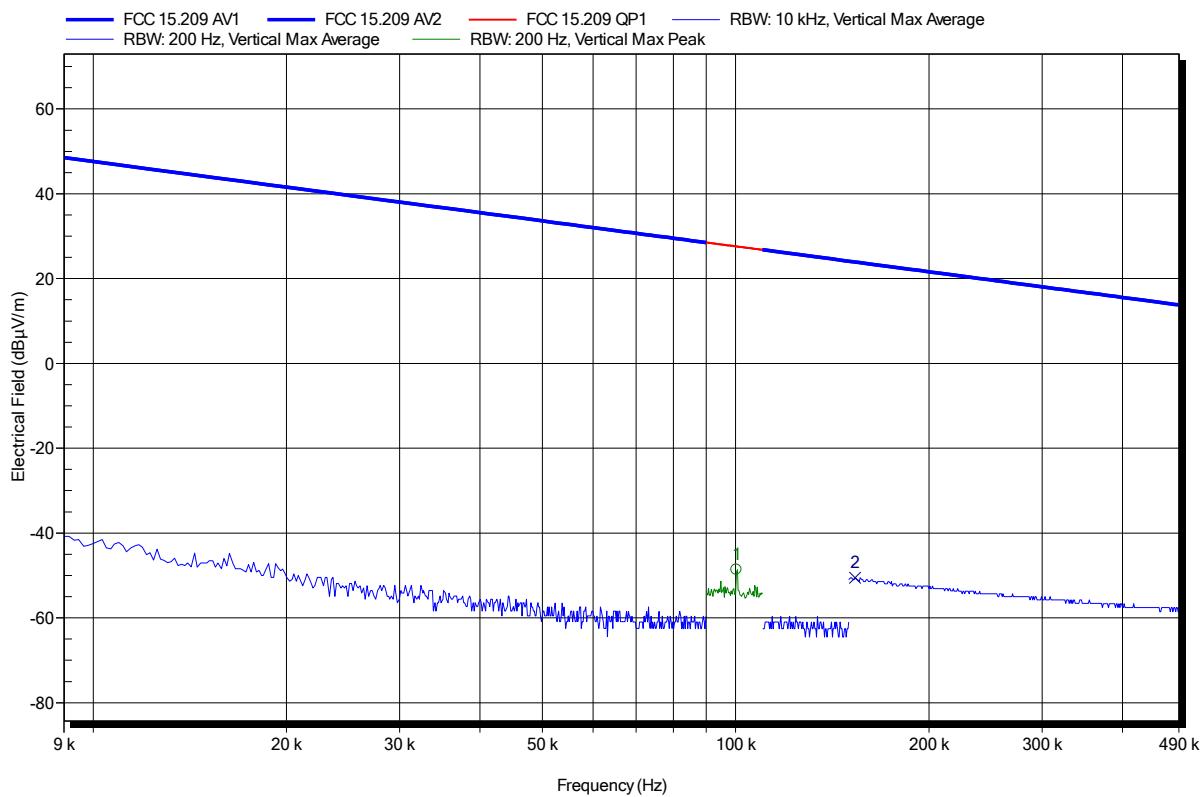
## ANNEX A Transmitter radiated spurious emissions

### Spurious emissions according to FCC 15.209

Project number: G0M-1509-5054

Applicant: Biotronik SE & Co. KG  
 EUT Name: ICD / Implantable Cardioverter Defibrillator  
 Model: TachNT2  
 Test Site: Eurofins Product Service GmbH  
 Operator: Treffke  
 Test Conditions:  $T_{nom} = 25^\circ\text{C}$ ,  $V_{nom} = 3.0 \text{ VDC}$  battery  
 Antenna: Rohde & Schwarz HFH 2-Z2  
 Measurement distance: 3 m converted to 300 m  
 Mode: TX; 64 kHz  
 Test Date: 2015-11-02  
 Note:

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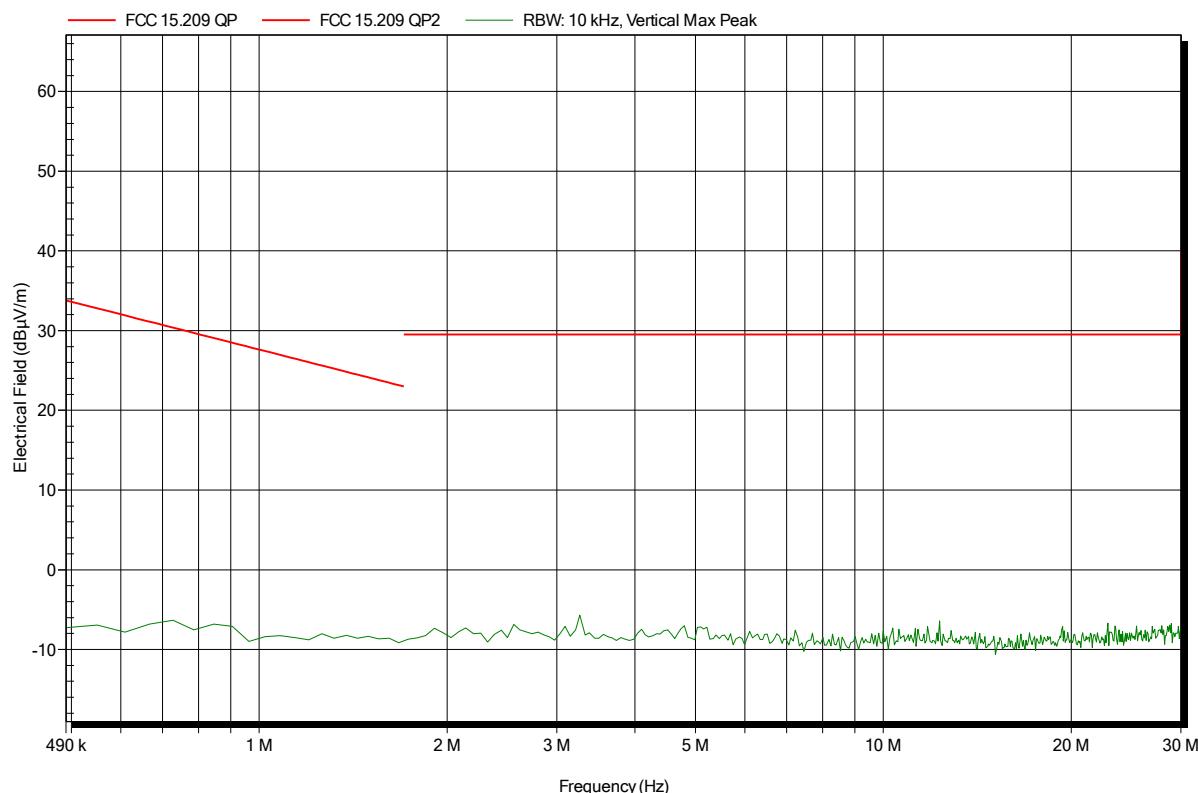
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
100.32 kHz	-48.6 dB $\mu$ V/m	27.6 dB $\mu$ V/m	-76.21 dB	Pass
Frequency	Average	Average Limit	Average Difference	Average Status
153.4 kHz	-50.6 dB $\mu$ V/m	23.9 dB $\mu$ V/m	-74.46 dB	Pass

**Spurious emissions according to FCC 15.209**

Project number: G0M-1509-5054

Applicant: Biotronik SE & Co. KG  
EUT Name: ICD / Implantable Cardioverter Defibrillator  
Model: TachNT2  
Test Site: Eurofins Product Service GmbH  
Operator: Treffke  
Test Conditions:  $T_{nom} = 25^{\circ}\text{C}$ ,  $V_{nom} = 3.0 \text{ VDC}$  battery  
Antenna: Rohde & Schwarz HFH 2-Z2  
Measurement distance: 3 m converted to 30 m  
Mode: TX; 64 kHz  
Test Date: 2015-11-02  
Note:

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Test Report No.: G0M-1509-5054-TFC209LP-V02

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Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

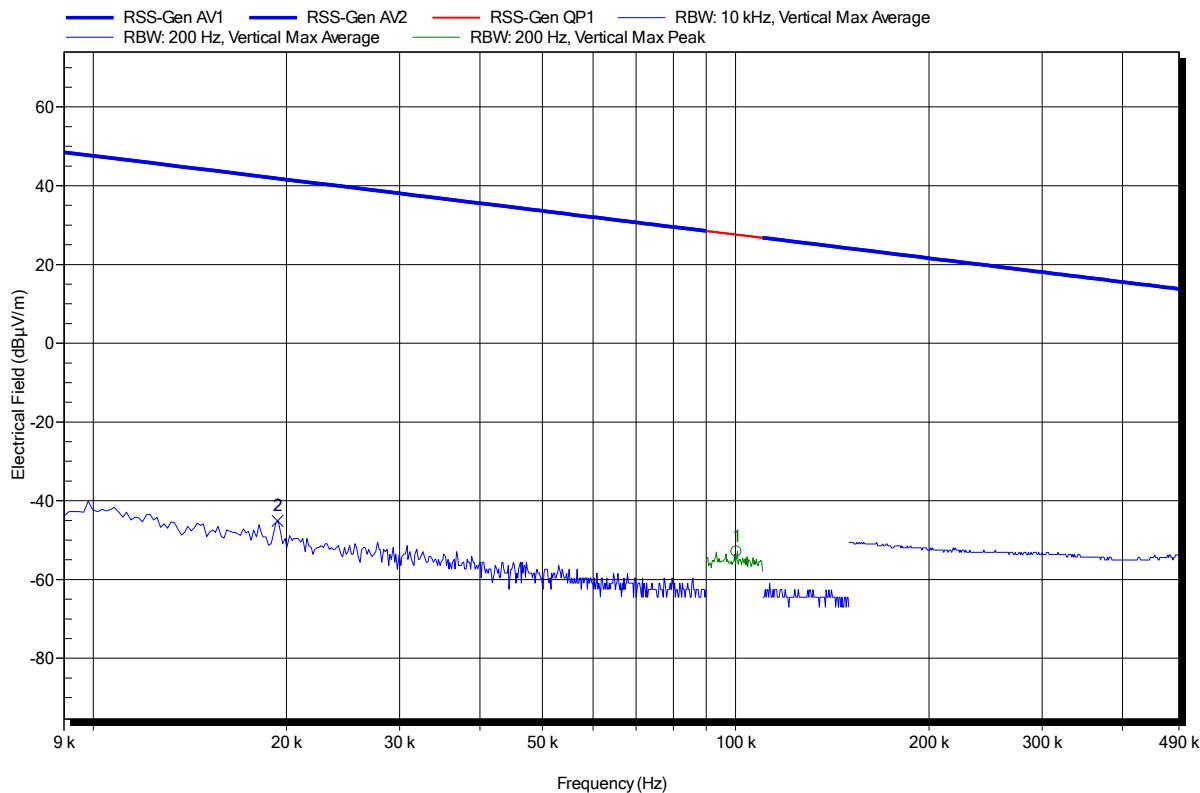
## ANNEX B Receiver radiated spurious emissions

### Spurious emissions according to RSS-Gen

Project number: G0M-1509-5054

Applicant: Biotronik SE & Co. KG  
 EUT Name: ICD / Implantable Cardioverter Defibrillator  
 Model: TachNT2  
 Test Site: Eurofins Product Service GmbH  
 Operator: Treffke  
 Test Conditions:  $T_{nom} = 25^\circ\text{C}$ ,  $V_{nom} = 3.0 \text{ VDC}$  battery  
 Antenna: Rohde & Schwarz HFH 2-Z2  
 Measurement distance: 3 m converted to 300 m  
 Mode: RX; 64 kHz  
 Test Date: 2015-11-02  
 Note:

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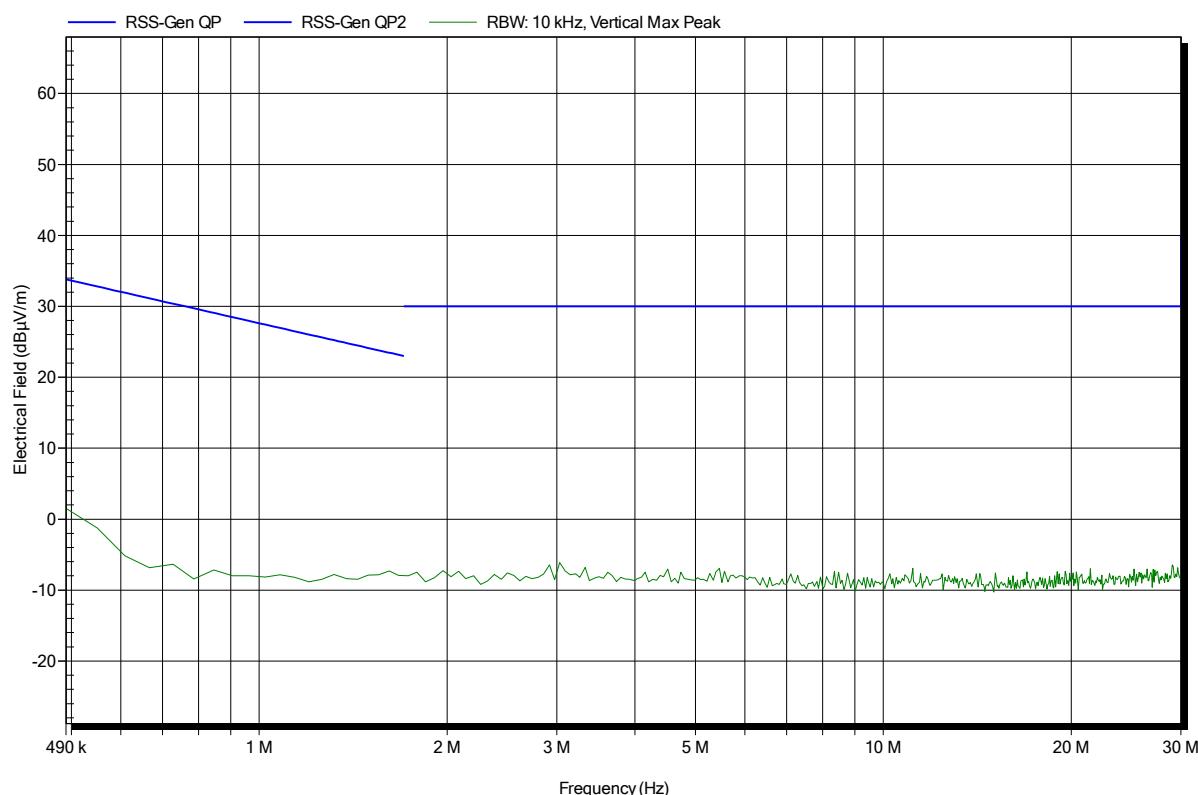
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
100.36 kHz	-53 dB $\mu$ V/m	27.6 dB $\mu$ V/m	-80.53 dB	Pass
Frequency	Average	Average Limit	Average Difference	Average Status
19.368 kHz	-45.1 dB $\mu$ V/m	41.8 dB $\mu$ V/m	-86.94 dB	Pass

### Spurious emissions according to RSS-Gen

Project number: G0M-1509-5054

Applicant: Biotronik SE & Co. KG  
EUT Name: ICD / Implantable Cardioverter Defibrillator  
Model: TachNT2  
Test Site: Eurofins Product Service GmbH  
Operator: Treffke  
Test Conditions: Tnom: 25°C, Vnom: 3.0 VDC battery  
Antenna: Rohde & Schwarz HFH 2-Z2  
Measurement distance: 3 m converted to 30 m  
Mode: RX; 64 kHz  
Test Date: 2015-11-02  
Note:

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Test Report No.: G0M-1509-5054-TFC209LP-V02

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Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

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