

Annex 2: Measurement diagrams to  
**PARTIAL TEST REPORT**  
 No.: 6-0461-14-6-1a

According to:

FCC Part 15.247  
 RSS-247, Issue 1

for

Robert Bosch Car Multimedia GmbH

LCN2K58A10  
 Radio Navigation System  
 (Bluetooth 2.4GHz)

**FCC ID: YBN-LCN2K58A10**  
**IC: 9595A-LCN2K58A10**  
 PMN: Nissan LCN2Kai  
 HVIN: LCN2K58A10

| Laboratory Accreditation and Listings                                                                                                                                                                                                                                                                                                      |                                                                                                                                                   |                                                                                                                                                                        |                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Deutsche<br>Akkreditierungsstelle<br>D-PL-12047-01-01                                                                                                                                                                                               | <br>FEDERAL COMMUNICATIONS COMMISSION<br>USA<br>MRA US-EU 0003 | <br>Industry Canada<br>Reg. No.: 3462D-1<br>Reg. No.: 3462D-2<br>Reg. No.: 3462D-3 | <br>Voluntary Controls for<br>Electromagnetic Emissions<br>Reg. No.:<br>R-2666 C-2914,<br>T-1967, G-301 |
|  AUTHORIZED<br>RF LABORATORY                                                                                                                                                                                                                            | <br>LAB CODE 20011130-00                                      |                                                                                                                                                                        |                                                                                                                                                                                              |
| accredited according to DIN EN ISO/IEC 17025                                                                                                                                                                                                                                                                                               |                                                                                                                                                   |                                                                                                                                                                        |                                                                                                                                                                                              |
| <p><b>CETECOM GmbH</b><br/>Laboratory Radio Communications &amp; Electromagnetic Compatibility<br/>Im Teelbruch 116 • 45219 Essen • Germany<br/>Registered in Essen, Germany, Reg. No.: HRB Essen 8984<br/>Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964<br/>E-mail: info@cetecom.com • Internet: www.cetecom.com</p> |                                                                                                                                                   |                                                                                                                                                                        |                                                                                                                                                                                              |

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## **1. Conducted EMI measurements on AC-mains port according 15.207, class B**

Not applicable since powered from 12V car equipment

## 2. Radiated field strength measurements accord. §15.209&15.205

### 2.1. Magnetic field measurements $f < 30\text{ MHz}$

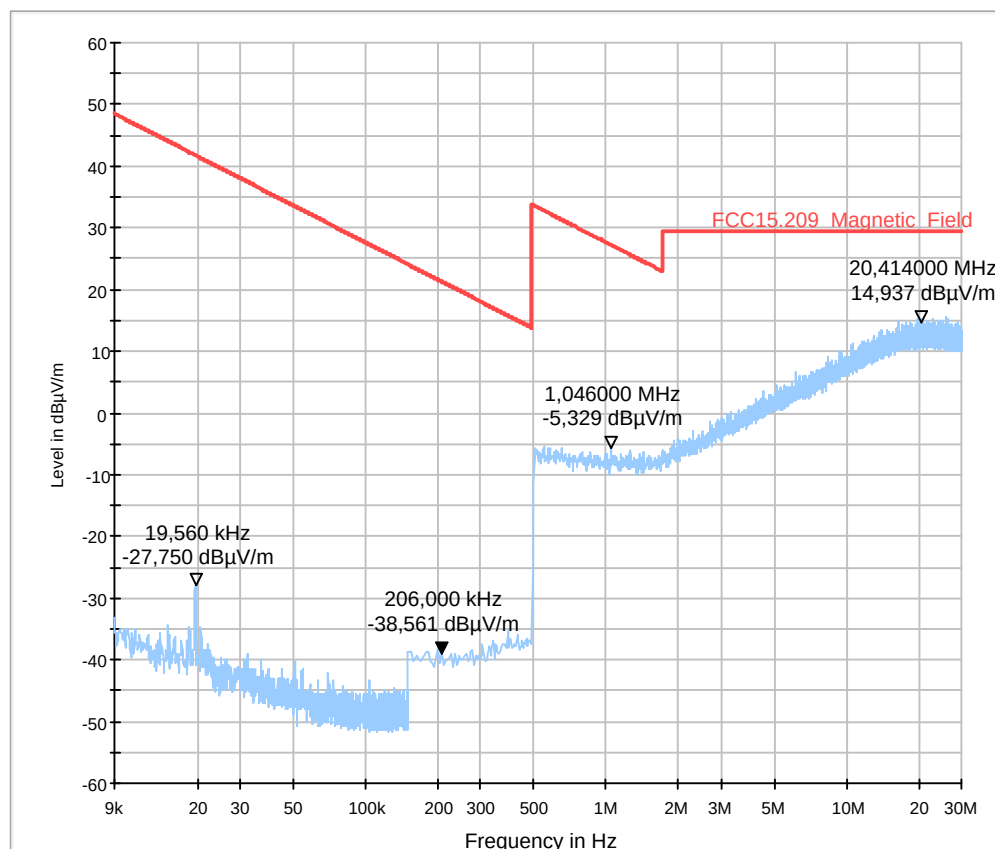
#### 2.1.1. GFSK modulation

### Diagram No. 2.01\_TX\_Ch0\_DH5

|                          |                                                                     |
|--------------------------|---------------------------------------------------------------------|
| Test description:        | 21.05.2015 Page 1 of 2                                              |
| Test site and distance:  | Electric Field Strength Measurement - Band-Edge                     |
| Version of Testsoftware: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance |
| Distance correction:     | EMC32 V8.51.0                                                       |
| Used filter:             | not used                                                            |
| Technical Data:          | not used                                                            |
| Test specification.:     | please see page 2 for detailed data of measurement setup            |
|                          | 15.209/15.205; RSS-Gen., Issue 4                                    |
| Operator:                | HLA                                                                 |
| Operating conditions:    | BT TX Ch:0 _DH5                                                     |
| Power during tests:      | 13.5V DC                                                            |
| Comment 1:               | EUT standing (defined normal position)                              |

#### EUT Information

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Manufacturer:         | Bosch                                         |
| EuT:                  | LCN2K58A10                                    |
| -----                 |                                               |
| HW Version:           | 051                                           |
| SW Version:           | 21                                            |
| Serial Number:        | 002535                                        |
| Connected Interfaces: | -                                             |
| Power Supply:         | via external power supply, nomVolt: 13.50 VDC |



## 2.1.2. $\pi/4$ DQPSK modulation

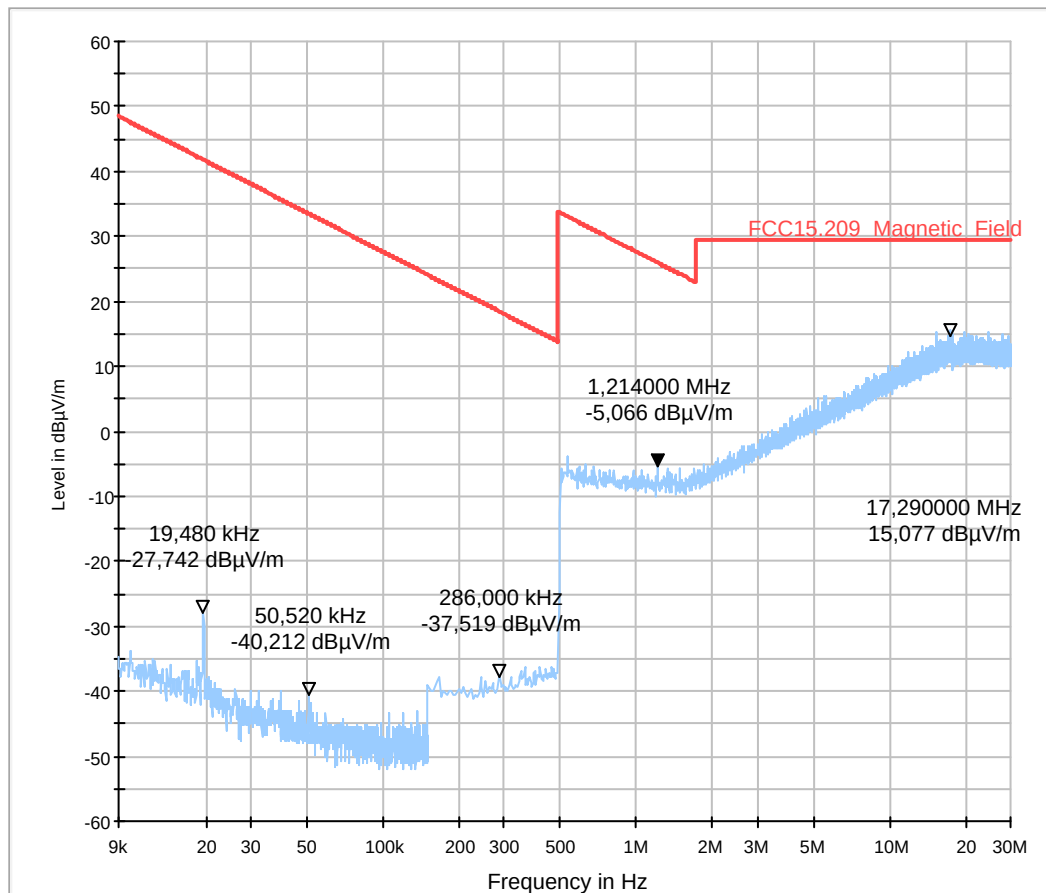
### Diagram No. 2.02\_TX\_Ch39\_2-DH5

21.05.2015 Page 1 of 2  
 Test description: Electric Field Strength Measurement - Band-Edge  
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance  
 Version of Testsoftware: EMC32 V8.51.0  
 Distance correction: not used  
 Used filter: not used  
 Technical Data: please see page 2 for detailed data of measurement setup  
 Test specification.: 15.209/15.205; RSS-Gen., Issue 4

Operator: HLa  
 Operating conditions: BT TX Ch:39\_2DH5  
 Power during tests: 13.5V DC  
 Comment 1: EUT standing (defined normal position)

#### EUT Information

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Manufacturer:         | Bosch                                         |
| EuT:                  | LCN2K58A10                                    |
| -----                 |                                               |
| HW Version:           | 051                                           |
| SW Version:           | 21                                            |
| Serial Number:        | 002535                                        |
| Connected Interfaces: | -                                             |
| Power Supply:         | via external power supply, nomVolt: 13.50 VDC |



### 2.1.3. 8DPSK modulation

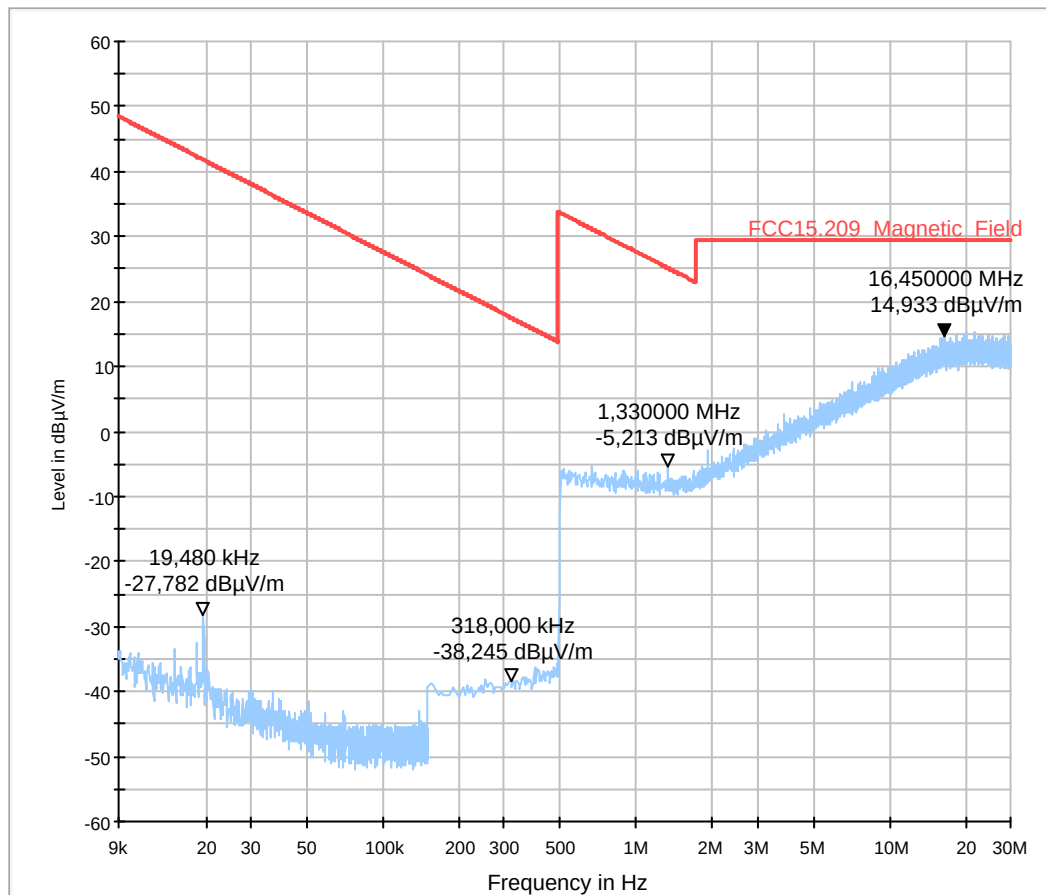
## Diagram No. 2.03\_TX\_Ch78\_3-DH5

Test description: 21.05.2015 Page 1 of 2  
 Test site and distance: Electric Field Strength Measurement - Band-Edge  
 Version of Testsoftware: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance  
 Distance correction: EMC32 V8.51.0  
 Used filter: not used  
 Technical Data: please see page 2 for detailed data of measurement setup  
 Test specification.: 15.209/15.205; RSS-Gen., Issue 4

Operator: HLa  
 Operating conditions: BT TX Ch:78\_3-DH5  
 Power during tests: 13.5V DC  
 Comment 1: EUT standing (defined normal position)

### EUT Information

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Manufacturer:         | Bosch                                         |
| EuT:                  | LCN2K58A10                                    |
| -----                 |                                               |
| HW Version:           | 051                                           |
| SW Version:           | 21                                            |
| Serial Number:        | 002535                                        |
| Connected Interfaces: | -                                             |
| Power Supply:         | via external power supply, nomVolt: 13.50 VDC |



## 2.2. Field strength measurements 30MHz <f <1GHz

### 2.2.1. GFSK modulation

#### Diagram No. 3.01\_TX\_Ch0\_DH5

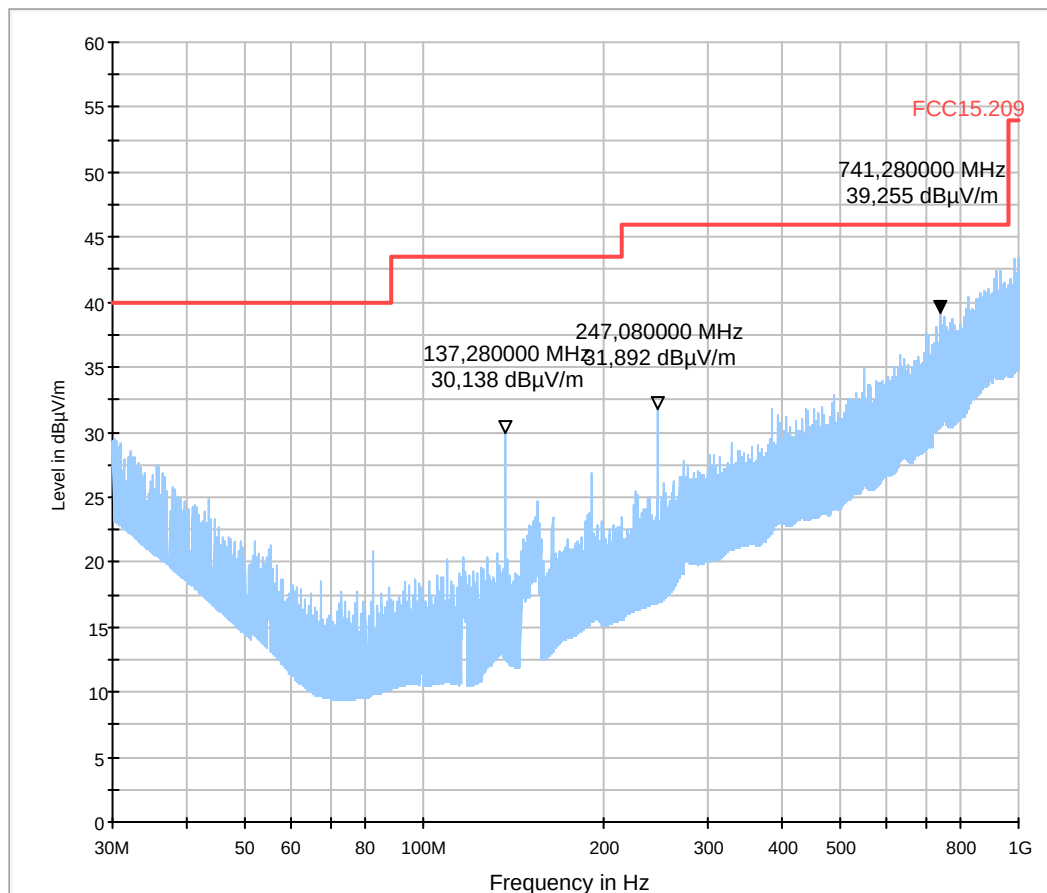
29.05.2015 Page 1 of 1  
 Test description: Electric Field Strength Measurement  
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance  
 Version of Testsoftware: EMC32 V8.51.0  
 Distance correction: not used  
 Used filter: not used  
 Technical Data: please see page 2 for detailed data of measurement setup  
 Test specification.: FCC 15.209; RSS-Gen: Issue 4

Operator: HLa  
 Operating conditions: BT TX Ch:00, DH5  
 Power during tests: 13.5V DC  
 Comment 1: EUT standing (defined normal position)

#### EUT Information

Manufacturer: Bosch  
 EuT: LCN2K58A10  
 -----  
 HW Version: 051  
 SW Version: 21  
 Serial Number: 002535  
 Connected Interfaces: -  
 Power Supply: via external power supply, nomVolt: 13.50 VDC

01\_FCC15.209\_hor+vert\_KP0



## 2.2.2. $\pi/4$ DQPSK modulation

### Diagram No. 3.02\_TX\_Ch39\_2-DH5

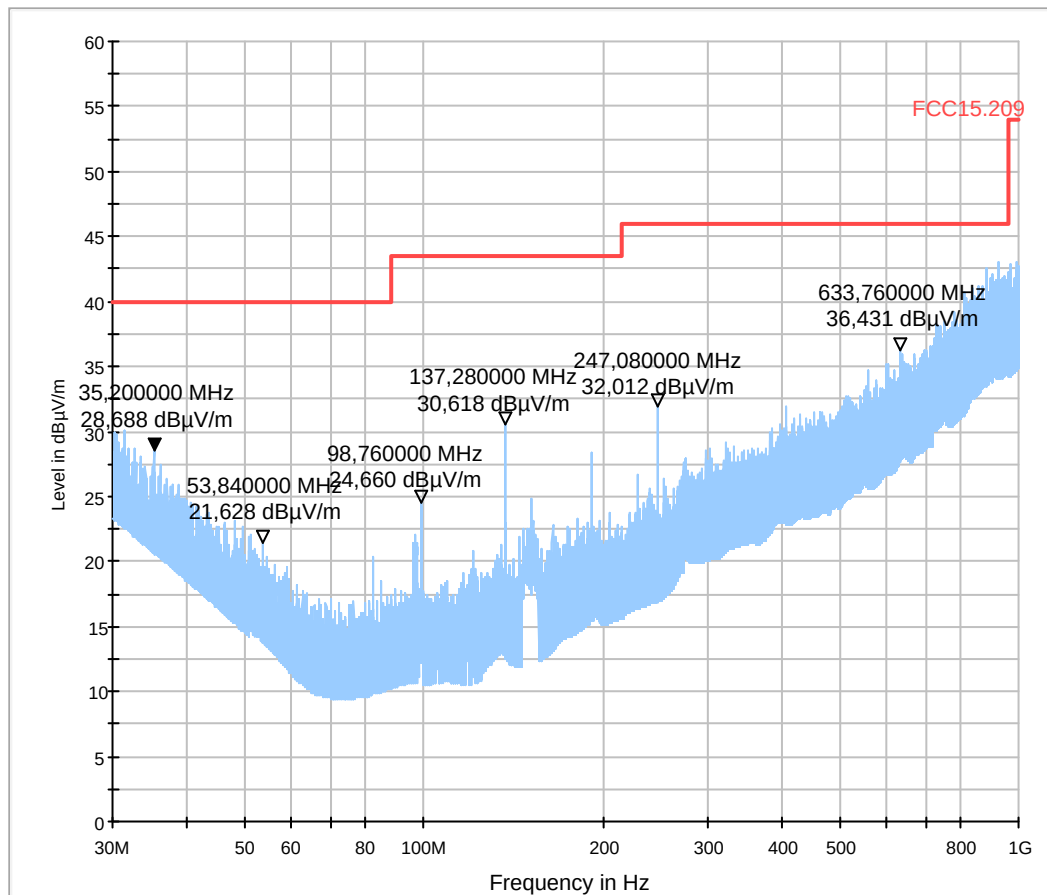
Test description: 29.05.2015 Page 1 of 1  
 Test site and distance: Electric Field Strength Measurement  
 Version of Testsoftware: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance  
 Distance correction: EMC32 V8.51.0  
 Used filter: not used  
 Technical Data: not used  
 Test specification.: please see page 2 for detailed data of measurement setup  
 FCC 15.209; RSS-Gen: Issue 4

Operator: HLa  
 Operating conditions: BT TX Ch:39, 2-DH5  
 Power during tests: 13.5V DC  
 Comment 1: EUT standing (defined normal position)

#### EUT Information

Manufacturer: Bosch  
 EuT: LCN2K58A10  
 -----  
 HW Version: 051  
 SW Version: 21  
 Serial Number: 002535  
 Connected Interfaces: -  
 Power Supply: via external power supply, nomVolt: 13.50 VDC

01\_FCC15.209\_hor+vert\_KP0



### 2.2.3. 8DPSK modulation

## Diagram No. 3.03\_TX\_Ch78\_3-DH5

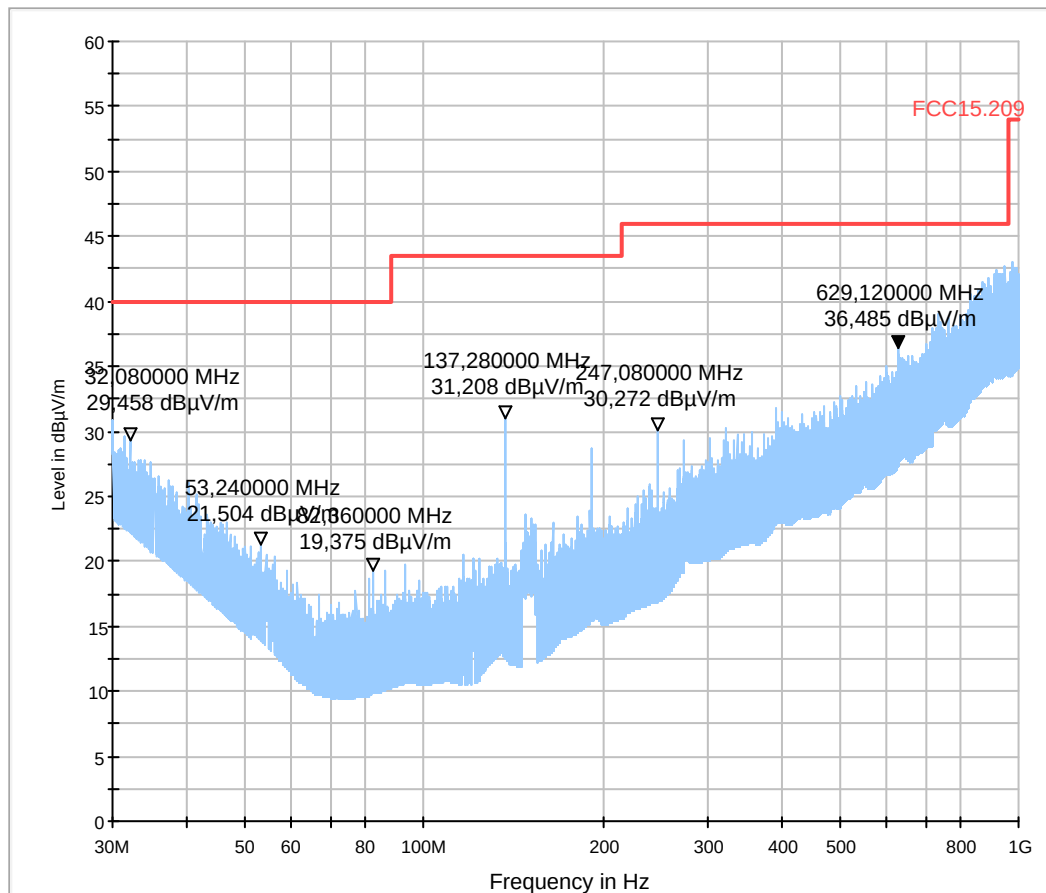
Test description: 29.05.2015 Page 1 of 1  
 Test site and distance: Electric Field Strength Measurement  
 Version of Testsoftware: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance  
 Distance correction: EMC32 V8.51.0  
 Used filter: not used  
 Technical Data: not used  
 Test specification.: please see page 2 for detailed data of measurement setup  
 FCC 15.209; RSS-Gen: Issue 4

Operator: HLa  
 Operating conditions: BT TX Ch:78, 3-DH5  
 Power during tests: 13.5V DC  
 Comment 1: EUT standing (defined normal position)

### EUT Information

Manufacturer: Bosch  
 EuT: LCN2K58A10  
 HW Version: 051  
 SW Version: 21  
 Serial Number: 002535  
 Connected Interfaces: -  
 Power Supply: via external power supply, nomVolt: 13.50 VDC

01\_FCC15.209\_hor+vert\_KP0



## 2.3. Field strength measurements f < 18GHz

### 2.3.1. GFSK modulation

#### Diagram No.: 4.01\_TX\_Ch0\_DH5

##### Common Information

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| Test Description:     | Radiated field strength emission in 3m distance             |
| Test Site:            | CETECOM GmbH Essen                                          |
| Test Standard:        | FCC 15.247&15.209 Intentional Radiator                      |
| Antenna polarisation: | horizontal/vertical                                         |
| Operation mode:       | UE transmits on channel 0 (UL = 2402.0MHz); Packet Type DH5 |
| Operator Name:        | HLA                                                         |
| Comment:              |                                                             |

##### EUT Information

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Manufacturer:         | Bosch                                         |
| EuT:                  | LCN2K58A10                                    |
| HW Version:           | 051                                           |
| SW Version:           | 21                                            |
| Serial Number:        | 002535                                        |
| Connected Interfaces: | -                                             |
| Power Supply:         | via external power supply, nomVolt: 13.50 VDC |
| Comments:             |                                               |

##### Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Polarisation | Azimuth (deg) | Elevation (deg) |
|-----------------|------------------|------------------|----------------|-------------|------------|-----------------|-------------|--------------|---------------|-----------------|
| 4803.660000     | 46.99            | ---              | 74.00          | 27.01       | 100.0      | 1000.000        | 155.0       | V            | 310.0         | 90.0            |
| 4804.020000     | ---              | 37.98            | 54.00          | 16.02       | 100.0      | 1000.000        | 155.0       | V            | 284.0         | 90.0            |

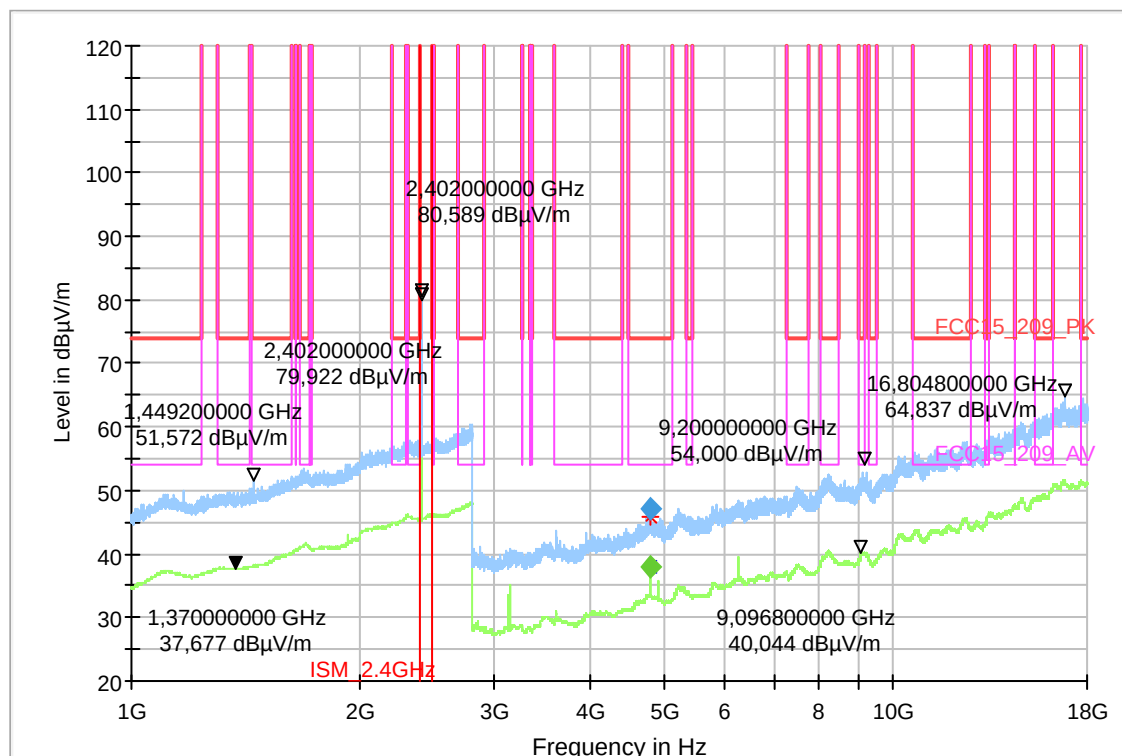


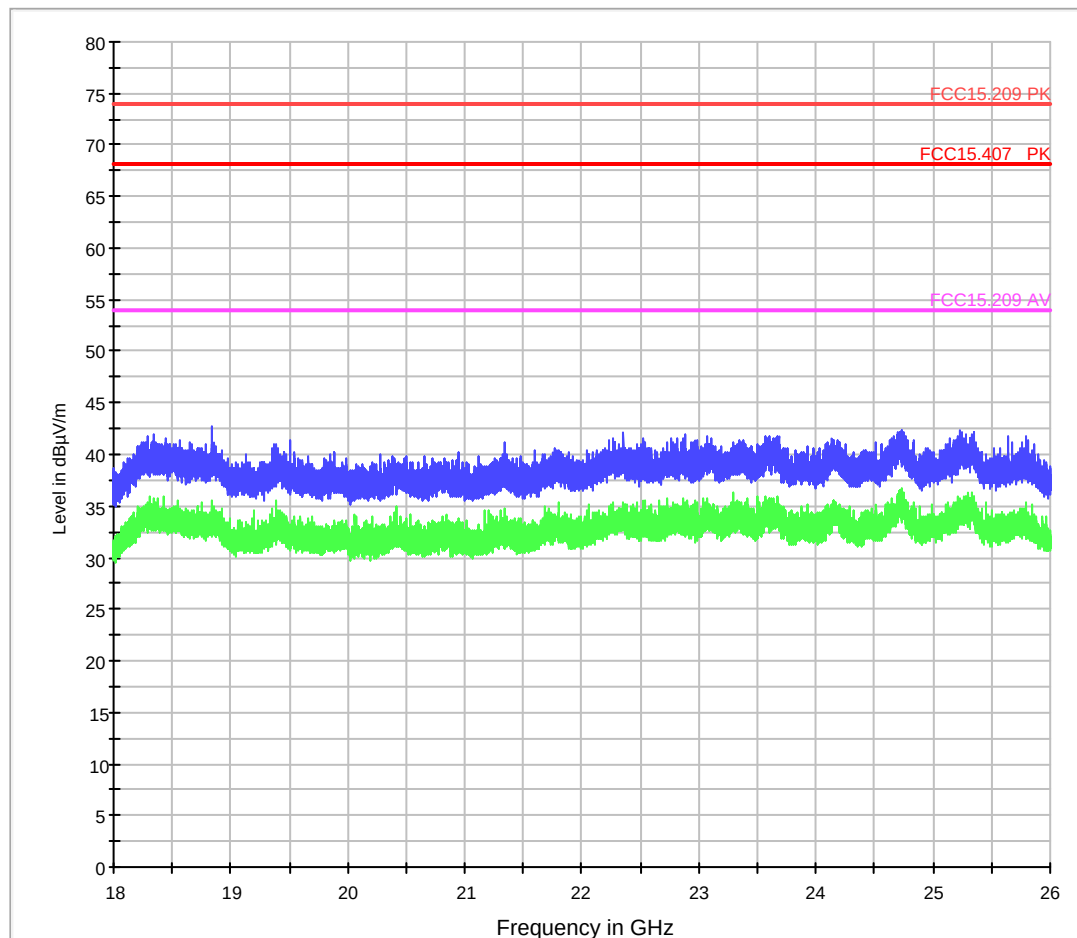
**Diagram No.: 4.07\_TX\_Ch0\_DH5****Common Information**

|                            |                                                   |
|----------------------------|---------------------------------------------------|
| Test Description:          | Radiated field strength emission in 1m distance   |
| Test Site:                 | CETECOM GmbH Essen                                |
| Test Standard:             | FCC 15.247, 15.205&15.209 Intentional Radiator    |
| Antenna polarisation:      | horizontal/vertical                               |
| Distance correction factor | 3 to 1m: -10.5 dB applying to measurement results |
| SW-Version:                | EMC32 V8.53.0                                     |
| Operation mode:            | BT TX mode on Ch0, DH5                            |
| Operator Name:             | HLA                                               |
| Comment:                   | Channel no. low                                   |

**EUT Information**

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Manufacturer:         | Bosch                                         |
| EuT:                  | LCN2K58A10                                    |
| -----                 |                                               |
| HW Version:           | 051                                           |
| SW Version:           | 21                                            |
| Serial Number:        | 002535                                        |
| Connected Interfaces: | -                                             |
| Power Supply:         | via external power supply, nomVolt: 13.50 VDC |

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### 2.3.2. $\pi/4$ DQPSK modulation

## Diagram No.: 4.02\_TX\_Ch39\_2-DH5

### Common Information

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| Test Description:     | Radiated field strength emission in 3m distance                |
| Test Site:            | CETECOM GmbH Essen                                             |
| Test Standard:        | FCC 15.247&15.209 Intentional Radiator                         |
| Antenna polarisation: | horizontal/vertical                                            |
| Operation mode:       | UE transmits on channel 39 (UL = 2441.0MHz); Packet Type 2-DH5 |
| Operator Name:        | HLA                                                            |

### EUT Information

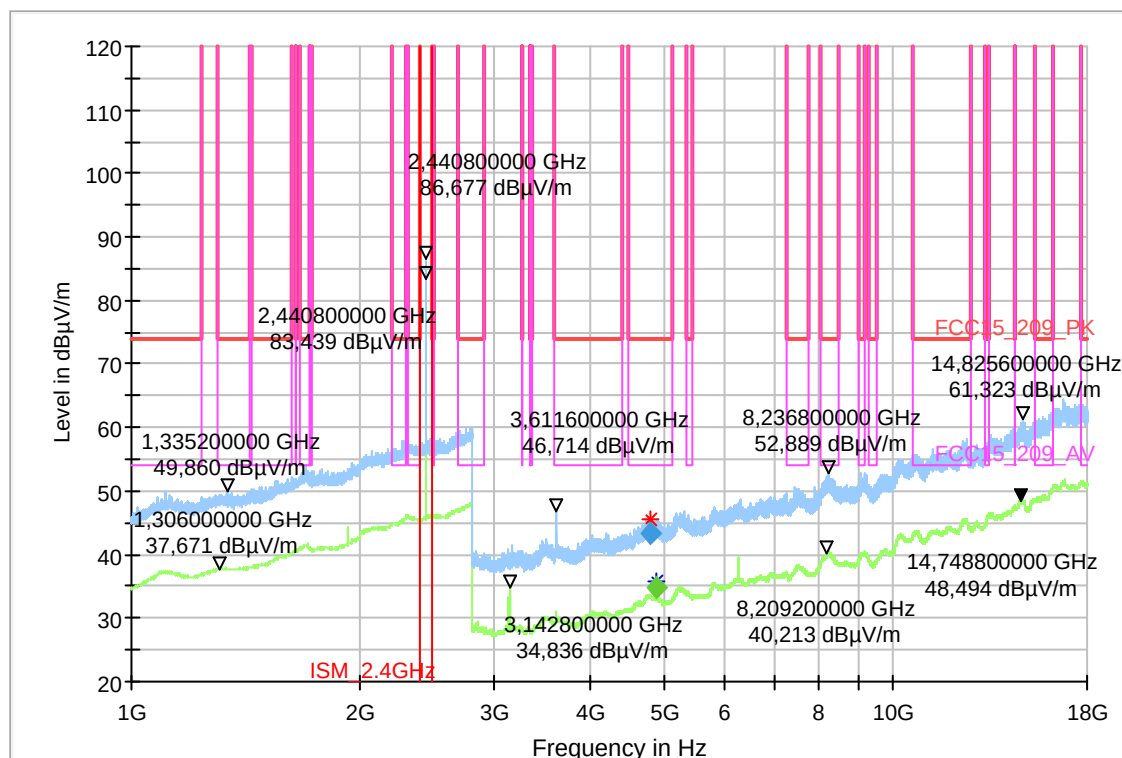
|                       |                                               |
|-----------------------|-----------------------------------------------|
| Manufacturer:         | Bosch                                         |
| EuT:                  | LCN2K58A10                                    |
| HW Version:           | 051                                           |
| SW Version:           | 21                                            |
| Serial Number:        | 002535                                        |
| Connected Interfaces: | -                                             |
| Power Supply:         | via external power supply, nomVolt: 13.50 VDC |
| Comments:             |                                               |

### Final\_Result

| Frequency (MHz) | MaxPeak (dB $\mu$ V/m) | Average (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) |
|-----------------|------------------------|------------------------|----------------------|-------------|------------|-----------------|-------------|-----|---------------|-----------------|
| 4816.860000     | 43.49                  | ---                    | 74.00                | 30.51       | 100.0      | 1000.000        | 155.0       | V   | 234.0         | 90.0            |
| 4881.980000     | ---                    | 34.83                  | 54.00                | 19.17       | 100.0      | 1000.000        | 155.0       | H   | 310.0         | 0.0             |

(continuation of the "Final\_Result" table from column 16 ...)

| Frequency (MHz) | Corr. | Comment               |
|-----------------|-------|-----------------------|
| 4816.860000     | 4.9   | 12:10:13 - 20.05.2015 |
| 4881.980000     | 4.6   | 12:11:51 - 20.05.2015 |



## Diagram No.: 4.08\_TX\_ch39\_3-DH5

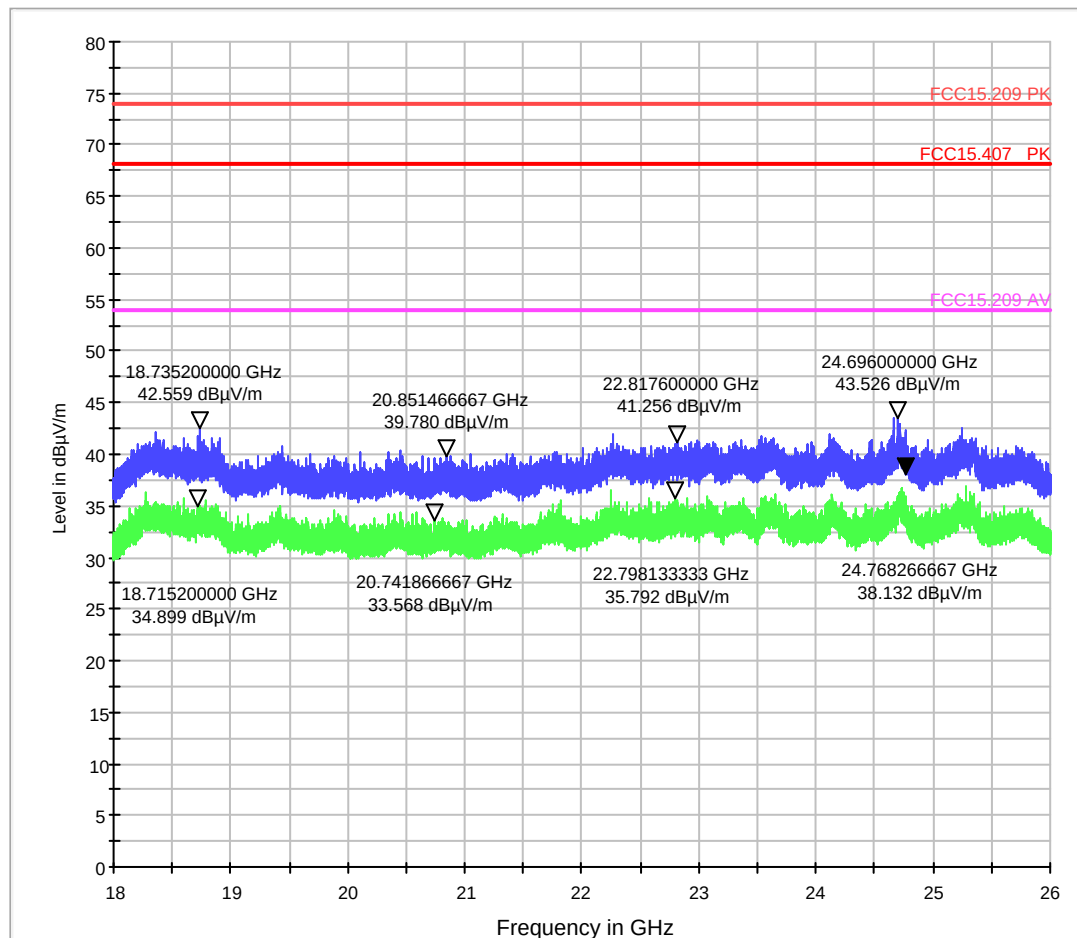
### Common Information

|                            |                                                   |
|----------------------------|---------------------------------------------------|
| Test Description:          | Radiated field strength emission in 1m distance   |
| Test Site:                 | CETECOM GmbH Essen                                |
| Test Standard:             | FCC 15.247, 15.205&15.209 Intentional Radiator    |
| Antenna polarisation:      | horizontal/vertical                               |
| Distance correction factor | 3 to 1m: -10.5 dB applying to measurement results |
| SW-Version:                | EMC32 V8.53.0                                     |
| Operation mode:            | BT TX mode on Ch39, 2-DH5                         |
| Operator Name:             | HLA                                               |
| Comment:                   | Channel no. middle                                |

### EUT Information

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Manufacturer:         | Bosch                                         |
| EuT:                  | LCN2K58A10                                    |
| -----                 | -----                                         |
| HW Version:           | 051                                           |
| SW Version:           | 21                                            |
| Serial Number:        | 002535                                        |
| Connected Interfaces: | -                                             |
| Power Supply:         | via external power supply, nomVolt: 13.50 VDC |

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### 2.3.3. 8DPSK modulation

## Diagram No.: 4.03\_TX\_Ch78\_3-DH5

### Common Information

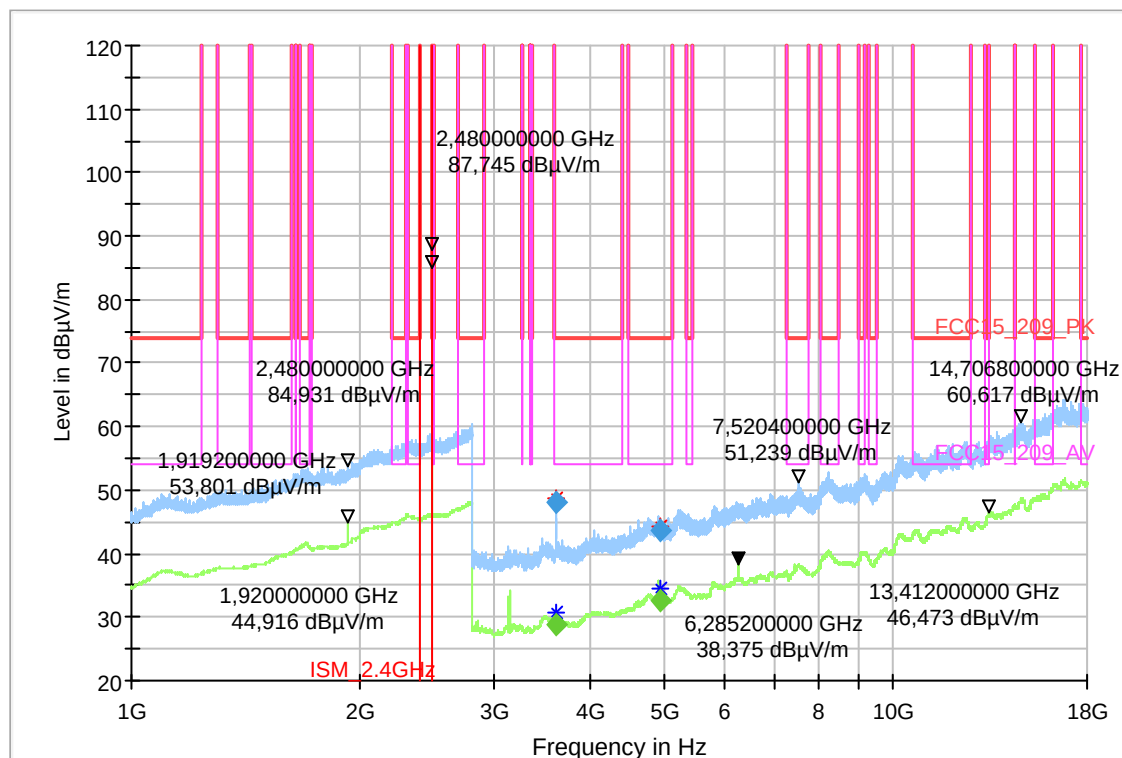
|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| Test Description:     | Radiated field strength emission in 3m distance                |
| Test Site:            | CETECOM GmbH Essen                                             |
| Test Standard:        | FCC 15.247&15.209 Intentional Radiator                         |
| Antenna polarisation: | horizontal/vertical                                            |
| Operation mode:       | UE transmits on channel 78 (UL = 2480.0MHz); Packet Type 3-DH5 |
| Operator Name:        | HLA                                                            |
| Comment:              |                                                                |

### EUT Information

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Manufacturer:         | Bosch                                         |
| EuT:                  | LCN2K58A10                                    |
| HW Version:           | 051                                           |
| SW Version:           | 21                                            |
| Serial Number:        | 002535                                        |
| Connected Interfaces: | -                                             |
| Power Supply:         | via external power supply, nomVolt: 13.50 VDC |
| Comments:             |                                               |

### Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Polarisation | Azimuth (deg) | Elevation (deg) |
|-----------------|------------------|------------------|----------------|-------------|------------|-----------------|-------------|--------------|---------------|-----------------|
| 3612.340000     | ---              | 28.85            | 54.00          | 25.15       | 100.0      | 1000.000        | 155.0       | H            | 135.0         | 90.0            |
| 3612.340000     | 47.96            | ---              | 74.00          | 26.04       | 100.0      | 1000.000        | 155.0       | H            | 127.0         | 0.0             |
| 4959.660000     | 43.56            | ---              | 74.00          | 30.44       | 100.0      | 1000.000        | 155.0       | V            | 139.0         | 0.0             |
| 4960.020000     | ---              | 32.63            | 54.00          | 21.37       | 100.0      | 1000.000        | 155.0       | H            | 318.0         | 0.0             |



## Diagram No.: 4.09\_TX\_ch78\_3-DH5

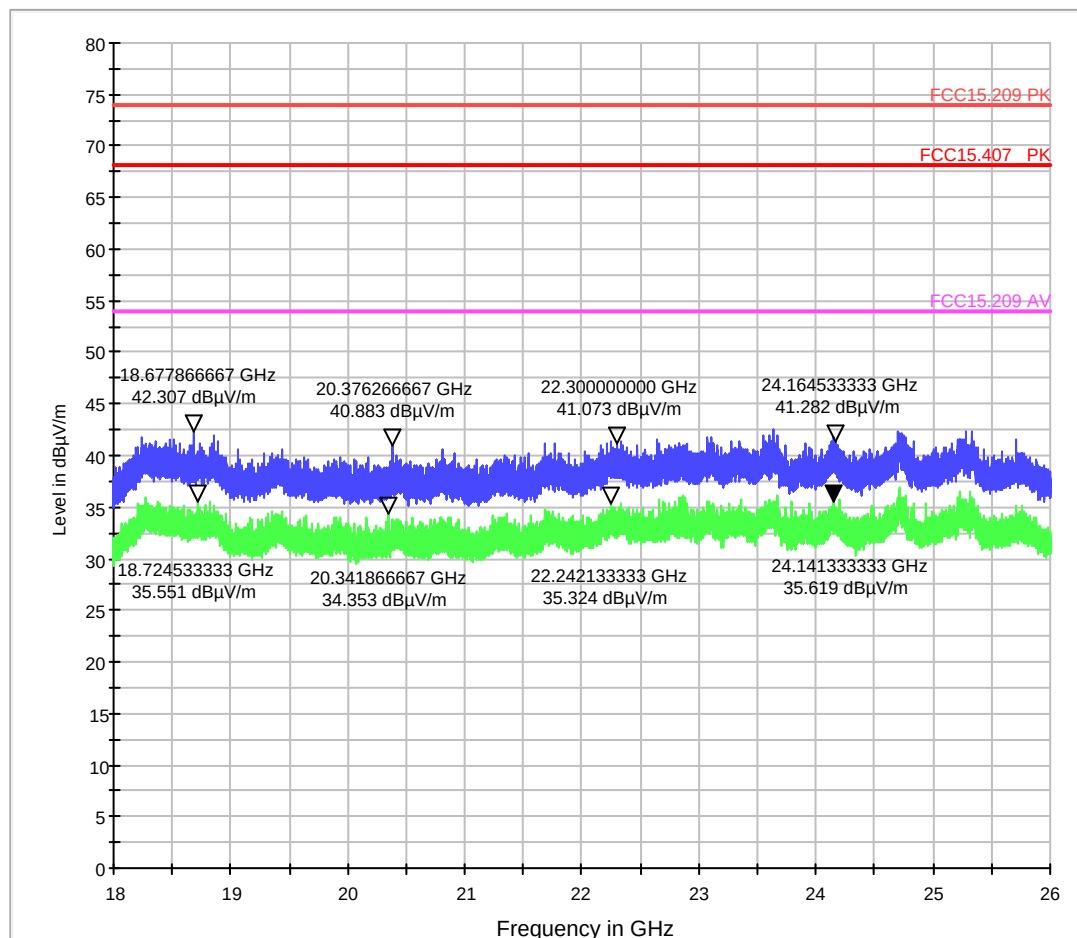
### Common Information

|                            |                                                   |
|----------------------------|---------------------------------------------------|
| Test Description:          | Radiated field strength emission in 1m distance   |
| Test Site:                 | CETECOM GmbH Essen                                |
| Test Standard:             | FCC 15.247, 15.205&15.209 Intentional Radiator    |
| Antenna polarisation:      | horizontal/vertical                               |
| Distance correction factor | 3 to 1m: -10.5 dB applying to measurement results |
| SW-Version:                | EMC32 V8.53.0                                     |
| Operation mode:            | BT TX mode on Ch78, 3-DH5                         |
| Operator Name:             | HLA                                               |
| Comment:                   | Channel no. high=78                               |

### EUT Information

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Manufacturer:         | Bosch                                         |
| EuT:                  | LCN2K58A10                                    |
| -----                 |                                               |
| HW Version:           | 051                                           |
| SW Version:           | 21                                            |
| Serial Number:        | 002535                                        |
| Connected Interfaces: | -                                             |
| Power Supply:         | via external power supply, nomVolt: 13.50 VDC |

FCC\_Sweep\_15.407\_18\_40GHz\_Pre



### 3. Radiated band-edge measurements accord. §15.209 & §15.205 (§15.247)

#### 3.1. Channel 0 (left band edge )

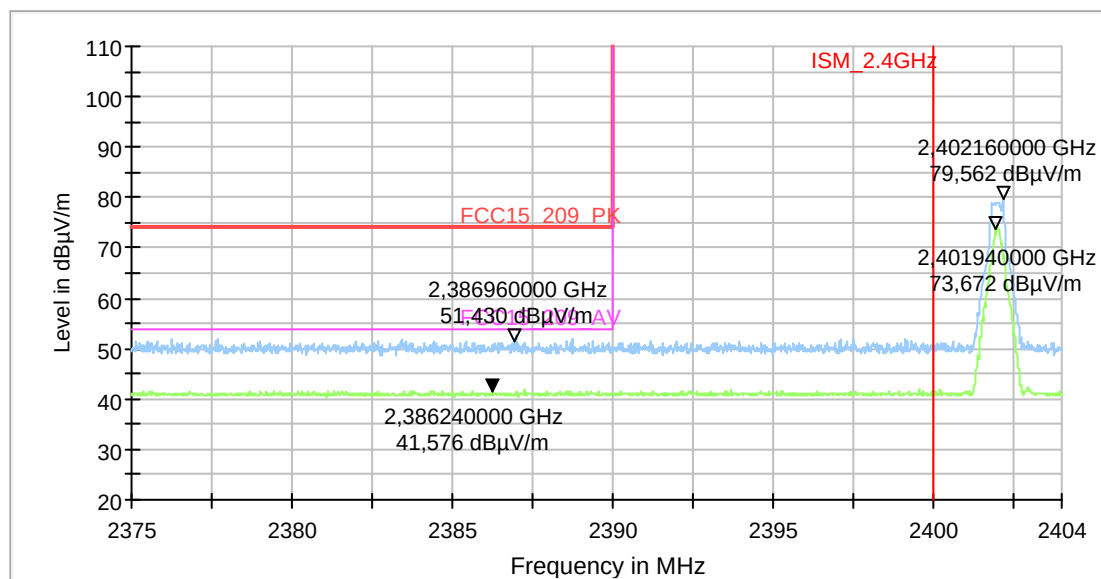
#### Diagram No.: 9.01\_BE\_high\_Ch0\_DH5

##### Common Information

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| Test Description:     | Radiated Band-Edge Emissions in 3m distance                 |
| Test Site:            | CETECOM GmbH Essen                                          |
| Test Standard:        | FCC 15.205&15.209 Intentional Radiator                      |
| Antenna polarisation: | horizontal/vertical                                         |
| Operation mode:       | UE transmits on channel 0 (UL = 2402.0MHz); Packet Type DH5 |
| Operator Name:        | HLA                                                         |
| Comment:              | EMC32 V9.15.0                                               |

##### EUT Information

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Manufacturer:         | Bosch                                         |
| EuT:                  | LCN2K58A10                                    |
| HW Version:           | 051                                           |
| SW Version:           | 21                                            |
| Serial Number:        | 002535                                        |
| Connected Interfaces: | -                                             |
| Power Supply:         | via external power supply, nomVolt: 13.50 VDC |
| Comments:             |                                               |



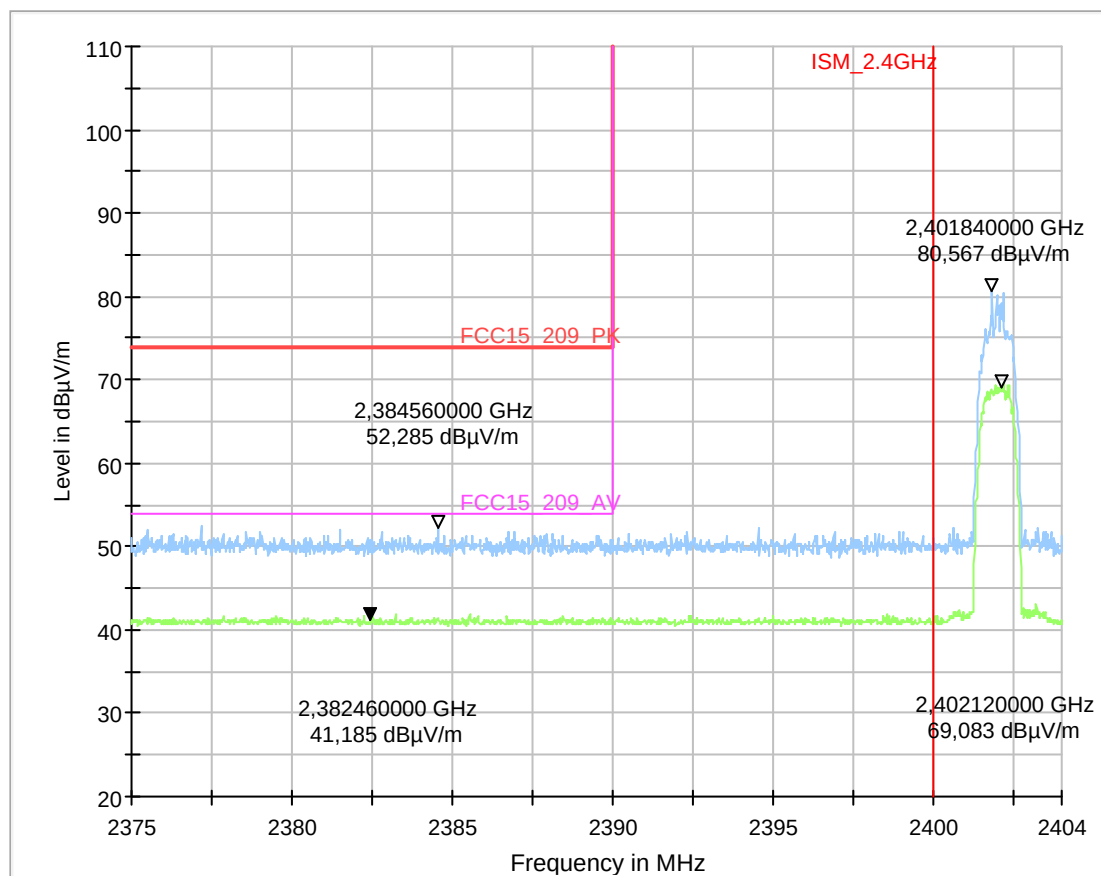
## Diagram No.: 9.03\_BE\_high\_Ch0\_3-DH5

### Common Information

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| Test Description:     | Radiated Band-Edge Emissions in 3m distance                 |
| Test Site:            | CETECOM GmbH Essen                                          |
| Test Standard:        | FCC 15.205&15.209 Intentional Radiator                      |
| Antenna polarisation: | horizontal/vertical                                         |
| Operation mode:       | UE transmits on channel 0 (UL = 2402.0MHz); Packet Type DH5 |
| Operator Name:        | HLa                                                         |
| Comment:              | EMC32 V9.15.0                                               |

### EUT Information

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Manufacturer:         | Bosch                                         |
| EuT:                  | LCN2K58A10                                    |
| -----                 | -----                                         |
| HW Version:           | 051                                           |
| SW Version:           | 21                                            |
| Serial Number:        | 002535                                        |
| Connected Interfaces: | -                                             |
| Power Supply:         | via external power supply, nomVolt: 13.50 VDC |
| Comments:             |                                               |



### 3.2. Channel 78 (right band edge)

#### Diagram No.: 9.04\_BE\_high\_Ch78\_DH5

##### Common Information

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| Test Description:     | Radiated Band-Edge Emissions in 3m distance                    |
| Test Site:            | CETECOM GmbH Essen                                             |
| Test Standard:        | FCC 15.205&15.209 Intentional Radiator                         |
| Antenna polarisation: | horizontal/vertical                                            |
| Operation mode:       | UE transmits on channel 78 (UL = 2480.0MHz); Packet Type 3-DH5 |
| Operator Name:        | HLA                                                            |
| Comment:              | EMC32 V9.15.0                                                  |

##### EUT Information

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Manufacturer:         | Bosch                                         |
| EuT:                  | LCN2K58A10                                    |
| -----                 | -----                                         |
| HW Version:           | 051                                           |
| SW Version:           | 21                                            |
| Serial Number:        | 002535                                        |
| Connected Interfaces: | -                                             |
| Power Supply:         | via external power supply, nomVolt: 13.50 VDC |
| Comments:             |                                               |

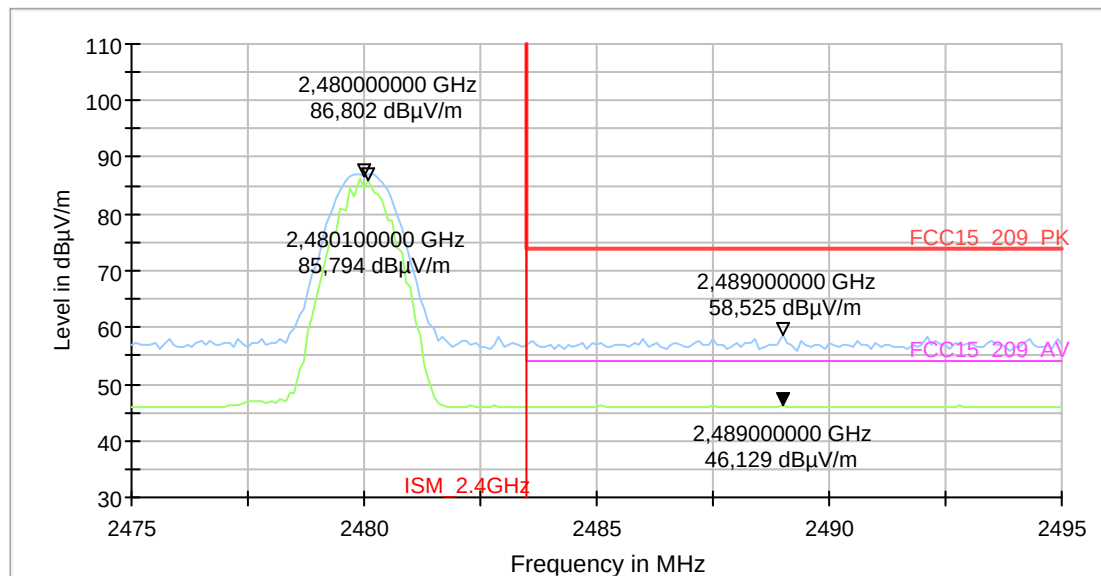
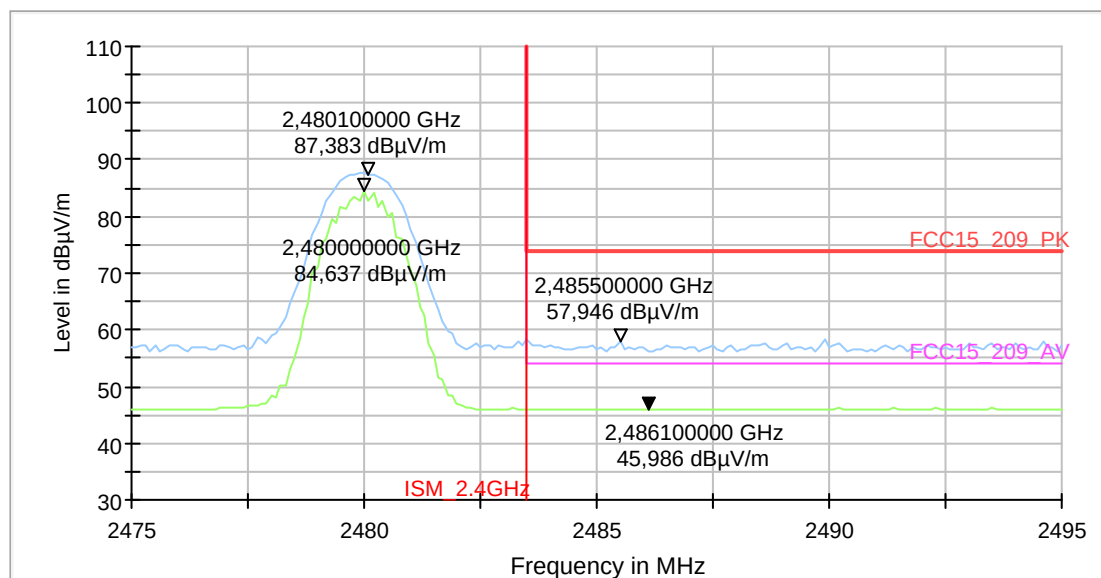


**Diagram No.: 9.02\_BE\_high\_Ch78\_3-DH5****Common Information**

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| Test Description:     | Radiated Band-Edge Emissions in 3m distance                    |
| Test Site:            | CETECOM GmbH Essen                                             |
| Test Standard:        | FCC 15.205&15.209 Intentional Radiator                         |
| Antenna polarisation: | horizontal/vertical                                            |
| Operation mode:       | UE transmits on channel 78 (UL = 2480.0MHz); Packet Type 3-DH5 |
| Operator Name:        | HLA                                                            |
| Comment:              | EMC32 V9.15.0                                                  |

**EUT Information**

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Manufacturer:         | Bosch                                         |
| EuT:                  | LCN2K58A10                                    |
| -----                 | -----                                         |
| HW Version:           | 051                                           |
| SW Version:           | 21                                            |
| Serial Number:        | 002535                                        |
| Connected Interfaces: | -                                             |
| Power Supply:         | via external power supply, nomVolt: 13.50 VDC |
| Comments:             |                                               |



## 4. MPE calculation

A minimum distance to the user of 20cm is assumed.

Following calculations show assumption with the limits with a duty-cycle of 60%. (3 active slots maximum of a maximum of 5 slots)

| Operation Mode | Frequency on channel<br>(MHz) | Declared maximum conducted output power<br>(dBm) | Antenna Gain Max.<br>(dBi) | Max. positive tolerance according manufacturer<br>(dB) | Declared maximum output power (Measured+ Tune-up)<br>(dBm) | Duty cycle | Declared Maximum conducted output power<br>(W) | Equivalent conducted output power (maximum conducted output power x duty cycle)<br>(mW) |
|----------------|-------------------------------|--------------------------------------------------|----------------------------|--------------------------------------------------------|------------------------------------------------------------|------------|------------------------------------------------|-----------------------------------------------------------------------------------------|
| BT 2.4GHz      | 2402,0                        | 1,83                                             | 0,00                       | 0,00                                                   | 1,83                                                       | 60%        | 0,0015                                         | 0,914                                                                                   |
|                | 2441,0                        | 1,33                                             | 0,00                       |                                                        | 1,33                                                       |            | 0,0014                                         | 0,815                                                                                   |
|                | 2480,0                        | 0,24                                             | 0,00                       |                                                        | 0,24                                                       |            | 0,0011                                         | 0,634                                                                                   |

| Maximum calculated MPE value: |        |            |
|-------------------------------|--------|------------|
| MPE-Limit:                    | 1      | [mW/cm ^2] |
| Highest MPE value:            | 0,0002 | [mW/cm ^2] |
| Margin to limit               | 0,9998 | [mW/cm ^2] |

Note: the device is exempt from routine (RF exposure) evaluation because the eirp exemption limit for 2480MHz is 33.7dBm (see 2.5.2 of RSS-102 i5) which is way above the eirp of the BT transmitter under consideration