

**Annex 1: Measurement diagrams to  
TEST REPORT  
No.: 16-1-0050601T41a**







According to:  
**FCC Regulations**  
Part 22, Part 24, Part 27

**ISED-Regulations**  
RSS-132 Issue 3, RSS-133 Issue 6,  
RSS-139 Issue 2, RSS-Gen Issue 4

**peiker acustics GmbH & Co. KG**

**GSM/ WCDMA/ LTE Telematics US Module  
V1231-0**

FCC-ID: QWY-V1231-0  
ISED ID: 6588A-V12310  
PMN: V1231-0  
HVIN: V1231-0

Laboratory Accreditation and Listings		
 <p>Deutsche Akkreditierungsstelle D-PL-12047-01-01</p> <p>Accredited EMC-Test Laboratory</p>	 <p>Industry Canada</p> <p>Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3</p>	 <p>Voluntary Controls for Electromagnetic Emissions</p> <p>Reg. No.: R-20013, C-20009, T-20006, G-20013</p>
 <p>AUTHORIZED RF LABORATORY</p>	 <p>Authorized™ Test Lab</p> <p>Lab Code: 20011130-00</p>	 <p>FEDERAL COMMUNICATIONS COMMISSION U.S.A.</p> <p>MRA US-EU 0003</p>
accredited according to DIN EN ISO/IEC 17025		
<p align="center"><b>CETECOM GmbH</b> Laboratory Radio Communications &amp; Electromagnetic Compatibility Im Teelbruch 116 • 45219 Essen • Germany Registered in Essen, Germany, Reg. No.: HRB Essen 8984 Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964 E-mail: info@cetecom.com • Internet: www.cetecom.com</p>		
Laboratory Accreditation and Listings		

## Table of contents

<b>1. CONDUCTED POWER MEASUREMENTS ON RF-PORT .....</b>	<b>3</b>
<b>2. PAPR-MEASUREMENTS (CCDF-PLOTS).....</b>	<b>4</b>
2.1. FDD Band II transmitting mode .....	4
2.2. FDD Band IV transmitting mode.....	6
2.3. FDD Band V transmitting mode.....	8
<b>3. RADIATED EMISSION MEASUREMENTS .....</b>	<b>10</b>
3.1. Magnetic field emission measurements §15.209 (FDD Band II transmitting mode).....	10
3.2. Magnetic field emission measurements §15.209 (FDD Band IV transmitting mode) .....	17
3.3. Magnetic field emission measurements §15.209 (FDD Band V transmitting mode) .....	23
3.4. Spurious emissions radiated (FDD Band II transmitting mode) .....	35
3.5. Spurious emissions radiated (FDD Band IV transmitting mode) .....	41
3.6. Spurious emissions radiated (FDD Band V transmitting mode).....	47
3.7. Radiated emissions on FDD Band II band-edge.....	54
3.8. Radiated emissions on FDD Band IV band-edge .....	58
3.9. Radiated emissions on FDD Band V band-edge.....	62
3.10. 26dBc Emission bandwidth .....	66
3.11. 99% Occupied bandwidth.....	72
3.12. Spurious emissions conducted on FDD Band II .....	78
3.13. Spurious emissions conducted on FDD Band IV.....	81
3.14. Spurious emissions conducted on FDD Band V .....	84
3.15. Conducted emissions on FDD Band II band-edge.....	87
3.16. Conducted emissions on FDD Band IV band-edge .....	88
3.17. Conducted emissions on FDD Band V band-edge.....	89

## 1. Conducted power measurements on RF-port

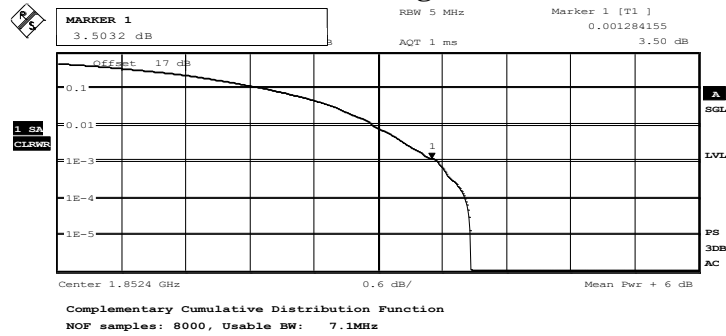
<b>RMC99 - FDD2</b>				
	ARFCN-Frequency [MHz]	Peak detektor [dBm]	RMS detektor [dBm]	PAR Faktor [dB]
Channel 9262	1852,4	26,0	22,5	3,5
Channel 9400	1880.0	26,0	22,6	3,4
Channel 9538	1907,6	25,1	21,8	3,3

<b>RMC99 - FDD4</b>				
	ARFCN-Frequency [MHz]	Peak detektor [dBm]	RMS detektor [dBm]	PAR Faktor [dB]
Channel 1312	1712,4	26,5	23,0	3,5
Channel 1450	1740	26,6	22,7	3,9
Channel 1513	1752,6	26,9	22,9	4,0

<b>RMC99 - FDD 5</b>				
	ARFCN-Frequency [MHz]	Peak detektor [dBm]	RMS detektor [dBm]	PAR Faktor [dB]
Channel 4132	826.4	26,9	23,1	3,7
Channel 4185	837	27,2	23,4	3,8
Channel 4233	846.6	27,4	23,2	4,2

## 2. PAPR-Measurements (CCDF-plots)

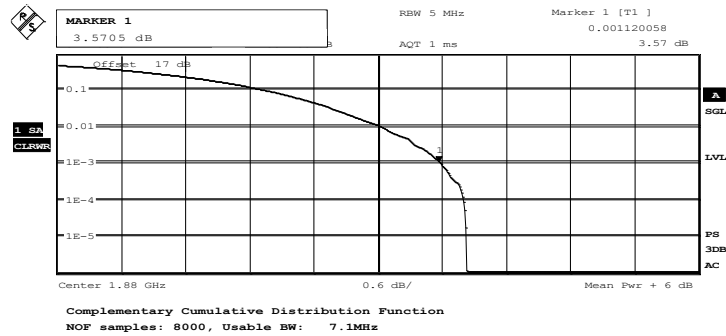
### 2.1. FDD Band II transmitting mode



Trace 1	
Mean	23.07 dBm
Peak	26.93 dBm
Crest	3.87 dB
10 %	1.97 dB
1 %	2.95 dB
.1 %	3.56 dB
.01 %	3.82 dB

Date: 27.JAN.2017 14:48:30

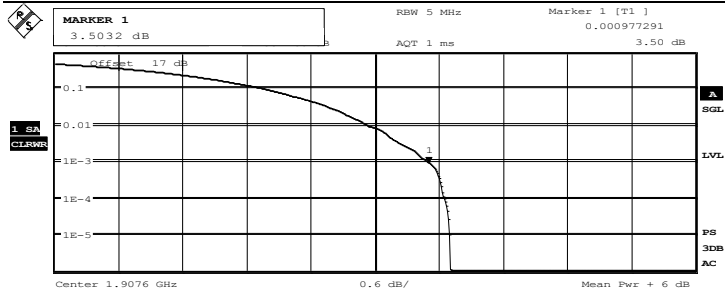
**Diagram 1: Channel 9262**



Trace 1	
Mean	23.53 dBm
Peak	27.36 dBm
Crest	3.83 dB
10 %	1.96 dB
1 %	3.03 dB
.1 %	3.59 dB
.01 %	3.81 dB

Date: 27.JAN.2017 14:49:50

**Diagram 2: Channel 9400**



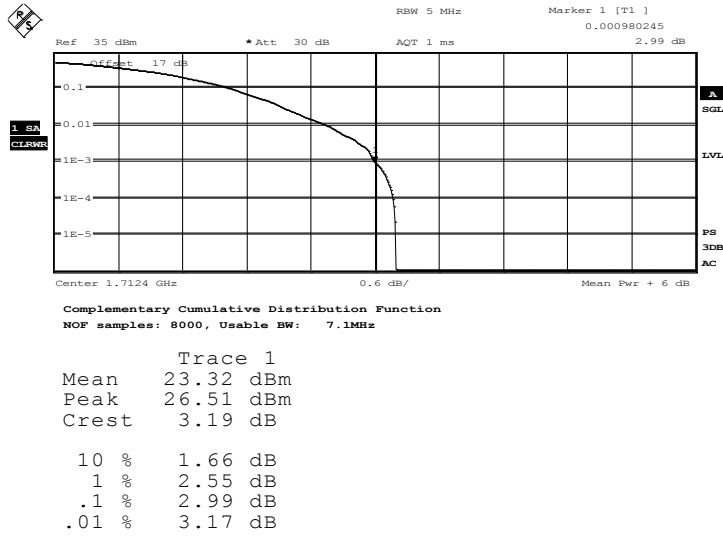
Complementary Cumulative Distribution Function  
NOF samples: 8000, Usable BW: 7.1MHz

Trace 1	
Mean	22.81 dBm
Peak	26.51 dBm
Crest	3.70 dB
10 %	1.98 dB
1 %	2.93 dB
.1 %	3.50 dB
.01 %	3.65 dB

Date: 27.JAN.2017 14:51:23

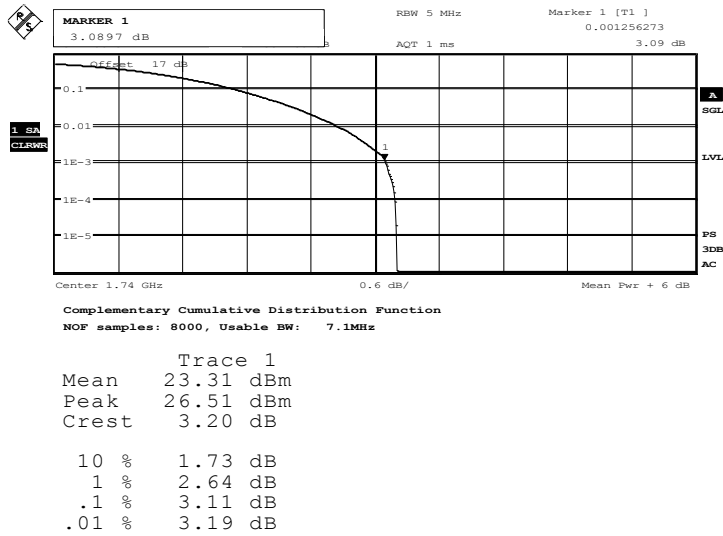
**Diagram 3: Channel 9538**

## 2.2. FDD Band IV transmitting mode



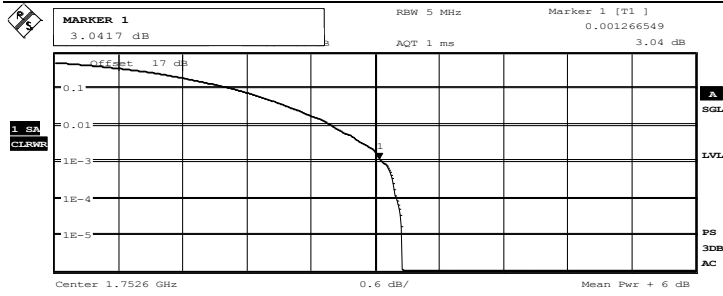
Date: 27.JAN.2017 14:41:02

**Diagram 4: Channel 1312**



Date: 27.JAN.2017 14:42:51

**Diagram 5: Channel 1450**



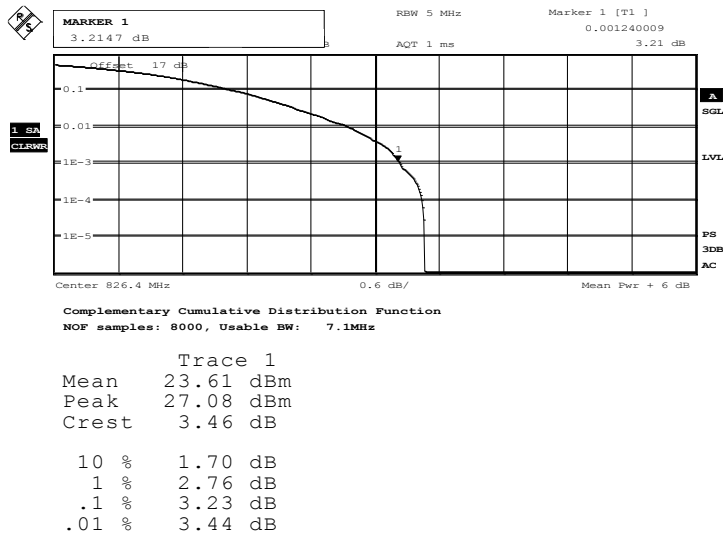
Complementary Cumulative Distribution Function  
NOF samples: 8000, Usable BW: 7.1MHz

Trace 1	
Mean	23.68 dBm
Peak	26.93 dBm
Crest	3.25 dB
10 %	1.69 dB
1 %	2.60 dB
.1 %	3.07 dB
.01 %	3.20 dB

Date: 27.JAN.2017 14:44:39

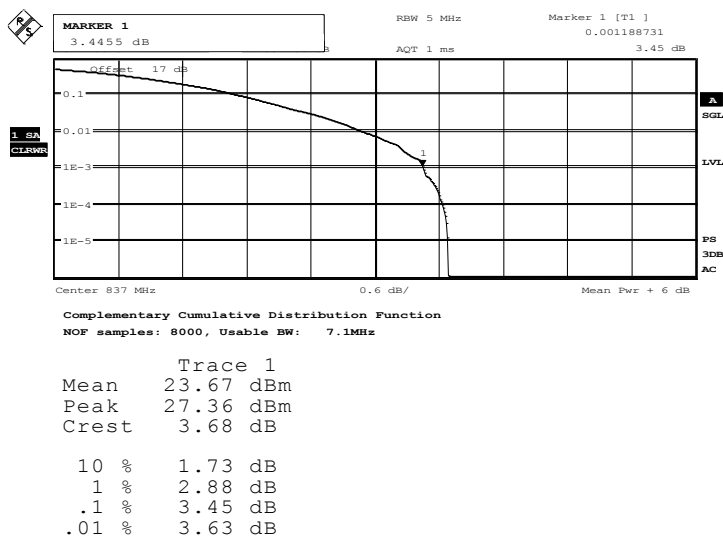
## Diagram 6: Channel 1513

### 2.3. FDD Band V transmitting mode



Date: 27.JAN.2017 14:34:28

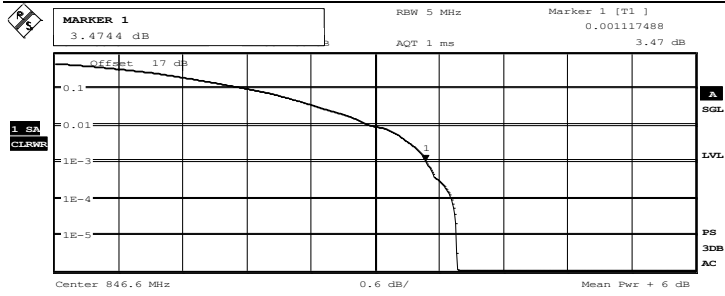
**Diagram 7: Channel 4132**



Date: 27.JAN.2017 14:37:07

**Diagram 8: Channel 4185**





Complementary Cumulative Distribution Function  
NOF samples: 8000, Usable BW: 7.1MHz

Trace 1	
Mean	23.80 dBm
Peak	27.57 dBm
Crest	3.76 dB
10 %	1.84 dB
1 %	2.97 dB
.1 %	3.48 dB
.01 %	3.71 dB

Date: 27.JAN.2017 14:38:38

## Diagram 9: Channel 4233

### 3. Radiated emission measurements

#### 3.1. Magnetic field emission measurements §15.209 (FDD Band II transmitting mode)

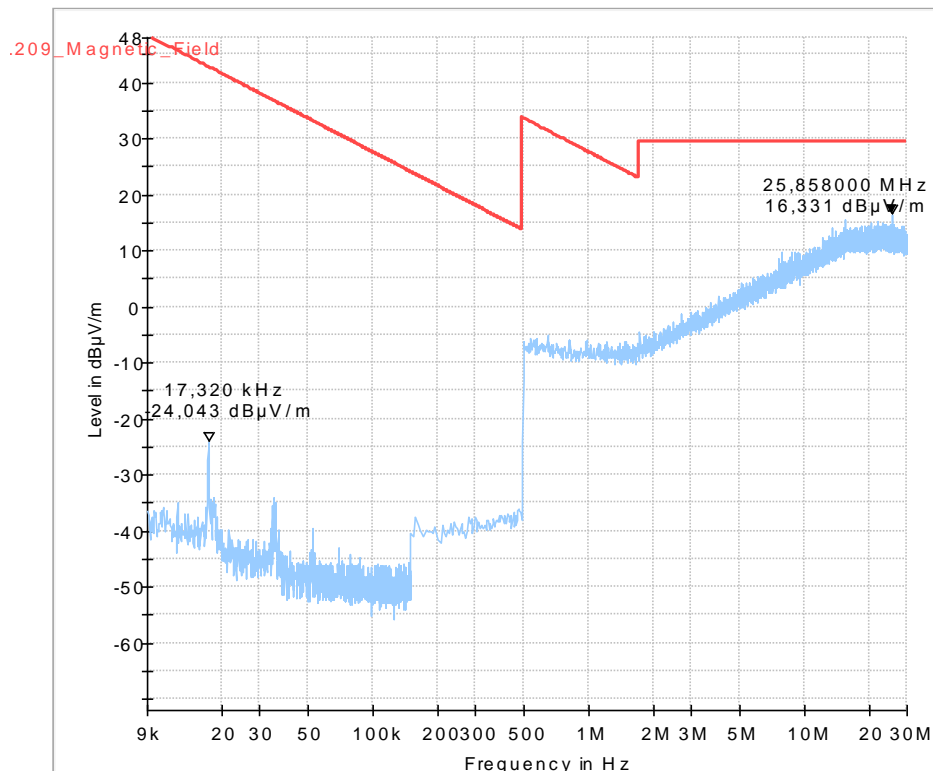
#### 2.20a\_RSE\_R\_Ch9262\_RMC

##### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical date:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	SLo
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	UMTS II Channel 9262
Comment 2:	EUT laying

##### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



## 2.20b\_RSE\_R\_Ch9262\_RMC

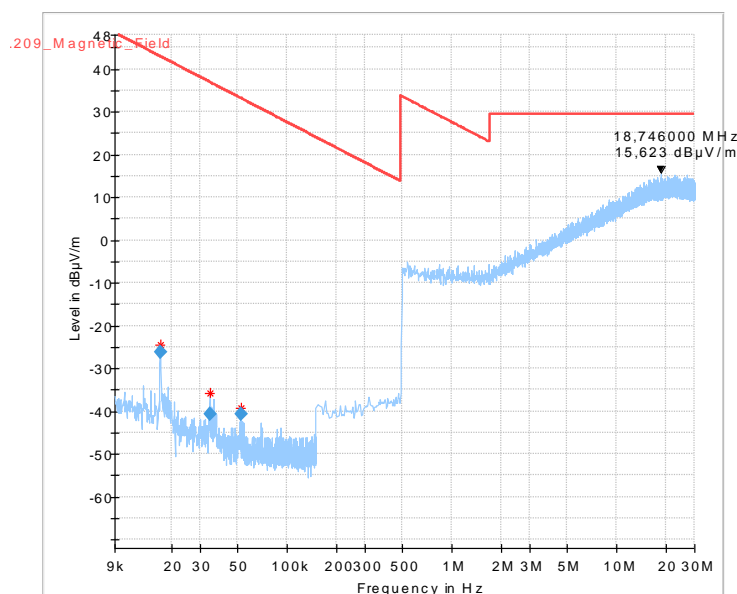
### Common Information

Test Description: Magnetic Field Strength Measurement related to 30/300 m distance  
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance  
 Version of testsoftware: EMC32 V9.25.0  
 Distance correction: used accord. table, pls. see test report  
 Technical date: Please see page 2 for detailed data of measurement setup  
 Rec. antenna (pre-scan): height 1.00m, parallel and 90° to EUT polarisation  
 Used filter: bypass  
 Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator: Klv  
 Operating conditions: TX-on  
 Power during tests: 12V DC  
 Comment 1: UMTS II Channel 9262  
 Comment 2: EUT standing

### EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG  
 EUT: V1231-0  
 -----  
 HW version: V1231-0\_Ver.1  
 SW version: MPSS.TH.2.0.2-00256  
 Serial number: 004402580040446  
 Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables  
 Power Supply: 12VDC  
 Comments: -



### Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas. Time (ms)	Bandwid th (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Corr. (dB)
0.017080	-26.33	42.95	69.28	1000.0	0.200	100.0	V	193.0	-58.7
0.033960	-40.63	36.98	77.61	1000.0	0.200	100.0	V	39.0	-59.5
0.052920	-40.55	33.13	73.68	1000.0	0.200	100.0	V	219.0	-59.7

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

Frequency (MHz)	Comment
0.017080	06:46:32 - 06.04.2017
0.033960	06:57:39 - 06.04.2017
0.052920	06:52:04 - 06.04.2017

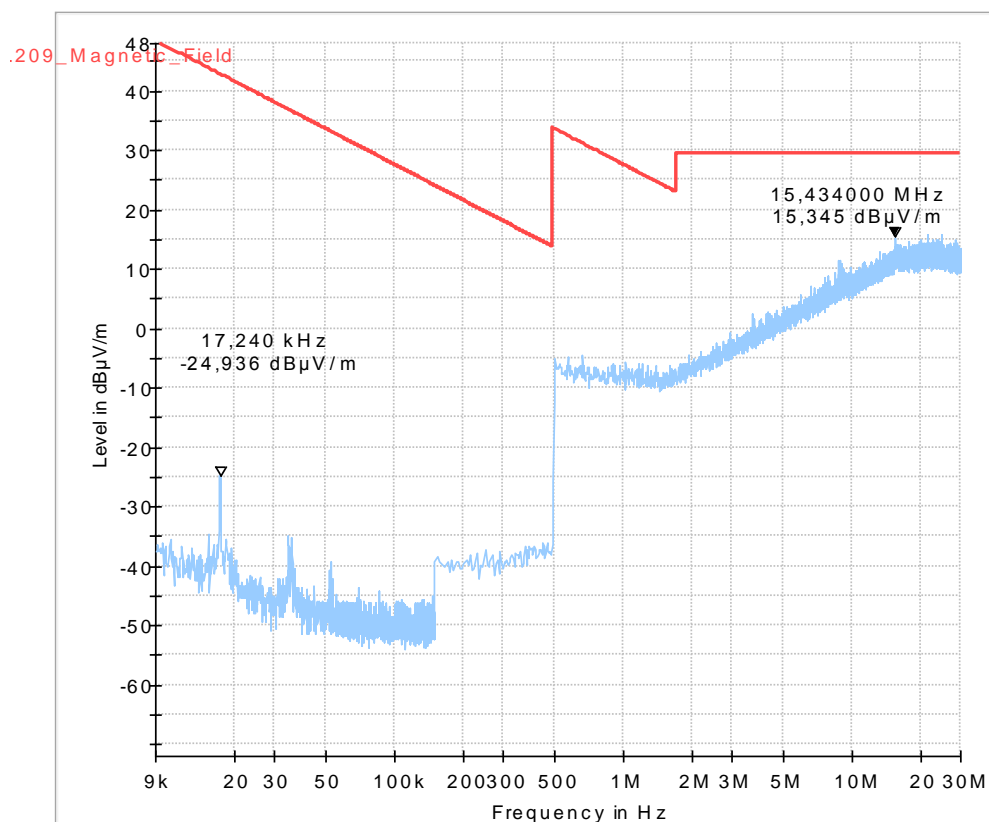
## 2.21a\_RSE\_R\_Ch9400\_RMC

### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical date:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	SLo
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	UMTS II Channel 9400
Comment 2:	EUT laying

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



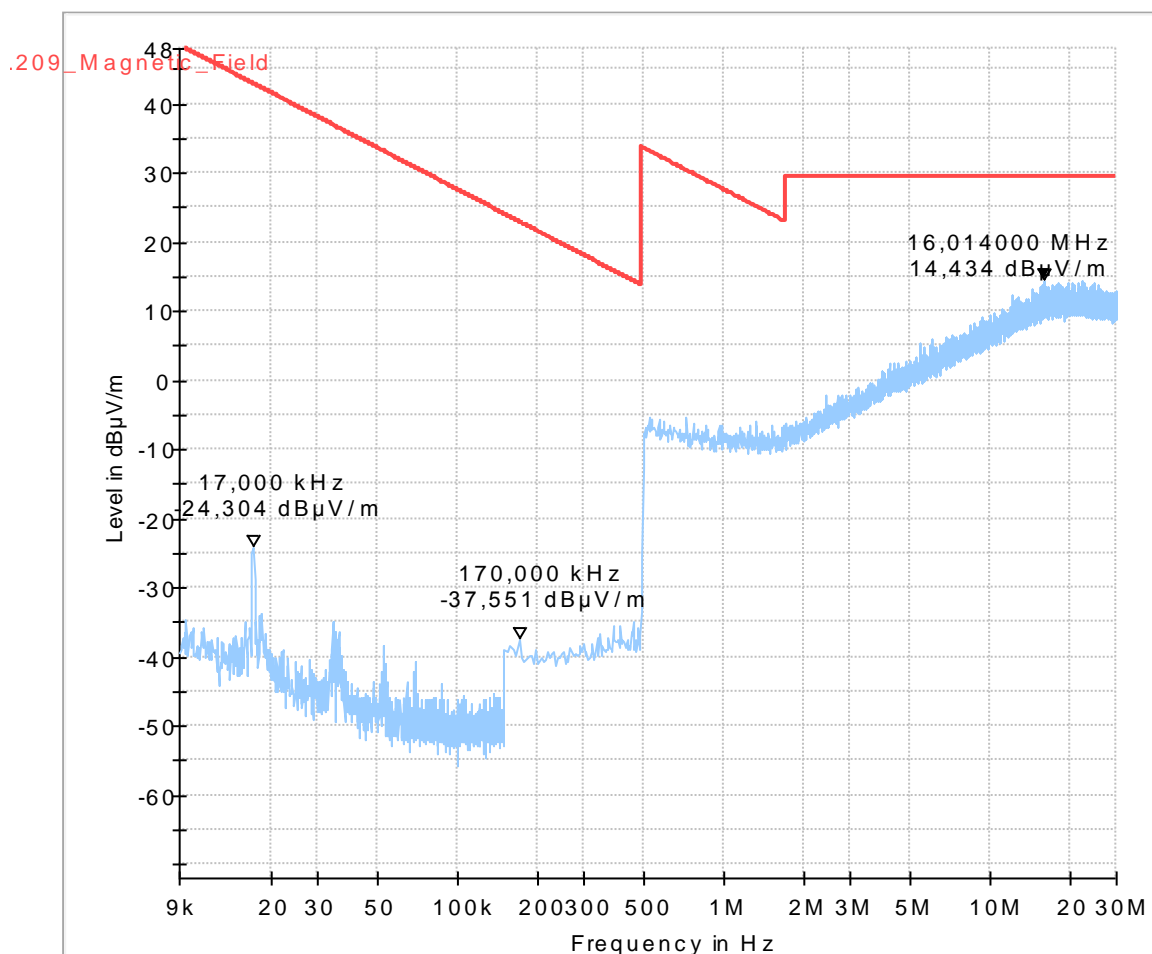
## 2.21b\_RSE\_R\_Ch9400\_RMC

### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical date:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	RIs
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	UMTS II Channel 9400
Comment 2:	EUT standing

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



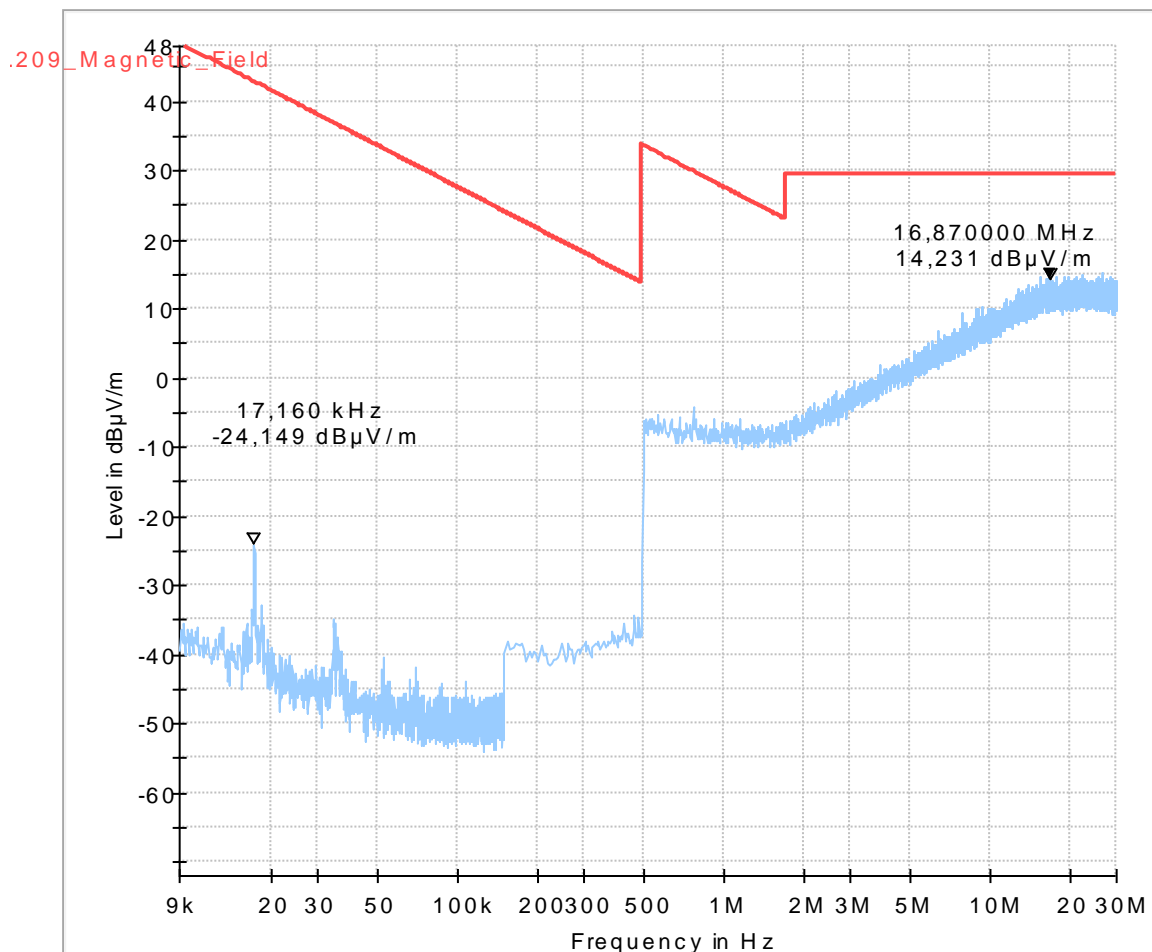
## 2.22a\_RSE\_R\_Ch9538\_RMC

### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical date:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	SLo
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	UMTS II Channel 9538
Comment 2:	EUT laying

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



## 2.22b\_RSE\_R\_Ch9538\_RMC

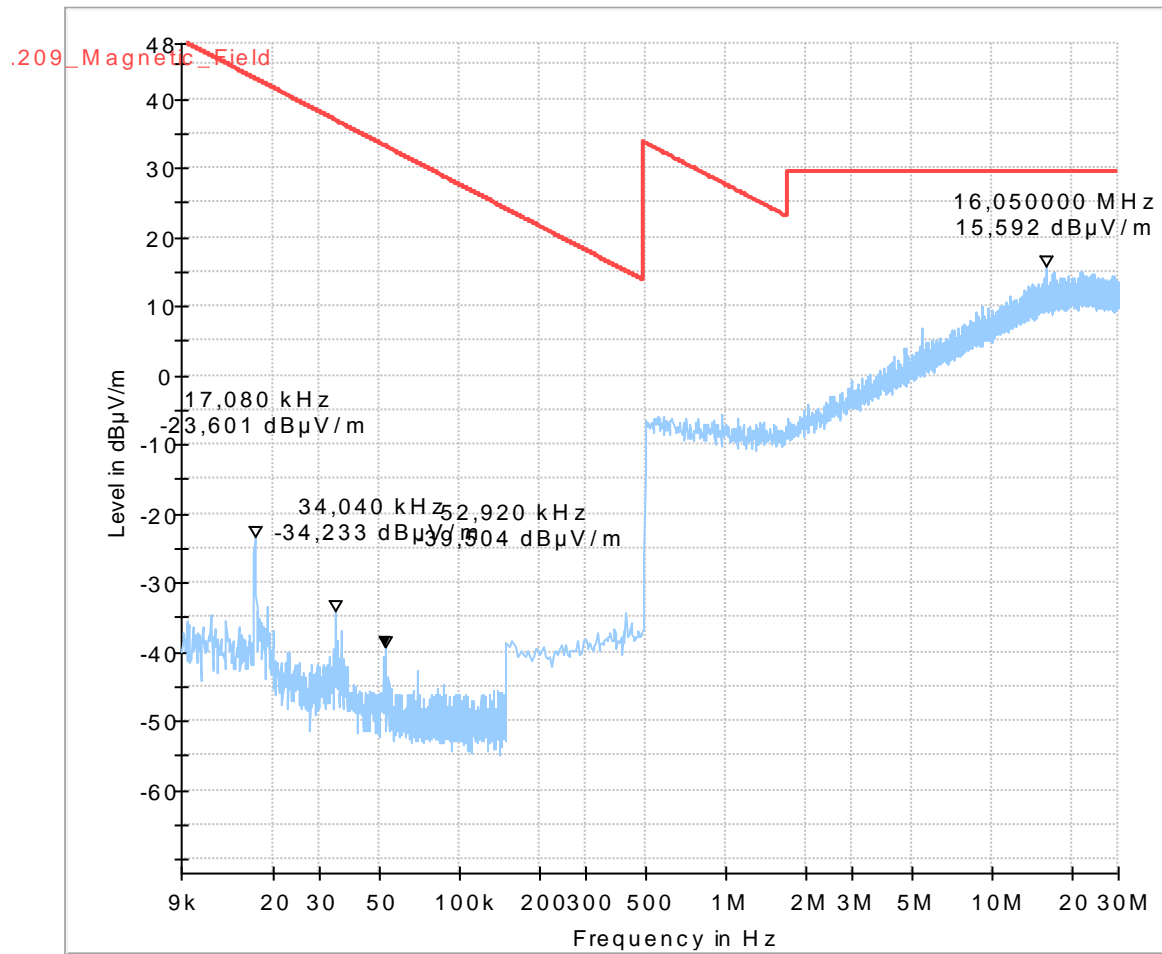
### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical date:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator:	SLO
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	UMTS II Channel 9538
Comment 2:	EUT standing

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-





### 3.2. Magnetic field emission measurements §15.209 (FDD Band IV transmitting mode)

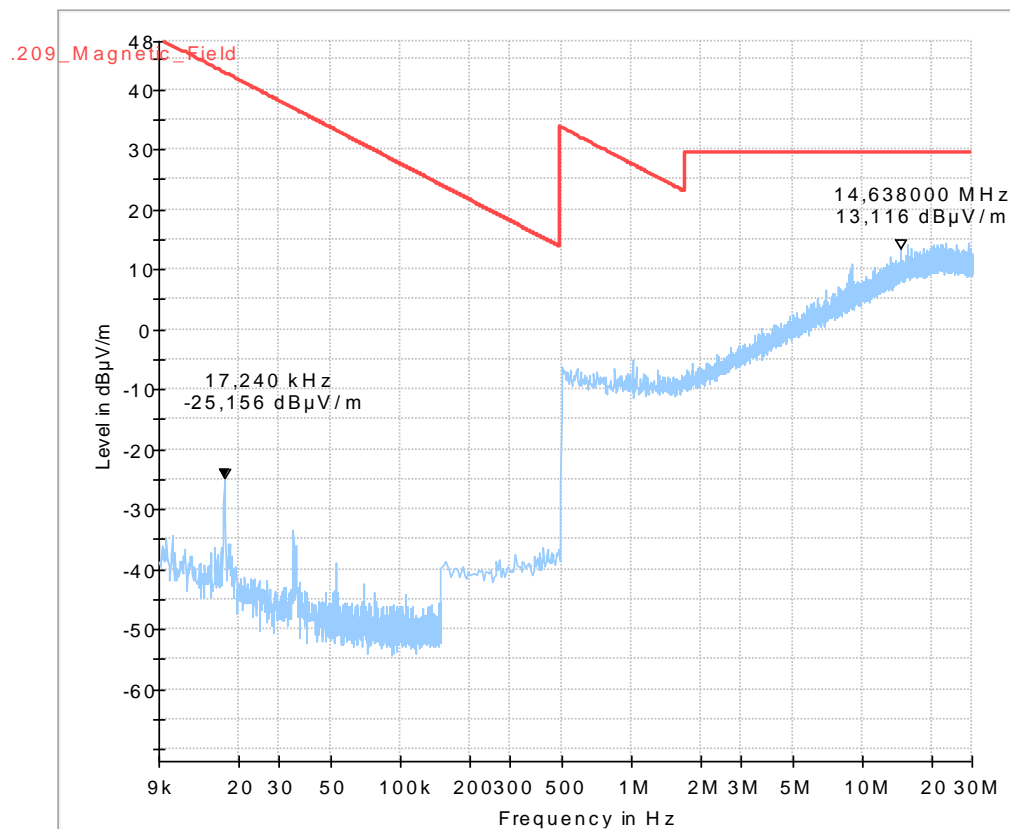
#### 2.40a\_RSE\_R\_Ch1312\_RMC

##### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical date:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	SLo
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	UMTS IV Channel 1312
Comment 2:	EUT laying

##### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



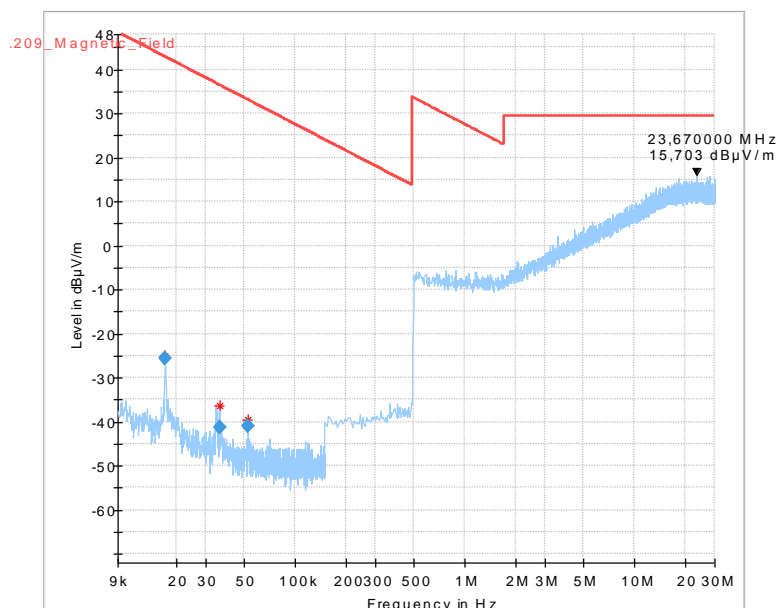
## 2.40b\_RSE\_R\_Ch1312\_RMC

### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical date:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	Klv
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	UMTS IV Channel 1312
Comment 2:	EUT standing

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



### Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017080	-25.49	42.95	68.44	1000.0	0.200	100.0	V	185.0	-58.7
0.035720	-41.17	36.54	77.71	1000.0	0.200	100.0	V	217.0	-59.5
0.052840	-40.85	33.14	73.99	1000.0	0.200	100.0	V	147.0	-59.7

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

Frequency (MHz)	Comment
0.017080	04:32:13 - 06.04.2017
0.035720	04:25:46 - 06.04.2017

0.052840 | 04:20:23 - 06.04.2017

## Diagram No. 2.41\_RSE\_R\_Ch1450\_RMC

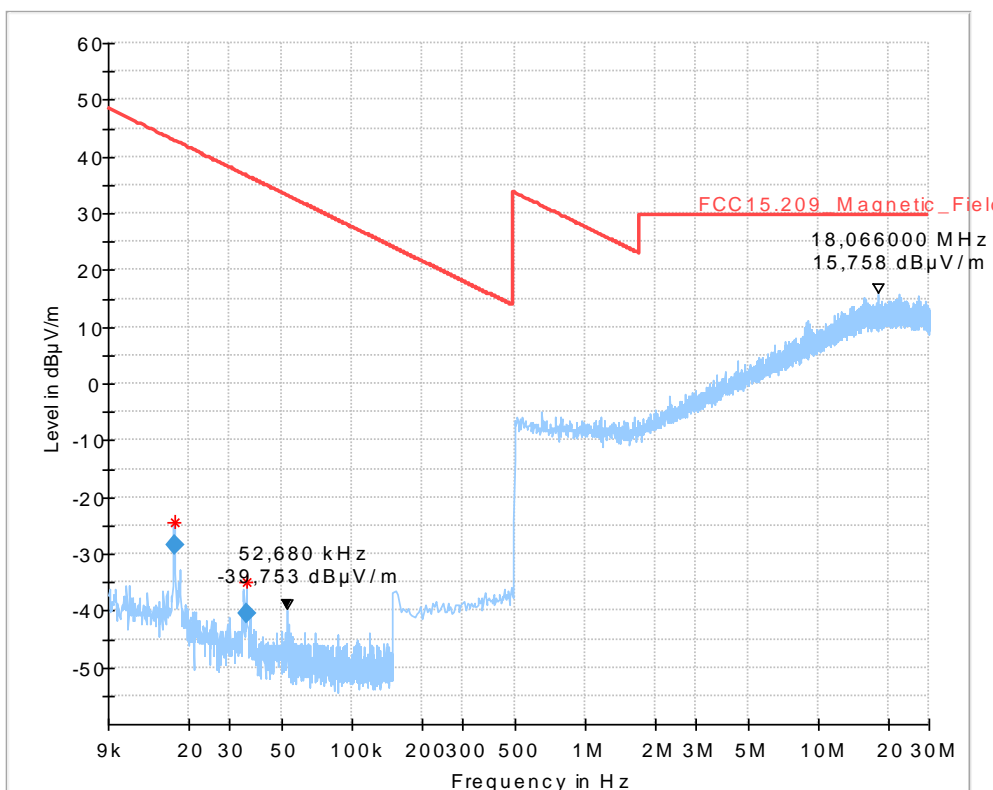
Test description:	Date: 04.04.2017 Page 1 of 1
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
	FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator:	Klv
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	UMTS FDD IV, Channel 1450
Comment 2:	EUT laying

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



## Diagram No. 2.41b\_RSE\_R\_Ch1450\_RMC

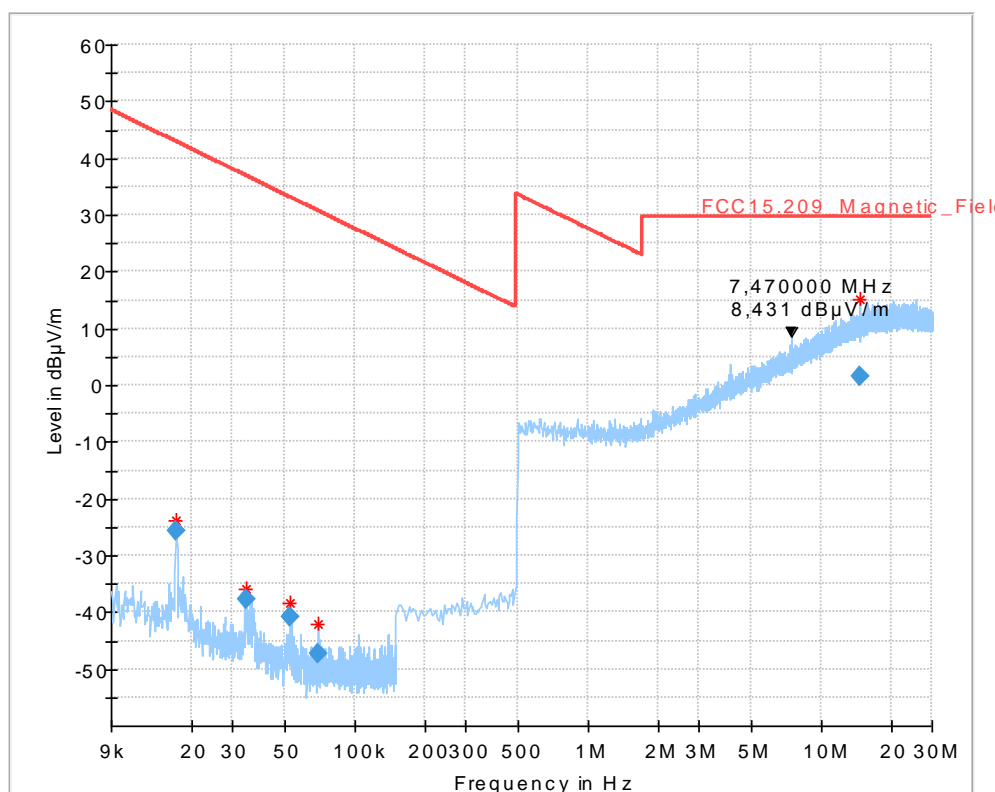
Test description:	Date: 06.04.2017 Page 1 of 2
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
	FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator:	Klv
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	UMTS FDD IV, Channel 1450
Comment 2:	EUT standing

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC

Full Spectrum



### Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017080	-25.70	42.95	68.65	1000.0	0.200	100.0	V	34.0	-58.7
0.034200	-37.67	36.92	74.59	1000.0	0.200	100.0	V	271.0	-59.5
0.052840	-40.85	33.14	73.99	1000.0	0.200	100.0	V	159.0	-59.7
0.069880	-47.29	30.71	78.01	1000.0	0.200	100.0	V	188.0	-59.8
14.758000	1.56	29.54	27.98	1000.0	10.000	100.0	H	263.0	-0.6

## Diagram No. 2.42\_RSE\_R\_Ch1513\_RMC

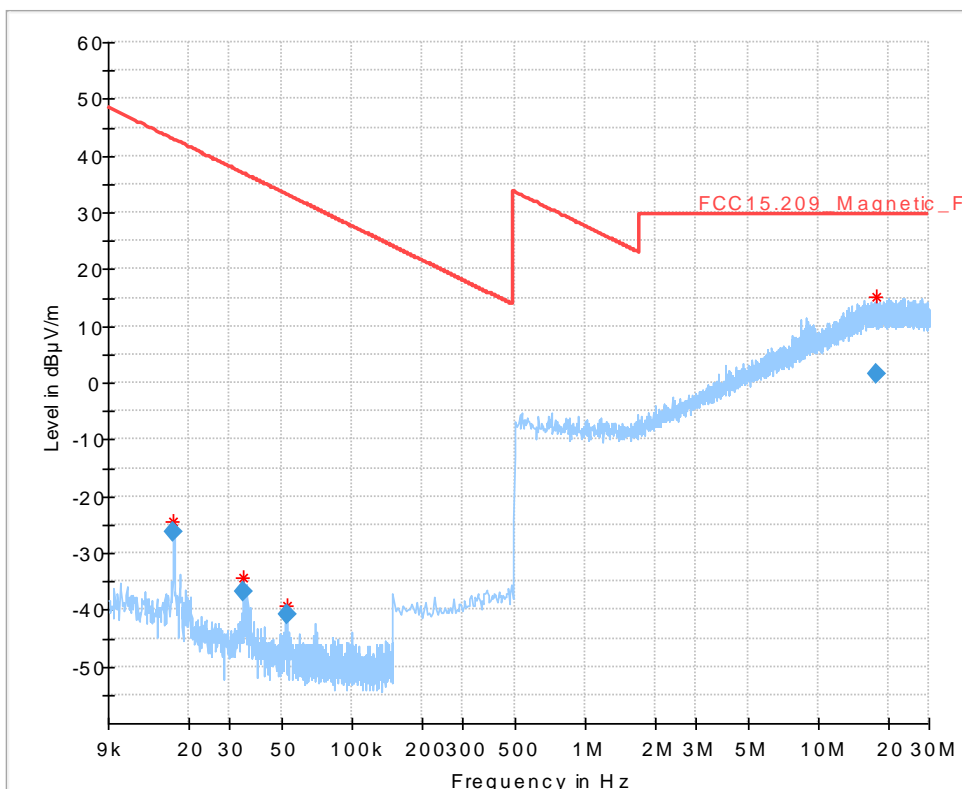
Date:	05.04.2017	Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V9.25.0	
Distance correction:	used accord. table, pls. see test report	
Technical Data:	Please see page 2 for detailed data of measurement setup	
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation	
Used filter:	bypass	
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4	

Operator:	Klv
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	UMTS FDD IV, Channel 1513
Comment 2:	EUT laying

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC

Full Spectrum



### Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017160	-26.23	42.91	69.13	1000.0	0.200	100.0	V	4.0	-58.7
0.034360	-36.93	36.88	73.80	1000.0	0.200	100.0	V	194.0	-59.5
0.052760	-40.85	33.15	74.01	1000.0	0.200	100.0	V	-1.0	-59.7
17.910000	1.56	29.54	27.98	1000.0	10.000	100.0	H	267.0	0.5

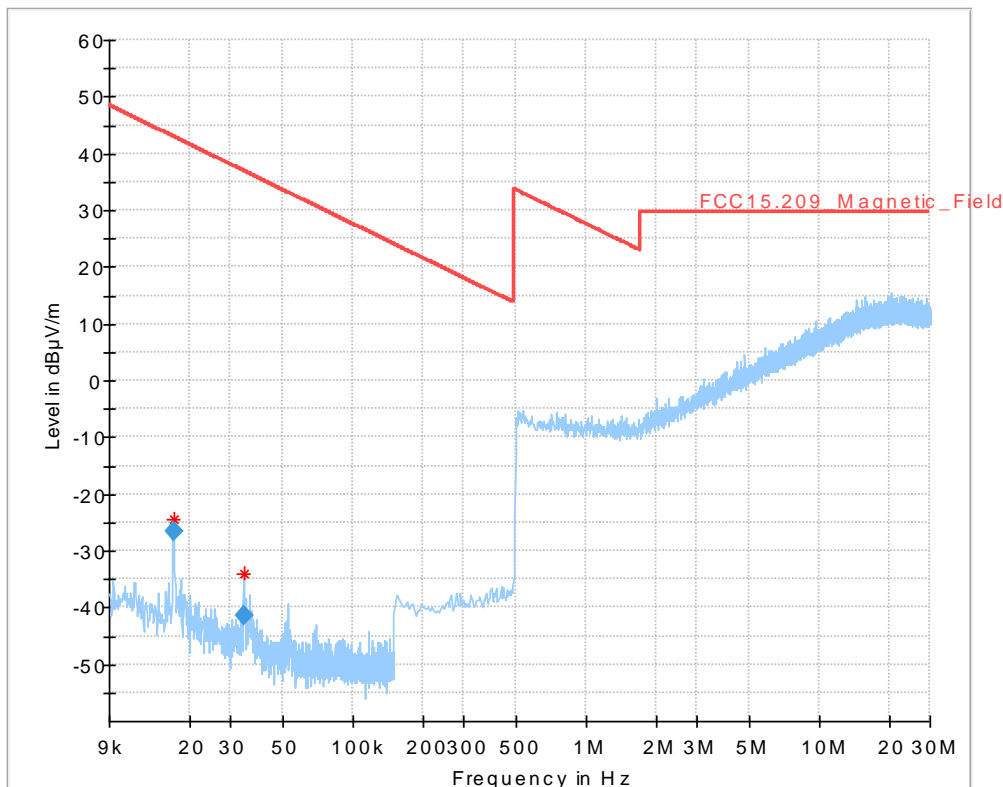
## Diagram No. 2.42b\_RSE\_R\_Ch1513\_RMC

Date:	06.04.2017 Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	Klv
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	UMTS FDD IV, Channel 1513
Comment 2:	EUT standing

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



### Final Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth h (kHz)	Height t (cm)	Pol	Azimuth h (deg)	Corr. (dB)
0.017000	-26.60	42.99	69.59	1000.0	0.200	100.0	V	92.0	-58.7
0.033960	-41.40	36.98	78.38	1000.0	0.200	100.0	V	141.0	-59.5

### 3.3. Magnetic field emission measurements §15.209 (FDD Band V transmitting mode)

#### Diagram No. 2.50a\_RSE\_R\_Ch4132\_RMC

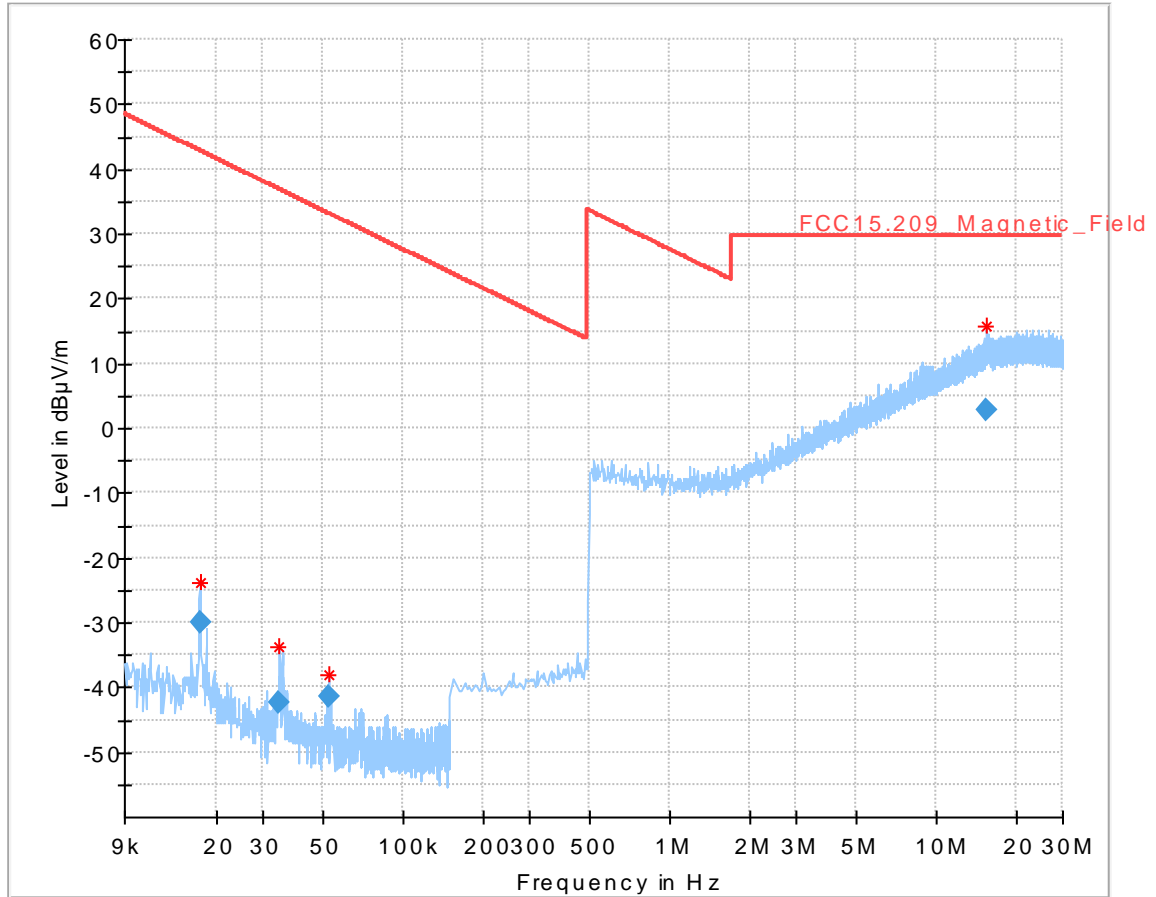
Date:	05.04.2017	Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V9.25.0	
Distance correction:	used accord. table, pls. see test report	
Technical Data:	Please see page 2 for detailed data of measurement setup	
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation	
Used filter:	bypass	
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4	

Operator:	Klv
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	UMTS FDD V, Channel 4132
Comment 2:	EUT laying

#### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final\_Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017240	-30.13	42.87	72.99	1000.0	0.200	100.0	V	42.0	-58.7
0.034440	-42.50	36.86	79.35	1000.0	0.200	100.0	V	146.0	-59.5
0.052680	-41.30	33.17	74.47	1000.0	0.200	100.0	V	-8.0	-59.7
15.634000	2.67	29.54	26.87	1000.0	10.000	100.0	V	33.0	-0.1

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

Frequency (MHz)	Comment
0.017240	06:18:45 - 05.04.2017
0.034440	06:24:38 - 05.04.2017
0.052680	06:12:21 - 05.04.2017
15.634000	06:31:16 - 05.04.2017



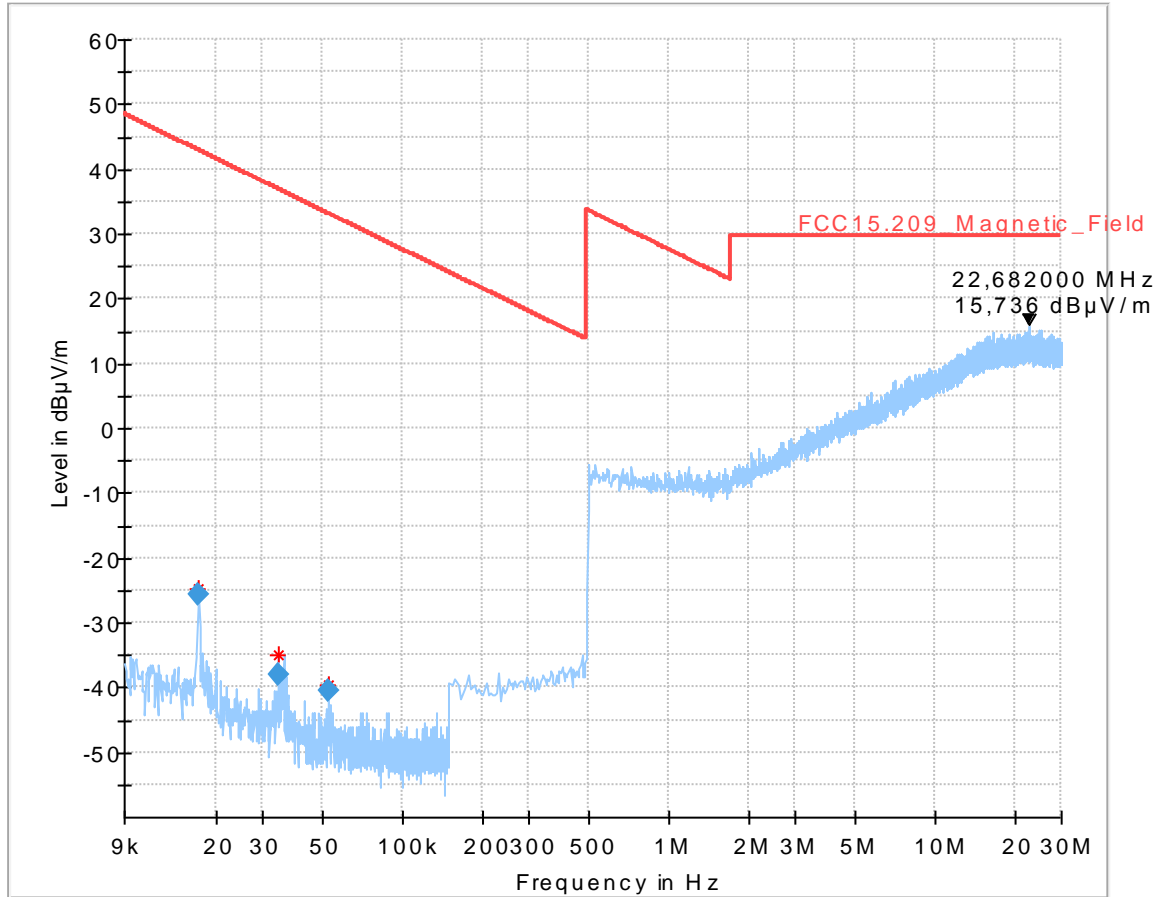
**Diagram No. 2.50b\_RSE\_R\_Ch4132\_RMC**

Date:	06.04.2017	Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V9.25.0	
Distance correction:	used accord. table, pls. see test report	
Technical Data:	Please see page 2 for detailed data of measurement setup	
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation	
Used filter:	bypass	
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4	
Operator:	Klv	
Operating conditions:	TX-on	
Power during tests:	12V DC	
Comment 1:	UMTS FDD V, Channel 4132	
Comment 2:	EUT standing	

**EUT Information**

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final\_Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017080	-25.54	42.95	68.49	1000.0	0.200	100.0	V	122.0	-58.7
0.034200	-38.00	36.92	74.92	1000.0	0.200	100.0	V	-2.0	-59.5
0.052840	-40.61	33.14	73.75	1000.0	0.200	100.0	V	299.0	-59.7

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

Frequency (MHz)	Comment
0.017080	03:35:03 - 06.04.2017
0.034200	03:41:03 - 06.04.2017
0.052840	03:47:12 - 06.04.2017

## Diagram No. 2.51a\_RSE\_R\_Ch4183\_RMC

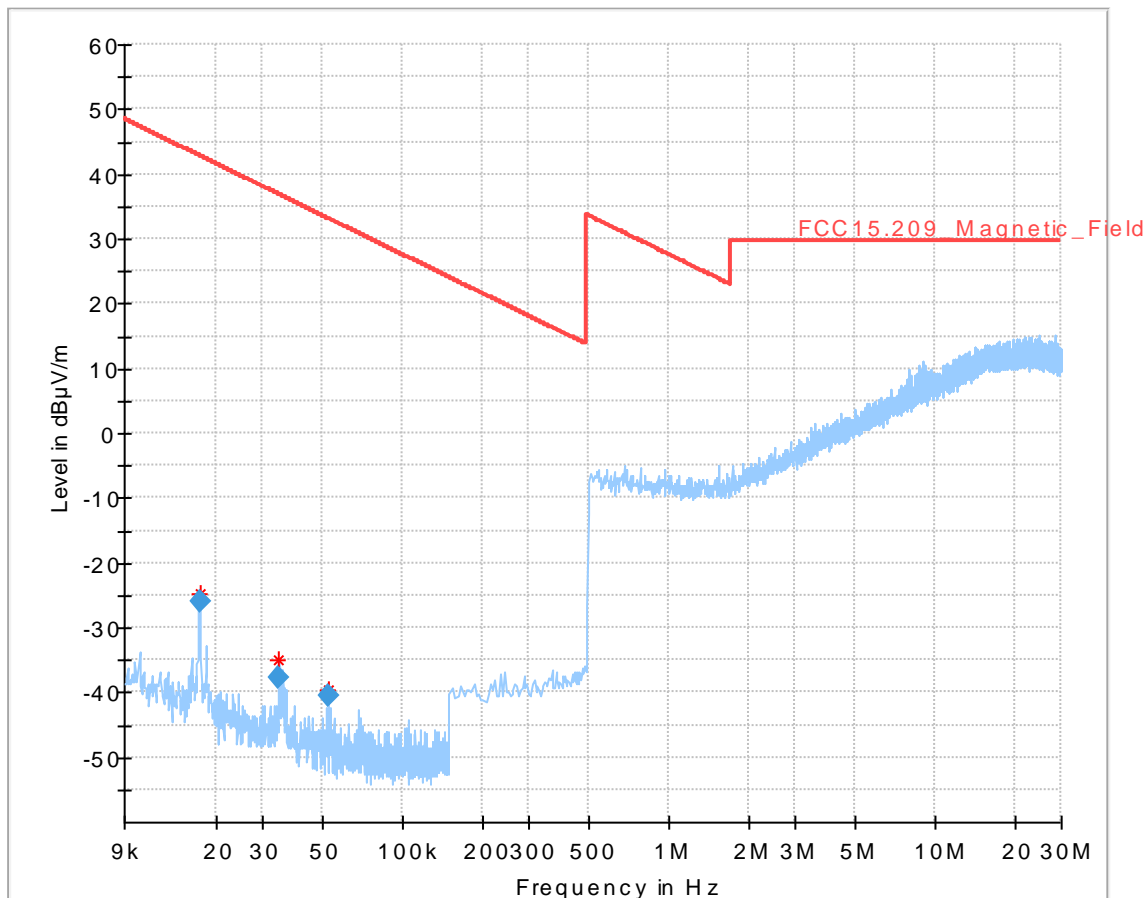
Date:	05.04.2017	Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V9.25.0	
Distance correction:	used accord. table, pls. see test report	
Technical Data:	Please see page 2 for detailed data of measurement setup	
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation	
Used filter:	bypass	
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4	

Operator:	Klv
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	UMTS FDD IV, Channel 1513
Comment 2:	EUT laying

### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final\_Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017240	-25.98	42.87	68.84	1000.0	0.200	100.0	V	191.0	-58.7
0.034440	-37.82	36.86	74.67	1000.0	0.200	100.0	V	279.0	-59.5
0.052760	-40.48	33.15	73.64	1000.0	0.200	100.0	V	23.0	-59.7

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

Frequency (MHz)	Comment
0.017240	07:24:45 - 05.04.2017
0.034440	07:19:32 - 05.04.2017
0.052760	07:13:59 - 05.04.2017

## Diagram No. 2.51b\_RSE\_R\_Ch4183\_RMC

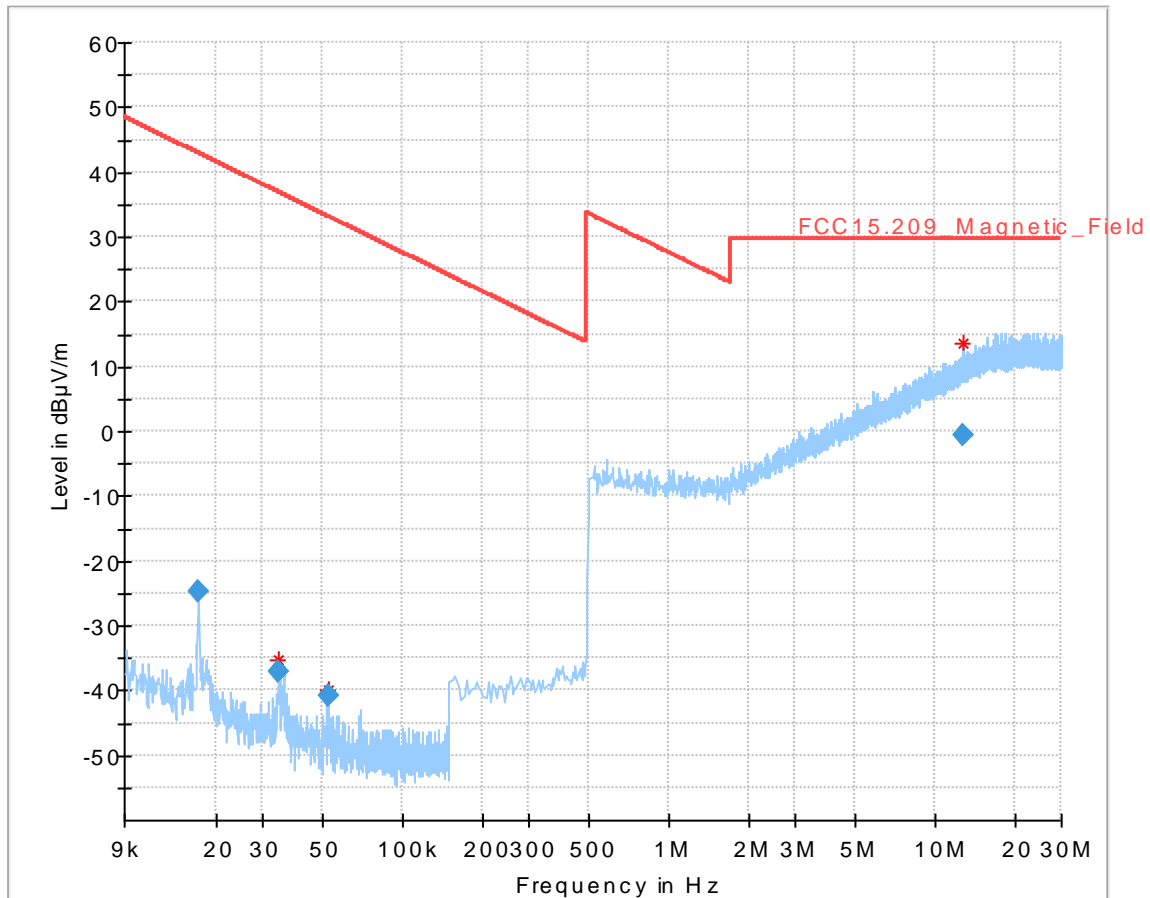
Date:	06.04.2017	Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V9.25.0	
Distance correction:	used accord. table, pls. see test report	
Technical Data:	Please see page 2 for detailed data of measurement setup	
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation	
Used filter:	bypass	
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4	

Operator:	Klv
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	UMTS FDD V, Channel 4183
Comment 2:	EUT standing

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final\_Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017080	-24.87	42.95	67.82	1000.0	0.200	100.0	V	224.0	-58.7
0.034120	-37.09	36.94	74.03	1000.0	0.200	100.0	V	253.0	-59.5
0.052840	-40.91	33.14	74.05	1000.0	0.200	100.0	V	331.0	-59.7
12.894000	-0.50	29.54	30.04	1000.0	10.000	100.0	H	54.0	-2.0

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

Frequency (MHz)	Comment
0.017080	02:49:04 - 06.04.2017
0.034120	02:54:33 - 06.04.2017
0.052840	03:00:38 - 06.04.2017
12.894000	02:43:14 - 06.04.2017

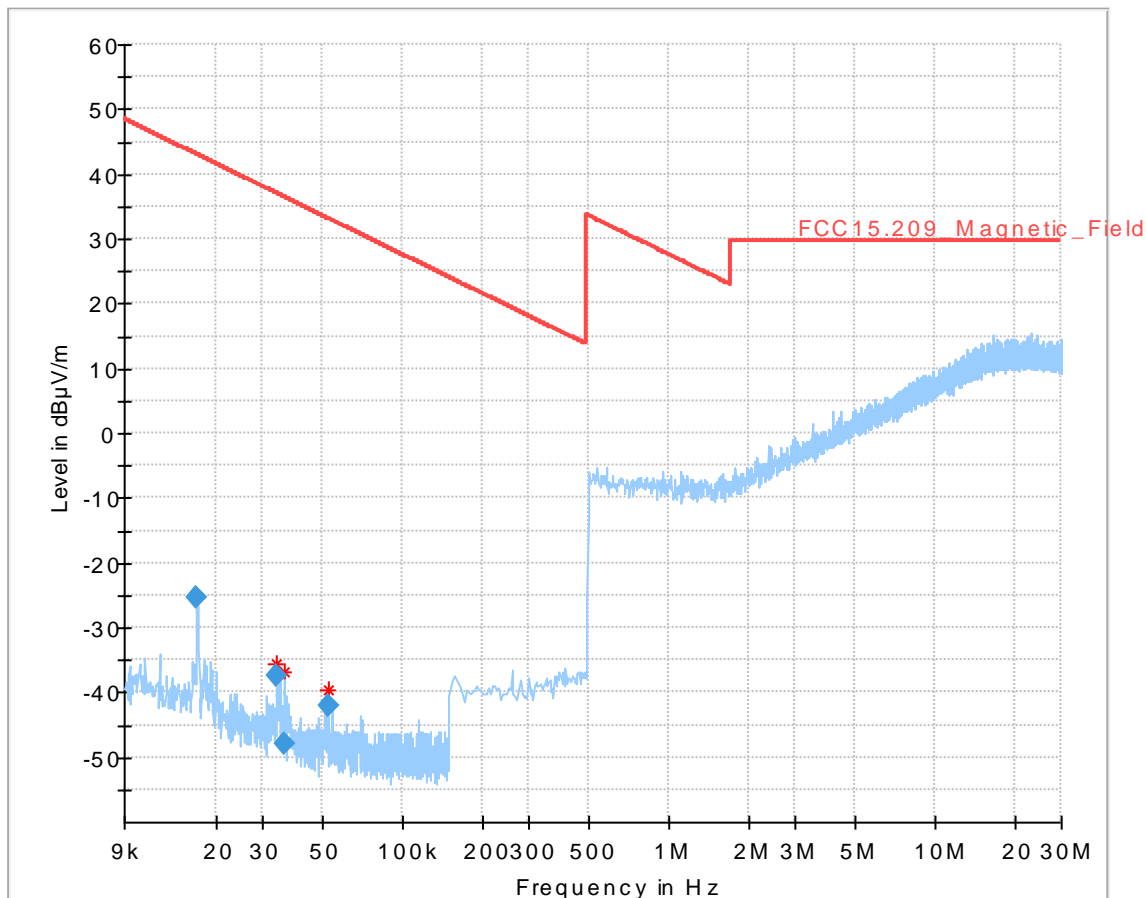
**Diagram No. 2.52a\_RSE\_R\_Ch4233\_RMC**

Date:	06.04.2017	Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V9.25.0	
Distance correction:	used accord. table, pls. see test report	
Technical Data:	Please see page 2 for detailed data of measurement setup	
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation	
Used filter:	bypass	
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4	
Operator:	Klv	
Operating conditions:	TX-on	
Power during tests:	12V DC	
Comment 1:	UMTS FDD V, Channel 4233	
Comment 2:	EUT laying	

**EUT Information**

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final\_Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.016920	-25.23	43.03	68.25	1000.0	0.200	100.0	V	127.0	-58.7
0.033880	-37.44	37.00	74.44	1000.0	0.200	100.0	V	224.0	-59.5
0.036120	-47.86	36.44	84.30	1000.0	0.200	100.0	V	164.0	-59.5
0.053080	-41.97	33.10	75.07	1000.0	0.200	100.0	V	35.0	-59.7

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

Frequency (MHz)	Comment
0.016920	00:44:03 - 06.04.2017
0.033880	00:55:32 - 06.04.2017
0.036120	01:00:41 - 06.04.2017
0.053080	00:50:35 - 06.04.2017



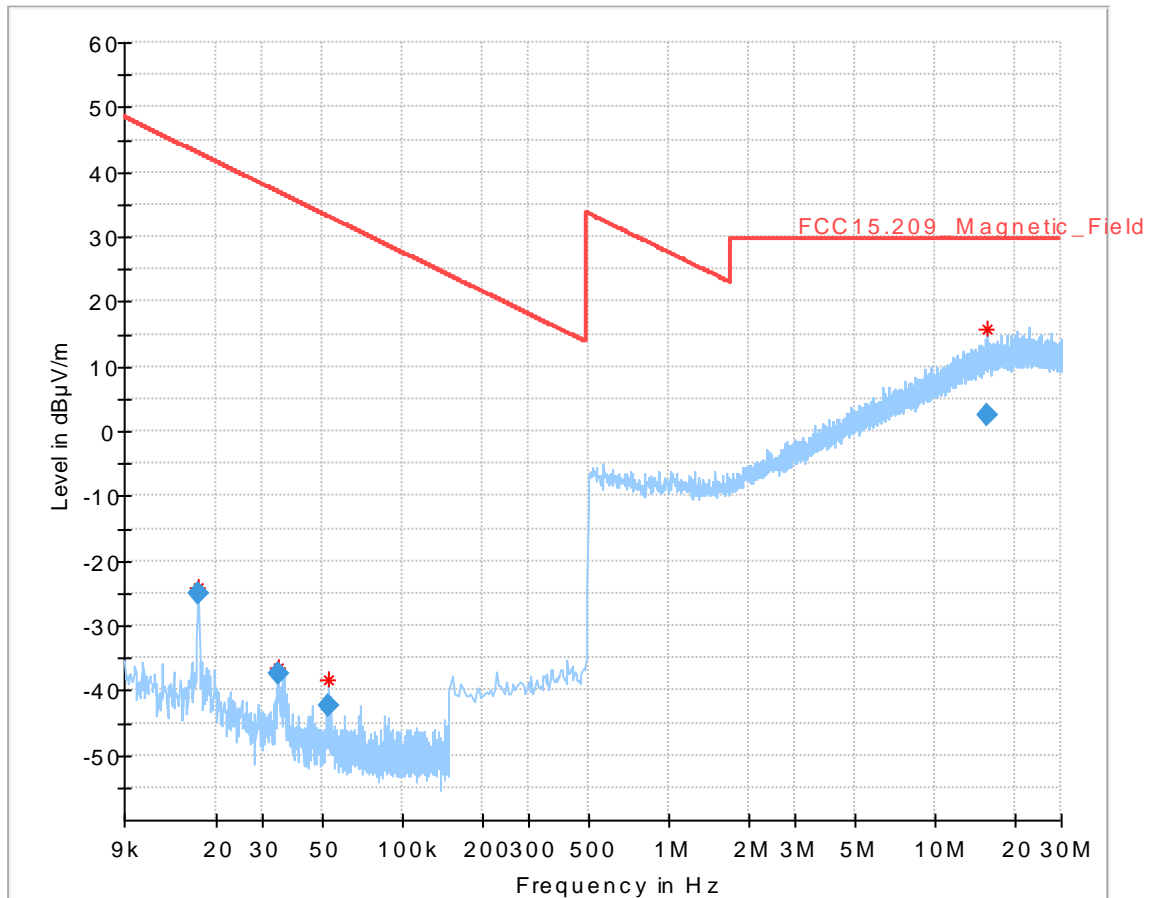
**Diagram No. 2.52b\_RSE\_R\_Ch4233\_RMC**

Date:	06.04.2017	Page 1 of 2
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V9.25.0	
Distance correction:	used accord. table, pls. see test report	
Technical Data:	Please see page 2 for detailed data of measurement setup	
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation	
Used filter:	bypass	
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4	
Operator:	Klv	
Operating conditions:	TX-on	
Power during tests:	12V DC	
Comment 1:	UMTS FDD V, Channel 4233	
Comment 2:	EUT standing	

**EUT Information**

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final\_Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017080	-25.15	42.95	68.10	1000.0	0.200	100.0	V	99.0	-58.7
0.034120	-37.31	36.94	74.25	1000.0	0.200	100.0	V	170.0	-59.5
0.052920	-42.33	33.13	75.46	1000.0	0.200	100.0	V	141.0	-59.7
15.806000	2.43	29.54	27.11	1000.0	10.000	100.0	V	125.0	0.1

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

Frequency (MHz)	Comment
0.017080	01:39:52 - 06.04.2017
0.034120	01:56:35 - 06.04.2017
0.052920	01:50:24 - 06.04.2017
15.806000	02:05:12 - 06.04.2017

### 3.4. Spurious emissions radiated (FDD Band II transmitting mode)

#### 8.20a\_RSE\_R\_Ch9262\_RMC

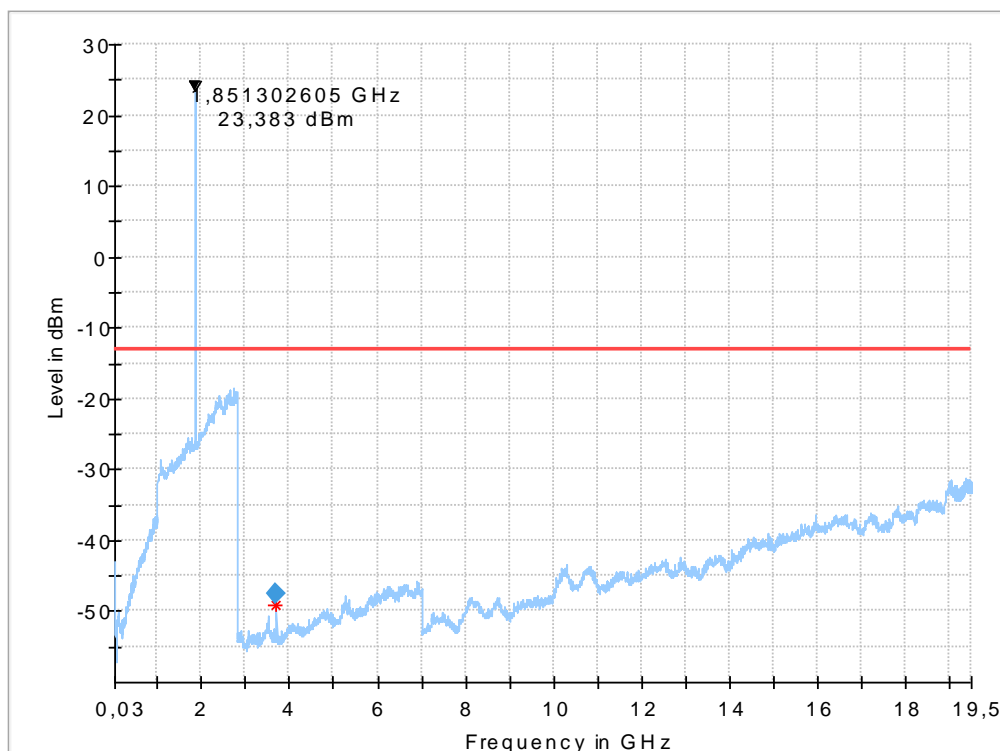
##### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9262 (fc = 1852.4MHz)
Environmental Conditions:	Humidity: 41%rH; Temperature: 20°C
Operator:	RIs
Comment:	Laying

##### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



##### Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3707.16933	-47.64	-13.00	34.64	10000.0	1000.000	H	-2.0	0.0	-94.9

## 8.20b\_RSE\_R\_Ch9262\_RMC

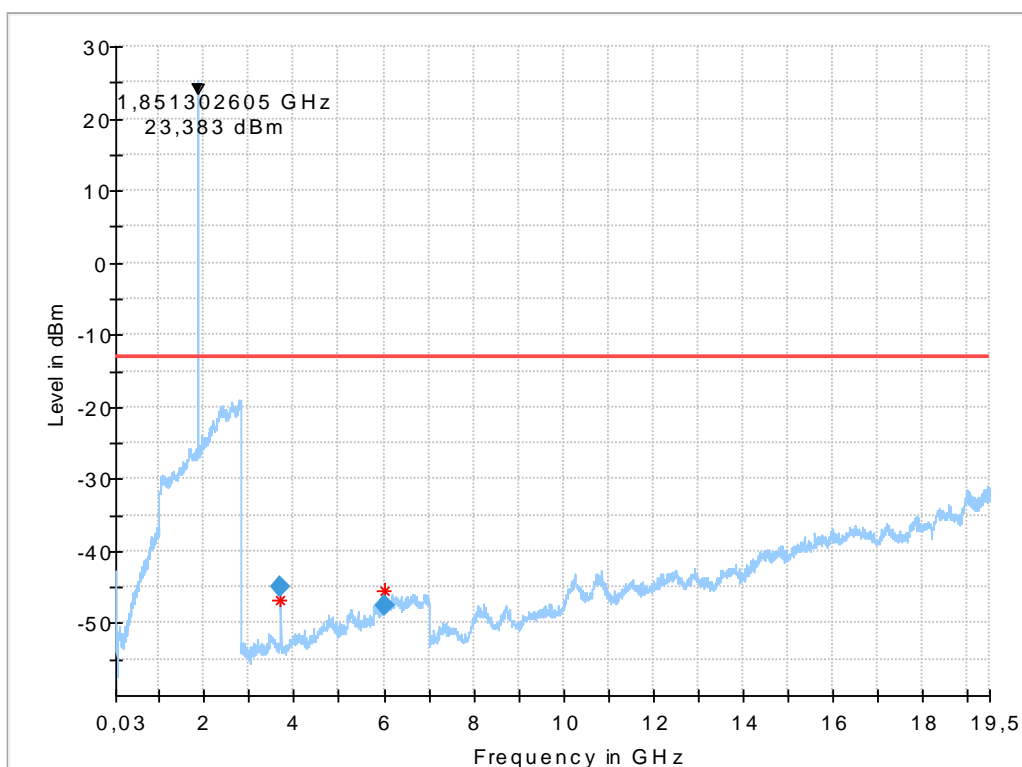
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9262 (fc = 1852.4MHz)
Environmental Conditions:	Humidity: 41%rH; Temperature: 20°C
Operator:	Klv
Comment:	EUT standing position

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



### Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3706.267535	-44.93	-13.00	31.93	10000.0	1000.000	H	70.0	0.0	-94.9
6009.744489	-47.43	-13.00	34.43	10000.0	1000.000	V	226.0	0.0	-87.9

## 8.21a\_RSE\_R\_Ch9400\_RMC

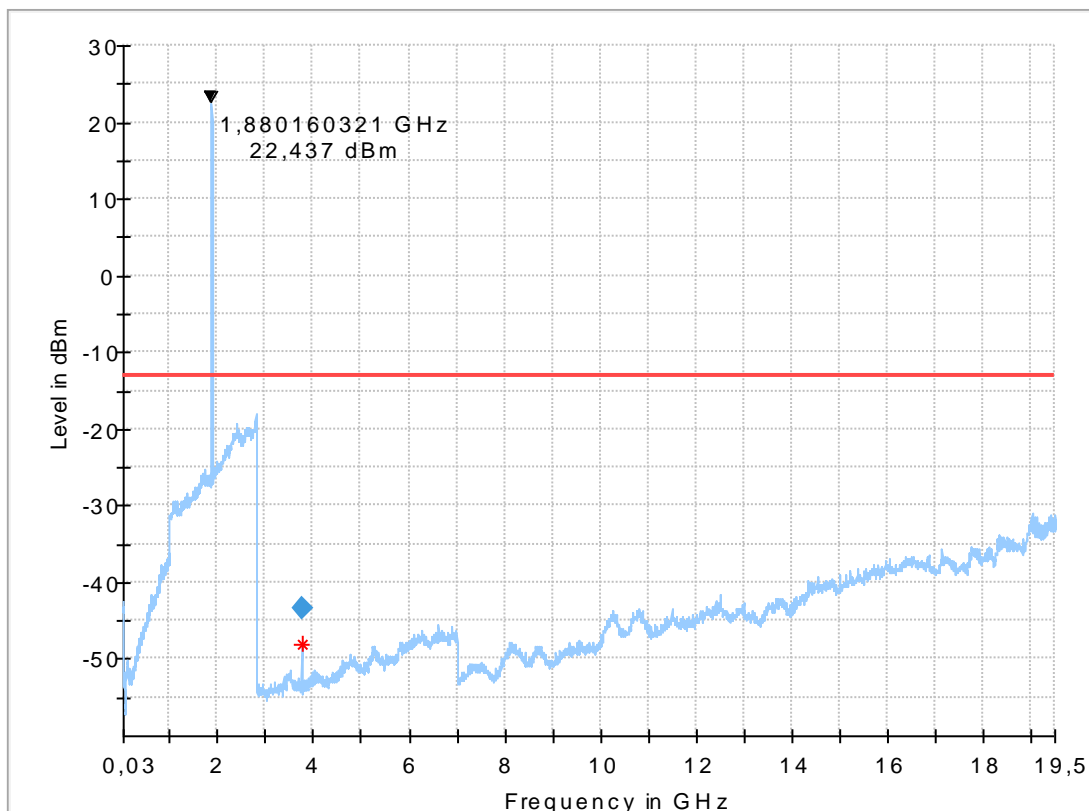
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9400 (fc = 1880.0MHz)
Environmental Conditions:	Humidity: 41%rH; Temperature: 20°C
Operator:	RIs
Comment:	Laying

### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



### Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3761.457916	-43.41	-13.00	30.41	10000.0	1000.000	V	-13.0	0.0	-95.1

## 8.21b\_RSE\_R\_Ch9400\_RMC

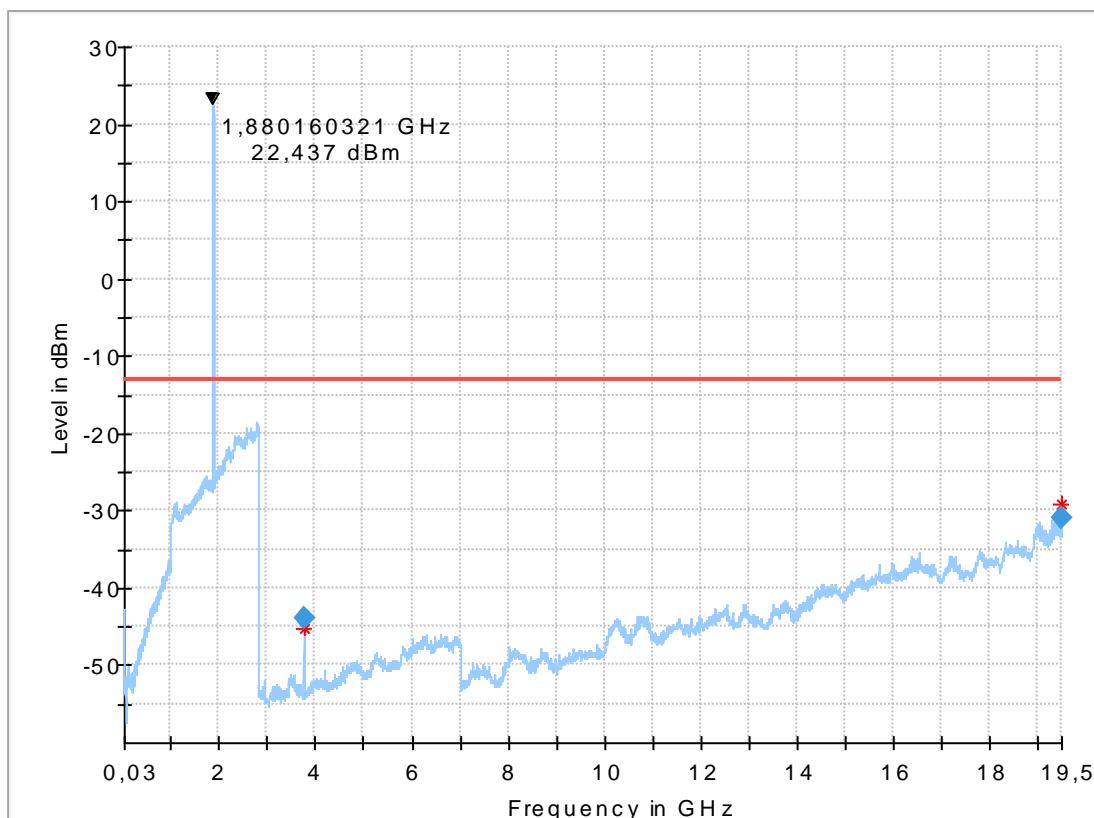
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9400 (fc = 1880.0MHz)
Environmental Conditions:	Humidity: 41%rH; Temperature: 20°C
Operator:	Klv
Comment:	EUT standing position

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



### Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3761.457916	-43.97	-13.00	30.97	10000.0	1000.000	H	316.0	0.0	-95.1
19500.000000	-30.93	-13.00	17.93	10000.0	1000.000	H	294.0	0.0	-62.6

## 8.22a\_RSE\_R\_Ch9538\_RMC

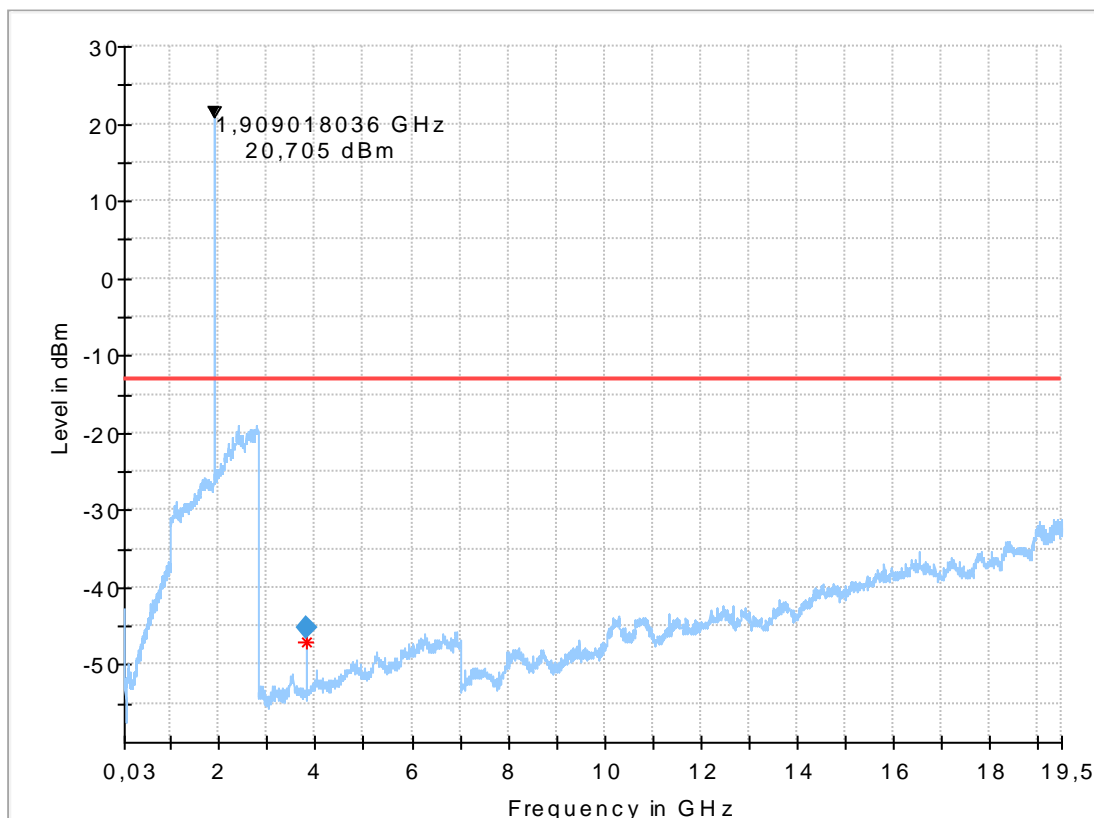
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9538 (fc = 1907.6 MHz)
Environmental Conditions:	Humidity: 41%rH; Temperature: 20°C
Operator:	RIs
Comment:	Laying

### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



### Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3816.648297	-45.34	-13.00	32.34	10000.0	1000.000	V	134.0	0.0	-95.1

## 8.22b\_RSE\_R\_Ch9538\_RMC

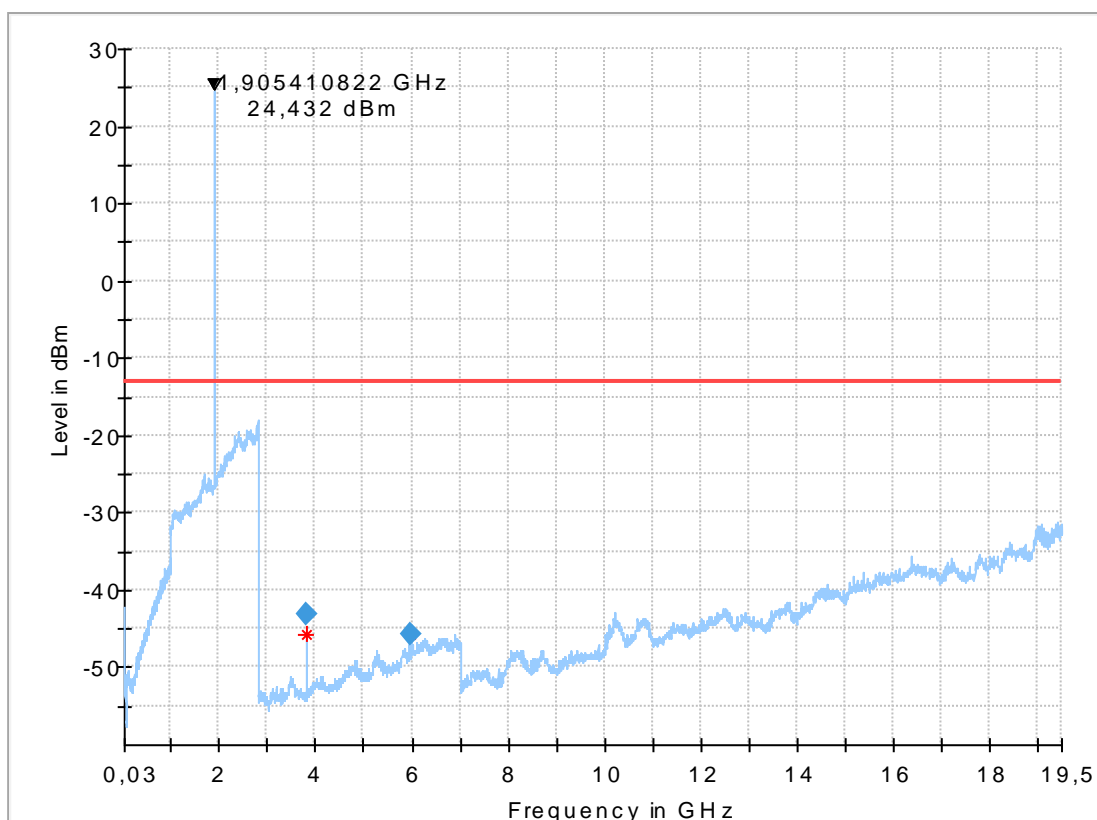
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9538 (fc = 1907.6 MHz)
Environmental Conditions:	Humidity: 41%rH; Temperature: 20°C
Operator:	Klv
Comment:	EUT standing position

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



### Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3816.648297	-43.27	-13.00	30.27	10000.0	1000.000	H	49.0	0.0	-95.1
5998.682365	-45.63	-13.00	32.63	10000.0	1000.000	V	9.0	0.0	-87.9



### 3.5. Spurious emissions radiated (FDD Band IV transmitting mode)

#### 8.40a\_RSE\_R\_Ch1312\_RMC

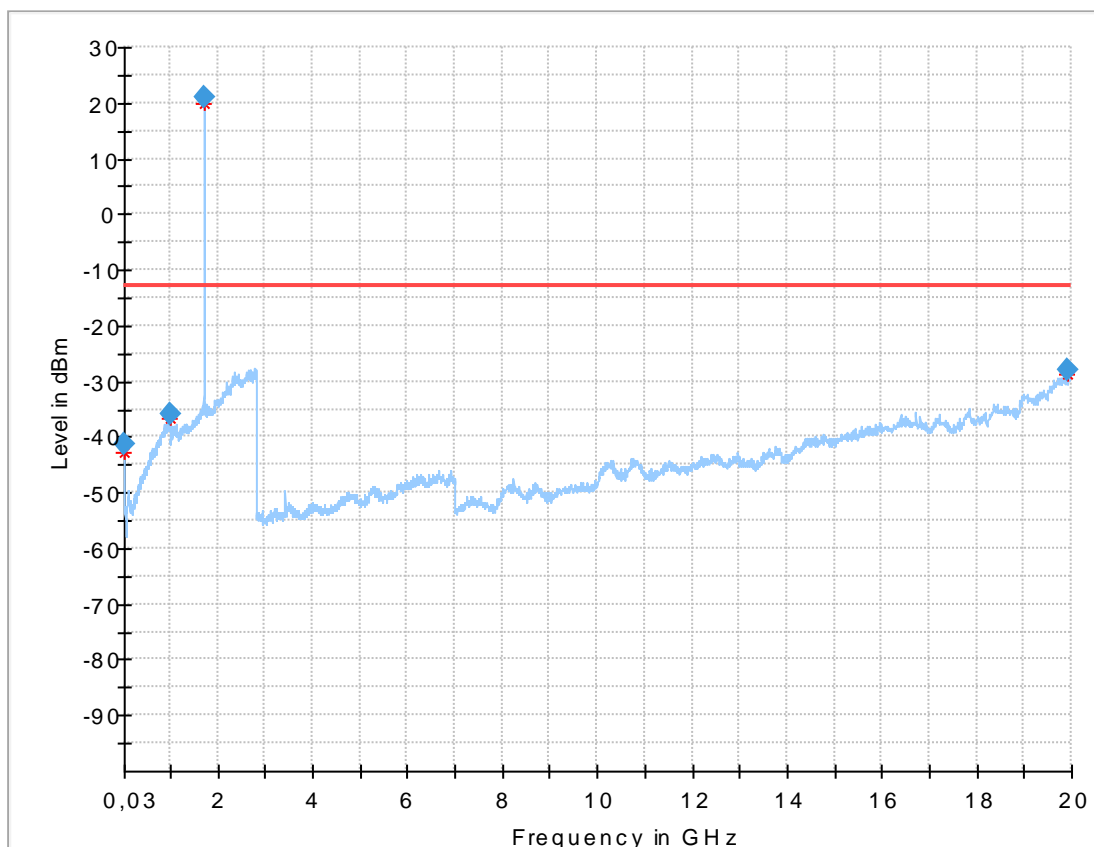
##### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDIV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.15.00
Test Case:	FCC Part 27
Operating Conditions:	UE allocated channel 1312
Operator Name:	SRa
Comment:	Humidity: 46%rH; Temperature: 19°C

##### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

##### Full Spectrum



##### Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
30.180361	-41.34	-13.00	28.34	10000.0	1000.000	155.0	V	-52.0	0.0	-76.4
990.832647	-35.81	-13.00	22.81	10000.0	1000.000	155.0	H	192.0	0.0	-74.4
1711.242485	20.85	-13.00	-33.85	10000.0	1000.000	155.0	H	177.0	0.0	-63.4
19933.126252	-27.93	-13.00	14.93	10000.0	1000.000	155.0	V	343.0	0.0	-60.5

### 8.40b\_RSE\_R\_Ch1312\_RMC

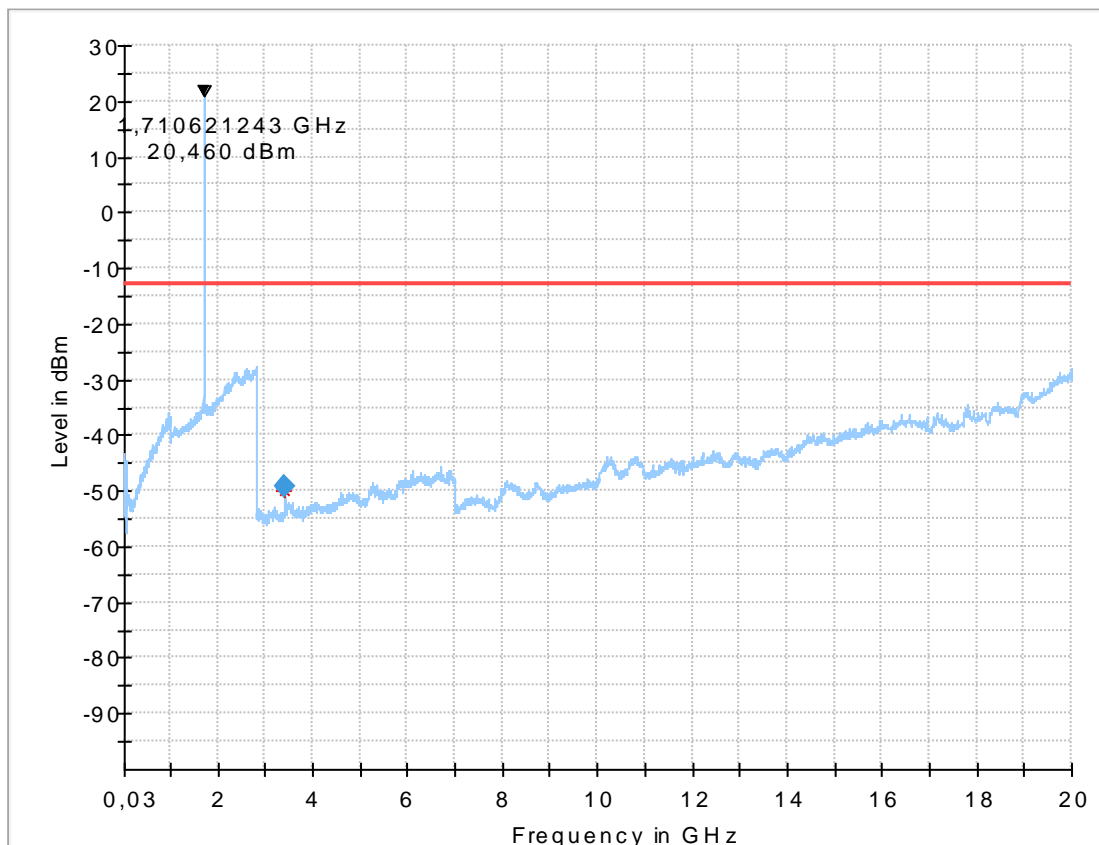
#### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDIV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.15.00
Test Case:	FCC Part 27
Operating mode:	UE allocated channel 1312
Operator Name:	AFr
Operating Conditions:	Humidity: 46%rH; Temperature: 19°C
Comment:	DUT Standing

#### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

#### Full Spectrum



#### Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3423.386773	-49.37	-13.00	36.37	10000.0	1000.000	155.0	H	223.0	0.0	-95.0

## 8.41a\_RSE\_R\_Ch1450

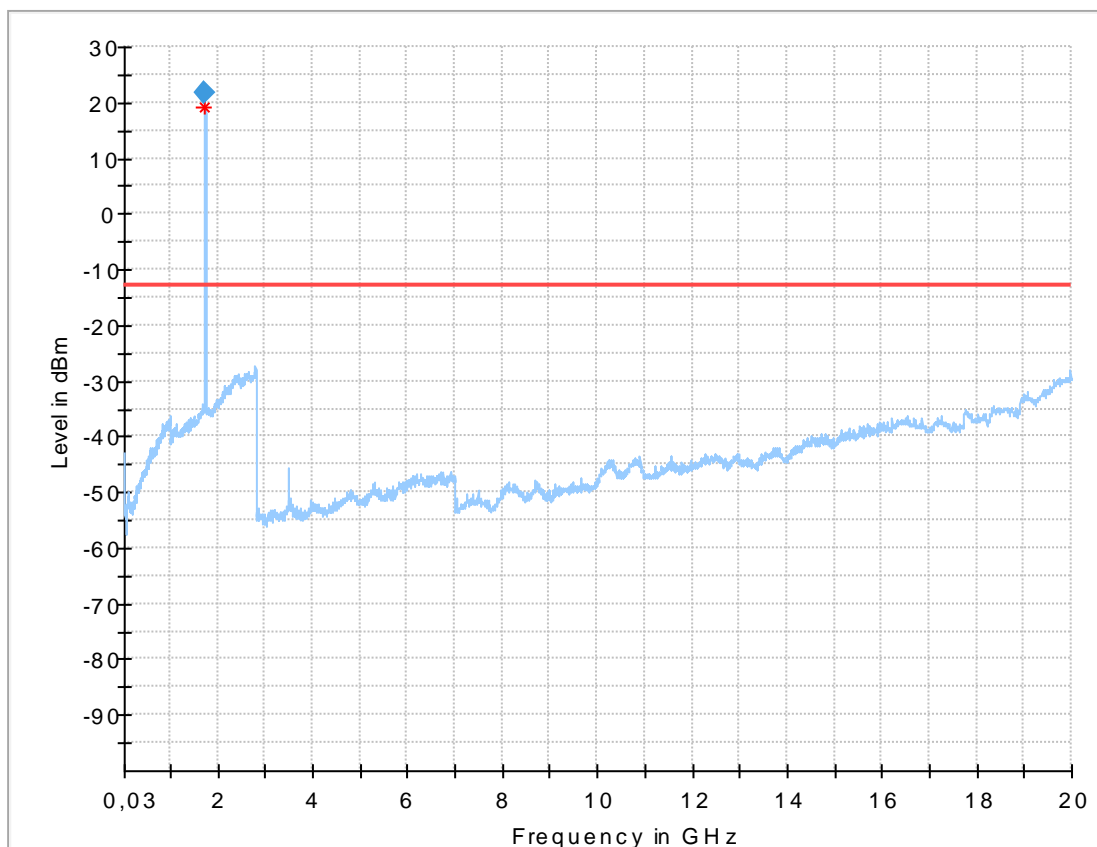
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDIV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.15.00
Test Case:	FCC Part 27
Operating Conditions:	UE allocated channel 1450
Operator Name:	SRa
Comment:	Humidity: 46%rH; Temperature: 19°C

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

### Full Spectrum



### Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1738.777555	21.87	-13.00	-34.87	10000.0	1000.000	155.0	V	260.0	0.0	-63.6

## 8.41b\_RSE\_R\_Ch1450\_RMC

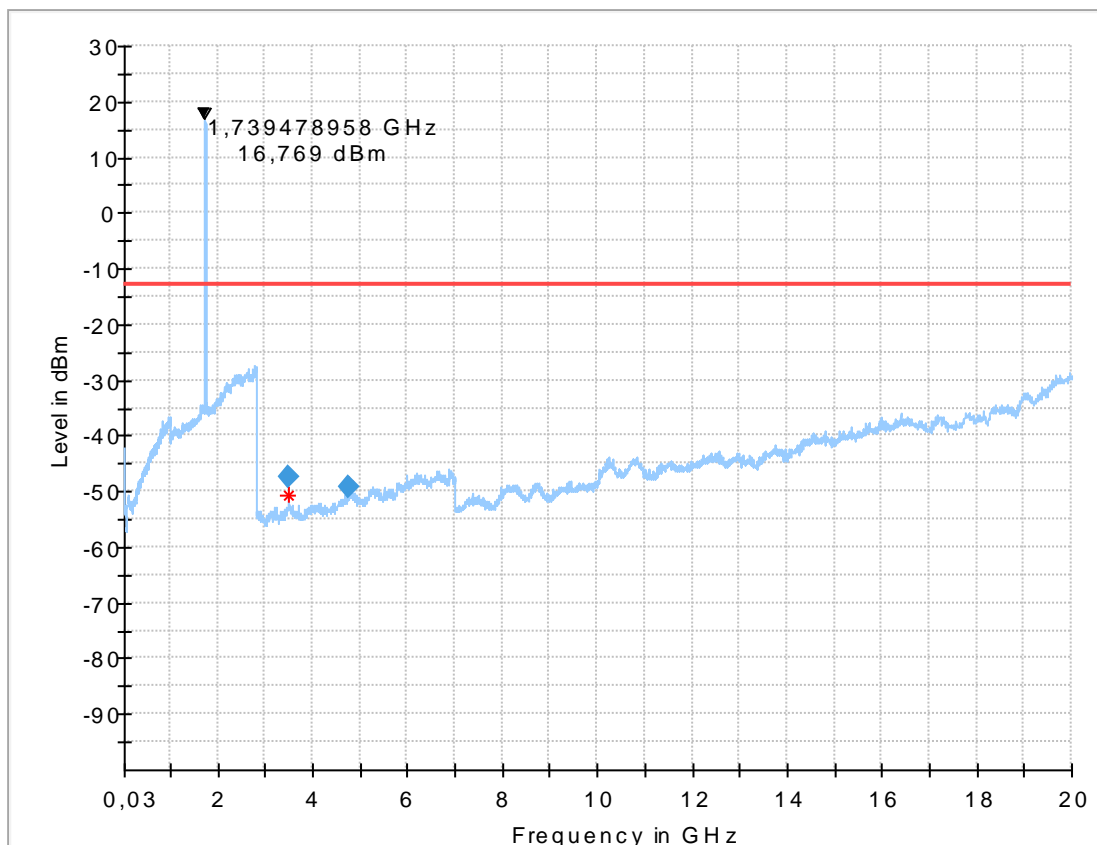
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDIV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.15.00
Test Case:	FCC Part 27
Operating mode:	UE allocated channel 1450
Operator Name:	AFr
Operating Conditions:	Humidity: 46%rH; Temperature: 19°C
Comment:	EUT Standing

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

### Full Spectrum



### Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3477.454910	-47.31	-13.00	34.31	10000.0	1000.000	155.0	H	62.0	0.0	-93.9
4766.913827	-49.13	-13.00	36.13	10000.0	1000.000	155.0	V	-32.0	0.0	-90.4

## 8.42a\_RSE\_R\_Ch1513

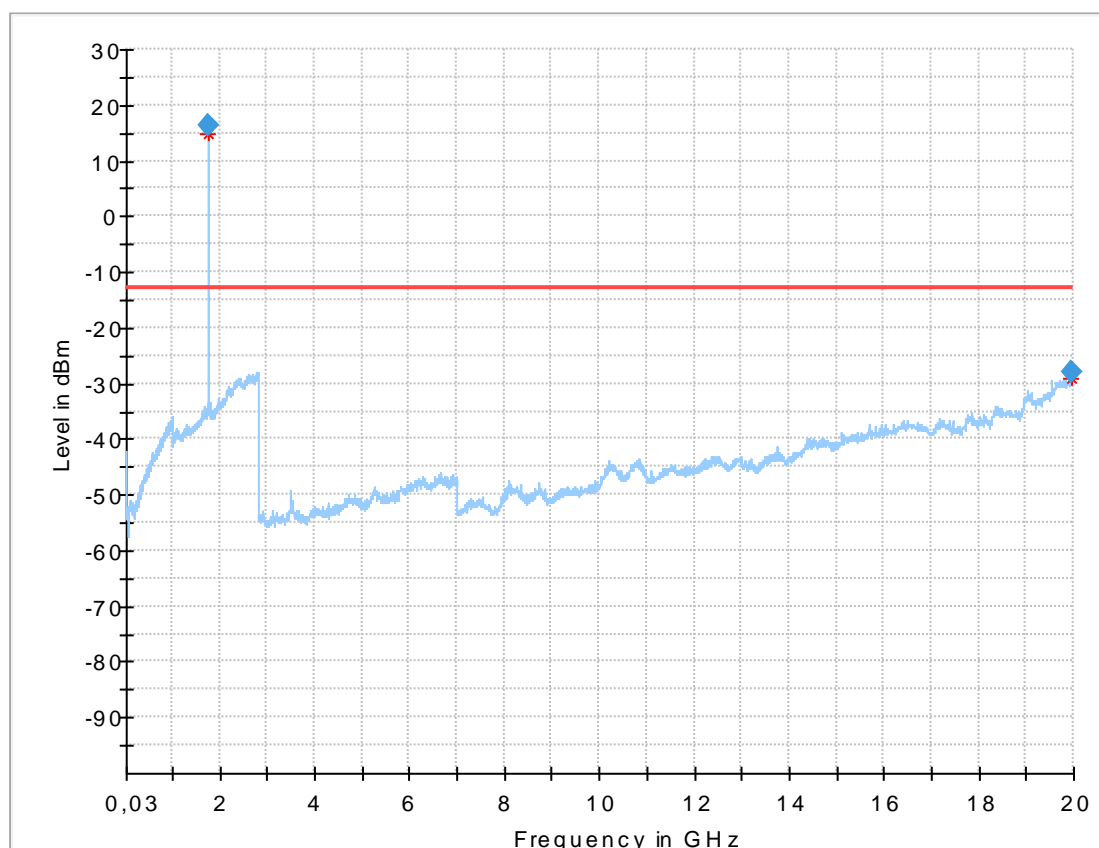
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDIV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.15.00
Test Case:	FCC Part 27
Operating Conditions:	UE allocated channel 1450
Operator Name:	SRa
Comment:	Humidity: 46%rH; Temperature: 19°C

### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

### Full Spectrum



### Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1751.402805	16.25	-13.00	-29.25	10000.0	1000.000	155.0	V	263.0	0.0	-63.6
19950.881764	-27.94	-13.00	14.94	10000.0	1000.000	155.0	V	32.0	0.0	-60.4

### 8.42b\_RSE\_R\_Ch1513\_RMC

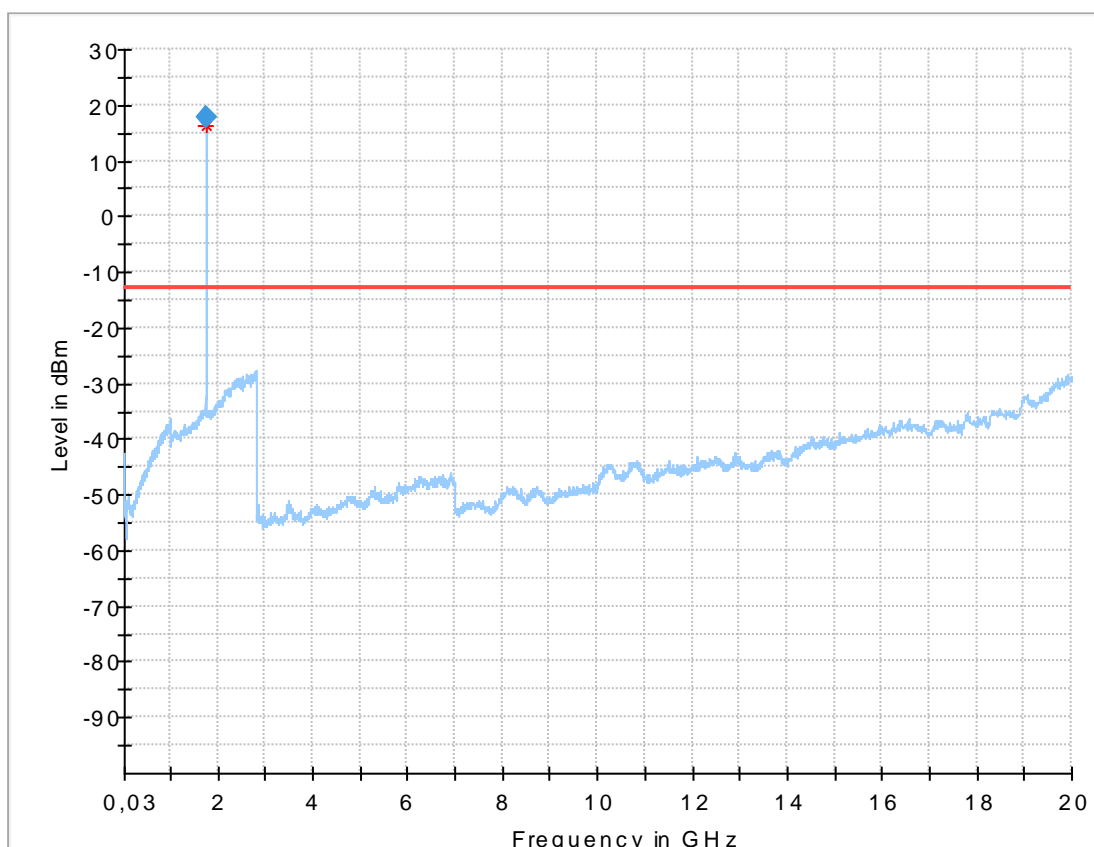
#### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDIV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.15.00
Test Case:	FCC Part 27
Operating Conditions:	UE allocated channel 1513
Operator Name:	SRa
Comment:	Humidity: 46%rH; Temperature: 19°C

#### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

#### Full Spectrum



#### Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1753.687375	17.61	-13.00	-30.61	10000.0	1000.000	155.0	V	19.0	0.0	-63.6

### 3.6. Spurious emissions radiated (FDD Band V transmitting mode)

#### 8.50a\_RSE\_R\_Ch4132\_RMC

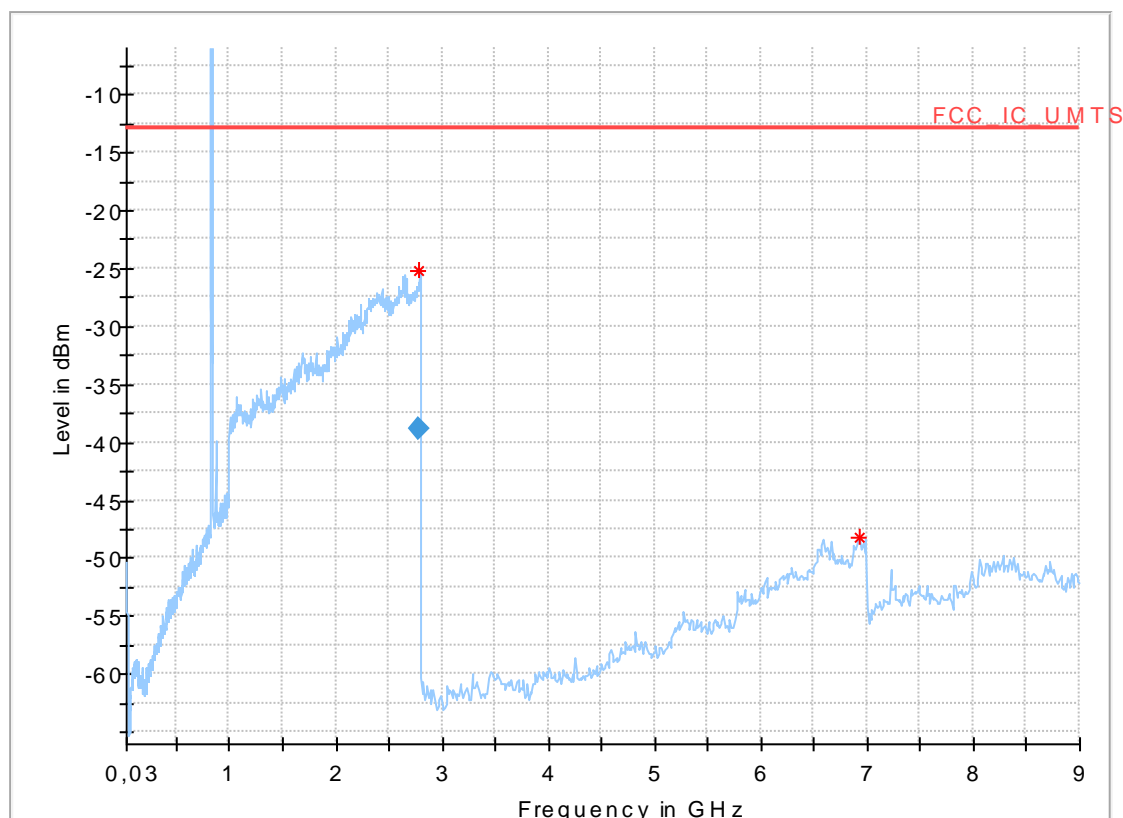
##### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4132(fc = 826.4MHz) RMC
Environmental Conditions:	Humidity: 40%rH; Temperature: 19°C
Operator:	Klv
Comment:	EUT Laying

##### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



##### Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2788.607214	-	25.81	1000.0	H	42.0	0.0	-57.2
6928.987976	-	53.46	1000.0	V	290.0	0.0	-85.0

## 8.50b\_RSE\_R\_Ch4132\_RMC

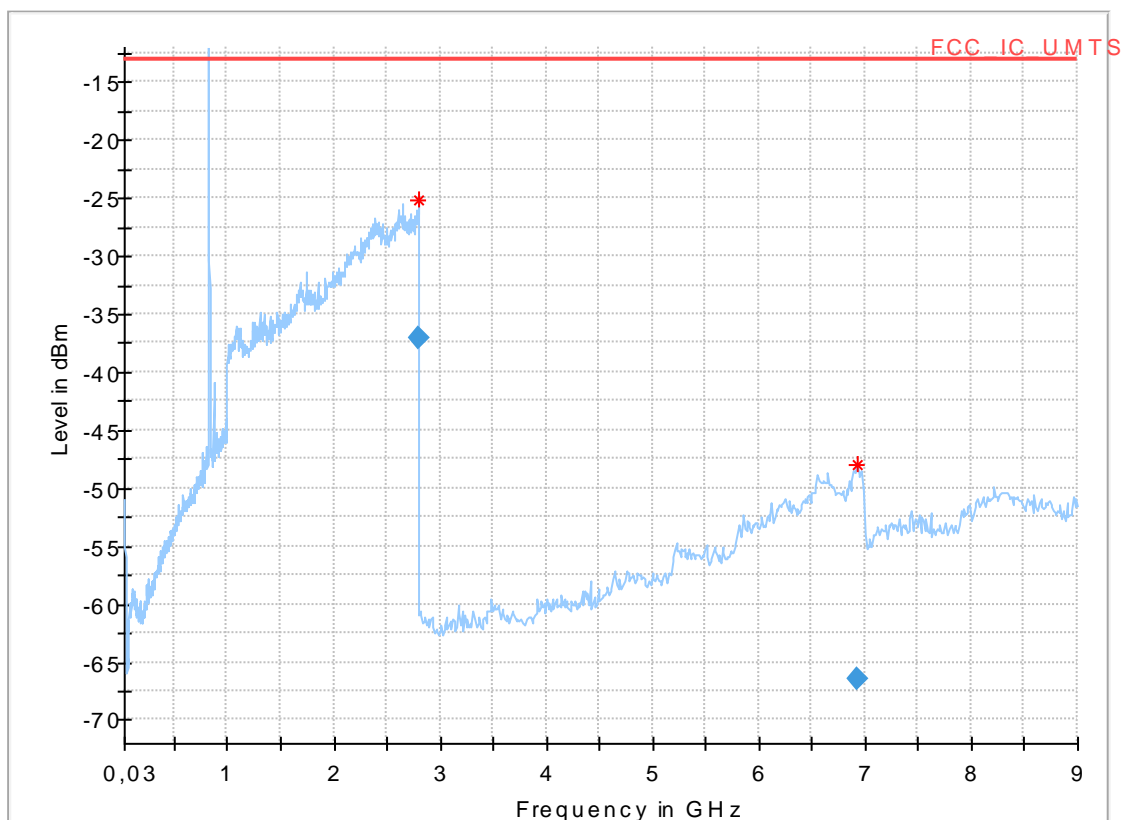
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4132 (fc = 826.4MHz) RMC
Environmental Conditions:	Humidity: 40%rH; Temperature: 19°C
Operator:	Klv
Comment:	EUT standing position

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



### Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2798.957916	-	24.11	1000.0	V	184.0	0.0	-57.1
6922.815631	-	53.48	1000.0	H	-18.0	0.0	-84.9



## 8.51a\_RSE\_R\_Ch4183\_RMC

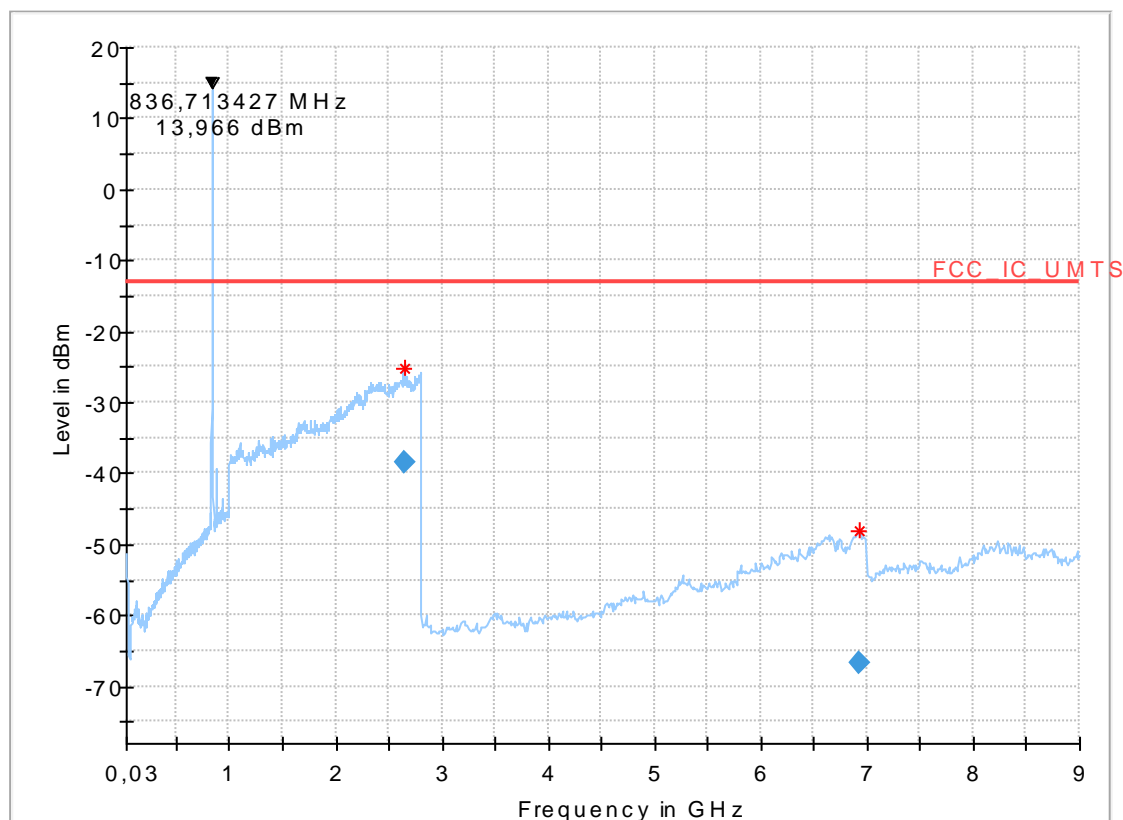
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4183 (fc = 836.6MHz) RMC
Environmental Conditions:	Humidity: 40%rH; Temperature: 19°C
Operator:	Klv
Comment:	Laying

### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



### Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2652.795591	-	25.50	1000.0	V	128.0	0.0	-58.5
6933.316633	-	53.60	1000.0	V	219.0	0.0	-85.0

## 8.51b\_RSE\_R\_Ch4183\_RMC

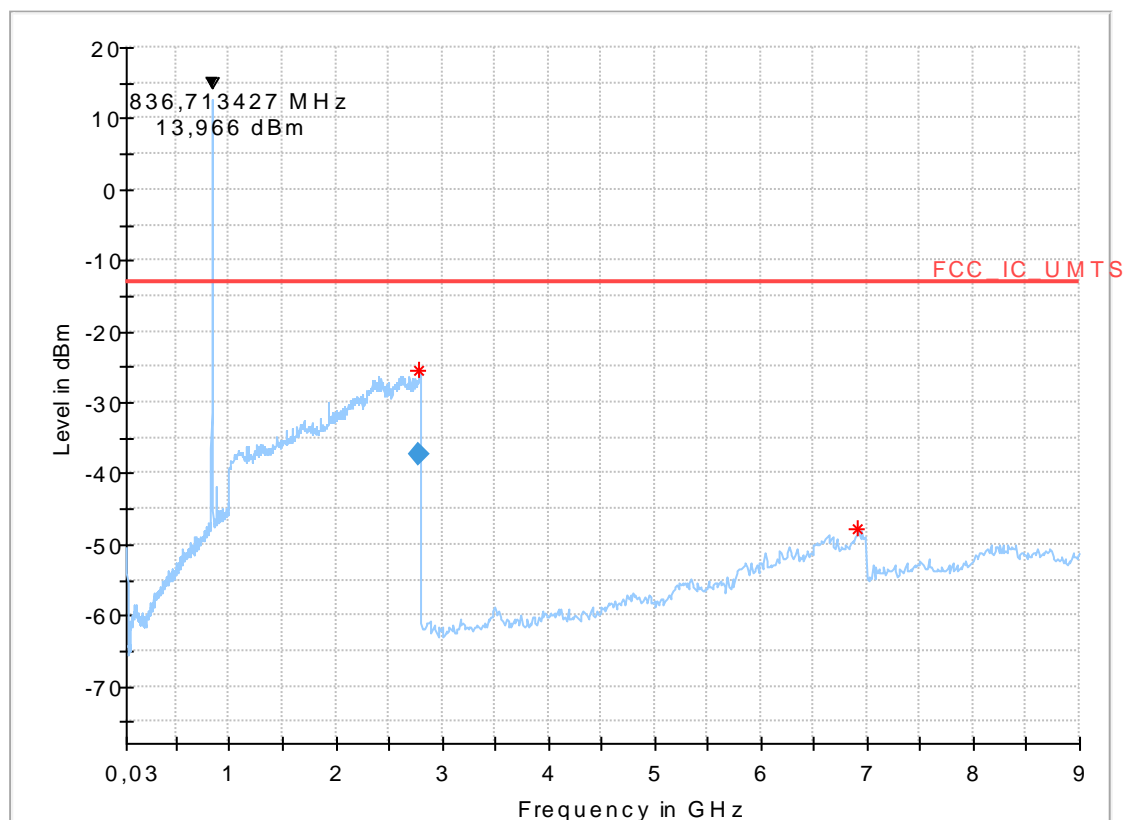
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4183 (fc = 836.6 MHz) RMC
Environmental Conditions:	Humidity: 40%rH; Temperature: 19°C
Operator:	Klv
Comment:	EUT standing position

### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



### Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2786.763527	-	24.25	1000.0	H	135.0	0.0	-57.2

## 8.52a\_RSE\_R\_Ch4183\_RMC

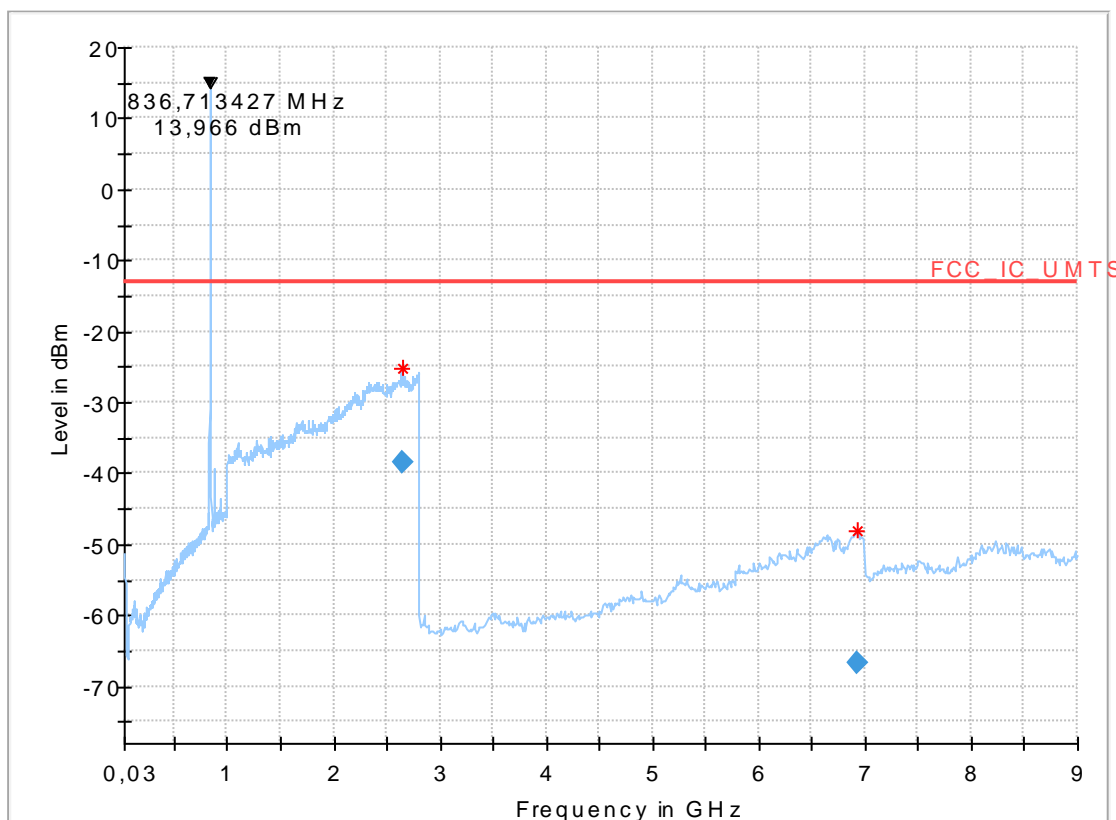
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4183 (fc = 836.6 MHz) RMC
Environmental Conditions:	Humidity: 40%rH; Temperature: 19°C
Operator:	Klv
Comment:	Laying

### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



### Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2652.795591	-	25.50	1000.0	V	128.0	0.0	-58.5
6933.316633	-	53.60	1000.0	V	219.0	0.0	-85.0

## 8.52a\_RSE\_R\_Ch4233\_RMC

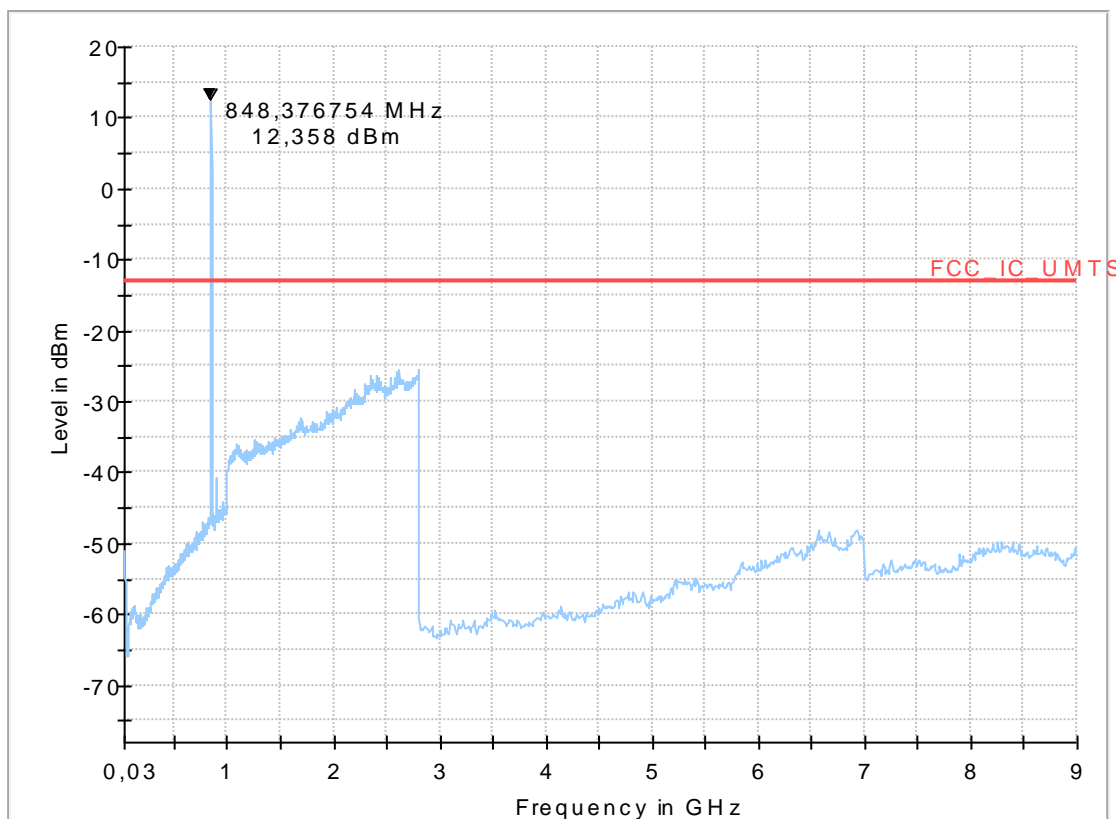
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4233 (fc = 846.6 MHz)
Environmental Conditions:	Humidity: 40%rH; Temperature: 19°C
Operator:	RIs
Comment:	Laying

### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



## 8.52b\_RSE\_R\_Ch4233\_RMC

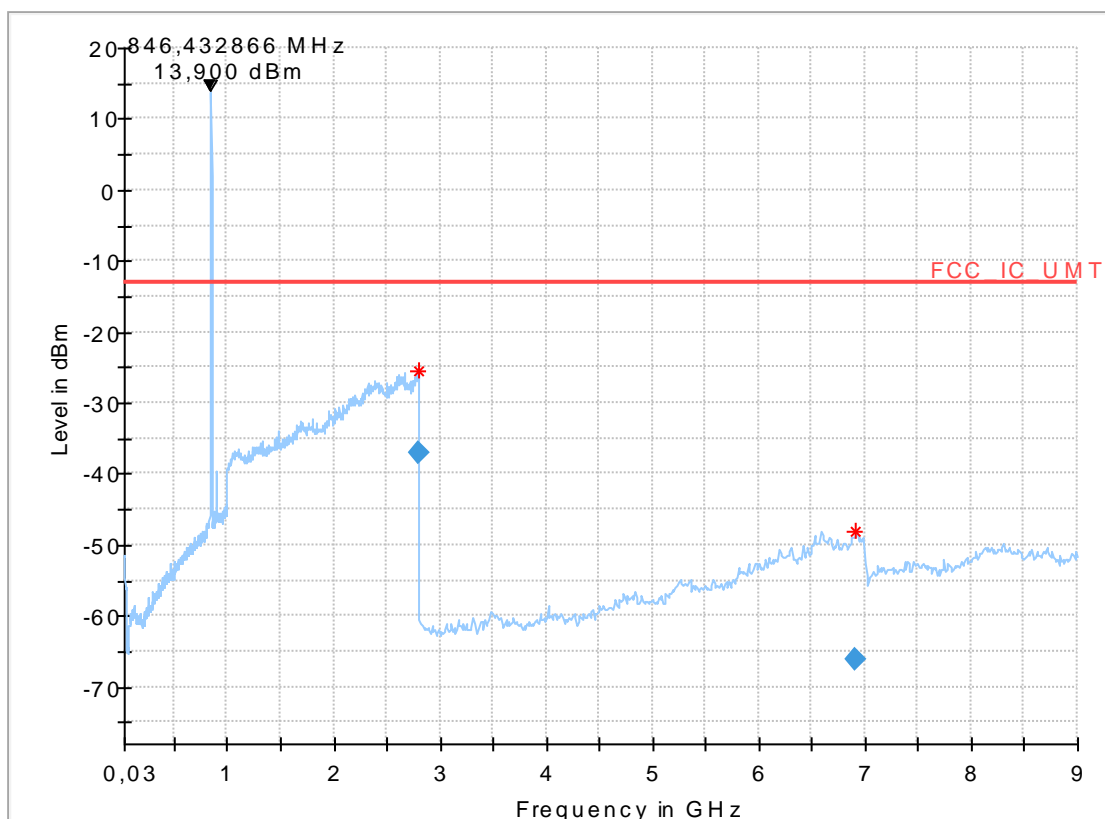
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4233 (fc = 846.6 MHz) RMC
Environmental Conditions:	Humidity: 40%rH; Temperature: 19°C
Operator:	Klv
Comment:	EUT standing position

### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



### Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2795.741483	-	24.15	1000.0	H	156.0	0.0	-57.1
6908.747495	-	53.12	1000.0	V	296.0	0.0	-84.9

### 3.7. Radiated emissions on FDD Band II band-edge

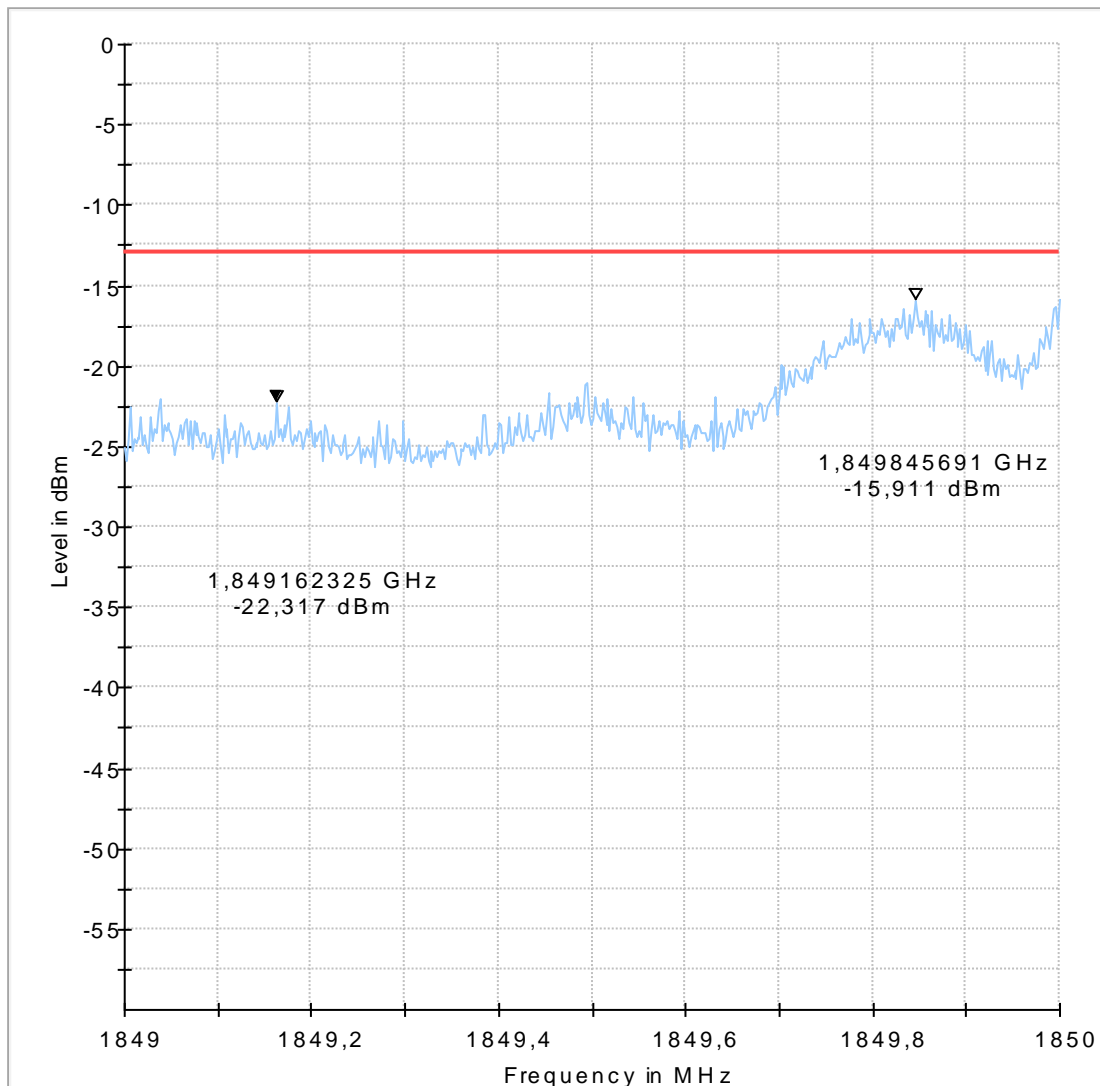
#### 9.20a\_BE\_R\_Ch9262\_RMC

##### Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	UMTS_2_BE
Operator Name:	RIs
Comment:	EUT Laying position

##### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-



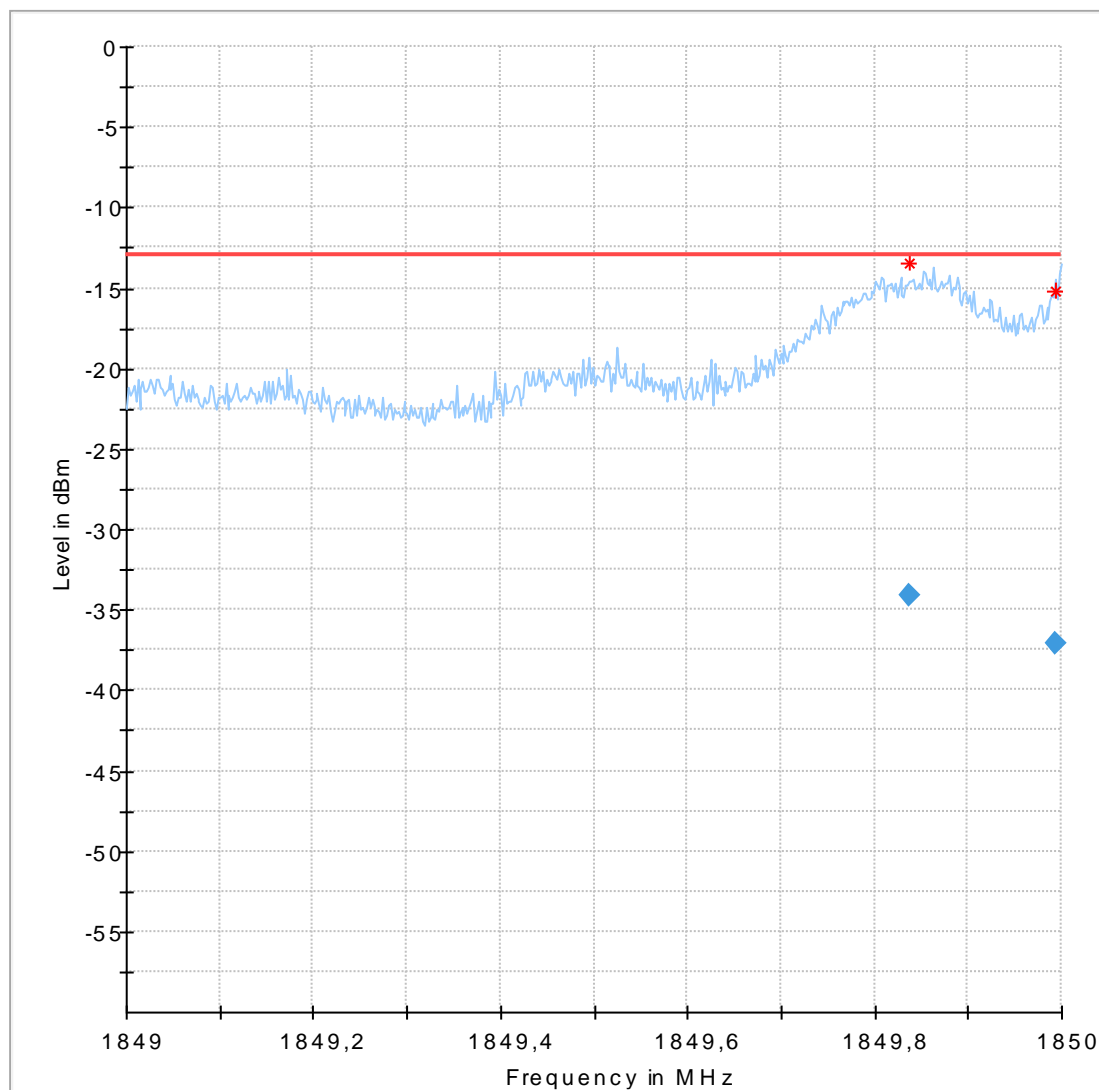
**9.20b\_BE\_R\_Ch9262\_RMC****Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions in 3m distance  
Test Site: CETECOM GmbH Essen  
Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4  
Antenna polarisation: horizontal/vertical

Operation mode: UMTS\_2\_BE  
Operator Name: Klv  
Comment: EUT standing position

**EUT Information**

Manufacturer: peiker acoustic GmbH & Co. KG  
EUT: V1231-0  
-----  
HW version: V1231-0\_Ver.1  
SW version: MPSS.TH.2.0.2-00256  
Serial number: 004402580040446  
Connected Interfaces: Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables  
Power Supply: 12VDC  
Comments: Final measurement with RMS detector



## 9.21a\_BE\_R\_Ch9538\_RMC

### Common Information

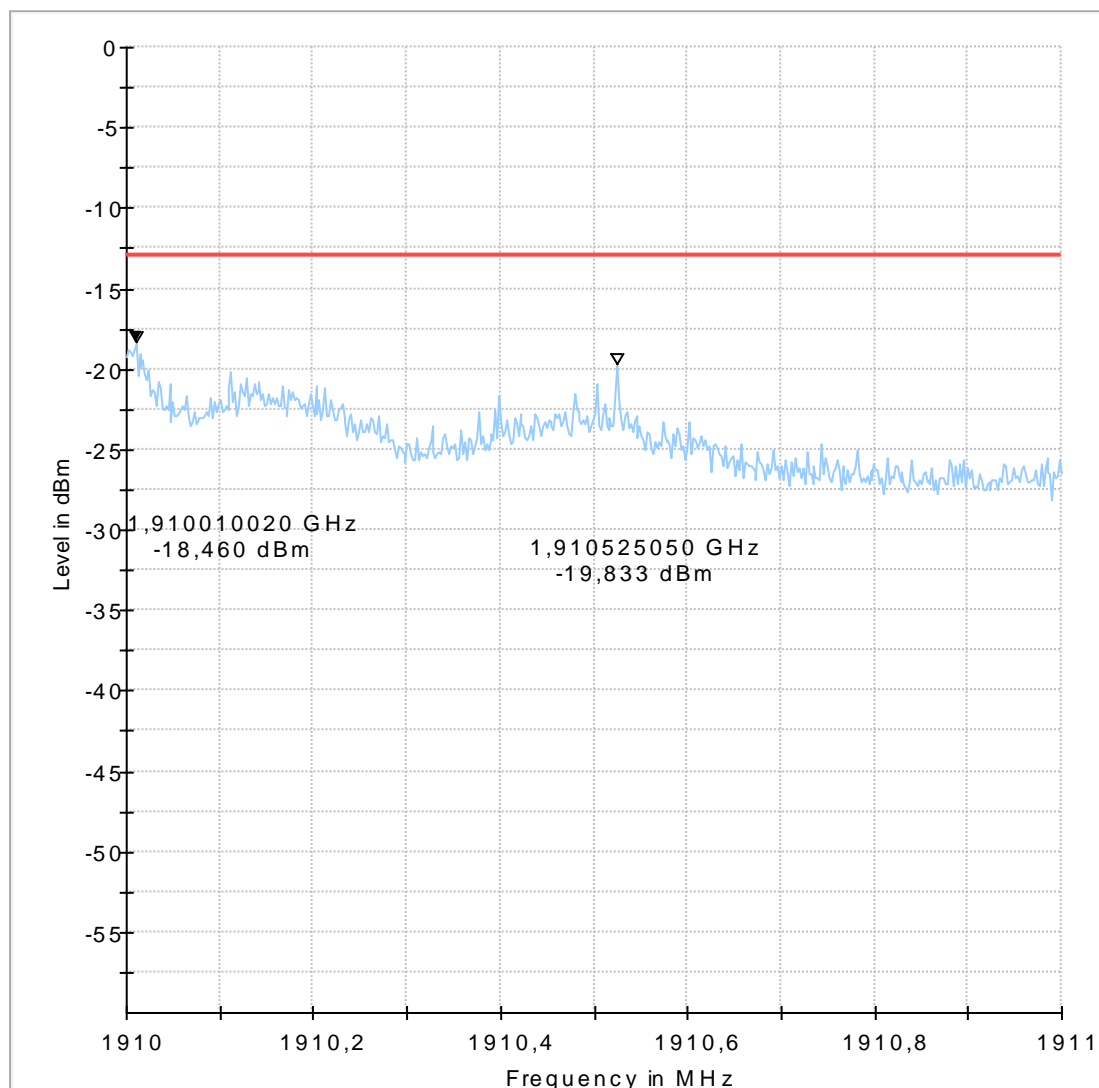
Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical

Operation mode:	UMTS_2_BE
Operator Name:	RIs
Comment:	EUT Laynig position

### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-





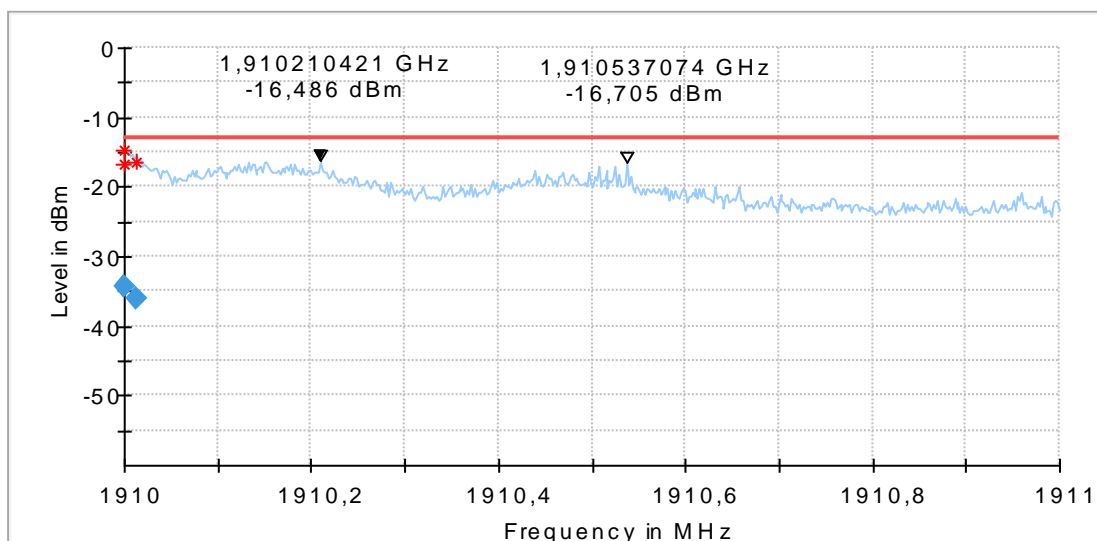
## 9.21b\_BE\_R\_Ch9538\_RMC

### Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	UMTS_2_BE
Operator Name:	Klv
Comment:	EUT standing position

### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	Final measurement with RMS-detector



### Final Result

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1910.000000	-34.33	-13.00	21.33	10000.0	5.000	V	340.0	0.0	-62.8
1910.012024	-36.13	-13.00	23.13	10000.0	5.000	V	338.0	0.0	-62.8

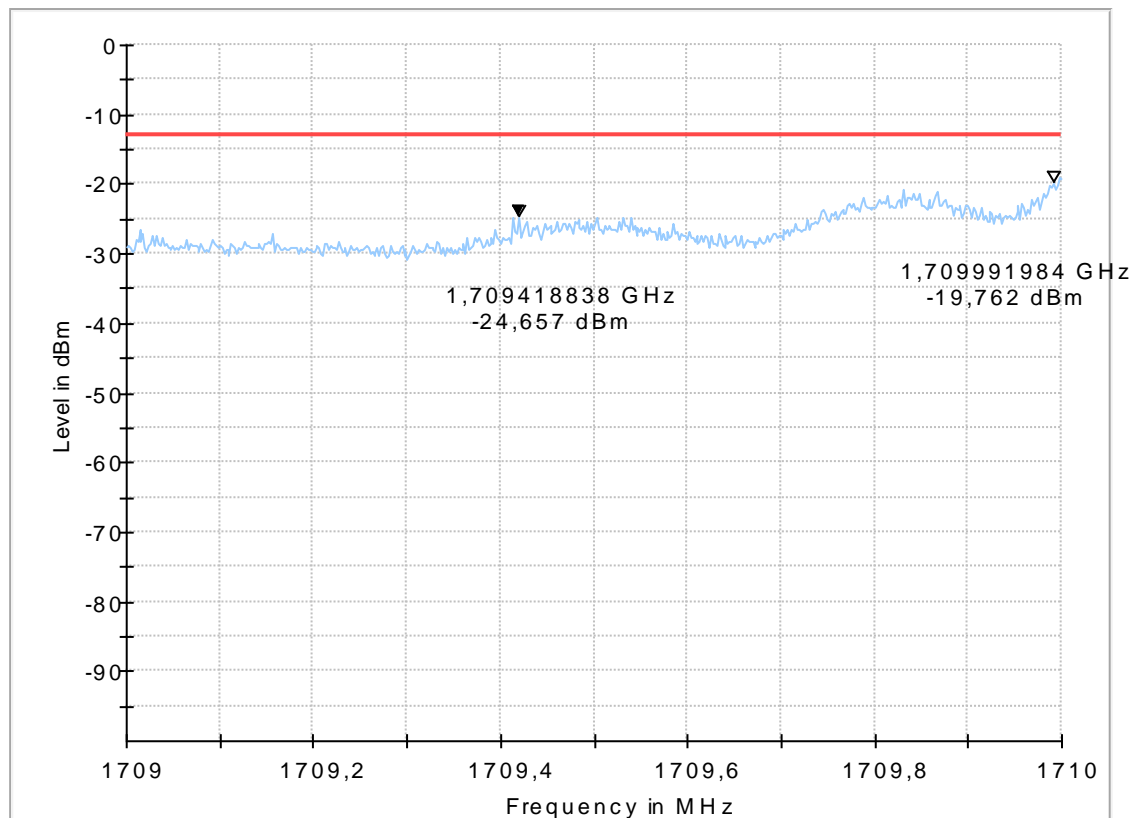
**3.8. Radiated emissions on FDD Band IV band-edge****9.40a\_BE\_R\_Ch1312\_RMC****Common Information**

Test Description:	Radiated Spurious Emissions Part 27
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UMTS_4_BE_CH_Low
Environmental Conditions:	Humidity: 40%rH; Temperature: 19°C
Operator:	RIs
Comment:	Laying

**EUT Information**

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



### 9.40b\_BE\_R\_Ch1312\_RMC

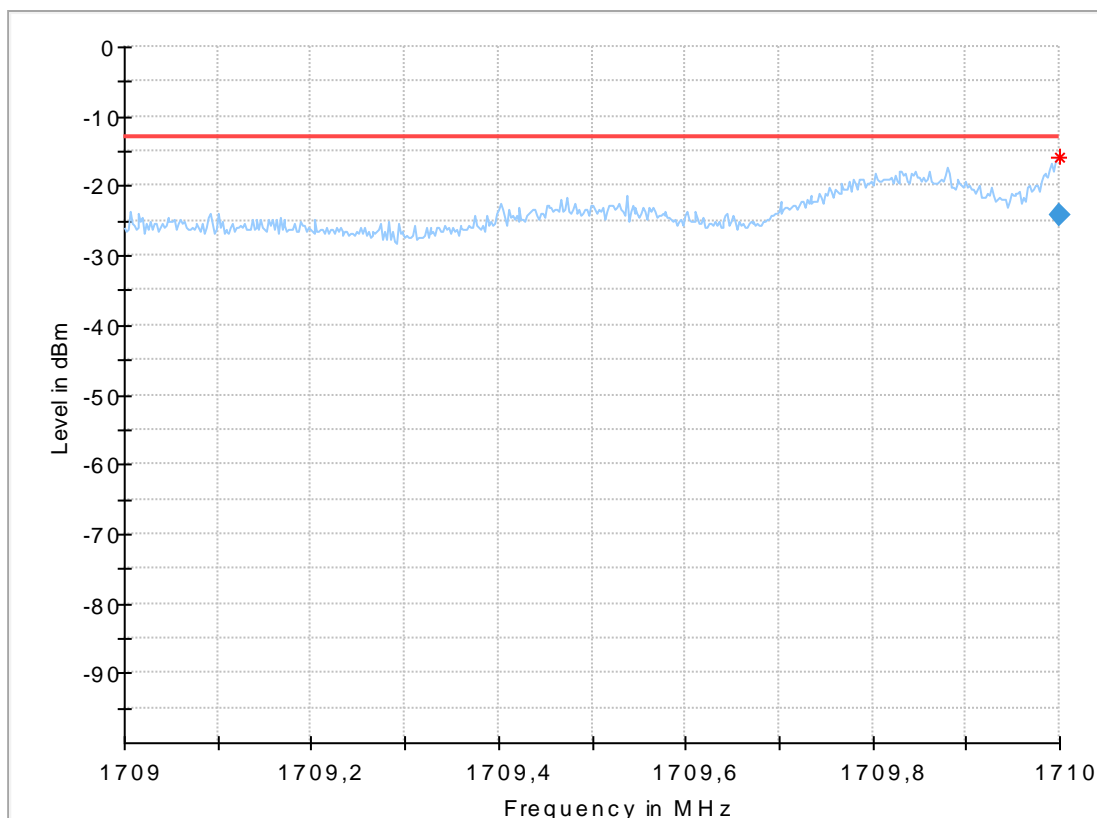
#### Common Information

Test Description:	Radiated Spurious Emissions Part 27
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UMTS_4_BE_CH_Low
Environmental Conditions:	Humidity: 40%rH; Temperature: 19°C
Operator:	Klv
Comment:	EUT standing position

#### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



#### Final Result

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1710.000000	-24.27	-13.00	11.27	10000.0	50.000	155.0	H	-9.0	0.0	-63.4

(continuation of the "Final\_Result" table from column 17 ...)

Frequency (MHz)	Comment

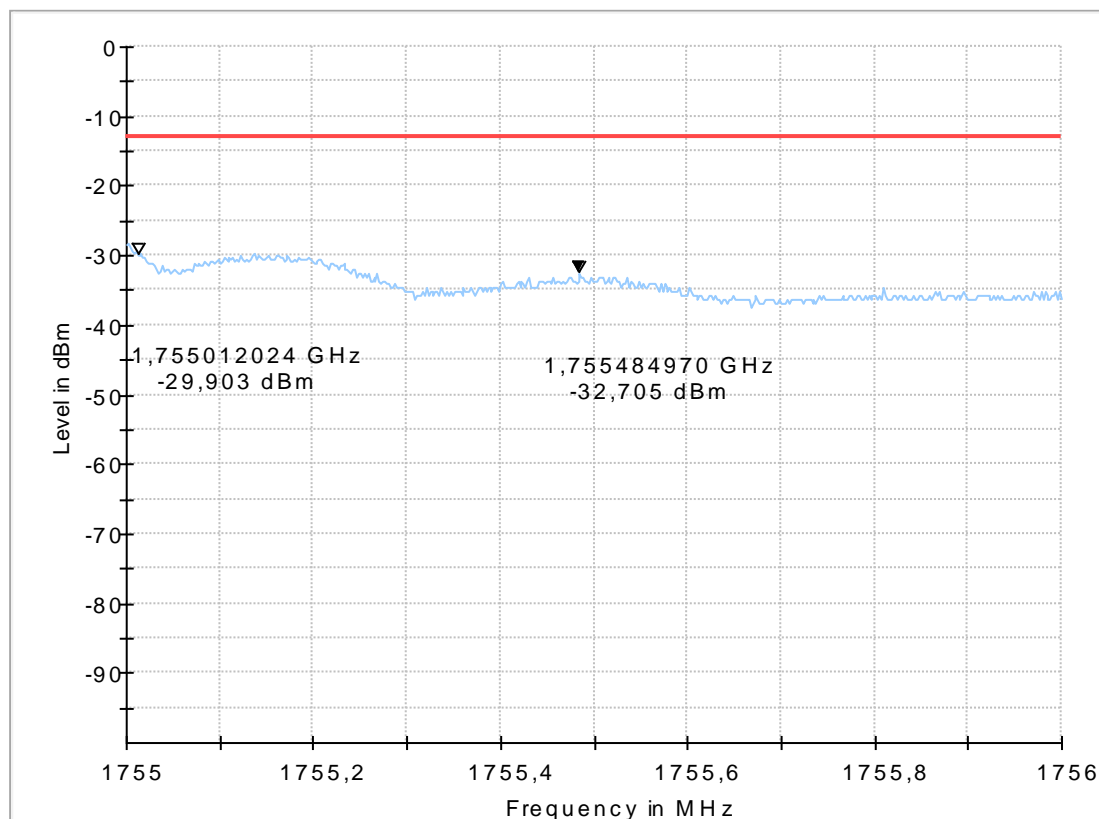
**9.41a\_BE\_R\_Ch1513\_RMC****Common Information**

Test Description:	Radiated Spurious Emissions Part 27
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UMTS_4_BE
Environmental Conditions:	Humidity: 40%rH; Temperature: 19°C
Operator:	RI
Comment:	Laying

**EUT Information**

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0

-----	-----
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

**Full Spectrum**

## 9.41b\_BE\_R\_Ch1513\_RMC

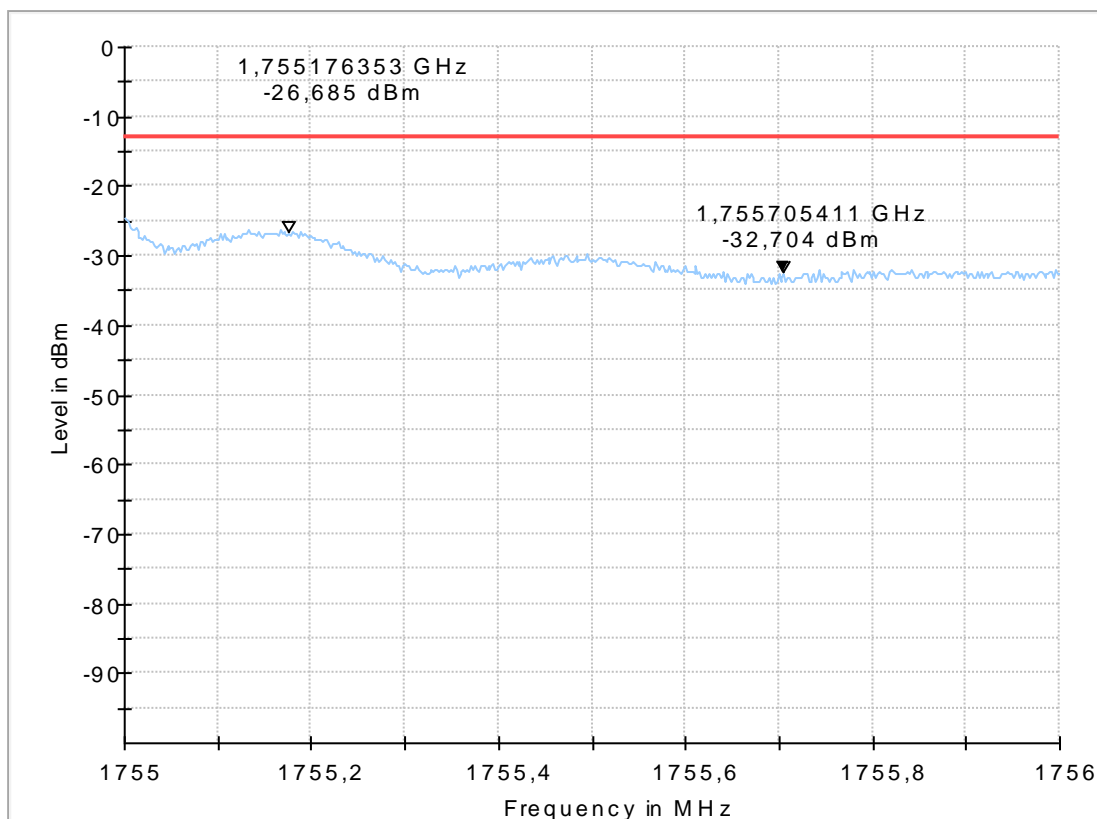
### Common Information

Test Description:	Radiated Spurious Emissions Part 27
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27
Operating Mode:	UMTS_4_BE
Environmental Conditions:	Humidity: 40%rH; Temperature: 19°C
Operator:	Klv
Comment:	EUT standing position

### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



### 3.9. Radiated emissions on FDD Band V band-edge

#### 9.50\_BE\_R\_Ch4132\_RMC

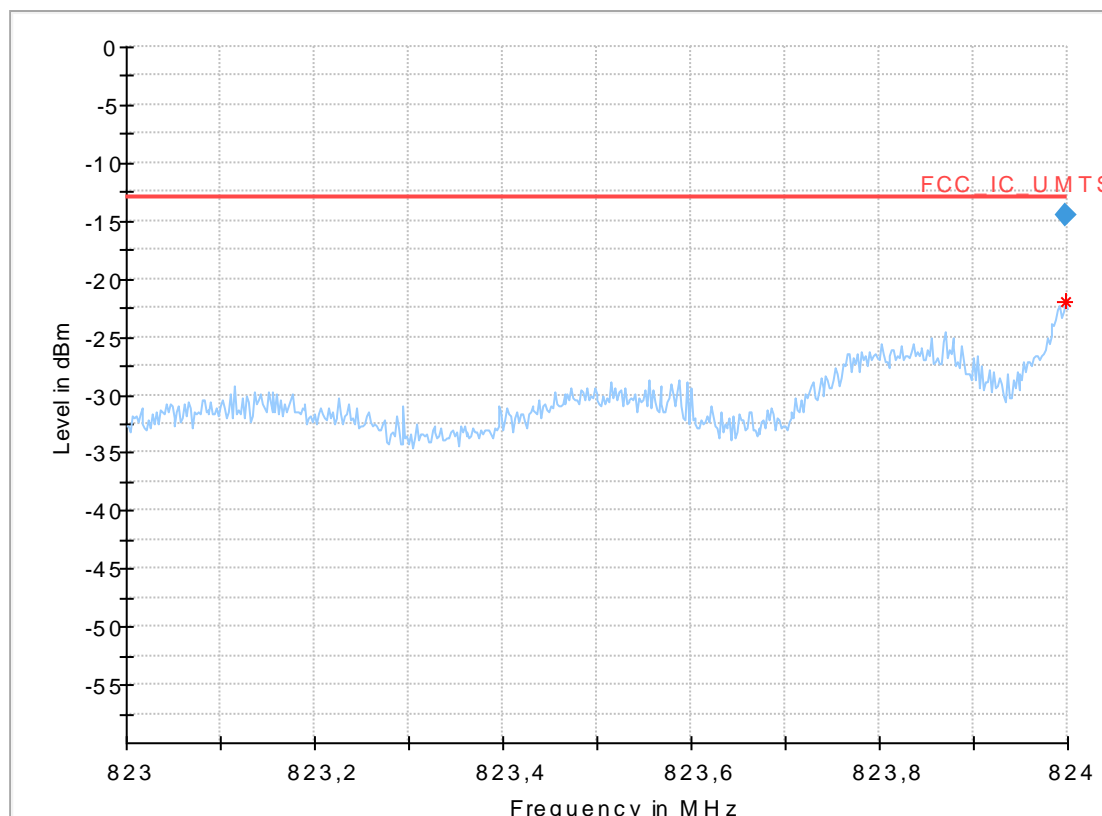
##### Common Information

Test Description:	Radiated Band Edge Compliance UMTS-FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 4132
Environmental Conditions:	Humidity: 40%rH; Temperature: 19°C
Operator:	Klv
Comment:	Laying

##### EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



##### Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Corr. (dB)
823.996982	-	1.61	500.0	V	123.0	-75.8

## 9.50b\_BE\_R\_Ch4132\_RMC

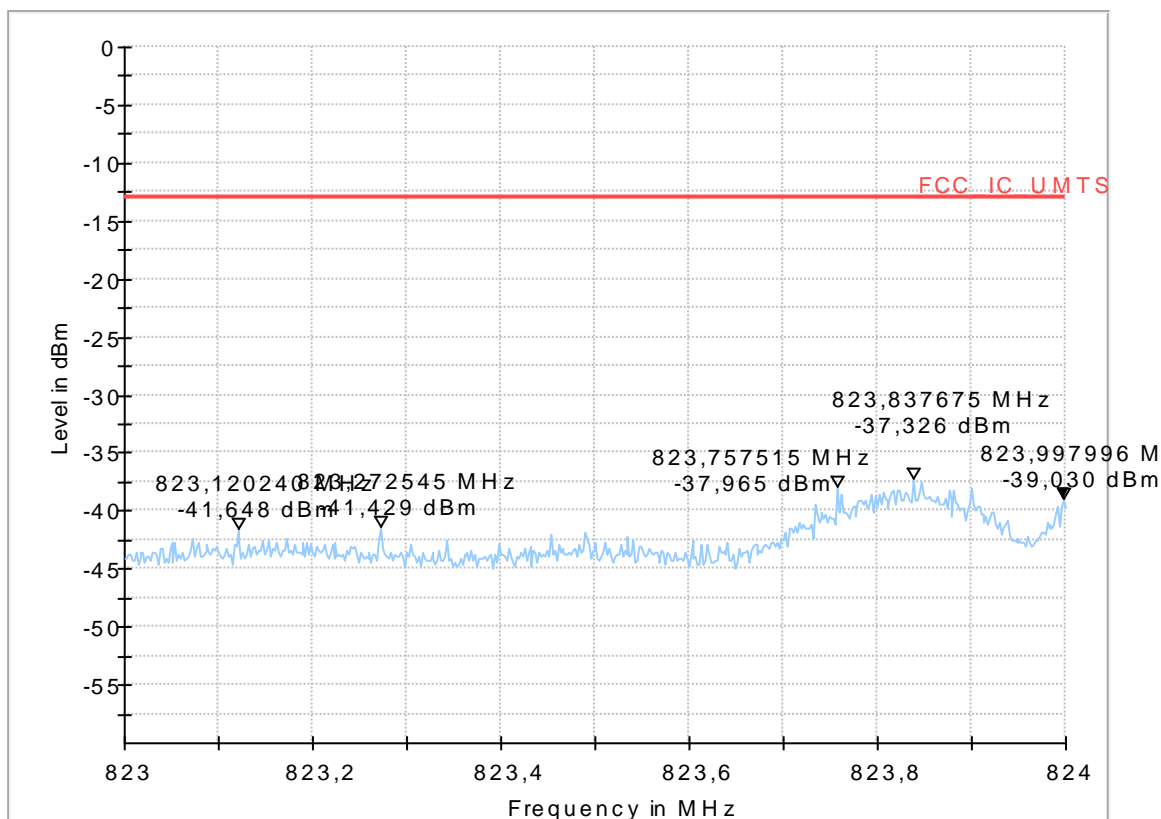
### Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4132
Environmental Conditions:	Humidity: 37%rH; Temperature: 20°C
Operator:	AFr
Comment:	EUT standing position

### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum



## 9.51\_BE\_R\_Ch4233\_RMC

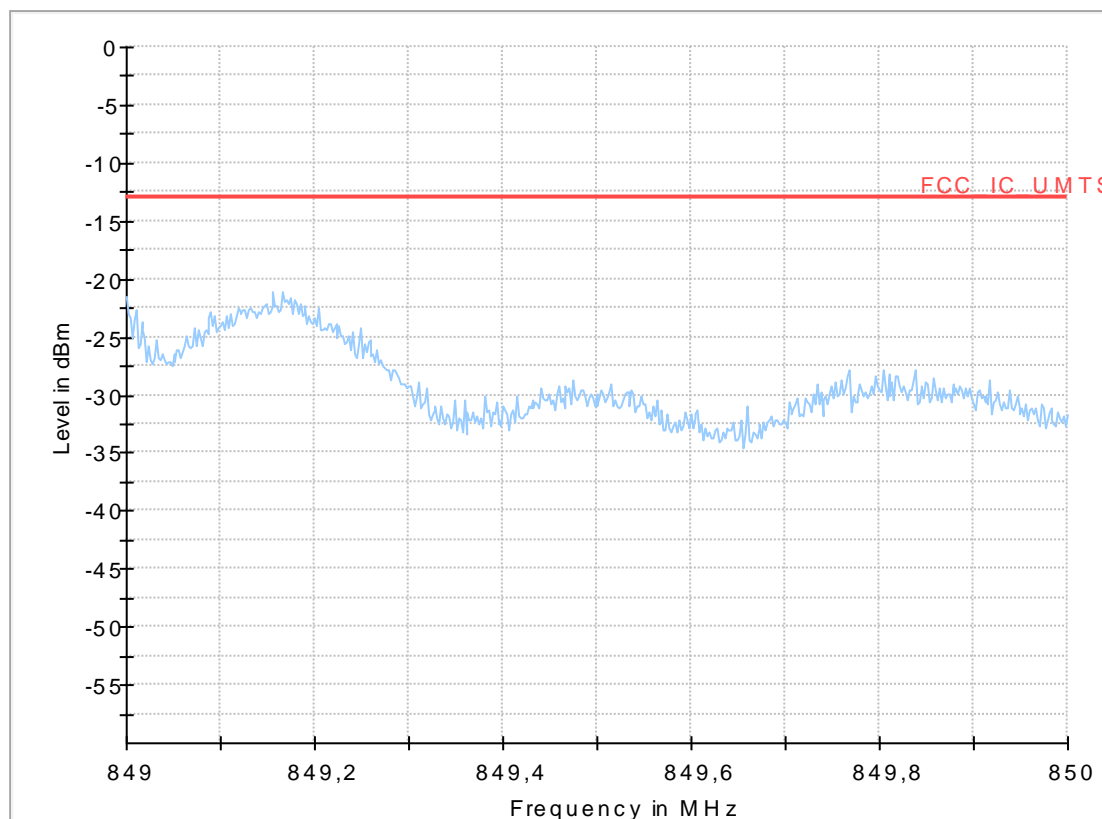
### Common Information

Test Description:	Radiated Band Edge Compliance UMTS-FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 4233 (fc = 846.6MHz), RMC Mode, PCL3 (+24dBm)
Environmental Conditions:	Humidity: 40%rH; Temperature: 19°C
Operator:	Klv
Comment:	Laying

### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum





## 9.51b\_BE\_R\_Ch4233\_RMC

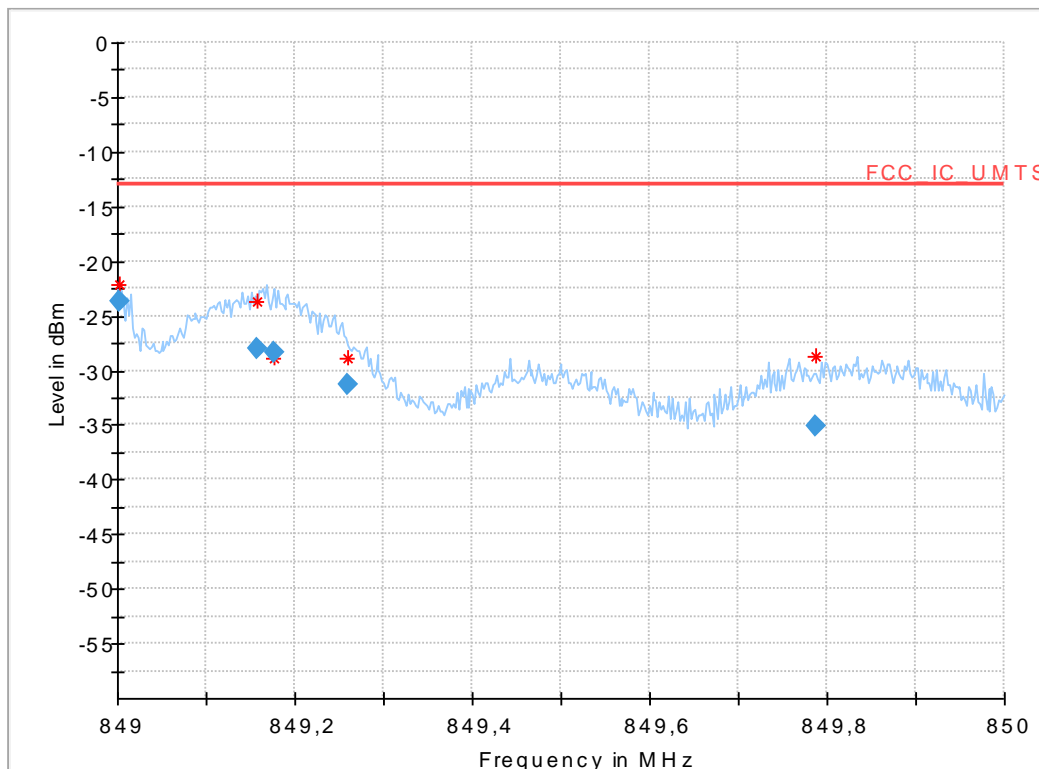
### Common Information

Test Description:	Radiated Band Edge Compliance UMTS-FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 4233 (fc = 846.6MHz), RMC Mode, PCL3 (+24dBm)
Environmental Conditions:	Humidity: 40%rH; Temperature: 19°C
Operator:	Klv
Comment:	EUT standing position

### EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	V1231-0
-----	
HW version:	V1231-0_Ver.1
SW version:	MPSS.TH.2.0.2-00256
Serial number:	004402580040446
Connected Interfaces:	Multiband antenna LTE + GNSS (9396828-02, S/N: 50110256), Multiband antenna LTE (9396827-02, S/N 50110255) microphone, loudspeaker, cables
Power Supply:	12VDC
Comments:	-

Full Spectrum

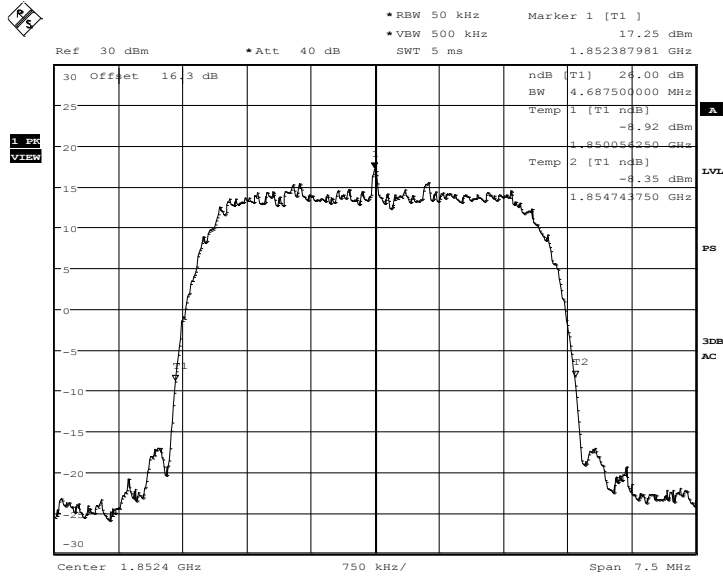


### Final Result

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Pol	Azimuth (deg)	Correction (dB)
849.002679	-23.63	-13.00	10.63	500.0	100.000	H	44.0	-75.9
849.156692	-28.06	-13.00	15.06	500.0	100.000	H	43.0	-76.0
849.177618	-28.42	-13.00	15.42	500.0	100.000	H	41.0	-76.0
849.260491	-31.35	-13.00	18.35	500.0	100.000	H	40.0	-76.0
849.786346	-35.03	-13.00	22.03	500.0	100.000	H	37.0	-76.0

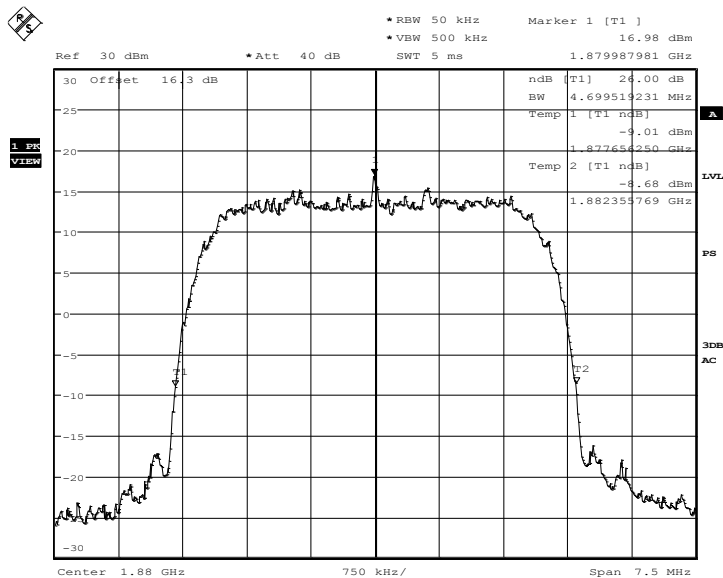
## 3.10. 26dBc Emission bandwidth

### 3.10.1. FDD II TX Mode



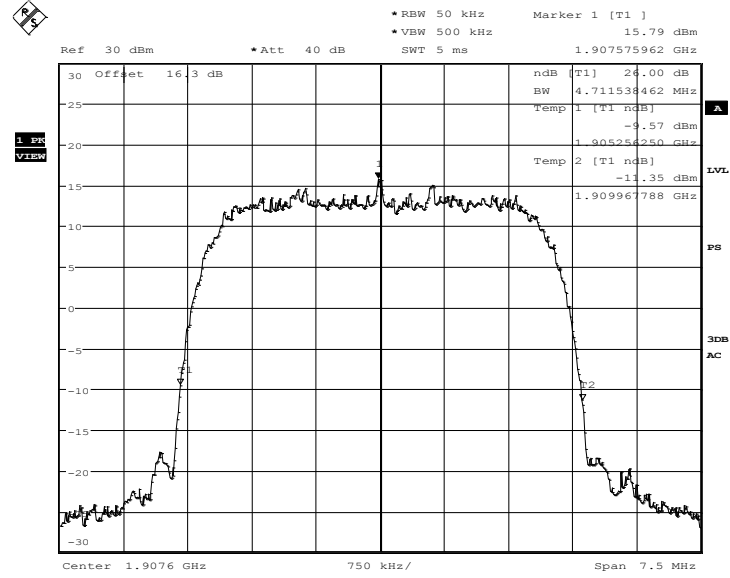
Date: 29.APR.2017 15:49:02

**Diagram 10: Channel 9262**



Date: 29.APR.2017 15:52:36

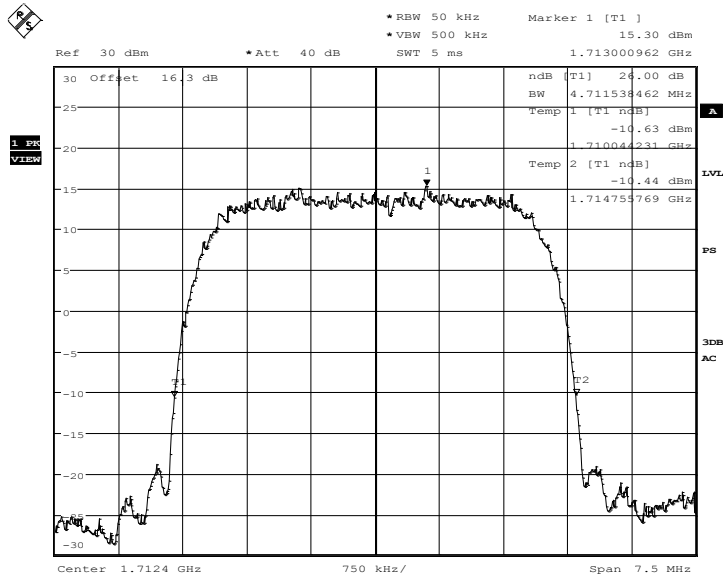
**Diagram 11: Channel 9400**



Date: 29.APR.2017 15:56:10

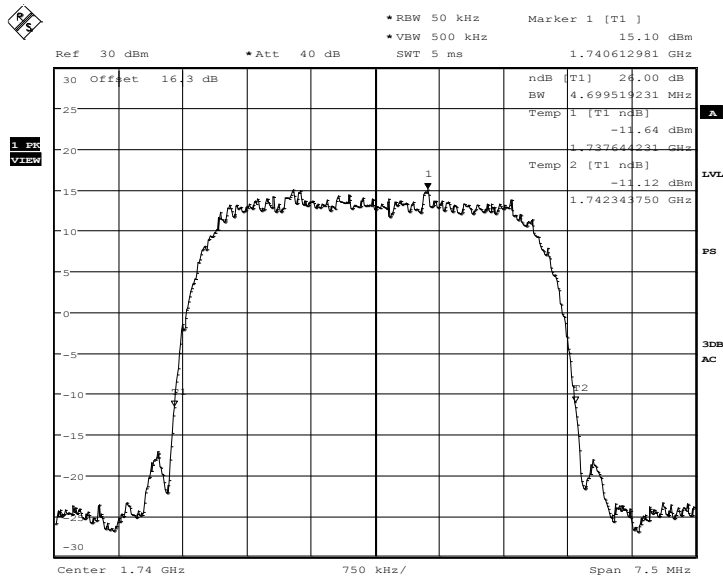
**Diagram 12: Channel 9538**

## 3.10.2. FDD IV TX Mode



Date: 29.APR.2017 17:08:36

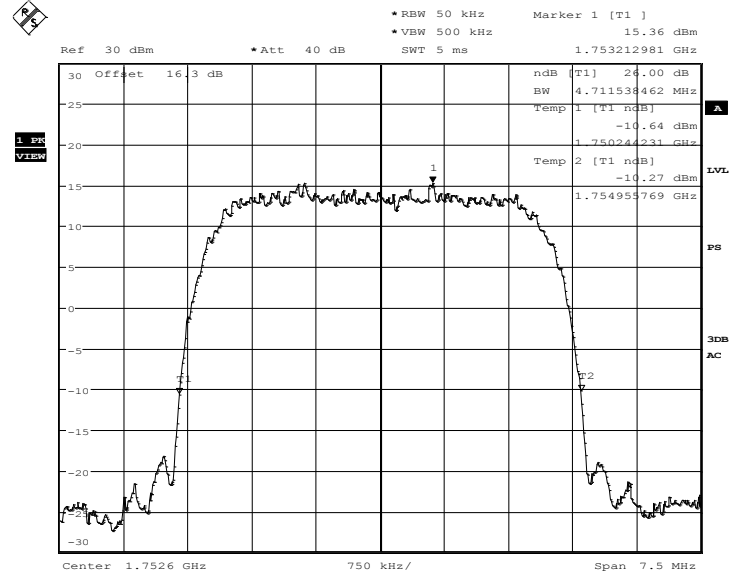
**Diagram 13: Channel 1312**



Date: 29.APR.2017 17:04:58

**Diagram 14: Channel 1450**

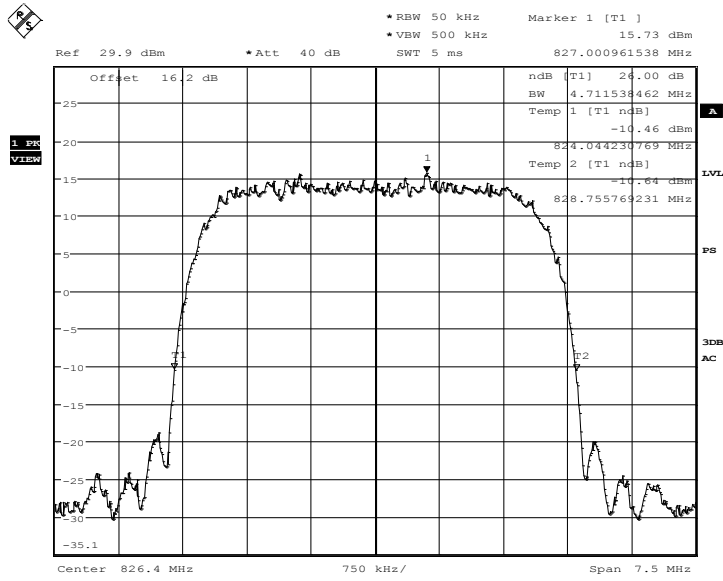
Annex 1 to Test Report 16-1-0050601T41a, Page 69 of 89



Date: 29.APR.2017 17:02:06

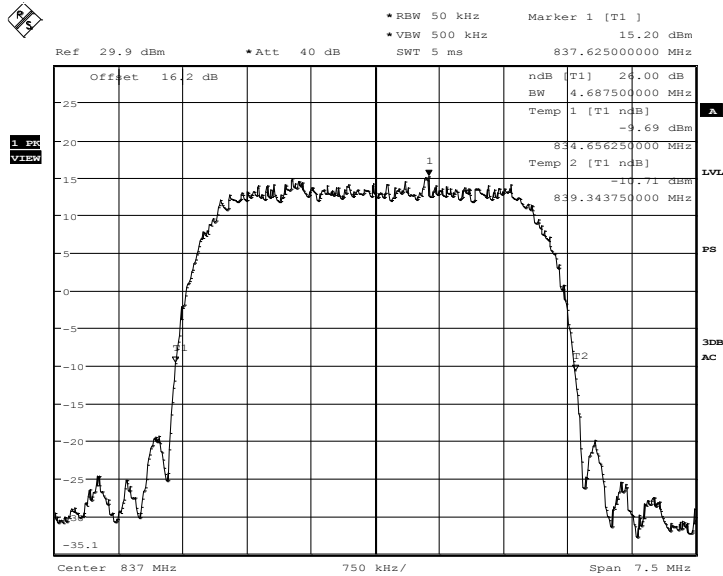
**Diagram 15: Channel 1513**

### 3.10.3. FDD V TX Mode



Date: 29.APR.2017 17:14:45

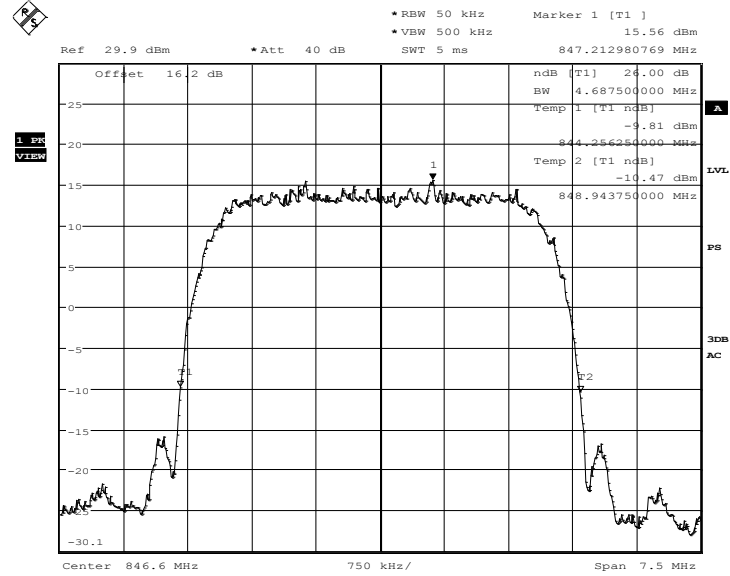
**Diagram 16: Channel 4132**



Date: 29.APR.2017 17:17:17

**Diagram 17: Channel 4185**

Annex 1 to Test Report 16-1-0050601T41a, Page 71 of 89

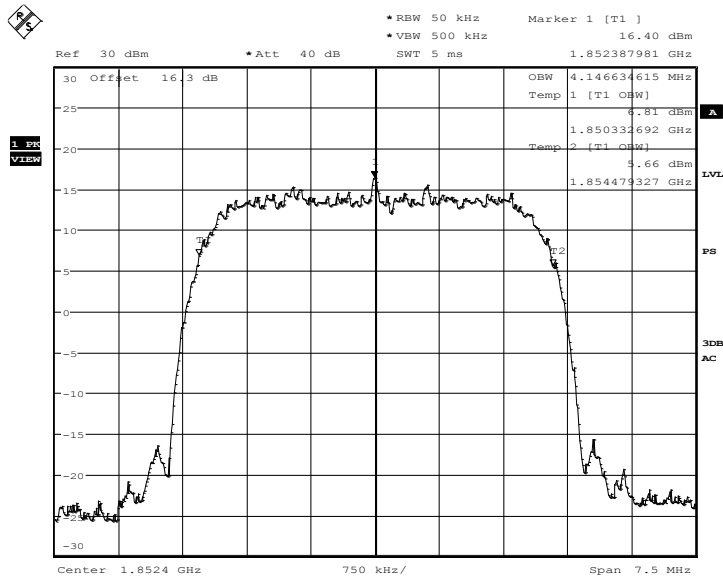


Date: 29.APR.2017 17:19:47

**Diagram 18: Channel 4233**

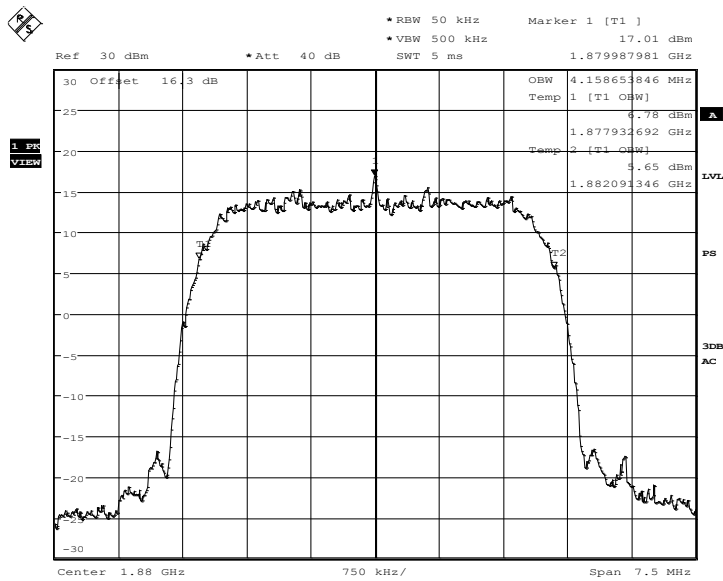
## 3.11. 99% Occupied bandwidth

### 3.11.1. FDD II TX Mode



Date: 29.APR.2017 16:10:44

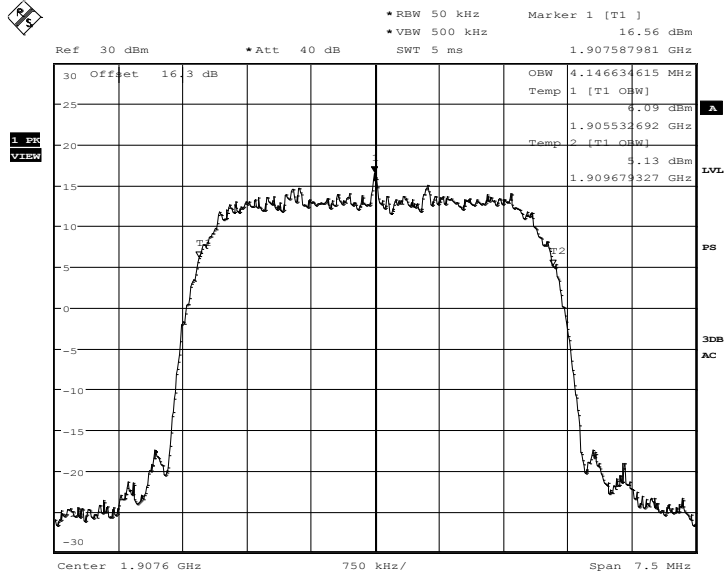
**Diagram 19: Channel 9262**



Date: 29.APR.2017 16:06:18

**Diagram 20: Channel 9400**

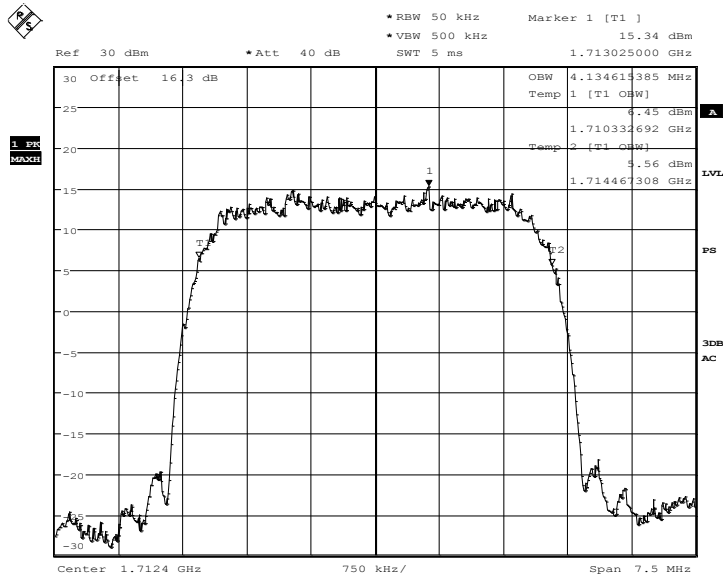




Date: 29.APR.2017 16:01:42

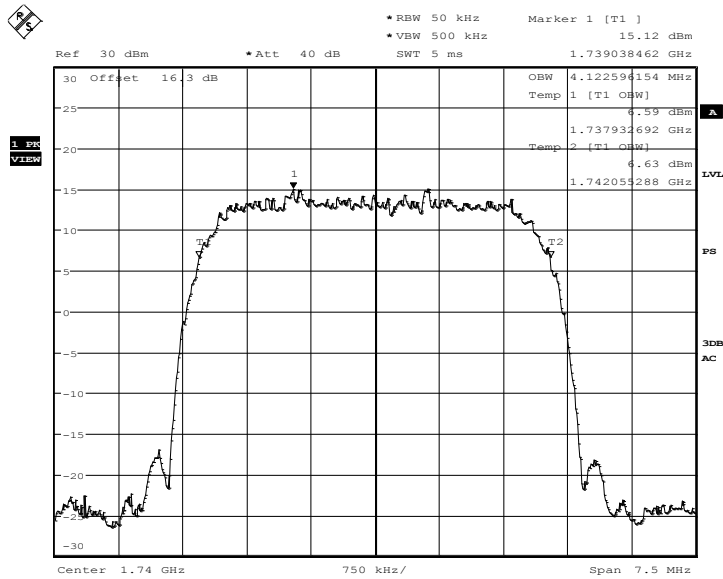
**Diagram 21: Channel 9538**

## 3.11.2. FDD IV TX Mode



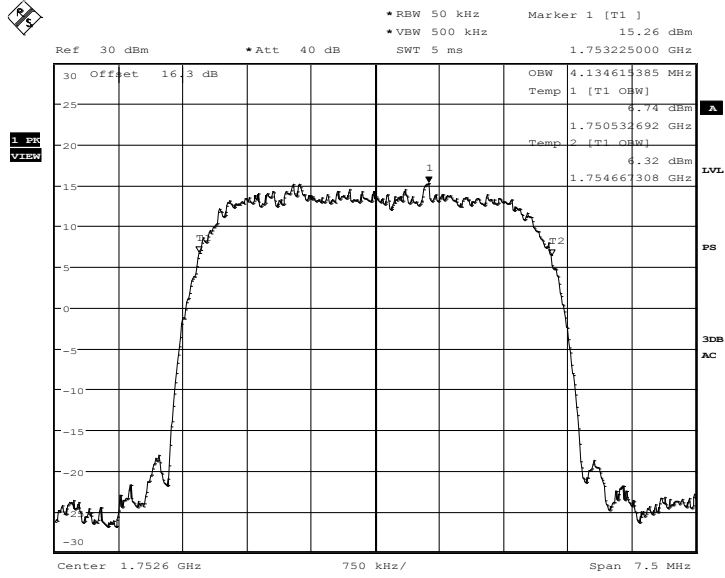
Date: 29.APR.2017 16:45:40

**Diagram 22: Channel 1312**



Date: 29.APR.2017 16:51:18

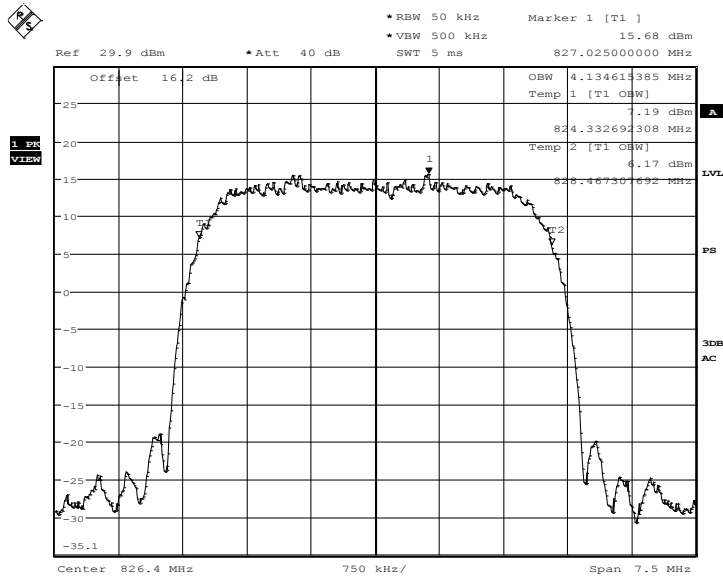
**Diagram 23: Channel 1450**



Date: 29.APR.2017 16:55:56

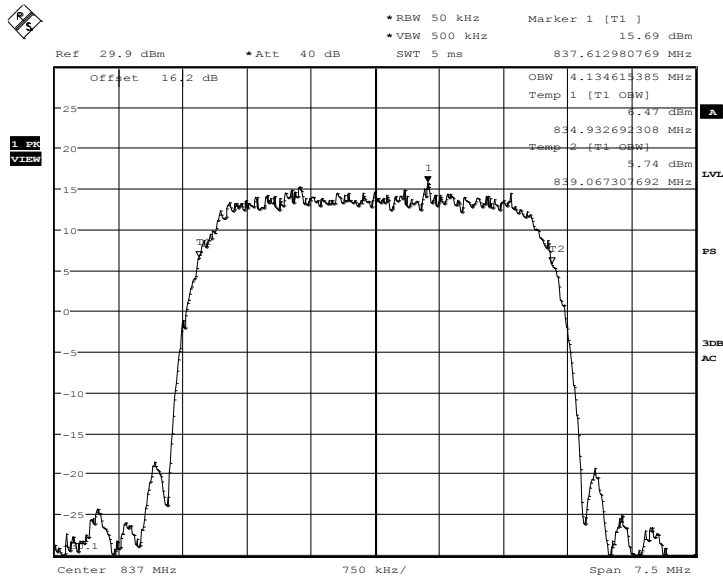
**Diagram 24: Channel 1513**

### 3.11.3. FDD V TX Mode



Date: 29.APR.2017 17:32:26

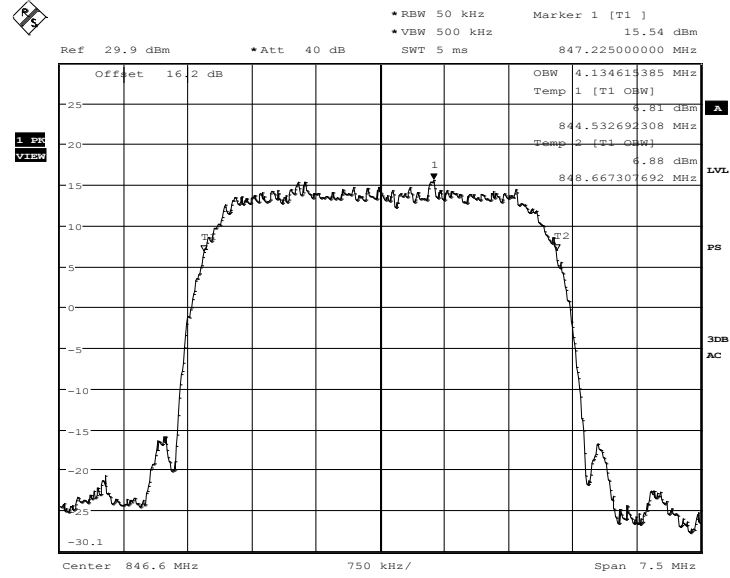
**Diagram 25: Channel 4132**



Date: 29.APR.2017 17:28:39

**Diagram 26: Channel 4185**

Annex 1 to Test Report 16-1-0050601T41a, Page 77 of 89



Date: 29.APR.2017 17:24:44

**Diagram 27: Channel 4233**

### 3.12. Spurious emissions conducted on FDD Band II

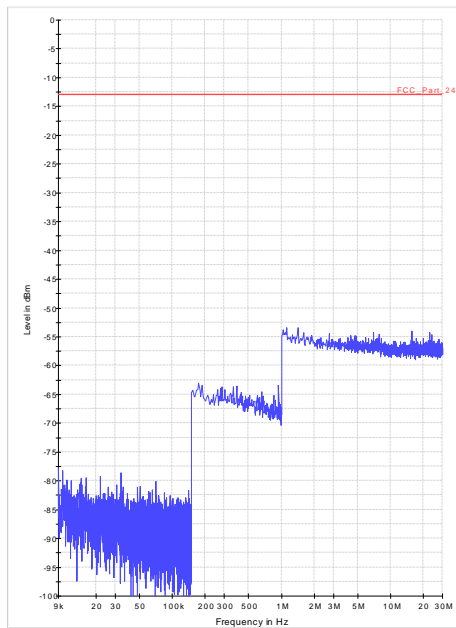


Diagram 36.60: Channel 9262 - Sweep 1

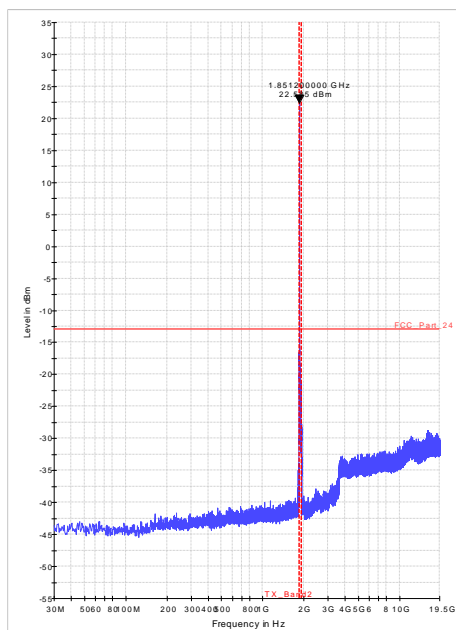
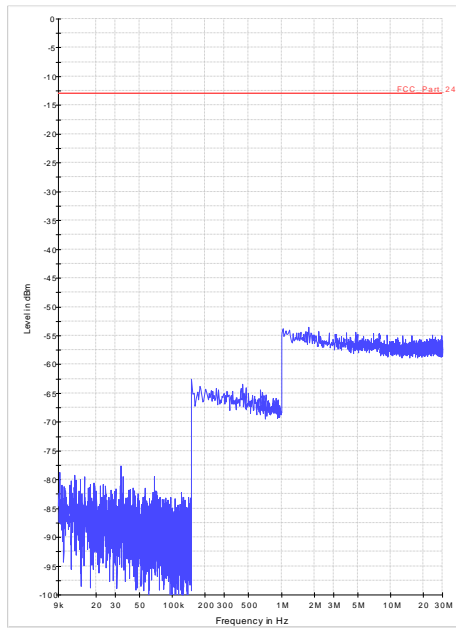
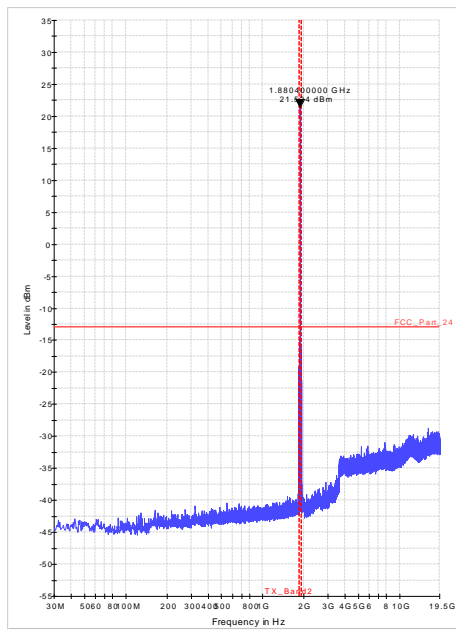


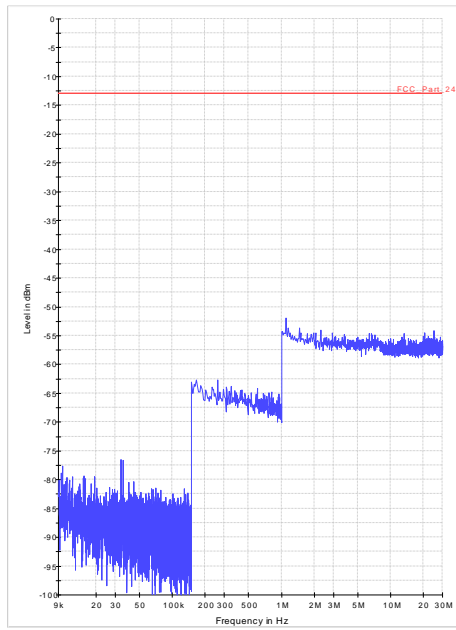
Diagram 36.61: Channel 9262 - Sweep 2



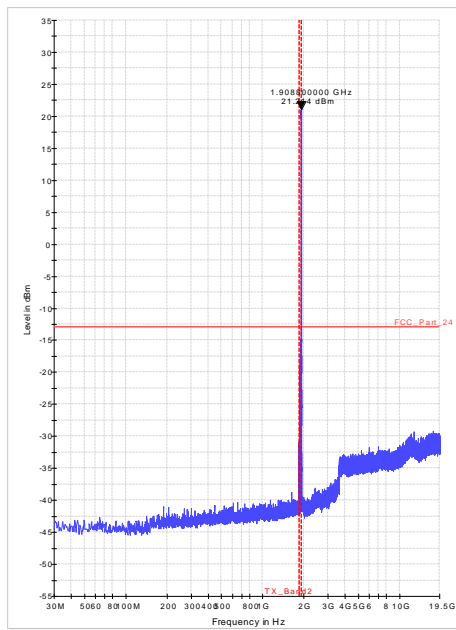
**Diagram 36.62: Channel 9400 – Sweep 1**



**Diagram 36.63: Channel 9400 – Sweep 2**



**Diagram 36.64: Channel 9538 - Sweep 1**



**Diagram 36.65: Channel 9538 - Sweep 2**



### 3.13. Spurious emissions conducted on FDD Band IV

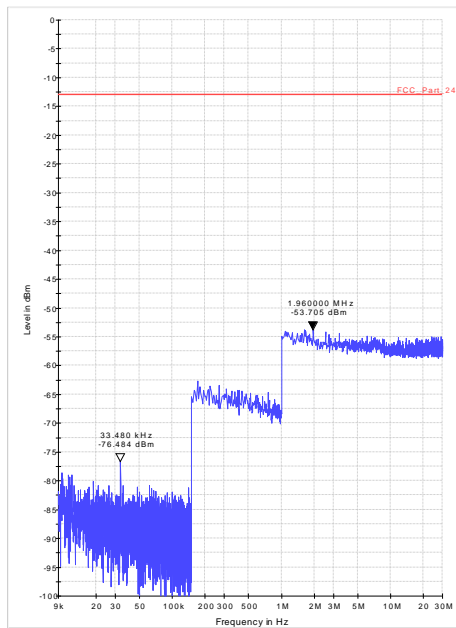


Diagram 36.70: Channel 1312 – Sweep 1

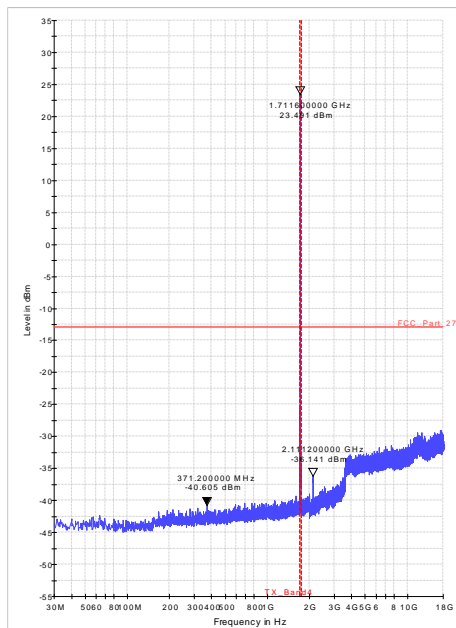
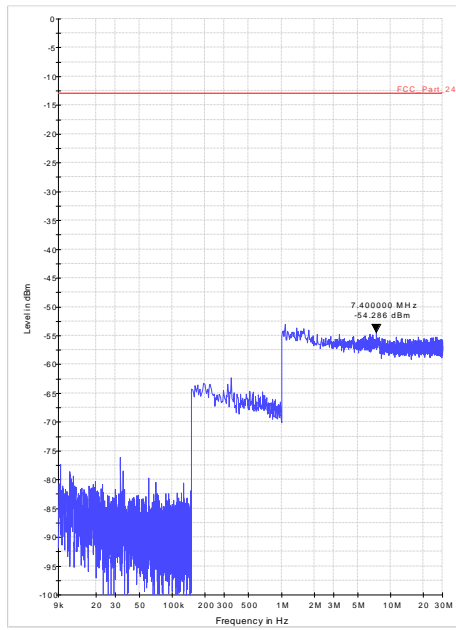
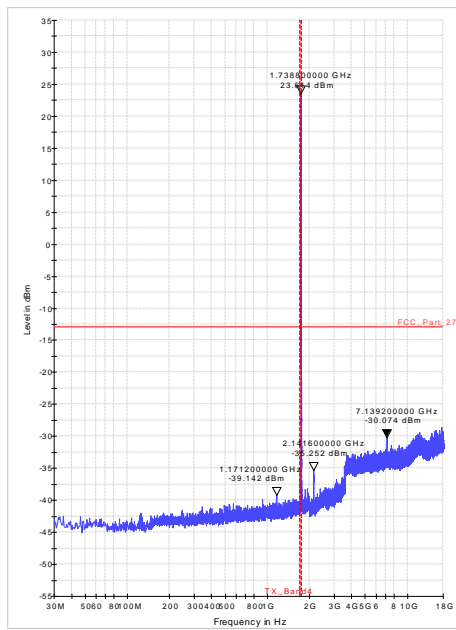


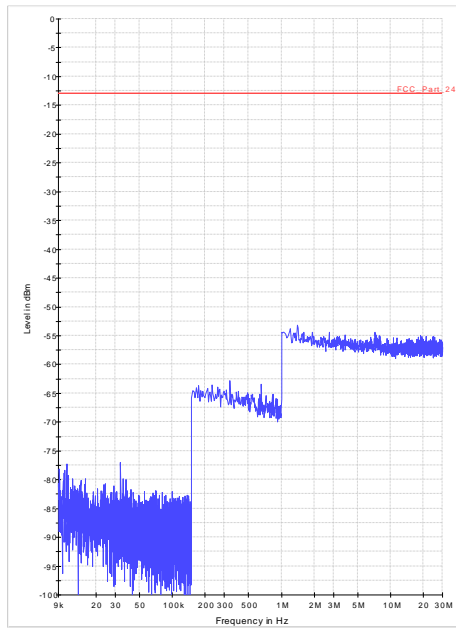
Diagram 36.71: Channel 1312 – Sweep 2



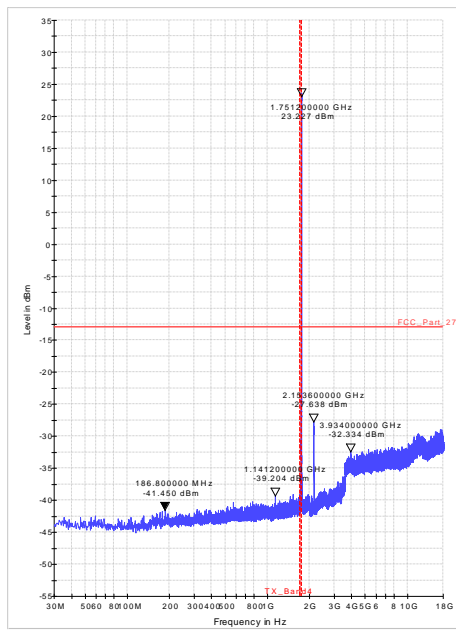
**Diagram 36.72: Channel 1450 – Sweep 1**



**Diagram 36.73: Channel 1450 – Sweep 2**



**Diagram 36.74: Channel 1513 – Sweep 1**



**Diagram 36.75: Channel 1513 – Sweep 2**

### 3.14. Spurious emissions conducted on FDD Band V

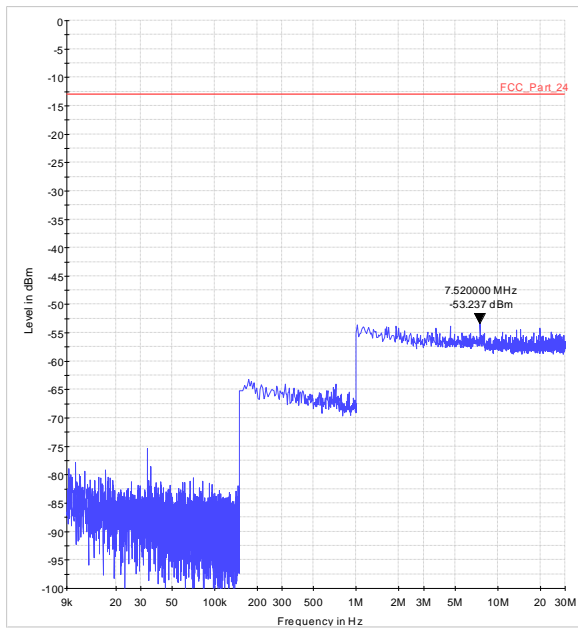


Diagram 36.40: Channel 4132 – Sweep 1

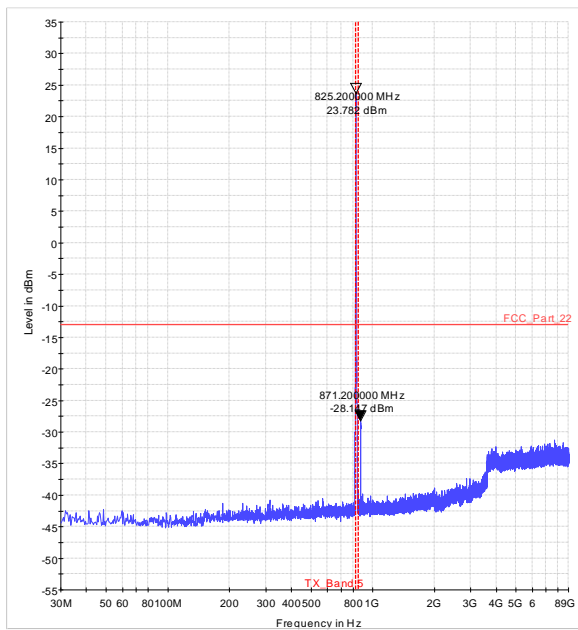
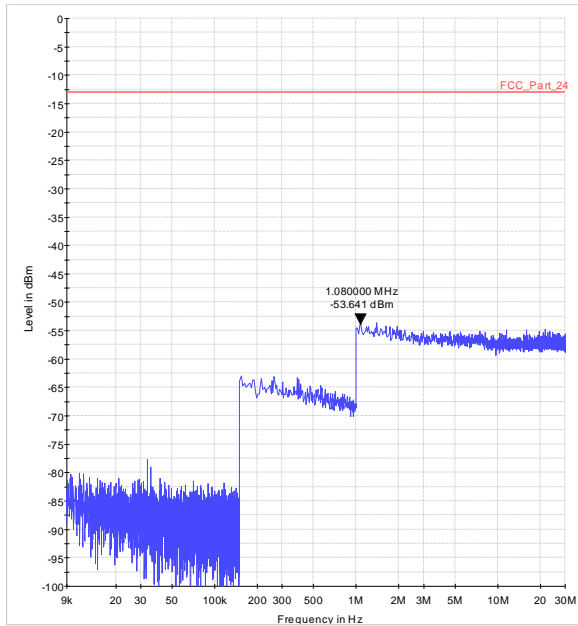
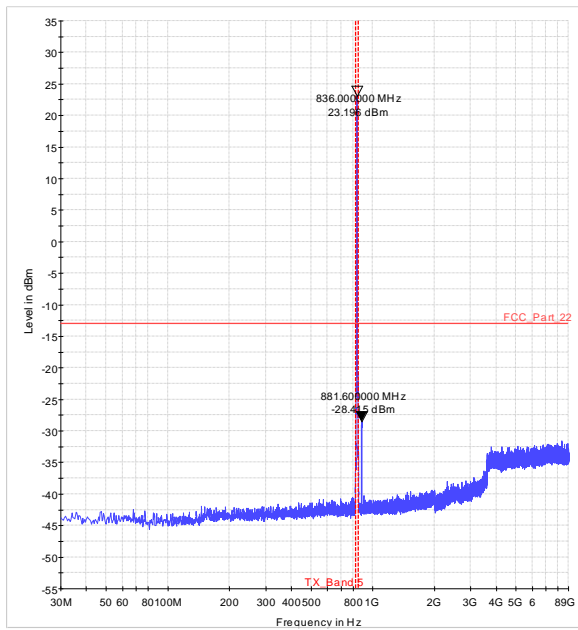


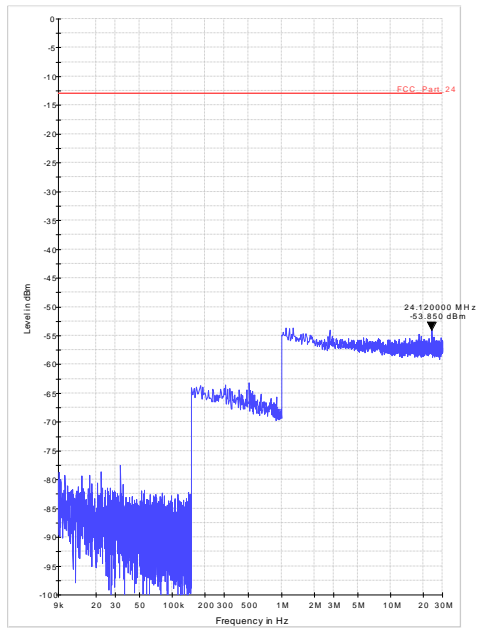
Diagram 36.41: Channel 4132 – Sweep 2



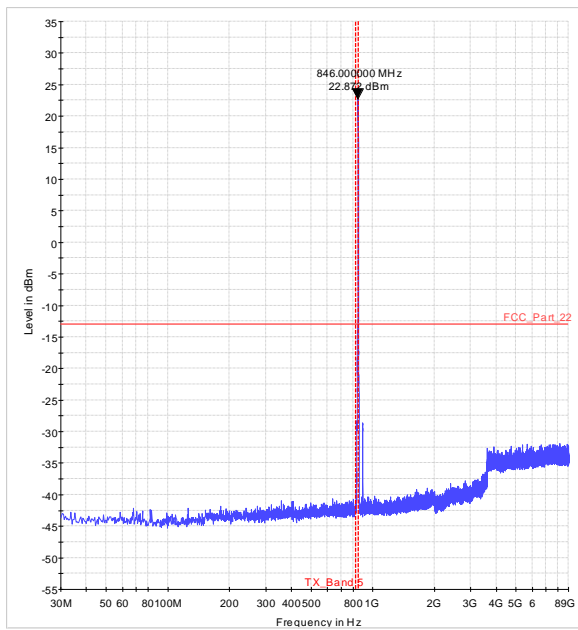
**Diagram 36.42: Channel 4185 – Sweep 1**



**Diagram 36.43: Channel 4185 – Sweep2**

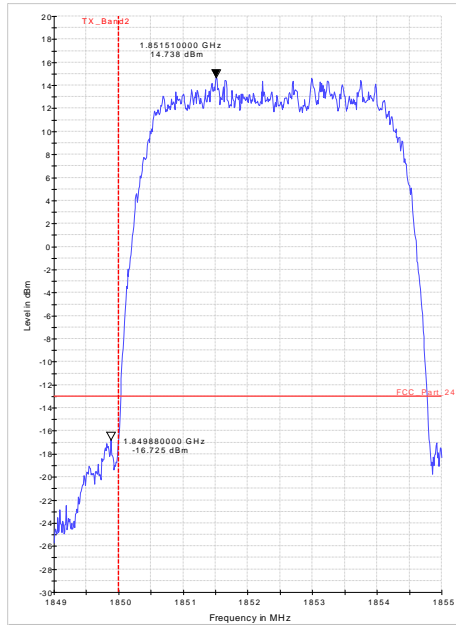


**Diagram 36.44: Channel 4233 – Sweep 1**

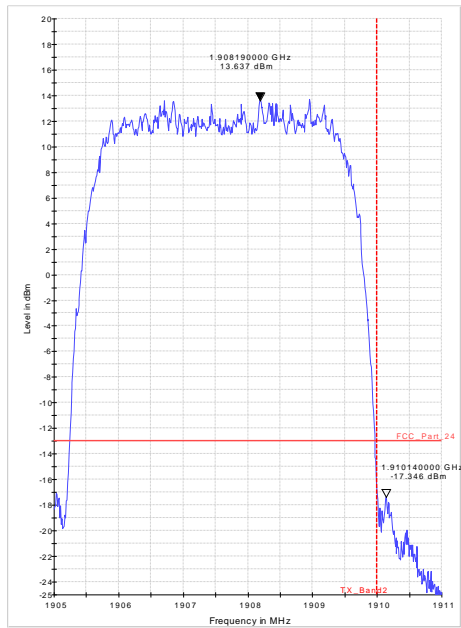


**Diagram 36.45: Channel 4233 – Sweep2**

**3.15. Conducted emissions on FDD Band II band-edge**



**Diagram 37.60: Channel 9262**



**Diagram 37.61: Channel 9538**

### 3.16. Conducted emissions on FDD Band IV band-edge

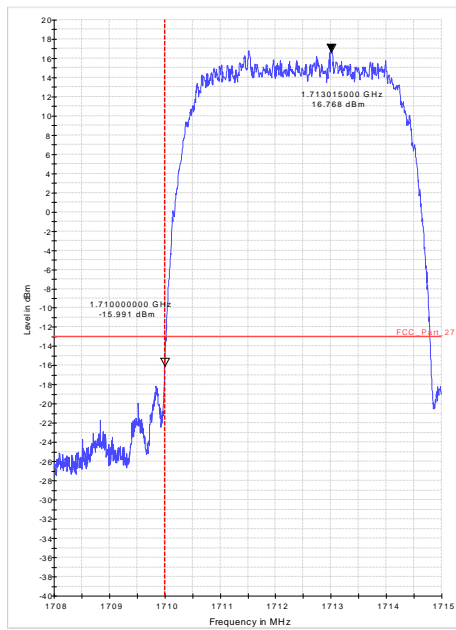


Diagram 37.70: Channel 1312

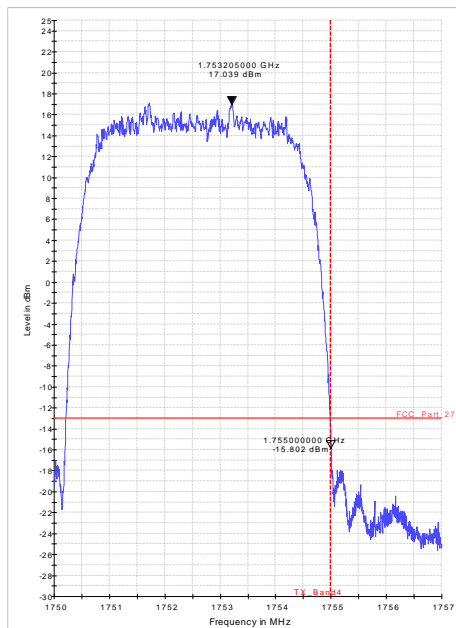
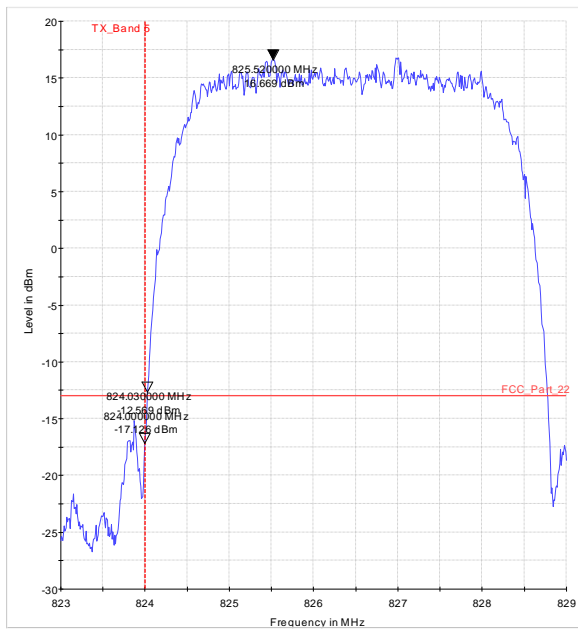


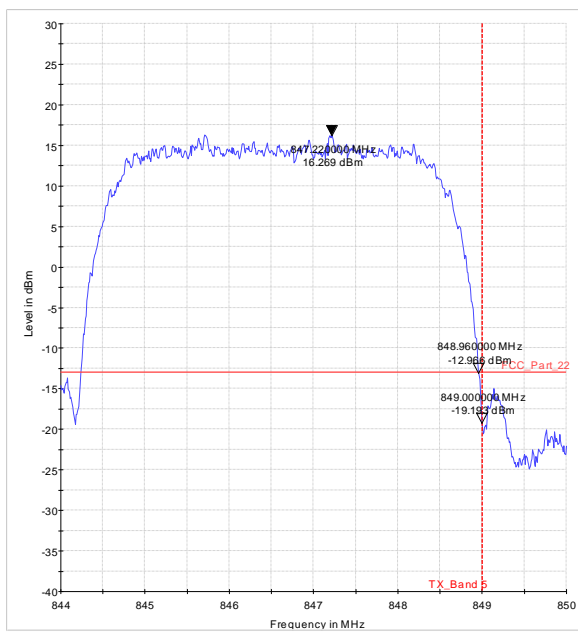
Diagram 37.71: Channel 1513



**3.17. Conducted emissions on FDD Band V band-edge**



**Diagram 37.40: Channel 4132**



**Diagram 37.41: Channel 4233**