

Annex 1: Measurement diagrams to TEST REPORT No.: 16-1-0001901T23a

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

IC-Regulations
RSS-132 Issue 3, RSS-133 Issue 6,
RSS-Gen Issue 4

for

Peiker acoustic GmbH

Telematic Device
ATM-02-US-R1

FCC: QWY-ATM2_R-11
ISED: 6588A-ATM2R11
PMN: ATM 02 Roof version
HVIN: ATM-02-US-R1

Laboratory Accreditation and Listings			
 Deutsche Akkreditierungsstelle D-PL-12047-01-01	 FEDERAL COMMUNICATIONS COMMISSION USA MRA US-EU 0003	 Industry Canada Reg. No.: 3462D-2 Reg. No.: 3462D-3	 Voluntary Controls for Electromagnetic Emissions Reg. No.: R-2666 C-2914, T-1967, G-301
 AUTHORIZED RF LABORATORY	 Authorized TM Test Lab Lab Code: 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
CETECOM GmbH Laboratory Radio Communications & 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			

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1. Measurement diagrams

1.1. Peak power output and PAPR-Value

1.1.1. FDD Band II

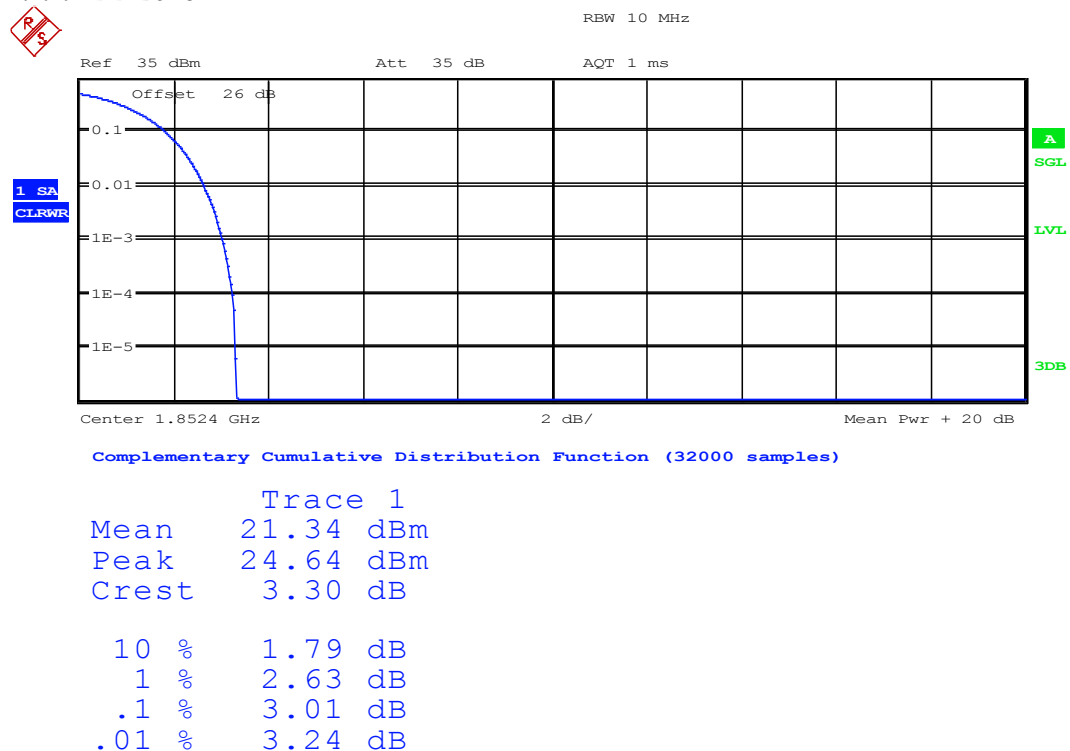


Diagram CCDF_Ch_9262

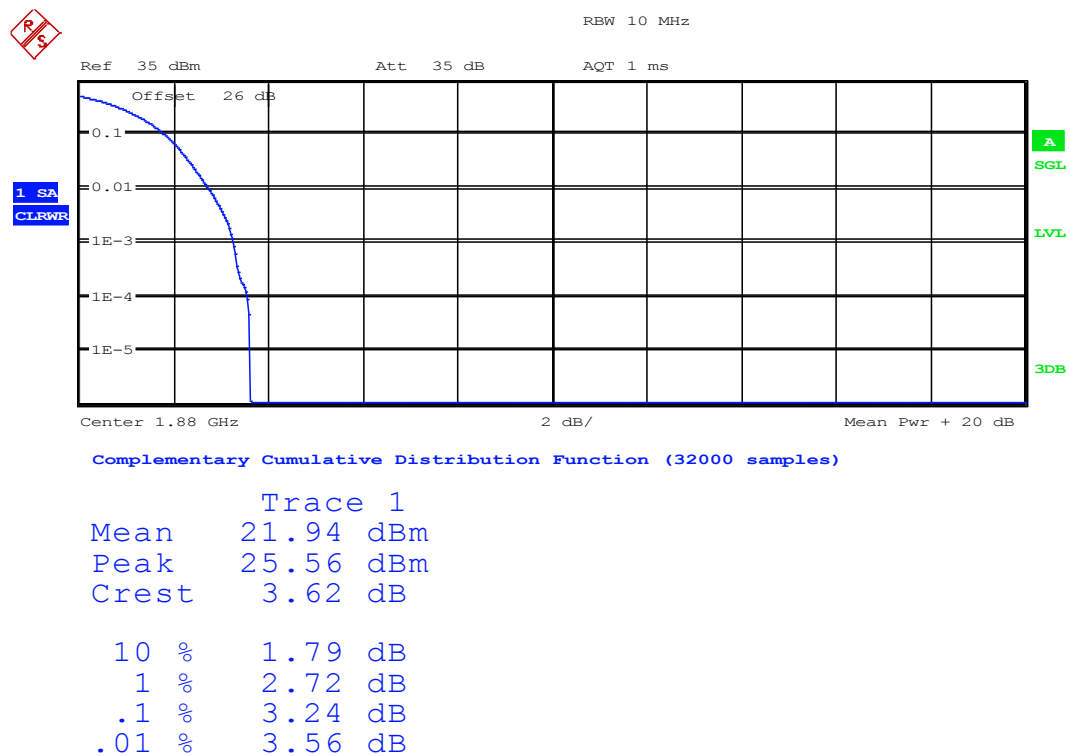


Diagram CCDF_Ch_9400

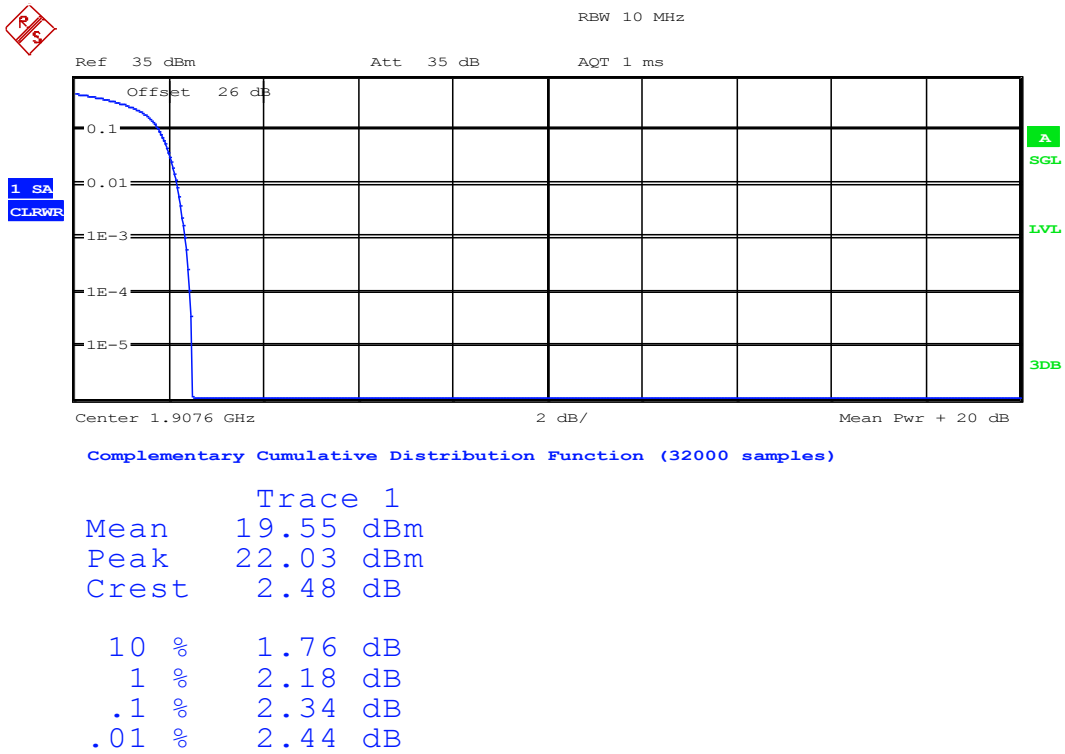


Diagram CCDF_Ch_9538

1.1.2. FDD Band IV

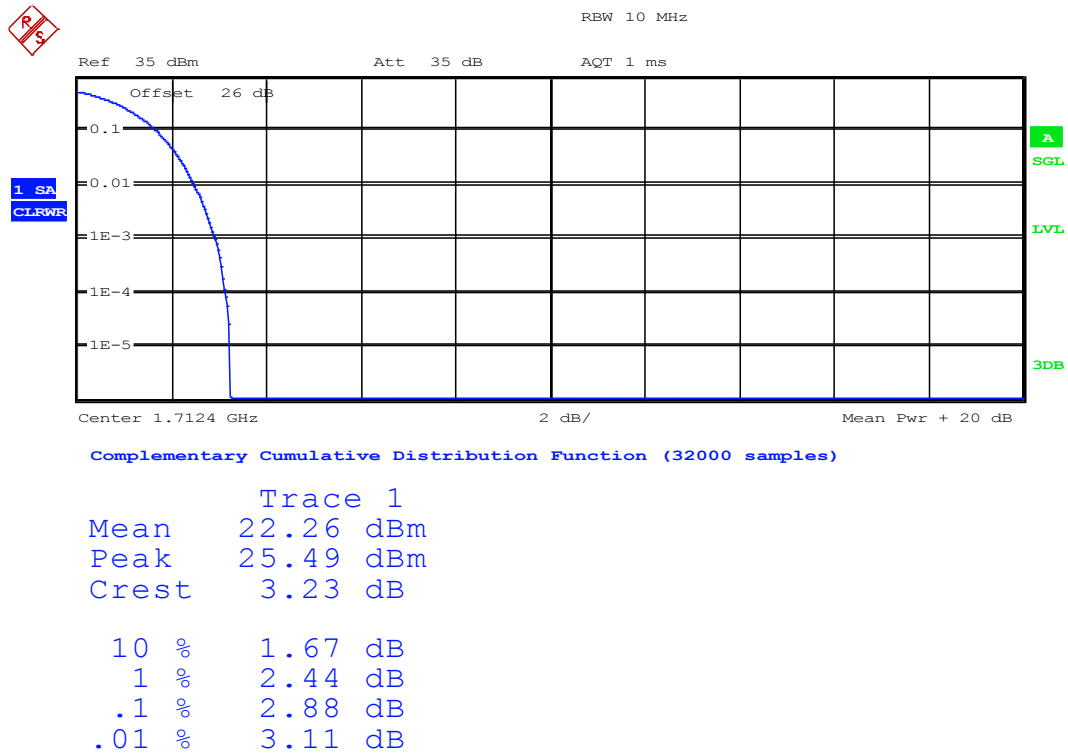


Diagram CCDF_Ch_1312

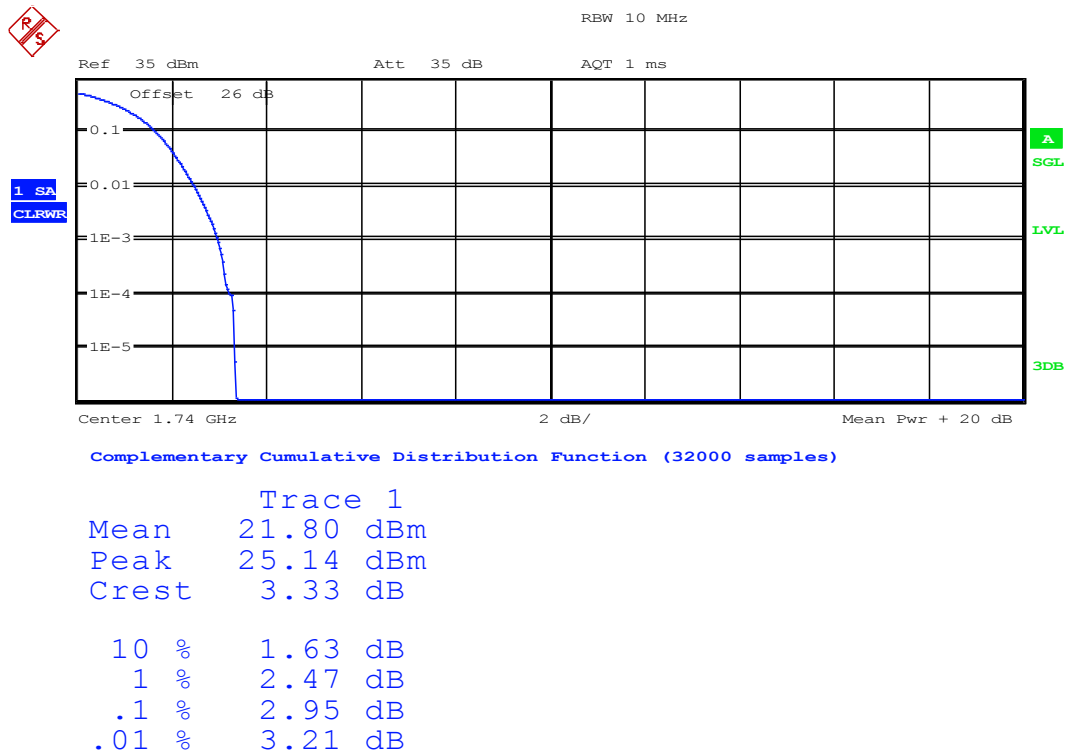


Diagram CCDF_Ch_1450

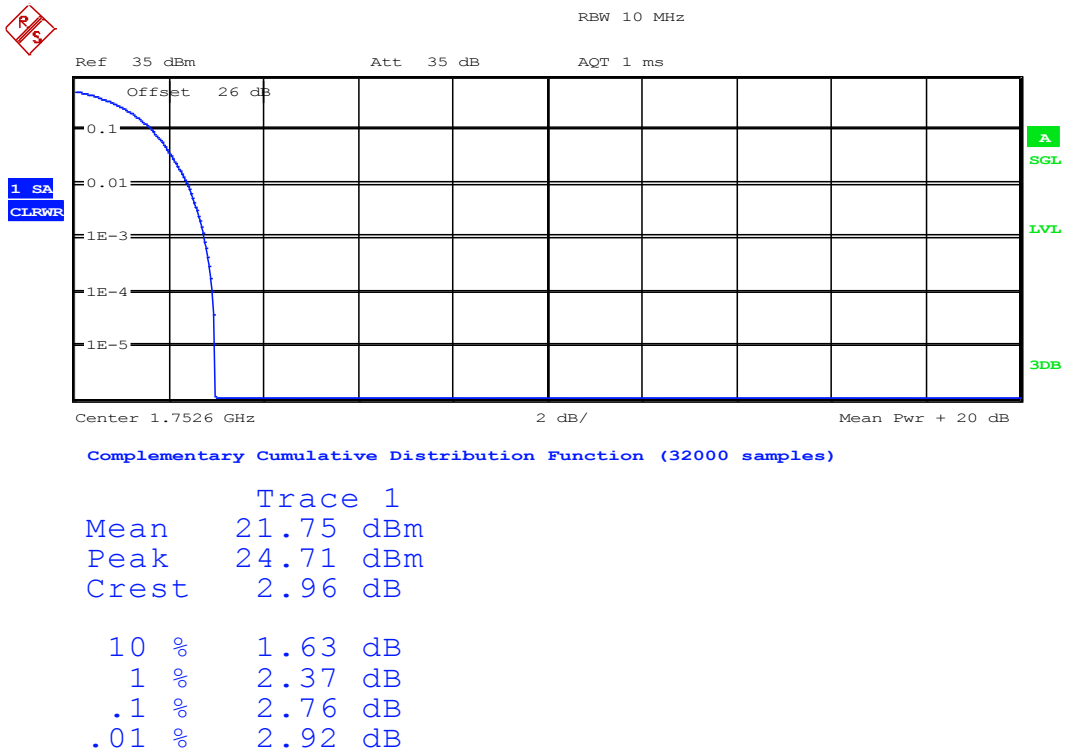


Diagram CCDF_Ch_1513

1.1.3. FDD Band 5

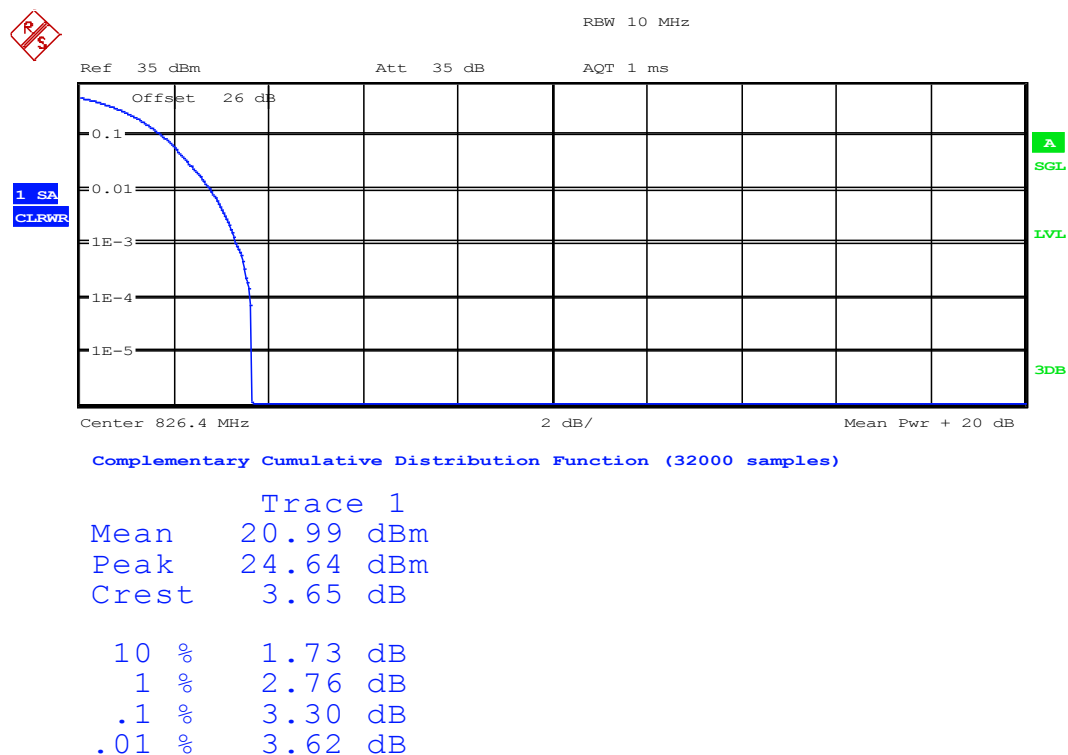


Diagram CCDF_Ch_4132

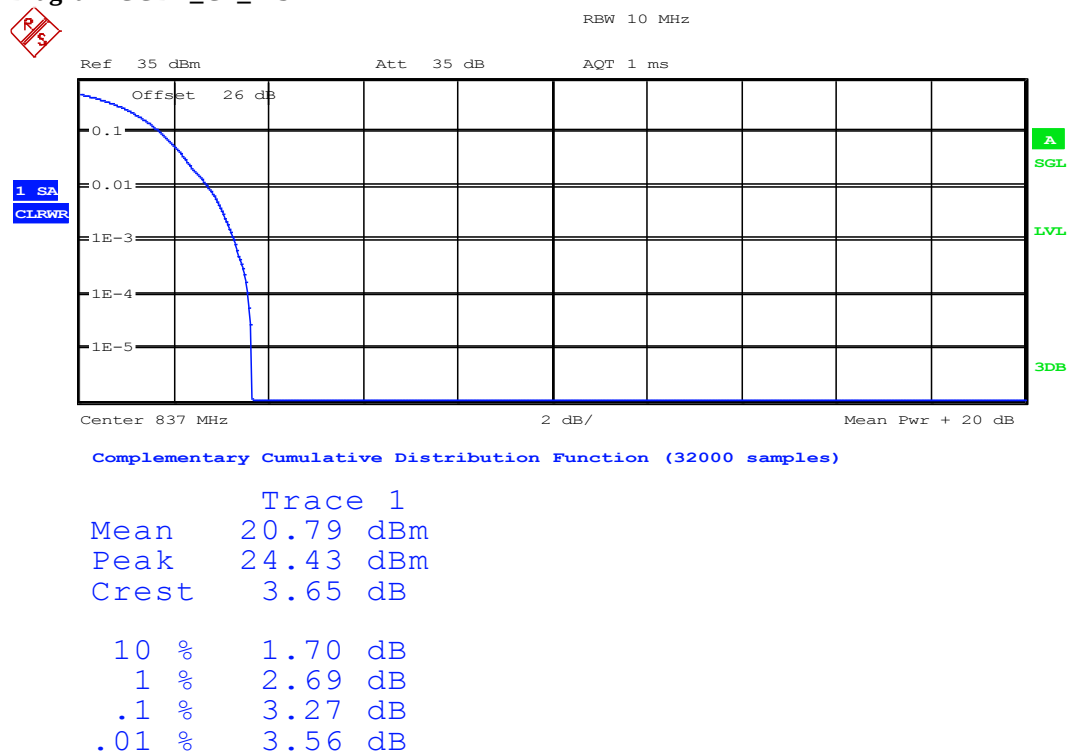


Diagram CCDF_Ch_4185

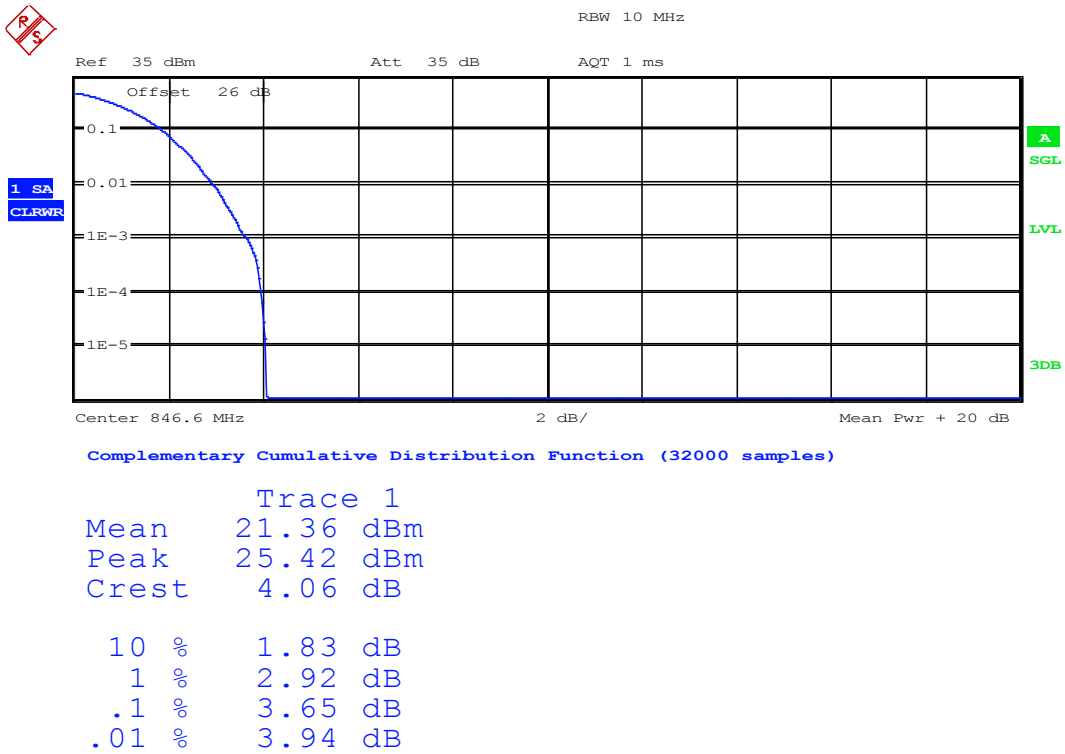


Diagram CCDF_Ch_4233

1.2. Magnetic field emissions radiated (FDD Band II,IV and V transmitting mode)

2.01a_UMTS_FDDII_CH9538_Laying

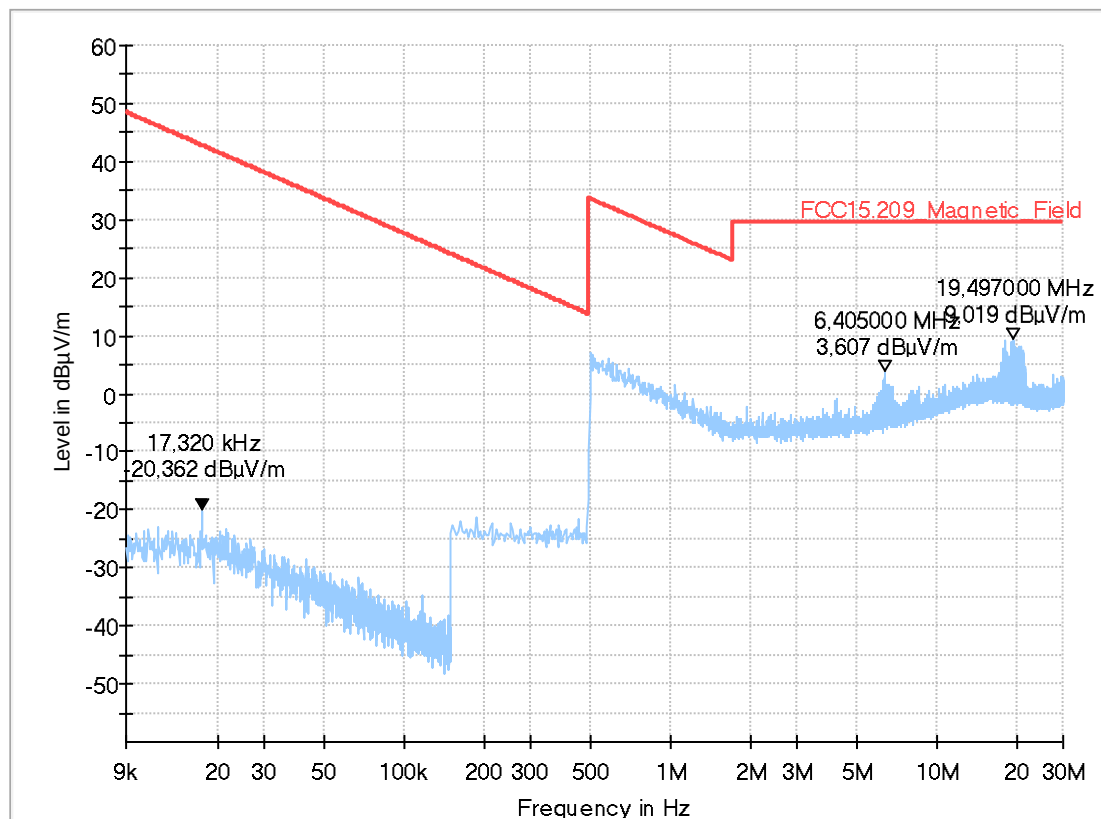
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300m distance
Operating Conditions:	UMTS_Band:2_CH:9538
Operator Name:	TFr
Comment:	EUT Laying

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



2.01b_UMTS_FDDII_CH9538_Standing

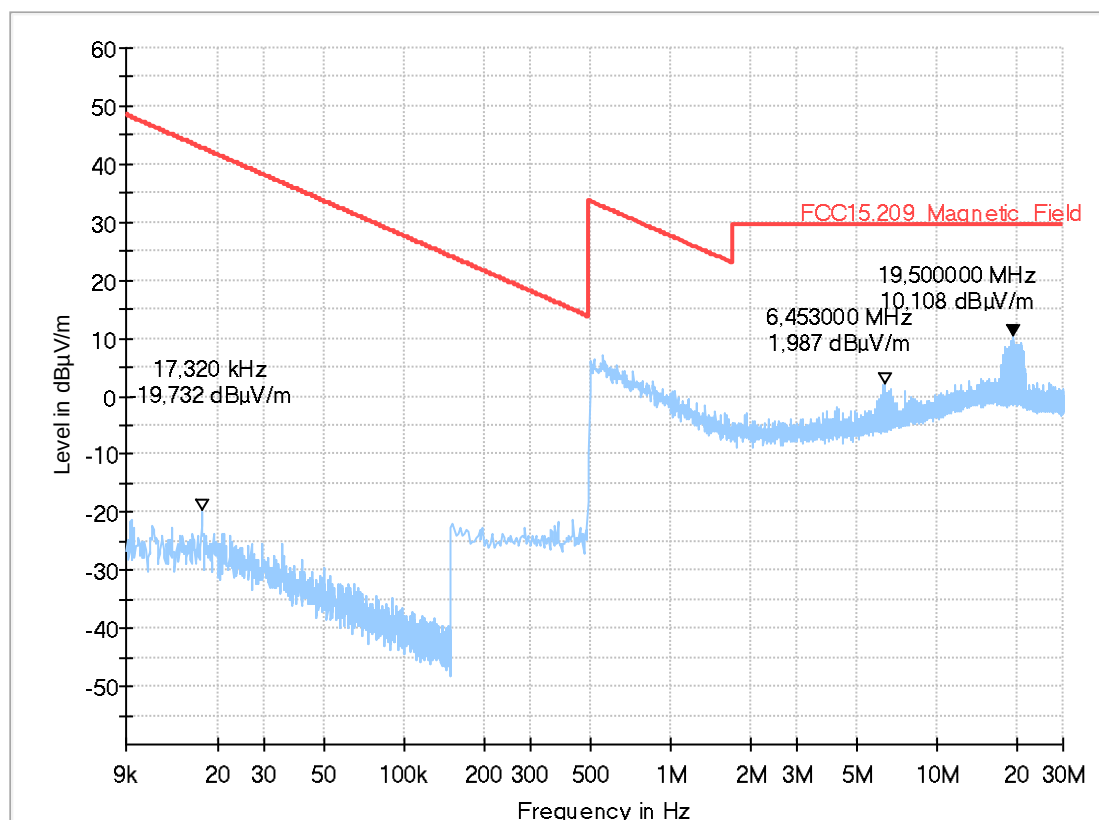
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300m distance
Operating Conditions:	UMTS_Band:2_CH:9538
Operator Name:	HEI
Comment:	EUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



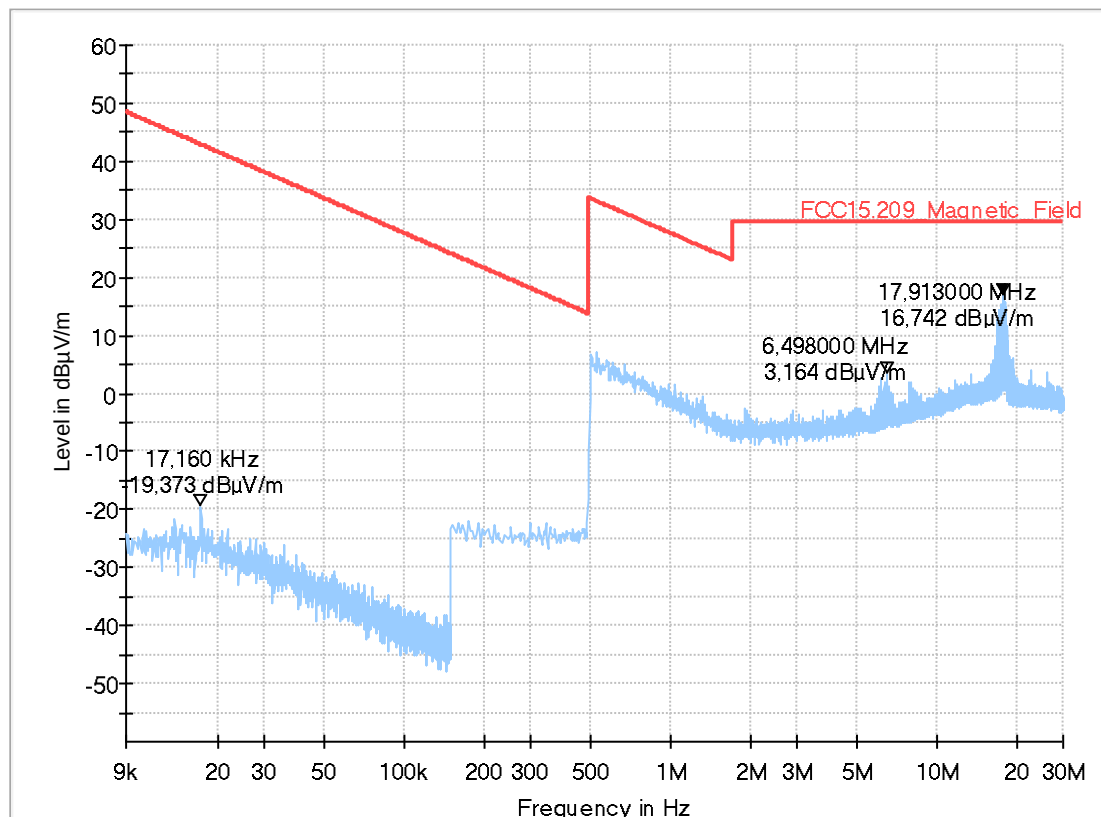
2.02a_UMTS_FDDIV_CH1450standing

Test description:	Date: 30.12.2017 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
Operator:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating conditions:	HEI
Power during tests:	Humidity: 48%rH; Temperature: 20°C
Comment 1:	12V DC
Comment 2:	Channel 1450,UMTS_Band:5
	Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



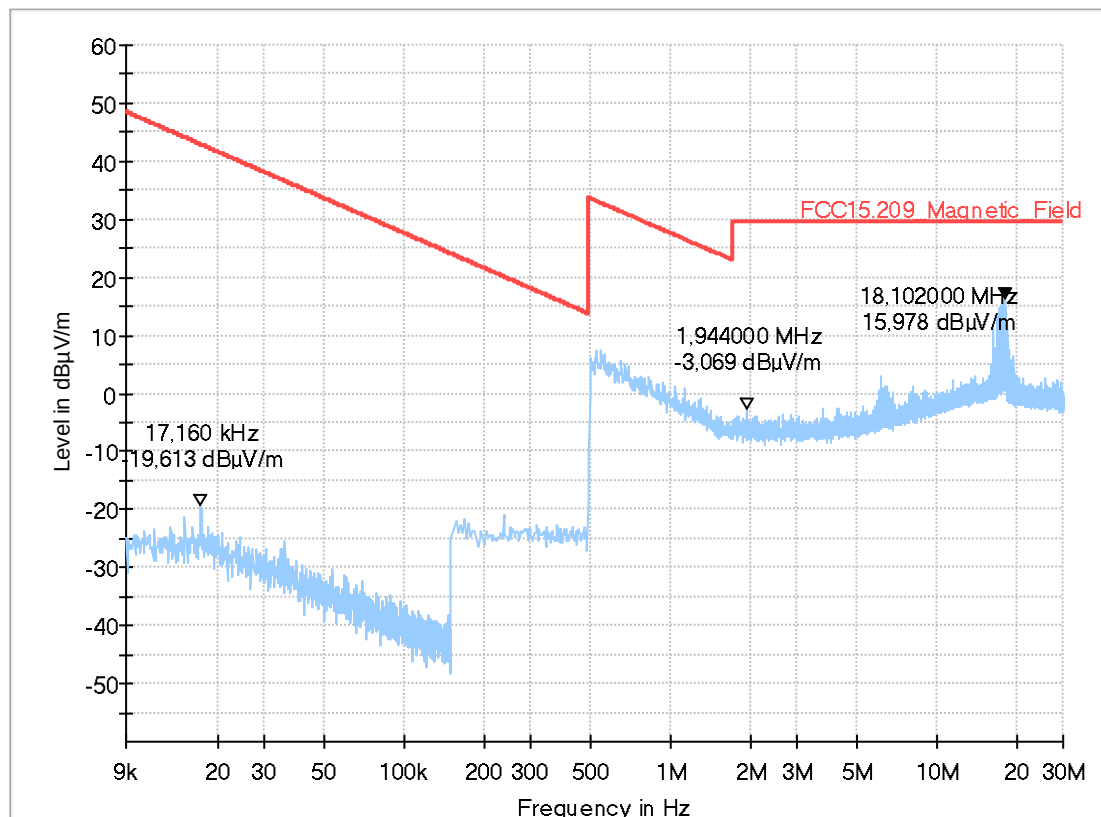
2.02b_UMTS_FDDIV_CH1450laying

Test description:	Date: 30.12.2017 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
Operator:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating conditions:	HEI
Power during tests:	Humidity: 48%rH; Temperature: 20°C
Comment 1:	12V DC
Comment 2:	Channel1450,UMTS_Band:5
	laying

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



2.03a_UMTS_FDDV_CH4233_Laying

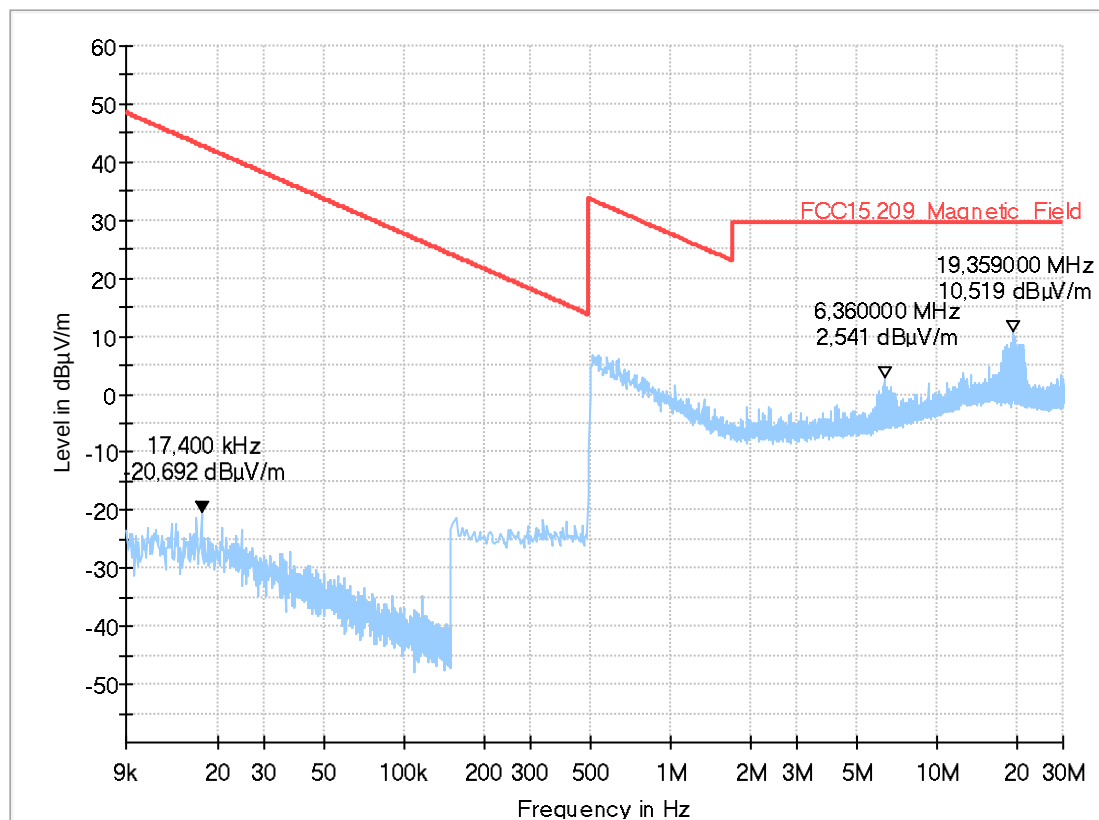
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300m distance
Operating Conditions:	UMTS_Band:2_CH:9538
Operator Name:	TFr
Comment:	EUT Laying

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



2.03b_UMTS_FDDV_CH4233_Standing

Common Information

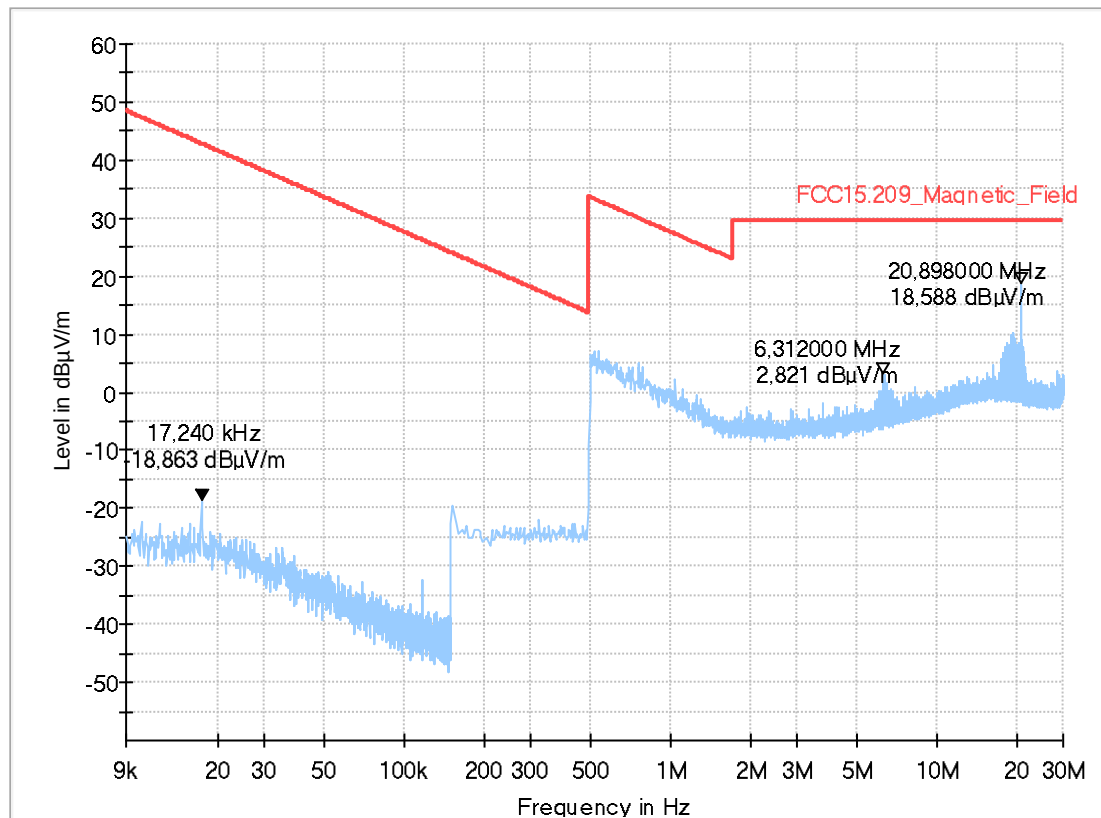
Test Description:	Magnetic Field Strength Measurement related to 30/300m distance
Operating Conditions:	UMTS_Band:2_CH:9538
Operator Name:	TFR
Comment:	EUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)

HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.3. Spurious emissions radiated (FDD Band II transmitting mode)

1.3.1. Radiated emissions on FDD Band II - Main Antenna

8.01_UMTS_FDDII_CH9538

Common Information

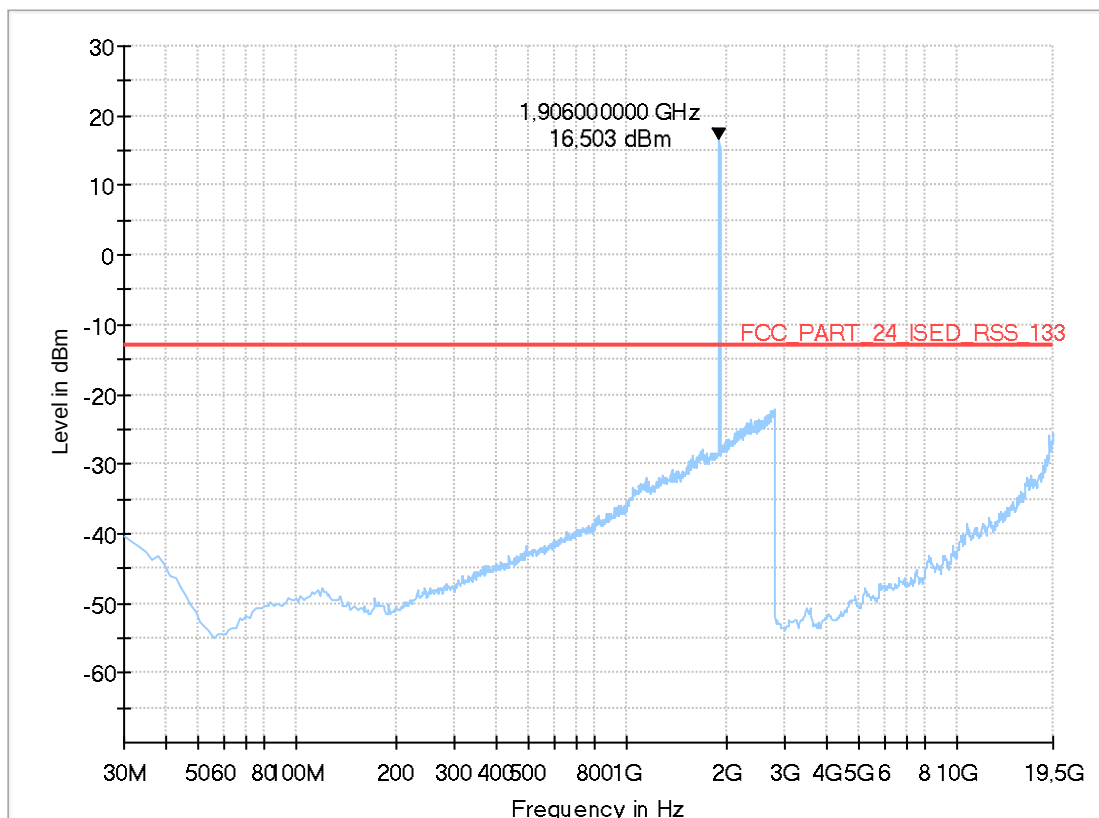
Test Description:	Radiated emission related to 1m
Test Site:	FAR
Test Standard:	FCC FCC Part 24.238 Broadband PCS
Antenna polarisation:	vertical / horizontal
Environmental Conditions:	Humidity: 50%rH; Temperature: 20°C
Operation mode:	UMTS_Band 2_CH:9538
Operator Name:	HEI

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)

HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.3.2. Radiated emissions on FDD Band II- Backup Antenna

8.01b_UMTS_FDDII_CH9262

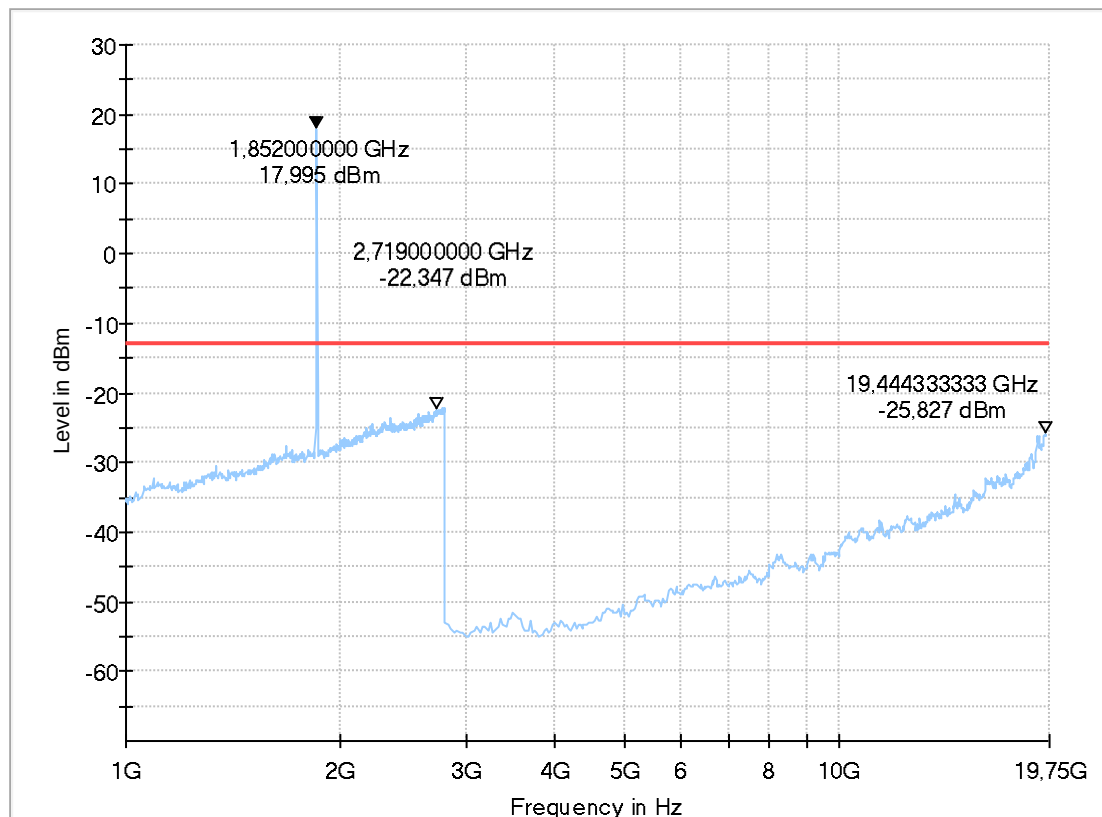
Common Information

Test Description:	Radiated emission related to 1m
Test Site:	FAR
Test Standard:	FCC FCC Part 24.238 Broadband PCS
Antenna polarisation:	vertical / horizontal
EUT:	ATM02 USR1
Manufacturer:	
Operation mode:	UMTSFDDII CH. 9262
Operator Name:	Mah
Comment:	

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.4. Spurious emissions radiated (FDD Band IV transmitting mode)

1.4.1. Radiated emissions on FDD Band IV - Main Antenna

8.02_UMTS_FDDIV_CH1450

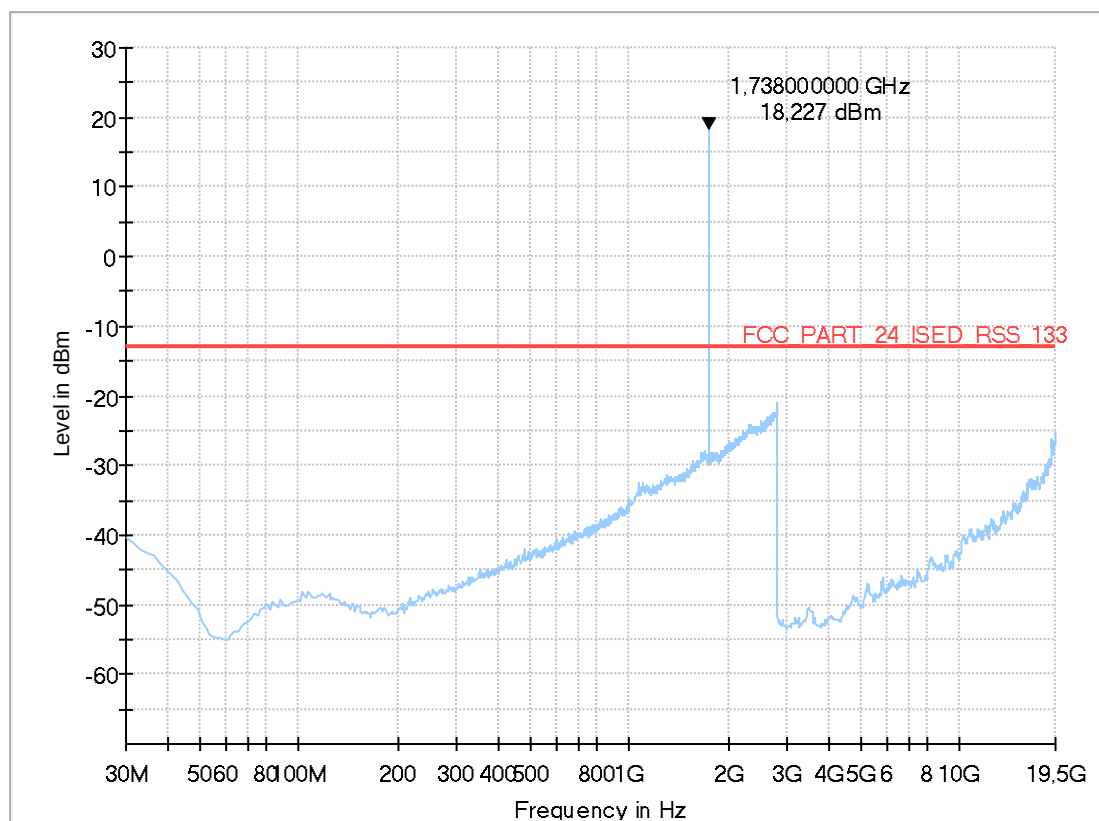
Common Information

Test Description:	Radiated emission related to 1m
Test Site:	FAR
Test Standard:	FCC FCC Part 24.238 Broadband PCS
Antenna polarisation:	vertical / horizontal
Operation mode:	UMTS FDD IV Channel 1450
Operator Name:	SLo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.4.2. Radiated emissions on FDD Band IV - Backup Antenna '8.02b_UMTS_FDDIV_CH1312Ch

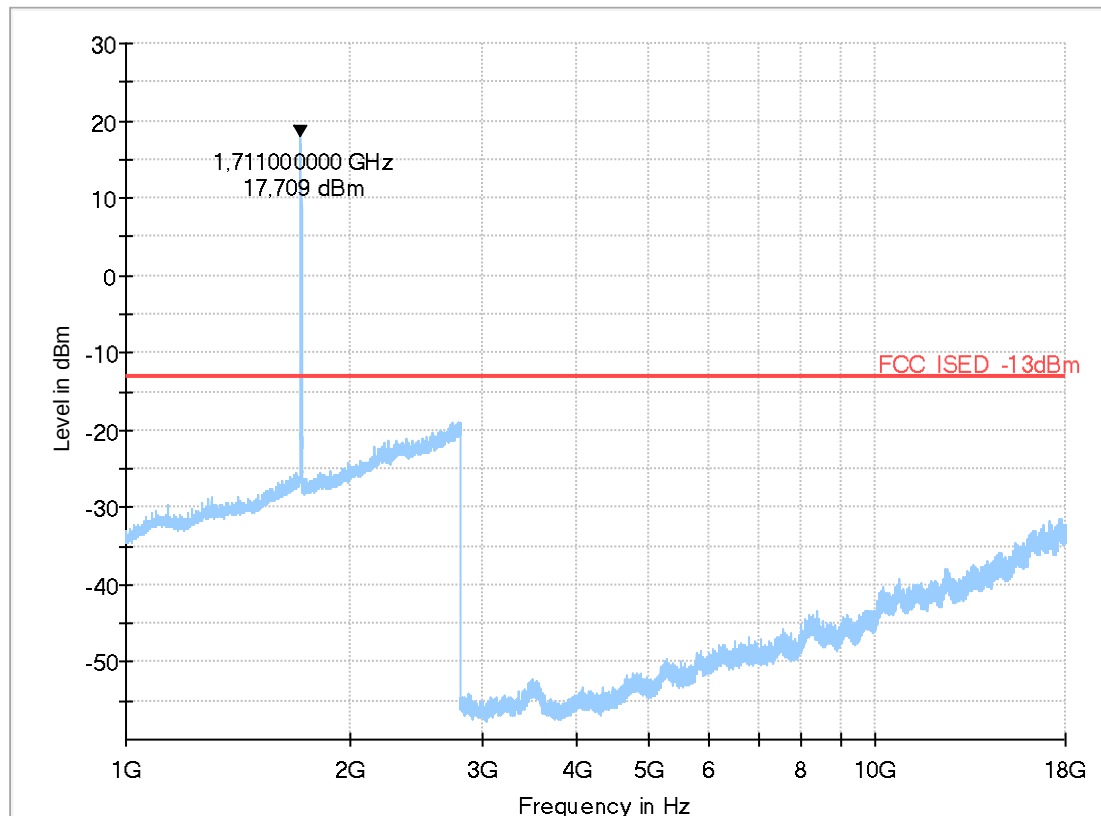
Common Information

Test Description:	Radiated emission
Test Site:	Fully-Anechoic Room
Test Standard:	FCC FCC Part 27.53(h) AWS emission limits / RSS-139, Issue 3
Antenna polarisation:	vertical / horizontal
Measurement software version	EMC32 V9.26.0
Operation mode:	LTE Band 4, channel no= BW= RB= Modulation=
Operator Name:	
Comment:	

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.5. Spurious emissions radiated (FDD Band V transmitting mode)

1.5.1. Radiated emissions on FDD Band V - Main Antenna

'8.03_UMTS_FDDV_CH4233

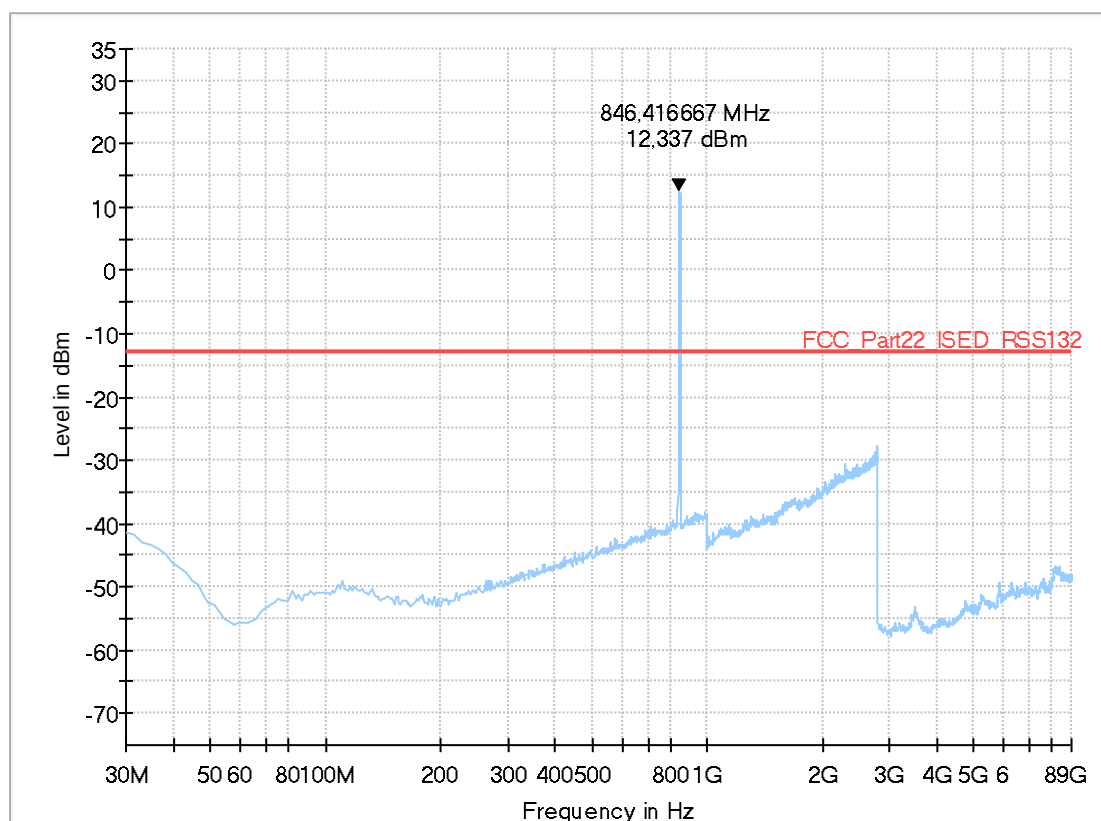
Common Information

Test Description:	Radiated emission related to 1m
Test Site:	FAR
Test Standard:	FCC FCC Part 24.238 Broadband PCS
Antenna polarisation:	vertical / horizontal
Operation mode:	UMTS_Band 5_CH:4233
Operating conditions:	Humidity: 40%rH; Temperature: 20°C
Operator Name:	HEI

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.5.2. Radiated emissions on FDD Band V - Backup Antenna '8.03b_UMTS_FDDV_CH4132

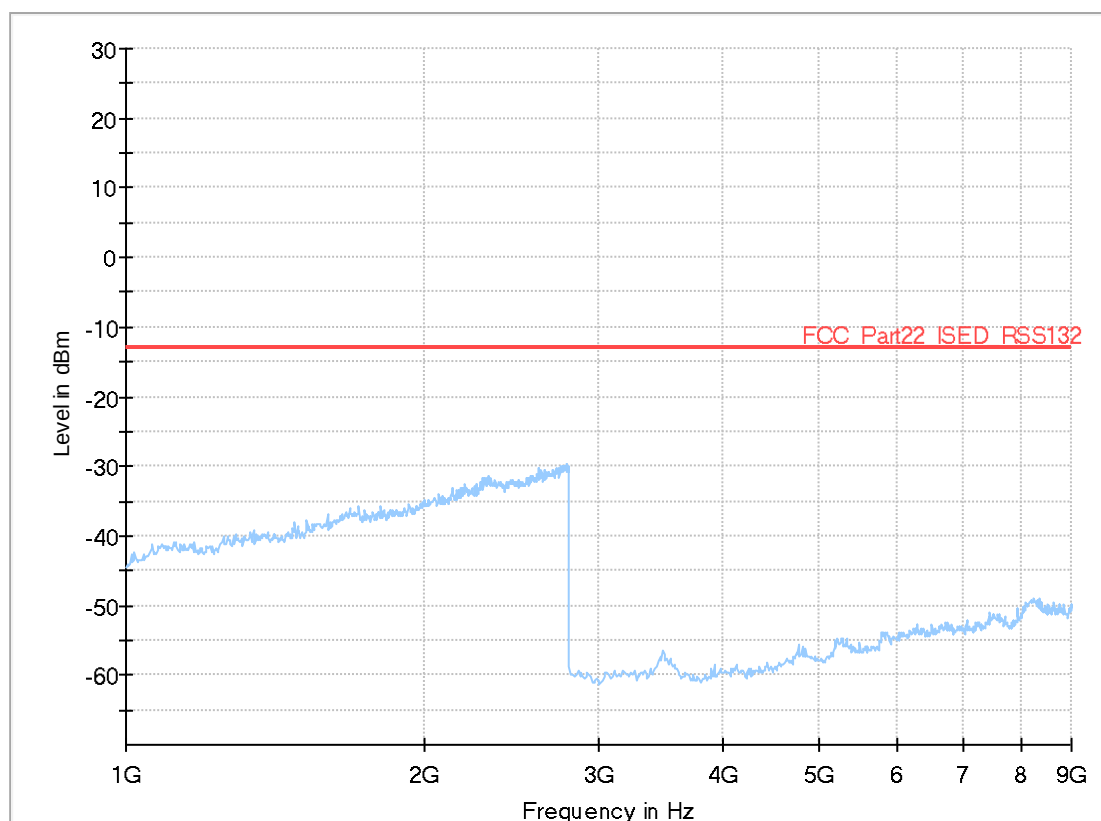
Common Information

Test Description:	Radiated emission related to 1m
Test Site:	FAR
Test Standard:	FCC FCC Part 24.238 Broadband PCS
Antenna polarisation:	vertical / horizontal
EUT:	US-R1
Operating conditions:	Humidity: 50%rH; Temperature: 20°C
Operation mode:	UMTS_Bnd:5_Channel:4132
Operator Name:	HEI
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.6. Radiated emissions on FDD Band II band-edge

1.6.1. Radiated emissions on FDD Band II band-edge - Main Antenna

9.01a_BE_R_Ch9262_RMC

Common Information

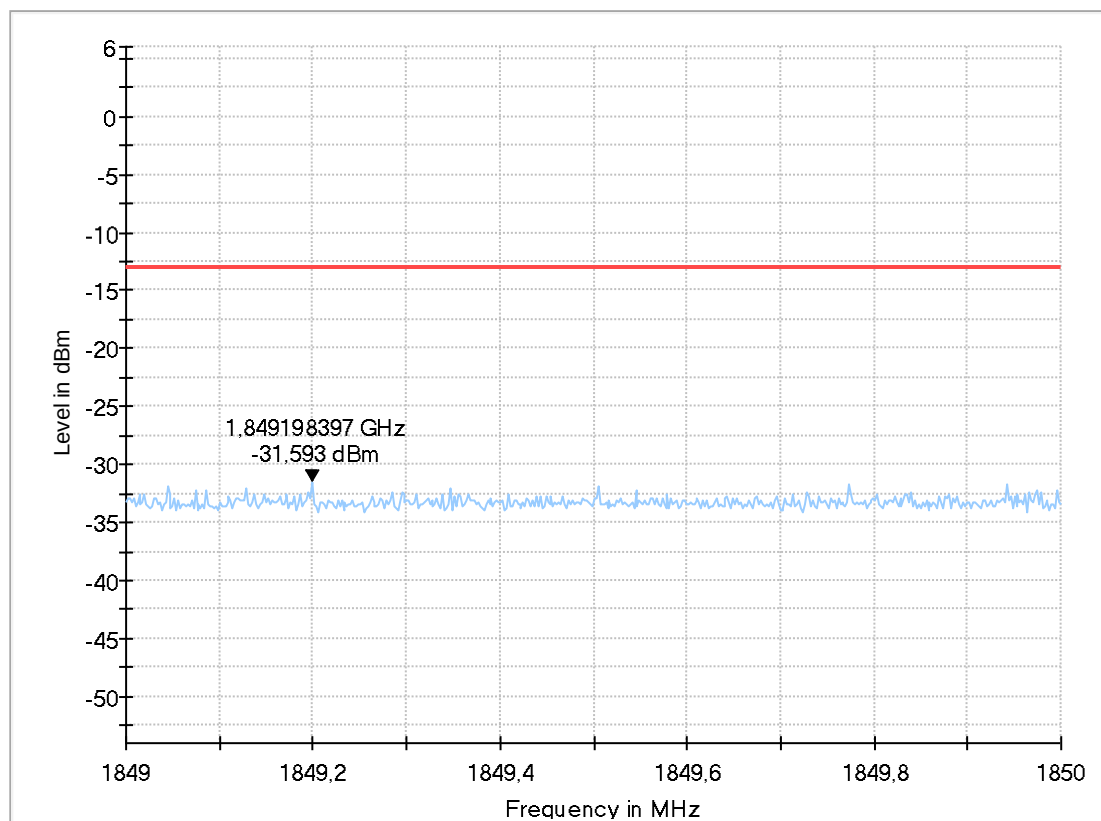
Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UMTS_Band 2 _CH: 9538
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	HEI
Remarks:	EUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)

HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.01b_BE_R_Ch9538_RMC

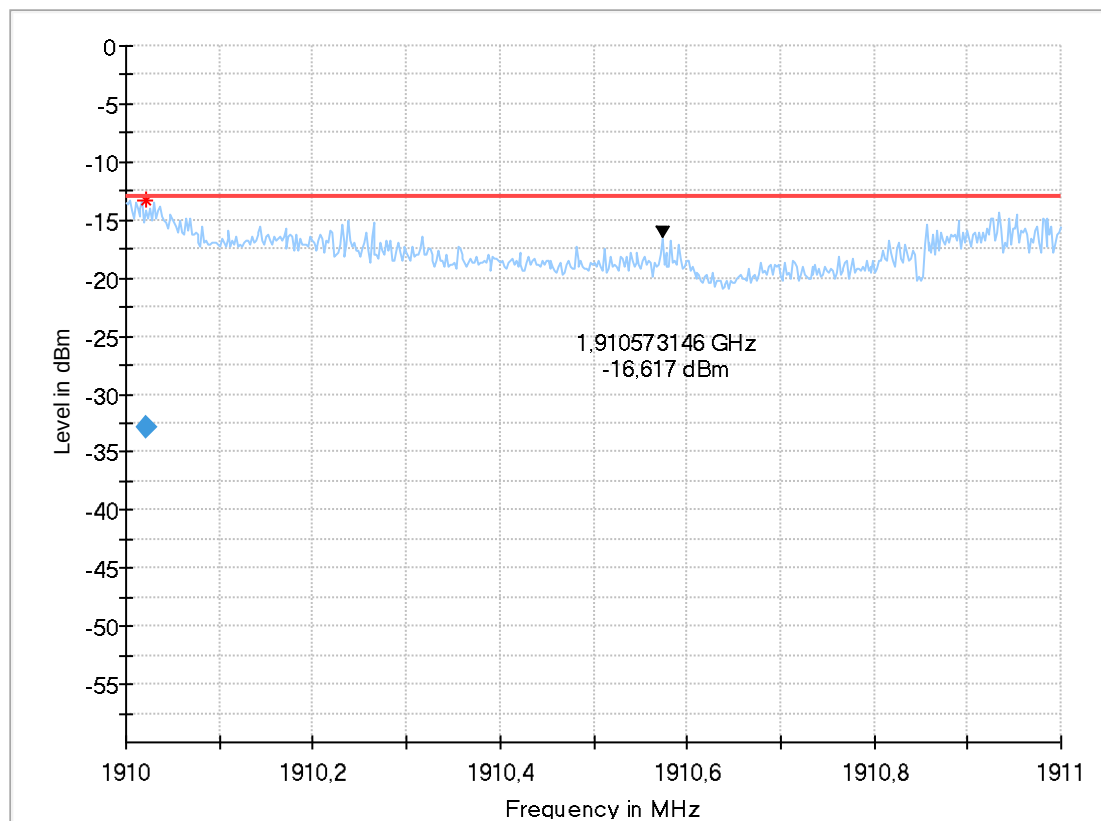
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UMTS_Band 2 _CH: 9538
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	HEI

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



Final Result

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1910.022044	-32.84	-13.00	19.84	10000.0	5.000	V	348.0	0.0	-62.8

1.6.2. Radiated emissions on FDD Band II band-edge - Backup Antenna

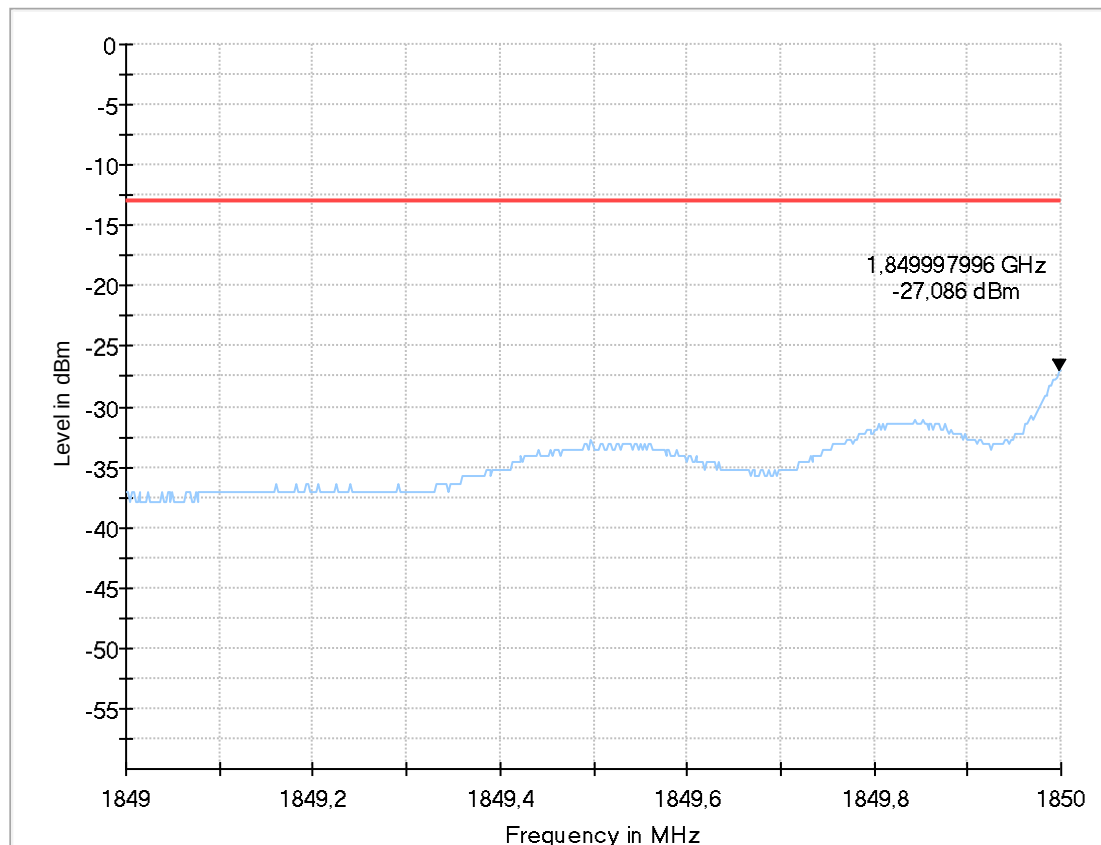
9.02a _BE_R_ Ch9262_RMC

Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UMTS_Band 2 _CH: 9538
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	HEI
Remarks:	EUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

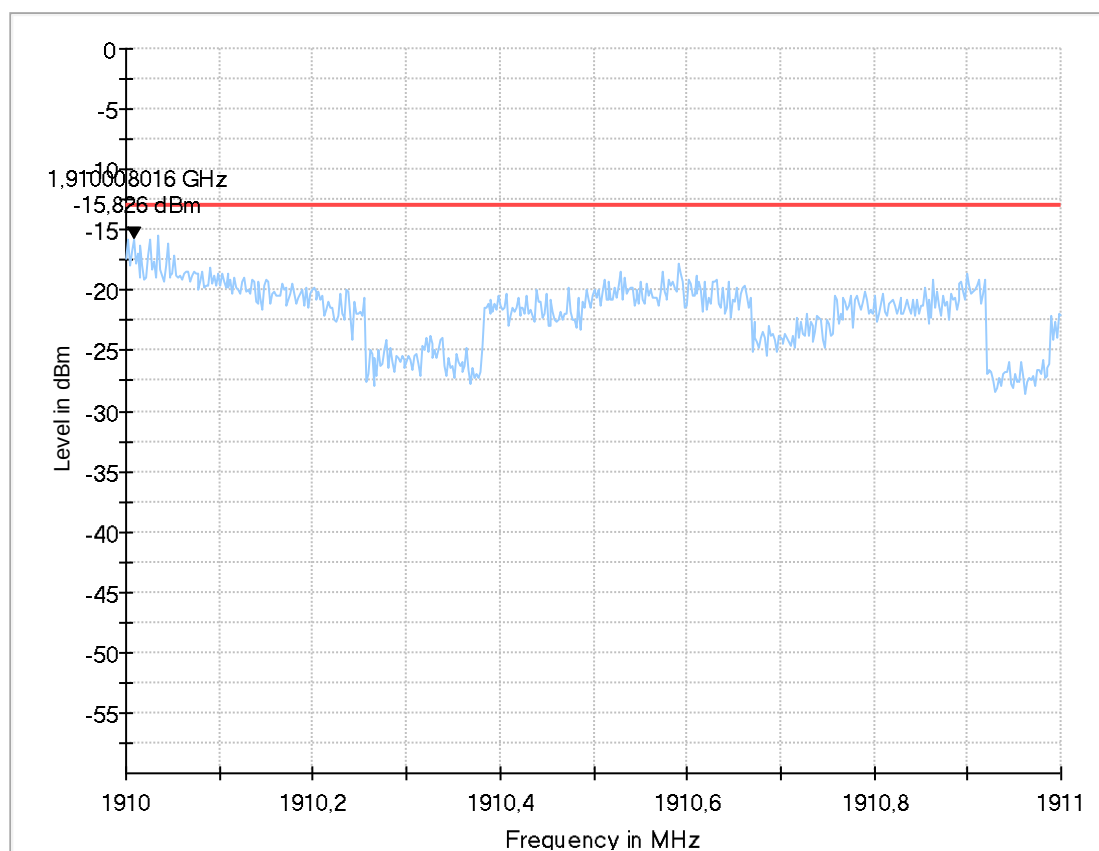


9.02b _BE_R_ CH9538_RMC

Common Information

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-



1.7. Radiated emissions on FDD Band IV band-edge

1.7.1. Radiated emissions on FDD Band IV band-edge - Main Antenna

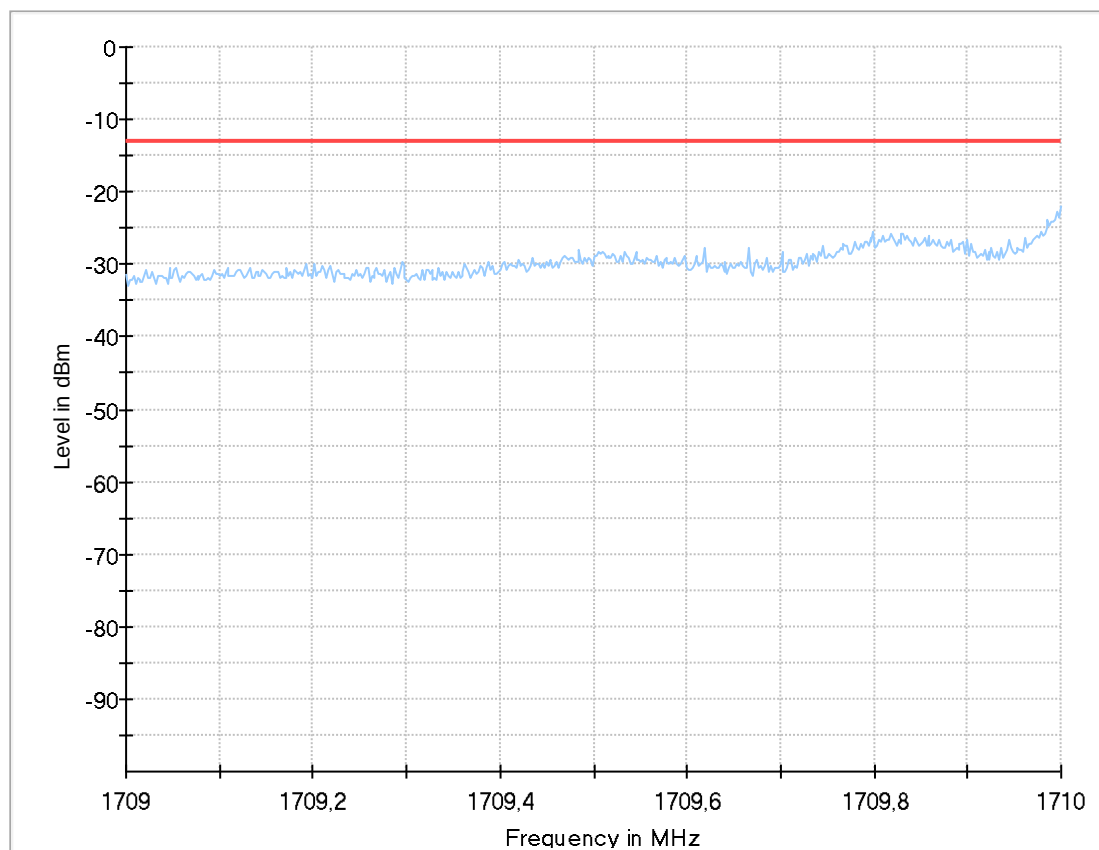
9.03a_BE_R_Ch1312_RMC

Common Information

Test Description:	Radiated emission related to 1m
Test Site:	FAR
Antenna polarisation:	vertical / horizontal
Operation mode:	UMTS_Band 4_CH:1312
Operating conditions:	Humidity: 40%rH; Temperature: 20°C
Operator Name:	SLo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-



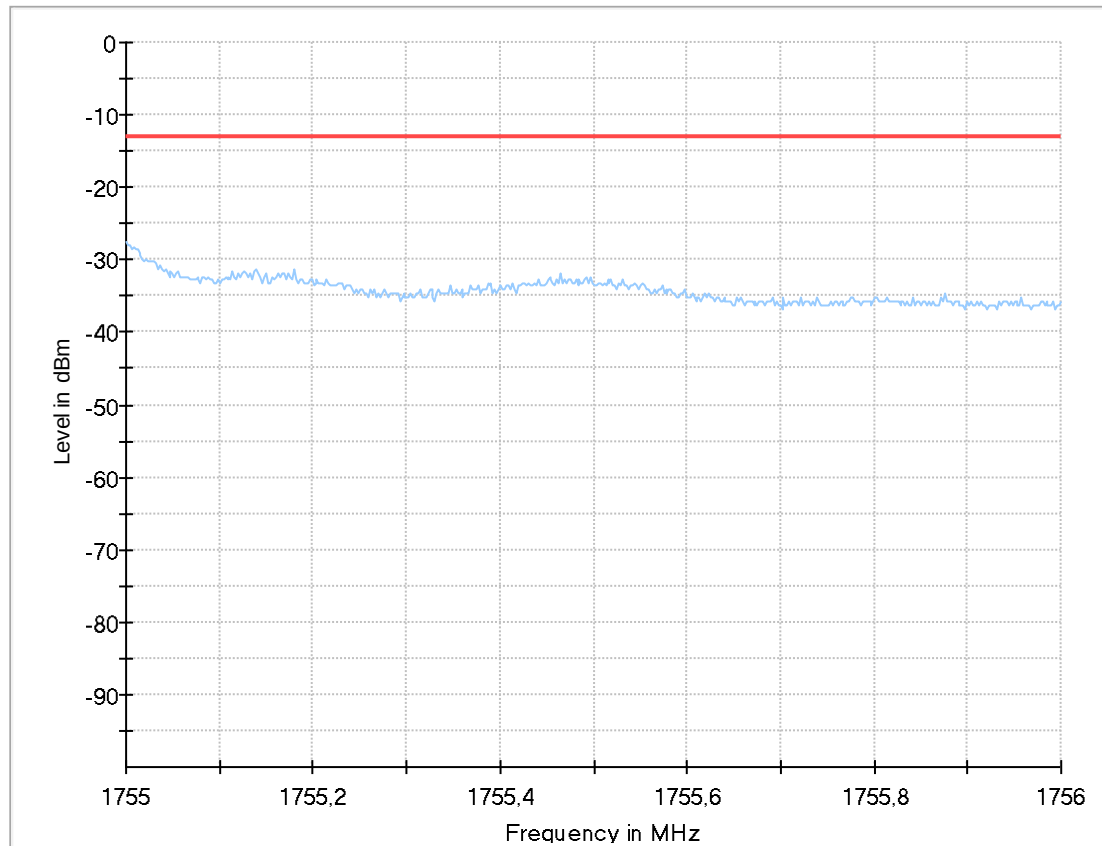
9.03b_BE_R_Ch1513_RMC

Common Information

Test Description:	Radiated emission related to 1m
Test Site:	FAR
Antenna polarisation:	vertical / horizontal
Operation mode:	UMTS_Band 4_CH:1513
Operating conditions:	Humidity: 40%rH; Temperature: 20°C
Operator Name:	SLo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
-----	-----
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-



1.7.2. Radiated emissions on FDD Band IV band-edge - Backup Antenna

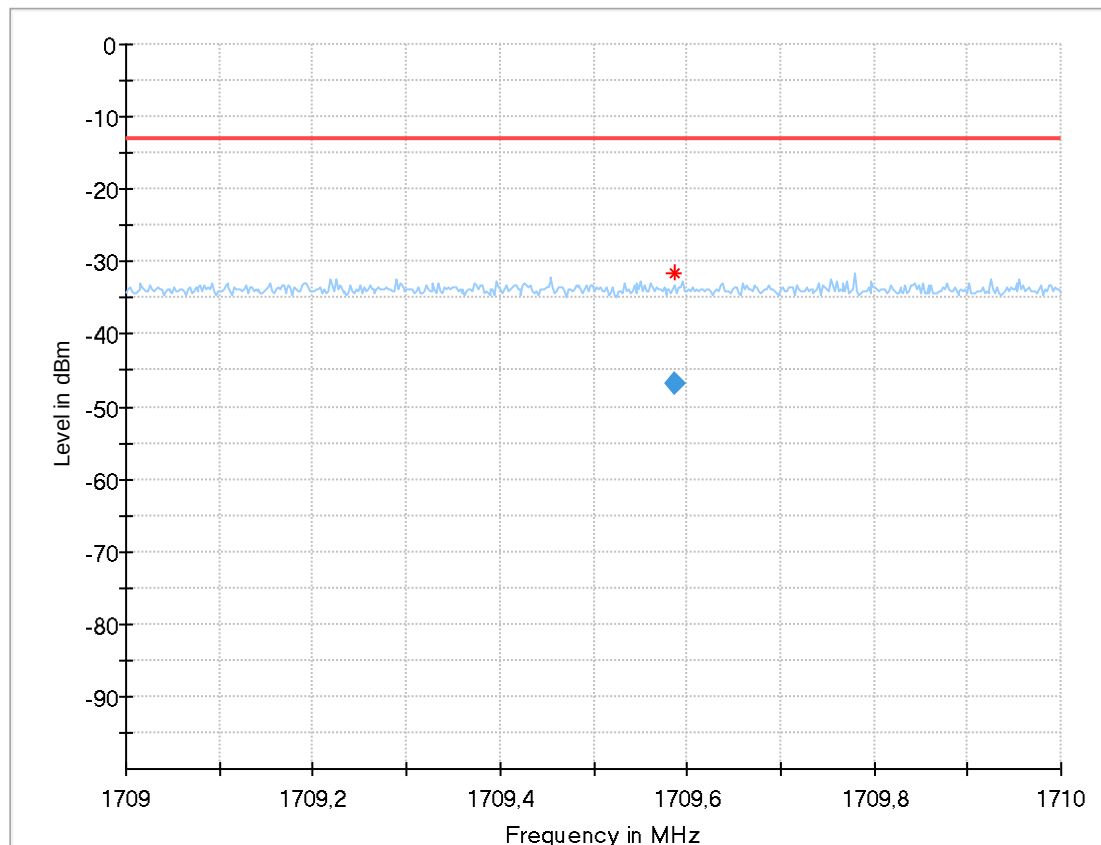
9.04a_BE_R_Ch1312_RMC

Common Information

Test Description:	Radiated Band Edge Compliance UMTS FDDIV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	
Operating Mode:	UMTS FDDIV
Exclusionband:	
Environmental Conditions:	Humidity: 50%rH; Temperature: 25°C
Operator:	SLo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-



Final Result

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1709.587082	-46.85	-13.00	33.85	10000.0	50.000	155.0	H	103.0	0.0	-63.3

(continuation of the "Final_Result" table from column 17 ...)

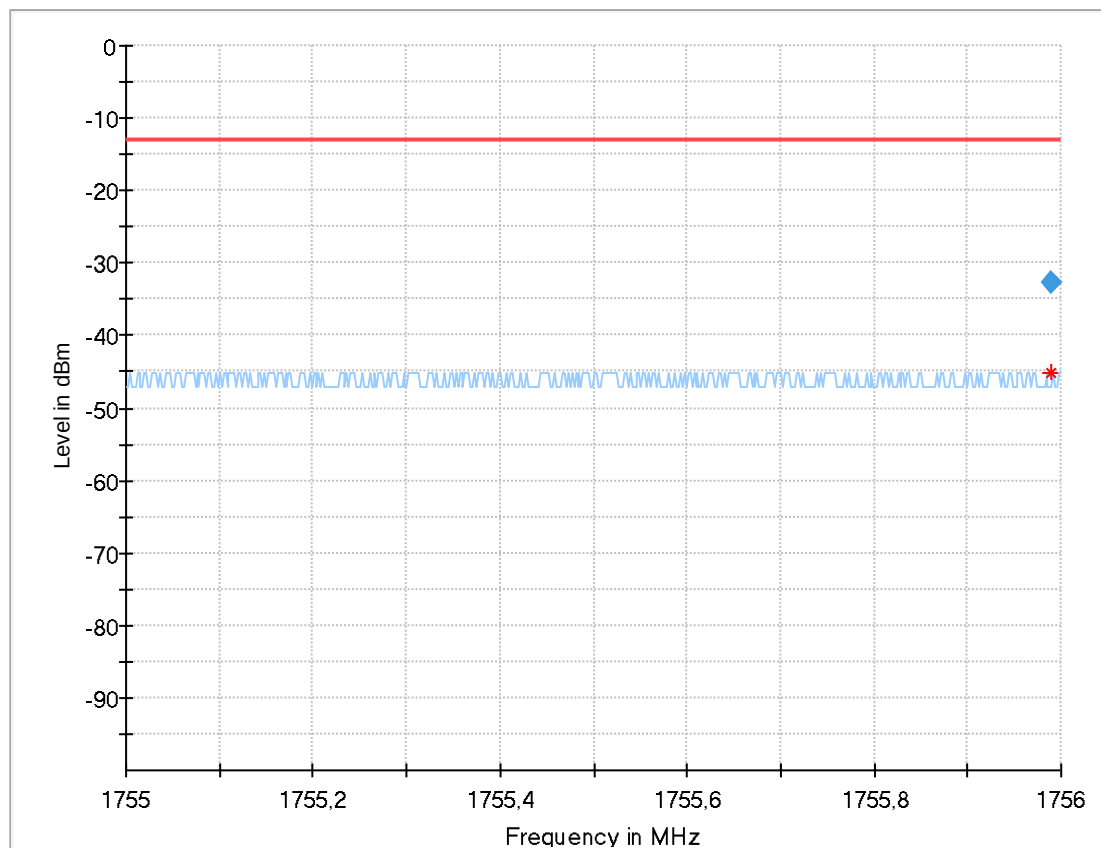
9.04b_BE_R_CH1513_RMC

Common Information

Test Description:	Radiated Band Edge Compliance UMTS FDDIV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	
Operating Mode:	UMTS FDDIV
Exclusionband:	
Environmental Conditions:	Humidity: 50%rH; Temperature: 25°C
Operator:	SLo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1755.989980	-32.71	-13.00	19.71	10000.0	50.000	155.0	H	134.0	90.0	-63.6

1.8. Radiated emissions on FDD Band V band-edge
1.8.1. Radiated emissions on FDD Band V band-edge - Main Antenna

9.05a_BE_R_Ch4132_RMC

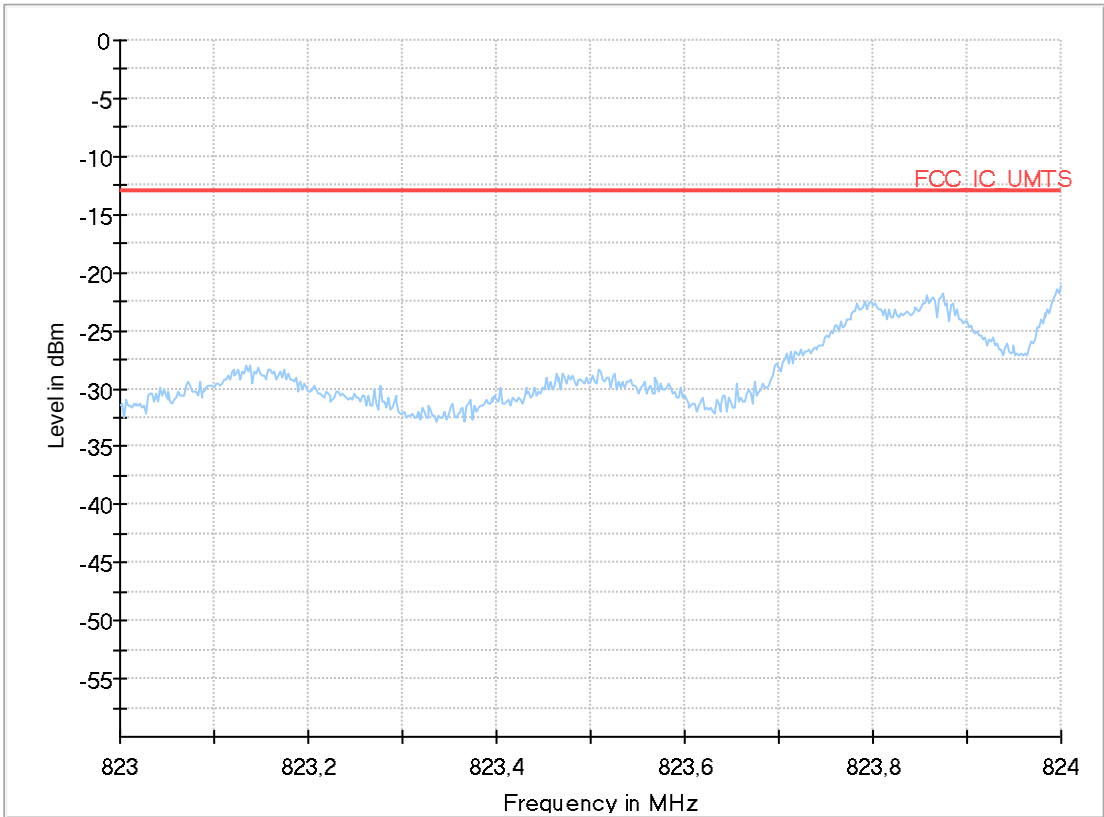
Common Information

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: 40%rH; Temperature: 20°C
Operator:	SLo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.05b_BE_R_Ch4233_RMC

Common Information

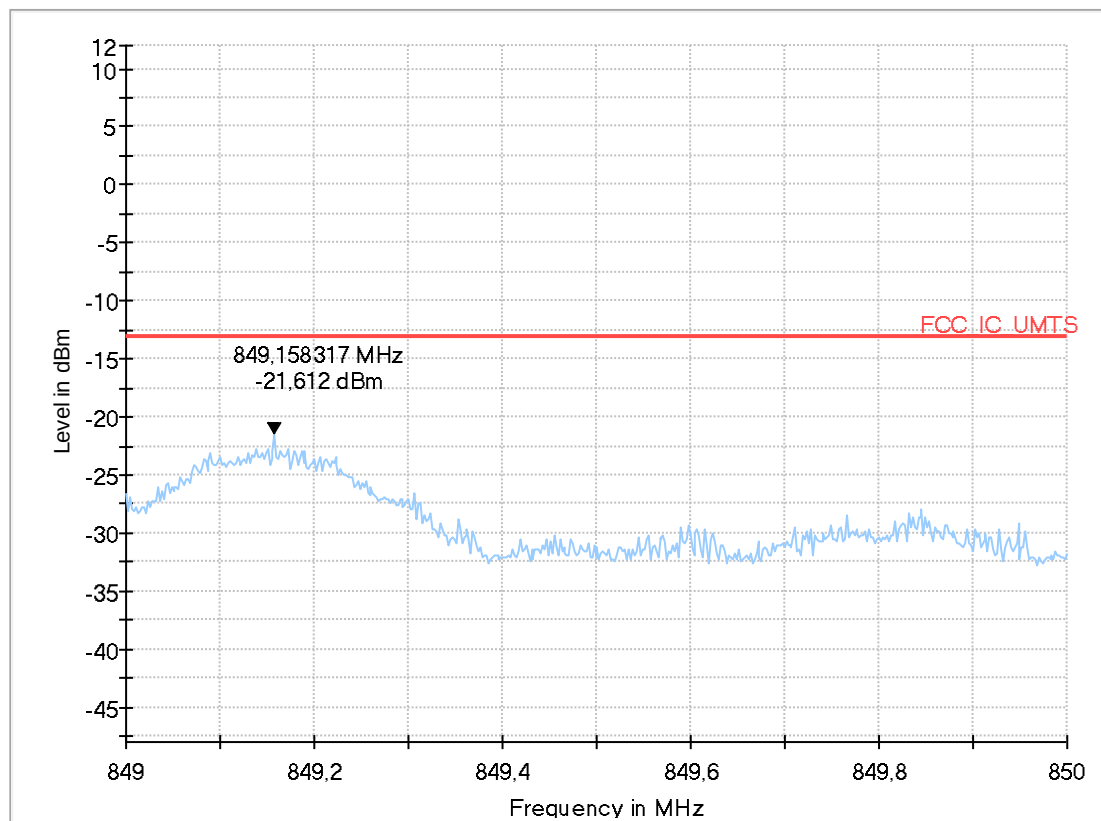
Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated Band:5_channel 4233
Operator:	HEI

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)

HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.8.2. Radiated emissions on FDD Band V band-edge - Backup Antenna

9.06a_BE_R_Ch4132_RMC

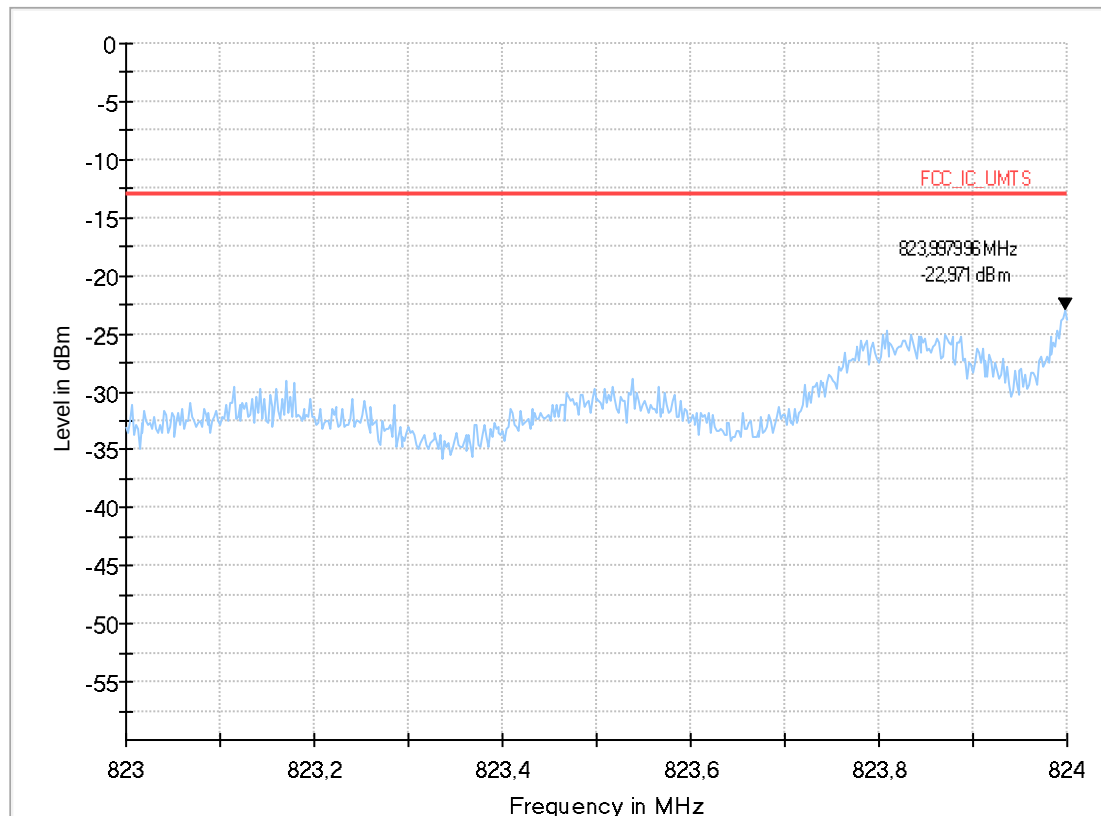
Common Information

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: 50%rH; Temperature: 20°C
Operator:	HEI
Remarks:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum



9.06b_BE_R_Ch4233_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 4233
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	HEI
Remarks:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG a valeo Brand
EUT:	ATM-02-US-R1 (Sample 1010)
HW version:	103.004.004
SW version:	001.009.015
Serial number:	4326
Connected Interfaces:	Antenna (65206826326-03) + EMC Control Unit
Power Supply:	12VDC
Comments:	-

Full Spectrum

