

Annex 1: Measurement diagrams to TEST REPORT No.: 15-1-0017001T01a

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

IC-Regulations
RSS-132 Issue 3, RSS-133 Issue 6,
RSS-139 Issue 2, RSS-Gen Issue 4
RSS-130, Issue 1

for

peiker acoustic GmbH & Co. KG

ATM-01 T2-US-4GW

FCC-ID: QWY-ATM-T-622

IC: 6588A-ATMT622

PMN: ATM trunk version

HVIN: ATM-01 T2-US-4GW

Laboratory Accreditation and Listings			
 DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01	 FEDERAL COMMUNICATIONS COMMISSION USA MRA US-EU 0003	 Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3	 Voluntary Controls for Electromagnetic Emissions Reg. No.: R-2666 C-2914, T-1967, G-301
 WiFi ALLIANCE AUTHORIZED RF LABORATORY	 ctia Authorized TM Test Lab Lab Code: 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
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1. Measurement diagrams for GSM technology

1.1. Spurious emissions radiated (850 MHz transmitting mode)

1.1.1. Internal antenna

8.03_RSE_R_Ch251_GSM

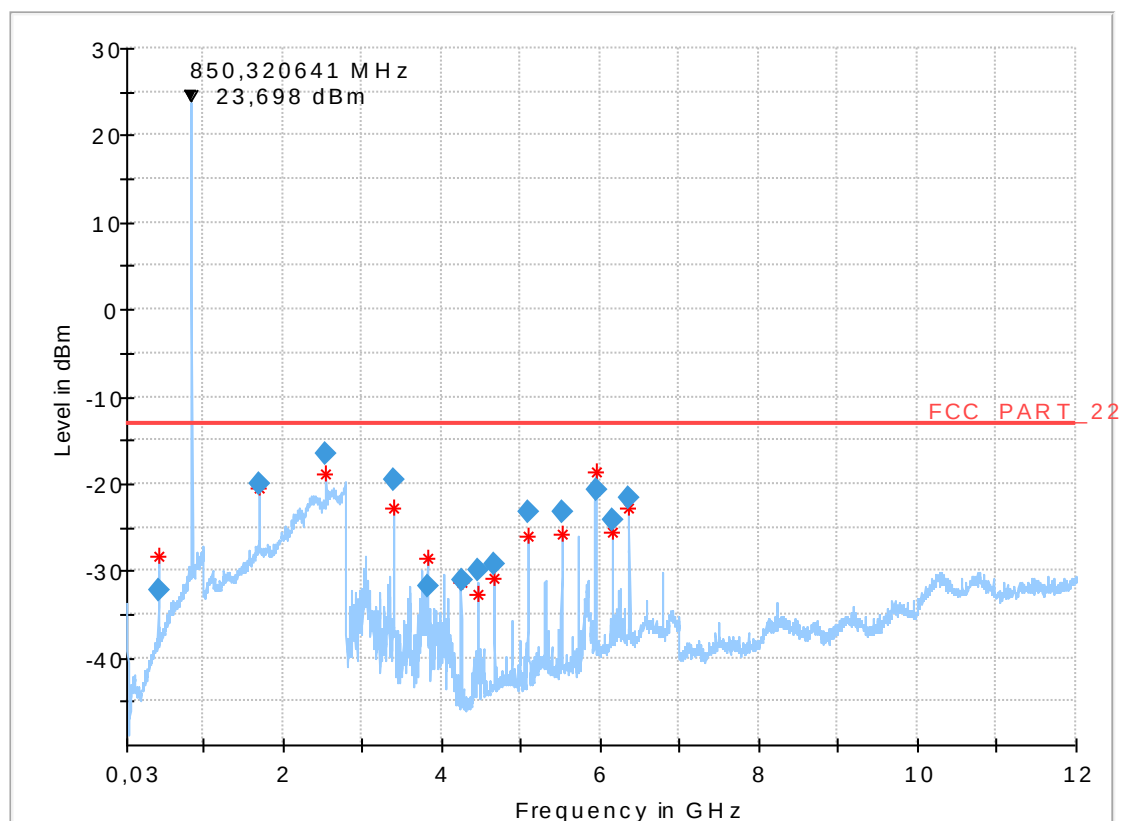
Common Information

Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Test Case:	-
Operating Mode:	MS allocated UL channel 251 Voice
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Comments:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
424.378757	-13.00	19.14	5000.0	V	37.0	0.0	-82.0
1697.625251	-13.00	7.01	5000.0	H	266.0	0.0	-62.8
2546.763527	-13.00	3.60	5000.0	V	112.0	0.0	-59.3
3395.060121	-13.00	6.68	5000.0	V	23.0	0.0	-95.4
3816.743487	-13.00	18.80	5000.0	V	55.0	0.0	-95.1
4243.757515	-13.00	18.17	5000.0	V	-21.0	0.0	-93.5
4455.881764	-13.00	16.86	5000.0	V	46.0	0.0	-92.9
4668.607214	-13.00	16.31	5000.0	H	86.0	0.0	-91.4
5093.356714	-13.00	10.29	5000.0	V	112.0	0.0	-90.9
5516.783567	-13.00	10.32	5000.0	V	112.0	0.0	-89.9
5941.172345	-13.00	7.80	5000.0	V	112.0	0.0	-88.1
6153.837675	-13.00	11.13	5000.0	V	-22.0	0.0	-87.0
6365.841683	-13.00	8.56	5000.0	V	-19.0	0.0	-86.6

1.1.2. External antenna

8.04_RSE_R_Ch128_GPRS

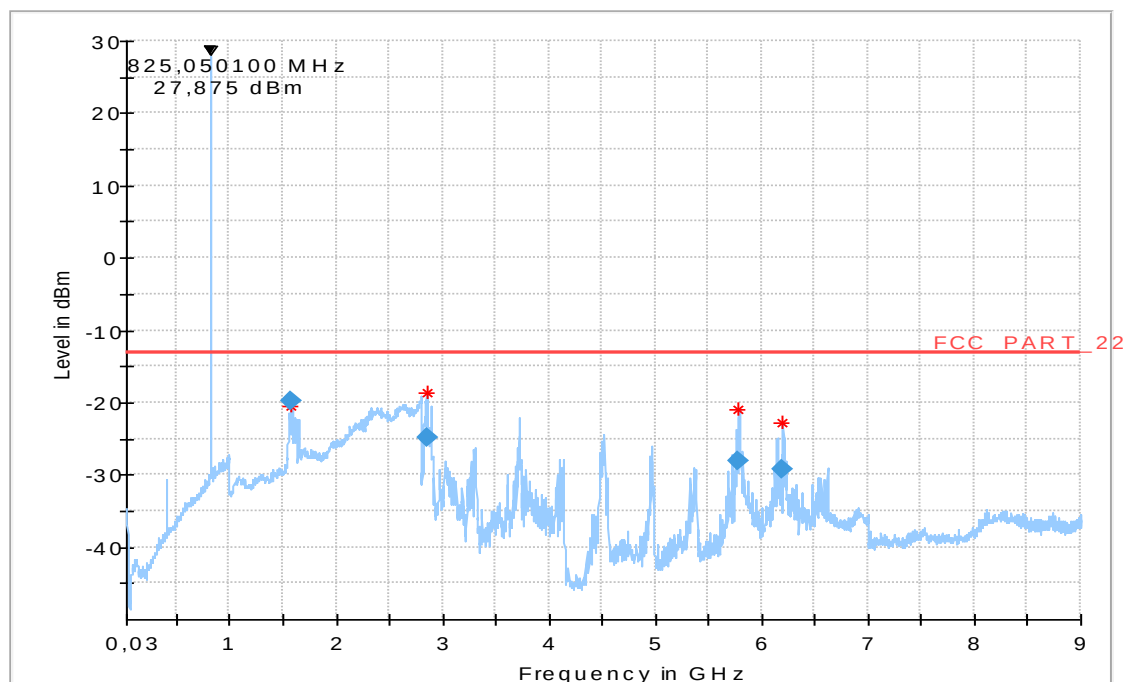
Common Information

Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Test Case:	-
Operating Mode:	MS allocated UL channel 128,190,251
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLA

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1581.132265	-13.00	6.69	5000.0	1000.000	155.0	V	164.0	90.0	-64.3
2849.028056	-13.00	11.76	5000.0	1000.000	155.0	V	223.0	90.0	-95.8
5783.817635	-13.00	15.14	5000.0	1000.000	155.0	H	226.0	90.0	-88.3
6199.448898	-13.00	16.27	5000.0	1000.000	155.0	V	13.0	90.0	-86.5

1.2. Radiated emissions on 850 MHz transmitting band-edge

1.2.1. Internal antenna

9.02_BE_R_Ch251_GSM

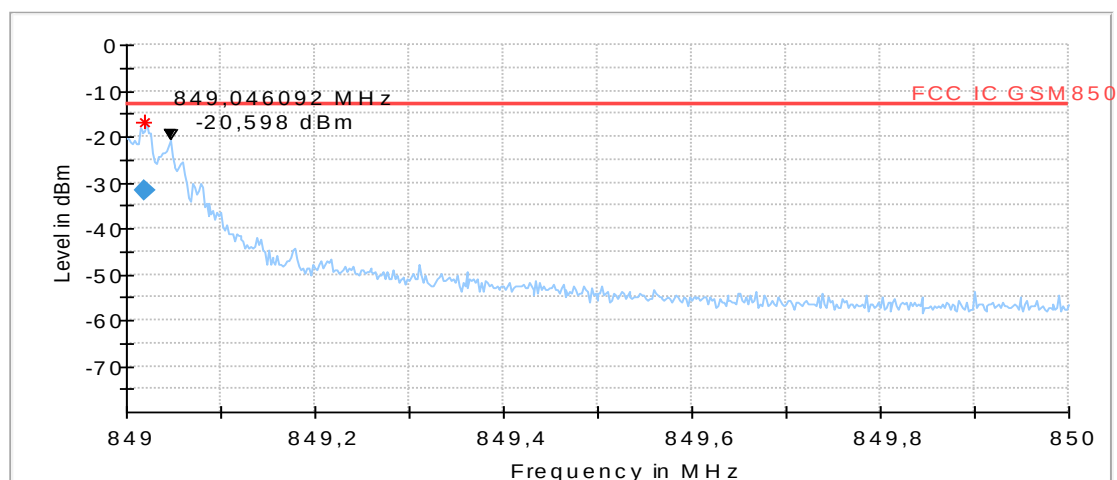
Common Information

Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 251 (fc = 848.8MHz), Voice,
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Comments	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	Backup Antenna

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
849.020040	-13.00	18.69	10000.0	H	39.0	0.0	-76.0

1.2.2. External antenna

9.03_RSE_R_Ch128_GPRS

Common Information

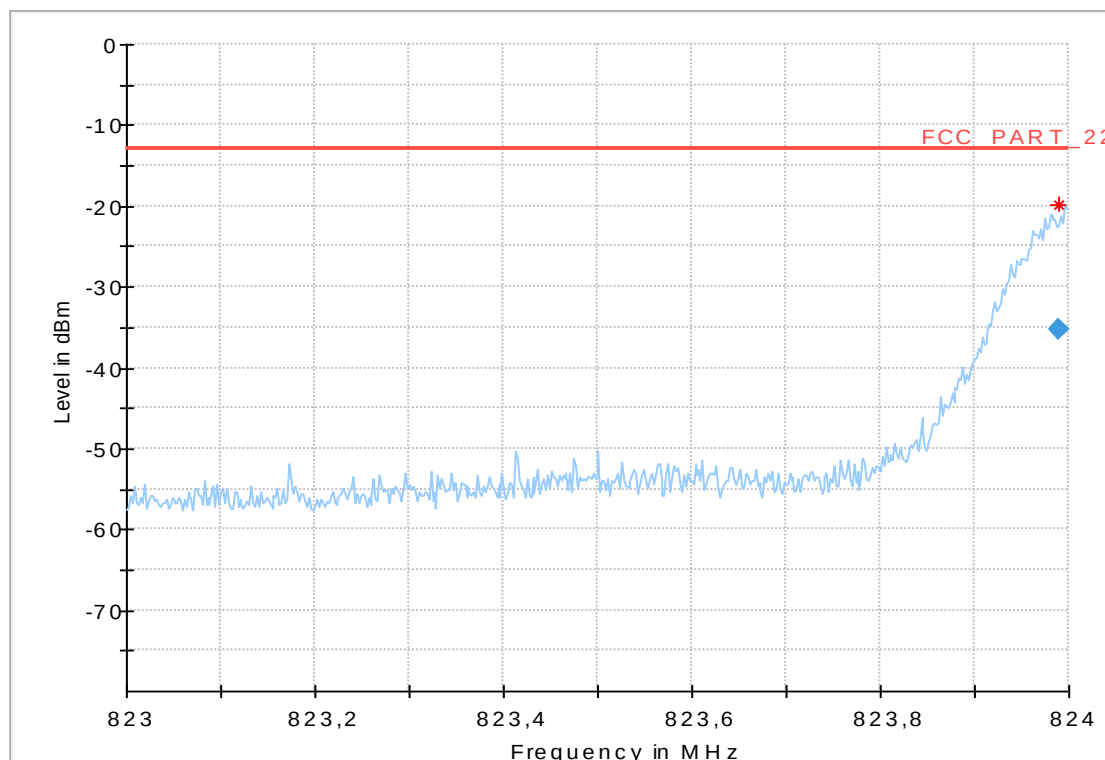
Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 128 (fc = 824.2MHz), Voice, PCL5 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLA

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
823.989980	-13.00	22.38	10000.0	3.000	155.0	V	356.0	0.0	-75.8

1.3. Spurious emissions radiated (1900 MHz transmitting mode)

1.3.1. Internal antenna

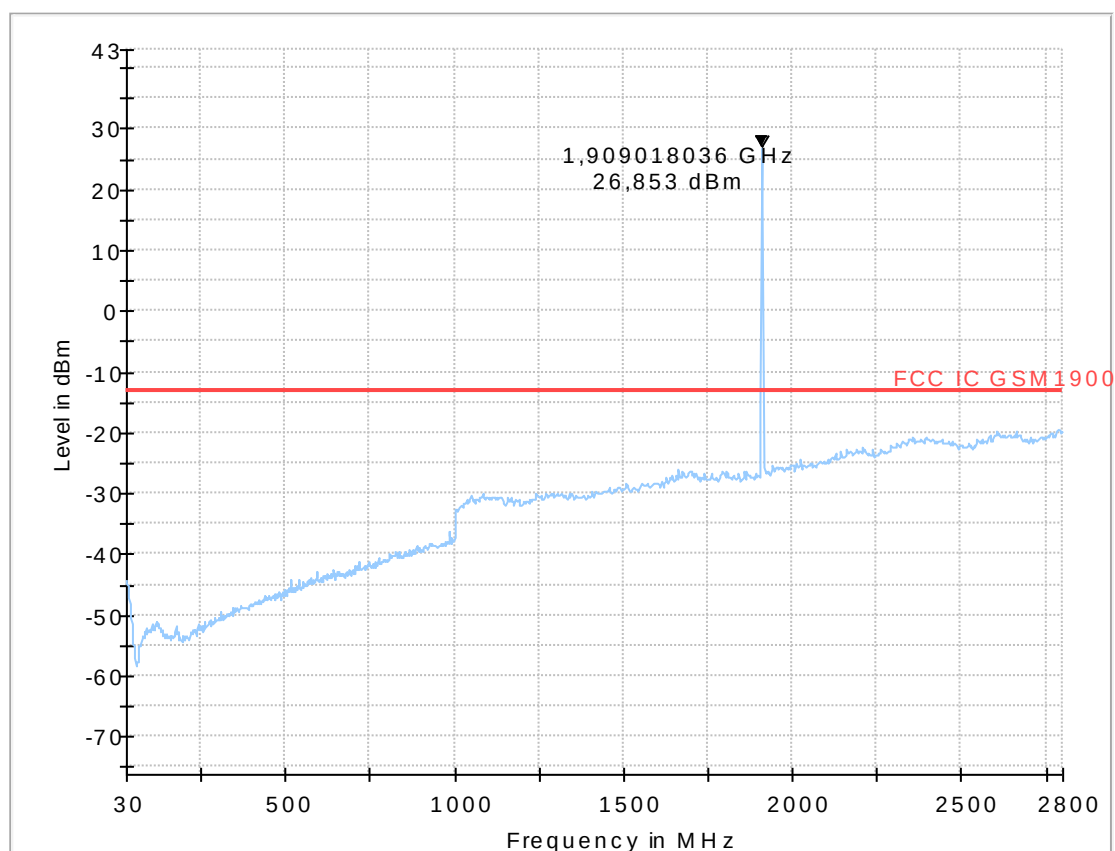
8.12a_RSE_R_CH810_GSM_Sweep 30-2800 MHz

Common Information

Test Description:	Radiated Spurious Emissions GSM 1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 810), Voice
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator Name:	Hla/KMo
Comment:	Sweep 30 MHz- 2.8 GHz

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EUT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



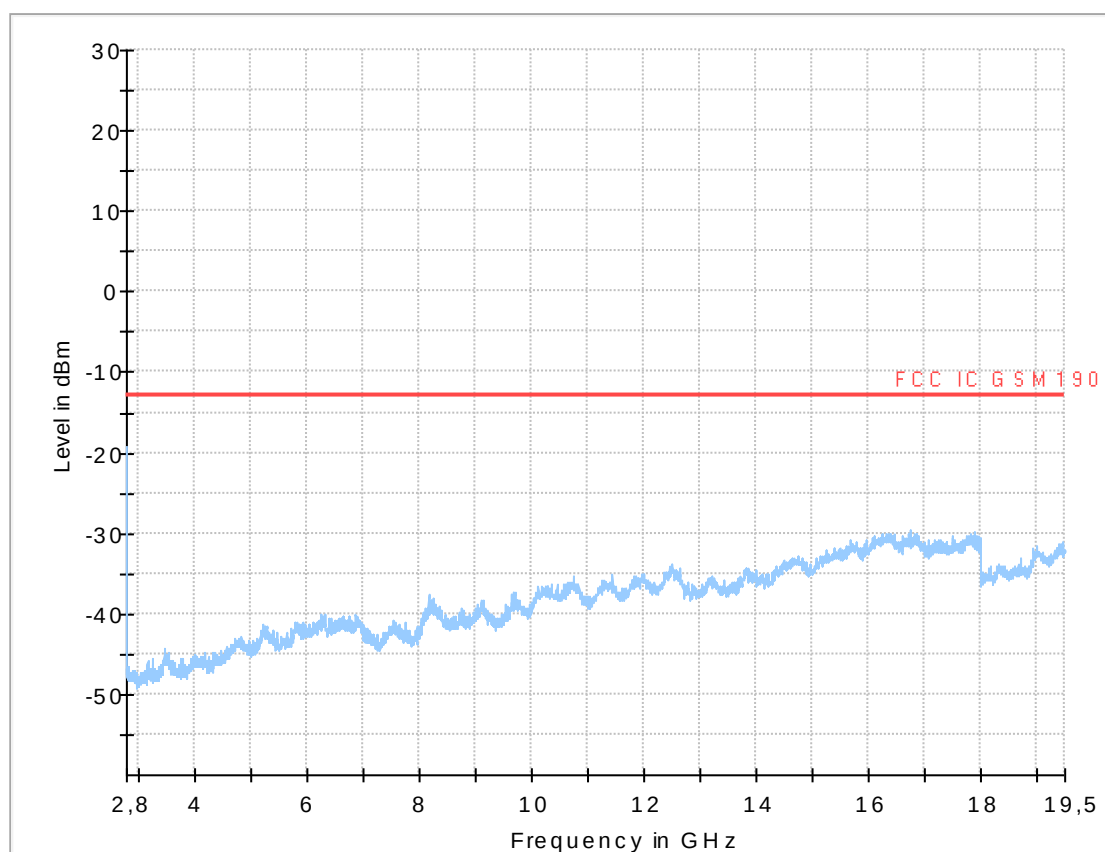
8.12b_RSE_R_CH810_GSM_Sweep 2.8-19.5 GHz

Common Information

Test Description:	Radiated Spurious Emissions GSM 1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 24
Operating Mode:	MS allocated channel 810 , Voice
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLA/KMo

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



1.3.2. External antenna

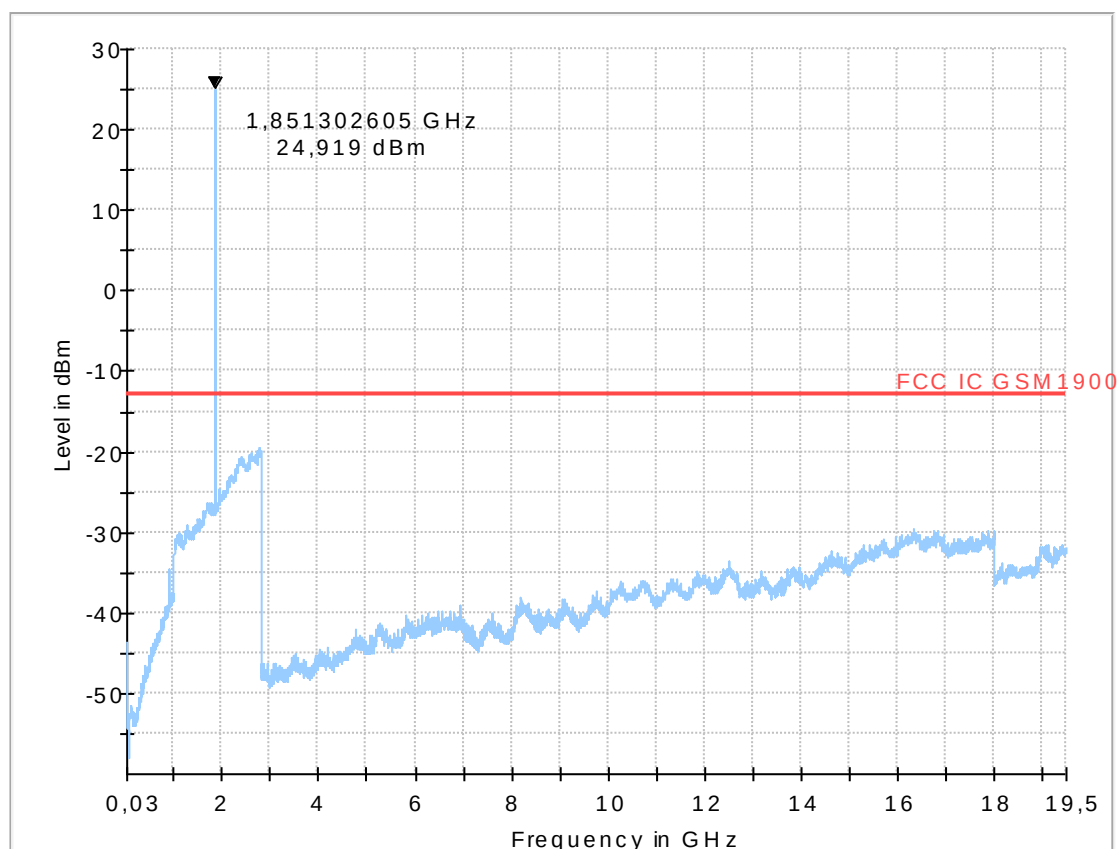
8.13_RSE_R_Ch512_GPRS

Common Information

Test Description:	Radiated Emissions GSM 1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 24
Test Case:	-
Operating Mode:	MS allocated channel 512 GPRS, MCS0
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLA

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



1.4. Radiated emissions on 1900 MHz transmitting band-edge

1.4.1. Internal antenna

9.08_BE_R_Ch810_GSM

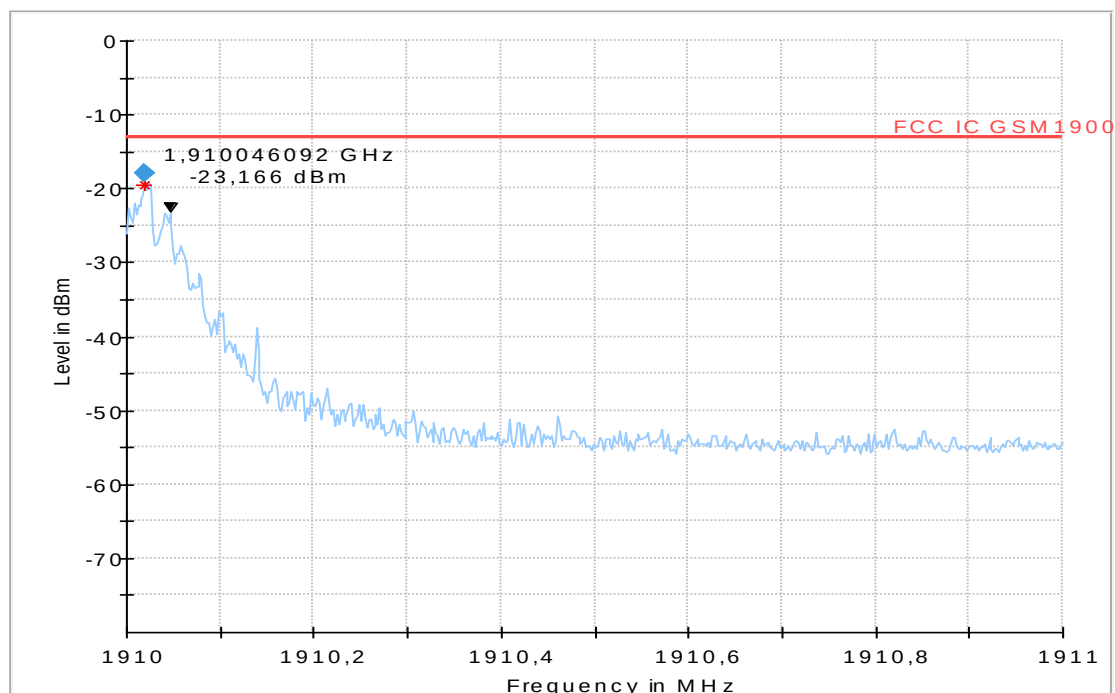
Common Information

Test Description:	Radiated Band Edge Compliance GSM1900
Operating Conditions:	CETECOM GmbH Essen
Operator Name:	Fully Anechoic Room (FAR)
Comment:	FCC Part 24
Operating Mode	MS allocated channel 810), Voice,
Environmental Conditions	Humidity: 40%rH; Temperature: 22°C
Operator	MFr
Comments	Backup Antenna

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1910.020040	-17.98	-13.00	4.98	10000.0	3.000	V	231.0	90.0	-62.8

1.4.2. External antenna

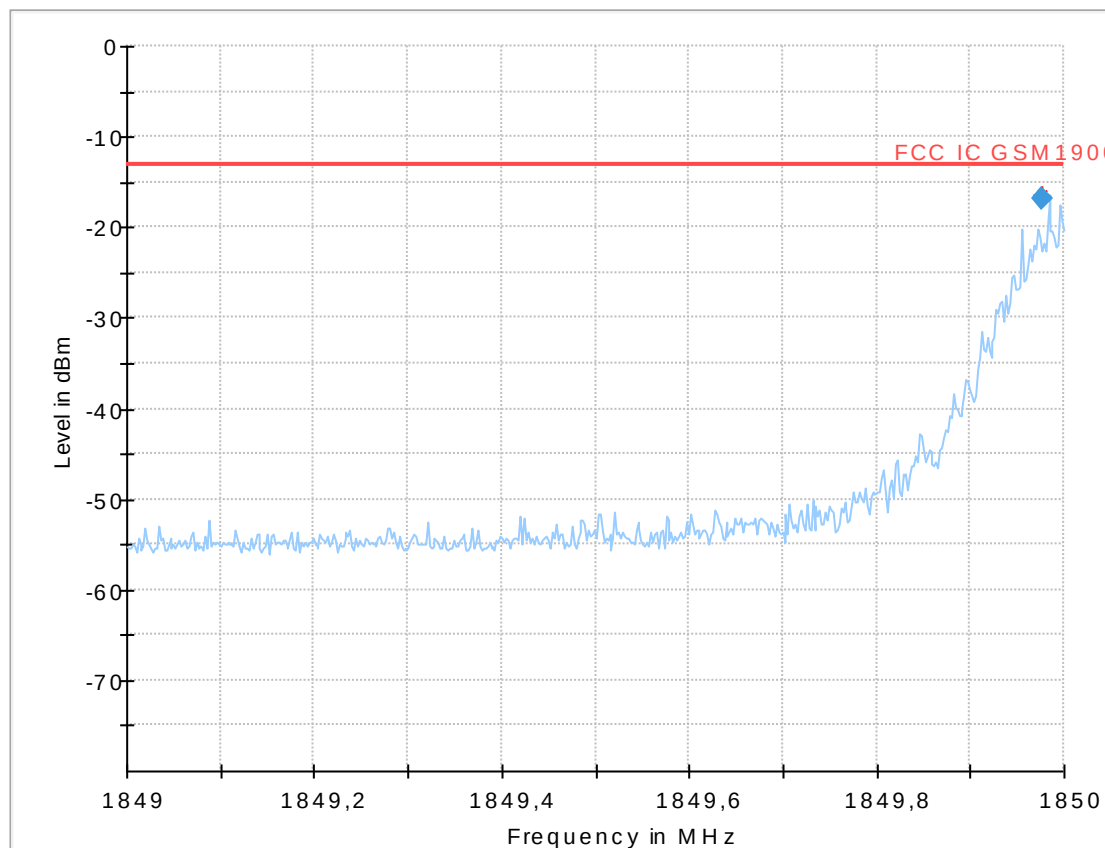
9.09_BE_R_Ch512_GPRS

Common Information

Test Description:	Radiated Band Edge Compliance GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 24
Test Case:	-
Operating Mode:	MS allocated channel 512 GPRS, MCS0
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLA

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1849.975952	-16.81	-13.00	3.81	10000.0	3.000	H	291.0	90.0	-63.1

2. Measurement diagrams for W-CDMA Mode

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

2.1.1. Internal antenna

8.22_RSE_R_Ch9538

Common Information

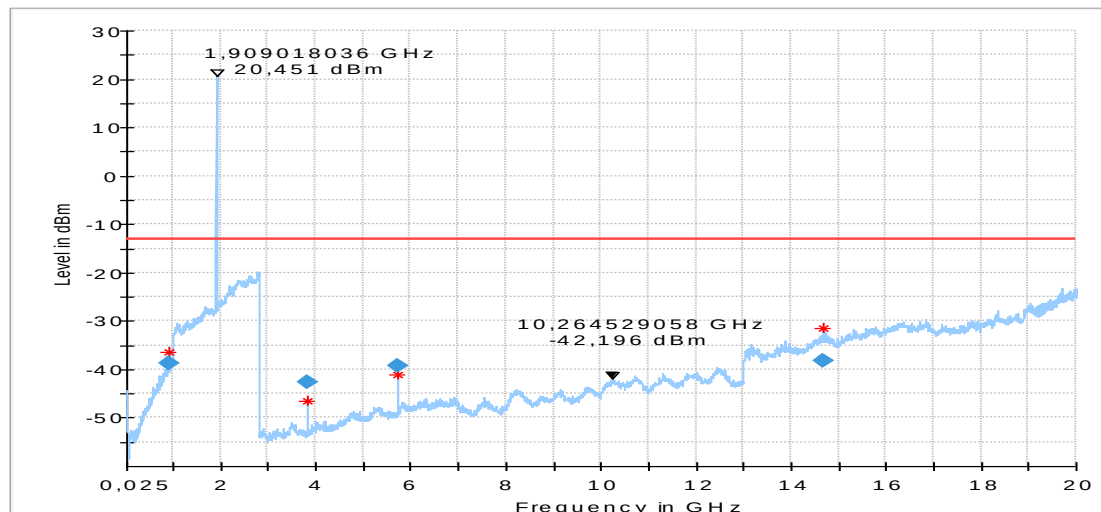
Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9538 (fc = 1907.6 MHz)
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Comments:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
908.486974	-13.00	25.84	10000.0	H	28.0	0.0	-75.0
3813.657315	-13.00	29.51	10000.0	V	-20.0	90.0	-95.1
5726.322645	-13.00	26.16	10000.0	H	0.0	90.0	-89.5
14685.400802	-13.00	25.25	10000.0	H	314.0	90.0	-72.3

2.1.2. External antenna

8.23_RSE_R_Ch9262

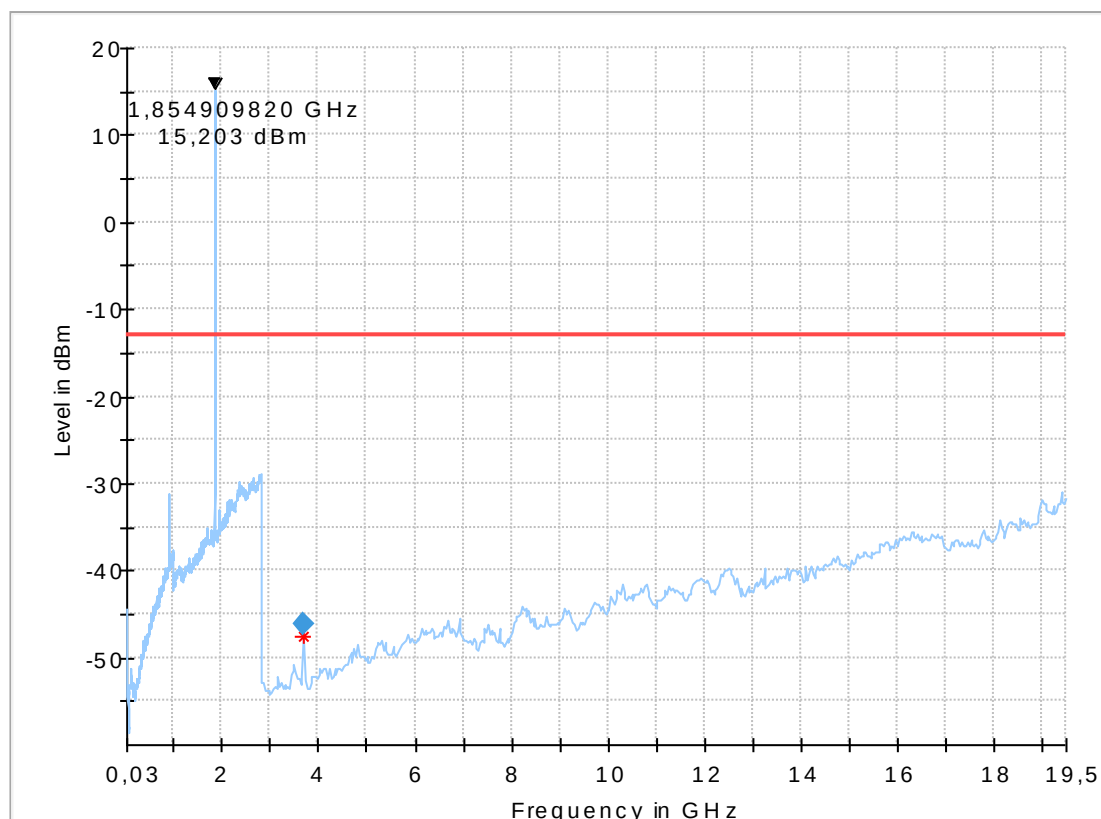
Common Information

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 = 1852.4 MHz)
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLA

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3703.348698	-13.00	33.24	10000.0	1000.000	155.0	V	256.0	0.0	-94.9

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

2.2.1. Internal antenna

8.52_RSE_R_Ch4233

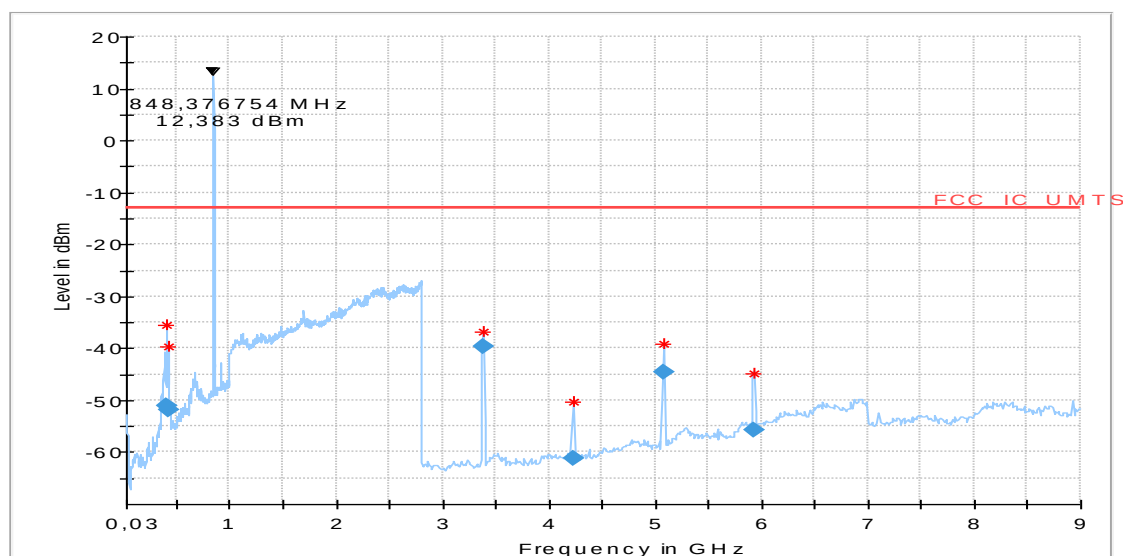
Common Information

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), Voice
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Comments:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
409.729458	-13.00	37.97	1000.0	H	-37.0	90.0	-82.3
423.216433	-13.00	38.96	1000.0	H	-50.0	90.0	-82.0
3383.517034	-13.00	26.76	1000.0	V	260.0	0.0	-95.5
4229.248498	-13.00	48.09	1000.0	V	33.0	90.0	-93.5
5081.472946	-13.00	31.69	1000.0	V	112.0	0.0	-91.0
5918.947896	-13.00	42.62	1000.0	V	89.0	90.0	-88.2

2.2.2. External antenna

8.53_RSE_R_Ch4132

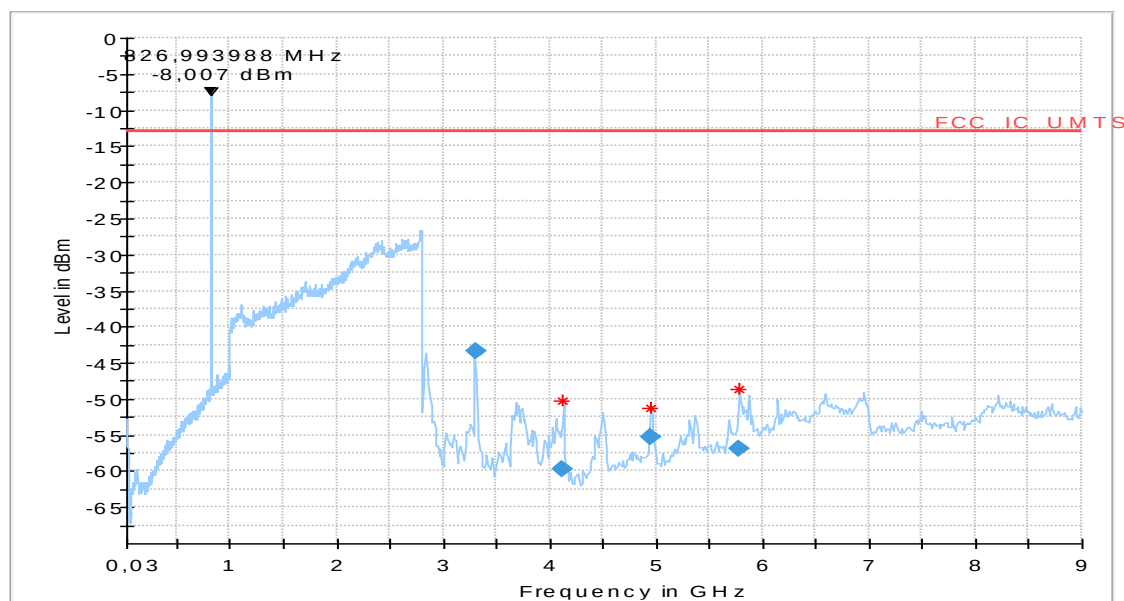
Common Information

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($f_c = 826.6\text{MHz}$)
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3301.773547	-13.00	30.40	1000.0	V	25.0	90.0	-95.8
4127.264529	-13.00	46.62	1000.0	V	31.0	90.0	-93.4
4952.494990	-13.00	42.20	1000.0	V	115.0	90.0	-90.9
5777.464930	-13.00	43.82	1000.0	V	90.0	90.0	-88.5

2.3. Radiated emissions on FDD Band II band-edge

2.3.1. Internal antenna

9.21_BE_R_Ch9538

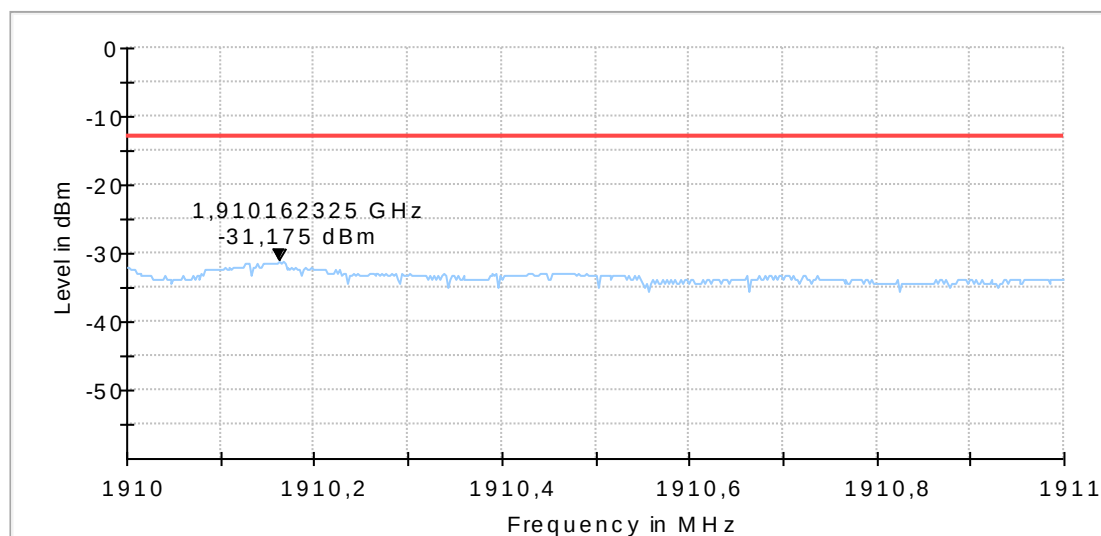
Common Information

Test Description:	Radiated Band Edge Compliance UMTS-FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	UE allocated channel 9538 (fc = 1907.6 MHz), Voice
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Comments	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum

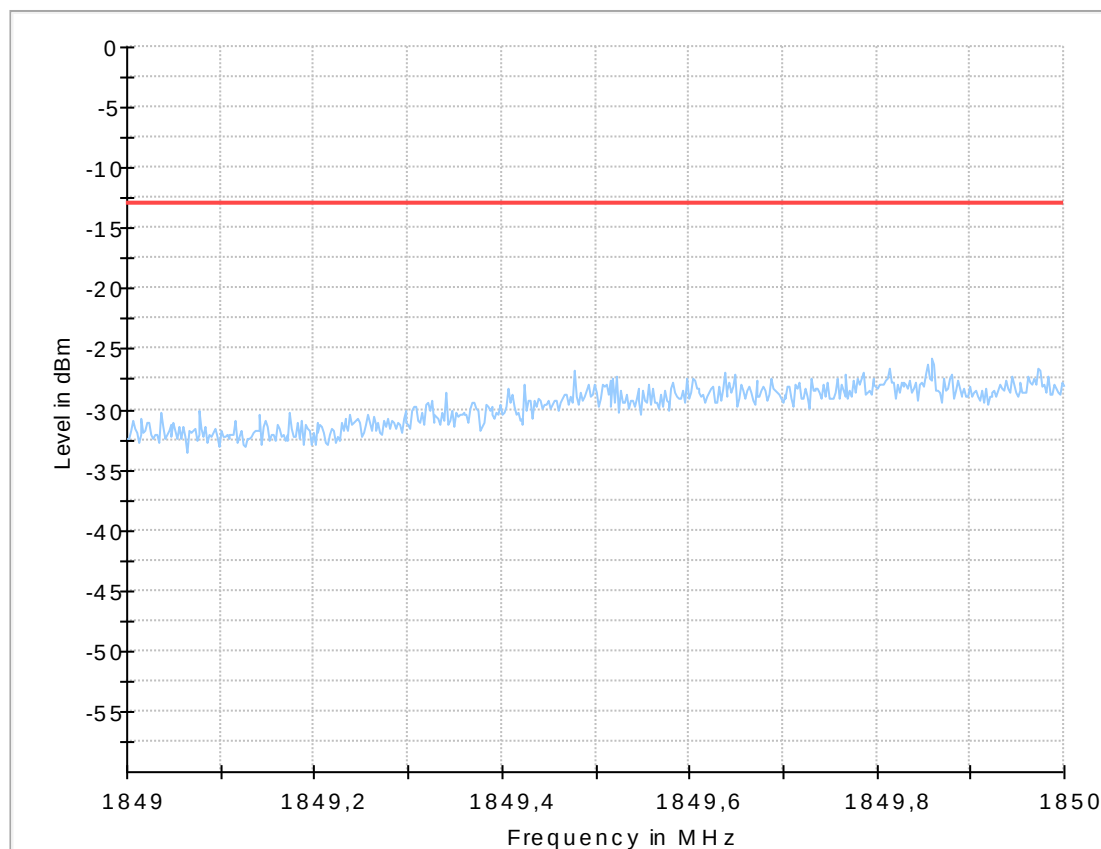


2.3.2. External antenna**Diagram No.: 9.22_BE_R_Ch9262****Common Information**

Test Description:	06.01.2016 14:04:20 Radiated Band Edge Compliance UMTSFDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test specification:	FCC Part 24.232(c) - Limitation of mobile transmitters
Operating Mode:	UE allocated channel 9262 (fc = 1852.4 MHz)
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator Name:	HLA

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
-----	-----
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



2.4. Radiated emissions on FDD Band V band-edge

2.4.1. Internal antenna

9.51_BE_R_Ch4233

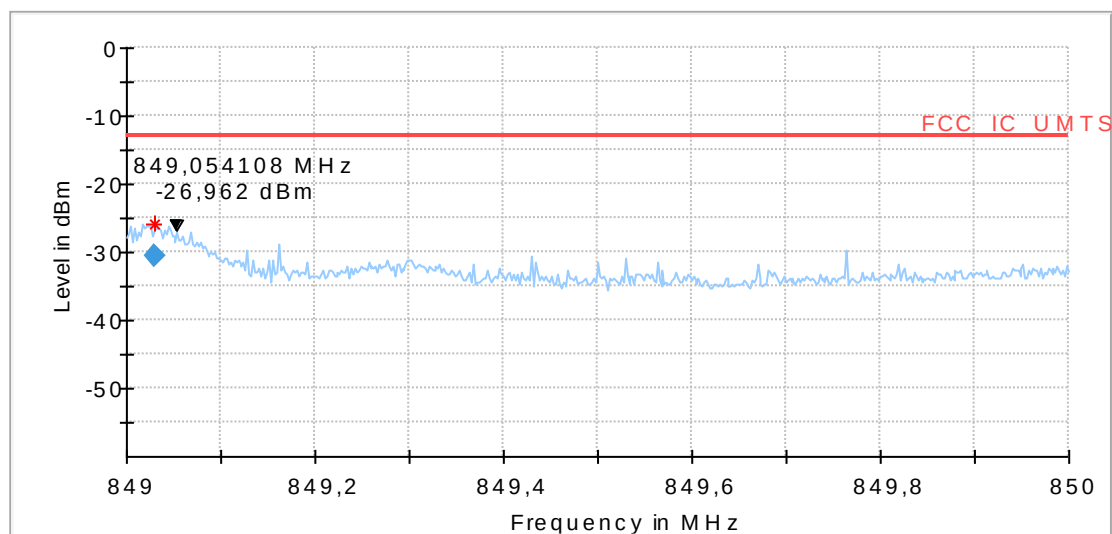
Common Information

Test Description:	Band-Edge I - 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 f= 848 Mhz
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Remarks:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
849.029990	-13.00	17.61	500.0	H	189.0	90.0	-76.0

2.4.2. External antenna

9.52_BE_R_Ch4132

Common Information

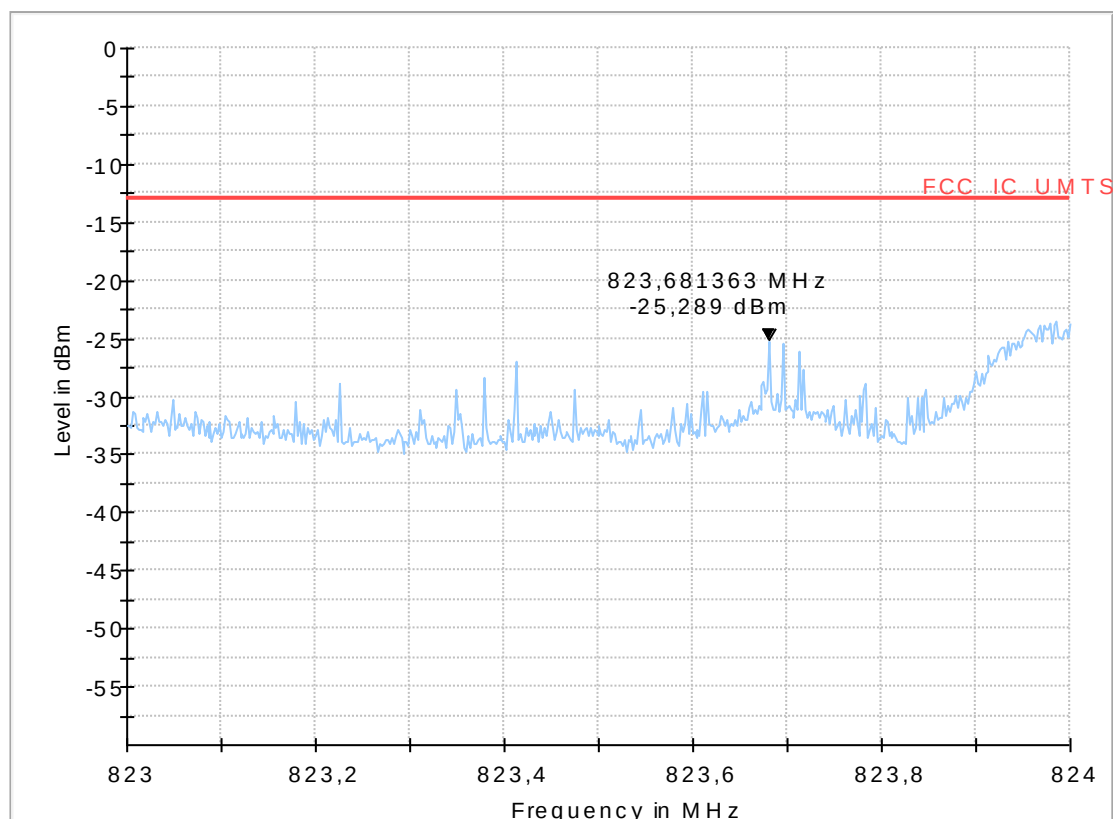
Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4132($f_c = 826.6\text{MHz}$)
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	Hla/KMo

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3. Measurement diagrams for LTE technology

3.1. Spurious emissions radiated (LTE Band 2)

3.1.1. External antenna

8.20_RSE_R_CH18607_BW_1_4

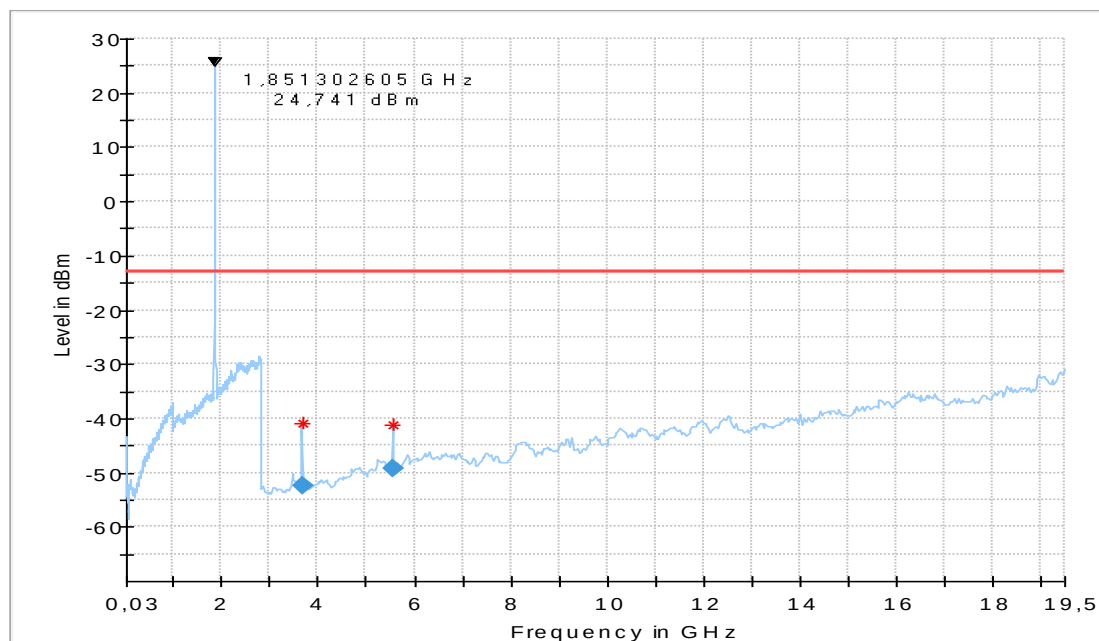
Common Information

Test Description:	Radiated Spurious Emissions LTE FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 18706(fc =1850.7MHz),BW=1.4 MHz, RB=1,
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	Hla/KMo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
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)
3670.354710	-52.28	-13.00	39.28	10000.0	1000.000	155.0	V	343.0	90.0	-94.8
5545.076152	-49.32	-13.00	36.32	10000.0	1000.000	155.0	V	278.0	0.0	-89.9

3.1.2. Internal antenna

8.22_RSE_R_Ch19193_BW_1_4_QPSK

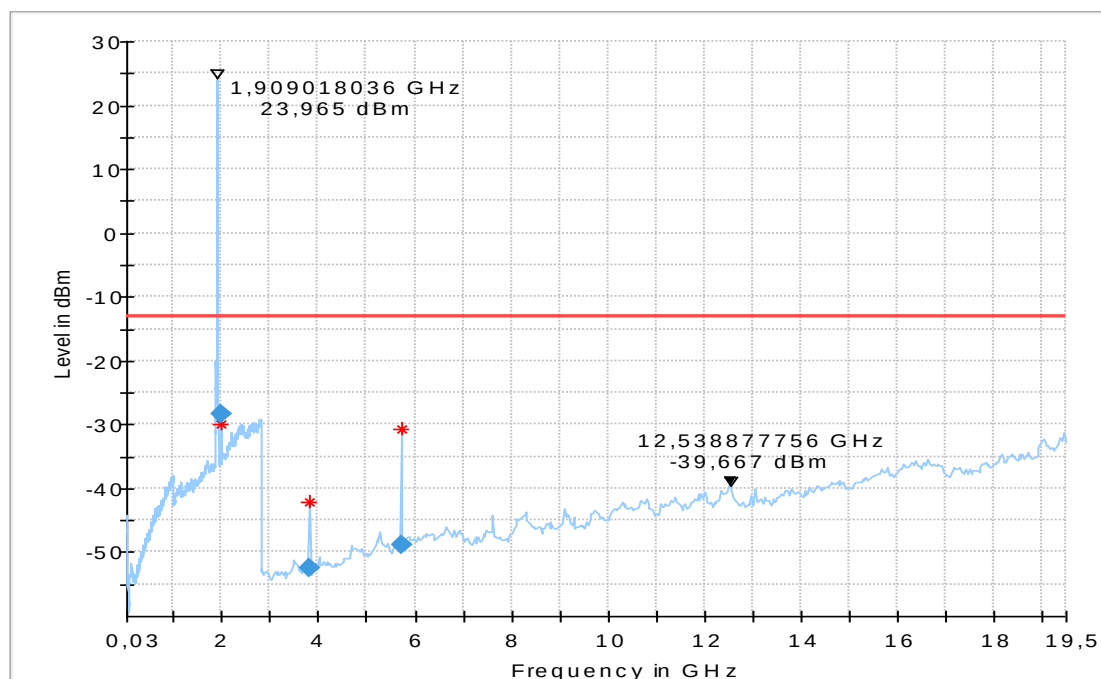
Common Information

Test Description:	Radiated Spurious Emissions LTEII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 19193($f_c = 1909,3\text{MHz}$), BW=1,4 MHz, RB=1, high, QPSK
Environmental Conditions:	Humidity: 36%rH; Temperature: 22°C
Operator:	MFr

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1988.863728	-13.00	15.39	1000.0	H	263.0	90.0	-62.2
3804.282565	-13.00	39.40	10000.0	V	348.0	90.0	-95.2
5712.410822	-13.00	35.83	10000.0	V	288.0	0.0	-89.5

3.2. Spurious emissions radiated (LTE Band 4)

3.2.1. External antenna

8.40_RSE_R_CH19957_BW_1_4

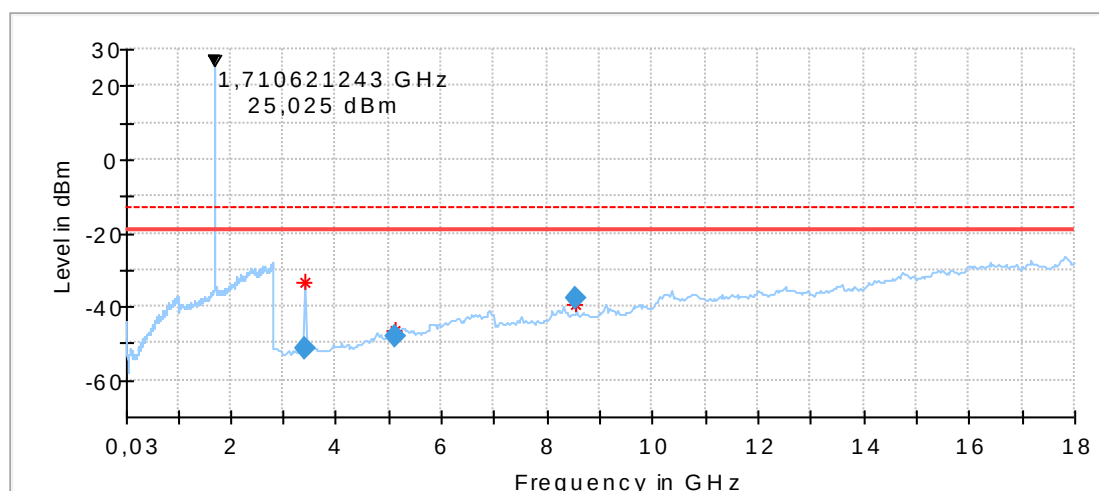
Common Information

Test Description:	Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 27.53 / RSS-139
Comm. Link:	LTE Band 4
Operating Mode:	UE allocated channel 19957 (fc =1710.7MHz),BW=1.4 MHz, RB=1 LOW,Modulation=QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	Kmo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3404.739479	-51.68	-19.00	32.68	1000.0	155.0	H	6.0	90.0	-95.3
5116.583166	-48.15	-19.00	29.15	1000.0	155.0	H	286.0	90.0	-90.7
8555.801604	-37.49	-19.00	18.49	1000.0	155.0	V	5.0	90.0	-82.8

3.2.2. Internal antenna

8.42_RSE_R_CH20393_BW_1_4

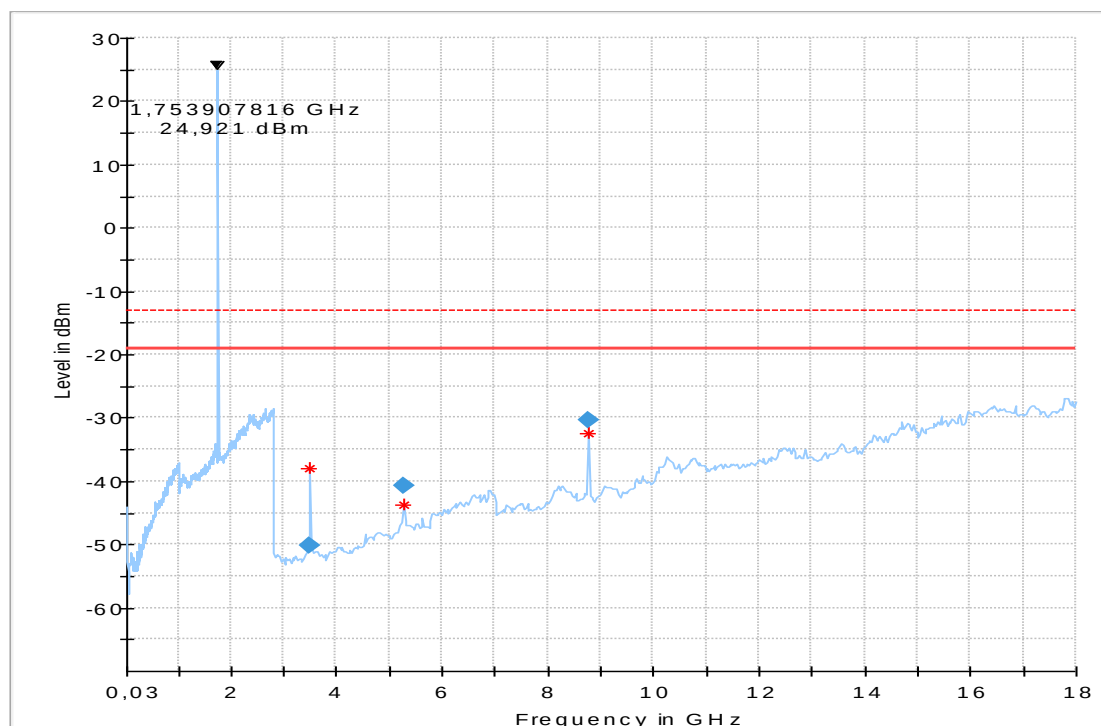
Common Information

Test Description:	Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 27.53 / RSS-139
Comm. Link:	LTE Band 4
Operating Mode:	UE allocated channel 20393 (fc =1754.3MHz),BW=1.4 MHz, RB=1
	High,Modulation=QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr
Comments:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
-----	-----
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3502.515031	-50.23	-19.00	31.23	1000.0	155.0	V	48.0	90.0	-93.5
5264.318637	-40.63	-19.00	21.63	1000.0	155.0	H	44.0	90.0	-88.5
8773.797595	-30.43	-19.00	11.43	1000.0	155.0	H	26.0	90.0	-83.1

3.3. Spurious emissions radiated (LTE Band 5)

3.3.1. External antenna

8.50_RSE_R_Ch20407_BW_1_4

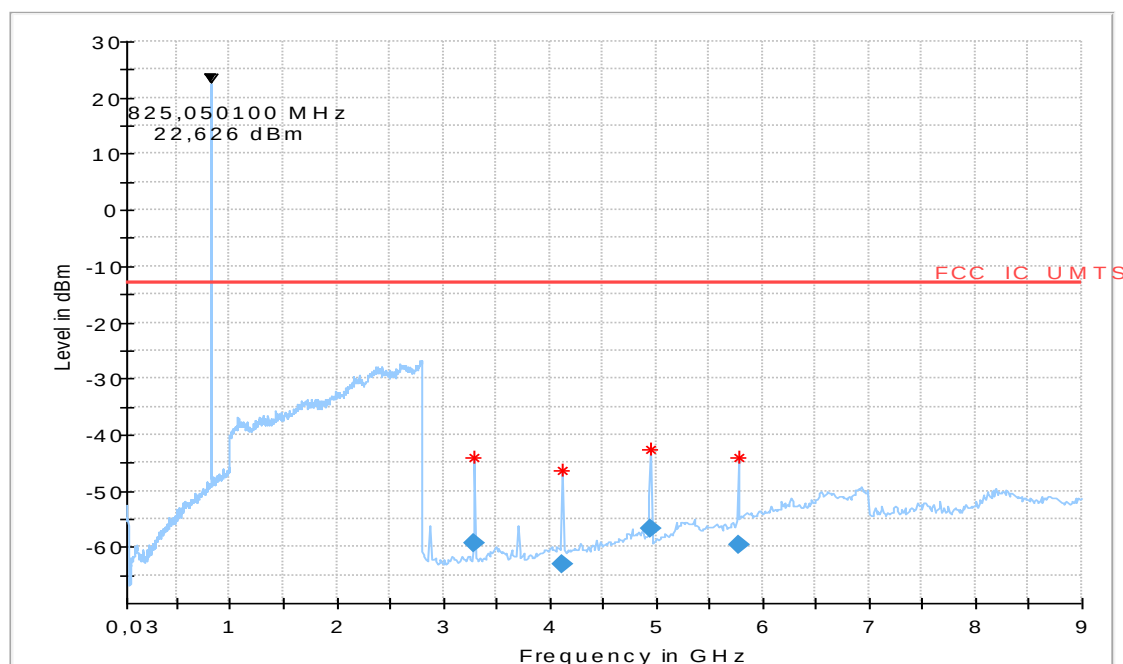
Common Information

Test Description:	Radiated Spurious Emissions LTE V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22
Operating Mode:	UE allocated channel 20407($f_c = 824,7\text{MHz}$), BW=1.4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 36%rH; Temperature: 22°C
Operator:	MFr
Comment:	externe Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3297.064128	-13.00	46.27	1000.0	V	295.0	90.0	-95.7
4121.312625	-13.00	50.19	1000.0	V	42.0	90.0	-93.3
4945.581162	-13.00	43.79	1000.0	V	117.0	90.0	-90.9
5769.849699	-13.00	46.52	1000.0	V	119.0	90.0	-88.7

3.3.2. Internal antenna

8.52_RSE_R_Ch20643_LTE5

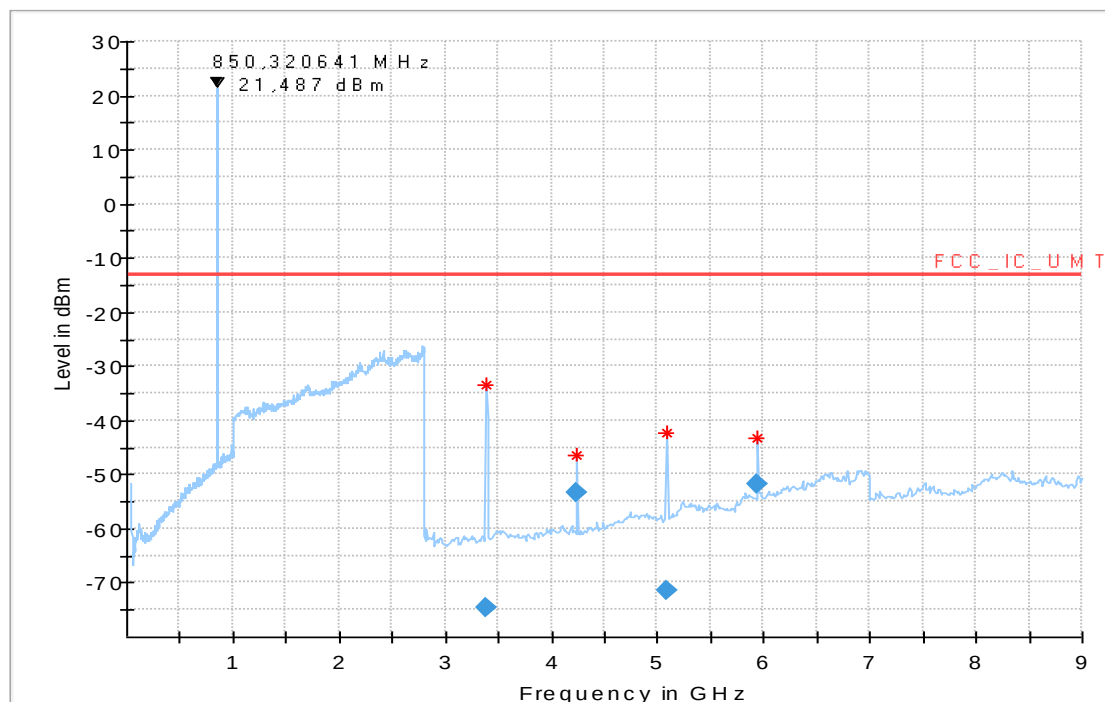
Common Information

Test Description:	Radiated Spurious Emissions LTE V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20643(f _c =848,3MHz), BW=10 MHz, RB=1, High, QPSK
Environmental Conditions:	Humidity: 36%rH; Temperature: 22°C
Operator:	MFr
Comments:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3383.577154	-13.00	61.55	1000.0	V	317.0	90.0	-95.5
4243.817635	-13.00	40.22	1000.0	V	44.0	90.0	-93.5
5087.825652	-13.00	58.50	1000.0	V	160.0	90.0	-90.9
5941.332665	-13.00	38.77	1000.0	V	110.0	90.0	-88.1

3.4. Spurious emissions radiated (LTE Band 17)

3.4.1. External antenna

8.171_RSE_R_CH23737_BW5_LTE17_External

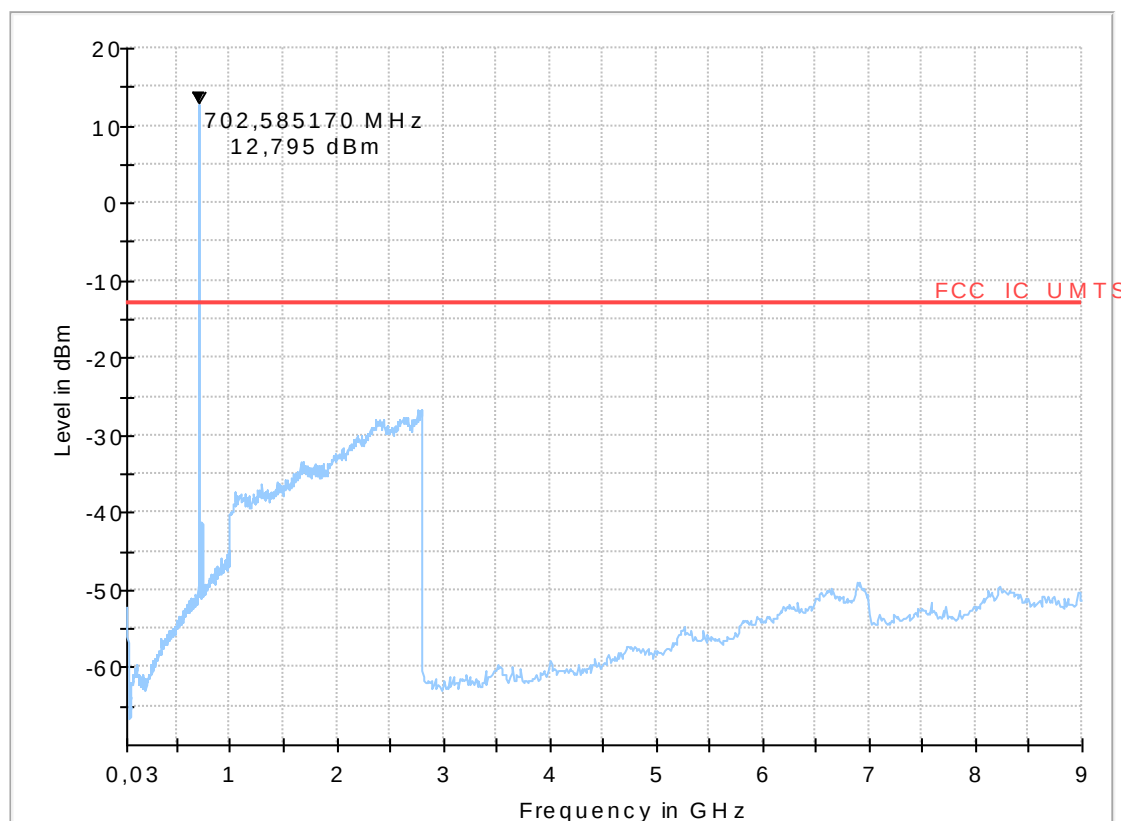
Common Information

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 23737($f_c = 704,7\text{MHz}$), BW=1,4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	AHo
Comments	With External Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.4.2. Internal antenna

8.173_RSE_R_CH23843_BW5_LTE17

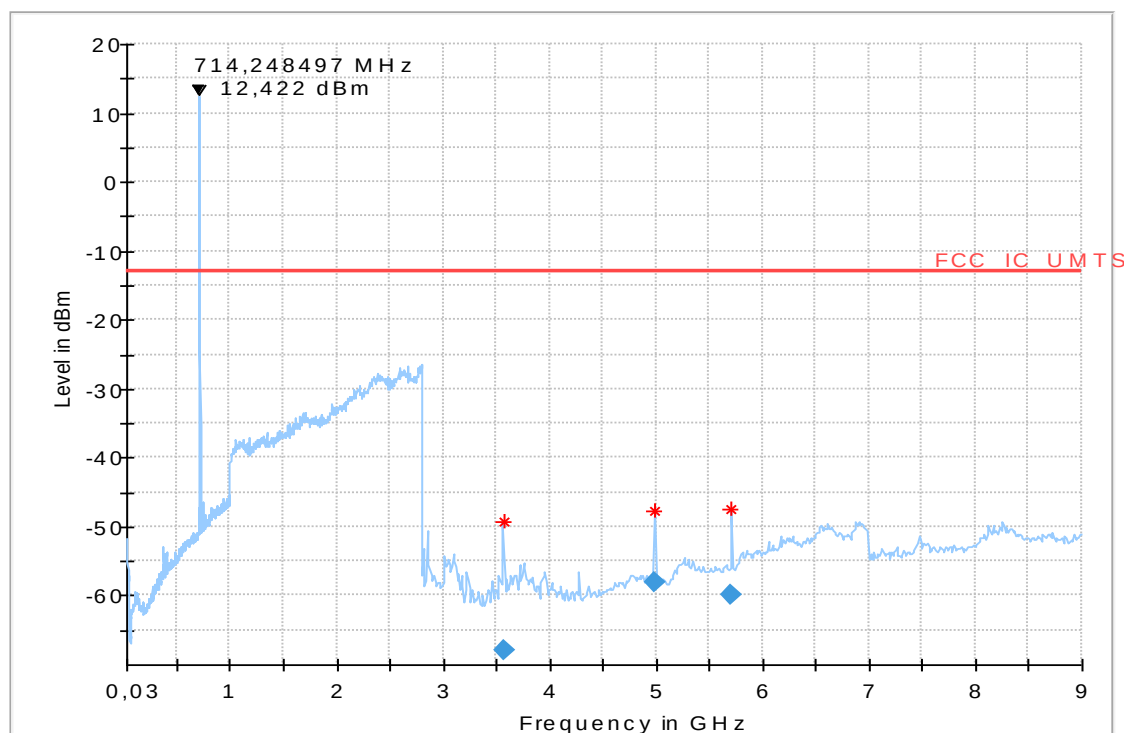
Common Information

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 23843(f _c =715,3MHz), BW=1.4 MHz, RB=1, High, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3565.295592	-13.00	54.91	1000.0	H	288.0	90.0	-94.2
4991.868737	-13.00	45.07	1000.0	V	111.0	90.0	-91.1
5705.205411	-13.00	46.86	1000.0	V	120.0	90.0	-89.6

3.5. Radiated emissions – band-edge (LTE Band 2)

3.5.1. External antenna – Low Band-Edge

3.5.1.1. Channel 18607, QPSK, 1RBs

9.20a_BE_R_Ch18607_1RB_low_BW_1_4_QPSK

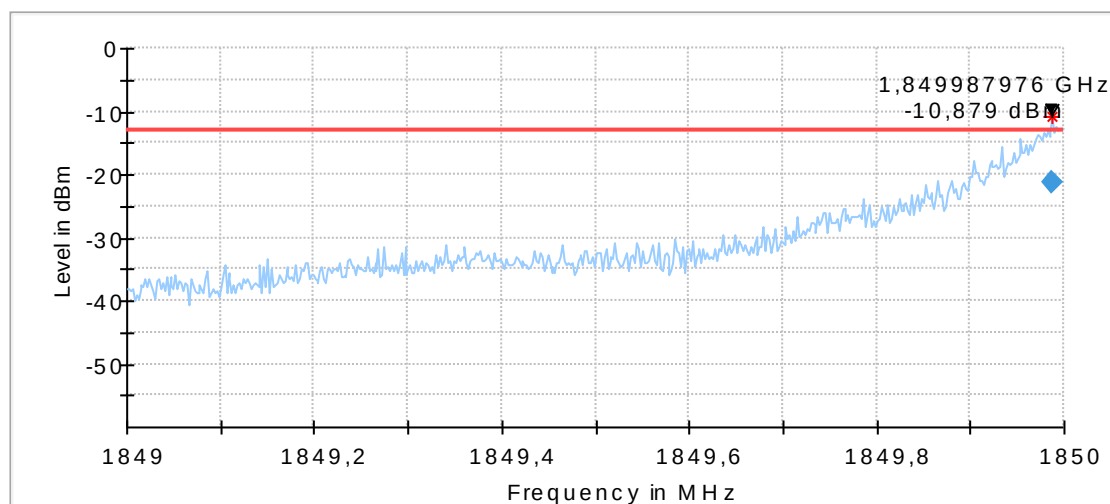
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 18607(fc =1850MHz), BW=1,4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
-----	-----
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.5.1.2. Channel 18607, 16-QAM, 1RBs

9.20b_BE_R_Ch18607_1RB_low_BW_1_4_QAM

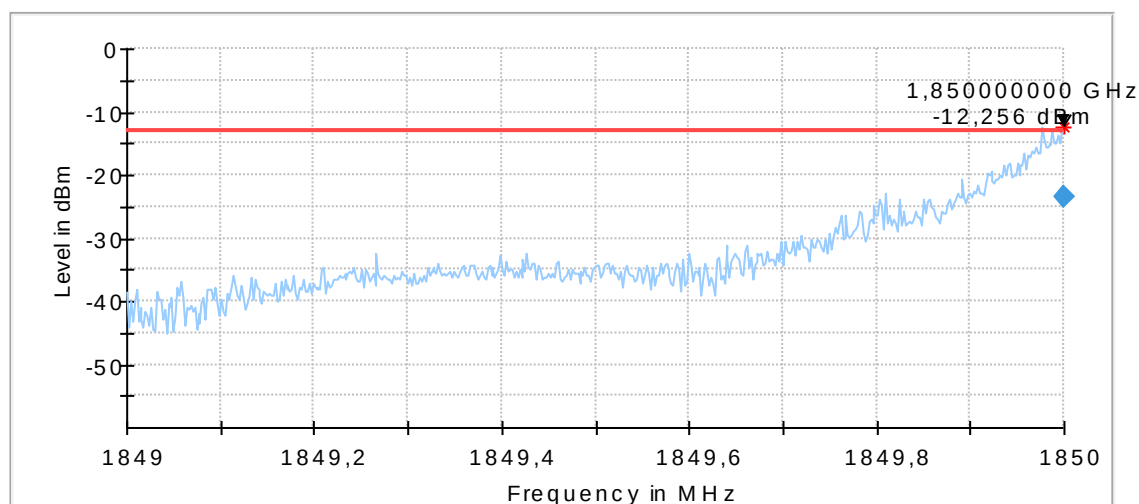
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 18607($f_c = 1850\text{MHz}$), BW=1,4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.5.1.3. Channel 18607, QPSK, 6RBs

9.21a_BE_R_Ch18607_6RB_low_BW_1_4_QPSK

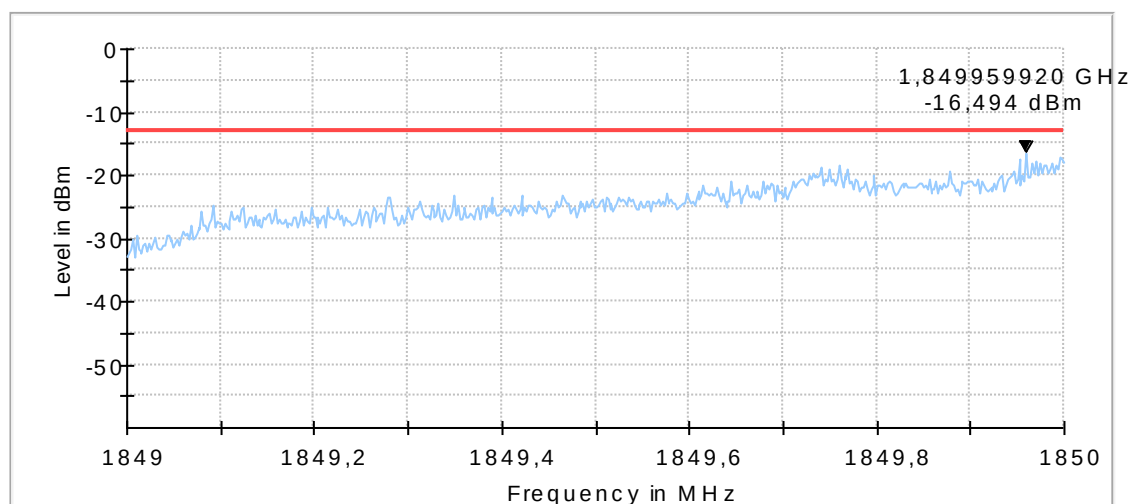
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 18607($f_c = 1850\text{MHz}$), BW=1,4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.5.1.4. Channel 18607, 16-QAM, 6RBs

9.21b_BE_R_Ch18607_6RB_low_BW_1_4_QAM

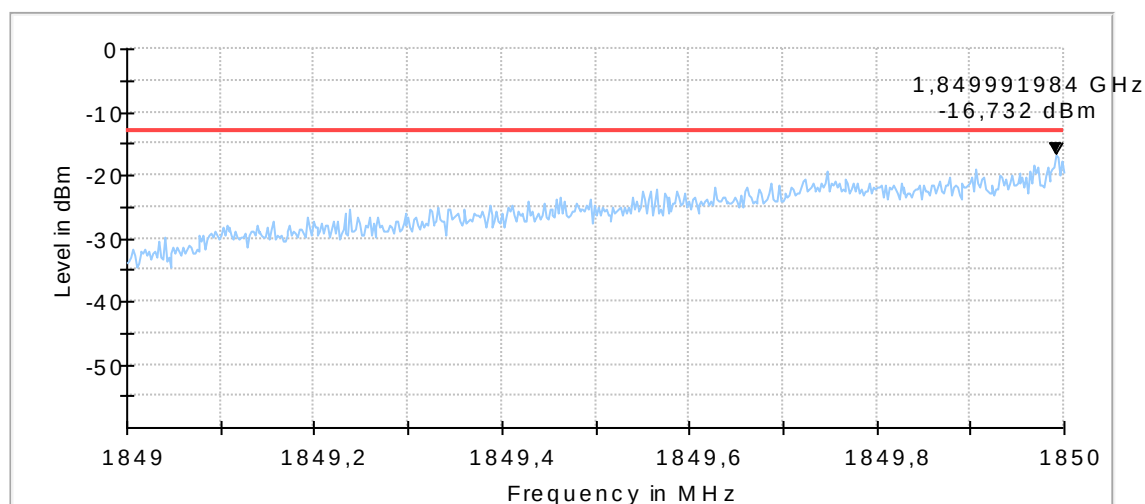
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 18607($f_c = 1850\text{MHz}$), BW=1,4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.5.2. Internal antenna – High Band-edge

3.5.2.1. Channel 19193, QPSK, 1RBs

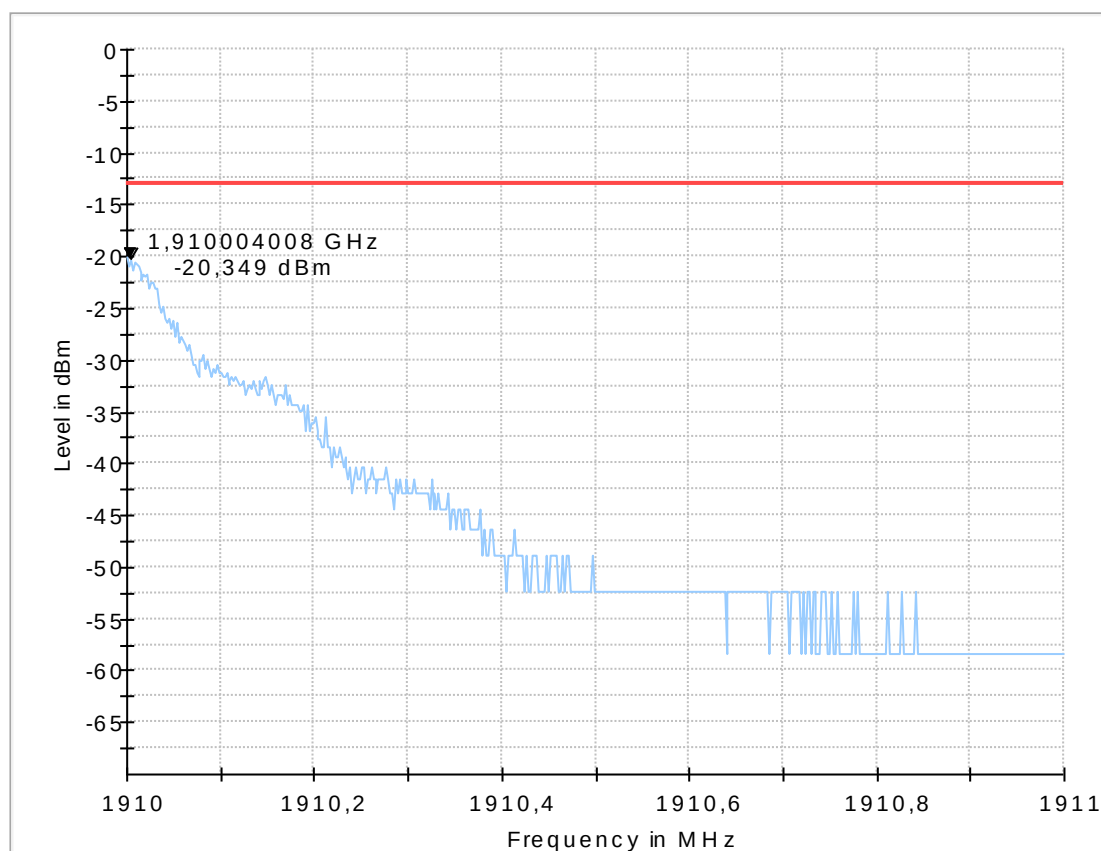
9.22a_BE_R_CH19193_1RB_high_QPSK

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 19193($f_c = 1909,3\text{MHz}$), BW=1,4 MHz, RB=1, high, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator Name:	HLA
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



3.5.2.2. Channel 19193, 16-QAM, 1RBs

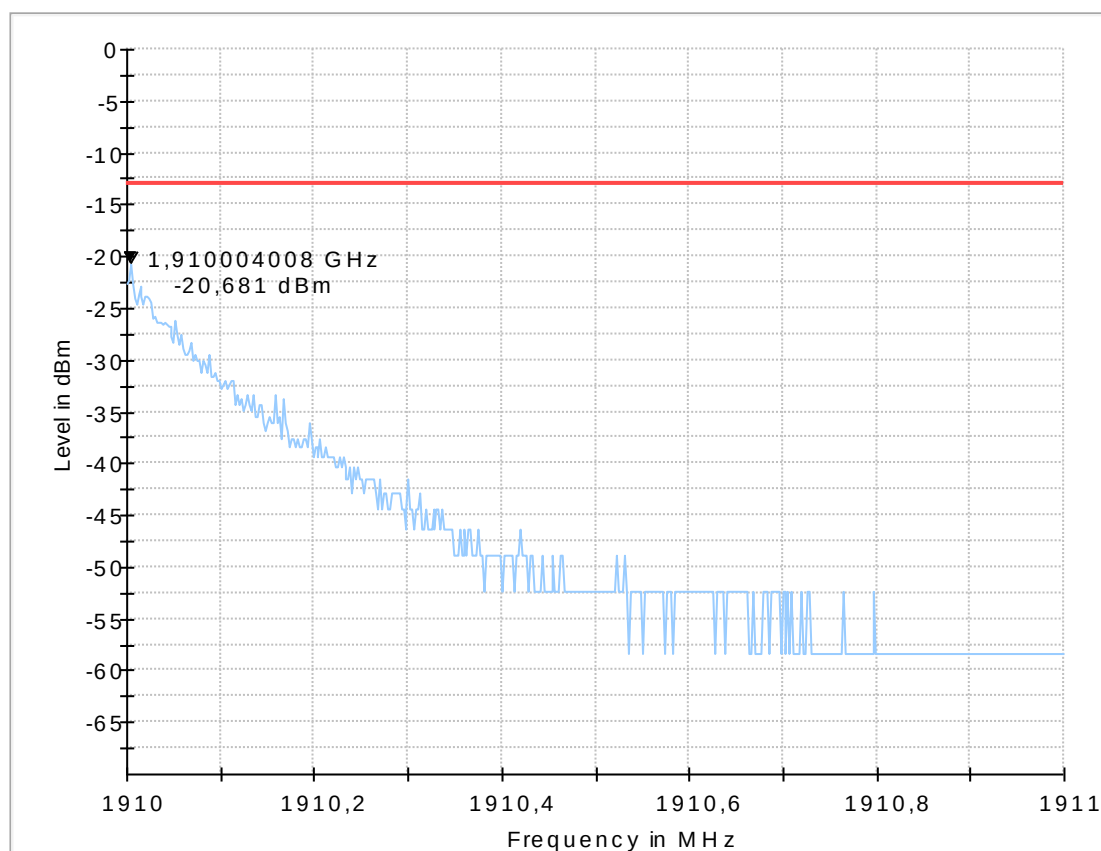
9.22b_BE_R_CH19193_1RB_high_QAM

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 19193($f_c = 1909,3\text{MHz}$), BW=1,4 MHz, RB=1, high, QAM
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator Name:	HLA
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



3.5.2.3. Channel 19193, QPSK, 6RBs

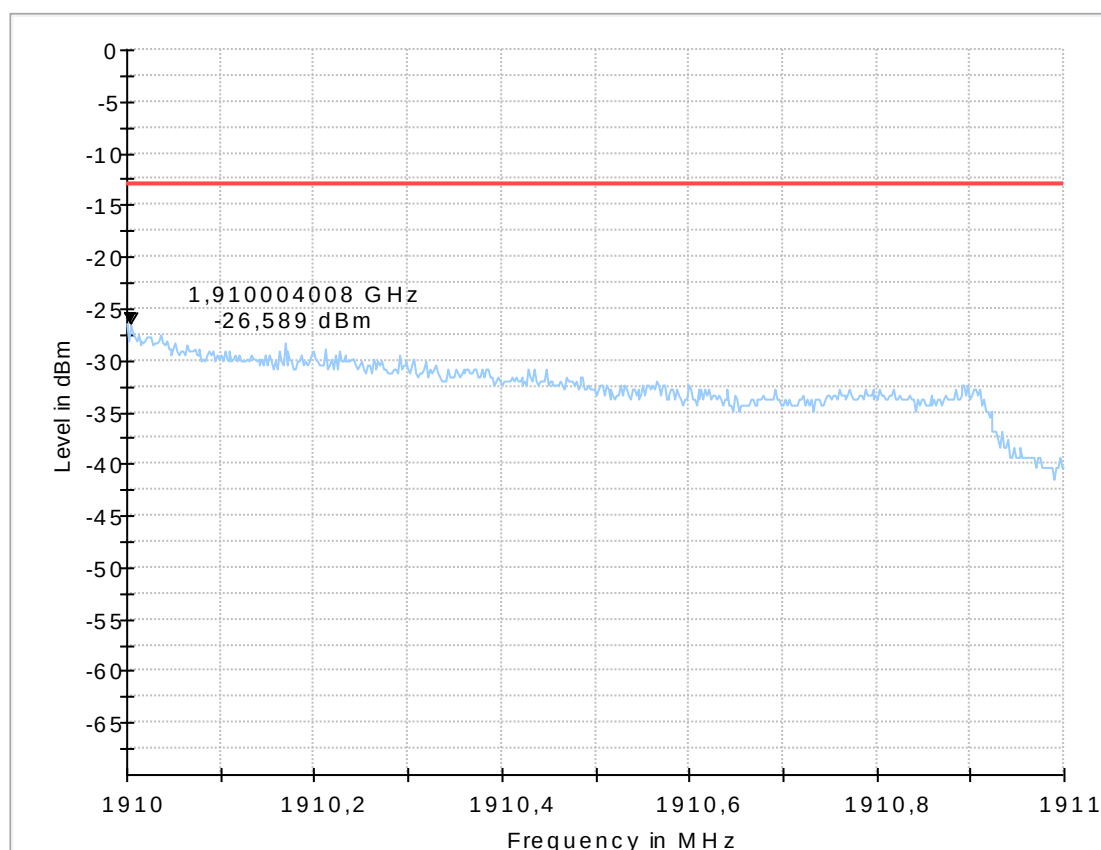
Diagram No.: 9.23a_BE_R_CH19193_6RB_BW_1_4_QPSK

Common Information

Test Description:	12.01.2016 11:45:01 Radiated Band Edge Compliance LTE IV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR), EMC32 V9.21.0
Test specification:	FCC Part 24
Operating Mode:	UE allocated channel 19193($f_c = 1909,3\text{ MHz}$), BW=1,4 MHz, RB=1, high, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator Name:	HLA
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



3.5.2.4. Channel 19193, 16-QAM, 6RBs

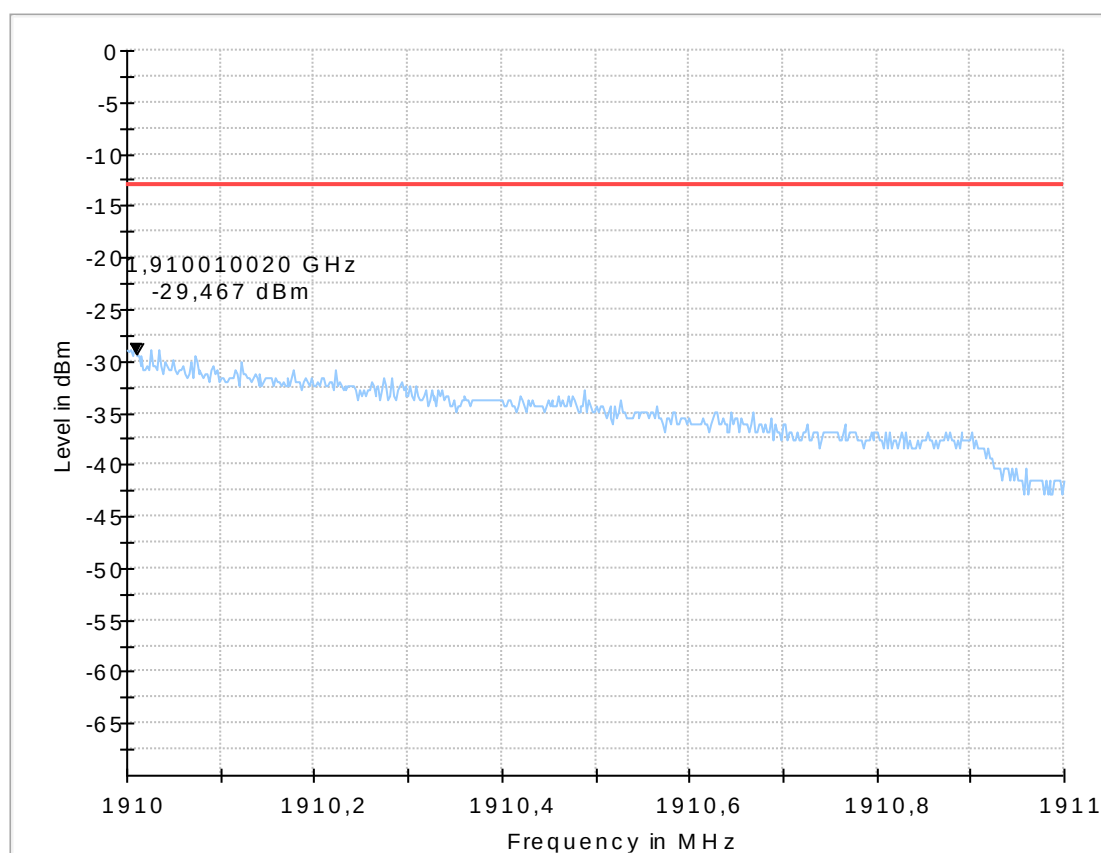
Diagram No.: 9.23b_BE_R_CH19193_6RB_BW_1_4_QAM

Common Information

Test Description:	12.01.2016 11:34:09
Test Site Location:	Radiated Band Edge Compliance LTE IV
Test Site:	CETECOM GmbH Essen
Test specification:	Fully Anechoic Room (FAR), EMC32 V9.21.0
Operating Mode:	FCC Part 24
	UE allocated channel 19193($f_c = 1909,3\text{MHz}$), BW=1,4 MHz, RB=1, high, QAM
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator Name:	HLA
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
-----	-----
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



3.6. Radiated emissions – band-edge (LTE Band 4)

3.6.1. External Antenna - Low Band-Edge

3.6.1.1. Channel 19957, QPSK, 1RBs

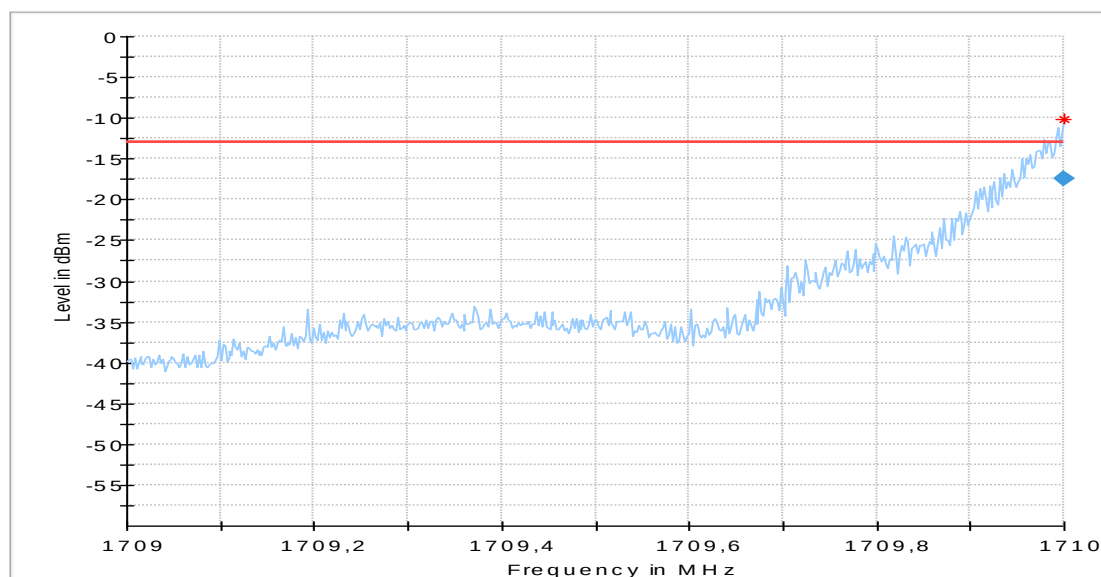
9.40_BE_R_CH19957_1RBlow_BW1_4_QPSK

Common Information

Test Description	Radiated Band Edge Compliance LTE IV
Test Site/Location	Test Site
Test Standard	Fully Anechoic Room (FAR)
Test Case	FCC Part 24.232(c) - Limitation of mobile transmitters
Operating Mode	MS allocated channel 19957 (fc = 1710,7), 1RB , low, QPSK
Environmental Conditions	Humidity: 36%rH; Temperature: 22°C
Operator	MFr

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Correction (dB)
1710.000000	-17.48	-13.00	4.48	100.0	20.000	155.0	H	252.0	90.0	-63.4

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

Frequency (MHz)	Comment
1710.000000	16:08:20 - 07.01.2016

3.6.1.2. Channel 19957, 16-QAM, 1RBs

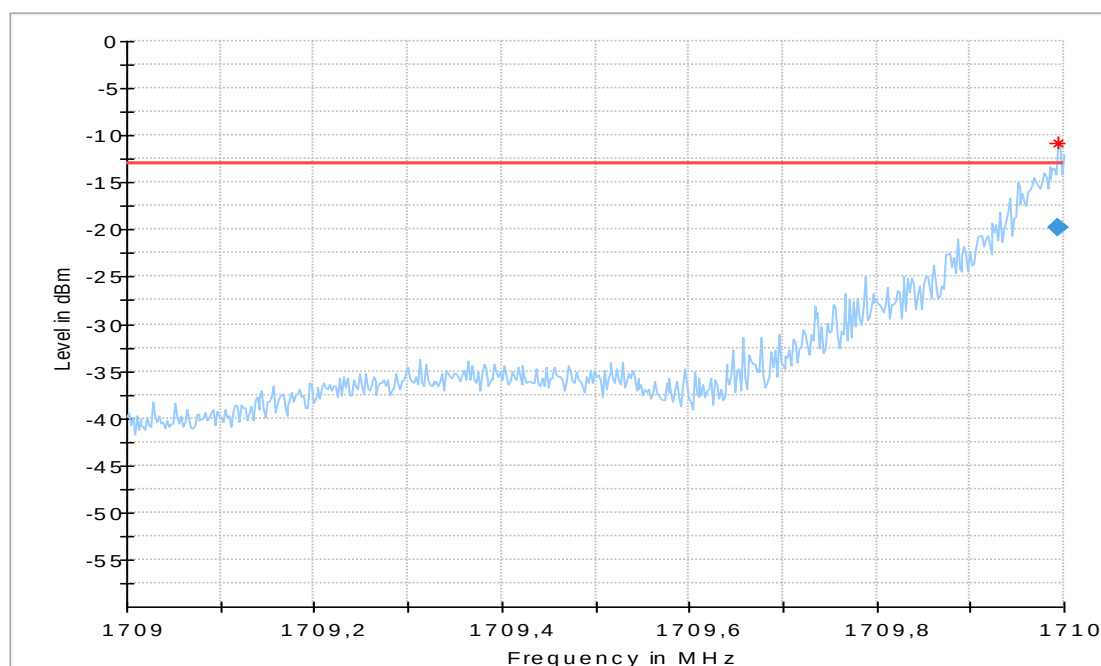
9.40b_BE_R_CH19957_1RB_low_BW1_4_QAM

Common Information

Test Description	Radiated Band Edge Compliance LTE IV
Test Site Location	Test Site
Test Standard	Fully Anechoic Room (FAR)
Test Case	FCC Part 24.232(c) - Limitation of mobile transmitters
Operating Mode	MS allocated channel 19957 (fc = 1710,7), 1RB , low, QAM
Environmental Conditions	Humidity: 36%rH; Temperature: 22°C
Operator	MFr

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Correction (dB)
1709.993988	-19.83	-13.00	6.83	100.0	20.000	155.0	H	251.0	90.0	-63.3

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

Frequency (MHz)	Comment
1709.993988	16:30:49 - 07.01.2016

3.6.1.3. Channel 19957, QPSK, 6RBs

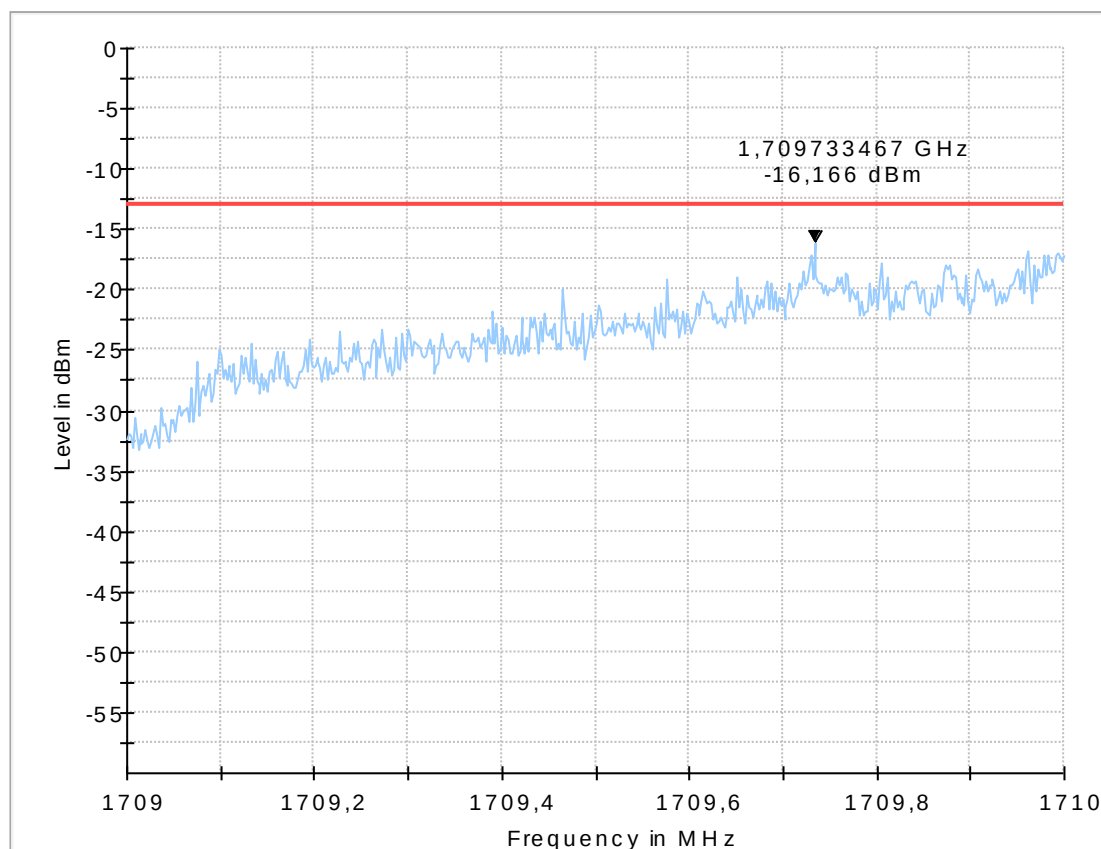
9.41a_BE_R_CH19957_6RB_BW1_4_QPSK

Common Information

Test Description	Radiated Band Edge Compliance LTE IV
Test Site/Location	Test Site
Test Standard	Fully Anechoic Room (FAR)
Test Case	FCC Part 24.232(c) - Limitation of mobile transmitters
Operating Mode	MS allocated channel 19957 (fc = 1710,7), 6RB ,QPSK
Environmental Conditions	Humidity: 36%rH; Temperature: 22°C
Operator	MFr

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



3.6.1.4. Channel 19957, 16-QAM, 6RBs

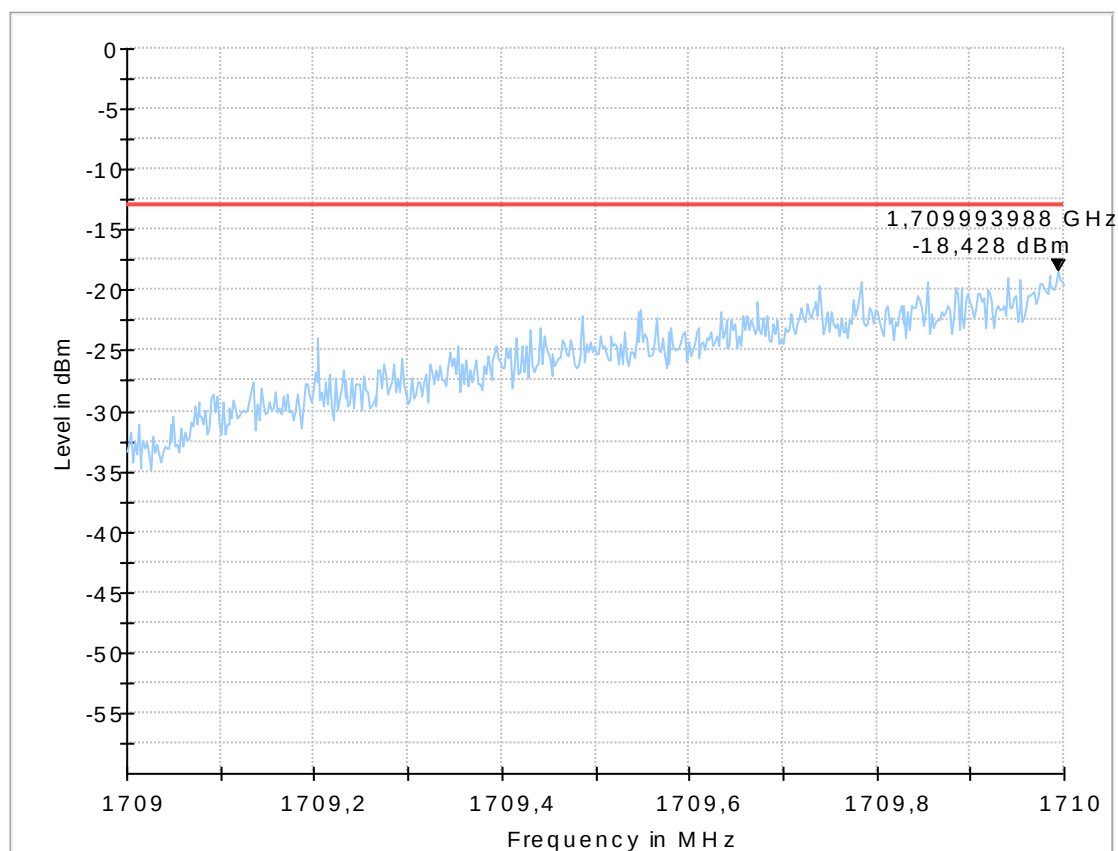
9.41b_BE_R_CH19957_16RB_BW1_4_QAM

Common Information

Test Description	Radiated Band Edge Compliance LTE IV
Test Site/Location	Test Site
Test Standard	Fully Anechoic Room (FAR)
Test Case	FCC Part 24.232(c) - Limitation of mobile transmitters
Operating Mode	MS allocated channel 19957 (fc = 1710,7), 16RB ,QAM
Environmental Conditions	Humidity: 36%rH; Temperature: 22°C
Operator	MFr

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



3.6.2. Internal antenna - High Band-Edge

3.6.2.1. Channel 20393, QPSK, 1RBs

9.42a_BE_R_Ch20393_1RB_high_BW_1_4_QPSK

Common Information

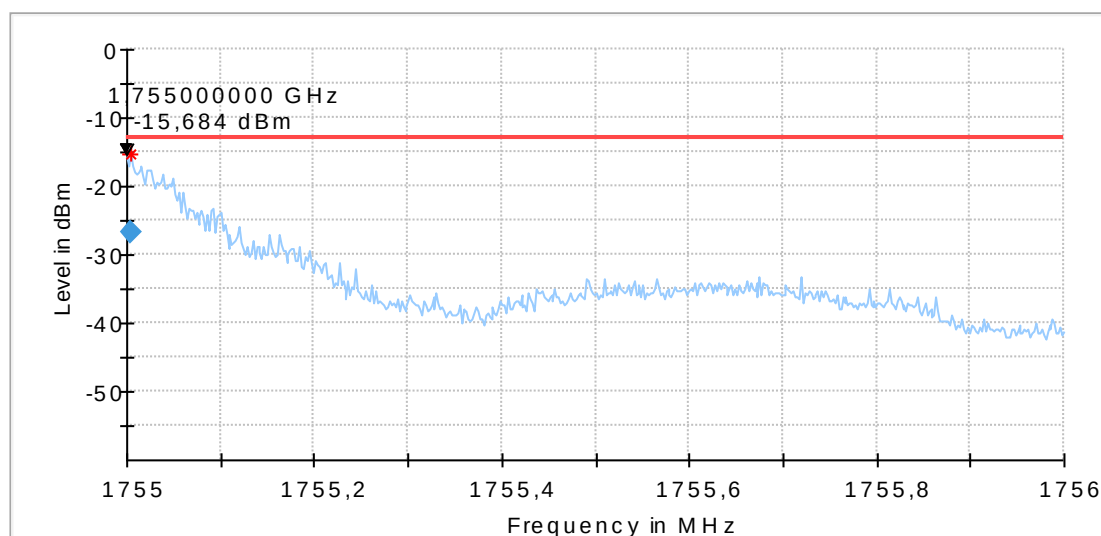
Test Description:	Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	LTE Band 4
Operating Mode	UE allocated channel 20393 (fc =1754.3MHz),BW=1.4 MHz, RB=1 high ,Modulation=QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	MFr

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Comment
1755.004008	-	13.89	100.0	155.0	V	321.0	45.0	-63.6	22:13:06 - 07.01.2016

3.6.2.2. Channel 20393, 16-QAM, 1RBs

9.42b_BE_R_Ch20393_1RB_high_BW_1_4_QAM

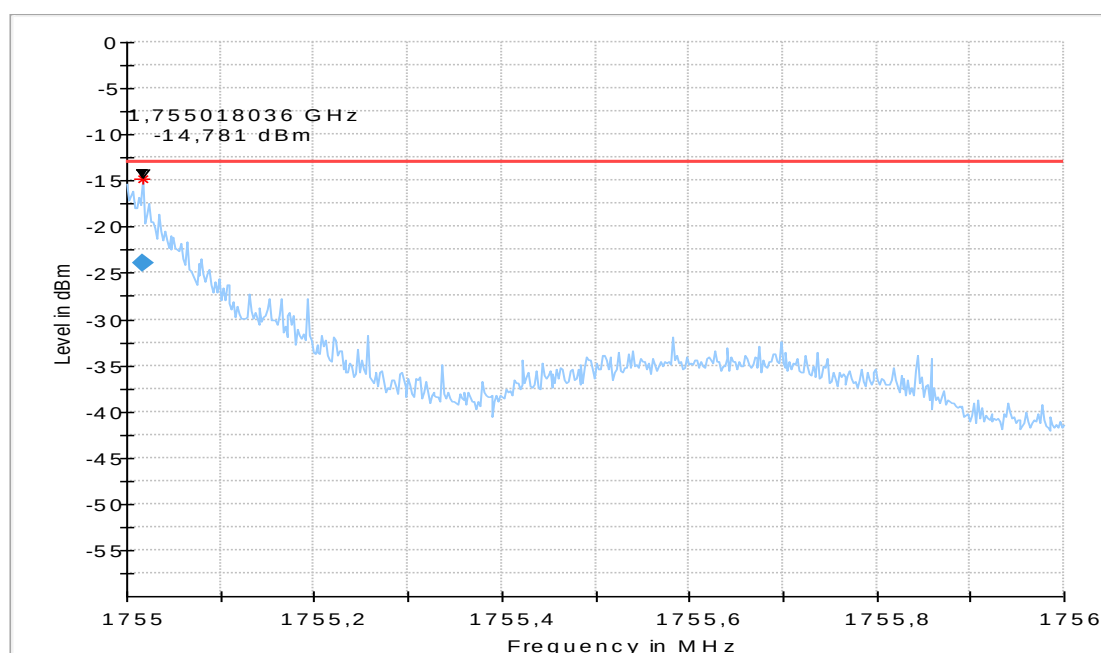
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location	CETECOM GmbH Essen
Test Site	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard	FCC Part 22 / RSS-133
Operating Mode	UE allocated channel 20393($f_c = 1754,3,7\text{MHz}$), $BW=1,4\text{ MHz}$, $RB=1$, high, 16QAM
Operating Conditions:	Humidity: 36%rH; Temperature: 22°C
Operator Name:	MFr
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW

HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Correction (dB)
1755.018036	-23.88	-13.00	10.88	100.0	20.000	155.0	V	305.0	90.0	-63.6

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

Frequency (MHz)	Comment
1755.018036	18:18:49 - 11.01.2016

3.6.2.3. Channel 20393, QPSK, 6RBs

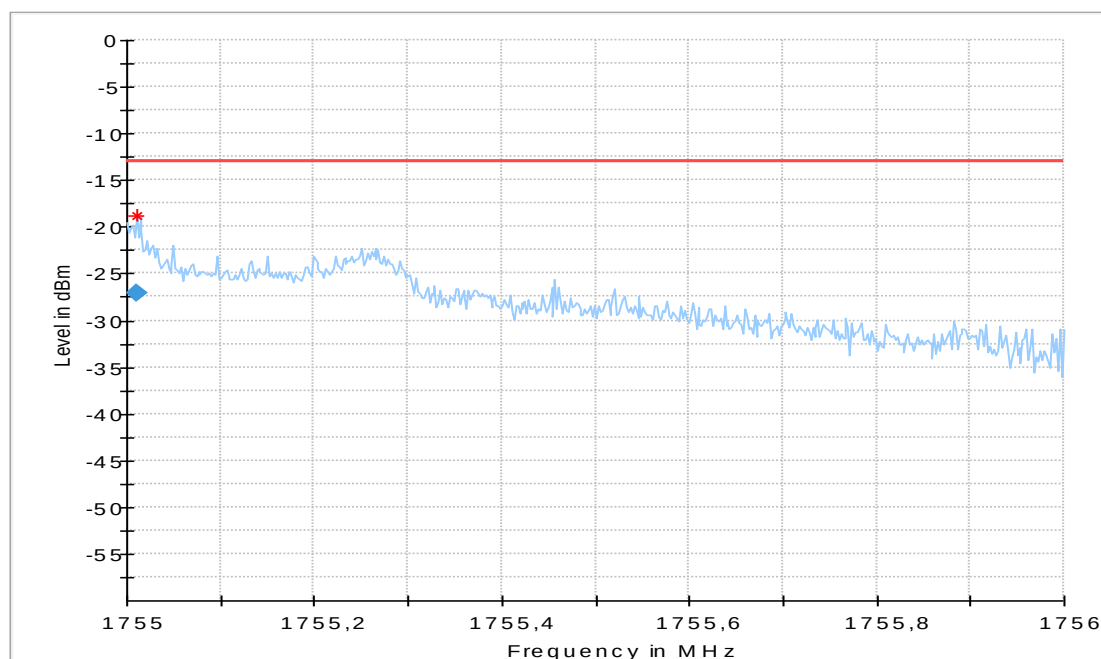
9.43a_BE_R_Ch20393_6RB_high_BW_1_4_QPSK

Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location	CETECOM GmbH Essen
Test Site	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard	FCC Part 22 / RSS-133
Operating Mode	UE allocated channel 20393($f_c = 1754,3,7\text{MHz}$), BW=1,4 MHz, RB=6, high, QPSK
Operating Conditions:	Humidity: 36%rH; Temperature: 22°C
Operator Name:	MFr
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Correction (dB)
1755.010020	-27.11	-13.00	14.11	100.0	20.000	155.0	V	309.0	90.0	-63.6

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

Frequency (MHz)	Comment
1755.010020	18:45:45 - 11.01.2016

3.6.2.4. Channel 20393, 16-QAM, 6RBs

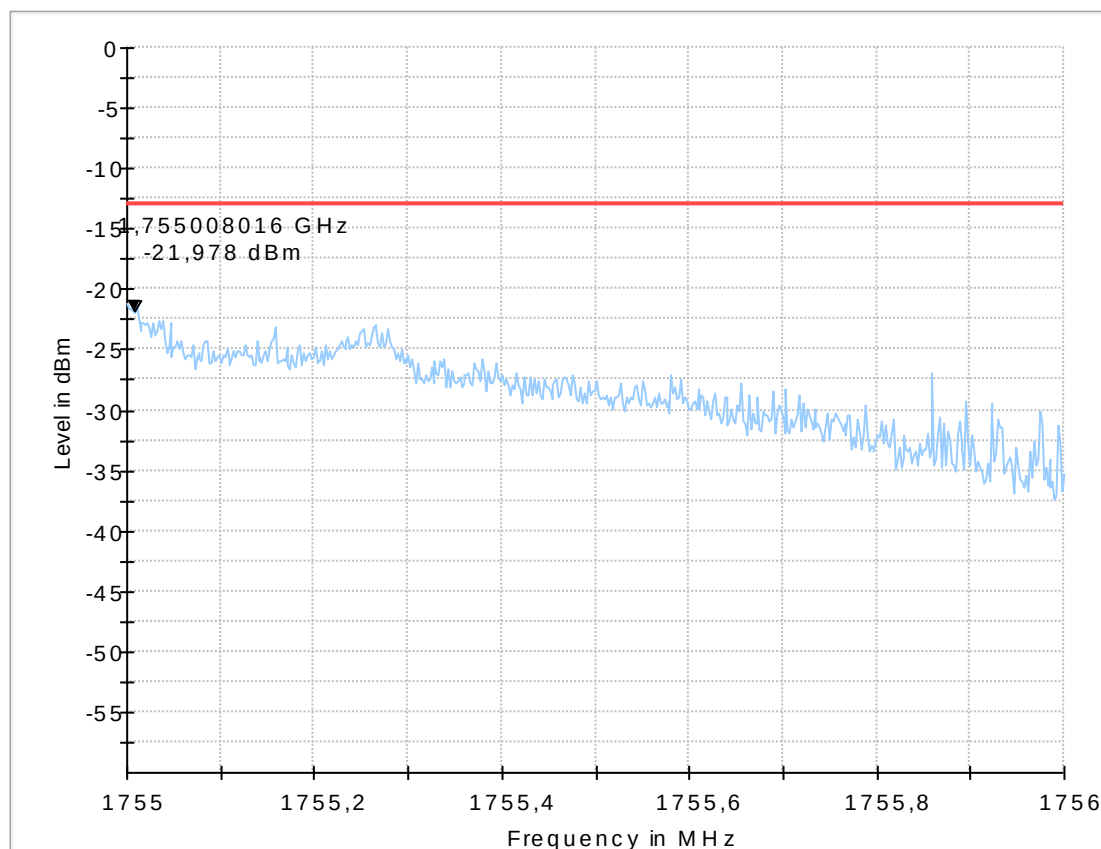
9.43b_BE_R_Ch20393_6RB_high_BW_1_4_QAM

Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 4
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	UE allocated channel 20393($f_c = 1754,3,7\text{MHz}$), BW=1,4 MHz, RB=6, high, QAM
Operating Conditions:	Humidity: 36%rH; Temperature: 22°C
Operator Name:	MFr
Comment:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	



3.7. Radiated emissions – band-edge (LTE Band 5)

3.7.1. External antenna - Low Band-Edge

3.7.1.1. Channel 20407, QPSK, 1RBs

9.500a_BE_R_Ch20407_1RB_low_BW_1_4_QPSK

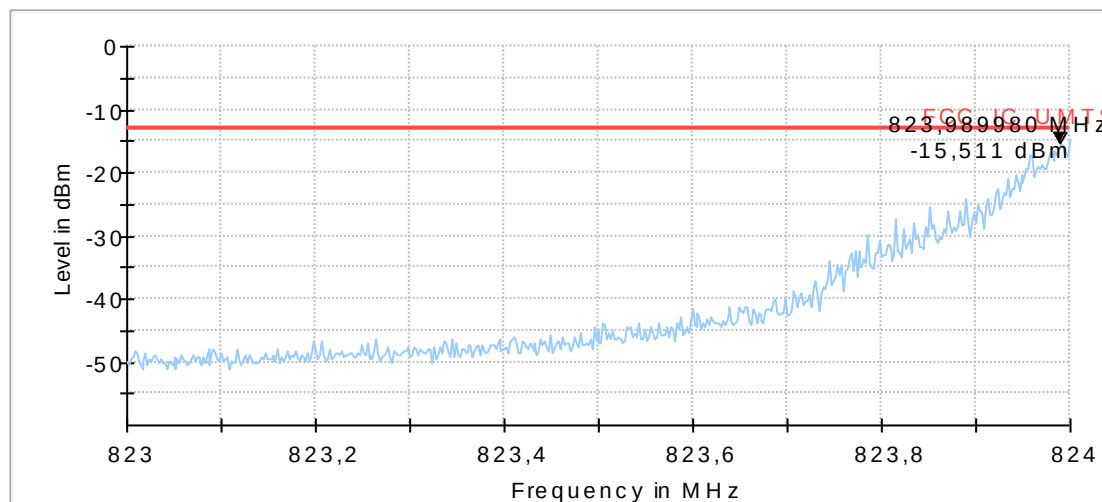
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20407($f_c = 824,7\text{MHz}$), BW=1,4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.7.1.2. Channel 20407, 16-QAM, 1RBs

9.500b_BE_R_Ch20407_1RB_low_BW_1_4_QAM

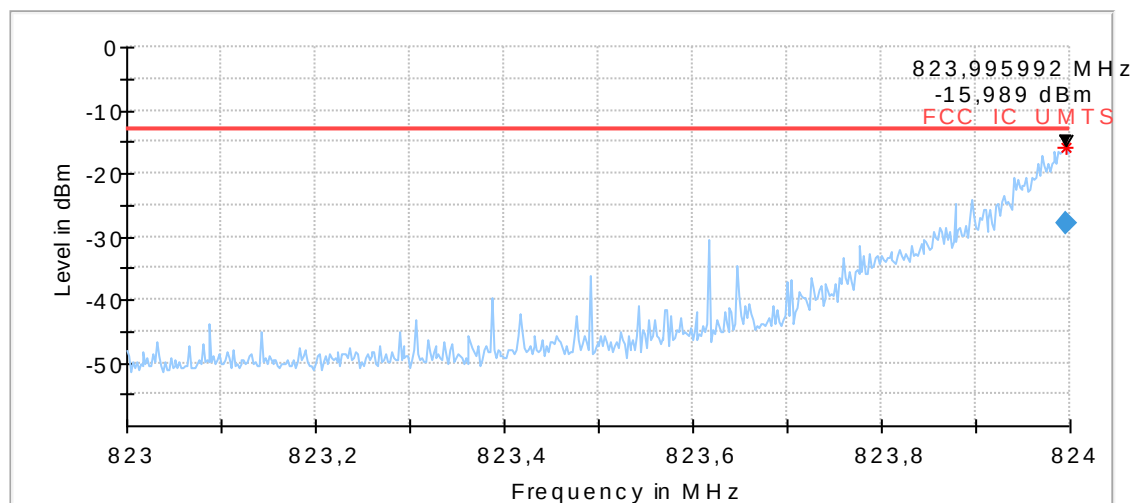
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20407($f_c = 824,7\text{MHz}$), BW=1,4 MHz, RB=1, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.7.1.3. Channel 20407, QPSK, 6RBs

9.501a_BE_R_Ch20407_6RB_low_BW_1_4_QPSK

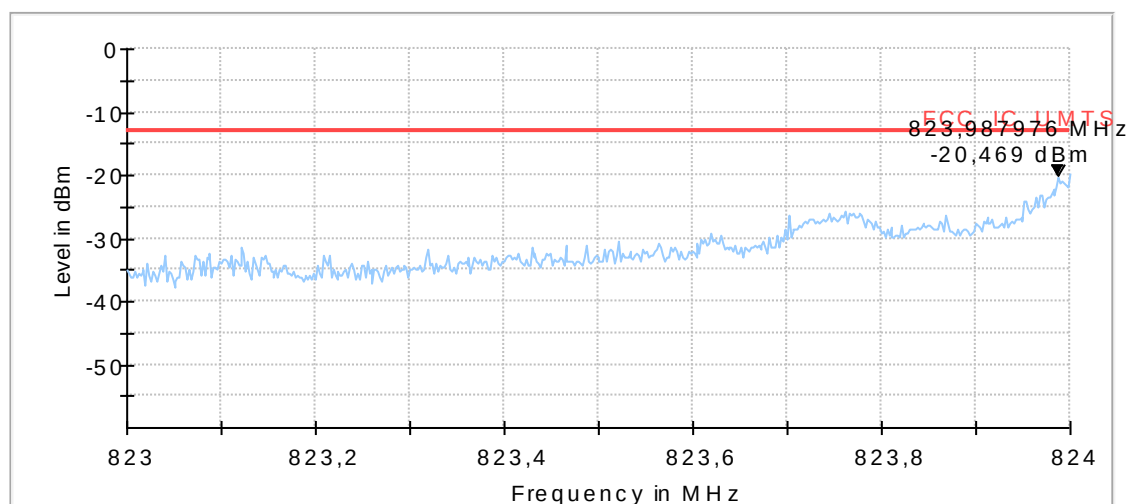
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20407($f_c = 824,7\text{MHz}$), BW=1,4 MHz, RB=6, Low, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.7.1.4. Channel 20407, 16-QAM, 6RBs

9.501b_BE_R_Ch20407_6RB_low_BW_1_4_QAM

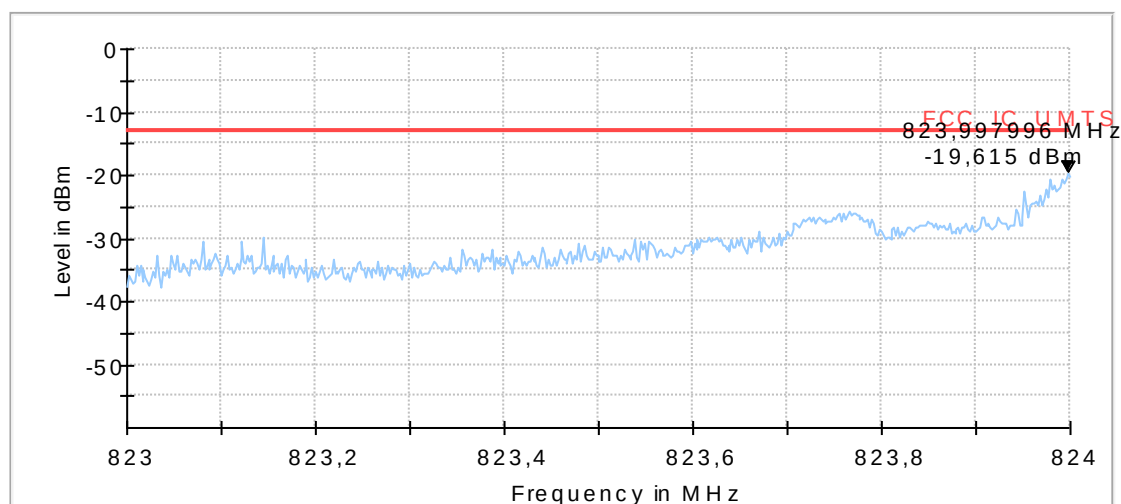
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20407($f_c = 824,7\text{MHz}$), BW=1,4 MHz, RB=6, Low, QAM
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.7.2. Internal antenna - High Band-Edge

3.7.2.1. Channel 20643, QPSK, 1RBs

9.502a_BE_R_Ch20643_1RB_high_BW_1_4_QPSK

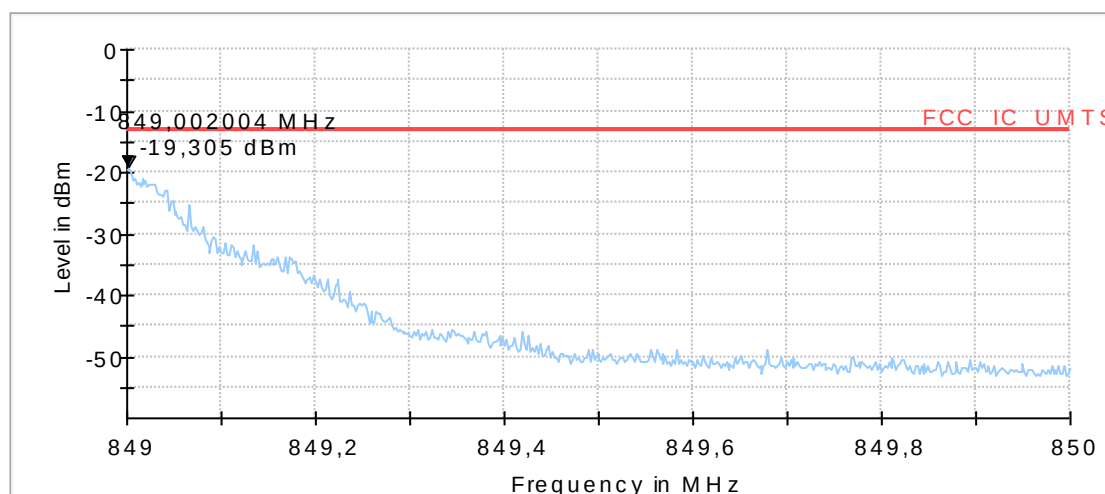
Common Information

Test Description:	Band-Edge high - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20643($f_c = 848,3\text{MHz}$), BW=1,4 MHz, RB=1, high, QPSK
Environmental Conditions:	Humidity: 36%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	MFr
Remarks:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.7.2.2. Channel 20643, 16-QAM, 1RBs

9.502b_BE_R_Ch20643_1RB_high_BW_1_4_QAM

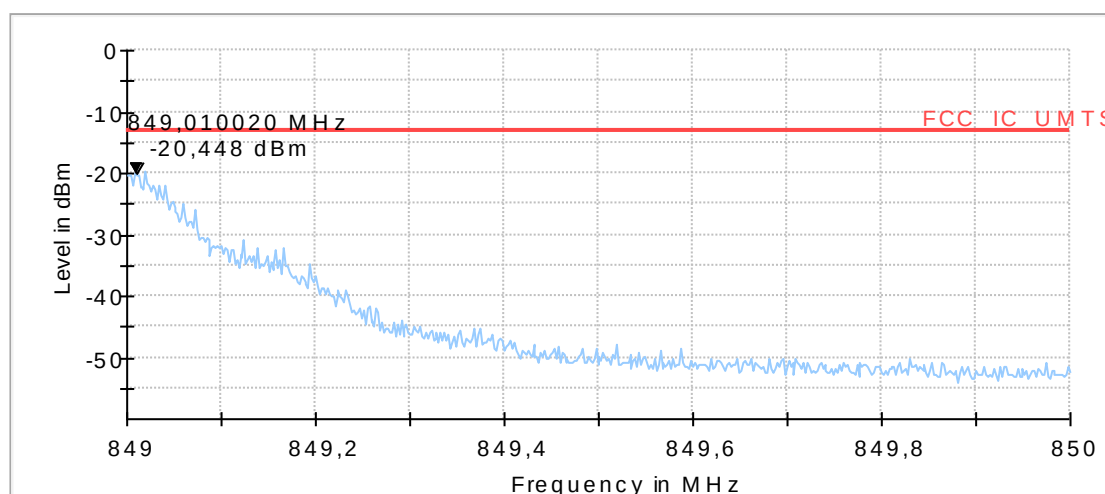
Common Information

Test Description:	Band-Edge high - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20643(fc =848,3MHz), BW=1,4 MHz, RB=1, high, QAM
Environmental Conditions:	Humidity: 36%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	MFr
Remarks:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.7.2.3. Channel 20643, QPSK, 6RBs

9.503a_BE_R_Ch20643_1RB_high_BW_1_4_QPSK

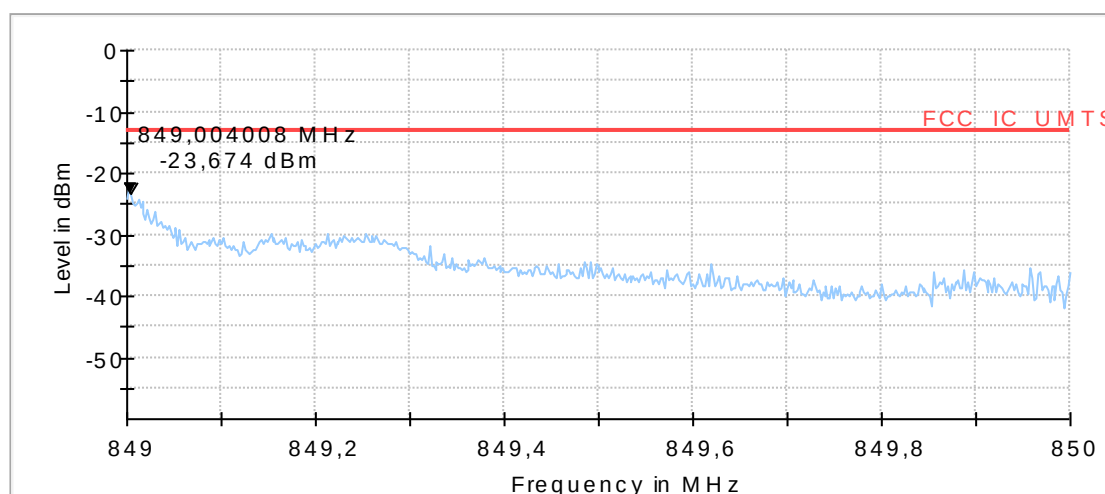
Common Information

Test Description:	Band-Edge high - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20643($f_c = 848,3\text{MHz}$), $BW=1,4\text{ MHz}$, $RB=6$, , QPSK
Environmental Conditions:	Humidity: 36%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	MFr
Remarks:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.7.2.4. Channel 20643, 16-QAM, 6RBs

9.503b_BE_R_Ch20643_6RB_BW_1_4_QAM

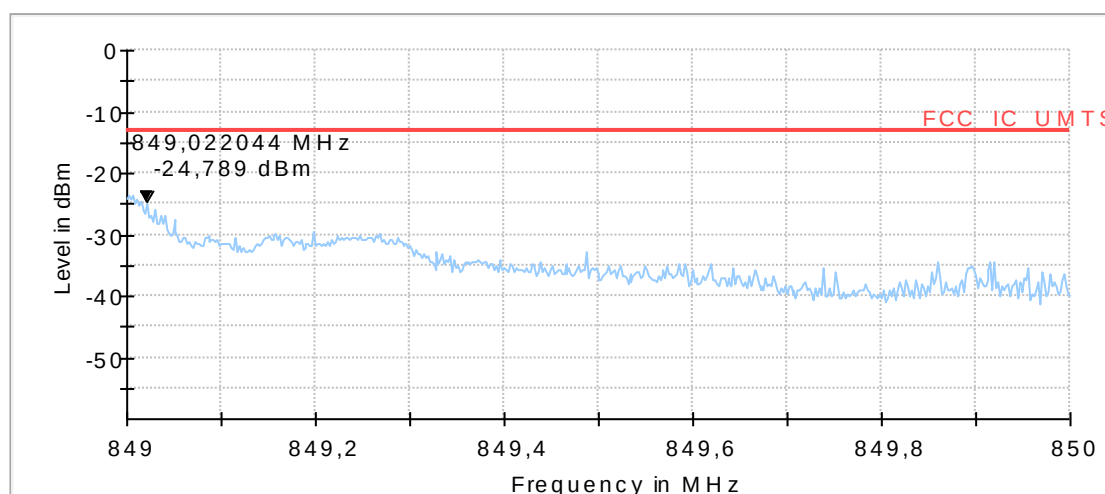
Common Information

Test Description:	Band-Edge high - Radiated Spurious Emissions LTE Band V
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 20643($f_c = 848,3\text{MHz}$), BW=1,4 MHz, RB=6, , QAM
Environmental Conditions:	Humidity: 36%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	MFr
Remarks:	Backup Antenna

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8. Radiated emissions – band-edge (LTE Band 17)

3.8.1. External antenna - Low Band-Edge

3.8.1.1. Channel 23755, QPSK, 1RBs

9.1701a_BE_R_CH23755_1RB_Low_QPSK_LTE17_External

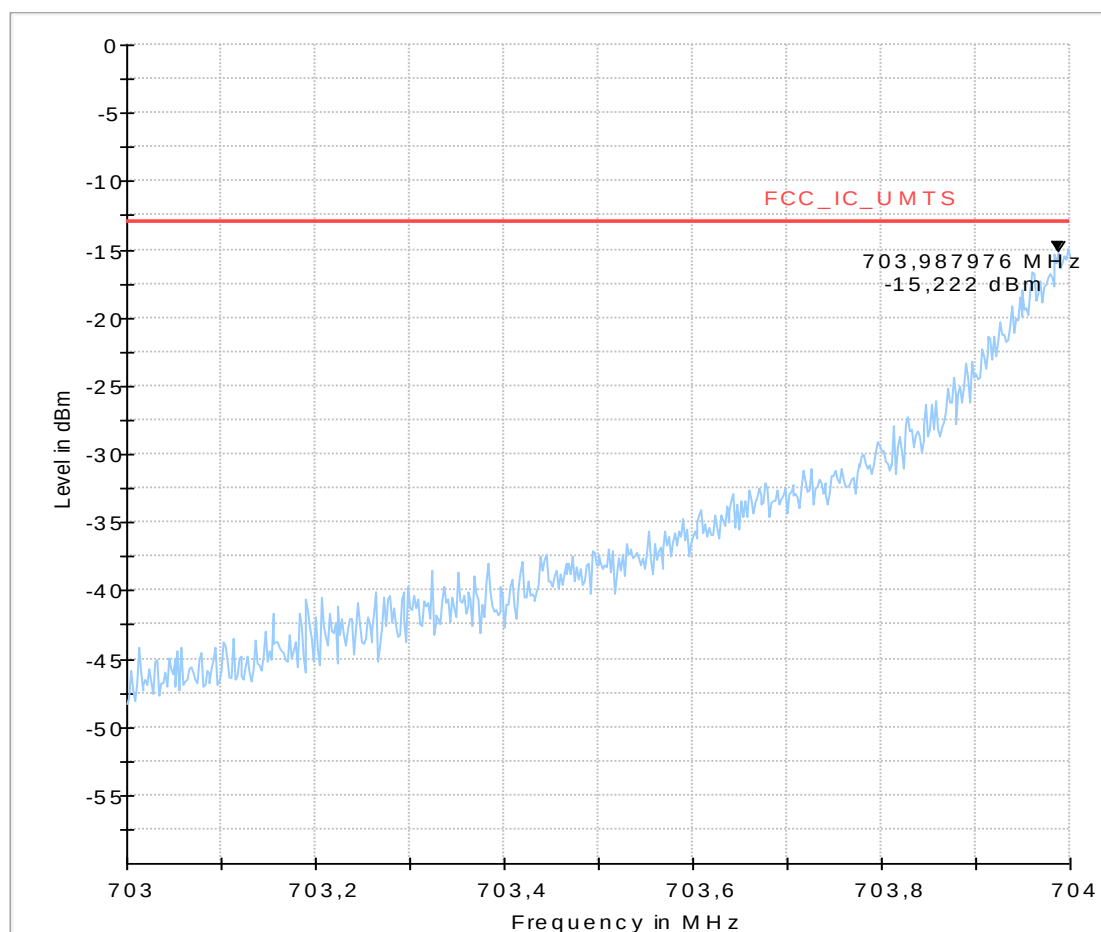
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	UE allocated channel 23755
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8.1.2. Channel 23755, 16-QAM, 1RBs

9.1701b_BE_R_CH23755_1RB_Low_16-QAM_LTE17_External

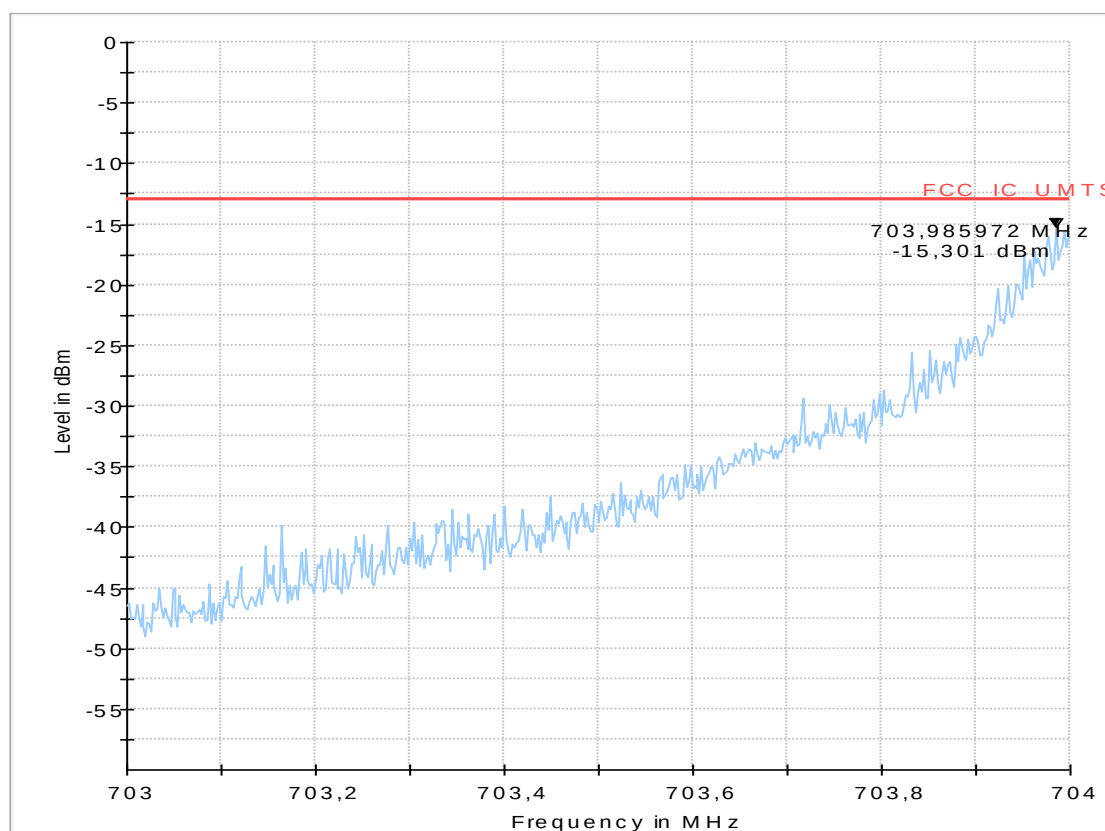
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	UE allocated channel 23755
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8.1.3. Channel 23755, QPSK, 25RBs

9.1702a_BE_R_CH23755_25RB_Low_QPSK_LTE17_External

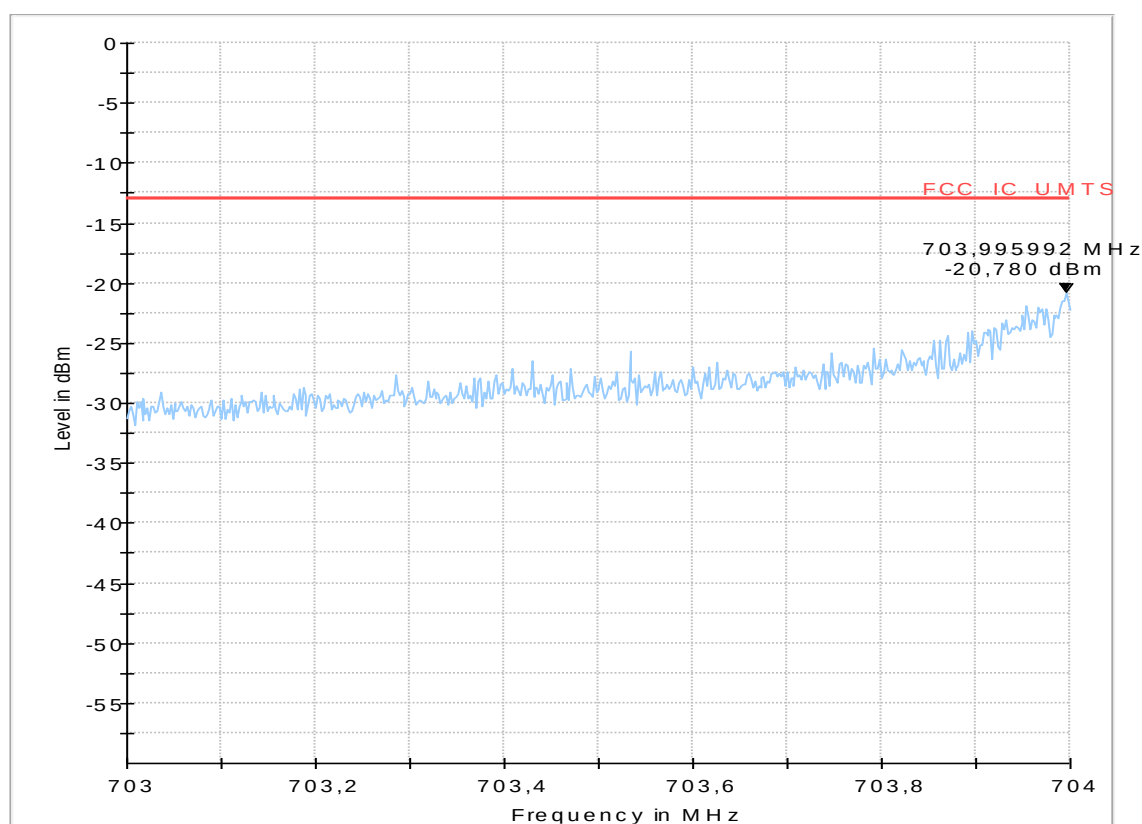
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	UE allocated channel 23755
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8.1.4. Channel 23755, 16-QAM, 25RBs

9.1702b_BE_R_CH23755_25RB_Low_16-QAM_LTE17_External

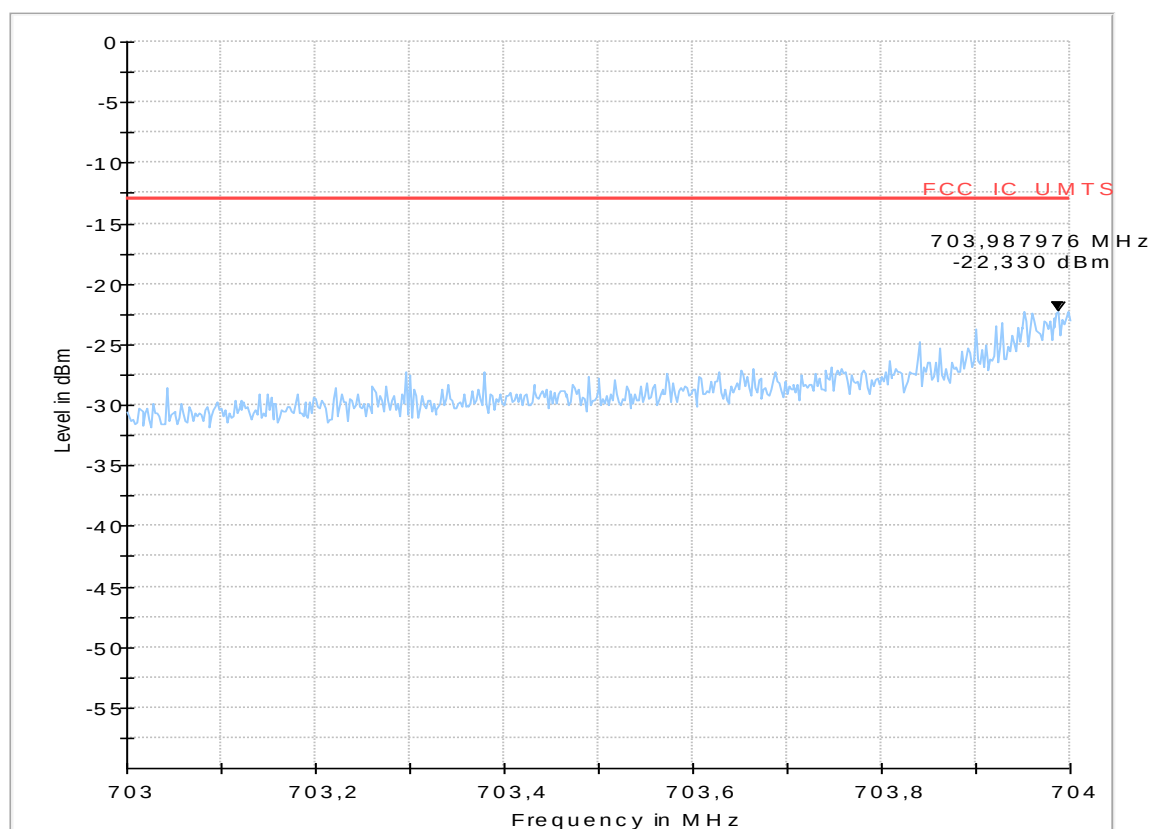
Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions LTE Band 17
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 22 / RSS-133
Operating Mode:	UE allocated channel 23755
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Test SW Version:	EMC32 V9.21.0
Operator:	AHo

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8.2. Internal antenna - High Band-Edge

3.8.2.1. Channel 23825, QPSK, 1RBs

9.1704a_BE_R_Ch23825_1RB_high_BW5_QPSK

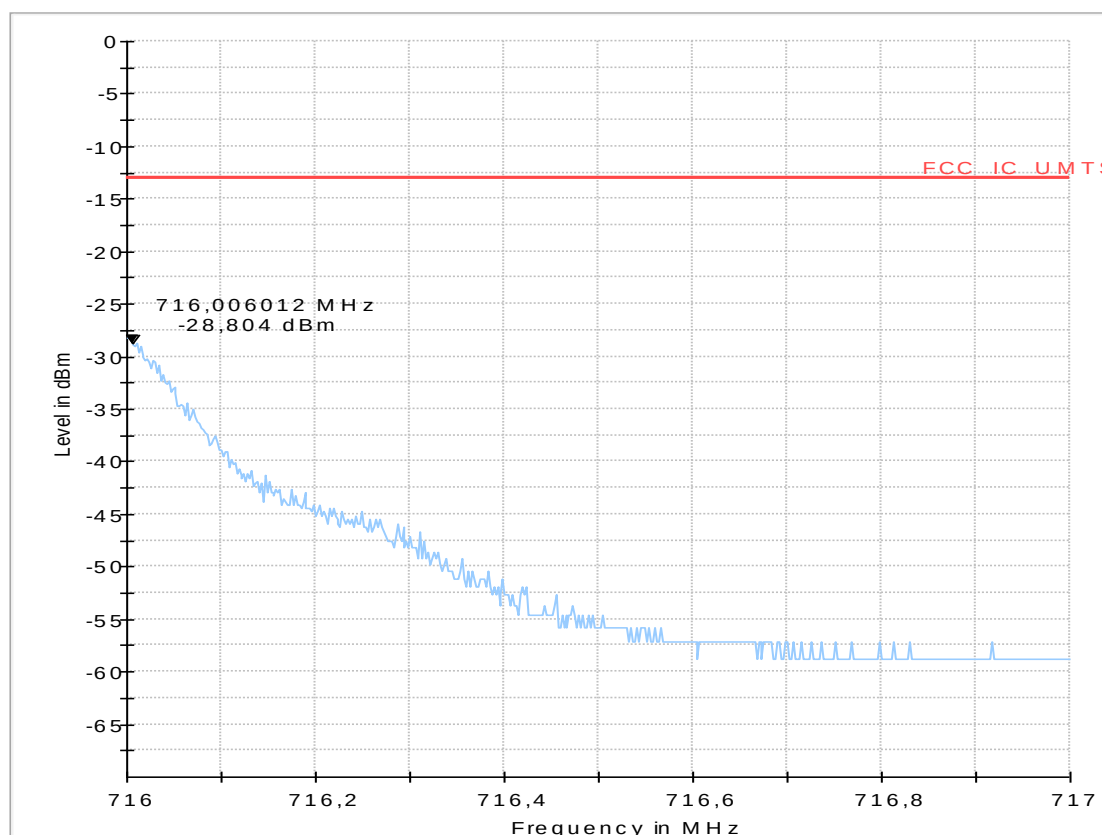
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 27.53 / RSS-139
Operating Mode:	UE allocated channel 23825($f_c = 713,5\text{MHz}$), BW=5,0 MHz, RB=1, high, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLA

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8.2.2. Channel 23825, 16-QAM, 1RBs

9.1704b_BE_R_Ch23825_1RB_high_BW5_QAM

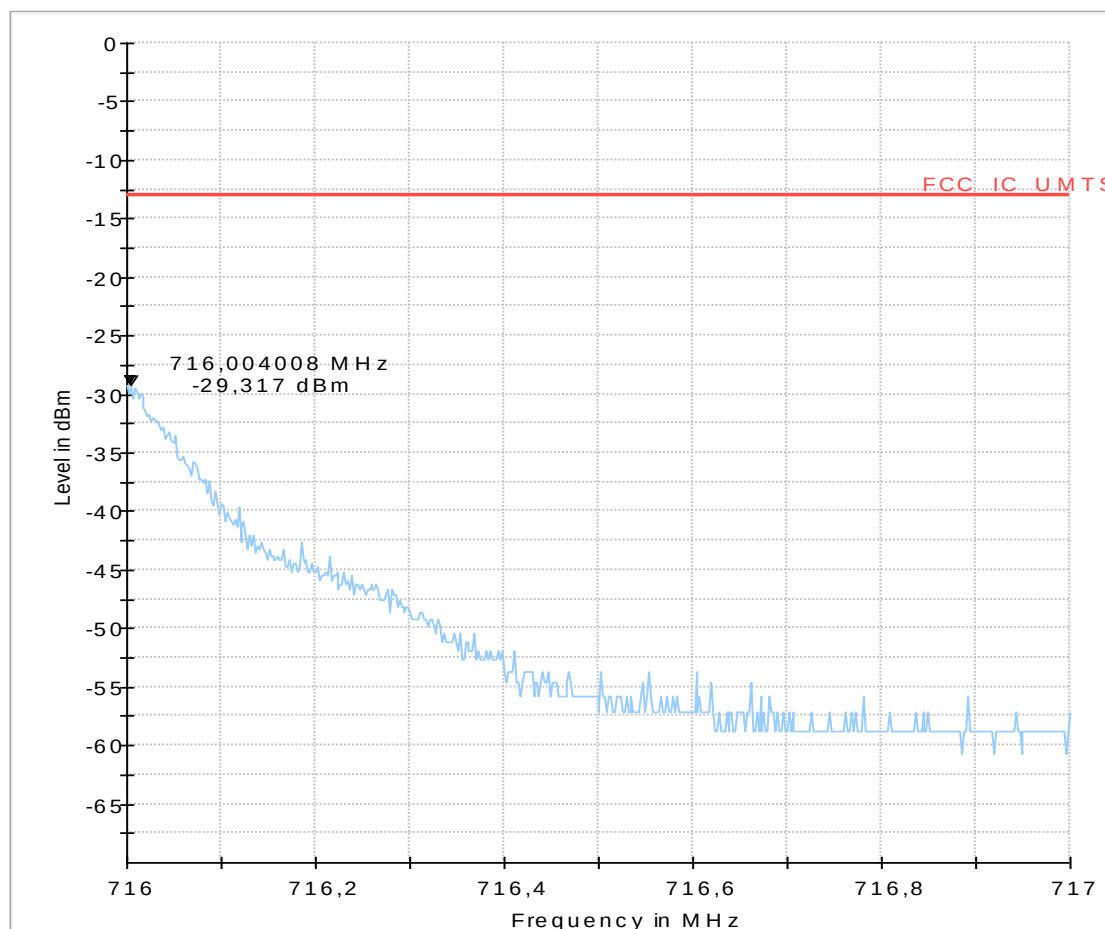
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 27.53 / RSS-139
Operating Mode:	UE allocated channel 23825(fc =713,5MHz), BW=5,0 MHz, RB=1, high, QAM
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLA

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8.2.3. Channel 23825, QPSK, 25RBs

9.1704a_BE_R_Ch23825_25RB_BW5_QPSK

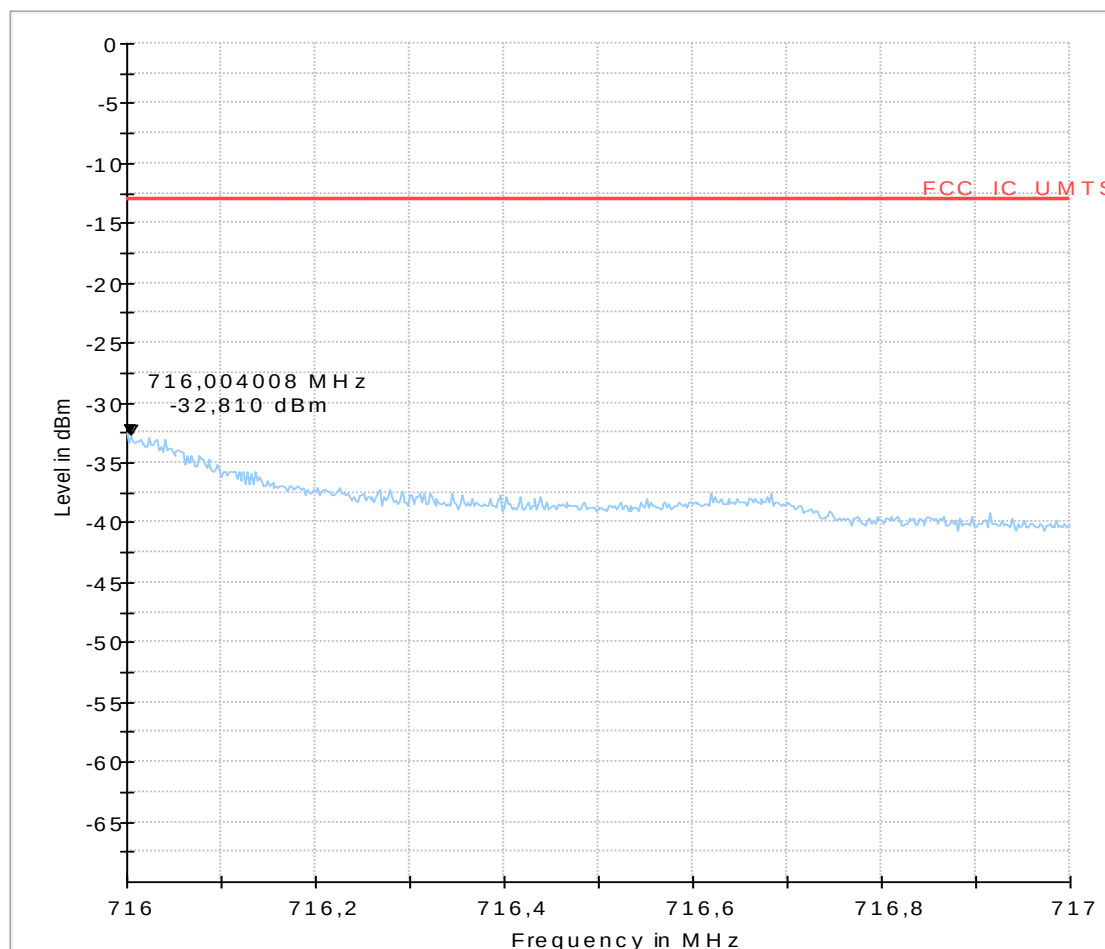
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 27.53 / RSS-139
Operating Mode:	UE allocated channel 23825($f_c = 713,5\text{MHz}$), BW=5,0 MHz, RB=25, QPSK
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLA

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum



3.8.2.4. Channel 23825, 16-QAM, 25RBs

9.1704b_BE_R_Ch23825_25RB_BW5_QAM

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR) - EMC32 V9.21.0
Test Standard:	FCC Part 27.53 / RSS-139
Operating Mode:	UE allocated channel 23825(fc =713,5MHz), BW=5,0 MHz, RB=25, QAM
Environmental Conditions:	Humidity: 40%rH; Temperature: 22°C
Operator:	HLA

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T2-US-4GW
HW Version:	213.002.002
SW Version:	001.024.047
Serial Number:	748740
IMEI:	353824070000894
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14.0 V DC
Comments:	

Full Spectrum

