

Annex 4: Measurement diagrams to
TEST REPORT
 No.: 6-0315-13-1-8b

According to:
FCC Regulations
 Part 22, Part 24

IC-Regulations
 RSS-132, RSS-133, RSS-Gen

for

Peiker Acoustic GmbH & Co. KG

GSM/GPRS/E-GPRS/W-CDMA Wireless Module V1140-103

FCC-ID: QWY-V1140-103
 IC: 6588A-V1140103







Laboratory Accreditation and Listings			
 DAkKS Deutsche Akkreditierungsstelle D-PL-12047-01-01	 FEDERAL COMMUNICATIONS COMMISSION USA Reg. No.: 736496 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 Test Lab LAB CODE 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
<p align="center"> 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 </p>			

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1. Measurement diagrams

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

8.20_Ch9262_RMC

Common Information

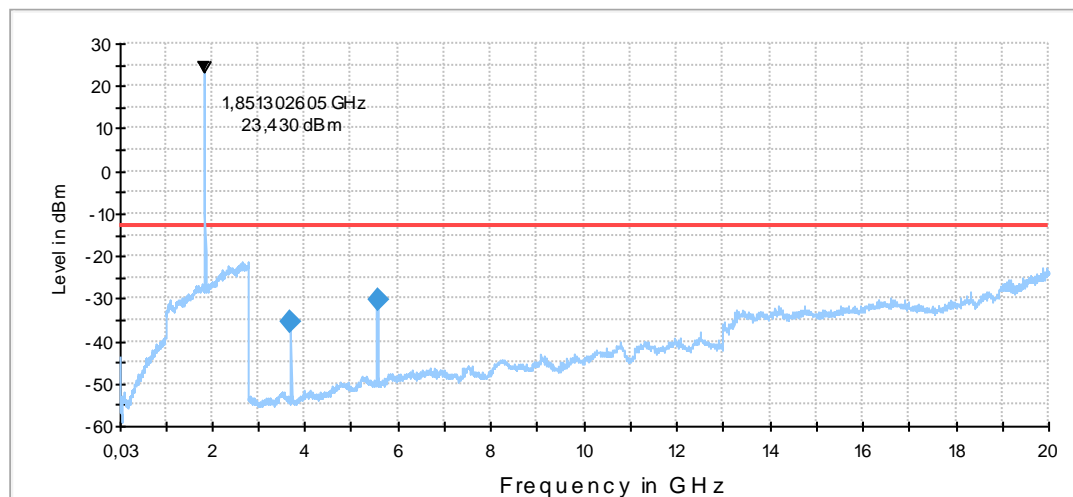
Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9262 (fc = 1880.0 MHz)
Environmental Conditions:	Humidity: 52%rH; Temperature: 24.6°C
Operator:	Kre

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

030414_FCC_Part24_UMTS-FDDII_TX_all_channels_30M-25G



Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
3703.256513	-35.7	10000.0	1000.000	H	71.0	90.0	-94.9	22.7	-13.0
5560.671343	-30.5	10000.0	1000.000	H	46.0	90.0	-89.9	17.5	-13.0

8.21_Ch9400_RMC

Common Information

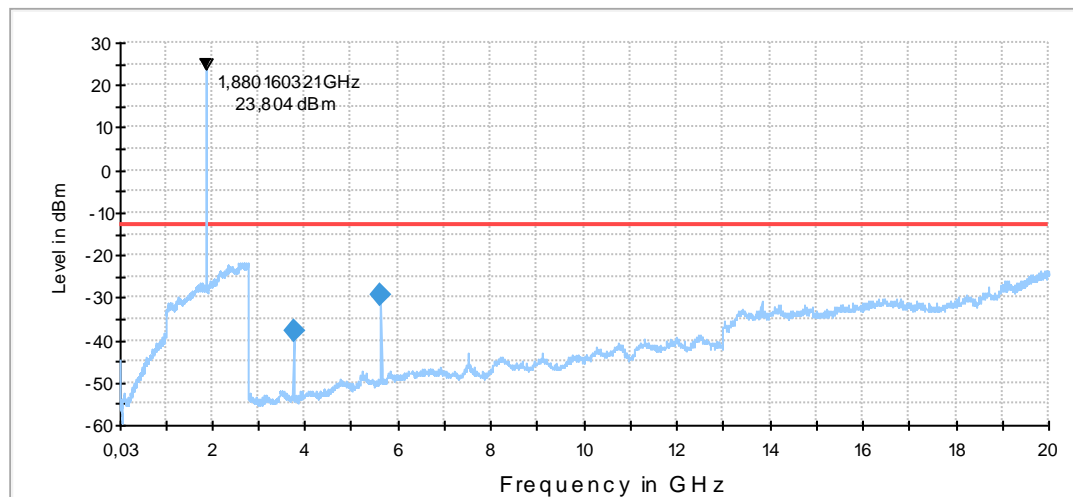
Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9400 (fc = 1880.0 MHz)
Environmental Conditions:	Humidity: 52%rH; Temperature: 24.6°C
Operator:	Kre

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

030414_FCC_Part24_UMTS-FDDII_TX_all_channels_30M-25G



Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
3757.464930	-37.7	10000.0	1000.000	H	48.0	90.0	-95.1	24.7	-13.0
5643.517035	-29.2	10000.0	1000.000	H	315.0	90.0	-89.7	16.2	-13.0

8.22_Ch9538_RMC

Common Information

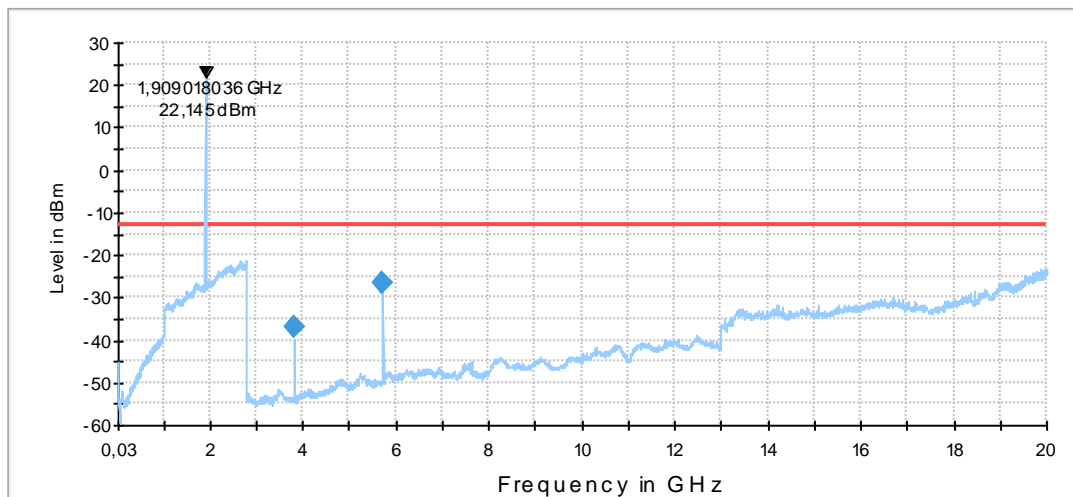
Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9538 (fc = 1907.6 MHz)
Environmental Conditions:	Humidity: 52%rH; Temperature: 24.6°C
Operator:	Lor

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

030414_FCC_Part24_UMTS-FDDII_TX_all_channels_30M-25G



Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
3817.565131	-37.1	10000.0	1000.000	H	64.0	90.0	-95.1	24.1	-13.0
5719.909820	-26.7	10000.0	1000.000	H	41.0	90.0	-89.5	13.7	-13.0

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

Diagram 8.50_Ch4132_RMC

Common Information

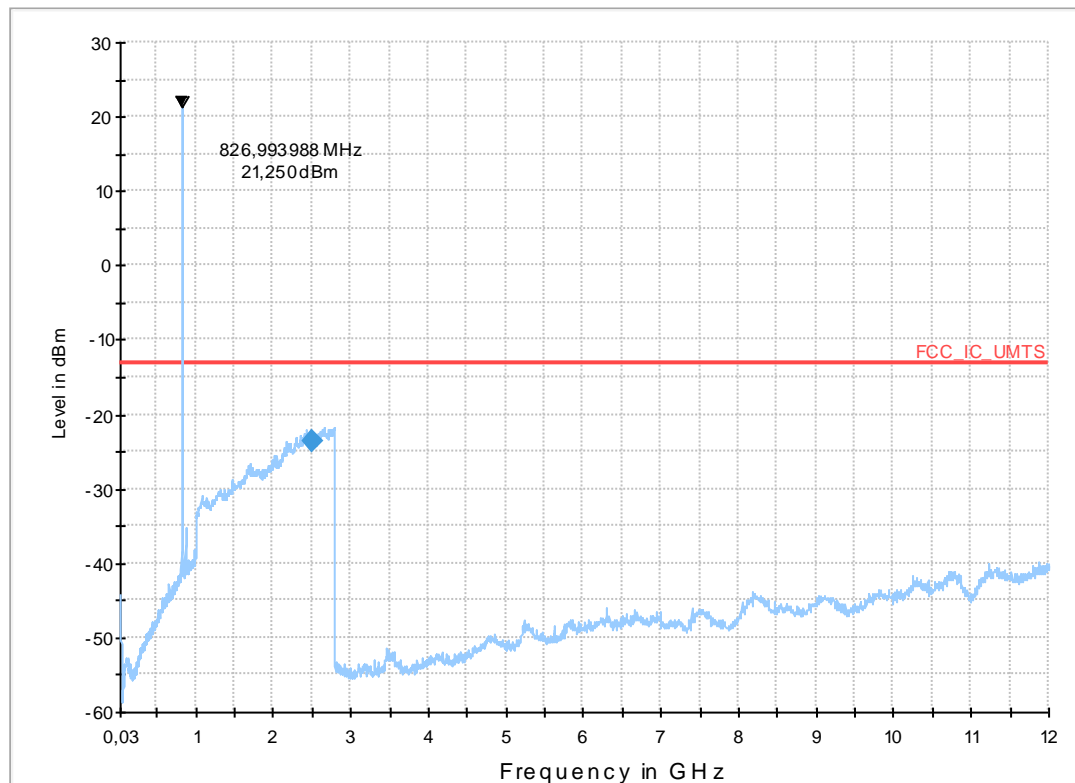
Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4132 (fc = 826.6 MHz)
Environmental Conditions:	Humidity: 52%RH; Temperature: 24.6°C
Operator:	Kre

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

030411_FCC_Part22_UMTS-FDDV_TX_all_channels_30M-12G



Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2515.581163	-23.7	10000.0	1000.000	V	103.0	0.0	-59.6	10.7	-13.0

Diagram 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 Mode, max Power
Environmental Conditions:	Humidity: 63%rH; Temperature: 21°C
Operator:	dpa

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

030411_FCC_Part22_UMTS-FDDV_TX_all_channels_30M-12G

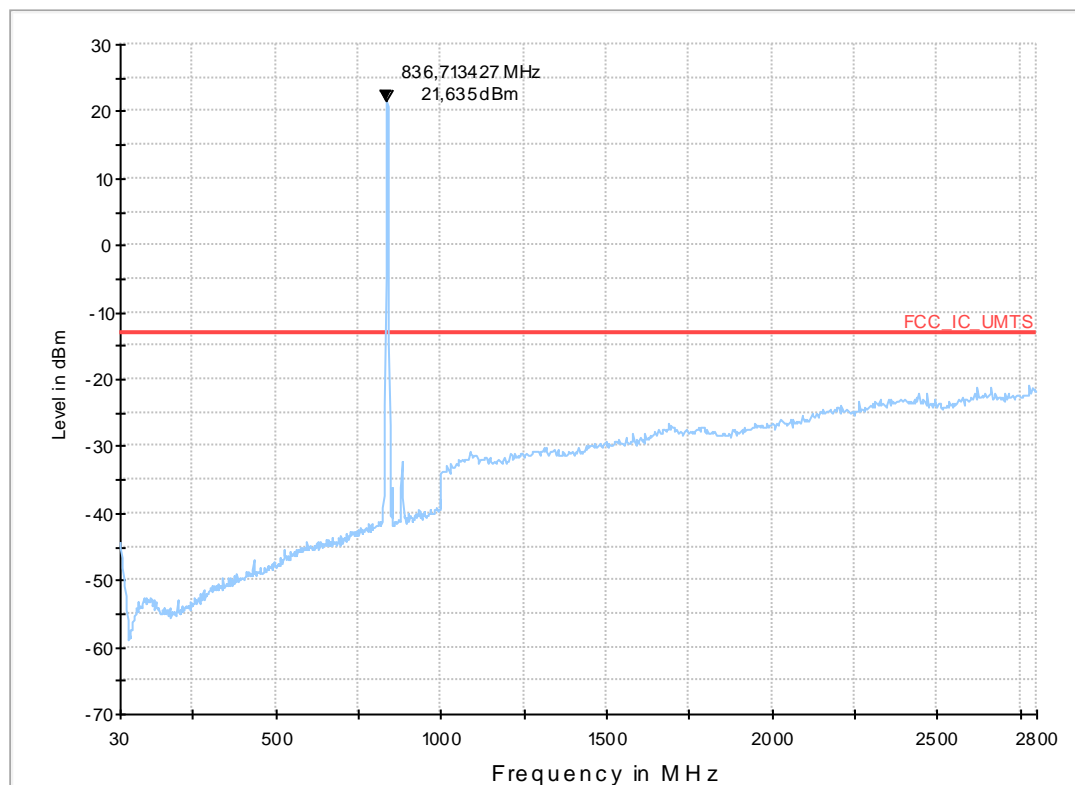


Diagram 8.51b_RSE_R_Ch4183_RMC

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 = 836.6MHz), RMC Mode, max Power
Environmental Conditions:	Humidity: 63%rH; Temperature: 21°C
Operator:	dpa

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

030411_FCC_Part22_UMTS-FDDV_TX_all_channels_30M-12G

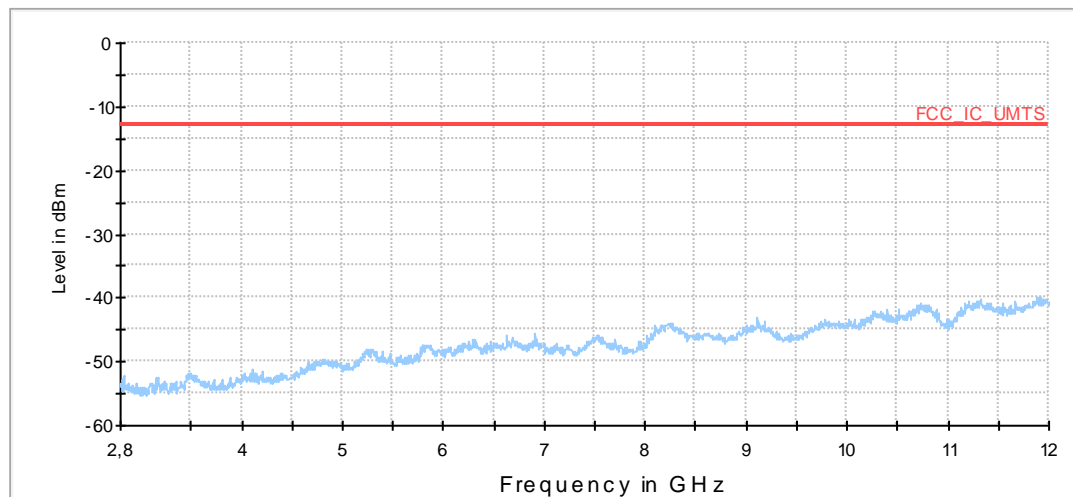


Diagram 8.52a_Ch4233_RMC

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: 52%rH; Temperature: 24.6°C
Operator:	

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

030411_FCC_Part22_UMTS-FDDV_TX_all_channels_30M-12G

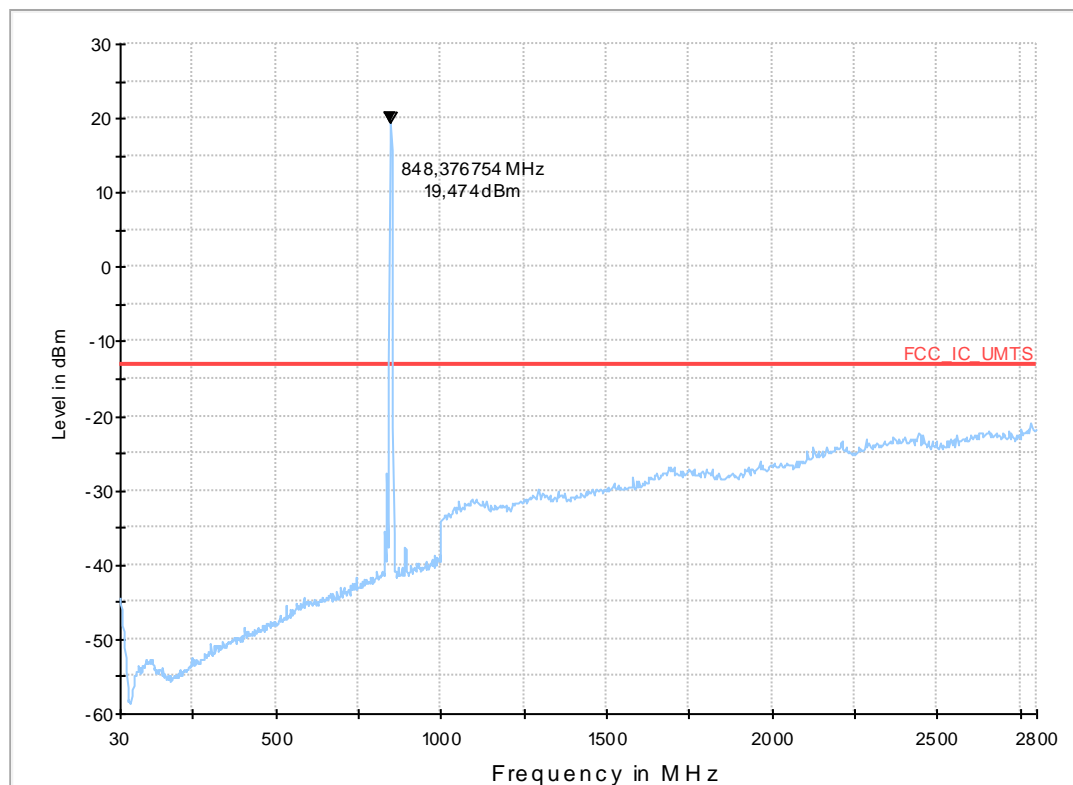


Diagram 8.52b_Ch4233_RMC

Common Information

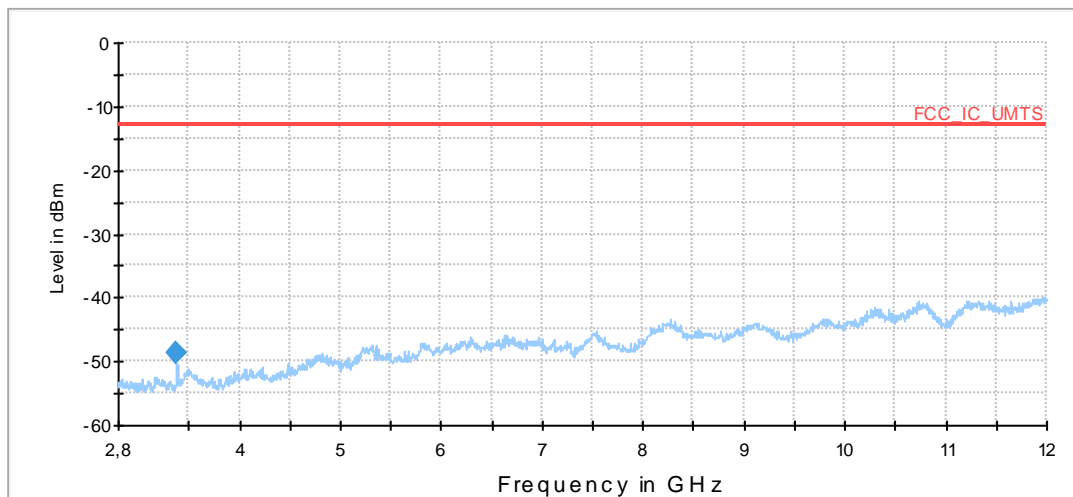
Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4233 (fc = 846.6 MHz), RMC Mode, max Power
Environmental Conditions:	Humidity: 63%rH; Temperature: 21°C
Operator:	dpa

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

030411_FCC_Part22_UMTS-FDDV_TX_all_channels_30M-12G



Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
3382.555110	-48.8	10000.0	1000.000	H	135.0	90.0	-95.5	35.8	-13.0

1.3. Band-Edge radiated emissions (FDD Band II)

9.20_BE_R_Ch9262_RMC99

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 24.238
Operating Mode:	UE allocated channel 9262 (fc = 1852.4 MHz)
Environmental Conditions:	Humidity: 52%rH; Temperature: 24.6°C
Operator:	Kre

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

030415_FCC_Part24_UMTS-FDDII_TX_low_channel_band_edge

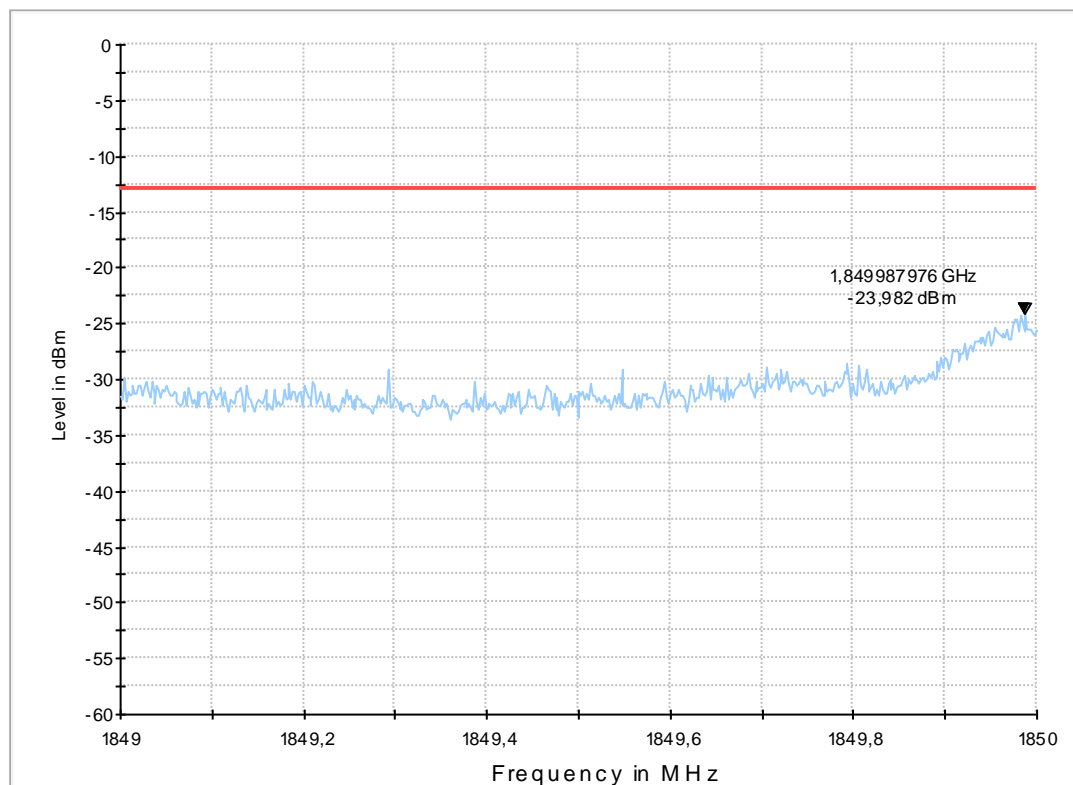


Diagram No.: 9.21_BE_R_Ch9538_RMC99

Common Information

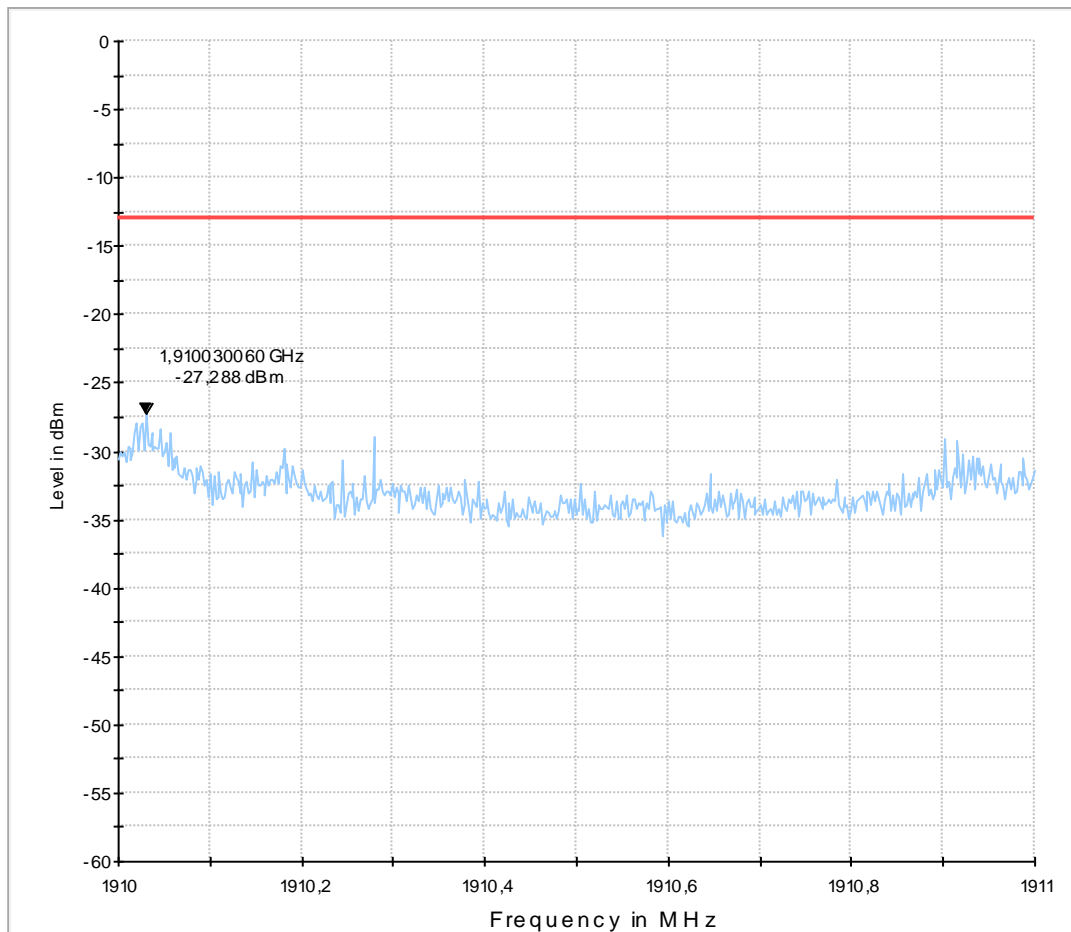
Test Description:	Radiated emission related to 1m
Test Site:	FAR
Test Standard:	FCC FCC Part 24.238 Broadband PCS
Antenna polarisation:	vertical / horizontal
Operation mode:	TX, FDD Band II Channel 9538
Operator Name:	Dpa
Comment:	--

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

030416_FCC_Part24_UMTS-FDDII_TX_high_channel_band_edge



EMI Auto Test Template: 030416_FCC_Part24_UMTS-FDDII_TX_high_channel_band_edge

1.4. Band-Edge radiated emissions (FDD Band V)

9.50_BE_R_Ch4132_RMC99

Common Information

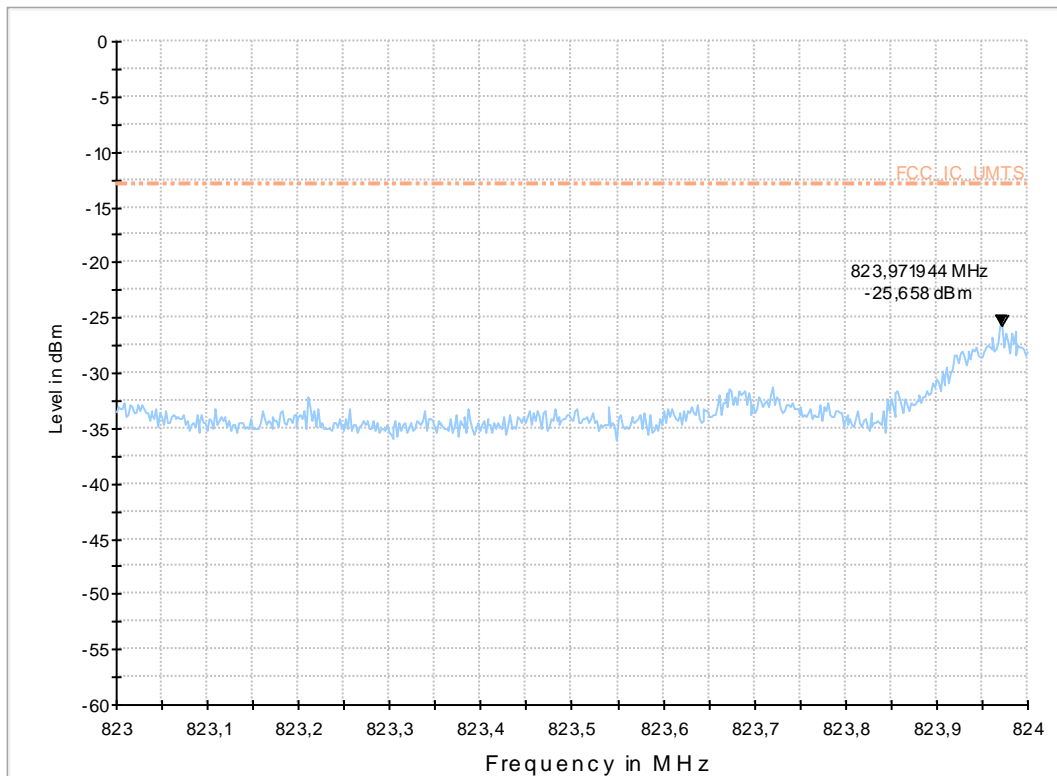
Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4132 (fc = 826.6 MHz)
Environmental Conditions:	Humidity: 52%rH; Temperature: 24.6°C
Operator:	Kre

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

030412_FCC_Part22_UMTS-FDDV_TX_low_channel_band_edge



9.51_BE_R_Ch4233_RMC99

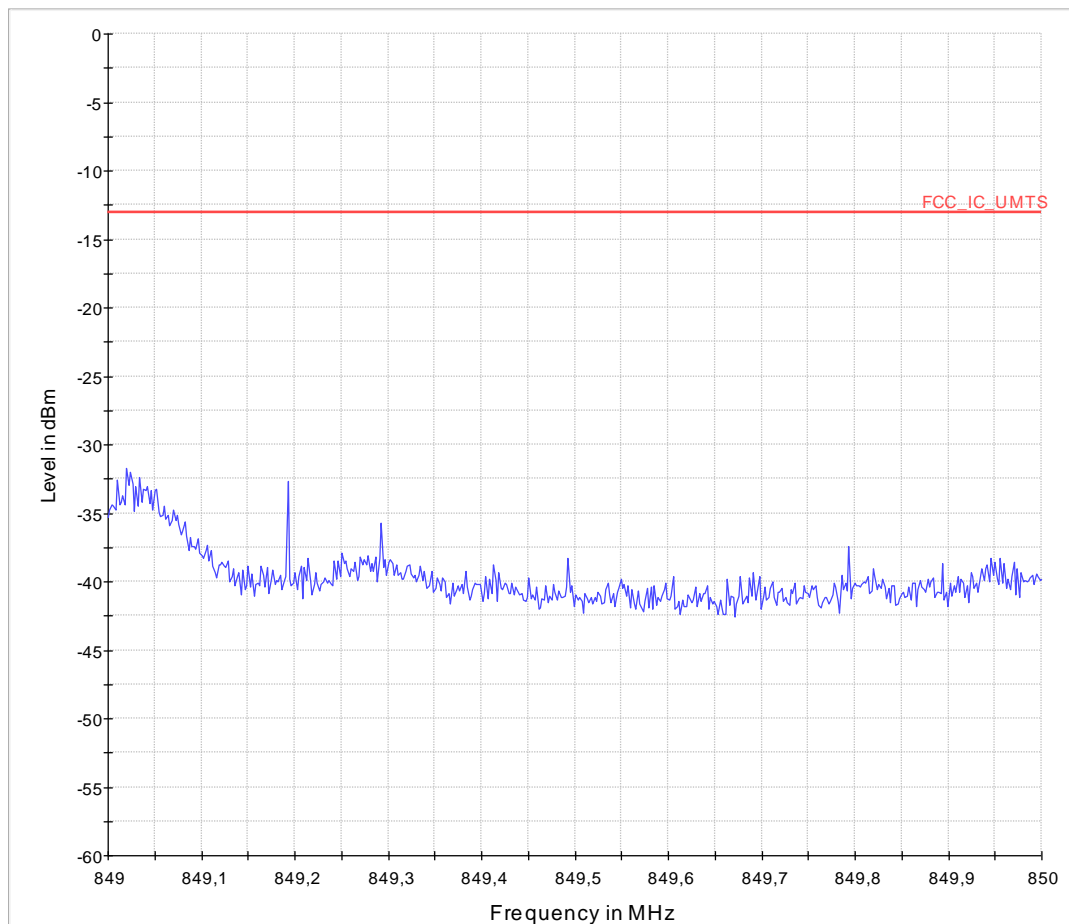
Common Information

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: 52%rH; Temperature: 24.6°C
Operator:	Kre
Remarks:	EUT - laying/standing position

EUT Information

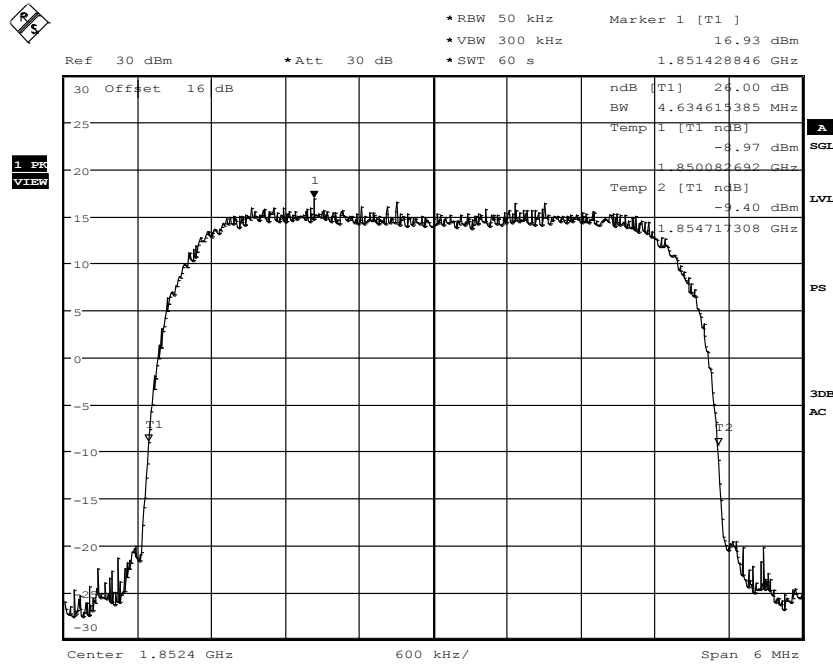
Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-



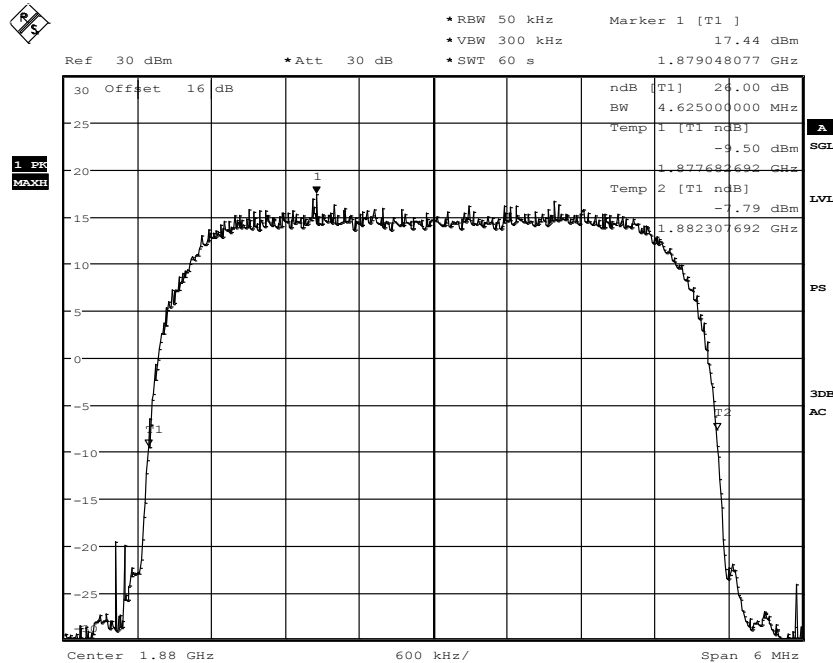
1.5. 26dBc Emission bandwidth

1.5.1. FDD II TX Mode



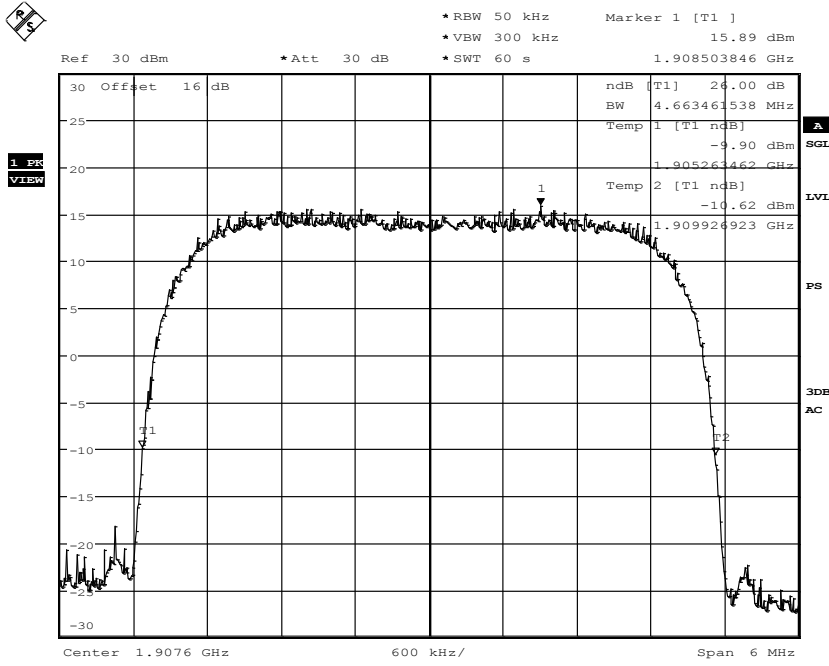
Date: 24.OCT.2013 15:14:43

Channel 9262



Date: 24.OCT.2013 15:20:51

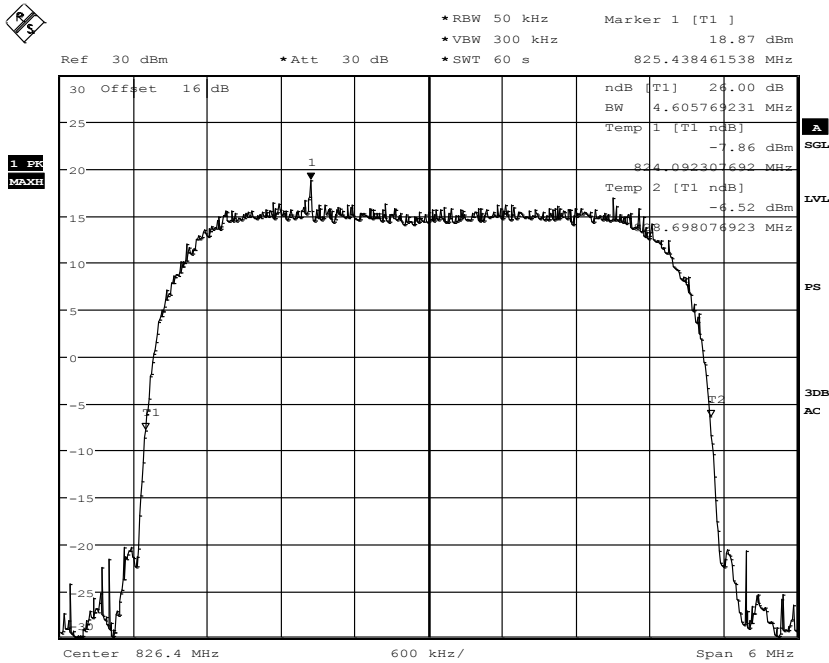
Channel 9400



Date: 24.OCT.2013 15:23:05

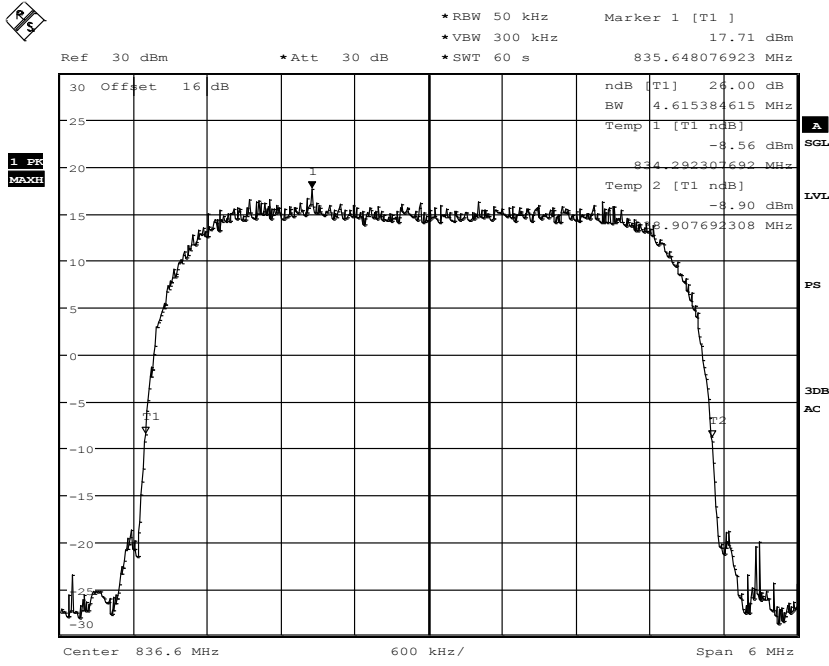
Channel 9538

1.5.2. FDD V TX Mode



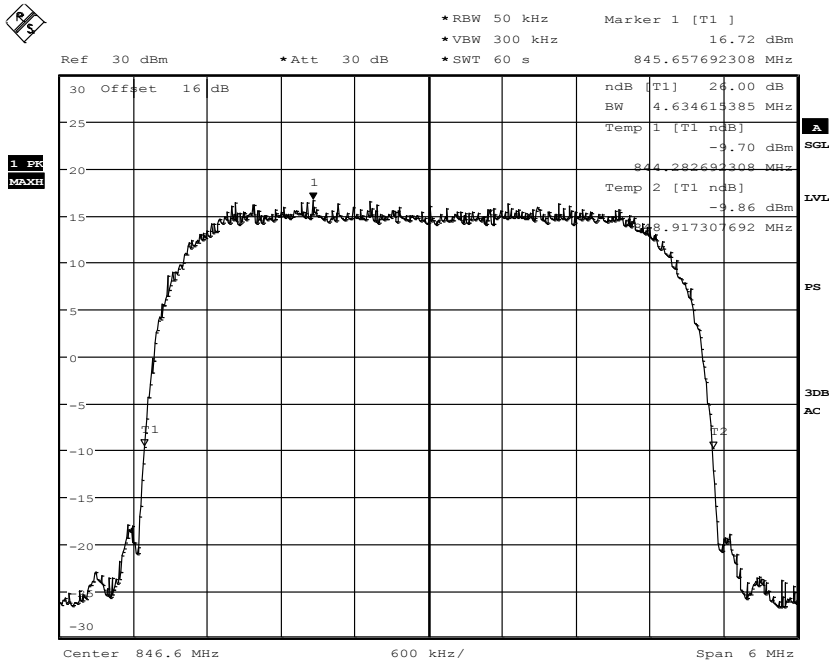
Date: 24.OCT.2013 13:55:38

Channel 4132



Date: 24.OCT.2013 13:51:37

Channel 4183

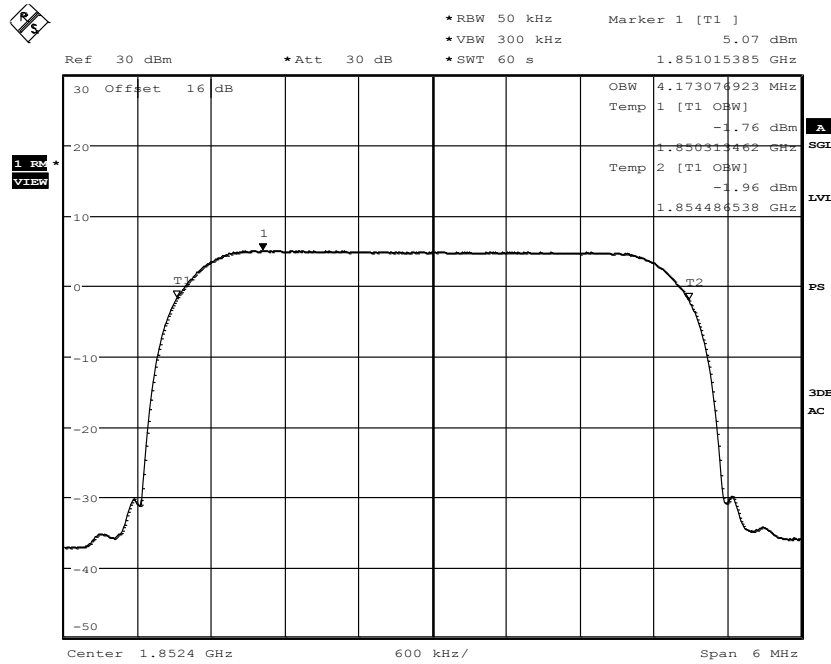


Date: 24.OCT.2013 13:48:46

Channel 4233

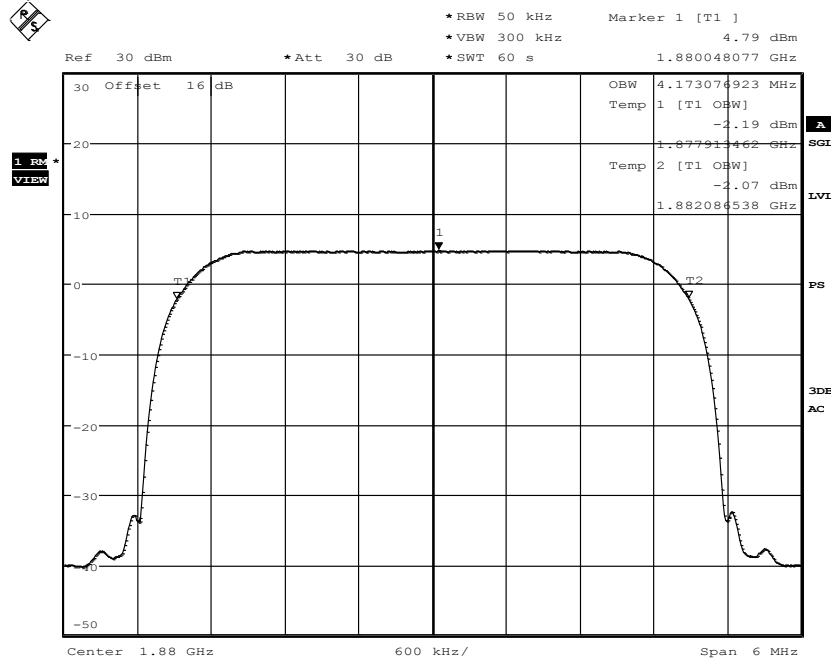
1.6. 99% Occupied bandwidth

1.6.1. FDD II TX Mode



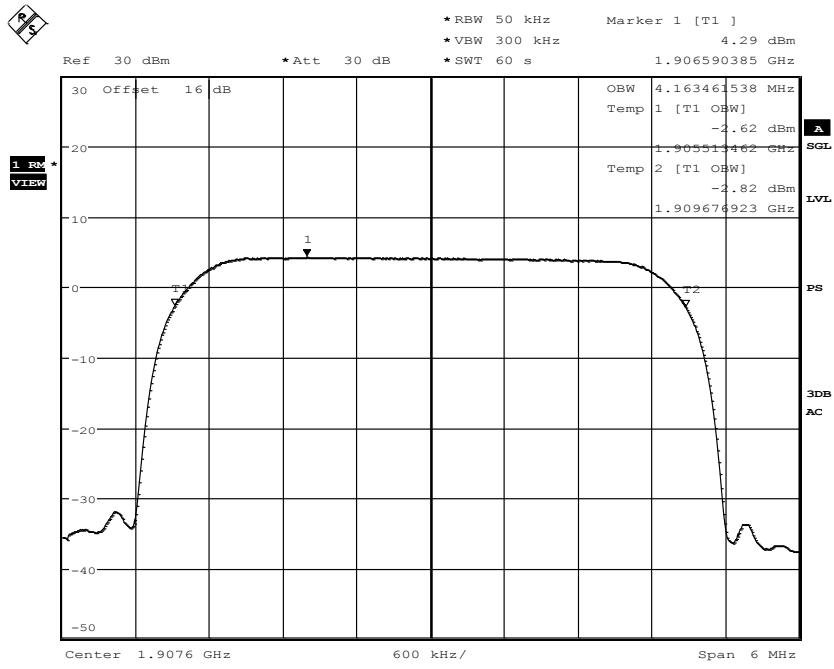
Date: 24.OCT.2013 15:34:41

Channel 9262



Date: 24.OCT.2013 15:32:14

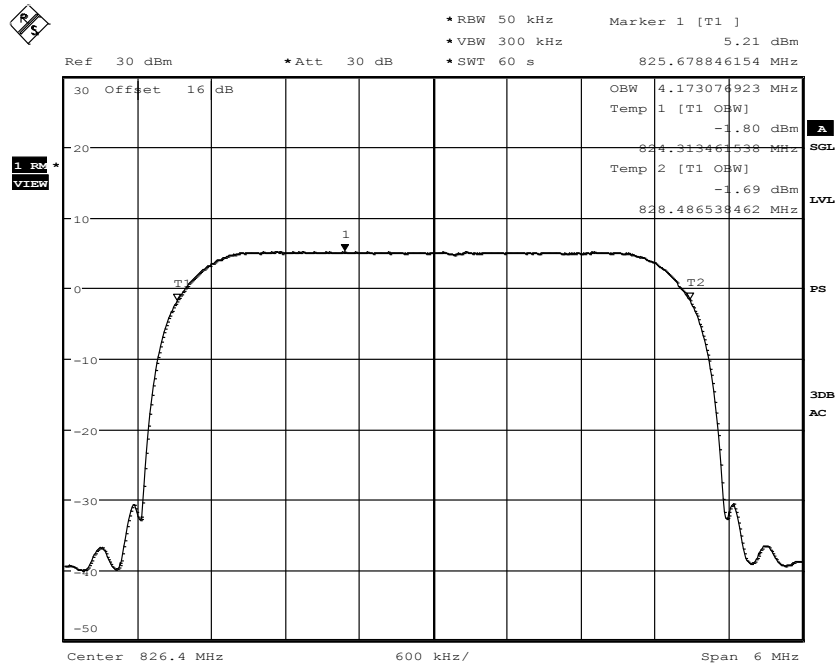
Channel 9400



Date: 24.OCT.2013 15:27:27

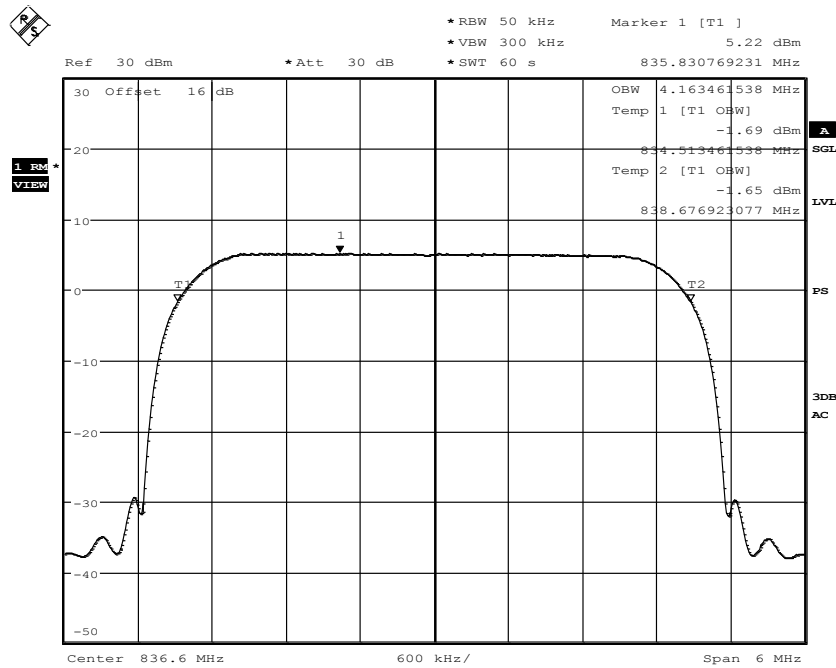
Channel 9538

1.6.2. FDD V TX Mode



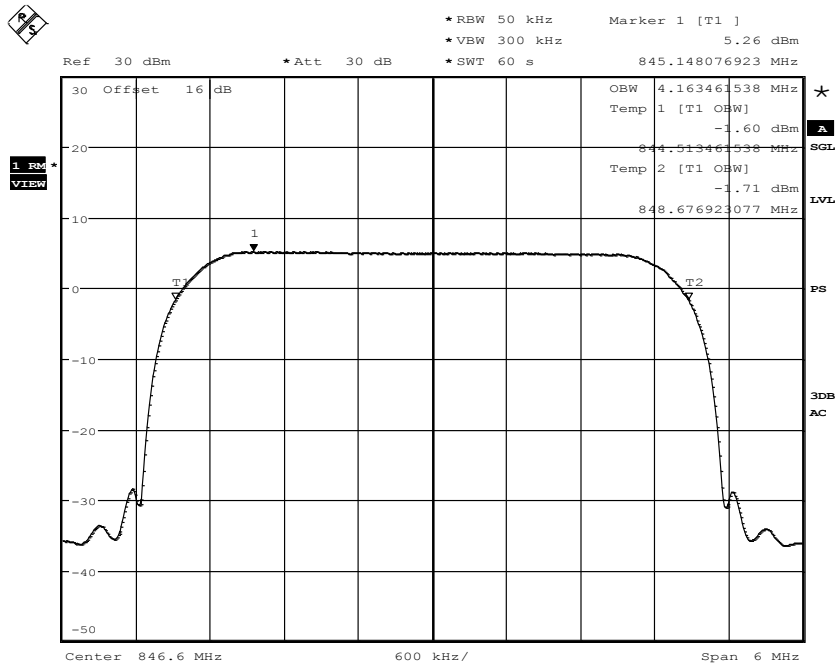
Date: 24.OCT.2013 13:36:45

Channel 4132



Date: 24.OCT.2013 13:40:02

Channel 4183



Date: 24.OCT.2013 13:45:02

Channel 4233

1.7. Spurious emissions conducted on FDD Band II

Diagram No.:

36.60_RSE_Ch9262_RMC_Sweep1

Common Information

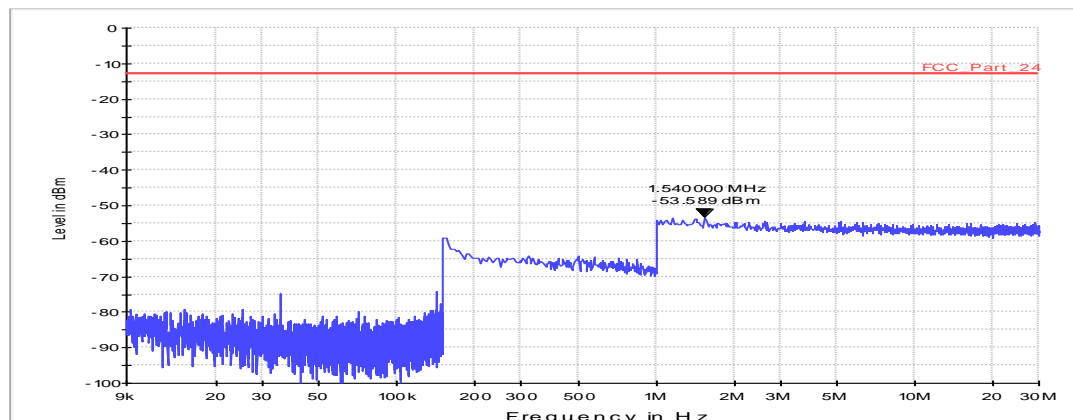
Test Description: TX Spurious Emission Conducted §2.1051
 Test Site: Radio laboratory 2
 Test Standard: FCC Part 24, RSS-133
 Environment conditions: Normal conditions (Vnominal, Tnominal)
 Operator name: Lor
 Operating mode: TX - Channel 9262

EUT Information

Manufacturer: Peiker
 Model: V1140-103
 Type: GSM/WCDMA Module

EUT: PKD0054AB0h
 HW version: HW0913
 SW version: M9615A-CETWTAZM-50110010
 SVN: -
 Config: C25
 Serial number: WC#418 V1140-103 HW0913
 Connected Interfaces: microphone + loudspeaker + USB cable + antenna EU 64159
 Power Supply: 3.8VDC via external DC Power supply inside chamber
 Comments: -

Fula2_FCC_24_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_24_Scan1_9kHz_30MHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
 Receiver: [ESU 26]
 Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	40 Hz	PK+	100 Hz	0.01 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.01 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.:

36.61_RSE_Ch9262_RMC_Sweep2

Common Information

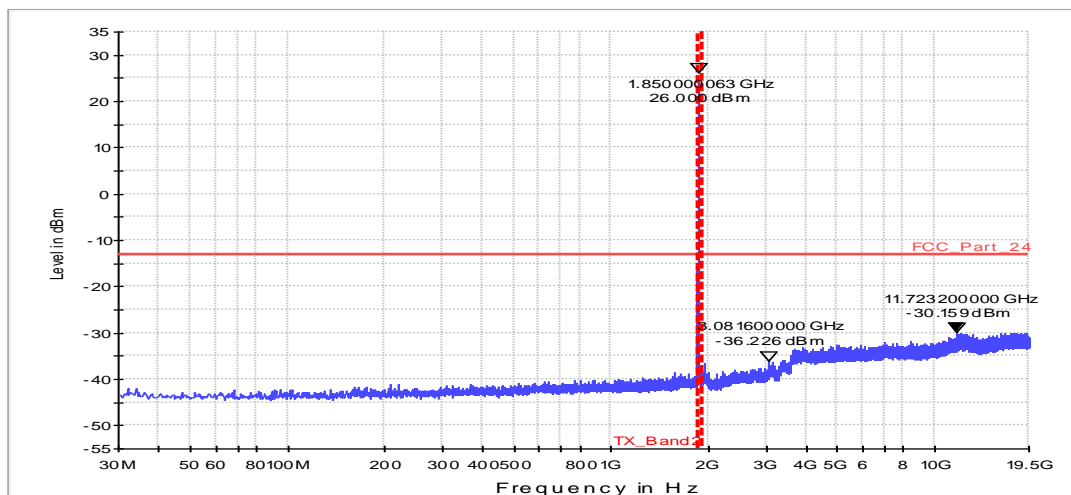
Test Description: TX Spurious Emission Conducted §2.1051
 Test Site: Radio laboratory 2
 Test Standard: FCC Part 24, RSS-133
 Environment conditions: Normal conditions (Vnominal, Tnominal)
 Operator name: Dpa
 Operating mode: TX - Channel 9262

EUT Information

Manufacturer: Peiker
 Model: V1140-103
 Type: GSM/WCDMA Module

EUT: PKD0054AB0h
 HW version: HW0913
 SW version: M9615A-CETWTAZM-50110010
 SVN: -
 Config: C25
 Serial number: WC#418 V1140-103 HW0913
 Connected Interfaces: microphone + loudspeaker + USB cable + antenna EU 64159
 Power Supply: 3.8VDC via external DC Power supply inside chamber
 Comments: -

Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz



Scan Setup: Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
 Receiver: [ESU 26]
 Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 19.5 GHz	400 kHz	PK+	1 MHz	0.015 s	0 dB

Diagram No.:

36.62_RSE_Ch9400_RMC_Sweep1

Common Information

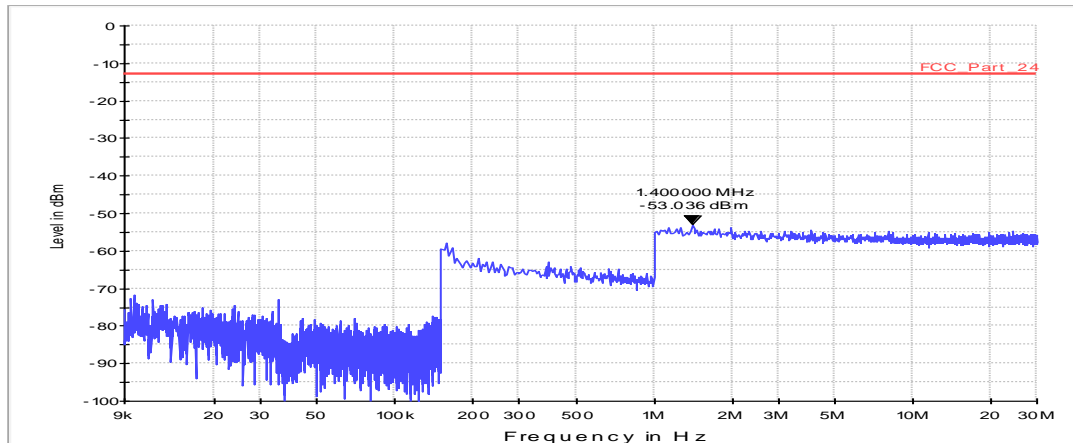
Test Description: TX Spurious Emission Conducted §2.1051
 Test Site: Radio laboratory 2
 Test Standard: FCC Part 24, RSS-133
 Environment conditions: Normal conditions (Vnominal, Tnominal)
 Operator name: Lor
 Operating mode: TX - Channel 9400

EUT Information

Manufacturer: Peiker
 Model: V1140-103
 Type: GSM/WCDMA Module

EUT: PKD0054AB0h
 HW version: HW0913
 SW version: M9615A-CETWTAZM-50110010
 SVN: -
 Config: C25
 Serial number: WC#418 V1140-103 HW0913
 Connected Interfaces: microphone + loudspeaker + USB cable + antenna EU 64159
 Power Supply: 3.8VDC via external DC Power supply inside chamber
 Comments: -

Fula2_FCC_24_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_24_Scan1_9kHz_30MHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
 Receiver: [ESU 26]
 Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	40 Hz	PK+	100 Hz	0.01 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.01 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.:

36.63_RSE_Ch9400_RMC_Sweep2

Common Information

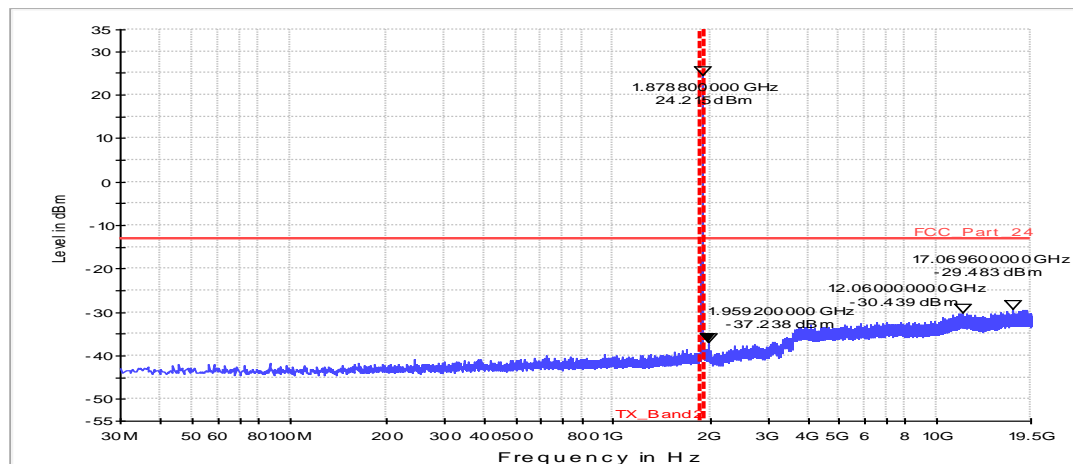
Test Description: TX Spurious Emission Conducted §2.1051
 Test Site: Radio laboratory 2
 Test Standard: FCC Part 24, RSS-133
 Environment conditions: Normal conditions (Vnominal, Tnominal)
 Operator name: Dpa
 Operating mode: TX - Channel 9400

EUT Information

Manufacturer: Peiker
 Model: V1140-103
 Type: GSM/WCDMA Module

EUT: PKD0054AB0h
 HW version: HW0913
 SW version: M9615A-CETWTAZM-50110010
 SVN: -
 Config: C25
 Serial number: WC#418 V1140-103 HW0913
 Connected Interfaces: microphone + loudspeaker + USB cable + antenna EU 64159
 Power Supply: 3.8VDC via external DC Power supply inside chamber
 Comments: -

Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz



Scan Setup: Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
 Receiver: [ESU 26]
 Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 19.5 GHz	400 kHz	PK+	1 MHz	0.015 s	0 dB

Diagram No.:

36.64_RSE_Ch9538_RMC_Sweep1

Common Information

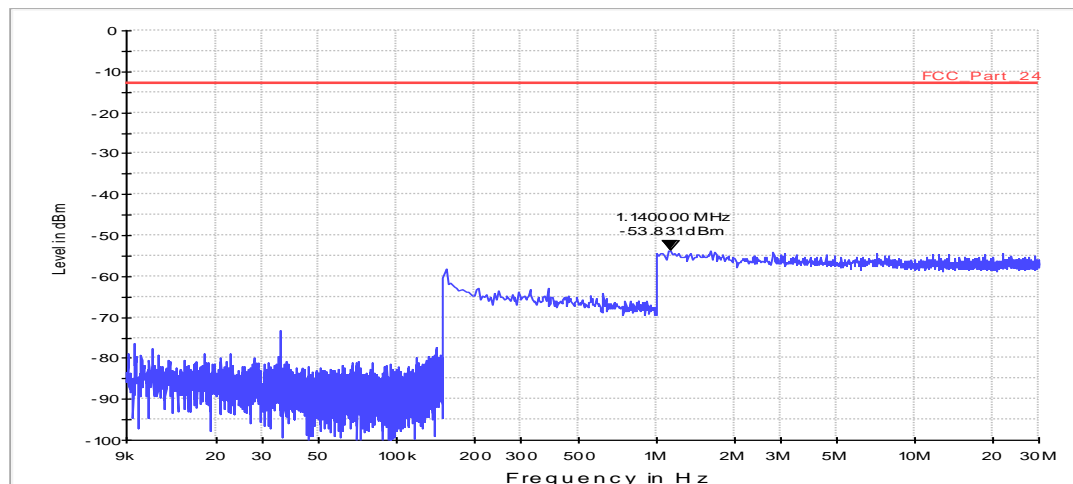
Test Description: TX Spurious Emission Conducted §2.1051
 Test Site: Radio laboratory 2
 Test Standard: FCC Part 24, RSS-133
 Environment conditions: Normal conditions (Vnominal, Tnominal)
 Operator name:
 Operating mode: TX - Channel 9538

EUT Information

Manufacturer: Peiker
 Model: V1140-103
 Type: GSM/WCDMA Module

EUT: PKD0054AB0h
 HW version: HW0913
 SW version: M9615A-CETWTAZM-50110010
 SVN: -
 Config: C25
 Serial number: WC#418 V1140-103 HW0913
 Connected Interfaces: microphone + loudspeaker + USB cable + antenna EU 64159
 Power Supply: 3.8VDC via external DC Power supply inside chamber
 Comments: -

Fula2_FCC_24_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_24_Scan1_9kHz_30MHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
 Receiver: [ESU 26]
 Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	40 Hz	PK+	100 Hz	0.01 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.01 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.:

36.65_RSE_Ch9538_RMC_Sweep2

Common Information

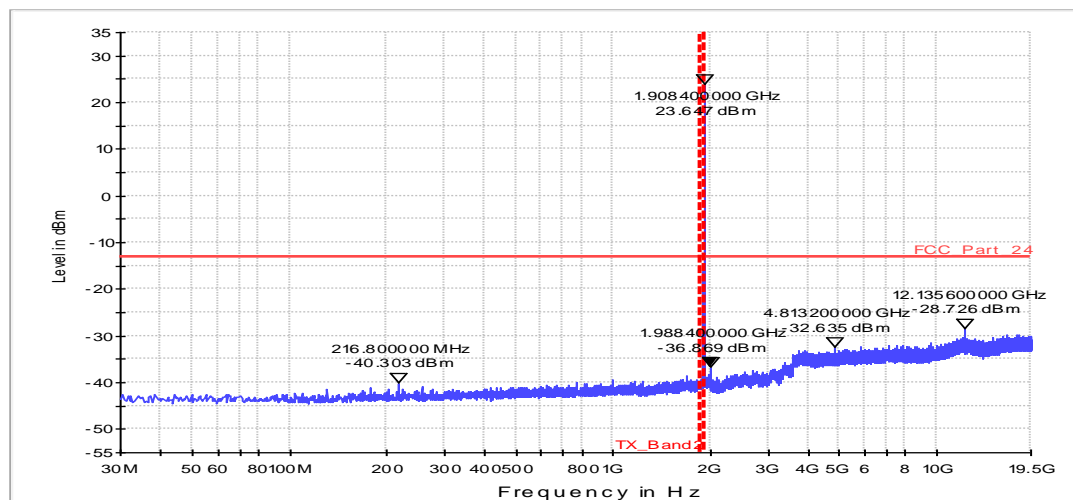
Test Description: TX Spurious Emission Conducted §2.1051
 Test Site: Radio laboratory 2
 Test Standard: FCC Part 24, RSS-133
 Environment conditions: Normal conditions (Vnominal, Tnominal)
 Operator name: Dpa
 Operating mode: TX - Channel 9538

EUT Information

Manufacturer: Peiker
 Model: V1140-103
 Type: GSM/WCDMA Module

EUT: PKD0054AB0h
 HW version: HW0913
 SW version: M9615A-CETWTAZM-50110010
 SVN: -
 Config: C25
 Serial number: WC#418 V1140-103 HW0913
 Connected Interfaces: microphone + loudspeaker + USB cable + antenna EU 64159
 Power Supply: 3.8VDC via external DC Power supply inside chamber
 Comments: -

Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz



Scan Setup: Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
 Receiver: [ESU 26]
 Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 19.5 GHz	400 kHz	PK+	1 MHz	0.015 s	0 dB

1.8. Spurious emissions conducted on FDD Band V

Diagram No.: 36.40_RSE_Ch4132_RMC_Sweep1

Common Information

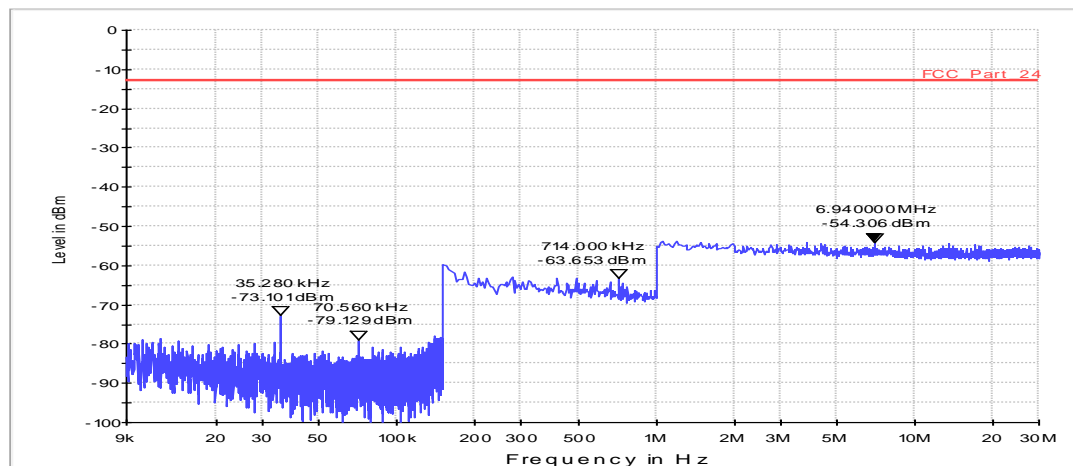
Test Description: TX Spurious Emission Conducted §2.1051
 Test Site: Radio laboratory 2
 Test Standard: FCC Part 22, RSS-132
 Environment conditions: Normal conditions (Vnominal, Tnominal)
 Operator name: Dpa
 Operating mode: TX - Channel 4132

EUT Information

Manufacturer: Peiker
 Model: V1140-103
 Type: GSM/WCDMA Module

EUT: PKD0054AB0h
 HW version: HW0913
 SW version: M9615A-CETWTAZM-50110010
 SVN: -
 Config: C25
 Serial number: WC#418 V1140-103 HW0913
 Connected Interfaces: microphone + loudspeaker + USB cable + antenna EU 64159
 Power Supply: 3.8VDC via external DC Power supply inside chamber
 Comments: -

Fula2_FCC_22_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_22_Scan1_9kHz_30MHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
 Receiver: [ESU 26]
 Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	40 Hz	PK+	100 Hz	0.01 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.01 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.:

36.41_RSE_Ch4132_RMC_Sweep2

Common Information

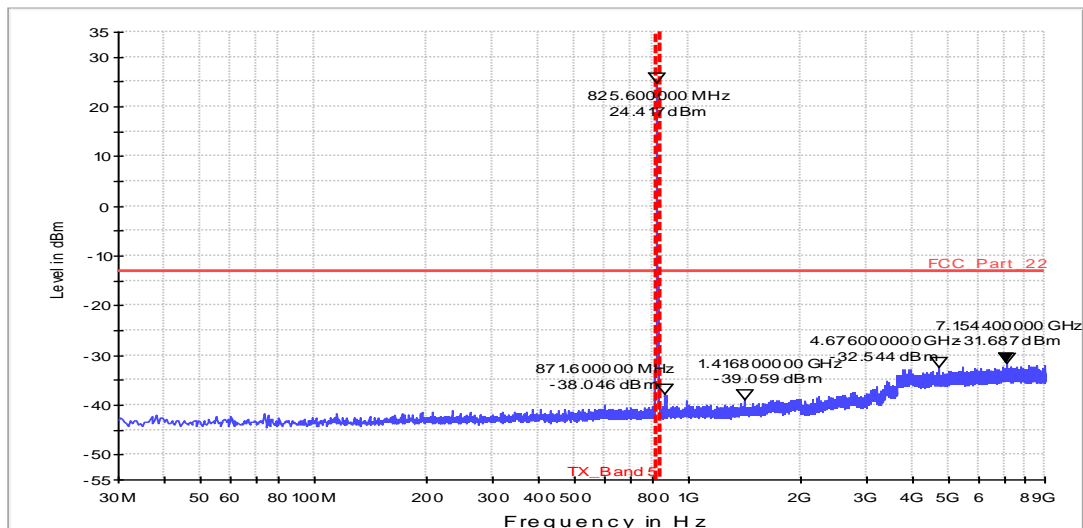
Test Description: TX Spurious Emission Conducted §2.1051
 Test Site: Radio laboratory 2
 Test Standard: FCC Part 22, RSS-132
 Environment conditions: Normal conditions (Vnominal, Tnominal)
 Operator name: Dpa
 Operating mode: TX - Channel 4132

EUT Information

Manufacturer: Peiker
 Model: V1140-103
 Type: GSM/WCDMA Module

EUT: PKD0054AB0h
 HW version: HW0913
 SW version: M9615A-CETWTAZM-50110010
 SVN: -
 Config: C25
 Serial number: WC#418 V1140-103 HW0913
 Connected Interfaces: microphone + loudspeaker + USB cable + antenna EU 64159
 Power Supply: 3.8VDC via external DC Power supply inside chamber
 Comments: -

Fula2_FCC_22_Scan2_30MHz_9GHz



Scan Setup: Fula2_FCC_22_Scan2_30MHz_9GHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
 Receiver: [ESU 26]
 Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 9 GHz	400 kHz	PK+	1 MHz	0.02 s	0 dB

Diagram No.:

36.42_RSE_Ch4183_RMC_Sweep1

Common Information

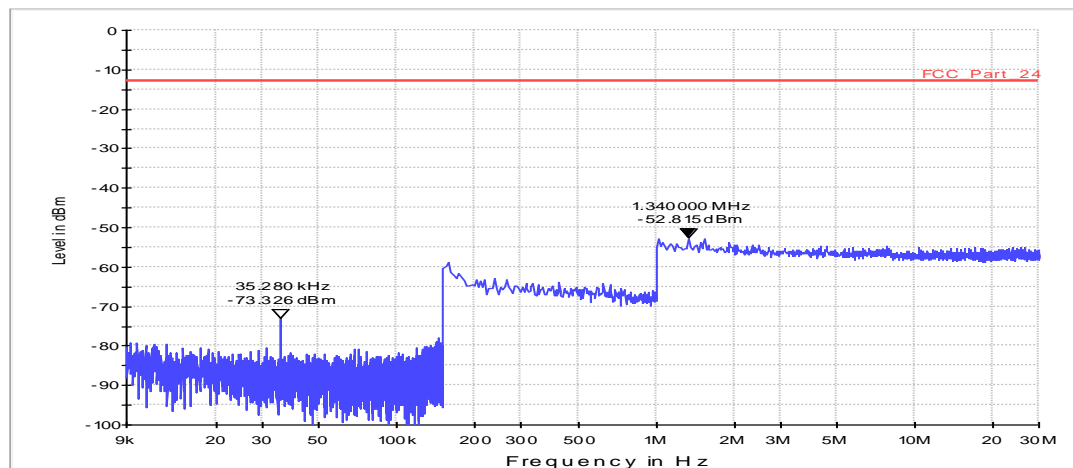
Test Description: TX Spurious Emission Conducted §2.1051
 Test Site: Radio laboratory 2
 Test Standard: FCC Part 22, RSS-132
 Environment conditions: Normal conditions (Vnominal, Tnominal)
 Operator name: Dpa
 Operating mode: TX - Channel 4183

EUT Information

Manufacturer: Peiker
 Model: V1140-103
 Type: GSM/WCDMA Module

EUT: PKD0054AB0h
 HW version: HW0913
 SW version: M9615A-CETWTAZM-50110010
 SVN: -
 Config: C25
 Serial number: WC#418 V1140-103 HW0913
 Connected Interfaces: microphone + loudspeaker + USB cable + antenna EU 64159
 Power Supply: 3.8VDC via external DC Power supply inside chamber
 Comments: -

Fula2_FCC_22_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_22_Scan1_9kHz_30MHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
 Receiver: [ESU 26]
 Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	40 Hz	PK+	100 Hz	0.01 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.01 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.:

36.43_RSE_Ch4183_RMC_Sweep2

Common Information

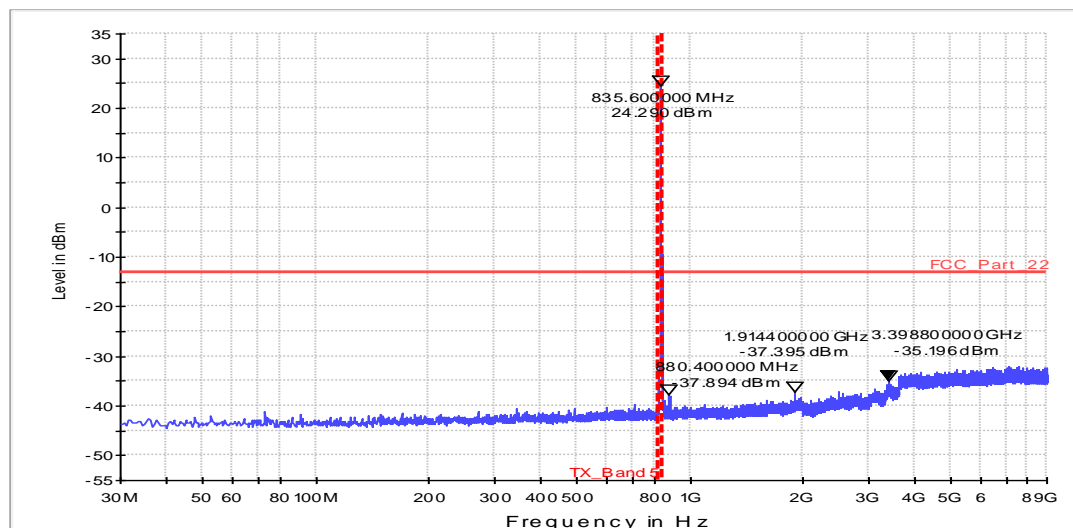
Test Description: TX Spurious Emission Conducted §2.1051
 Test Site: Radio laboratory 2
 Test Standard: FCC Part 22, RSS-132
 Environment conditions: Normal conditions (Vnominal, Tnominal)
 Operator name: Dpa
 Operating mode: TX - Channel 4183

EUT Information

Manufacturer: Peiker
 Model: V1140-103
 Type: GSM/WCDMA Module

EUT: PKD0054AB0h
 HW version: HW0913
 SW version: M9615A-CETWTAZM-50110010
 SVN: -
 Config: C25
 Serial number: WC#418 V1140-103 HW0913
 Connected Interfaces: microphone + loudspeaker + USB cable + antenna EU 64159
 Power Supply: 3.8VDC via external DC Power supply inside chamber
 Comments: -

Fula2_FCC_22_Scan2_30MHz_9GHz



Scan Setup: Fula2_FCC_22_Scan2_30MHz_9GHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
 Receiver: [ESU 26]
 Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 9 GHz	400 kHz	PK+	1 MHz	0.02 s	0 dB

Diagram No.:

36.44_RSE_Ch4233_RMC_Sweep1

Common Information

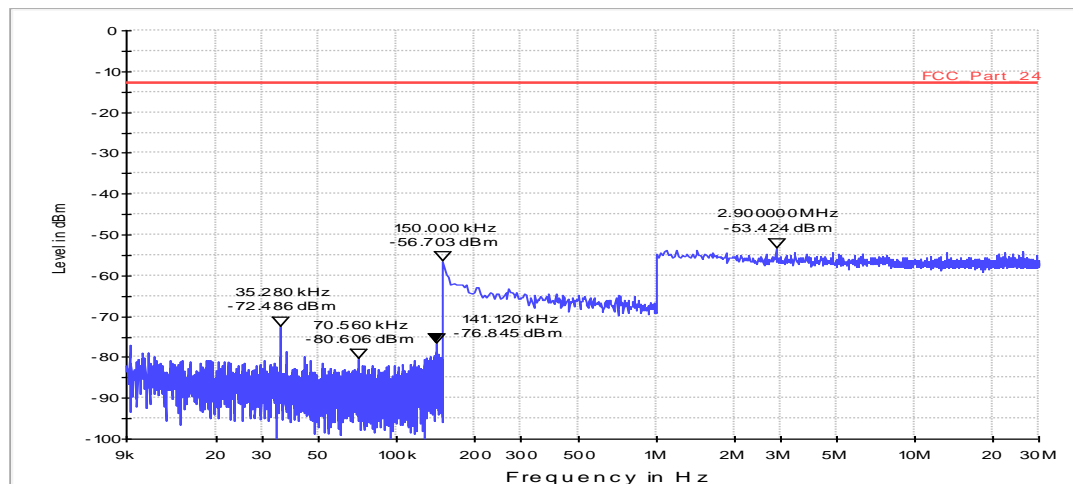
Test Description: TX Spurious Emission Conducted §2.1051
 Test Site: Radio laboratory 2
 Test Standard: FCC Part 22, RSS-132
 Environment conditions: Normal conditions (Vnominal, Tnominal)
 Operator name: Dpa
 Operating mode: TX - Channel 4233

EUT Information

Manufacturer: Peiker
 Model: V1140-103
 Type: GSM/WCDMA Module

EUT: PKD0054AB0h
 HW version: HW0913
 SW version: M9615A-CETWTAZM-50110010
 SVN: -
 Config: C25
 Serial number: WC#418 V1140-103 HW0913
 Connected Interfaces: microphone + loudspeaker + USB cable + antenna EU 64159
 Power Supply: 3.8VDC via external DC Power supply inside chamber
 Comments: -

Fula2_FCC_22_Scan1_9kHz_30MHz



Scan Setup: Fula2_FCC_22_Scan1_9kHz_30MHz [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
 Receiver: [ESU 26]
 Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	40 Hz	PK+	100 Hz	0.01 s	0 dB
150 kHz - 1 MHz	4 kHz	PK+	9 kHz	0.01 s	0 dB
1 MHz - 30 MHz	20 kHz	PK+	100 kHz	0.01 s	0 dB

Diagram No.:

36.45_RSE_Ch4233_RMC_Sweep2

Common Information

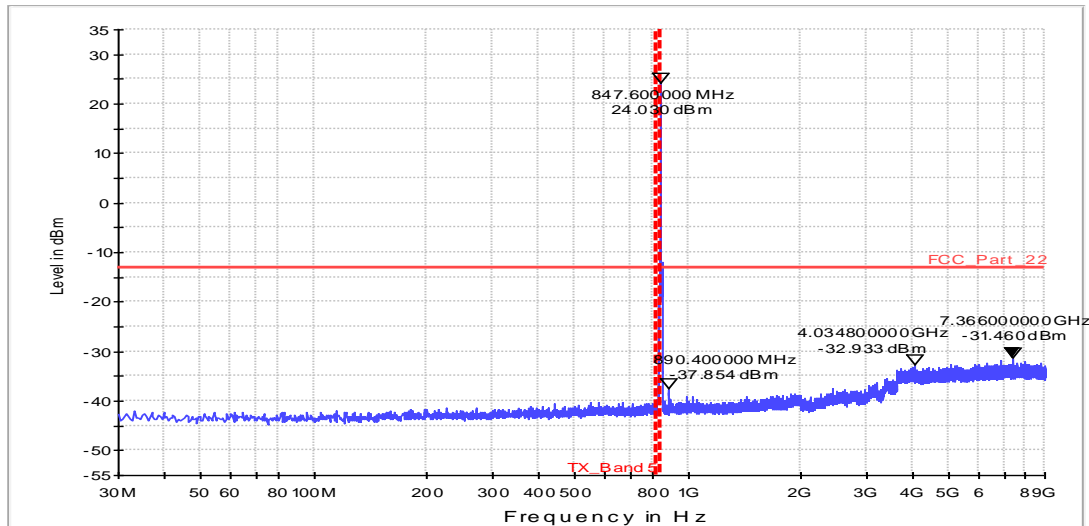
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22, RSS-132
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	Dpa
Operating mode:	TX - Channel 4233

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

Fula2_FCC_22_Scan2_30MHz_9GHz



Scan Setup: Fula2_FCC_22_Scan2_30MHz_9GHz [EMI radiated]

Hardware Setup:	Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver:	[ESU 26]
Level Unit:	dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 9 GHz	400 kHz	PK+	1 MHz	0.02 s	0 dB

1.8.1. Band-Edge emissions FDD Band II

Diagram No.: 37.60_BE_Ch9262_RMC_PK

Common Information

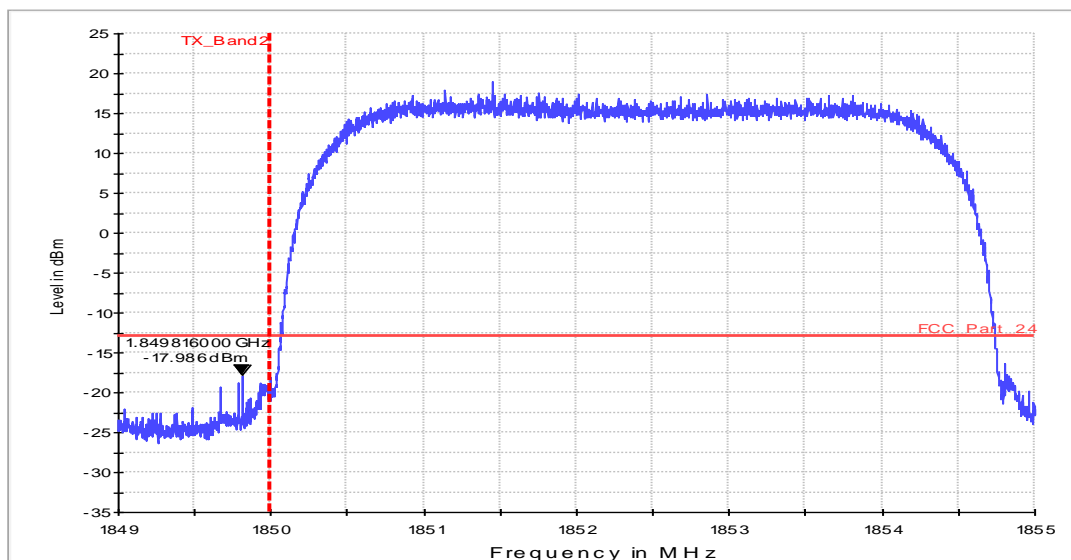
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 24
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator:	Dpa
Operating mode:	TX - Channel 9262

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

Fula2_FCC_24_BE_LOW_9262



Scan Setup: Fula2_FCC_24_BE_LOW_9262 [EMI radiated]

Hardware Setup:	Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver:	[ESU 26]
Level Unit:	dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
1.849 GHz - 1.855 GHz	2 kHz	PK+	50 kHz	0.02 s	0 dB

Diagram No. 37.61_BE_Ch9538_RMC_PK

Common Information

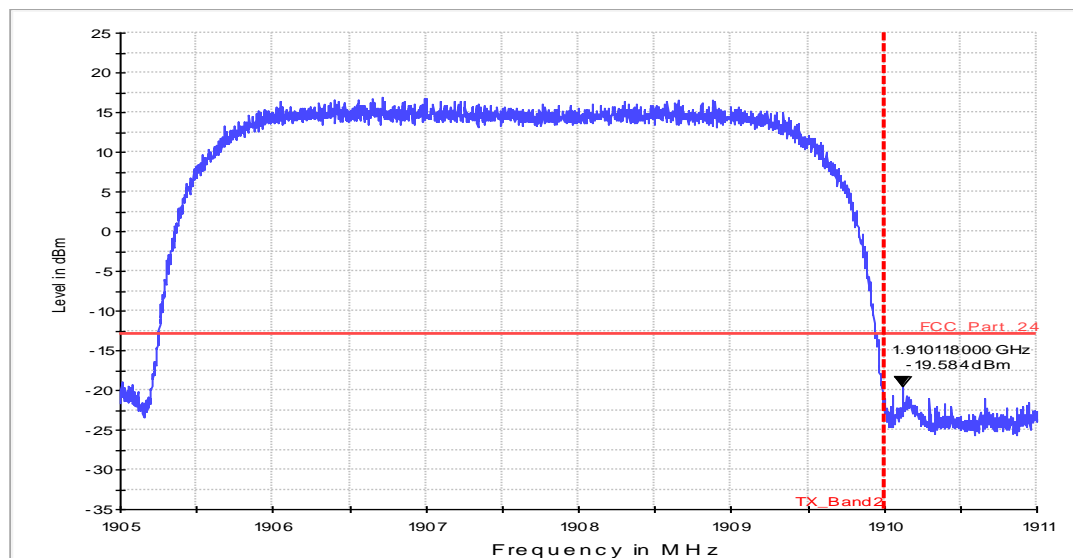
Test Description:	Transmitter unwanted emissions (Band-Edge)/ FCC requirements
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 24
Environment Conditions:	Normal conditions (Vnominal, Tnominal)
Operator Name:	Dpa
Operating mode:	TX - Channel 9538

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

Fula2_FCC_24_BE_High_9538



Scan Setup: Fula2_FCC_24_BE_High_9538 [EMI radiated]

Hardware Setup:	Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver:	[ESU 26]
Level Unit:	dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
1.905 GHz - 1.911 GHz	2 kHz	PK+	50 kHz	0.02 s	0 dB

1.8.2. Band-Edge emissions on FDD Band V

Diagram No.: 37.40_BE_Ch4132_RMC_PK

Common Information

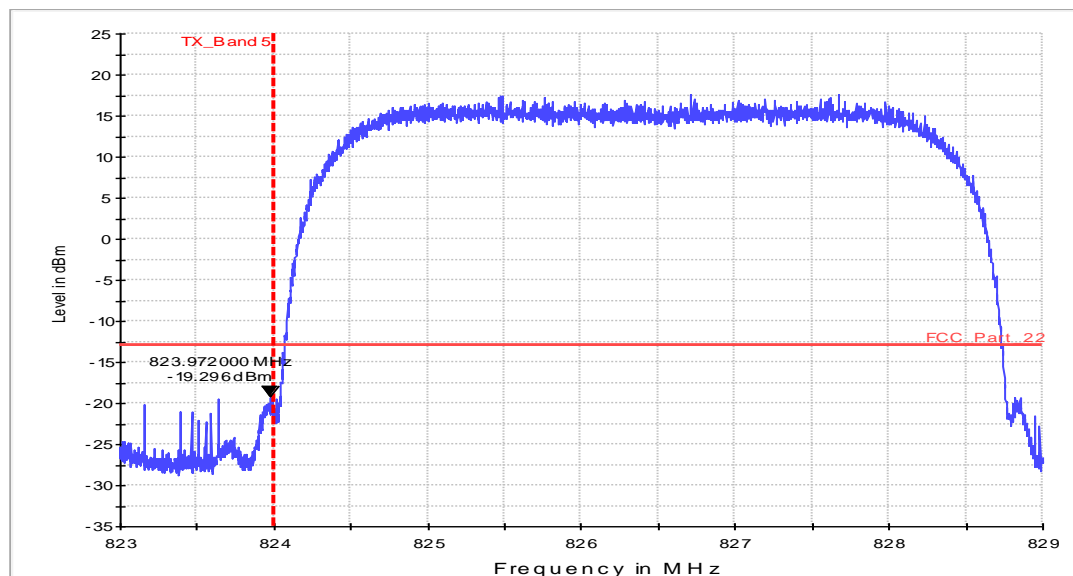
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22
Environment conditions:	Normal conditions (Vnominal, Tnominal)
Operator name:	Dpa
Operating mode:	TX - Channel 4132

EUT Information

Manufacturer:	Peiker
Model:	V1140-103
Type:	GSM/WCDMA Module

EUT:	PKD0054AB0h
HW version:	HW0913
SW version:	M9615A-CETWTAZM-50110010
SVN:	-
Config:	C25
Serial number:	WC#418 V1140-103 HW0913
Connected Interfaces:	microphone + loudspeaker + USB cable + antenna EU 64159
Power Supply:	3.8VDC via external DC Power supply inside chamber
Comments:	-

Fula2_FCC_22_BE_LOW_4132



Scan Setup: Fula2_FCC_22_BE_LOW_4132 [EMI radiated]

Hardware Setup:	Fula2_HW_08_FCC_22_24_6dB_coupler
Receiver:	[ESU 26]
Level Unit:	dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
823 MHz - 829 MHz	2 kHz	PK+	50 kHz	0.02 s	0 dB

Diagram No.: 37.41_BE_Ch4233_RMC_PK

Common Information

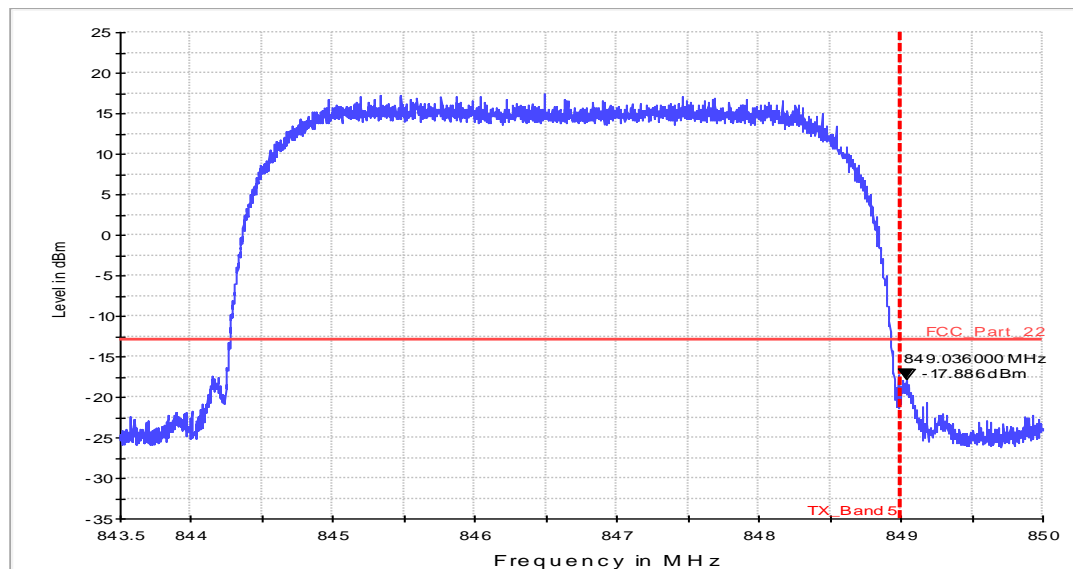
Test Description: TX Spurious Emission Conducted §2.1051
 Test Site: Radio laboratory 2
 Test Standard: FCC Part 22
 Environment conditions: Normal conditions (Vnominal, Tnominal)
 Operator name: Dpa
 Operating mode: TX - Channel 4233

EUT Information

Manufacturer: Peiker
 Model: V1140-103
 Type: GSM/WCDMA Module

EUT: PKD0054AB0h
 HW version: HW0913
 SW version: M9615A-CETWTAZM-50110010
 SVN: -
 Config: C25
 Serial number: WC#418 V1140-103 HW0913
 Connected Interfaces: microphone + loudspeaker + USB cable + antenna EU 64159
 Power Supply: 3.8VDC via external DC Power supply inside chamber
 Comments: -

Fula2_FCC_22_BE_High_4233



Scan Setup: Fula2_FCC_22_BE_High_4233 [EMI radiated]

Hardware Setup: Fula2_HW_08_FCC_22_24_6dB_coupler
 Receiver: [ESU 26]
 Level Unit: dBm

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
843.5 MHz - 850 MHz	2 kHz	PK+	50 kHz	0.02 s	0 dB