

Annex 1: Measurement diagrams to
TEST REPORT
 No.: 16-1-0141801T02a-C1

According to:
FCC Regulations
 Part 22, Part 24

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

for

Daimler Trucks North America

ECU

CTPMIDDTNA

FCC-ID: 2AKC8CTP054661

IC: 22221-CTP054661

PMN: CTPMIDDTNA

HVIN: CTPMIDDTNA

FVIN: 16.095.2







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-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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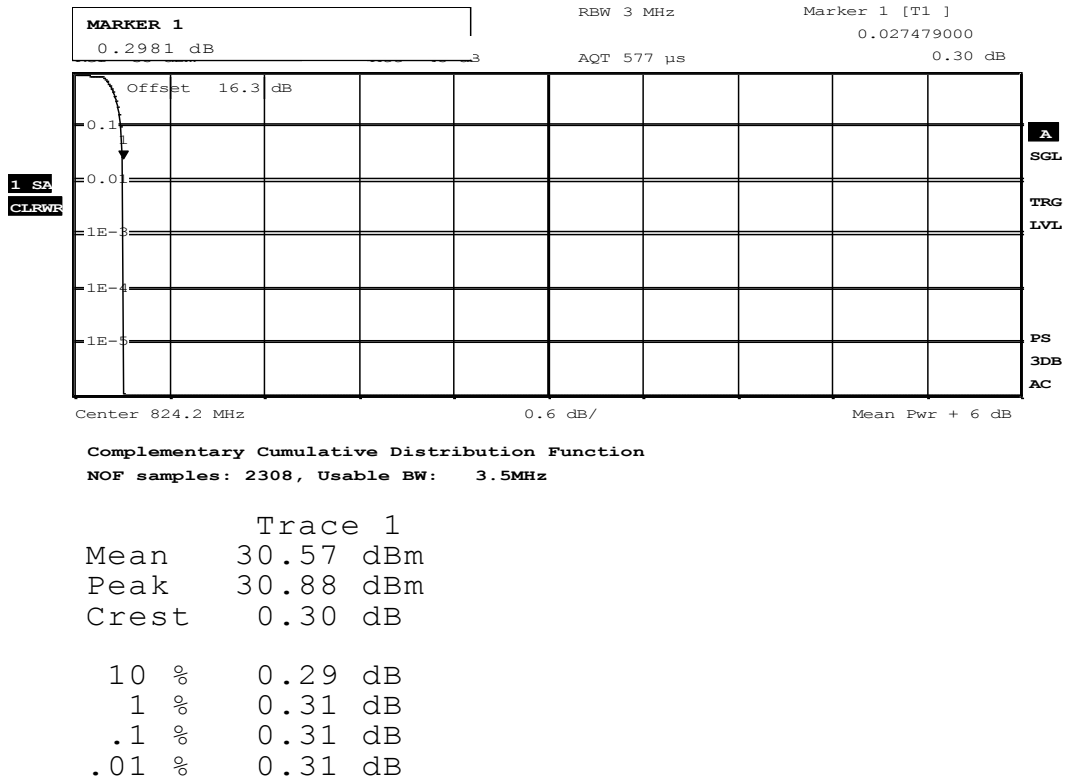
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1. Measurement diagrams

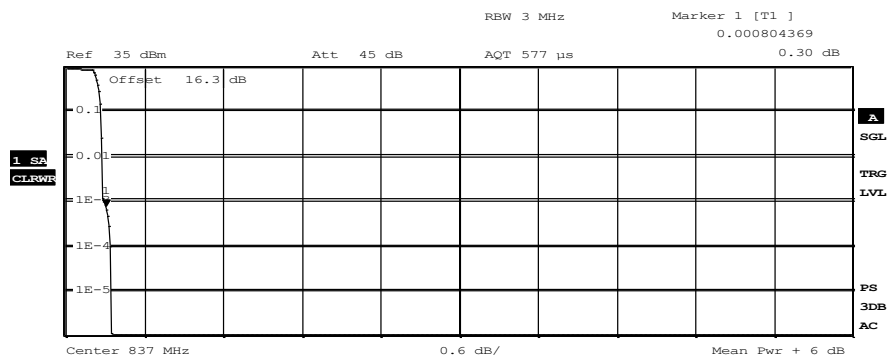
1.1. Power Measurements and PAPR-Value

1.1.1. GSM 850 (GMSK Modulation)



Date: 14.DEC.2016 14:30:11

Diagram CCDF_128_GMSK



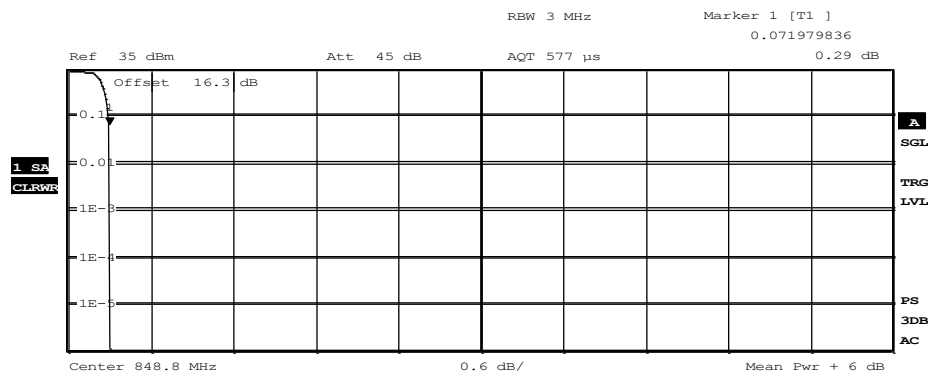
Complementary Cumulative Distribution Function
NOF samples: 2308, Usable BW: 3.5MHz

Trace 1
Mean 30.46 dBm
Peak 30.80 dBm
Crest 0.34 dB

10 % 0.26 dB
1 % 0.28 dB
.1 % 0.29 dB
.01 % 0.34 dB

Date: 14.DEC.2016 14:31:53

Diagram CCDF_192_GMSK



Complementary Cumulative Distribution Function
NOF samples: 2308, Usable BW: 3.5MHz

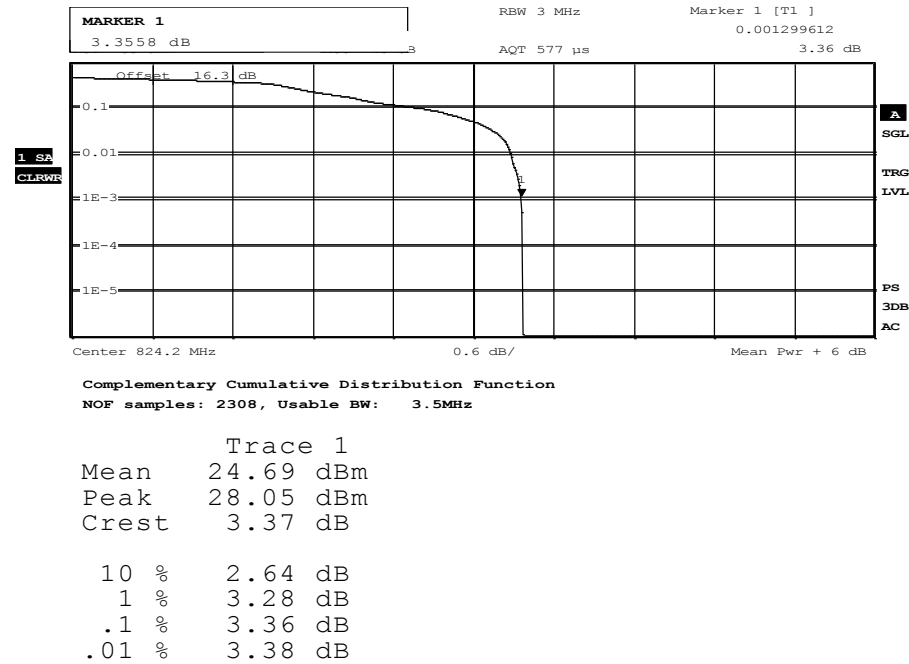
Trace 1
Mean 30.37 dBm
Peak 30.66 dBm
Crest 0.30 dB

10 % 0.29 dB
1 % 0.30 dB
.1 % 0.30 dB
.01 % 0.30 dB

Date: 14.DEC.2016 14:33:28

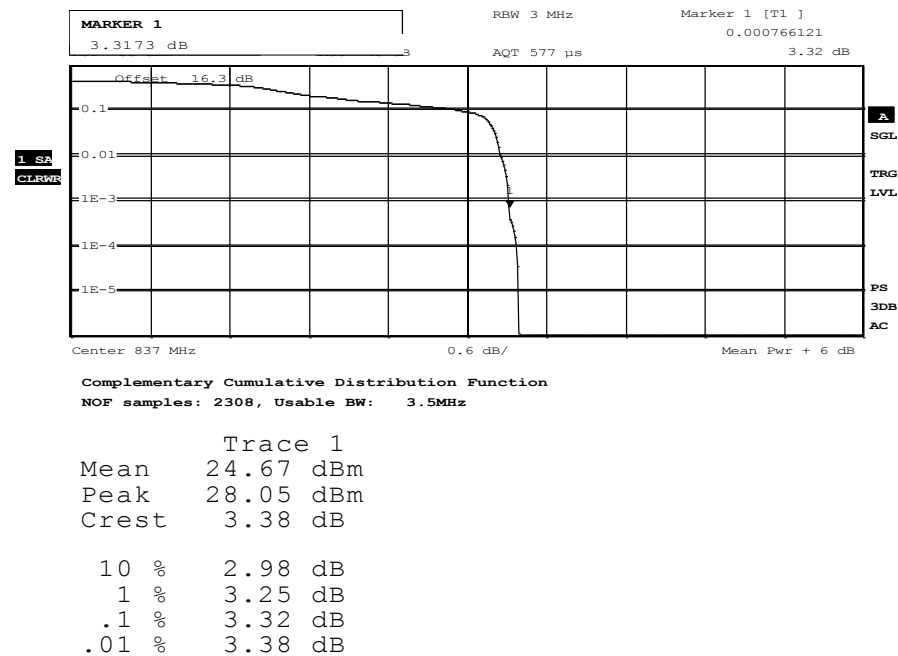
Diagram CCDF_251_GMSK

1.1.2. GSM 850 (8-PSK Modulation)



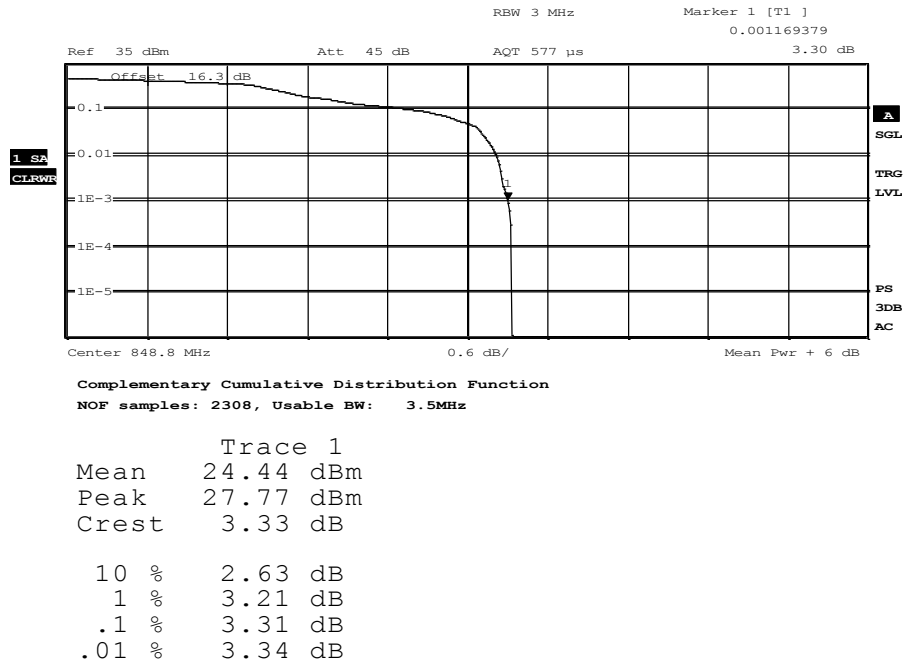
Date: 14.DEC.2016 14:12:51

Diagram CCDF_128_8PSK



Date: 14.DEC.2016 14:16:35

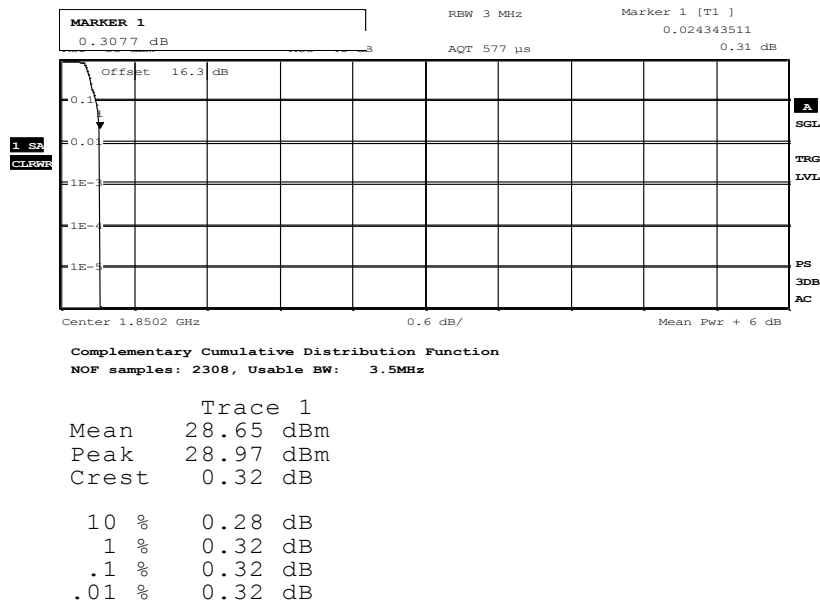
Diagram CCDF_192_8PSK



Date: 14.DEC.2016 14:21:06

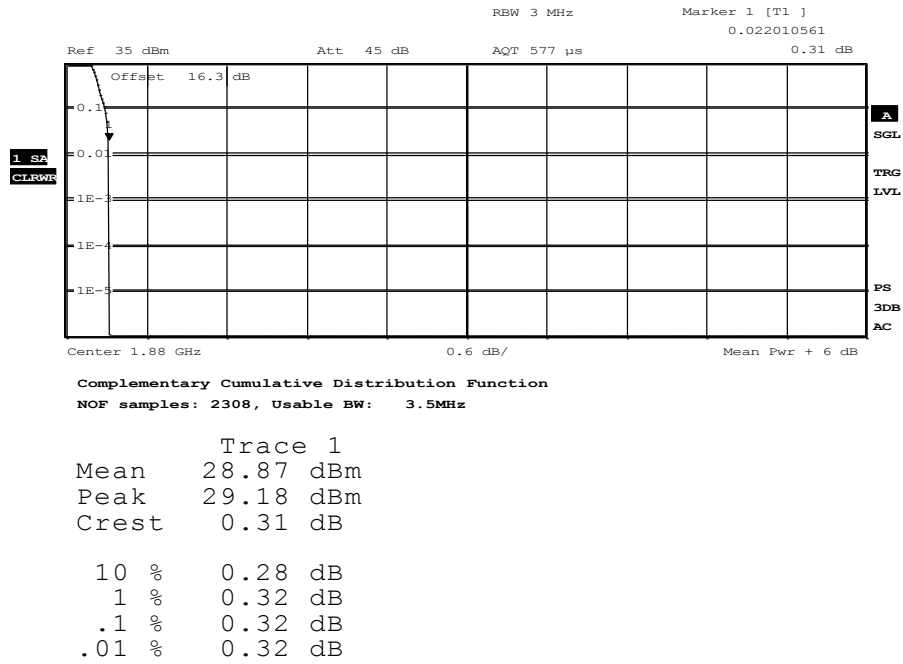
Diagram CCDF_251_8PSK

1.1.3. GSM 1900 (GMSK Modulation)



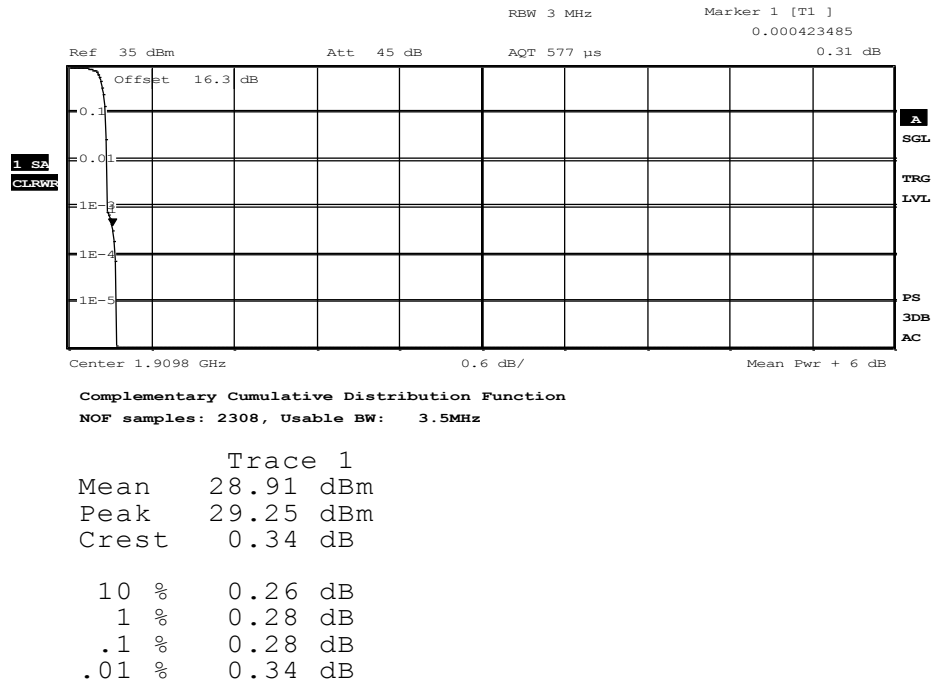
Date: 14.DEC.2016 14:50:22

Diagram CCDF_512_GMSK



Date: 14.DEC.2016 14:53:55

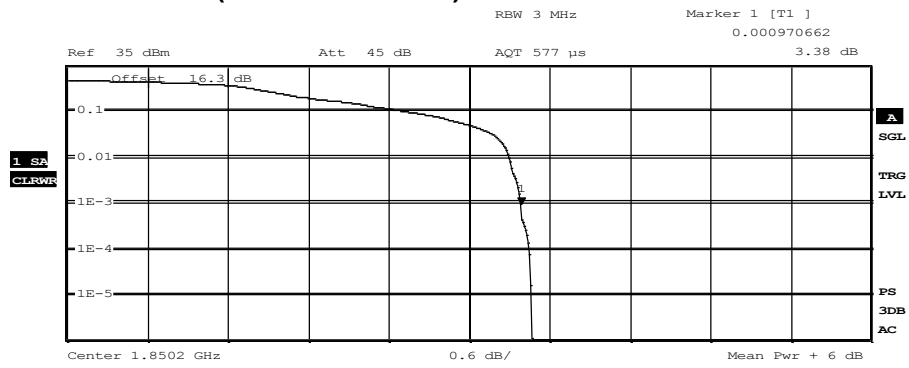
Diagram CCDF_661_GMSK



Date: 14.DEC.2016 14:55:16

Diagram CCDF_810_GMSK

1.1.4. GSM 1900 (8-PSK Modulation)



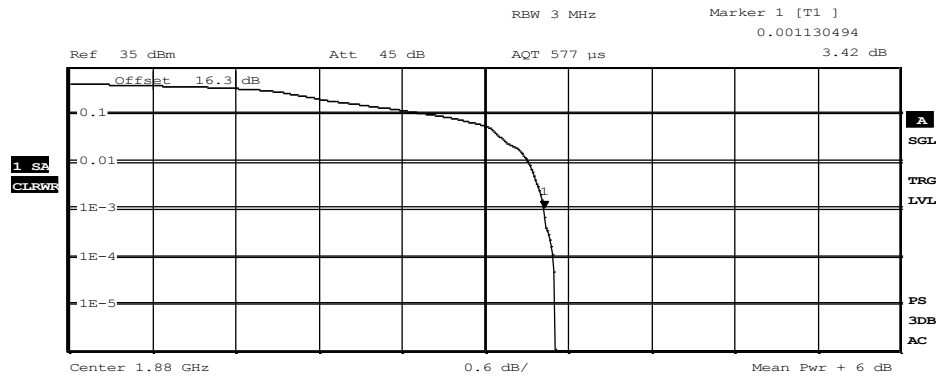
Complementary Cumulative Distribution Function
NOF samples: 2308, Usable BW: 3.5MHz

Trace 1
Mean 22.69 dBm
Peak 26.15 dBm
Crest 3.46 dB

10 % 2.57 dB
1 % 3.30 dB
.1 % 3.38 dB
.01 % 3.45 dB

Date: 14.DEC.2016 14:47:23

Diagram CCDF_512_8PSK



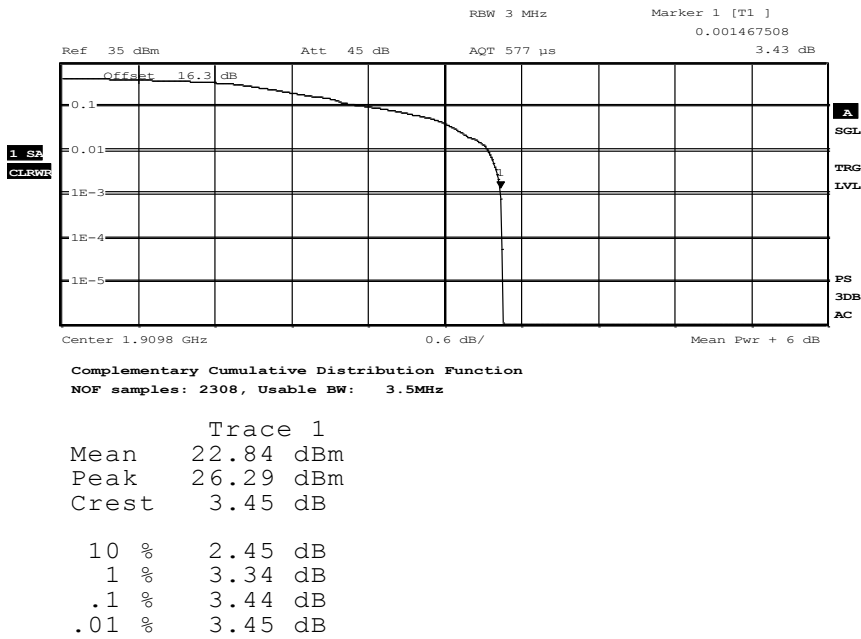
Complementary Cumulative Distribution Function
NOF samples: 2308, Usable BW: 3.5MHz

Trace 1
Mean 22.79 dBm
Peak 26.29 dBm
Crest 3.50 dB

10 % 2.65 dB
1 % 3.31 dB
.1 % 3.42 dB
.01 % 3.49 dB

Date: 14.DEC.2016 14:45:58

Diagram CCDF_661_8PSK



Date: 14.DEC.2016 14:43:16

Diagram CCDF_810_8PSK

1.2. Magnetic field emissions radiated (850 MHz transmitting mode)

Diagram No. 2.01_GSM_850_Ch128

Test description:	Date: 13.12.2016 Page 1 of 1
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	YSa
Operating conditions:	GSM850 Ch128
Power during tests:	12V DC
Comment 1:	
Comment 2:	

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003843
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum

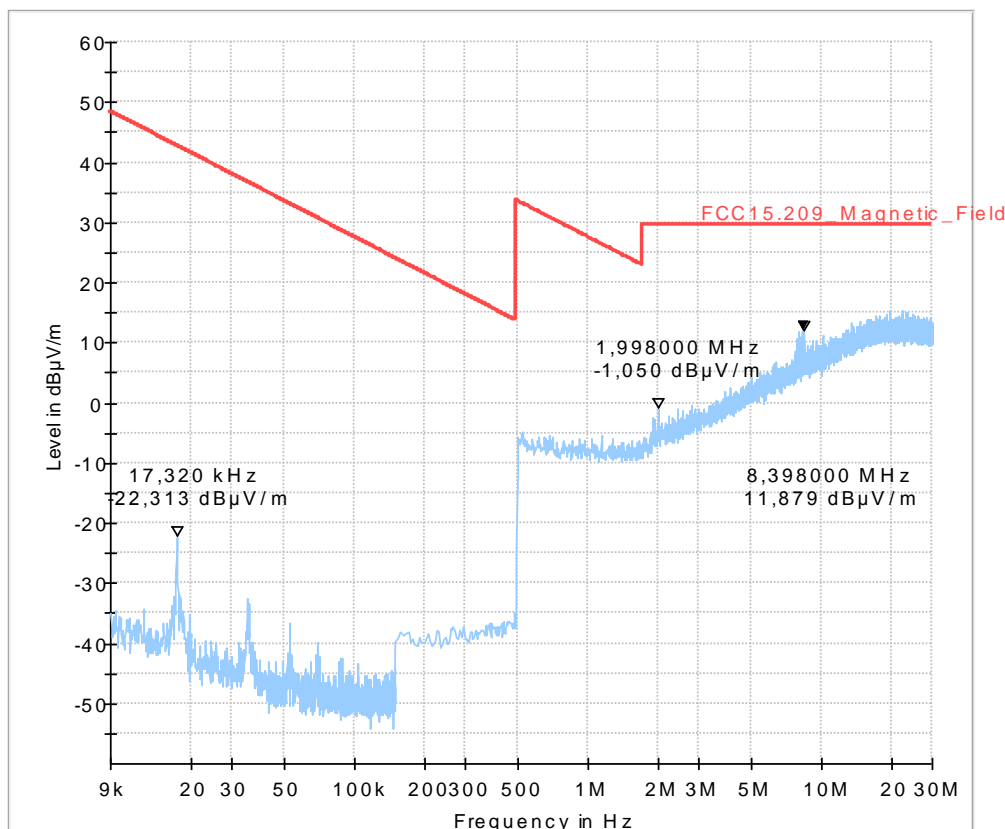


Diagram No. 2.02_GSM850_Ch192

Test description:	Date: 13.12.2016 Page 1 of 1
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	YSa
Operating conditions:	GSM850 Ch192
Power during tests:	12V DC
Comment 1:	Channel middle
Comment 2:	

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003843
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum

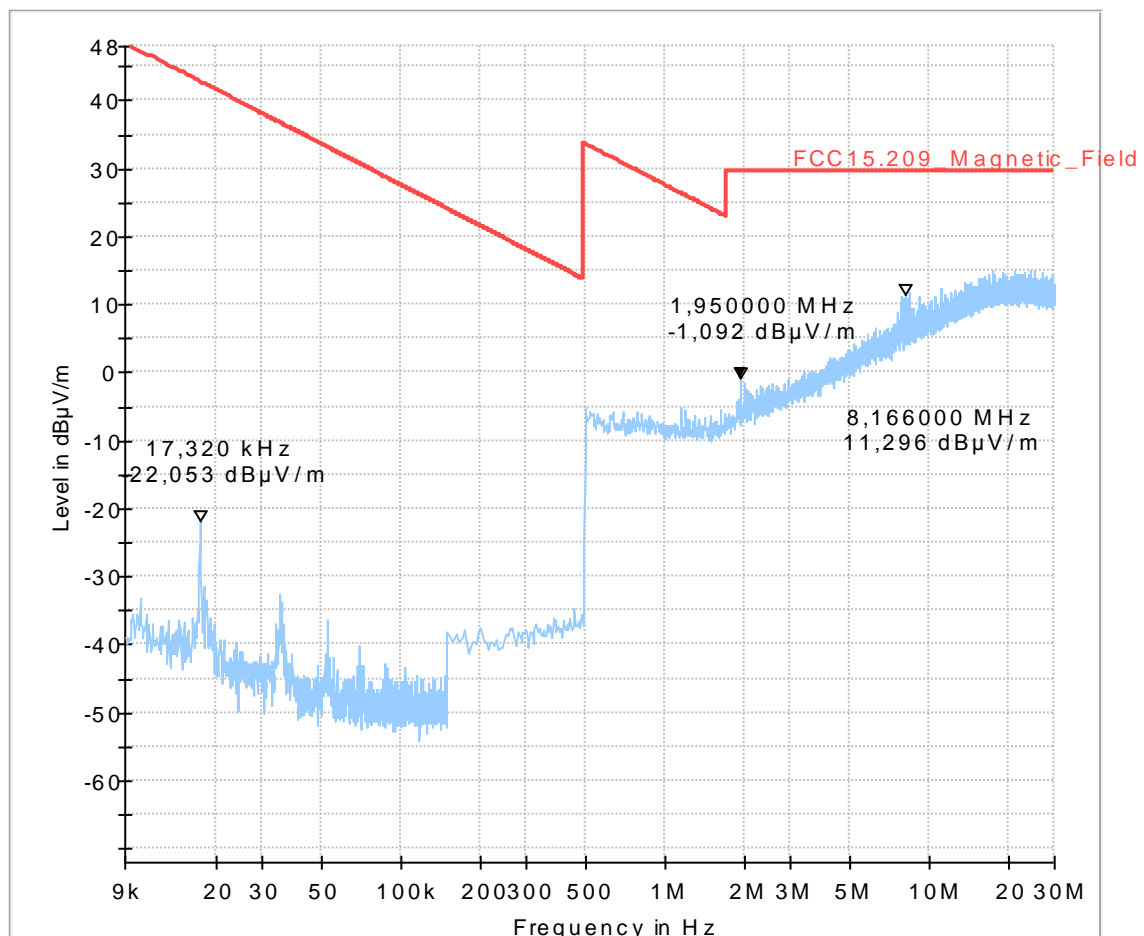
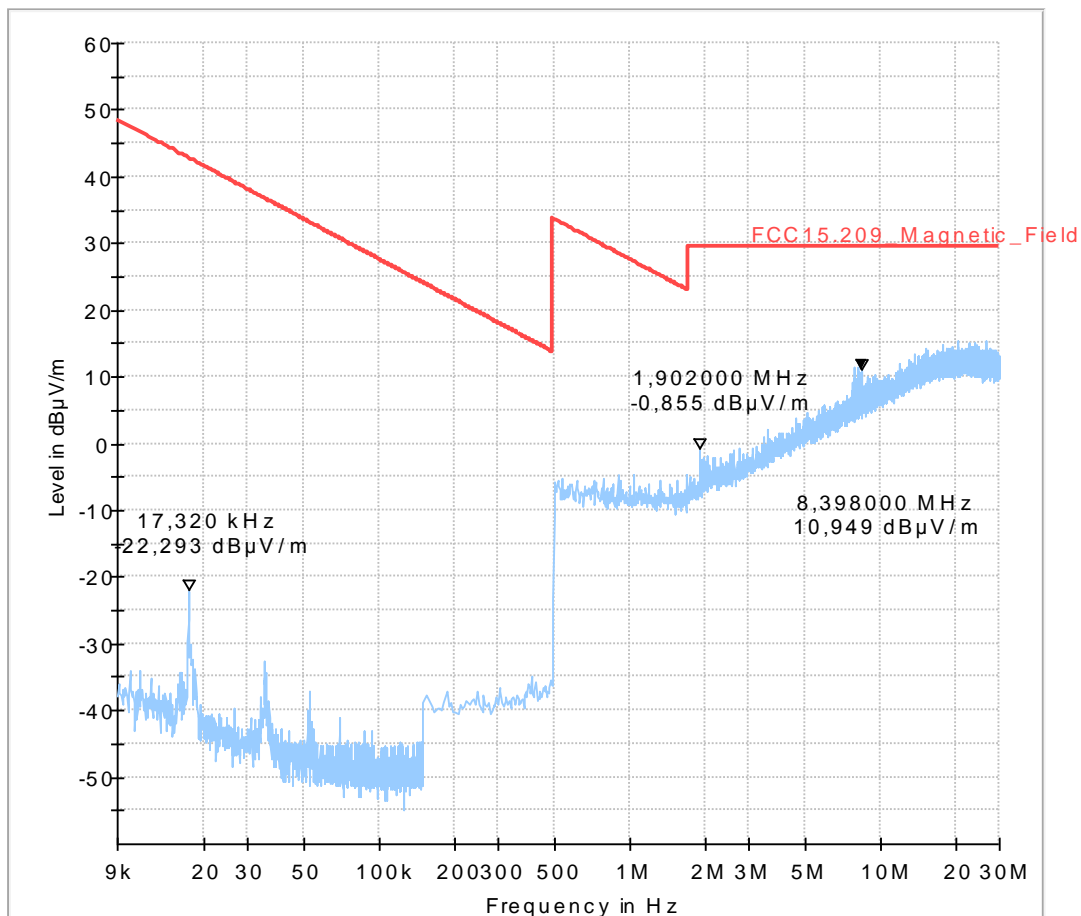


Diagram No. 2.03_GSM850_Ch251

Test description:	Date: 13.12.2016 Page 1 of 1
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	YSa
Operating conditions:	GSM850 C251
Power during tests:	12V DC
Comment 1:	
Comment 2:	

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003843
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC



1.3. Magnetic field emissions radiated 1900 MHz transmitting mode)

Diagram No. 2.04_GSM_1900_Ch512

Test description:	Date: 13.12.2016 Page 1 of 5
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	HLa
Operating conditions:	TX-on
Power during tests:	12V DC
Comment 1:	Channel low
Comment 2:	

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003843
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum

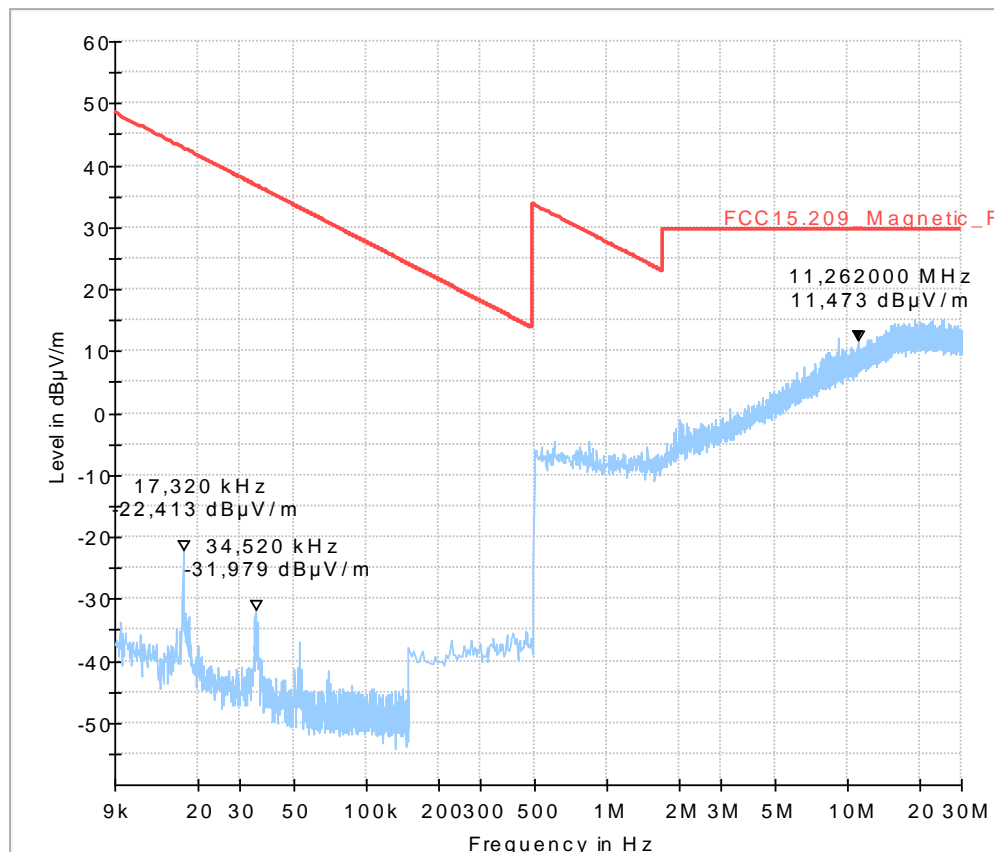


Diagram No. 2.05_GSM_1900_Ch661

Test description:	Date: 13.12.2016 Page 1 of 5
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	YSa
Operating conditions:	GSM1900 Ch: 661
Power during tests:	12V DC

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003843
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum

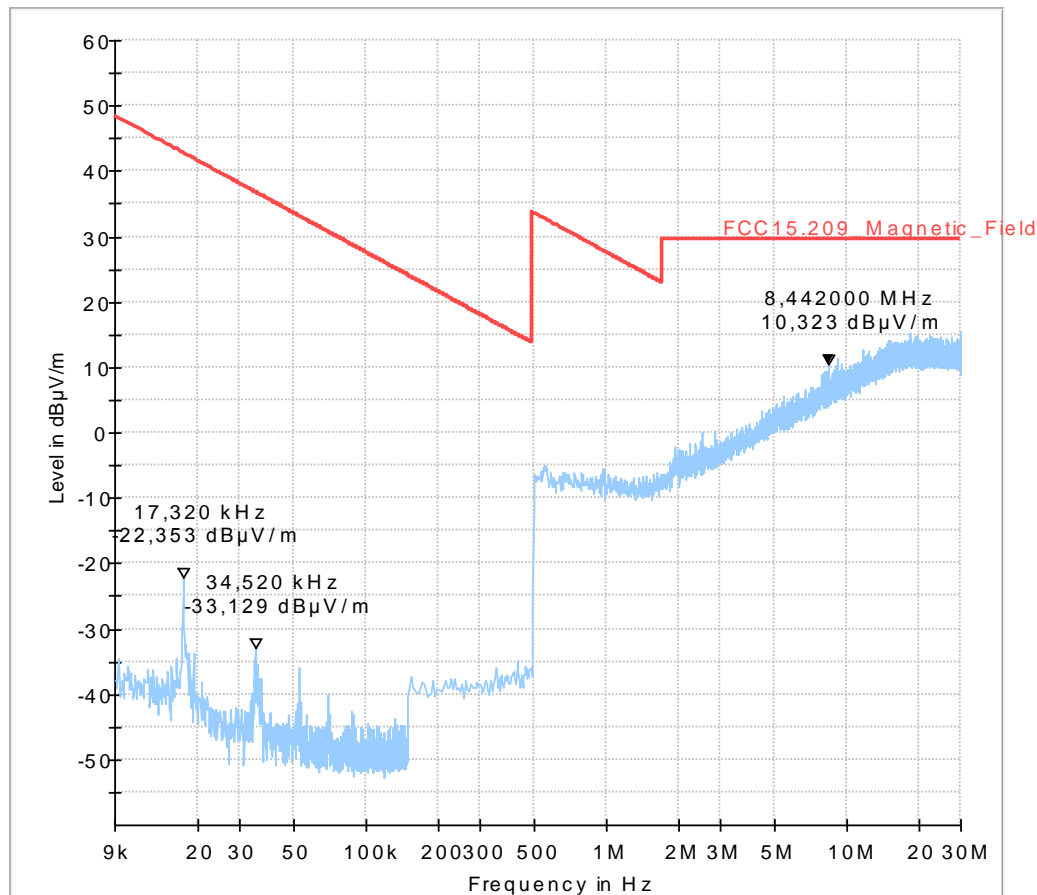


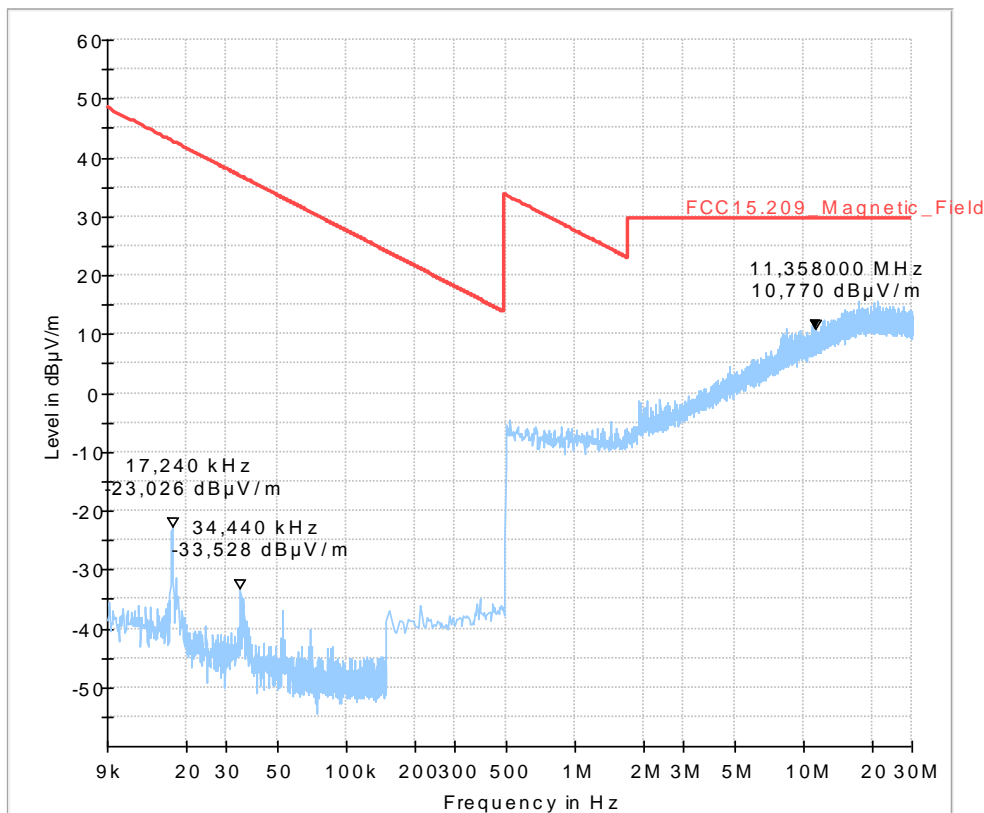
Diagram No. 2.06_GSM_1900_Ch810

Test description:	Date: 13.12.2016 Page 1 of 5
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	HLA
Operating conditions:	GSM1900 Ch: 810
Power during tests:	12 V DC
Comment 1:	Channel high
Comment 2:	

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003843
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum



1.4. Spurious emissions radiated (850 MHz transmitting mode)

8.01_RSE_R_Ch128_GSM

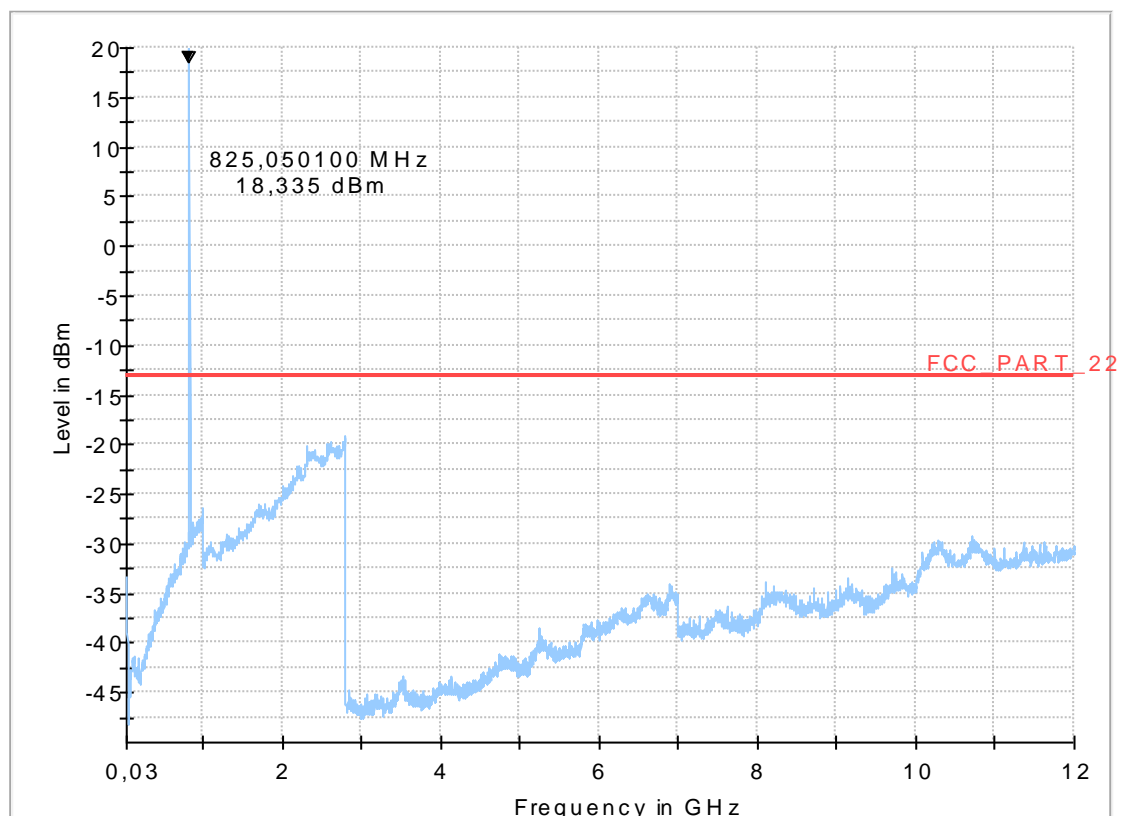
Common Information

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 128,190,251
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 45%rH; Temperature: 19°C
Operator:	HLa

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
<hr/>	
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003843
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum



8.02_RSE_R_Ch192_GSM

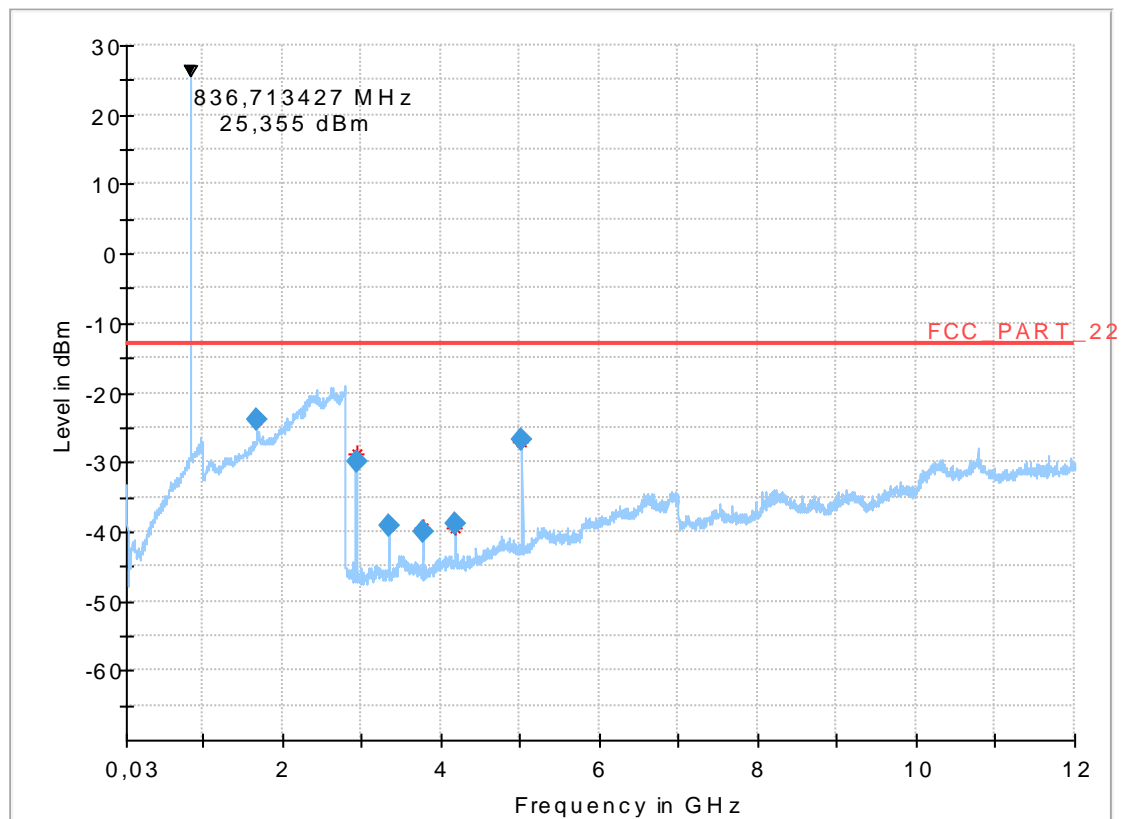
Common Information

Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Operating Mode:	MS allocated UL channel 192
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RLs

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003846
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1673.877755	-23.77	-	10.77	5000.0	1000.000	H	210.0	0.0	-63.1
2929.128257	-29.85	-	16.85	5000.0	1000.000	V	267.0	0.0	-96.2
3347.885771	-39.05	-	26.05	5000.0	1000.000	V	275.0	0.0	-95.6
3766.002004	-39.94	-	26.94	5000.0	1000.000	V	321.0	0.0	-95.1
4184.919840	-38.93	-	25.93	5000.0	1000.000	H	270.0	90.0	-93.4
5021.993988	-26.73	-	13.73	5000.0	1000.000	V	-17.0	0.0	-91.1

8.03_RSE_R_Ch251_GSM

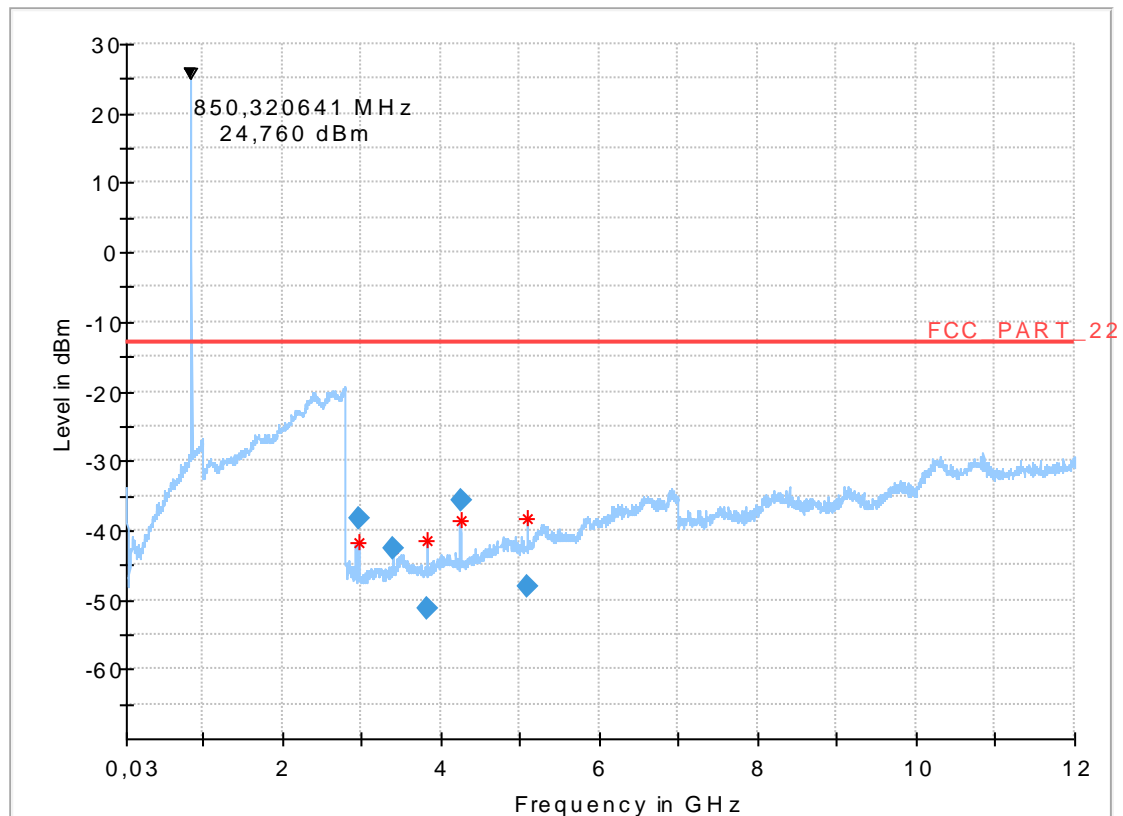
Common Information

Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Operating Mode:	MS allocated UL channel 251
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RLs

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003846
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2970.831663	-38.27	-	25.27	5000.0	1000.000	H	152.0	0.0	-96.3
3395.000000	-42.53	-	29.53	5000.0	1000.000	V	225.0	0.0	-95.4
3823.997996	-51.24	-	38.24	5000.0	1000.000	V	234.0	0.0	-95.1
4243.977956	-35.68	-	22.68	5000.0	1000.000	H	247.0	0.0	-93.5
5090.591183	-47.97	-	34.97	5000.0	1000.000	V	243.0	0.0	-90.9

1.5. Spurious emissions radiated (1900 MHz transmitting mode)

8.13_RSE_R_Ch512_GPRS

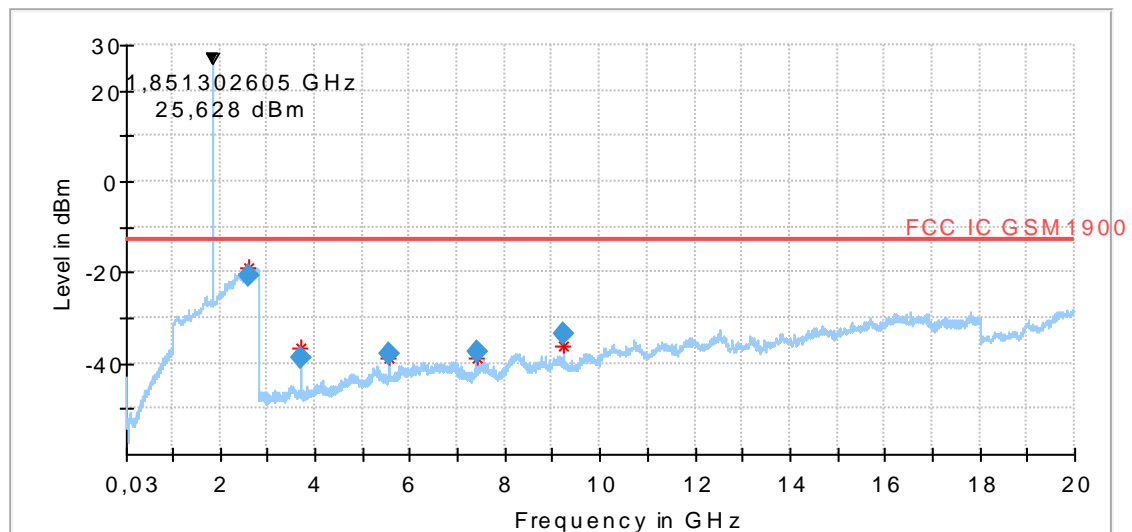
Common Information

Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part24.238
Test Case:	-
Operating Mode:	MS allocated UL channel 512,661,810
Exclusionband:	1850 - 1910MHz
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	HLA

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003846
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2609.463928	-	7.64	1000.0	1000.000	155.0	V	225.0	0.0	-58.9
3700.245491	-	25.75	1000.0	1000.000	155.0	V	11.0	90.0	-94.9
5550.395791	-	25.07	1000.0	1000.000	155.0	V	-41.0	90.0	-89.9
7401.057114	-	24.50	1000.0	1000.000	155.0	H	266.0	0.0	-84.3
9250.676353	-	20.57	1000.0	1000.000	155.0	H	178.0	0.0	-81.6

8.14_RSE_R_Ch661_GPRS

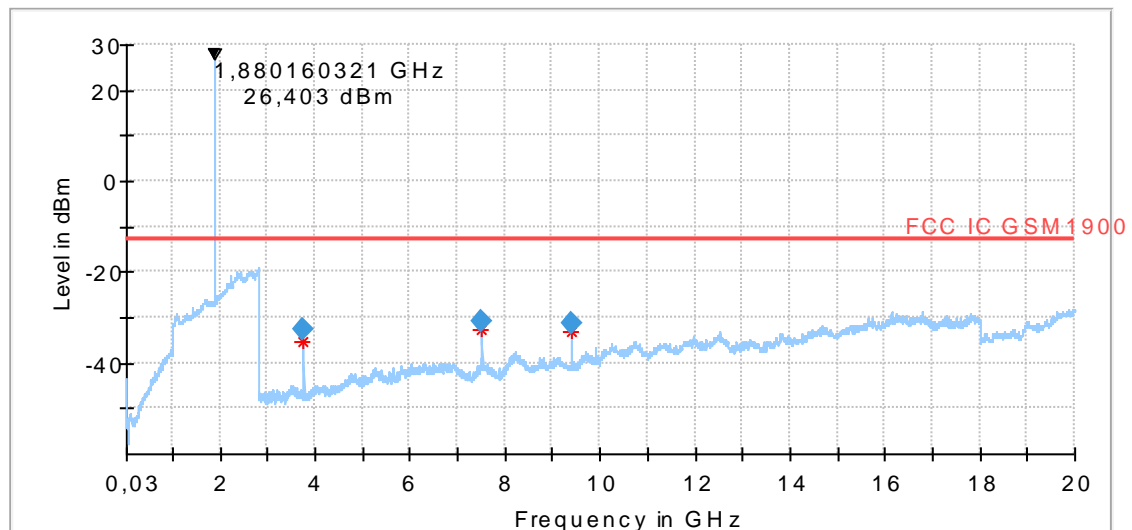
Common Information

Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part24.238
Test Case:	-
Operating Mode:	MS allocated UL channel 661
Exclusionband:	1850 - 1910MHz
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	HLA

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003846
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3760.125250	-	19.67	1000.0	1000.000	155.0	V	-38.0	90.0	-95.1
7519.724449	-	17.76	1000.0	1000.000	155.0	V	142.0	0.0	-83.4
9399.664328	-	18.18	1000.0	1000.000	155.0	V	226.0	90.0	-82.8

8.15_RSE_R_Ch810_GPRS

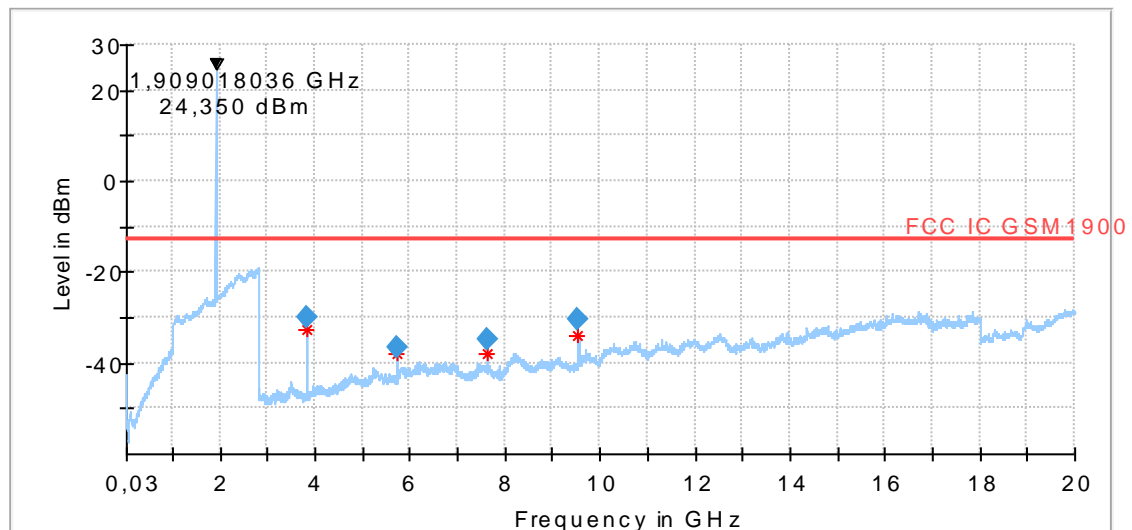
Common Information

Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part24.238
Test Case:	-
Operating Mode:	MS allocated UL channel 810
Exclusionband:	1850 - 1910MHz
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	HLA

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003846
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3819.734469	-	17.09	1000.0	1000.000	155.0	V	-39.0	90.0	-95.1
5729.604209	-	23.71	1000.0	1000.000	155.0	V	-15.0	90.0	-89.4
7639.453908	-	21.83	1000.0	1000.000	155.0	H	194.0	0.0	-84.0
9548.662324	-	17.46	1000.0	1000.000	155.0	H	193.0	0.0	-81.9

1.6. Radiated emissions on 850 MHz transmitting band-edge

9.04_BE_R_Ch128_GSM

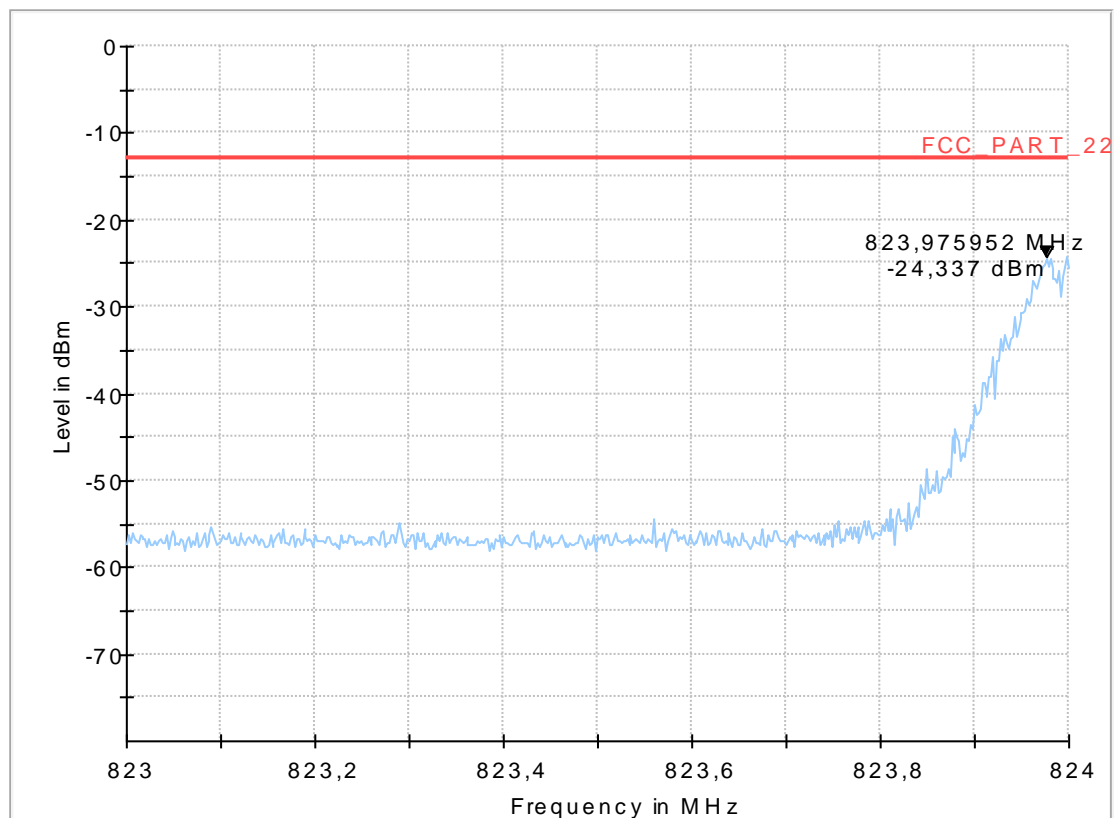
Common Information

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 128 (fc = 824.2MHz), Voice, PCL5 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RI

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
-----	-----
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003846
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum



9.05_BE_R_Ch251_GSM

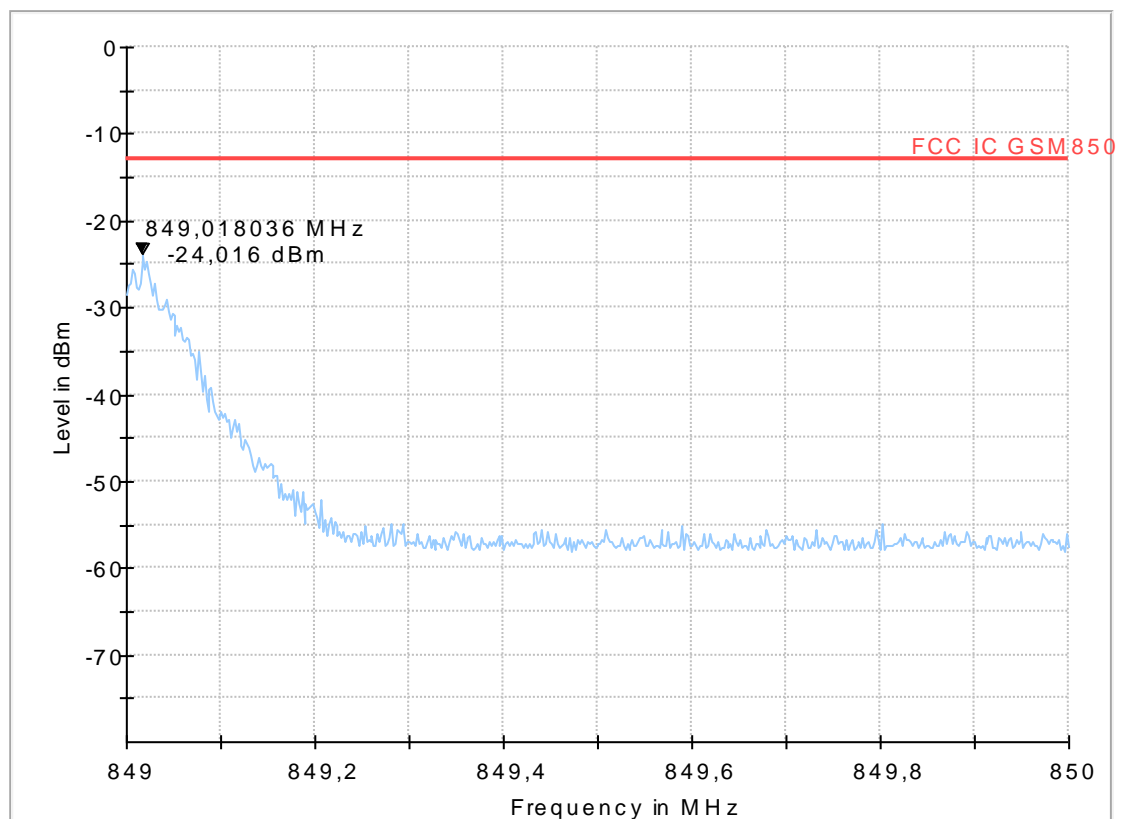
Common Information

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, PCL0 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	RI's

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
-----	-----
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003846
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum



1.7. Radiated emissions on 1900 MHz transmitting band-edge

9.10_BE_R_Ch810_GPRS

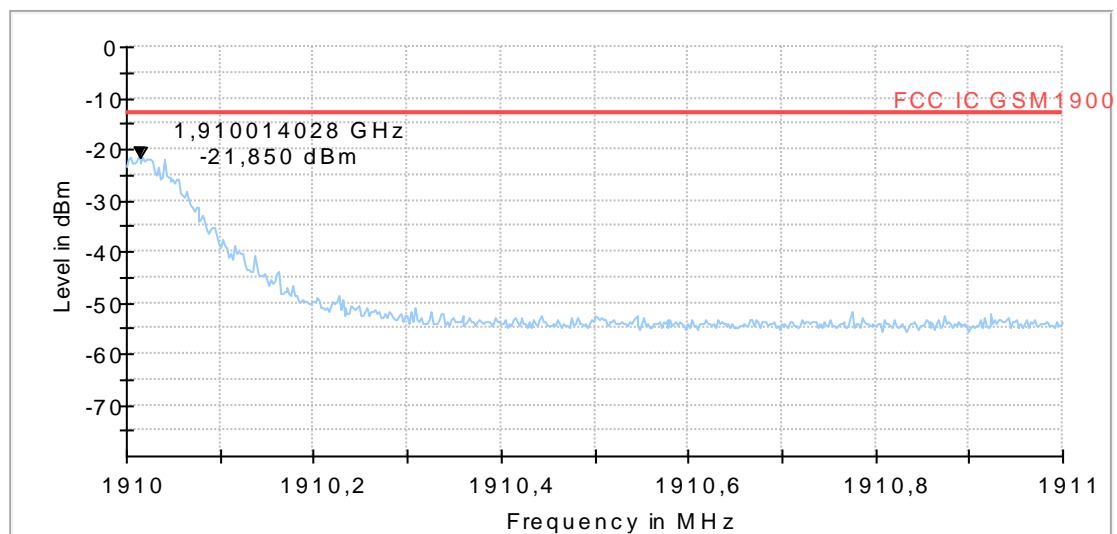
Common Information

Test Description:	Radiated Spurious Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24.238
Comm. Link:	GSM1900, Voice/EDGE
Operating Mode:	MS allocated channel 512 (UL = 1850.2MHz),661(UL = 1880.0MHz),810 (UL = 1909.8MHz)
Exclusionband:	1850- 1910MHz
Environmental Conditions:	Humidity: __%RH; Temperature: __°C
Operator:	

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
-----	-----
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003846
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum



9.109_BE_R_Ch512_GPRS

Common Information

Test Description:	Radiated Spurious Emissions GSM1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24.238
Comm. Link:	GSM1900, EDGE
Operating Mode:	MS allocated channel 512 (UL = 1850.2MHz)
Exclusionband:	1850- 1910MHz
Environmental Conditions:	Humidity: 35%rH; Temperature: 20°C
Operator:	HLa

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2.
Serial Number:	2820003846
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum

