Annex 4: Measurement diagrams
to
DELTA TEST REPORT
No.: 2-0073-13-2a

According to:
FCC Regulations
Part 15, Part 22 & Part 24
IC-Regulations
RSS-132, RSS -133, RSS-210 &
RSS-Gen

for

NCXX Inc.

M2M 3G/2G Communication Unit - AX8084NC

FCC ID: **SLKAX8084NX**
IC: **11066A-AX8084NX**

Laboratory Accreditation and Listings			
DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01	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-2665, 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			

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1. Measurement results

1.1. EMI AC Power lines

1.1.1. GSM 850 + GPS – RX Mode

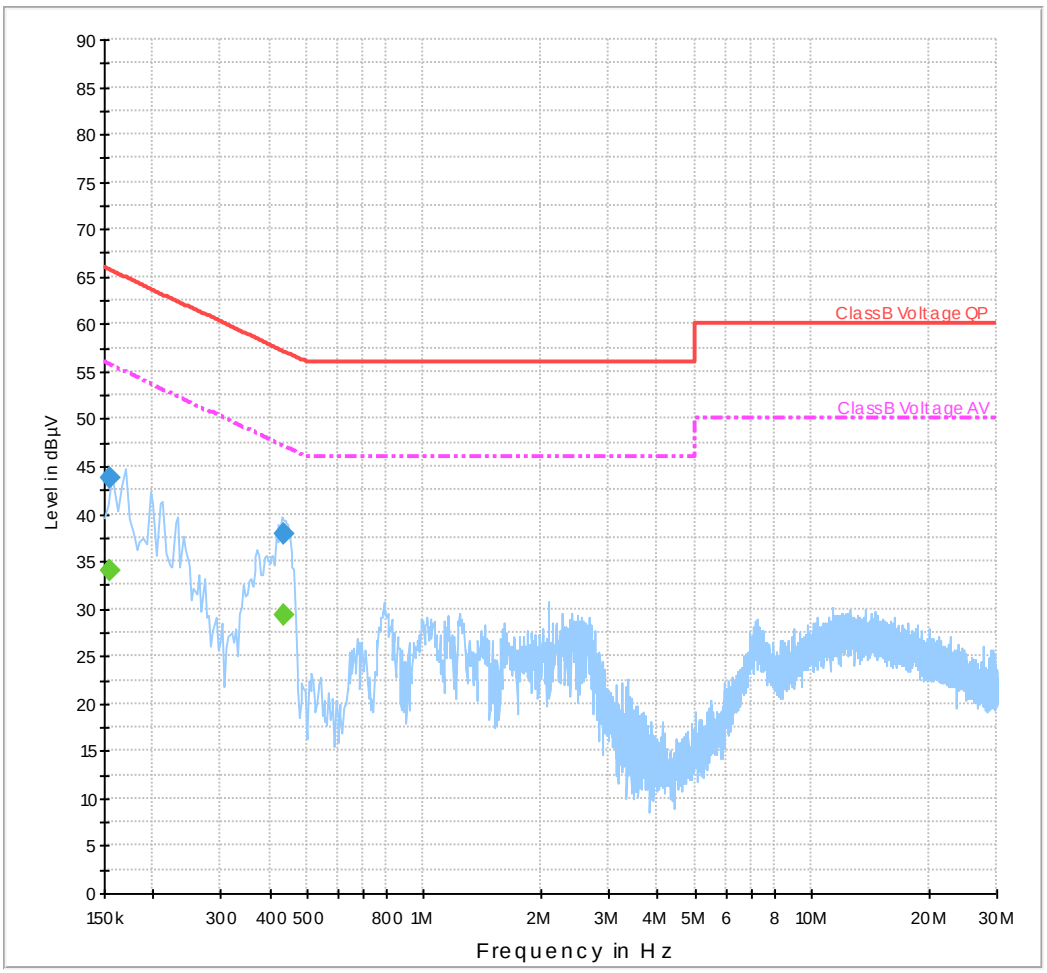
Diagram No. 1.01

	Date: 08.05.2013 Page 1 of 2
Test Description:	Ref.-Nr. 348, Conducted Voltage Measurement Class B
Testspecification:	EN 55011, EN 55022, FCC 15.107, VCCI TR (see Report for more details)
Version of Testsoftware:	EMC32 V8.52.0
Technical Data:	Please see next page for detailed information
Diagram:	Shows the peak values as a sum of measured ports (N+L1) in maxhold mode
Operator name:	HLa
Report.- Nr.	2-0073-13-2
Operating mode:	GSM 850 GPRS IDLE + GPS
Measured on line:	Mains AC L1 and N

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m),AC/DC adapter(MU12-G120100-A1), GPS Antenna
Power supply:	12 V DC

01_Class B_Voltage_PK_QPAV_N_L1



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr.	Margin (dB)	Limit (dBµV)
0.156031	43.8	15000.0	9.000	GND	N	0.1	21.9	65.7
0.437750	37.8	15000.0	9.000	GND	N	0.1	19.3	57.1

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr.	Margin (dB)	Limit (dBµV)
0.156031	33.9	15000.0	9.000	GND	N	0.1	21.8	55.7
0.437750	29.3	15000.0	9.000	GND	N	0.1	17.8	47.1

1.1.2. GSM 850 – TCH Mode

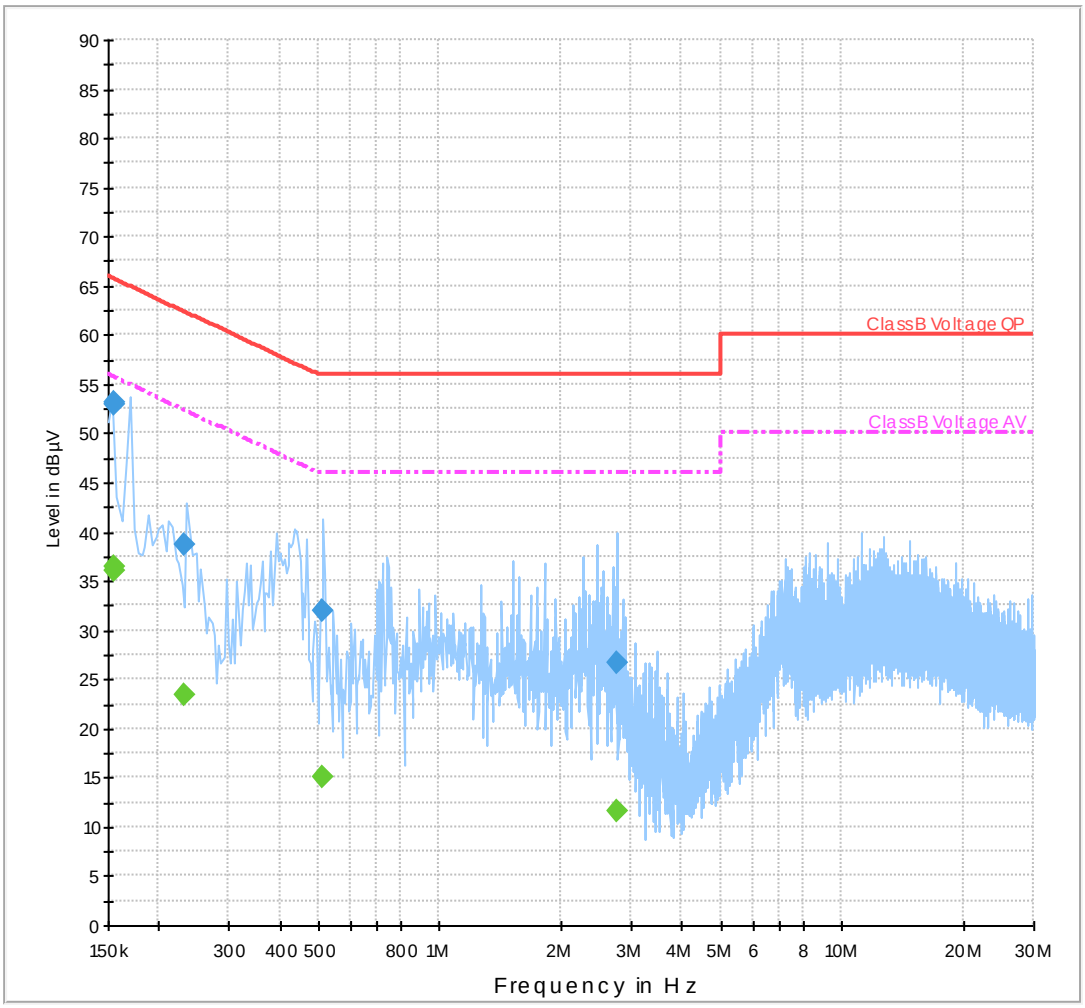
Diagram No. 1.02

	Date: 08.05.2013 Page 1 of 3
Test Description:	Ref.-Nr. 348, Conducted Voltage Measurement Class B
Testspecification:	EN 55011, EN 55022, FCC 15.107, VCCI TR (see Report for more details)
Version of Testsoftware:	EMC32 V8.52.0
Technical Data:	Please see next page for detailed information
Diagram:	Shows the peak values as a sum of measured ports (N+L1) in maxhold mode
Operator name:	HLa
Report.- Nr.	2-0073-13-2
Operating mode:	GSM 850 GPRS (ch=192)
Measured on line:	Mains AC L1 and N

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m),AC/DC adapter(MU12-G120100-A1)
Power supply:	12 V DC

01_Class B_Voltage_PK_QPAV_N_L1



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr.	Margin (dB)	Limit (dBµV)
0.155000	53.0	15000.0	9.000	GND	L1	0.1	12.7	65.7
0.156031	53.1	15000.0	9.000	GND	N	0.1	12.6	65.7
...	...	...	...	...	...	...	...	...

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr.	Margin (dB)	Limit (dBµV)
0.155000	36.1	15000.0	9.000	GND	L1	0.1	19.6	55.7
0.156031	36.4	15000.0	9.000	GND	N	0.1	19.3	55.7
...	...	...	...	...	...	...	...	...

1.1.3. PCS 1900 + GPS – RX Mode

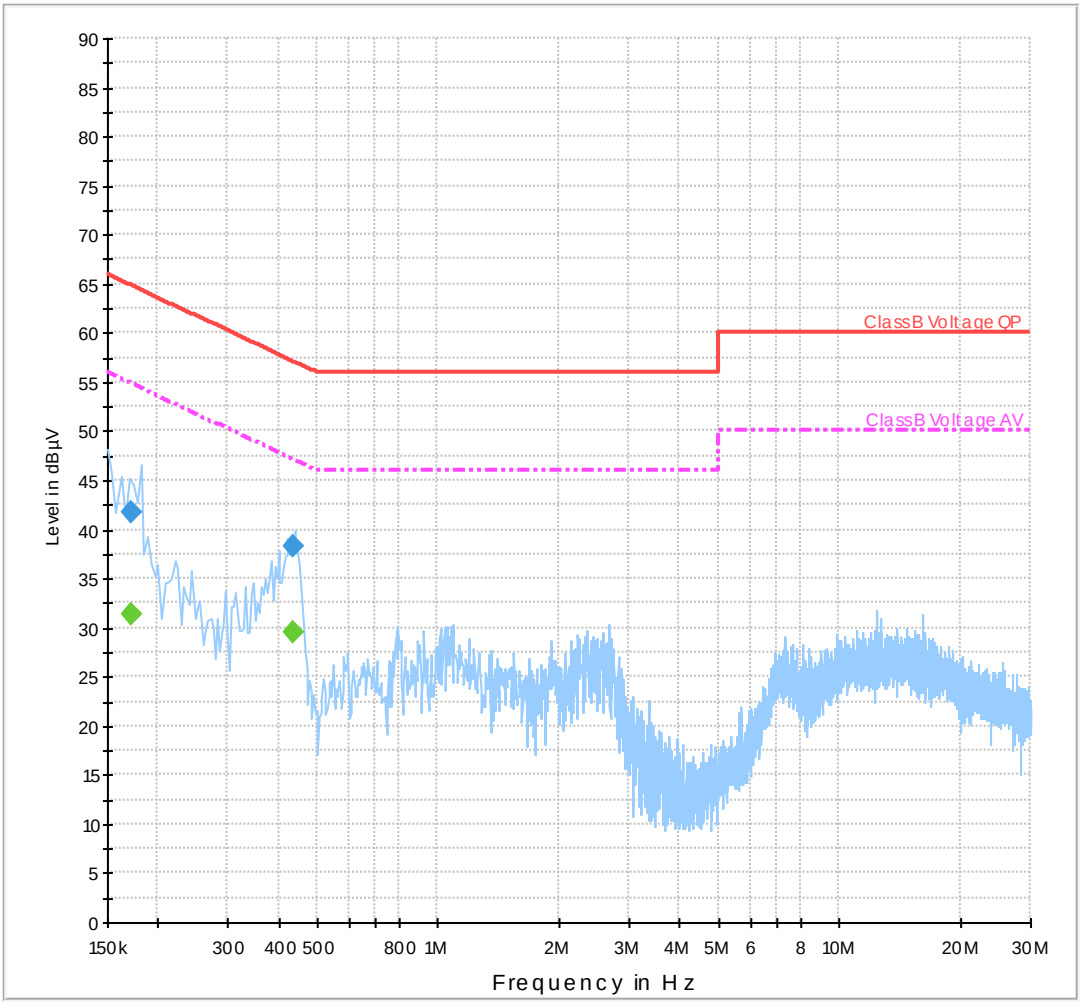
Diagram No. 1.03

	Date: 08.05.2013 Page 1 of 2
Test Description:	Ref.-Nr. 348, Conducted Voltage Measurement Class B
Testspecification:	EN 55011, EN 55022, FCC 15.107, VCCI TR (see Report for more details)
Version of Testsoftware:	EMC32 V8.52.0
Technical Data:	Please see next page for detailed information
Diagram:	Shows the peak values as a sum of measured ports (N+L1) in maxhold mode
Operator name:	HLa
Report.- Nr.	2-0073-13-2
Operating mode:	GSM 1900 (Ch:651) GPRS IDLE + GPS
Measured on line:	Mains AC L1 and N

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m),AC/DC adapter(MU12-G120100-A1) + GPS Antenna
Power supply:	12 V DC

01_Class B_Voltage_PK_QPAV_N_L1



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr.	Margin (dB)	Limit (dBµV)
0.172750	41.7	15000.0	9.000	GND	L1	0.1	23.1	64.8
0.435563	38.2	15000.0	9.000	GND	L1	0.1	18.9	57.1

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr.	Margin (dB)	Limit (dBµV)
0.172750	31.5	15000.0	9.000	GND	L1	0.1	23.4	54.8
0.435563	29.6	15000.0	9.000	GND	L1	0.1	17.6	47.1

1.1.4. PCS 1900 – TCH Mode

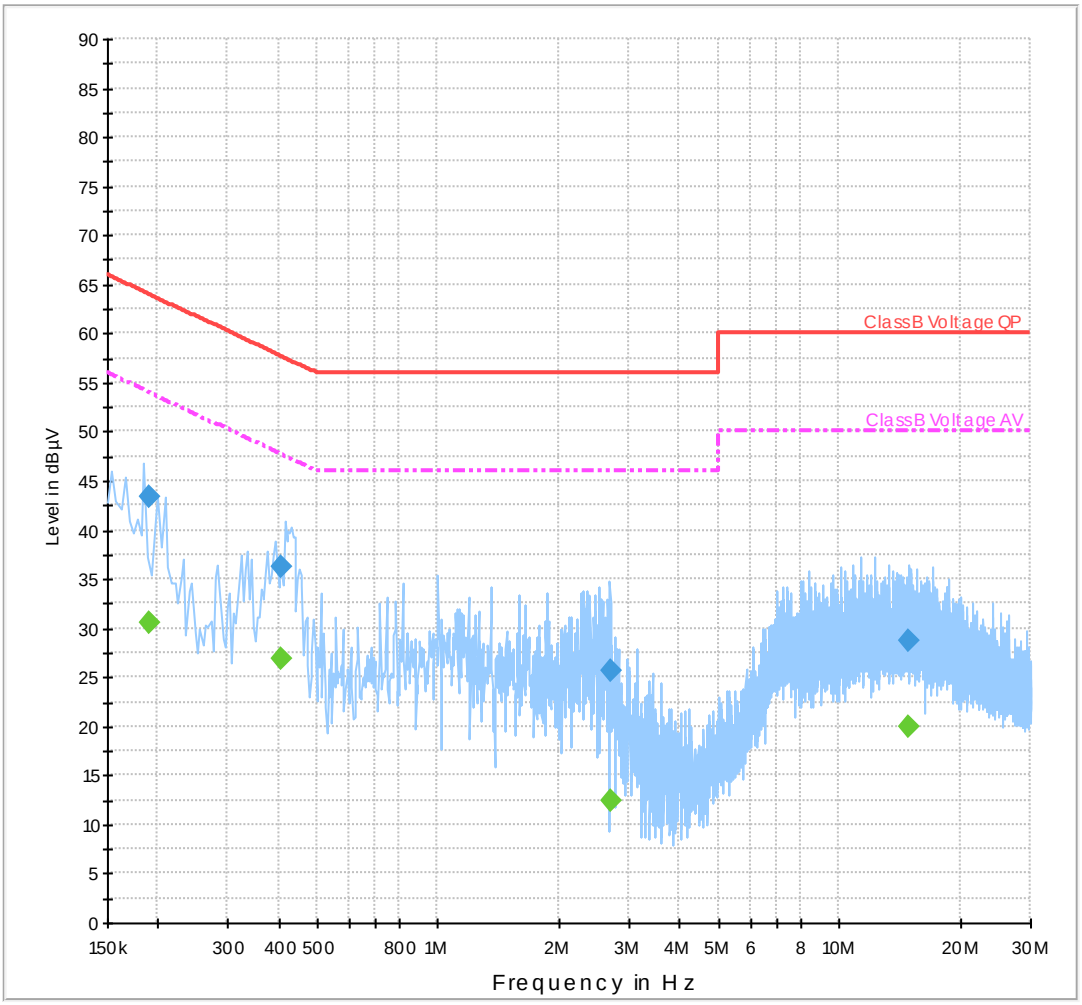
Diagram No. 1.04

	Date: 08.05.2013 Page 1 of 3
Test Description:	Ref.-Nr. 348, Conducted Voltage Measurement Class B
Testspecification:	EN 55011, EN 55022, FCC 15.107, VCCI TR (see Report for more details)
Version of Testsoftware:	EMC32 V8.52.0
Technical Data:	Please see next page for detailed information
Diagram:	Shows the peak values as a sum of measured ports (N+L1) in maxhold mode
Operator name:	HLa
Report.- Nr.	2-0073-13-2
Operating mode:	GSM 1900 (Ch:661) GPRS
Measured on line:	Mains AC L1 and N

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m),AC/DC adapter(MU12-G120100-A1)
Power supply:	12 V DC

01_Class B_Voltage_PK_QPAV_N_L1



Date: 08.05.2013 Page 2 of 2

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.191656	43.4	15000.0	9.000	GN	L1	0.1	20.6	64.0
0.407125	36.3	15000.0	9.000	GN	L1	0.1	21.4	57.7
2.692750	25.7	15000.0	9.000	GN	N	0.3	30.3	56.0
14.965719	28.8	15000.0	9.000	GN	N	0.7	31.2	60.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.191656	30.5	15000.0	9.000	GN	L1	0.1	23.5	54.0
0.407125	26.9	15000.0	9.000	GN	L1	0.1	20.8	47.7
2.692750	12.3	15000.0	9.000	GN	N	0.3	33.7	46.0
14.965719	20.0	15000.0	9.000	GN	N	0.7	30.0	50.0

1.1.5. FDD V + GPS – RX Mode

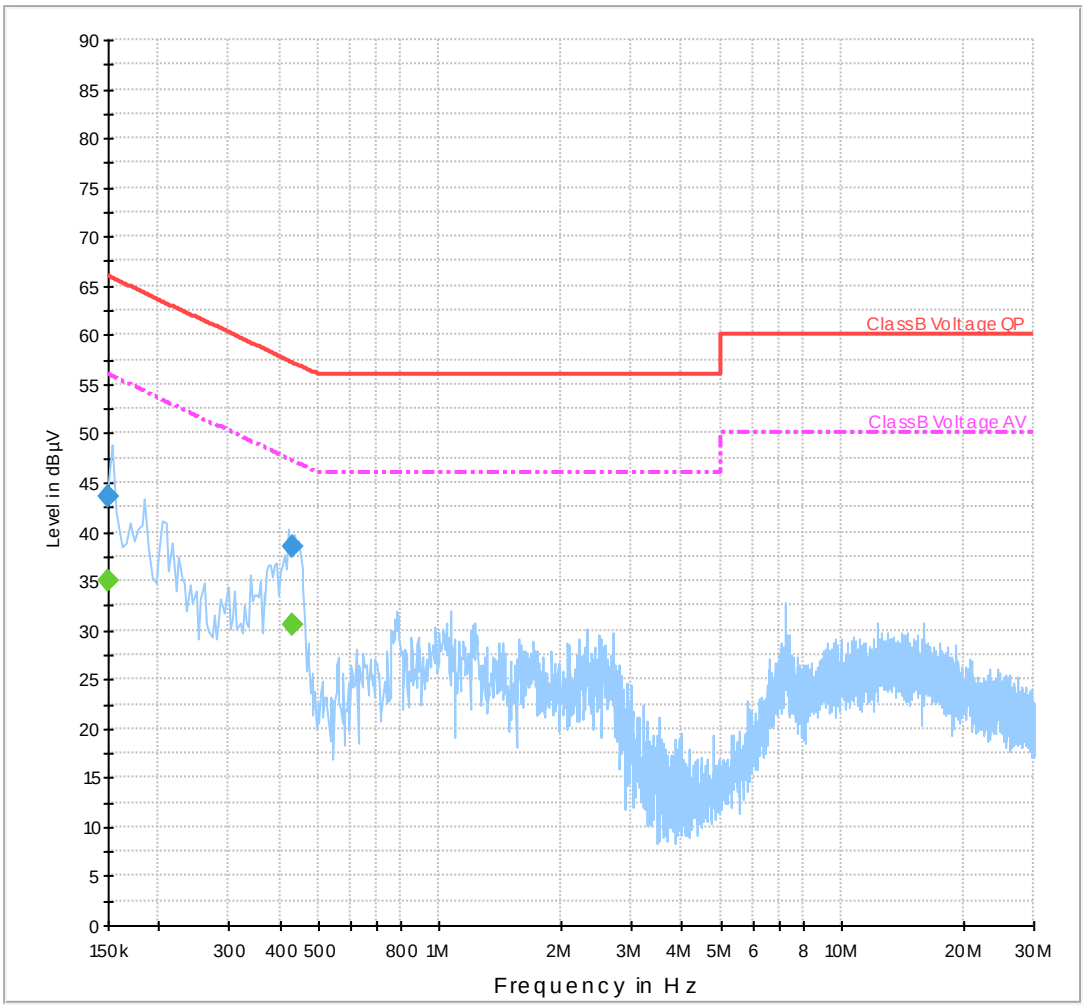
Diagram No. 1.05

	Date: 08.05.2013 Page 1 of 2
Test Description:	Ref.-Nr. 348, Conducted Voltage Measurement Class B
Testspecification:	EN 55011, EN 55022, FCC 15.107, VCCI TR (see Report for more details)
Version of Testsoftware:	EMC32 V8.52.0
Technical Data:	Please see next page for detailed information
Diagram:	Shows the peak values as a sum of measured ports (N+L1) in maxhold mode
Operator name:	HLa
Report.- Nr.	2-0073-13-2
Operating mode:	FDD 5 (Ch:4182) IDLE+ GPS
Measured on line:	Mains AC L1 and N

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m),AC/DC adapter(MU12-G120100-A1), GPS Antenna
Power supply:	12 V DC

01_Class B_Voltage_PK_QPAV_N_L1



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr.	Margin (dB)	Limit (dBµV)
0.150000	43.5	15000.0	0.200	GND	N	0.1	22.5	66.0
0.433031	38.5	15000.0	9.000	GND	L1	0.1	18.7	57.2

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr.	Margin (dB)	Limit (dBµV)
0.150000	35.0	15000.0	9.000	GND	N	0.1	21.0	56.0
0.433031	30.6	15000.0	9.000	GND	L1	0.1	16.6	47.2

1.1.5.1. FDD V – TCH Mode

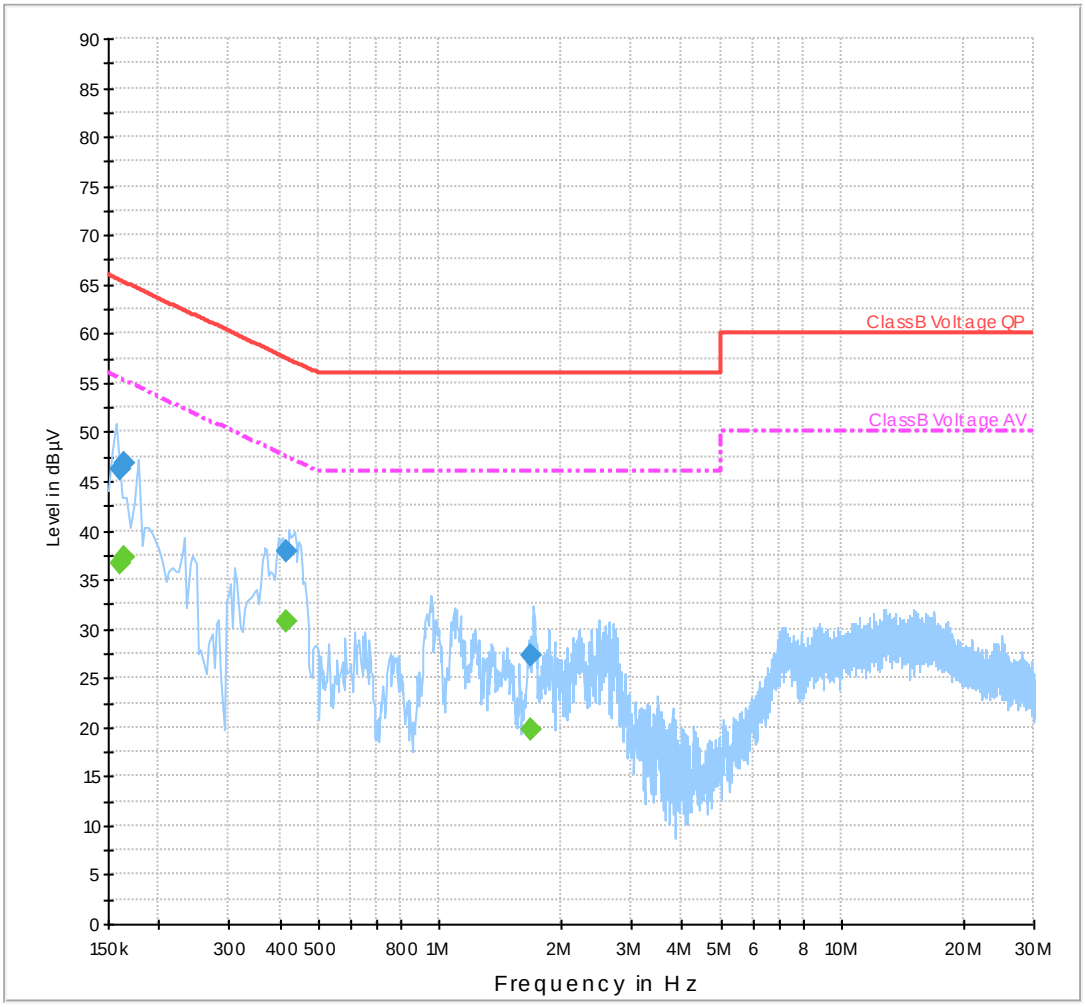
Diagram No. 1.06

	Date: 08.05.2013 Page 1 of 3
Test Description:	Ref.-Nr. 348, Conducted Voltage Measurement Class B
Testspecification:	EN 55011, EN 55022, FCC 15.107, VCCI TR (see Report for more details)
Version of Testsoftware:	EMC32 V8.52.0
Technical Data:	Please see next page for detailed information
Diagram:	Shows the peak values as a sum of measured ports (N+L1) in maxhold mode
Operator name:	HLa
Report.- Nr.	2-0073-13-2
Operating mode:	FDD 5 (Ch:4182)
Measured on line:	Mains AC L1 and N

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m),AC/DC adapter(MU12-G120100-A1)
Power supply:	12 V DC

01_Class B_Voltage_PK_QPAV_N_L1



Date: 08.05.2013 Page 2 of 2

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.160000	46.3	15000.0	9.000	GN	L1	0.1	19.2	65.5
0.163844	46.8	15000.0	9.000	GN	L1	0.1	18.4	65.3
0.417750	37.9	15000.0	9.000	GN	N	0.1	19.6	57.5
1.696188	27.3	15000.0	9.000	GN	N	0.3	28.7	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.160000	36.7	15000.0	9.000	GN	L1	0.1	18.8	55.5
0.163844	37.2	15000.0	9.000	GN	L1	0.1	18.0	55.3
0.417750	30.7	15000.0	9.000	GN	N	0.1	16.8	47.5
1.696188	19.9	15000.0	9.000	GN	N	0.3	26.2	46.0

1.2. Radiated Spurious Transmission below 30 MHz

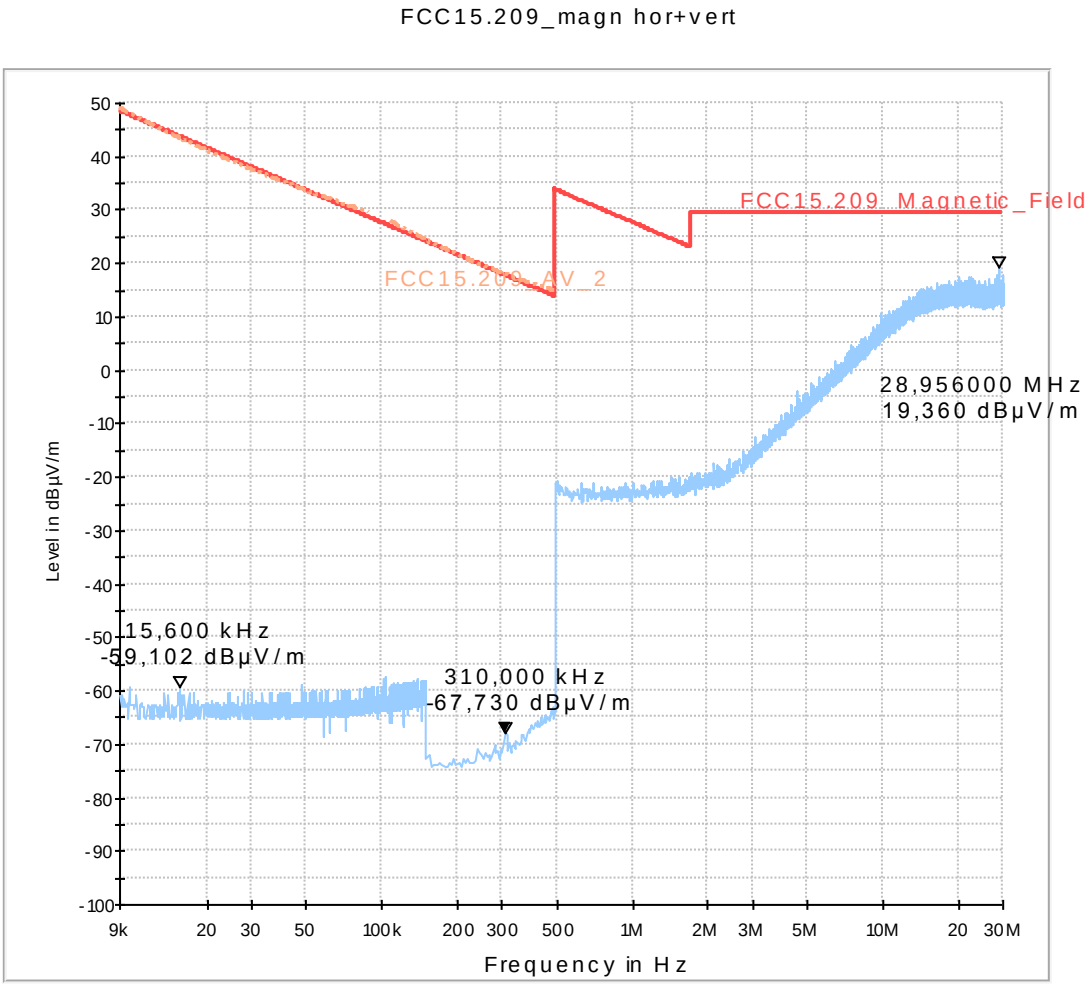
1.2.1. GSM 850 – TCH Mode

Diagram No. 2.01_GPRS_Ch192

	Date: 26.04.2013 Page 1 of 1
Test description:	Magnetic Fieldstrength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	v8.51.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	--
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas/Fte
Operating conditions:	TX-on, Ch 192, GPRS (wc: one UL slot used)
Comment 2:	2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC



1.2.2. PCS 1900 – TCH Mode

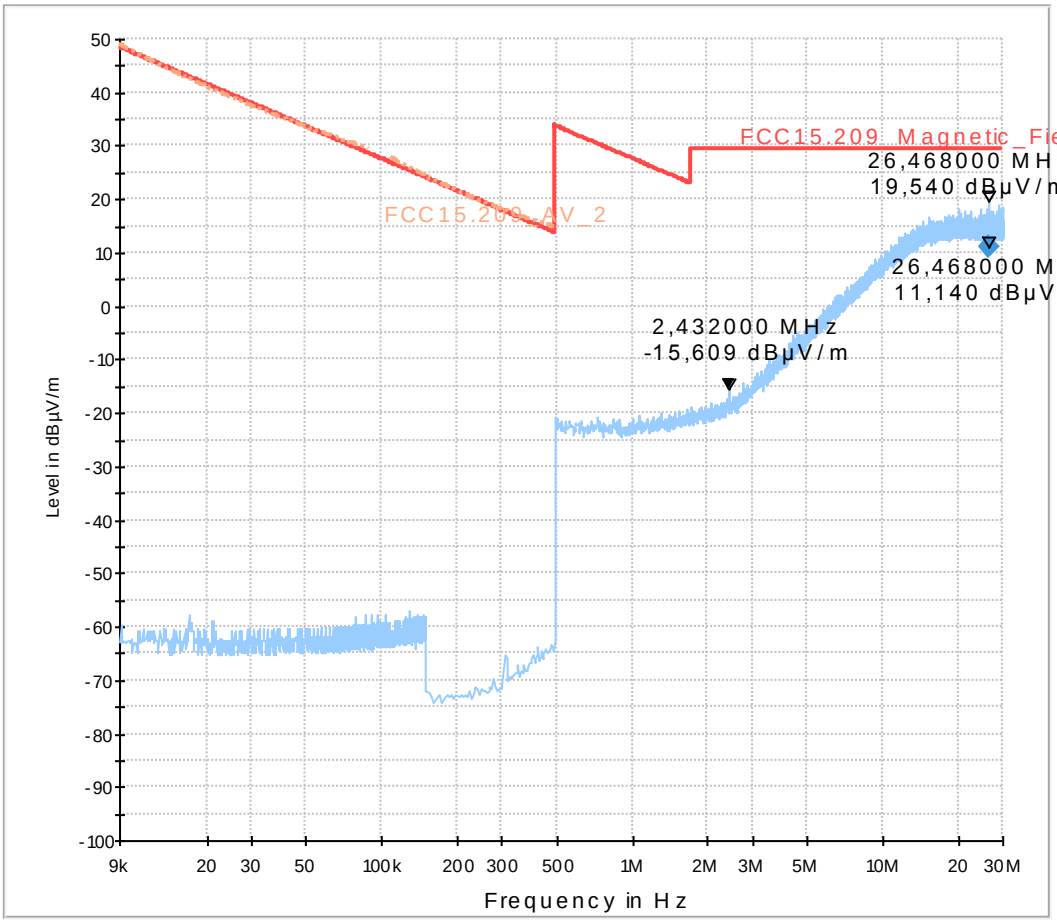
Diagram No. 2.03_PCS1900_GPRS_Ch661

	Date: 26.04.2013 Page 1 of 1
Test description:	Magnetic Fieldstrength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	v8.51.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	--
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas/Fte
Operating conditions:	TX-on, PCS1900 band, Ch 661, GPRS (one UL slot used)
Comment 2:	2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC

FCC15.209_magn hor+vert



1.2.3. UMTS FDD V – TCH Mode

Diagram No. 2.03_FDD_BandV

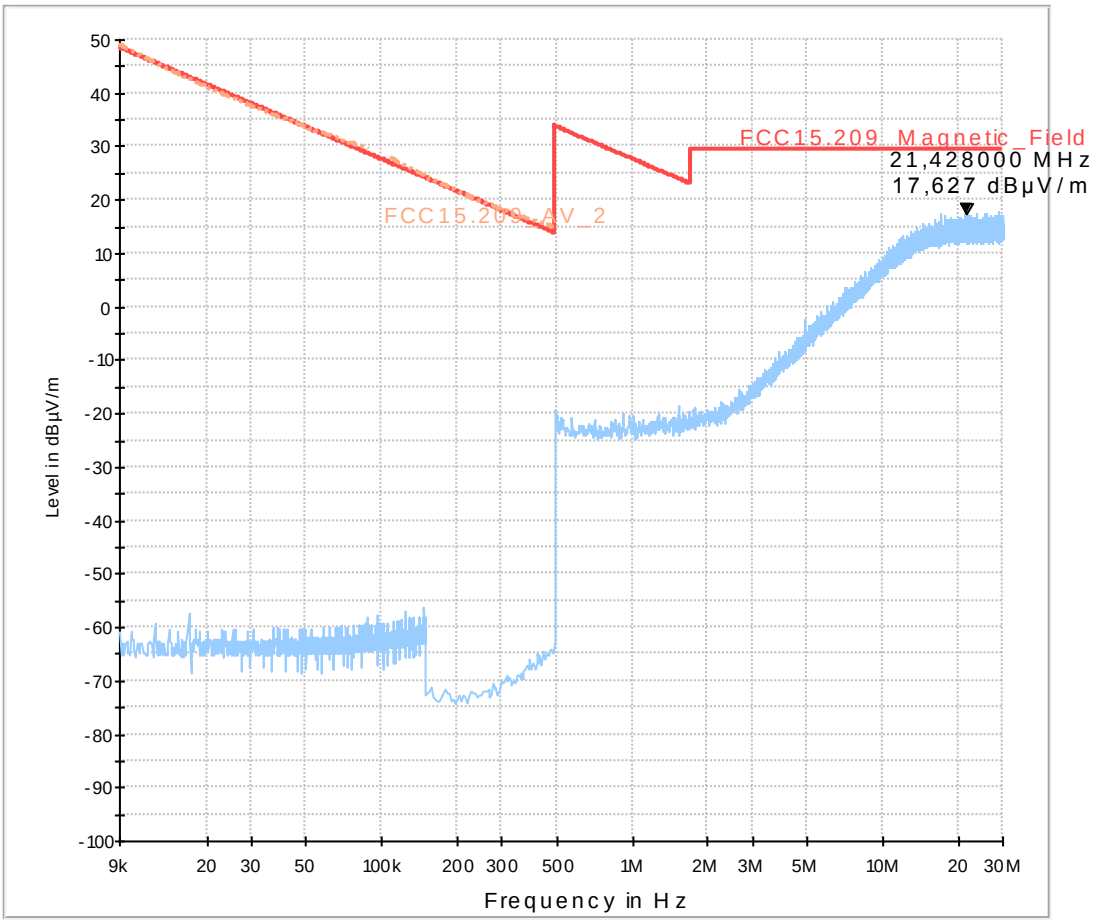
Date: 26.04.2013 Page 1 of 1

Test description:	Magnetic Fieldstrength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	v8.51.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	--
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas/Fte
Operating conditions:	TX-on, FDD, Band V (HSDPA mode), Ch 4182
Comment 2:	2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC

FCC15.209_magn hor+vert



1.3. Receiver Radiated Spurious Emission – 30 MHz to 1 GHz

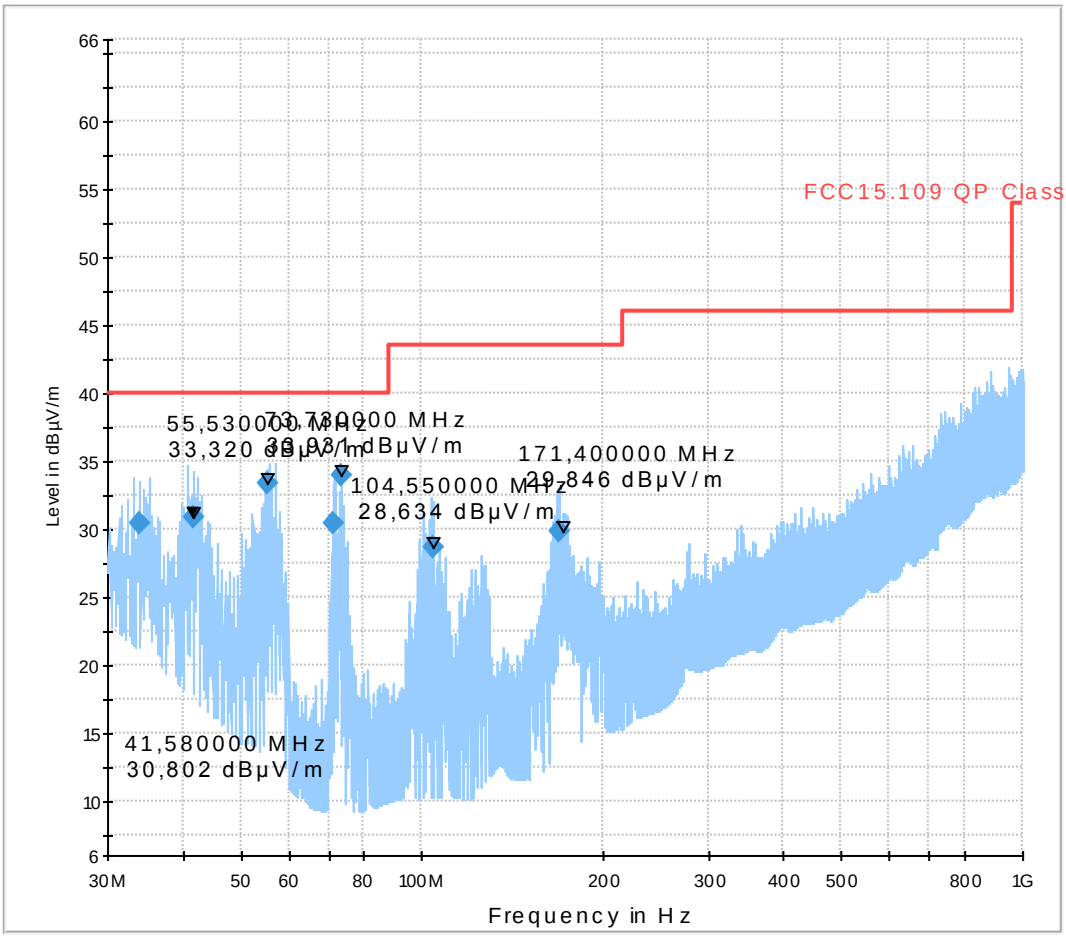
Diagram No. 3.01

	Date: 08.05.2013 Page 1 of 2
Test description:	Electric Fieldstrength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance
Version of Testsoftware:	v8.51.0
Distance correction:	not used
Technical Data:	--
Used filter:	TP NLP-1200
Test specification:	FCC15.109, class B; RSS-Gen.: Issue 3
Operator:	Tas
Operating conditions:	GPS RX-ON
Measured sides of EUT:	front, right, rear, left
Comment 1:	2-0073-13-2b

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GPS Antenna +cable (3m)
Power supply:	12 V DC

05_FCC15.109_hor+vert_kipp



Page 2 of 2

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)
33.870000	30.4	1000.0	120.000	182.0	H	8.0	0.0	20.1	9.6
41.580000	30.8	1000.0	120.000	100.0	V	4.0	90.0	16.9	9.2
55.530000	33.3	1000.0	120.000	100.0	V	139.0	90.0	11.6	6.7
71.530000	30.4	1000.0	120.000	100.0	V	52.0	90.0	7.9	9.6
73.730000	33.9	1000.0	120.000	129.0	V	110.0	0.0	7.9	6.1
104.550000	28.6	1000.0	120.000	100.0	V	210.0	0.0	8.5	14.9
169.640000	29.8	1000.0	120.000	100.0	V	90.0	0.0	10.6	13.7

(continuation of the "Final Result 1" table from column 10 ...)

Frequency (MHz)	Limit (dBµV/m
33.870000	40.0
41.580000	40.0
55.530000	40.0
71.530000	40.0
73.730000	40.0
104.550000	43.5
169.640000	43.5

4.01

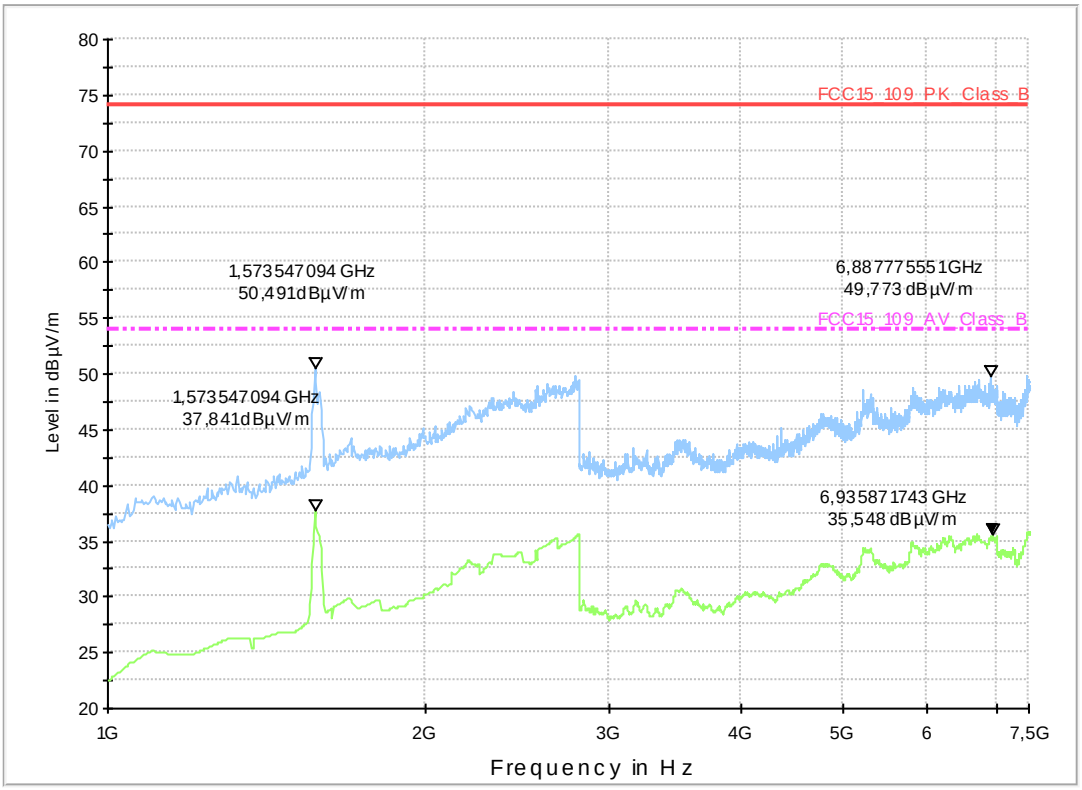
Common Information

Test Description:	Radiated Filed Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 15.109
Section	15.109
Operating Mode:	GPS RX-ON
Equipment Class:	Class B
Environmental Conditions:	Humidity: 46%rH; Temperature: 22°C
Operator:	Tas/FTe
Comment:	2-0073-13-2b RX-Frequency exclusion at 1,5 GHz

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GPS Antenna + cable (1m)
Power supply:	12 V DC

030445_FCC_Part15.109_Unint_Rad_Class_B_1G-20G_FSEK



1.4. Radiated Spurious Transmission above 30 MHz

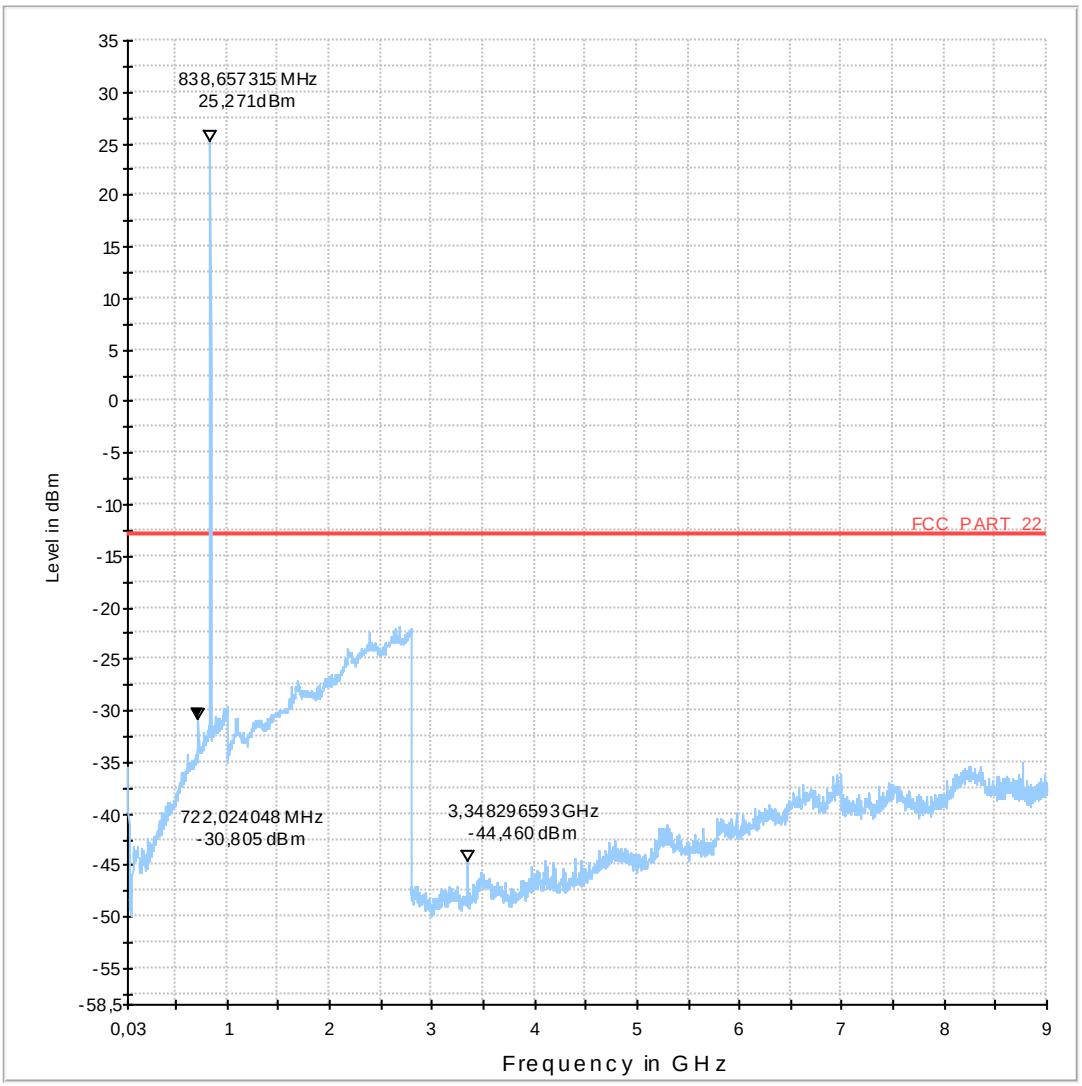
8.05_Ch192_GPRS

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 ch. 192(UL = 837.0MHz)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 33%rH; Temperature: 22°C
Operator:	Tas
	2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC



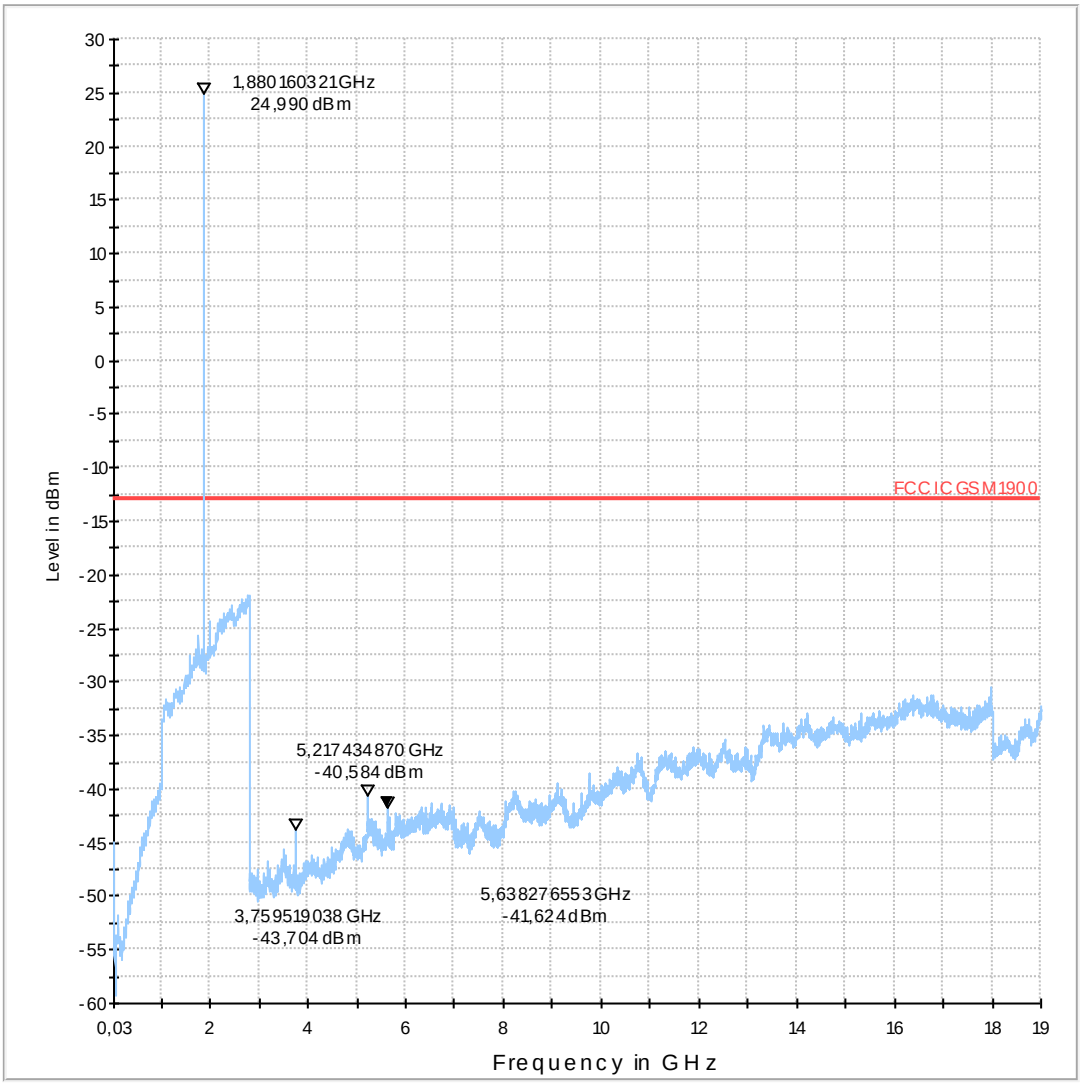
8.14_Ch661_GPRS

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, Data
Operating Mode:	MS allocated channel 661 ; Data, PCL0 (+30dBm), One Slot on CS-1
Exclusionband:	1850- 1910 MHz
Environmental Conditions:	Humidity: 33%rH; Temperature: 22°C
Operator:	Tas
	2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC



8.10_FDDV_4132_HDSPA

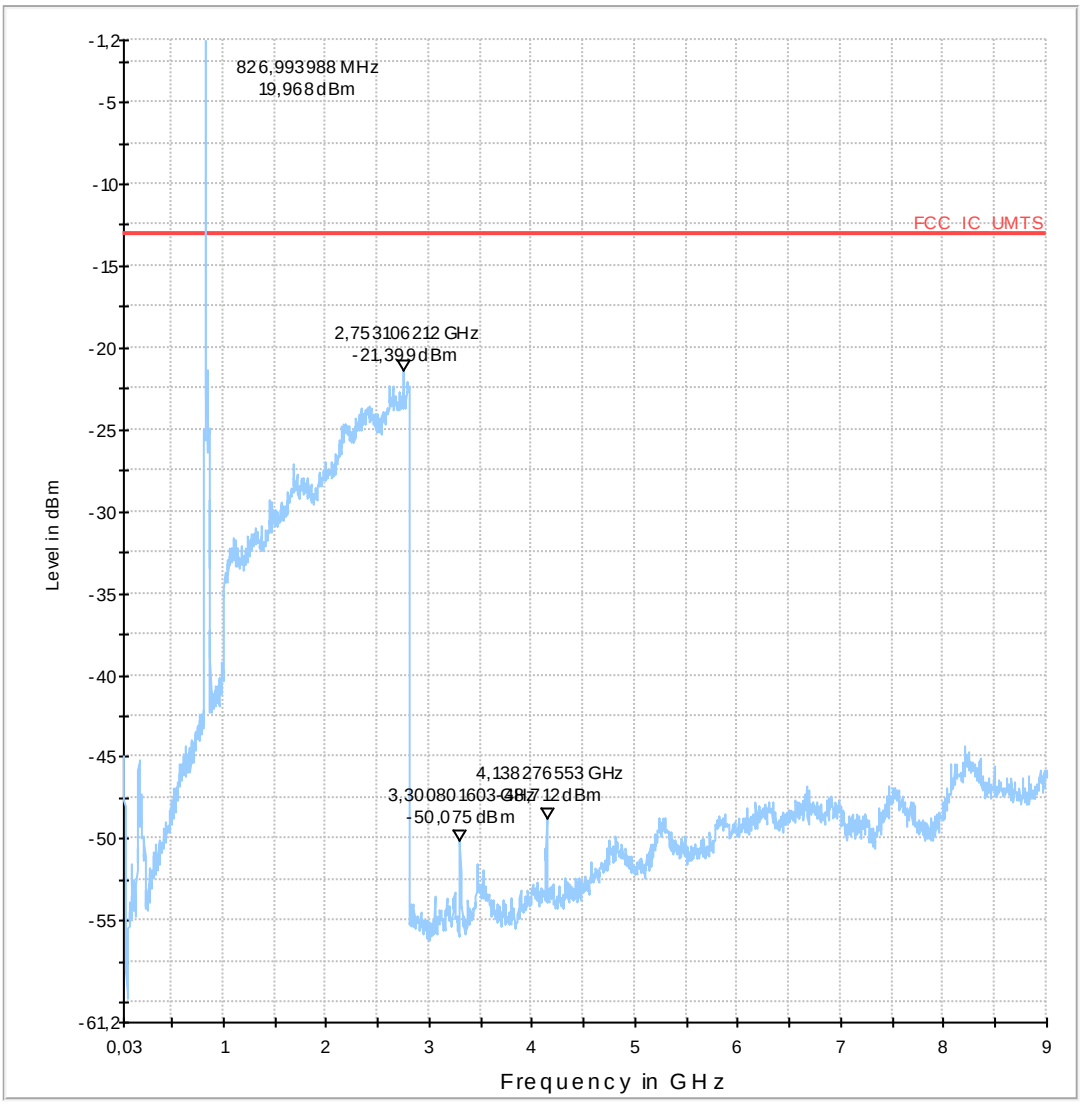
Common Information

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, HSDPA (exclusion freq. 824-849 MHz)
Environmental Conditions:	Humidity: 33%rH; Temperature: 21°C
Operator:	FTe 2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC

030411_FCC_Part22_UMTS-FDDV_TX_all_channels_30M-12G



1.5. Band-Edge Radiated – GSM G850

1.5.1. GPRS mode

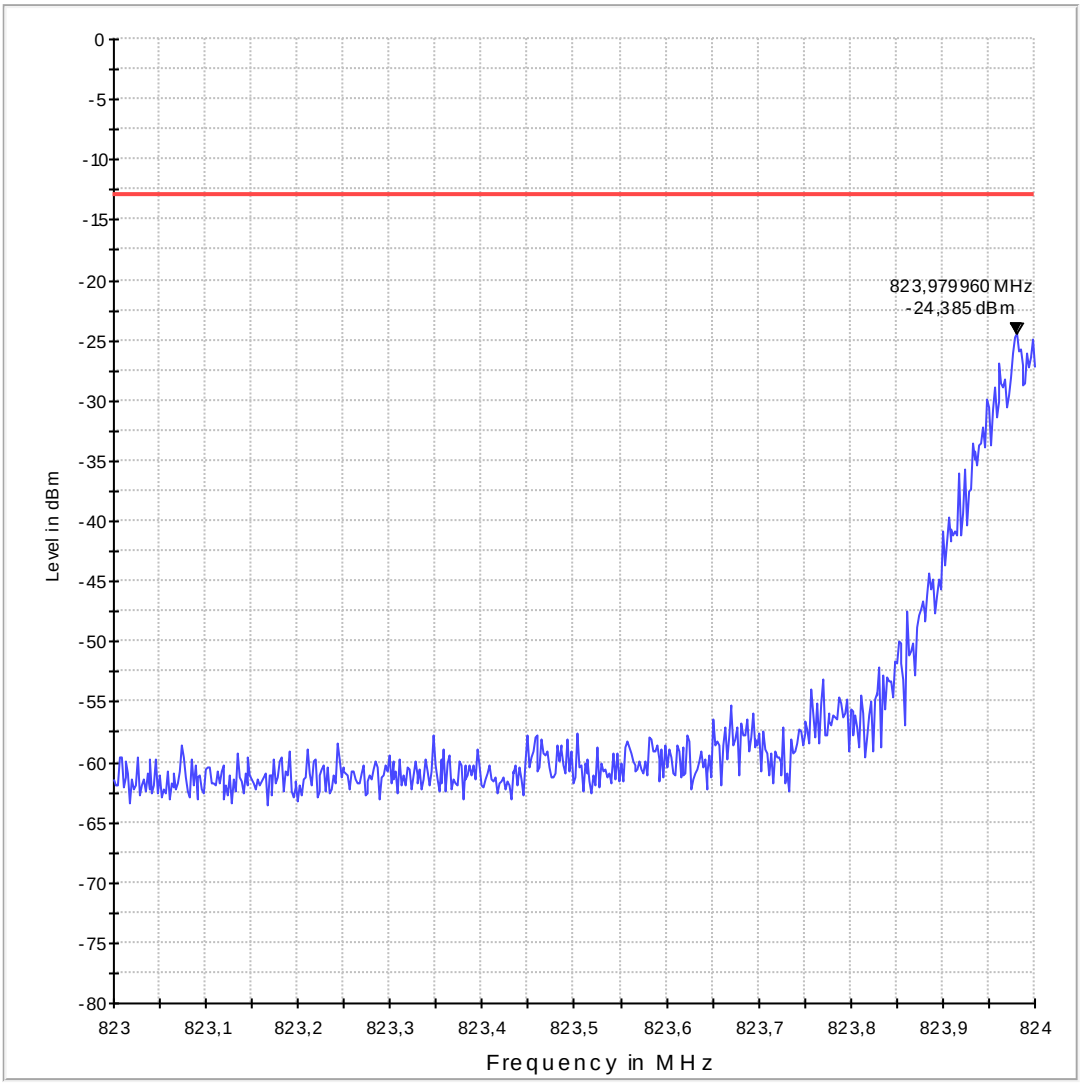
9.03_Ch128_GPRS

Common Information

Test Description:	Band-Edge Radiated Spurious Emissions G850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Comm. Link:	GSM850, GPRS
Operating Mode:	MS allocated channel 128 (UL = 824.2MHz)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 33%rH; Temperature: 22°C
Operator:	Tas
	2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC



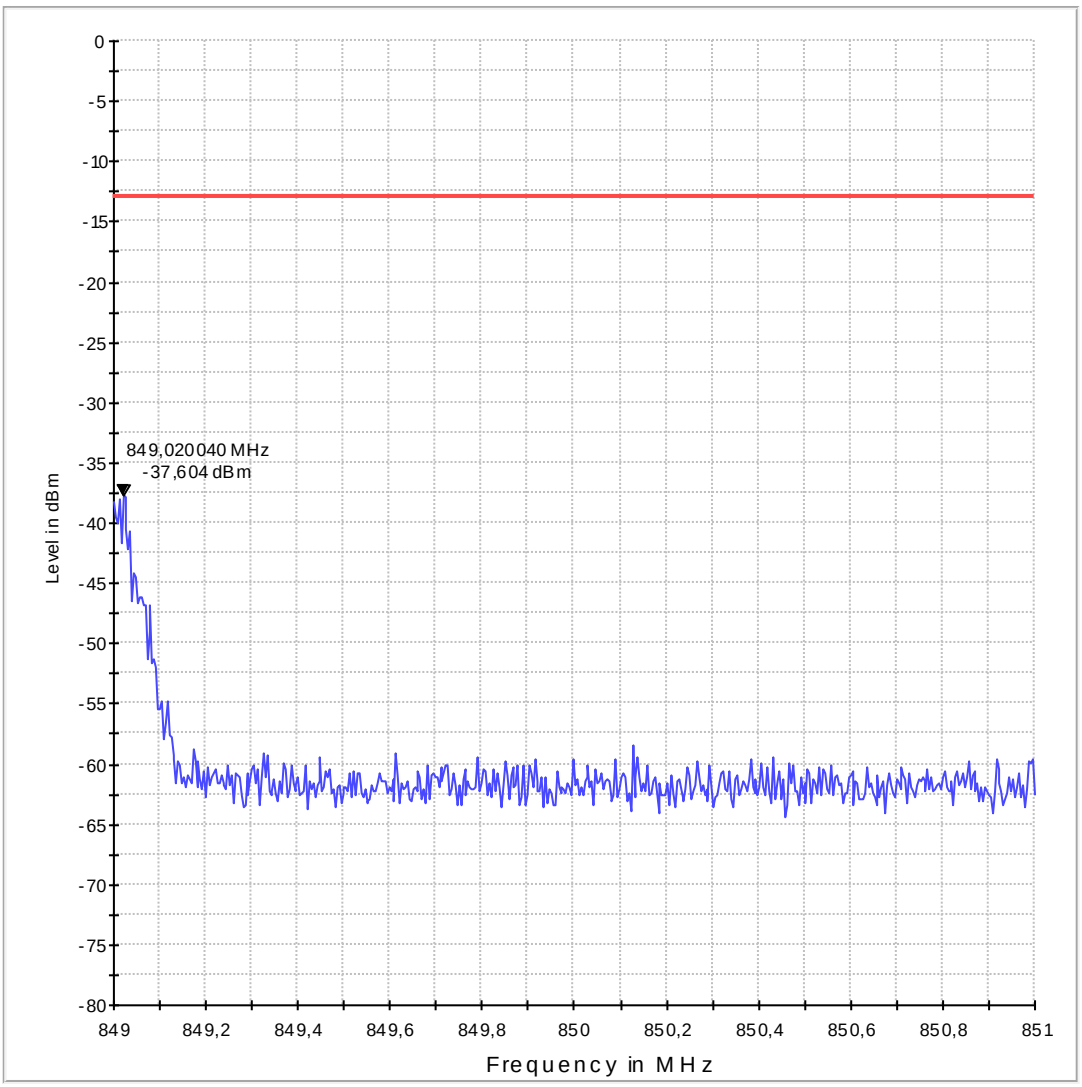
9.04_Ch251_GPRS

Common Information

Test Description:	Band-Edge Radiated Spurious Emissions G850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Comm. Link:	GSM850, GPRS
Operating Mode:	MS allocated channel 251 (UL = 848.8MHz)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 33%rH; Temperature: 22°C
Operator:	Tas
	2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC



1.5.2. EDGE mode

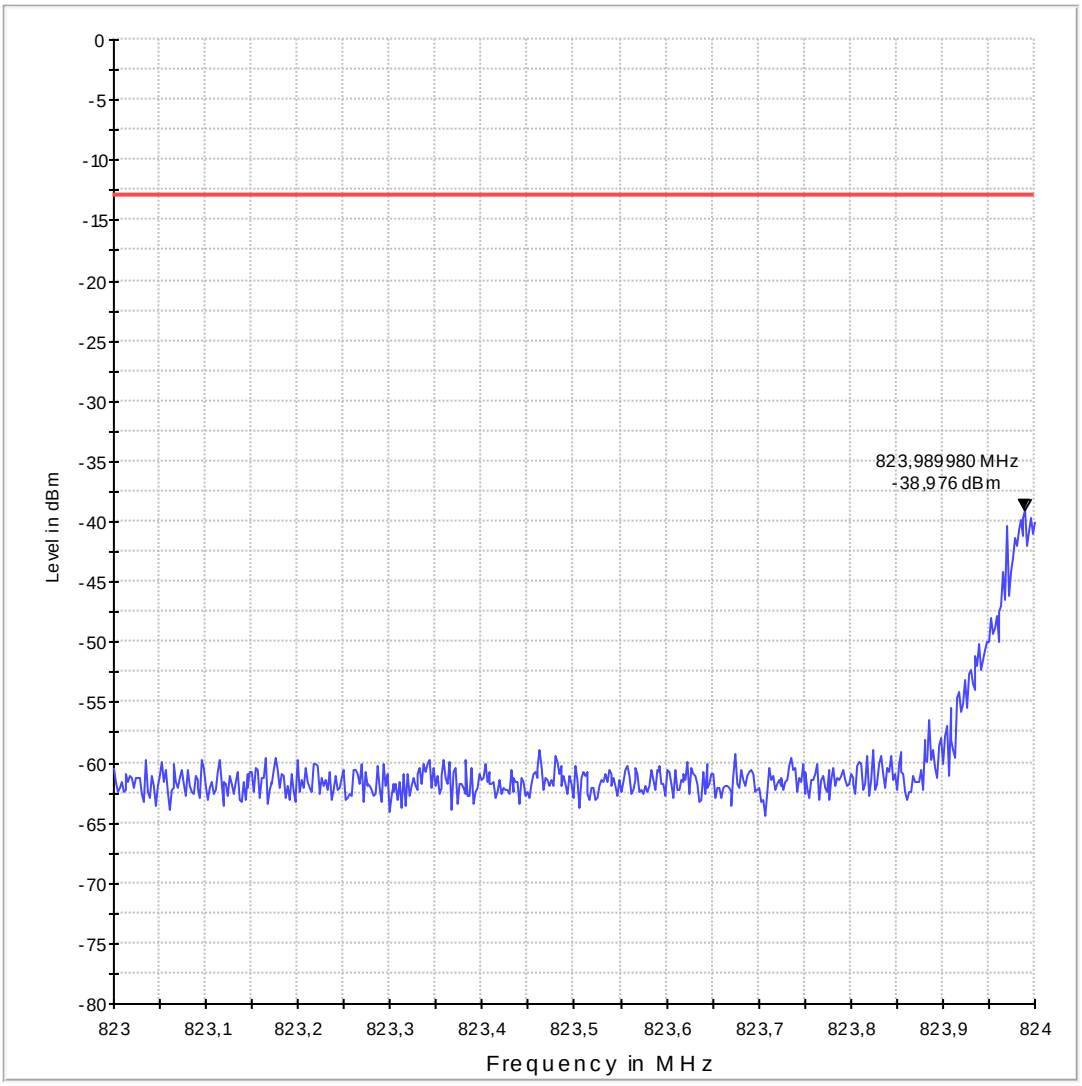
9.05_Ch128_EDGE

Common Information

Test Description:	Band-Edge Radiated Spurious Emissions G850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Comm. Link:	GSM850, EDGE
Operating Mode:	MS allocated channel 128 (UL = 824.2MHz)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 33%rH; Temperature: 22°C
Operator:	Tas
	2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC



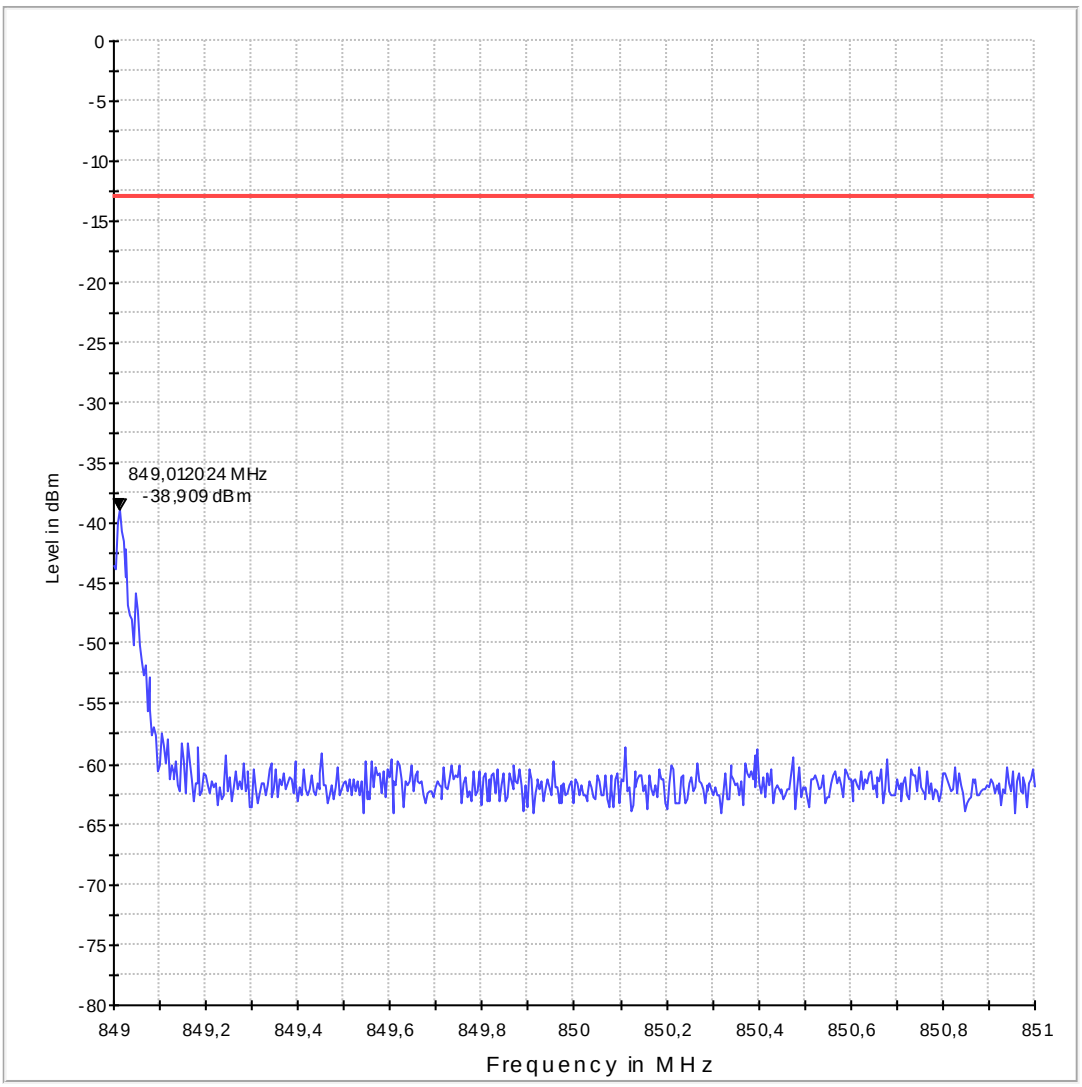
9.06_Ch251_EDGE

Common Information

Test Description:	Band-Edge Radiated Spurious Emissions G850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Comm. Link:	GSM850, EDGE
Operating Mode:	MS allocated channel 251 (UL = 848.8MHz)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 33%rH; Temperature: 22°C
Operator:	Tas
	2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC



1.6. Band-Edge Radiated – GSM PCS1900

1.6.1. GPRS mode

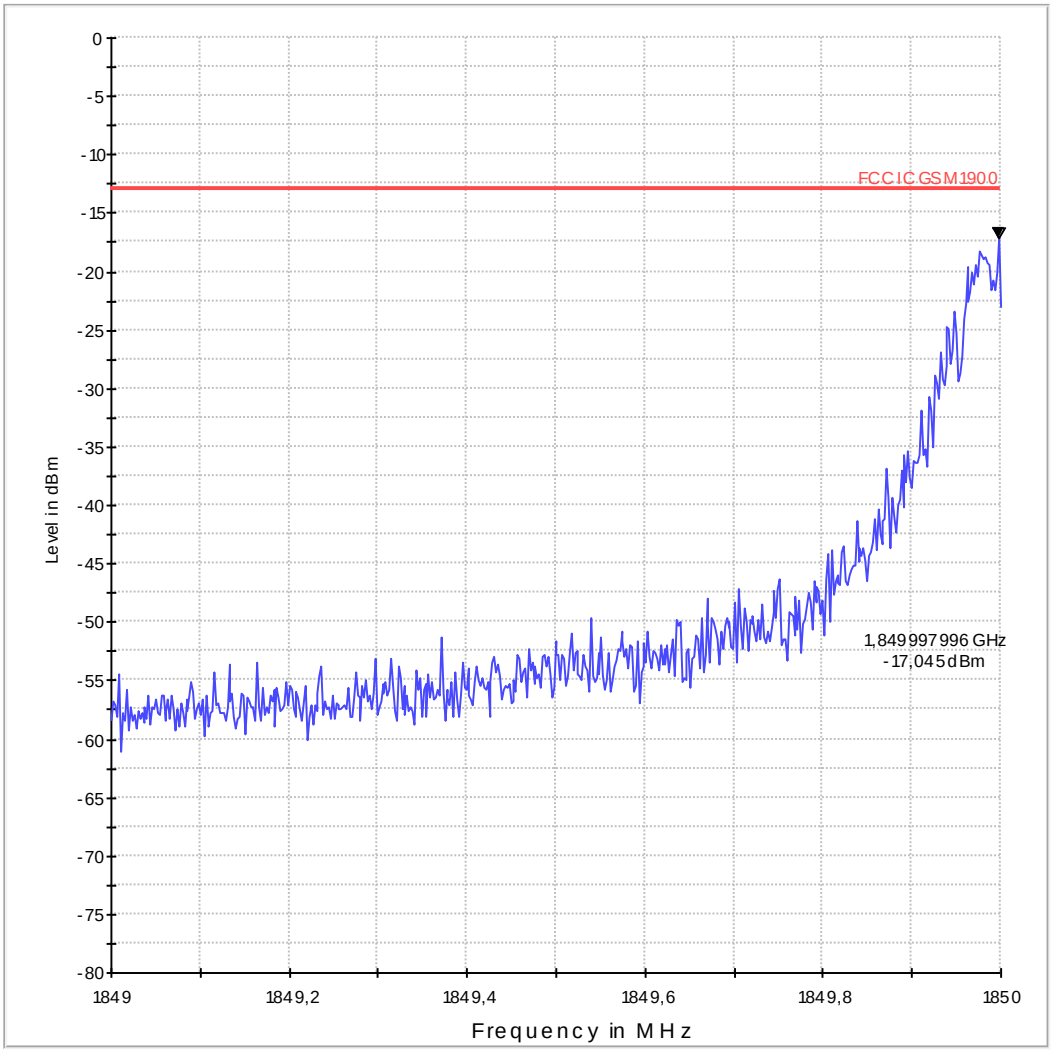
9.09_Ch512_GPRS

Common Information

Test Description:	Band-Edge Radiated Spurious Emissions PCS1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24.238
Comm. Link:	GSM1900, Data GPRS
Operating Mode:	MS allocated channel 512 ; Data, PCL0 (+30dBm), One Slot on CS-1
Exclusionband:	1850- 1910MHz
Environmental Conditions:	Humidity: 33%rH; Temperature: 22°C
Operator:	Tas
	2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC



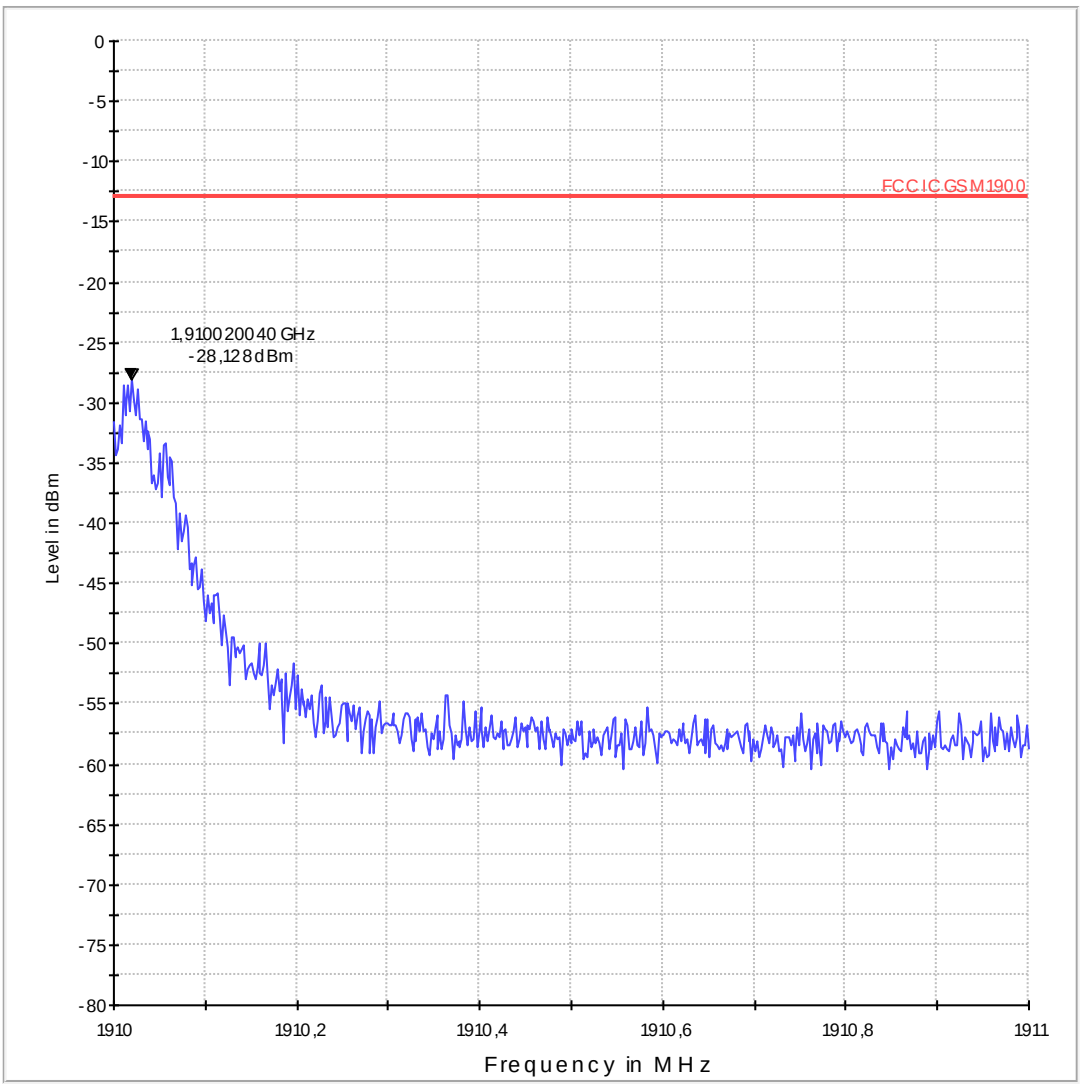
9.10_Ch810_GPRS

Common Information

Test Description:	Band-Edge Radiated Spurious Emissions PCS1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24.238
Comm. Link:	GSM1900, Data
Operating Mode:	MS allocated channel 810 ; Data, PCL0 (+30dBm), One Slot on CS-1
Exclusionband:	1850- 1910MHz
Environmental Conditions:	Humidity: 33%rH; Temperature: 22°C
Operator:	Tas
	2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC



1.6.2. EDGE mode

9.11_Ch512_EGPRS

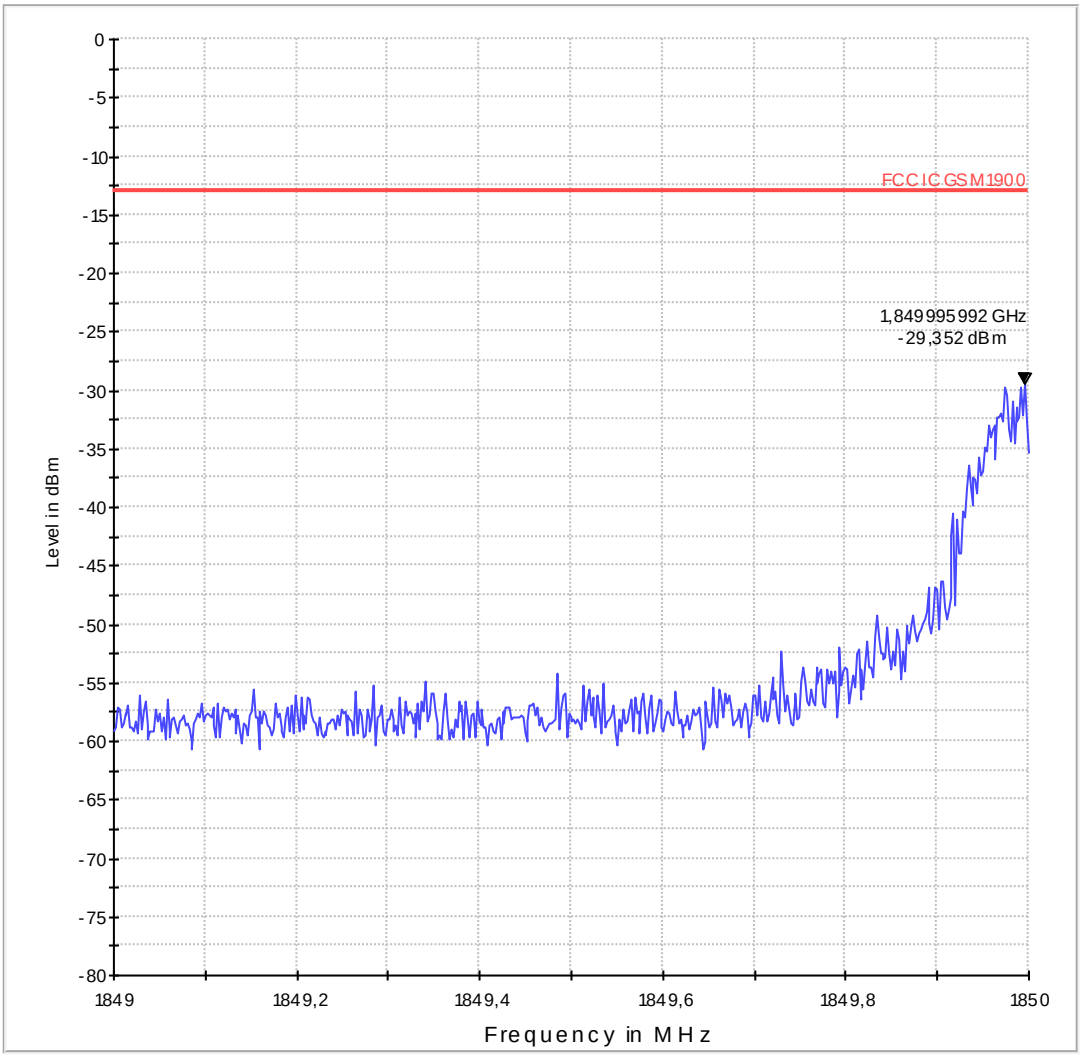
Common Information

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, EGPRS
Exclusionband:	1850- 1910MHz
Environmental Conditions:	Humidity: 33%rH; Temperature: 22°C
Operator:	Tas/FTe
	2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC

010405_FCC_Part24_GSM1900_TX_channel_512_band_edge



9.12_Ch810_EGPRS

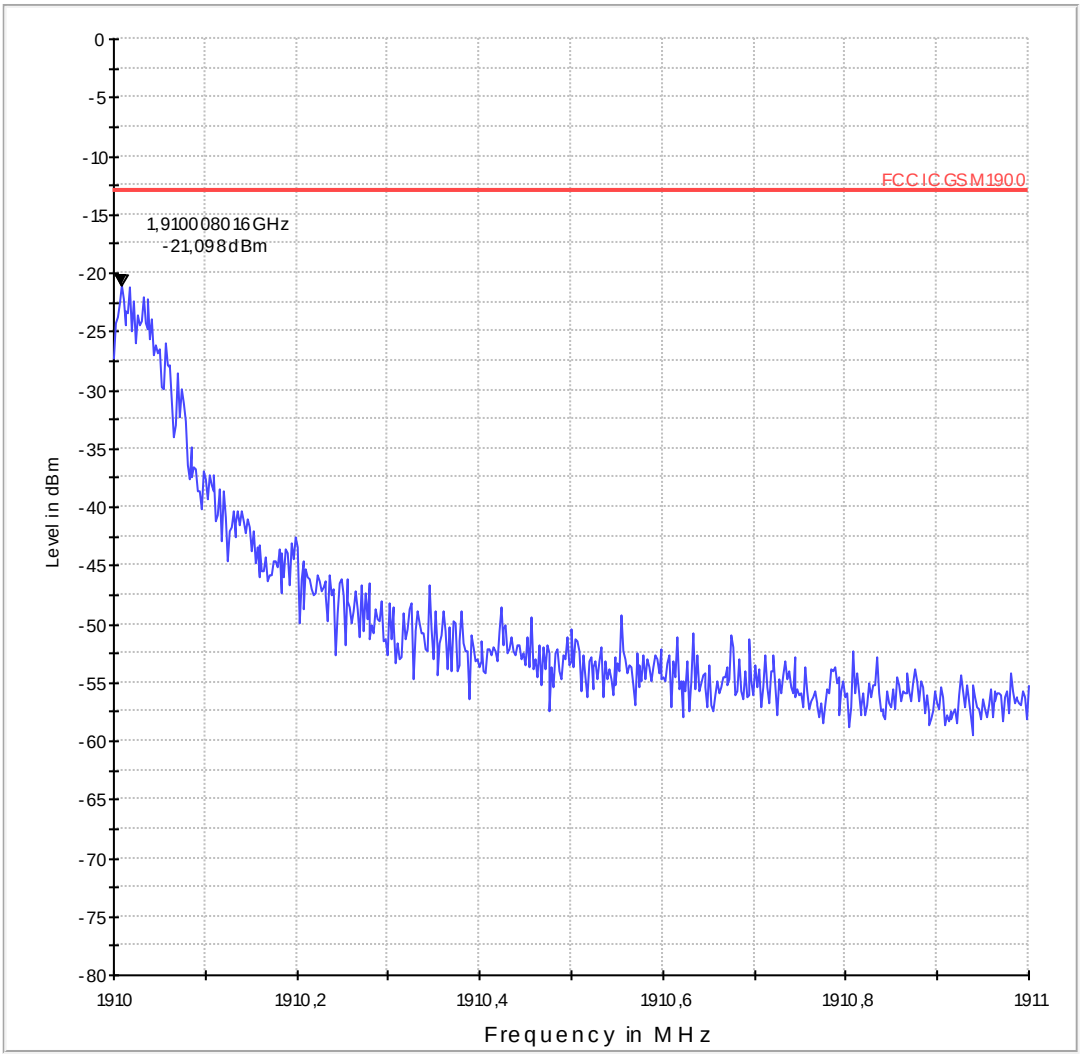
Common Information

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 810, EGPRS
Exclusionband:	1850- 1910MHz
Environmental Conditions:	Humidity: 33%rH; Temperature: 22°C
Operator:	FTe
	2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC

010406_FCC_Part24_GSM1900_TX_channel_810_band_edge



1.7. Band-Edge Radiated – FDD V

1.7.1. HSDPA mode

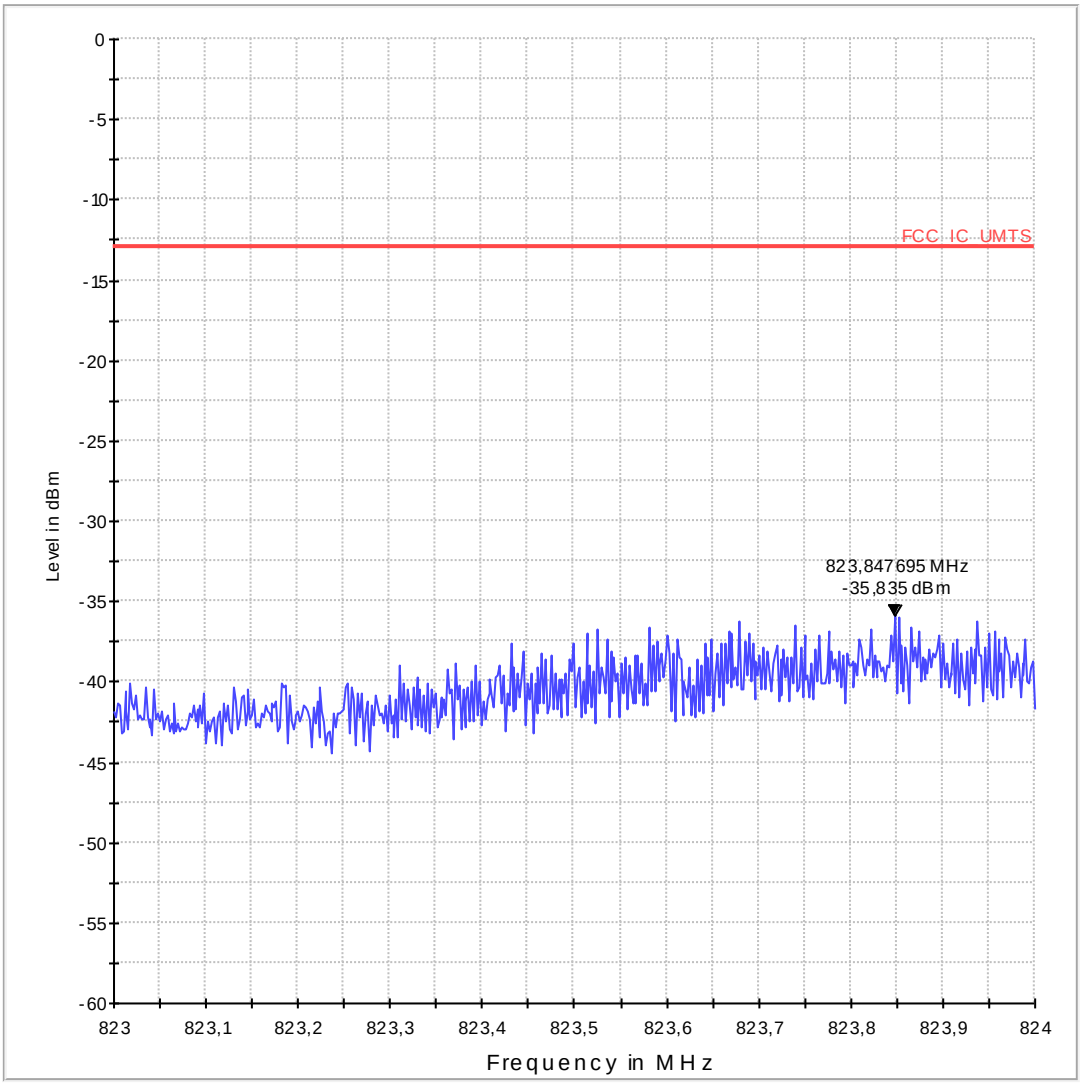
9.13_FDDV_4132_HSDPA

Common Information

Test Description:	Band-Edge Radiated Spurious Emissions FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Comm. Link:	FDDV, PS domain
Operating Mode:	MS allocated channel low 4132, HSDPA
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 33%rH; Temperature: 22°C
Operator:	Tas/FTe
	2-0073-13-2a

EUT Information

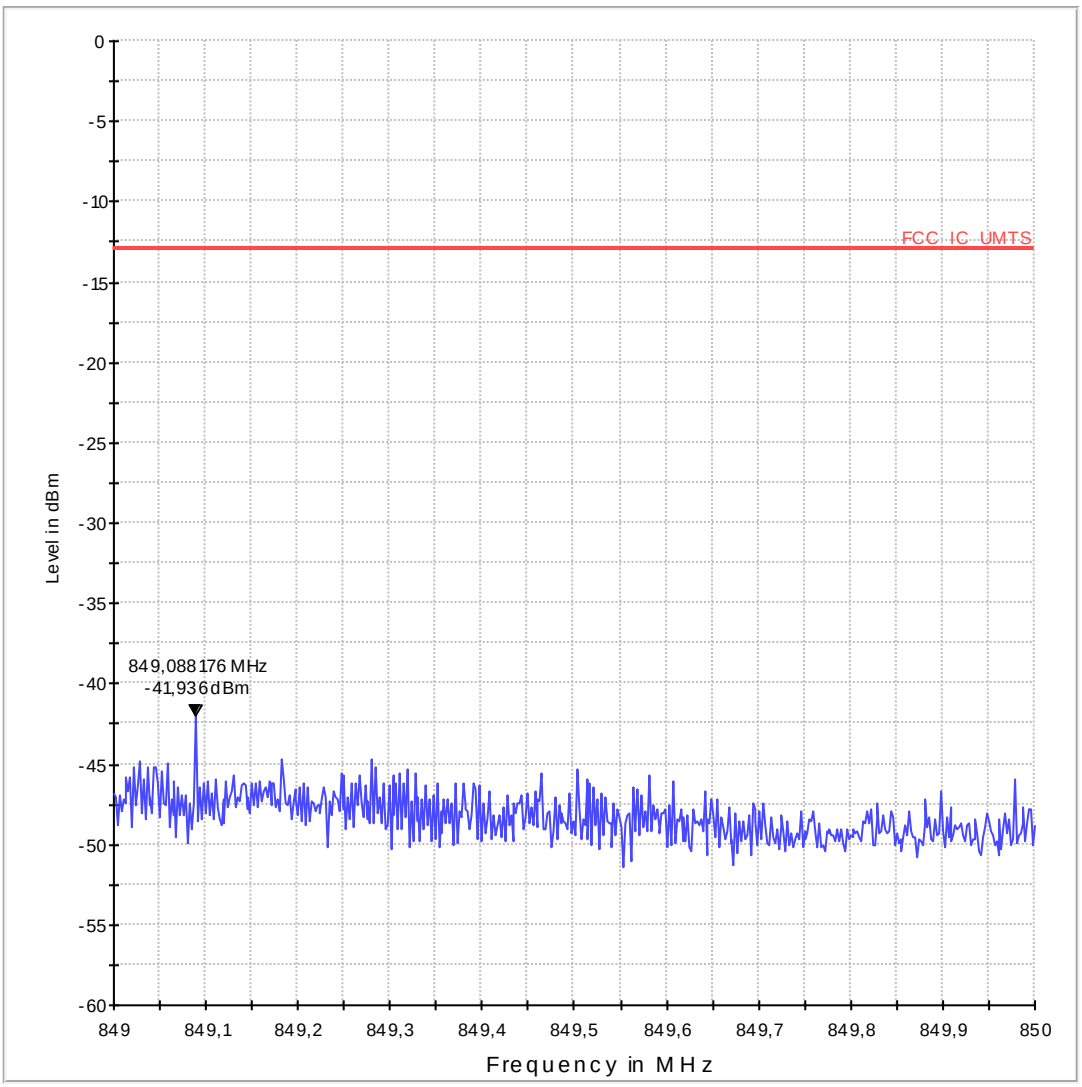
EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC



9.14_FDDV_4233_HSDPA

Common Information

Test Description:	Radiated Spurious Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Comm. Link:	GSM850, Voice/EDGE
Operating Mode:	MS allocated channel high 4233, HSDPA
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 33%rH; Temperature: 22°C
Operator:	Tas/FTe
	2-0073-13-2a

EUT Information

EUT Name:	Data RF Module SL 8084T
Manufacturer:	NCXX Inc.
Hardware Rev:	--
Software Rev:	--
IMEI:	352562-05-003160-0
Connected interfaces:	Serial cable (2m), USB cable (1m), GSM/UMTS Antenna cable (1m)
Power supply:	12 V DC