



FCC RADIO TEST REPORT

FCC ID : 2AOAJ-2679
Equipment : Electronic Display Device
Model Name : S8IN4N
Applicant : 360 Engine Burns LLC
400 West Capitol Avenue, Suite 1700 Little Rock,
Arkansas, 72201
Standard : 47 CFR Part 2, 22(H), 24(E)

The testing was completed on Feb. 01, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG8O0112-01A	01	Initial issue of report	Feb. 19, 2019
FG8O0112-01A	02	Add antenna 2 test data.	Apr. 26, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
3.2	§2.1046	Conducted Output Power	Pass
	§22.913 (a)(2)	Effective Radiated Power	
	§24.232 (c)	Equivalent Isotropic Radiated Power	
3.3	§24.232 (d)	Peak-to-Average Ratio	Pass
3.4	§2.1049 §22.917 (b) §24.238 (b)	Occupied Bandwidth	Pass
3.5	§2.1051 §22.917 (a) §24.238 (a)	Band Edge Measurement	Pass
3.6	§2.1051 §22.917 (a) §24.238 (a)	Conducted Emission	Pass
3.7	§2.1055 §22.355	Frequency Stability Temperature & Voltage	Pass
	§2.1055 §24.235		
4.4	§2.1053 §22.917 (a) §24.238 (a)	Field Strength of Spurious Radiation	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Maggie Chiang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Electronic Display Device
Model Name	S8IN4N
FCC ID	2AOAJ-2679
EUT supports Radios application	GPRS/EGPRS/WCDMA/HSPA/LTE WLAN 11b/g/n HT20 Bluetooth BR/EDR/LE

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM/GPRS/EDGE: 850: 824.2 MHz ~ 848.8 MHz 1900: 1850.2 MHz ~ 1909.8MHz WCDMA: Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz
Rx Frequency	GSM/GPRS/EDGE: 850: 869.2 MHz ~ 893.8 MHz 1900: 1930.2 MHz ~ 1989.8 MHz WCDMA: Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz
Maximum Output Power to Antenna	<Ant. 1> GSM/GPRS/EDGE: 850: 31.72 dBm 1900: 28.82 dBm WCDMA: Band V: 22.09 dBm Band II: 22.24 dBm
	<Ant. 2> GSM/GPRS/EDGE: 850: 31.25 dBm 1900: 28.05 dBm WCDMA: Band V: 21.92 dBm Band II: 21.75 dBm

Standards-related Product Specification	
Antenna Type / Gain	Cellular Band: Ant. 1: Fixed Internal Antenna Type with gain 0 dBi Ant. 2: Fixed Internal Antenna Type with gain -0.5 dBi PCS Band: Ant. 1: Fixed Internal Antenna Type with gain 2.5 dBi Ant. 2: Fixed Internal Antenna Type with gain 1.5 dBi
Type of Modulation	GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: BPSK (Uplink) HSDPA: 16QAM (Downlink) HSUPA: QPSK (Uplink)

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

<Ant. 1>

FCC Rule	Frequency Range (MHz)	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	824.2 ~848.8	GSM850 GPRS class 8	GMSK	0.9057	0.0120 ppm	249KGXW
Part 22	824.2 ~848.8	GSM850 EDGE class 8	8PSK	0.2094	0.0084 ppm	251KG7W
Part 22	826.4 ~846.6	WCDMA Band V RMC 12.2Kbps	BPSK	0.0986	0.0021 ppm	4M09F9W
Part 24	1850.2 ~1909.8	GSM1900 GPRS class 8	GMSK	1.3552	0.0043 ppm	246KGXW
Part 24	1850.2 ~1909.8	GSM1900 EDGE class 8	8PSK	0.5433	0.0053 ppm	252KG7W
Part 24	1852.4 ~ 1907.6	WCDMA Band II RMC 12.2Kbps	BPSK	0.2979	0.0167 ppm	4M10F9W

<Ant. 2>

FCC Rule	Frequency Range (MHz)	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	824.2 ~848.8	GSM850 GPRS class 8	GMSK	0.7244	0.0155 ppm	246KGXW
Part 22	824.2 ~848.8	GSM850 EDGE class 8	8PSK	0.1905	0.0072 ppm	247KG7W
Part 22	826.4 ~846.6	WCDMA Band V RMC 12.2Kbps	BPSK	0.0845	0.0155 ppm	4M09F9W
Part 24	1850.2 ~1909.8	GSM1900 GPRS class 8	GMSK	0.9016	0.0064 ppm	247KGXW
Part 24	1850.2 ~1909.8	GSM1900 EDGE class 8	8PSK	0.3936	0.0027 ppm	250KG7W
Part 24	1852.4 ~ 1907.6	WCDMA Band II RMC 12.2Kbps	BPSK	0.2113	0.0043 ppm	4M09F9W

1.5 Testing Location

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	George Chen
Temperature	21~24°C
Relative Humidity	51~55%

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH10-HY
Test Engineer	Yu Wang and Daniel Lee
Temperature	18~20°C
Relative Humidity	50~55%

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No. TW1190 and TW0007

1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ 47 CFR Part 2, 22(H), 24(E)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X Plane for GPRS 1900 with Ant. 1, Ant. 2 and EDGE 1900 with Ant. 2; Y Plane for GPRS 850, EDGE 850, WCDMA Band II, and WCDMA Band V with Ant. 1 and Ant. 2; Z Plane for EDGE 1900 with Ant. 1) were recorded in this report.

Radiated emissions were investigated as following frequency range:

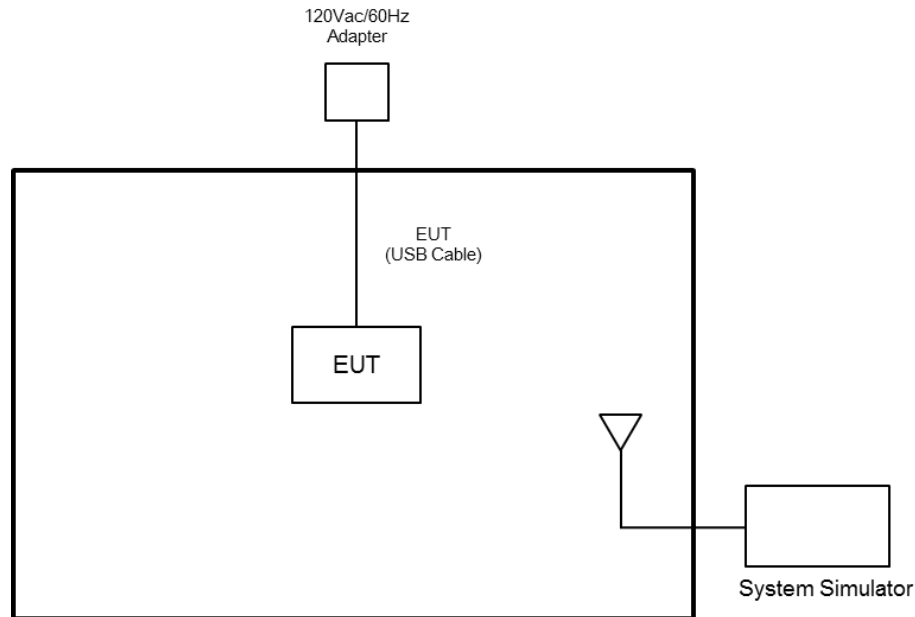
1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 19100 MHz for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	■ GPRS Class 8 Link	■ GPRS Class 8 Link
	■ EDGE Class 8 Link	■ EDGE Class 8 Link
GSM 1900	■ GPRS Class 8 Link	■ GPRS Class 8 Link
	■ EDGE Class 8 Link	■ EDGE Class 8 Link
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
Remark: All the radiated test cases were performed with Adapter 1 and USB Cable 1.		

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Adapter 1	N/A	N/A	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.2 dB and a 10dB attenuator.

Example:

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
GSM850	Channel	128	189	251
	Frequency	824.2	836.4	848.8
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
GSM1900	Channel	512	661	810
	Frequency	1850.2	1880.0	1909.8
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6

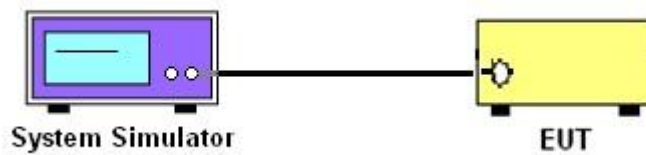
3 Conducted Test Result

3.1 Measuring Instruments

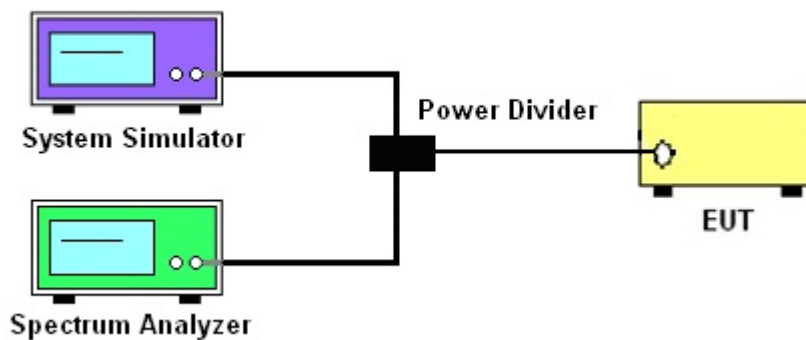
See list of measuring instruments of this test report.

3.1.1 Test Setup

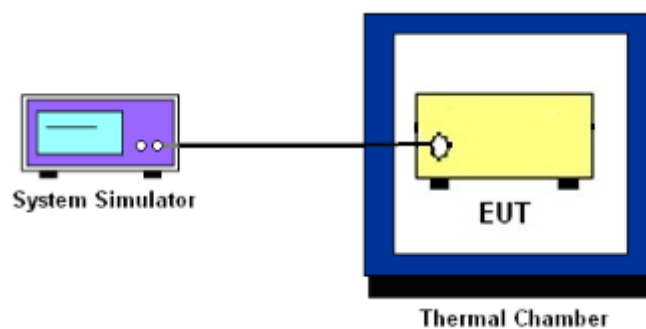
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power and ERP/EIRP

3.2.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.3.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 5.7.1

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. Set EUT to transmit at maximum output power.
3. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer.
5. Record the maximum PAPR level associated with a probability of 0.1%.

3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 4.2

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. The band edges of low and high channels for the highest RF powers were measured.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
5. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

24.235

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C steps up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

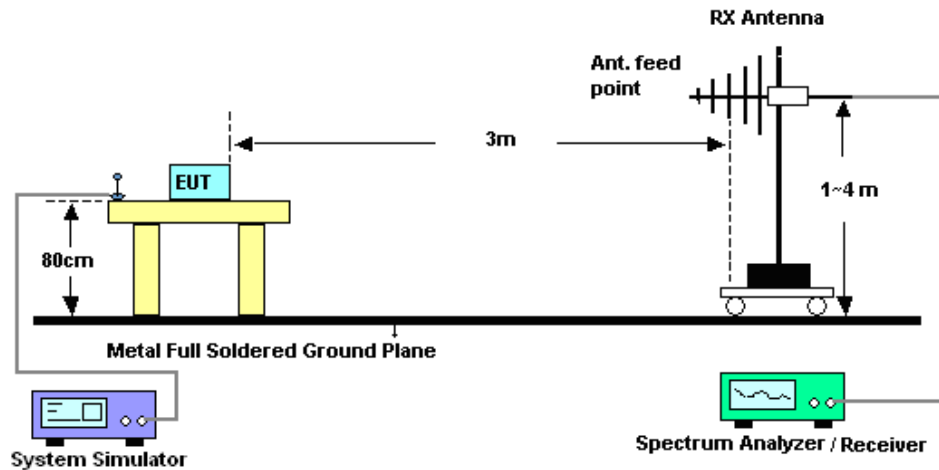
4 Radiated Test Items

4.1 Measuring Instruments

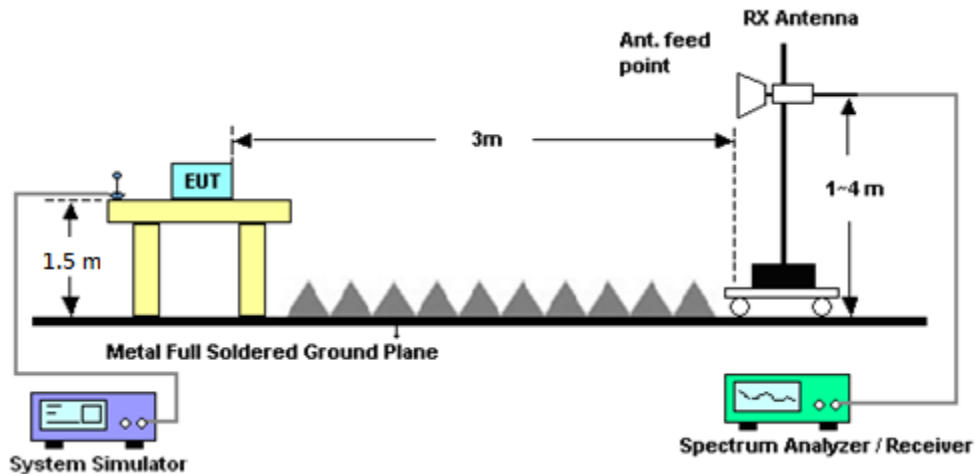
See list of measuring instruments of this test report.

4.2 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.



4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Jun. 29, 2018	Jan. 29, 2019~ Feb. 01, 2019	Jun. 28, 2019	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30℃ ~70℃	Dec. 06, 2017	Jan. 29, 2019~ Feb. 01, 2019	Dec. 05, 2019	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL883644	Voltage:0~20V; Current:0~5A	Dec. 06, 2017	Jan. 29, 2019~ Feb. 01, 2019	Dec. 05, 2019	Conducted (TH03-HY)
Base Station (Measure)	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Aug. 10, 2018	Jan. 29, 2019~ Feb. 01, 2019	Aug. 09, 2019	Conducted (TH03-HY)
Amplifier	SONOMA	310N	187231	9kHz~1GHz	Oct. 23, 2018	Jan. 24, 2019~ Jan. 28, 2019	Oct. 22, 2019	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35413&02	30MHz~1GHz	Jan. 10, 2019	Jan. 24, 2019~ Jan. 28, 2019	Jan. 09, 2020	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Oct. 02, 2018	Jan. 24, 2019~ Jan. 28, 2019	Oct. 01, 2019	Radiation (03CH10-HY)
Preamplifier	Keysight	83017A	MY53270078	1GHz~26.5GHz	Oct. 28, 2018	Jan. 24, 2019~ Jan. 28, 2019	Oct. 27, 2019	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHz	Nov. 02, 2018	Jan. 24, 2019~ Jan. 28, 2019	Nov. 01, 2019	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jan. 24, 2019~ Jan. 28, 2019	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Jan. 24, 2019~ Jan. 28, 2019	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Jan. 24, 2019~ Jan. 28, 2019	N/A	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	30M-1G	Nov. 08, 2018	Jan. 24, 2019~ Jan. 28, 2019	Nov. 07, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	1G-18G	Nov. 08, 2018	Jan. 24, 2019~ Jan. 28, 2019	Nov. 07, 2019	Radiation (03CH10-HY)
Filter	Microwave	H1G013G1	SN477215	1.0G High Pass	Nov. 02, 2018	Jan. 24, 2019~ Jan. 28, 2019	Nov. 01, 2019	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz ~ 18GHz	May 10, 2018	Jan. 24, 2019~ Jan. 28, 2019	May 09, 2019	Radiation (03CH10-HY)
Signal Generator	Rohde & Schwarz	SMBV100A	262848	9k-6G	Aug. 03, 2018	Jan. 24, 2019~ Jan. 28, 2019	Aug. 02, 2019	Radiation (03CH10-HY)



6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.17
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.48
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.00
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

<Ant. 1>

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880	1909.8
GPRS class 8	31.61	31.72	31.68	28.82	28.73	28.70
GPRS class 10	28.50	28.38	28.33	26.11	26.08	26.06
EGPRS class 8	25.36	25.17	25.00	24.85	24.67	24.56
EGPRS class 10	22.95	22.51	22.40	22.26	21.93	21.86

Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6
RMC 12.2K	22.09	22.03	22.00	22.24	22.18	22.11
HSDPA Subtest-1	22.05	22.00	21.97	22.19	22.14	21.99
HSDPA Subtest-2	21.77	21.57	21.62	22.01	21.79	21.71
HSDPA Subtest-3	21.30	21.27	21.13	21.52	21.37	21.26
HSDPA Subtest-4	20.67	20.80	20.51	21.04	20.80	20.67
HSUPA Subtest-1	21.07	20.84	20.90	22.14	21.39	21.45
HSUPA Subtest-2	19.31	19.39	19.35	20.03	20.14	19.92
HSUPA Subtest-3	19.66	19.68	19.66	20.28	20.34	20.17
HSUPA Subtest-4	19.81	19.86	20.04	20.58	20.59	20.46
HSUPA Subtest-5	21.38	21.25	21.30	22.10	22.23	21.91



<Ant. 2>

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880	1909.8
GPRS class 8	31.18	31.25	31.20	28.04	28.05	28.04
GPRS class 10	28.32	28.42	28.40	25.25	25.30	25.36
EGPRS class 8	25.45	25.27	25.12	24.45	24.02	24.05
EGPRS class 10	22.73	22.74	22.55	21.54	21.52	21.45

Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6
RMC 12.2K	21.74	21.86	21.92	21.58	21.71	21.75
HSDPA Subtest-1	21.88	21.83	21.80	21.70	21.65	21.50
HSDPA Subtest-2	21.60	21.40	21.45	21.52	21.30	21.22
HSDPA Subtest-3	21.13	21.10	20.96	21.03	20.88	20.77
HSDPA Subtest-4	20.50	20.63	20.34	20.55	20.31	20.18
HSUPA Subtest-1	20.90	20.67	20.73	21.65	20.90	20.96
HSUPA Subtest-2	19.14	19.22	19.18	19.54	19.65	19.43
HSUPA Subtest-3	19.49	19.51	19.49	19.79	19.85	19.68
HSUPA Subtest-4	19.64	19.69	19.87	20.09	20.10	19.97
HSUPA Subtest-5	21.21	21.08	21.13	21.61	21.74	21.42



A2. GSM

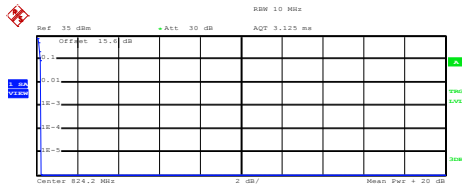
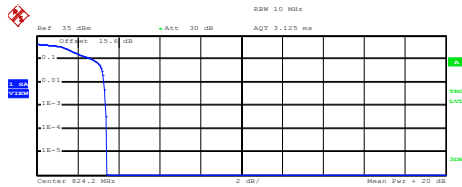
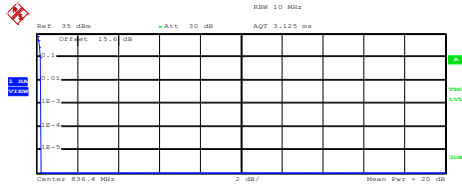
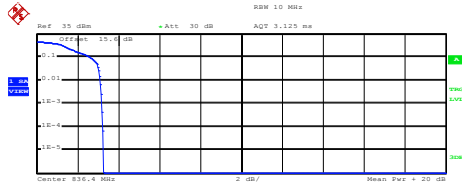
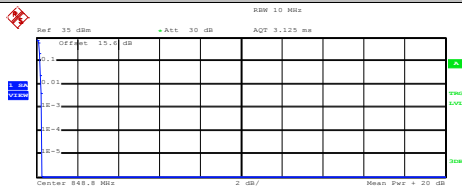
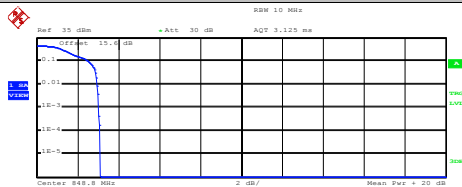
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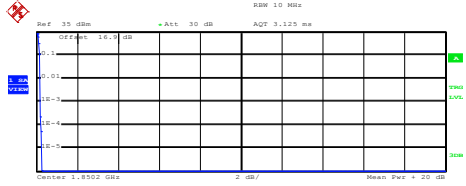
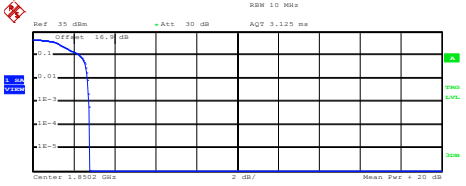
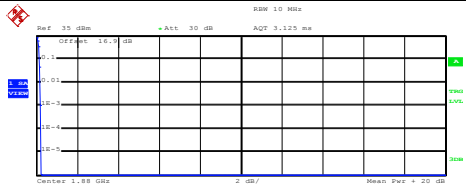
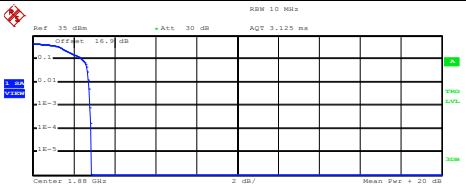
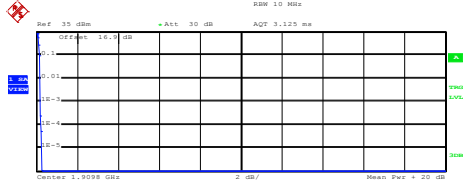
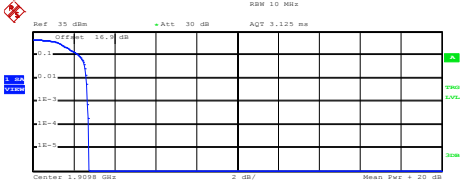
Peak-to-Average Ratio

Mode	GSM850		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.24	3.36	PASS
Middle CH	0.24	3.20	
Highest CH	0.28	3.04	

Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.20	2.76	PASS
Middle CH	0.20	2.80	
Highest CH	0.20	2.68	



GSM850 (GPRS class 8)		GSM850 (EDGE class 8)	
Lowest Channel		Lowest Channel	
 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 824.2 MHz Span: 2 dB Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 30.78 dBm Peak: 31.02 dBm Crest: 0.23 dB 10 %: 0.20 dB 1 %: 0.24 dB .1 %: 0.24 dB .01 %: 0.24 dB Date: 31.JAN.2019 15:12:19		 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 824.2 MHz Span: 2 dB Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 25.00 dBm Peak: 28.41 dBm Crest: 3.41 dB 10 %: 2.72 dB 1 %: 3.28 dB .1 %: 3.36 dB .01 %: 3.44 dB Date: 31.JAN.2019 14:59:30	
Middle Channel		Middle Channel	
 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 836.4 MHz Span: 2 dB Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 30.87 dBm Peak: 31.09 dBm Crest: 0.22 dB 10 %: 0.20 dB 1 %: 0.24 dB .1 %: 0.24 dB .01 %: 0.24 dB Date: 31.JAN.2019 15:12:38		 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 836.4 MHz Span: 2 dB Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 25.02 dBm Peak: 28.26 dBm Crest: 3.24 dB 10 %: 2.60 dB 1 %: 3.12 dB .1 %: 3.20 dB .01 %: 3.24 dB Date: 31.JAN.2019 14:59:59	
Highest Channel		Highest Channel	
 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 848.8 MHz Span: 2 dB Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 30.91 dBm Peak: 31.16 dBm Crest: 0.25 dB 10 %: 0.20 dB 1 %: 0.24 dB .1 %: 0.28 dB .01 %: 0.28 dB Date: 31.JAN.2019 15:12:57		 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 848.8 MHz Span: 2 dB Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 25.02 dBm Peak: 28.12 dBm Crest: 3.10 dB 10 %: 2.52 dB 1 %: 2.96 dB .1 %: 3.04 dB .01 %: 3.08 dB Date: 31.JAN.2019 15:00:19	

GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)
Lowest Channel	Lowest Channel
 Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 1.8502 GHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 27.24 dBm Peak 27.49 dBm Crest 0.25 dB 10 % 0.16 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.24 dB Date: 31.JAN.2019 14:22:53	 Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 1.8502 GHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.66 dBm Peak 26.43 dBm Crest 2.77 dB 10 % 2.28 dB 1 % 2.68 dB .1 % 2.76 dB .01 % 2.80 dB Date: 31.JAN.2019 14:46:17
Middle Channel	Middle Channel
 Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 1.88 GHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 27.32 dBm Peak 27.56 dBm Crest 0.24 dB 10 % 0.16 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.24 dB Date: 31.JAN.2019 14:23:11	 Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 1.88 GHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.37 dBm Peak 26.22 dBm Crest 2.85 dB 10 % 2.40 dB 1 % 2.72 dB .1 % 2.80 dB .01 % 2.84 dB Date: 31.JAN.2019 14:46:37
Highest Channel	Highest Channel
 Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 1.9098 GHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 27.31 dBm Peak 27.56 dBm Crest 0.25 dB 10 % 0.16 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.24 dB Date: 31.JAN.2019 14:23:30	 Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 1.9098 GHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.28 dBm Peak 26.01 dBm Crest 2.73 dB 10 % 2.24 dB 1 % 2.64 dB .1 % 2.68 dB .01 % 2.72 dB Date: 31.JAN.2019 14:46:59

**26dB Bandwidth**

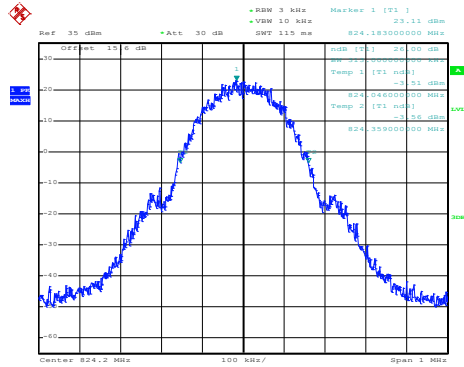
Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.313	0.307
Middle CH	0.305	0.299
Highest CH	0.313	0.286

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.311	0.302
Middle CH	0.299	0.309
Highest CH	0.313	0.312



GSM850 (GPRS class 8)

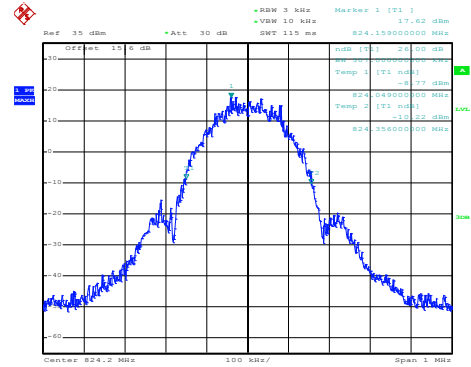
Lowest Channel



Date: 31.JAN.2019 15:02:41

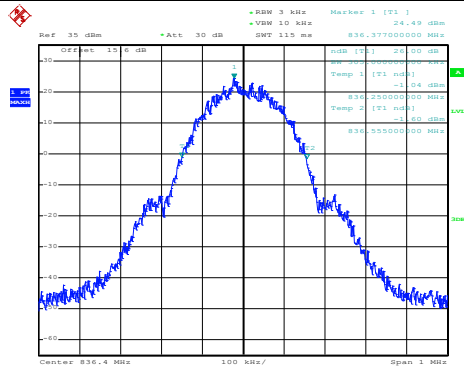
GSM850 (EDGE class 8)

Lowest Channel



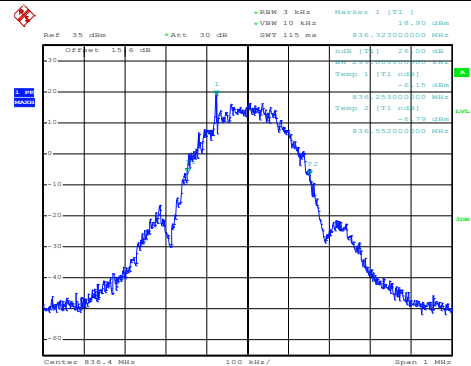
Date: 31.JAN.2019 14:49:04

Middle Channel



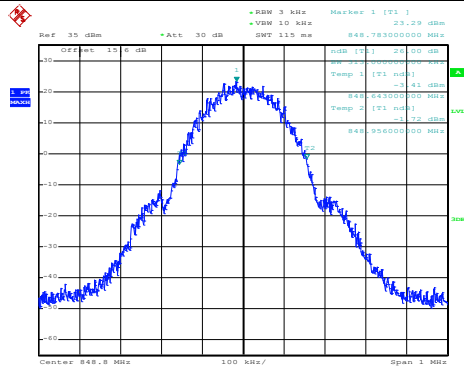
Date: 31.JAN.2019 15:03:23

Middle Channel



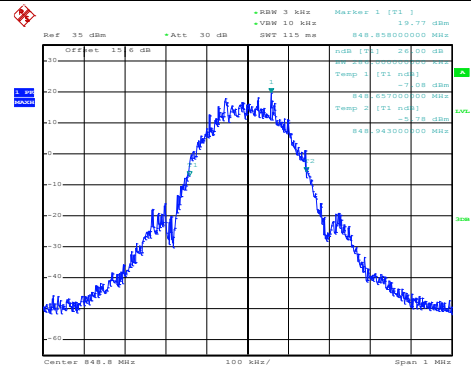
Date: 31.JAN.2019 14:49:39

Highest Channel

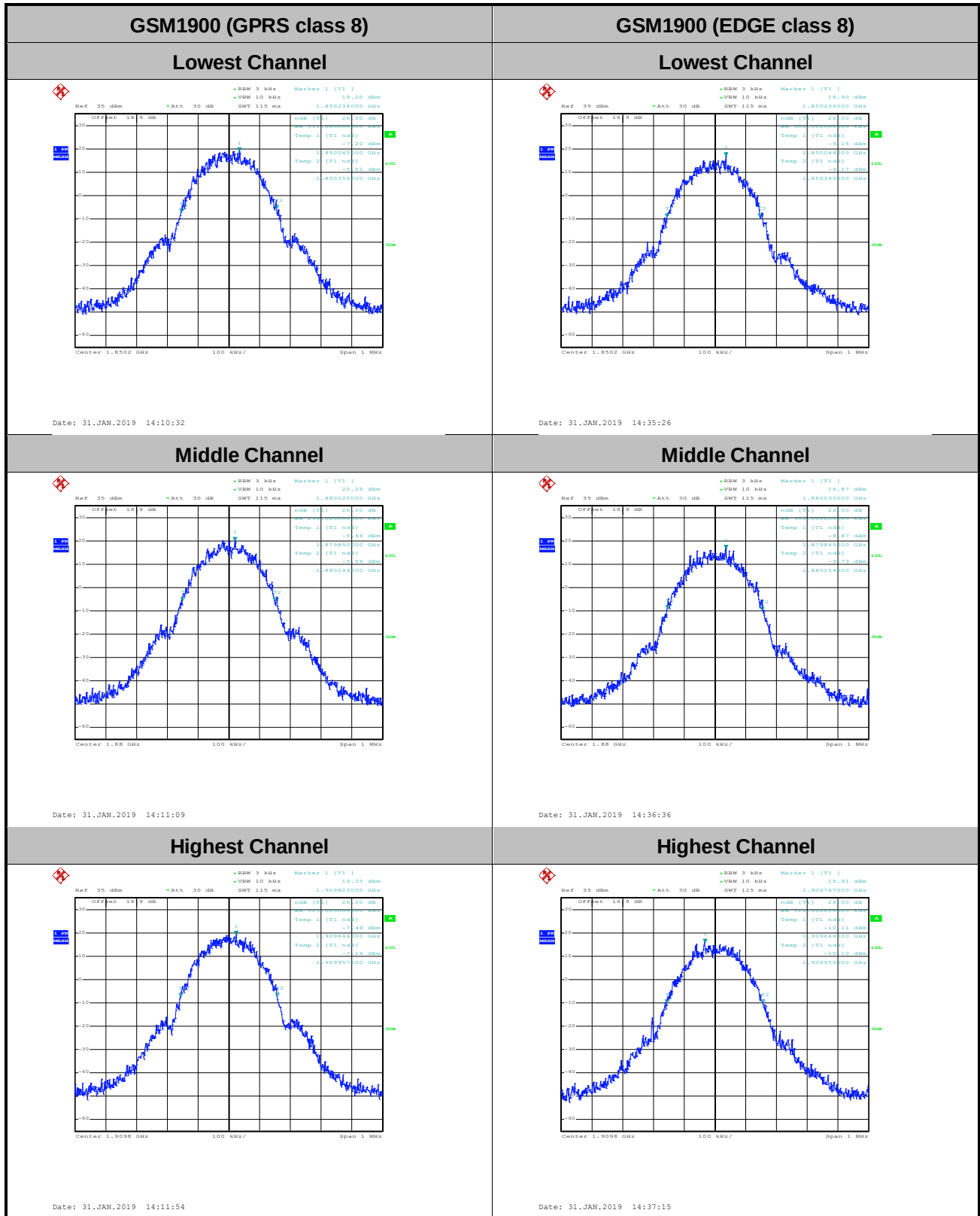


Date: 31.JAN.2019 15:03:58

Highest Channel



Date: 31.JAN.2019 14:50:16



**Occupied Bandwidth**

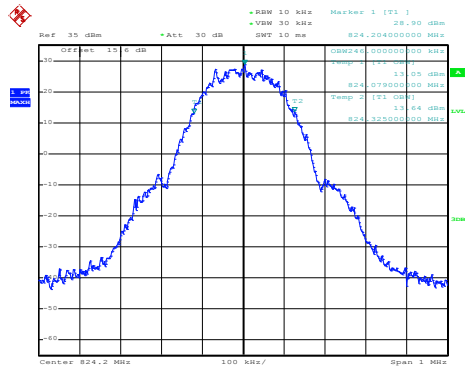
Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.246	0.242
Middle CH	0.248	0.251
Highest CH	0.249	0.240

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.243	0.249
Middle CH	0.244	0.252
Highest CH	0.246	0.248



GSM850 (GPRS class 8)

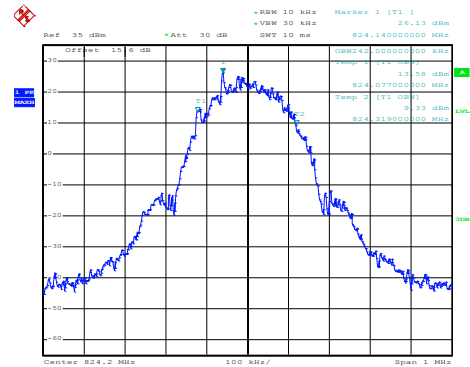
Lowest Channel



Date: 31.JAN.2019 15:04:43

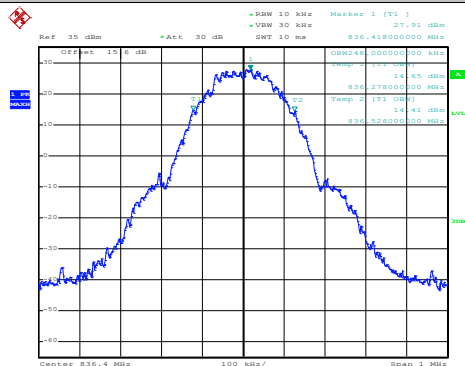
GSM850 (EDGE class 8)

Lowest Channel



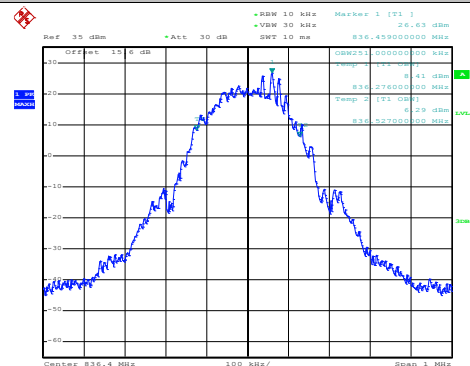
Date: 31.JAN.2019 14:50:58

Middle Channel



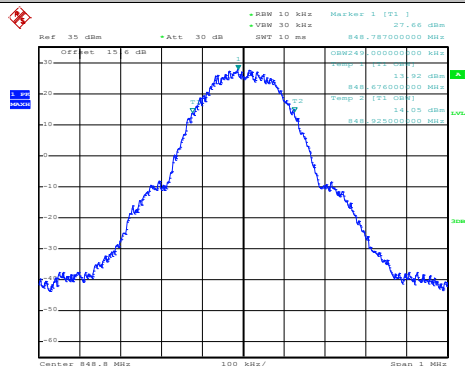
Date: 31.JAN.2019 15:05:22

Middle Channel



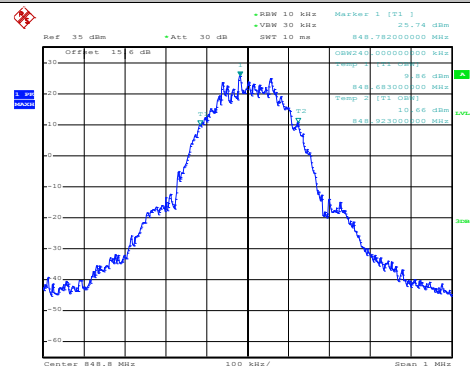
Date: 31.JAN.2019 14:51:34

Highest Channel



Date: 31.JAN.2019 15:05:58

Highest Channel

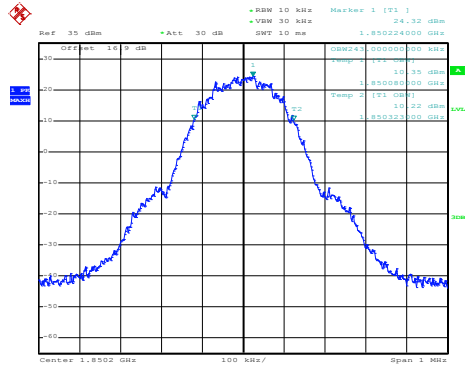


Date: 31.JAN.2019 14:52:11



GSM1900 (GPRS class 8)

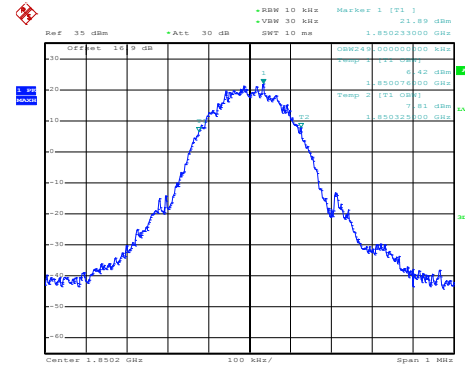
Lowest Channel



Date: 31.JAN.2019 14:13:26

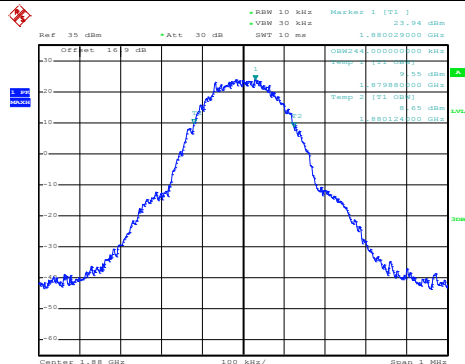
GSM1900 (EDGE class 8)

Lowest Channel



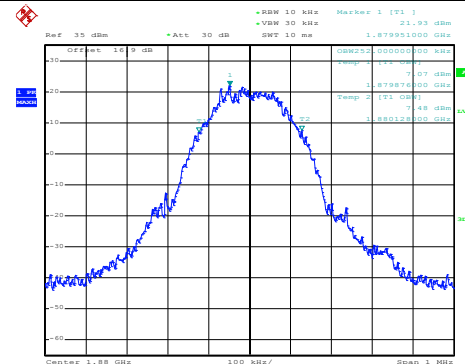
Date: 31.JAN.2019 14:38:18

Middle Channel



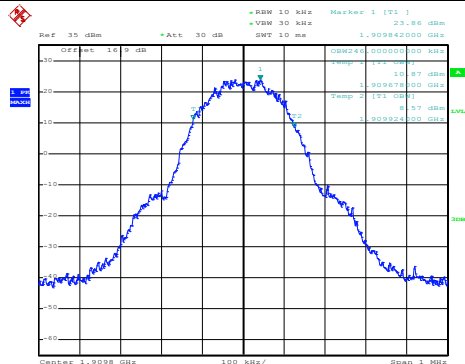
Date: 31.JAN.2019 14:14:03

Middle Channel



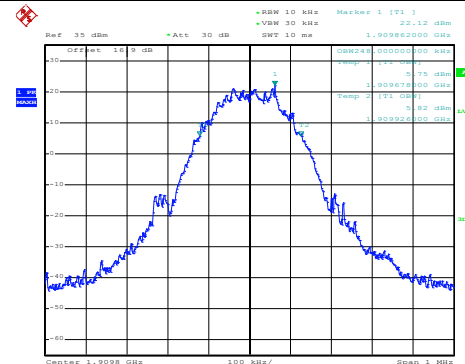
Date: 31.JAN.2019 14:38:56

Highest Channel



Date: 31.JAN.2019 14:15:02

Highest Channel



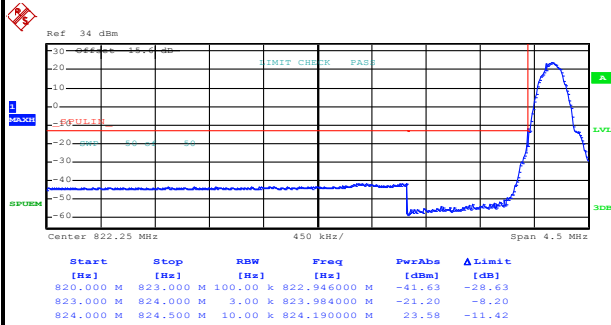
Date: 31.JAN.2019 14:39:31



Conducted Band Edge

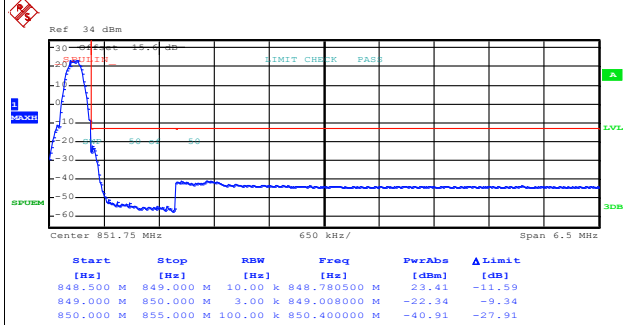
GSM850 (GPRS class 8)

Lowest Band Edge



Date: 31.JAN.2019 15:07:39

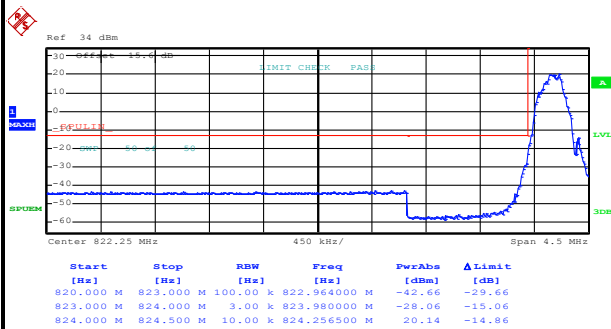
Highest Band Edge



Date: 31.JAN.2019 15:09:12

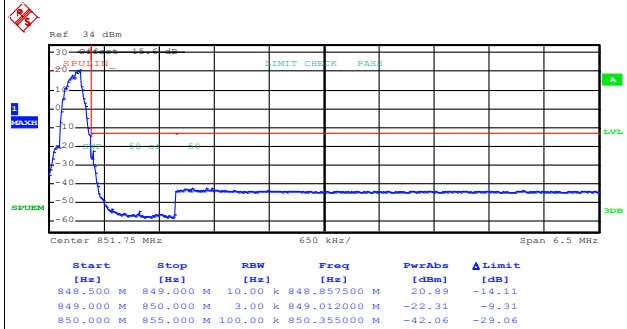
GSM850 (EDGE class 8)

Lowest Band Edge



Date: 31.JAN.2019 14:53:58

Highest Band Edge

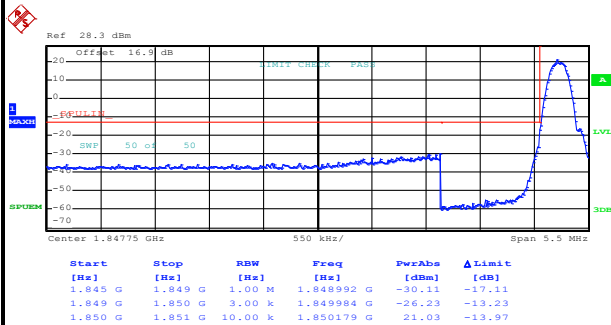


Date: 31.JAN.2019 14:55:35



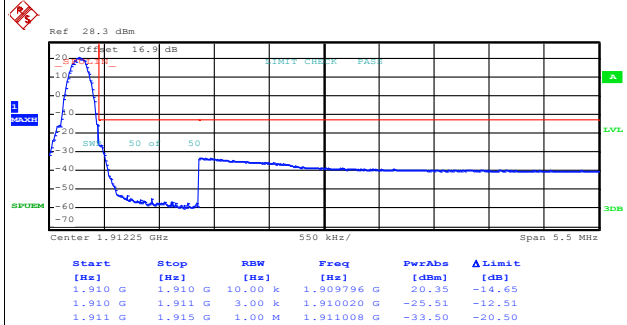
GSM1900 (GPRS class 8)

Lowest Band Edge



Date: 31.JAN.2019 14:17:36

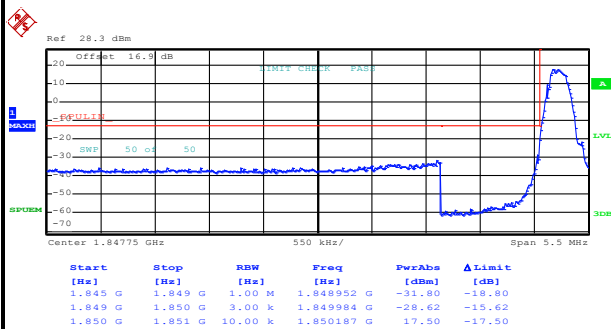
Highest Band Edge



Date: 31.JAN.2019 14:19:10

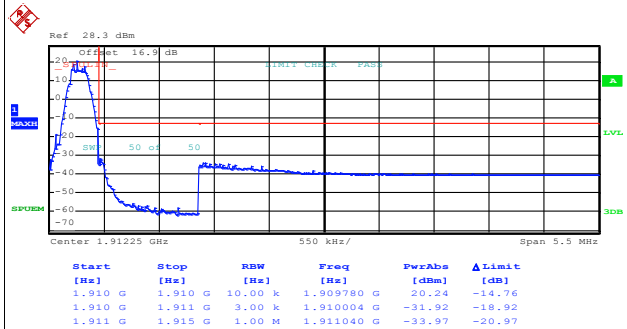
GSM1900 (EDGE class 8)

Lowest Band Edge



Date: 31.JAN.2019 14:41:20

Highest Band Edge



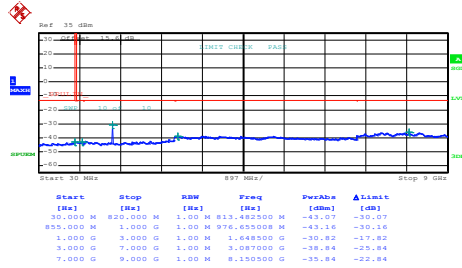
Date: 31.JAN.2019 14:43:08



Conducted Spurious Emission

GSM850 (GPRS class 8)

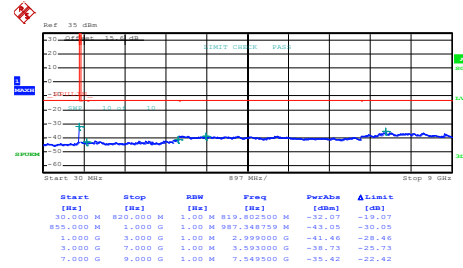
Lowest Channel



Date: 31.JAN.2019 15:10:12

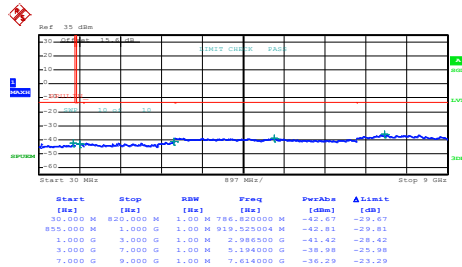
GSM850 (EDGE class 8)

Lowest Channel



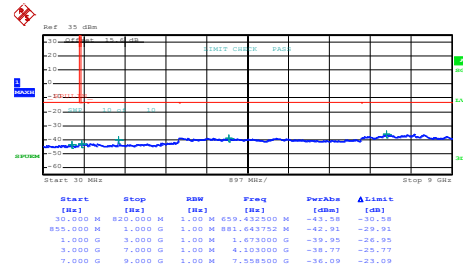
Date: 31.JAN.2019 14:56:41

Middle Channel



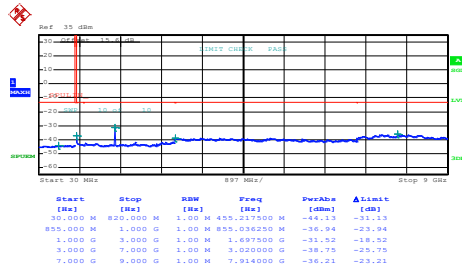
Date: 31.JAN.2019 15:11:04

Middle Channel



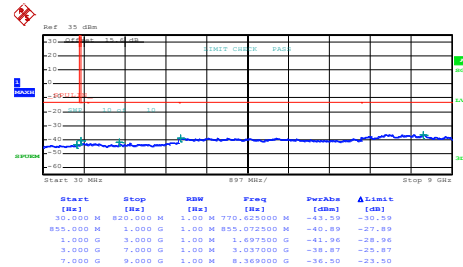
Date: 31.JAN.2019 14:57:39

Highest Channel



Date: 31.JAN.2019 15:11:58

Highest Channel

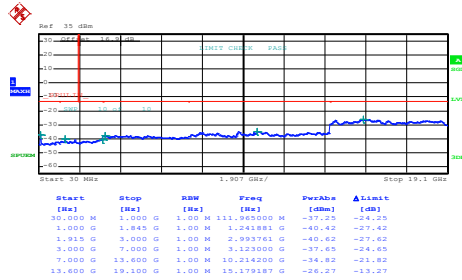


Date: 31.JAN.2019 14:58:44



GSM1900 (GPRS class 8)

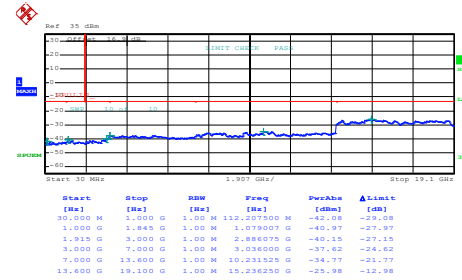
Lowest Channel



Date: 31.JAN.2019 14:20:40

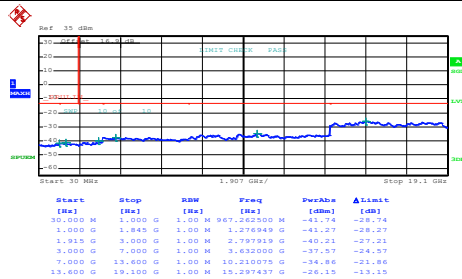
GSM1900 (EDGE class 8)

Lowest Channel



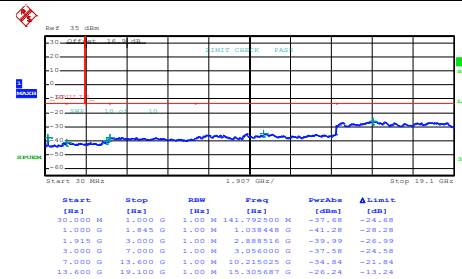
Date: 31.JAN.2019 14:44:05

Middle Channel



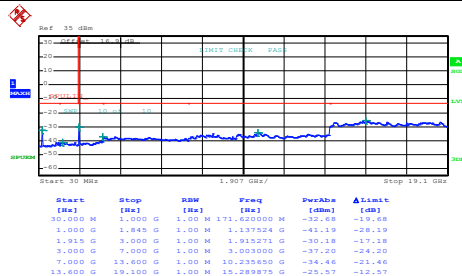
Date: 31.JAN.2019 14:21:33

Middle Channel



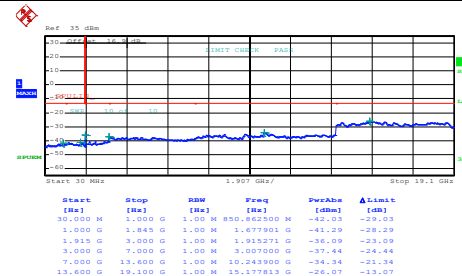
Date: 31.JAN.2019 14:44:59

Highest Channel



Date: 31.JAN.2019 14:22:24

Highest Channel



Date: 31.JAN.2019 14:45:52

**Frequency Stability**

Test Conditions	Middle Channel	GSM850 (GPRS class 8)	GSM850 (EDGE class 8)	Limit
				2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0024	0.0072	PASS
40	Normal Voltage	0.0000	0.0000	
30	Normal Voltage	0.0012	0.0024	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0036	0.0012	
0	Normal Voltage	0.0060	0.0036	
-10	Normal Voltage	0.0096	0.0084	
-20	Normal Voltage	0.0120	0.0048	
-30	Normal Voltage	0.0108	0.0024	
20	Maximum Voltage	0.0036	0.0060	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0048	0.0048	

Test Conditions	Middle Channel	GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0005	0.0005	PASS
40	Normal Voltage	0.0005	0.0027	
30	Normal Voltage	0.0027	0.0021	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0037	0.0032	
0	Normal Voltage	0.0043	0.0043	
-10	Normal Voltage	0.0027	0.0011	
-20	Normal Voltage	0.0021	0.0053	
-30	Normal Voltage	0.0005	0.0027	
20	Maximum Voltage	0.0011	0.0011	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0011	0.0027	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block.



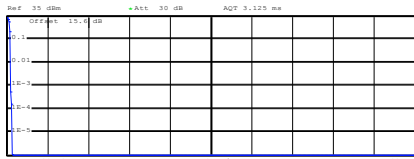
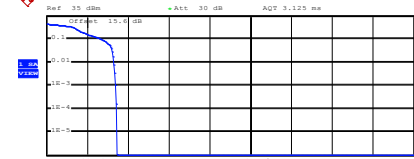
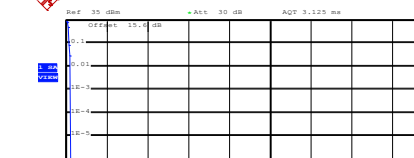
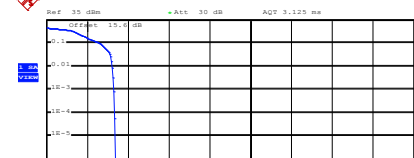
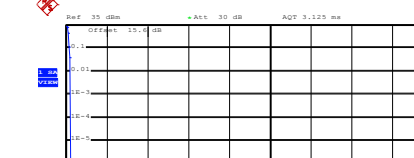
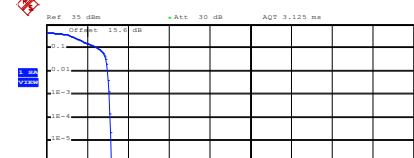
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Peak-to-Average Ratio

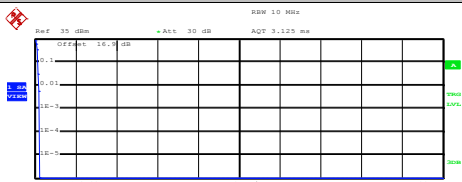
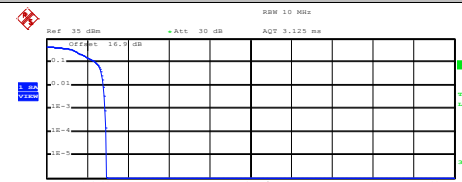
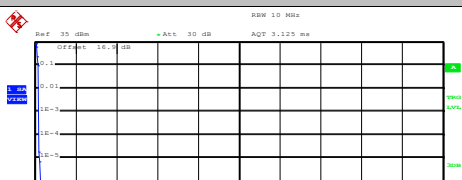
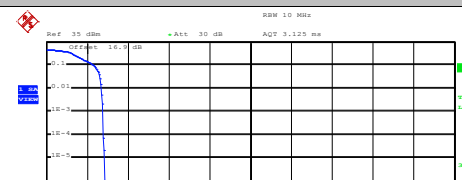
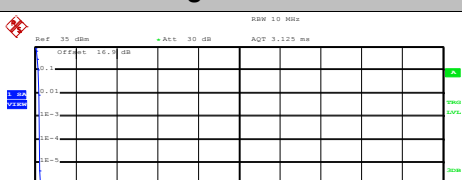
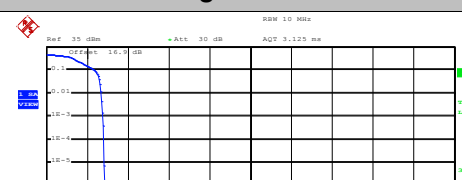
Mode	GSM850		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.20	3.4	PASS
Middle CH	0.24	3.32	
Highest CH	0.24	3.08	

Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.24	2.88	PASS
Middle CH	0.20	2.80	
Highest CH	0.24	2.76	



GSM850 (GPRS class 8)		GSM850 (EDGE class 8)	
Lowest Channel		Lowest Channel	
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 30.45 dBm Peak 30.71 dBm Crest 0.26 dB 10 % 0.20 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.24 dB Date: 30.JAN.2019 16:35:34		 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.66 dBm Peak 28.10 dBm Crest 3.44 dB 10 % 2.76 dB 1 % 3.32 dB .1 % 3.40 dB .01 % 3.44 dB Date: 30.JAN.2019 16:55:35	
Middle Channel		Middle Channel	
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 30.55 dBm Peak 30.78 dBm Crest 0.23 dB 10 % 0.16 dB 1 % 0.24 dB .1 % 0.24 dB .01 % 0.24 dB Date: 30.JAN.2019 16:35:53		 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.53 dBm Peak 27.89 dBm Crest 3.36 dB 10 % 2.64 dB 1 % 3.24 dB .1 % 3.32 dB .01 % 3.36 dB Date: 30.JAN.2019 16:55:53	
Highest Channel		Highest Channel	
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 30.56 dBm Peak 30.78 dBm Crest 0.22 dB 10 % 0.16 dB 1 % 0.24 dB .1 % 0.24 dB .01 % 0.24 dB Date: 30.JAN.2019 16:38:50		 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.63 dBm Peak 27.82 dBm Crest 3.19 dB 10 % 2.52 dB 1 % 3.00 dB .1 % 3.08 dB .01 % 3.12 dB Date: 30.JAN.2019 16:56:13	



GSM1900 (GPRS class 8)		GSM1900 (EDGE class 8)	
Lowest Channel		Lowest Channel	
 Ref: 35 dBm Att: 30 dB AGT: 3.125 ms Center: 1.8502 GHz 2 dB/ Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 27.02 dBm Peak: 27.25 dBm Crest: 0.23 dB 10 %: 0.16 dB 1 %: 0.20 dB .1 %: 0.24 dB .01 %: 0.24 dB Date: 30.JAN.2019 16:15:08		 Ref: 35 dBm Att: 30 dB AGT: 3.125 ms Center: 1.8502 GHz 2 dB/ Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 23.27 dBm Peak: 26.19 dBm Crest: 2.92 dB 10 %: 2.40 dB 1 %: 2.80 dB .1 %: 2.88 dB .01 %: 2.92 dB Date: 30.JAN.2019 16:00:06	
Middle Channel		Middle Channel	
 Ref: 35 dBm Att: 30 dB AGT: 3.125 ms Center: 1.85 GHz 2 dB/ Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 27.06 dBm Peak: 27.32 dBm Crest: 0.27 dB 10 %: 0.16 dB 1 %: 0.20 dB .1 %: 0.20 dB .01 %: 0.20 dB Date: 30.JAN.2019 16:15:28		 Ref: 35 dBm Att: 30 dB AGT: 3.125 ms Center: 1.85 GHz 2 dB/ Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 23.20 dBm Peak: 26.05 dBm Crest: 2.85 dB 10 %: 2.32 dB 1 %: 2.72 dB .1 %: 2.80 dB .01 %: 2.80 dB Date: 30.JAN.2019 16:00:43	
Highest Channel		Highest Channel	
 Ref: 35 dBm Att: 30 dB AGT: 3.125 ms Center: 1.9098 GHz 2 dB/ Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 27.05 dBm Peak: 27.32 dBm Crest: 0.27 dB 10 %: 0.16 dB 1 %: 0.20 dB .1 %: 0.24 dB .01 %: 0.24 dB Date: 30.JAN.2019 16:15:47		 Ref: 35 dBm Att: 30 dB AGT: 3.125 ms Center: 1.9098 GHz 2 dB/ Mean Pwr: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 23.01 dBm Peak: 25.84 dBm Crest: 2.84 dB 10 %: 2.36 dB 1 %: 2.68 dB .1 %: 2.76 dB .01 %: 2.84 dB Date: 30.JAN.2019 16:01:03	

**26dB Bandwidth**

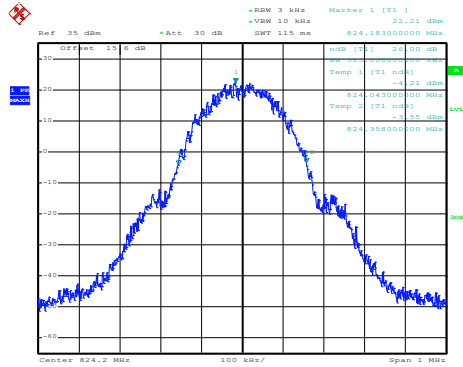
Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.315	0.289
Middle CH	0.317	0.291
Highest CH	0.311	0.292

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.316	0.313
Middle CH	0.314	0.319
Highest CH	0.308	0.305



GSM850 (GPRS class 8)

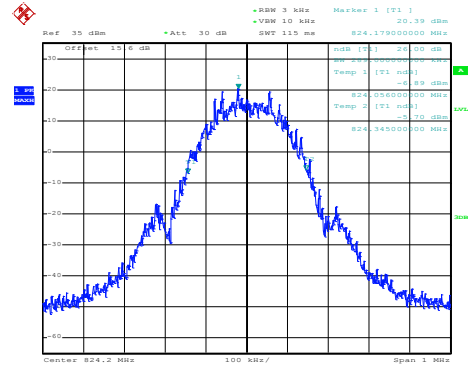
Lowest Channel



Date: 30.JAN.2019 16:23:14

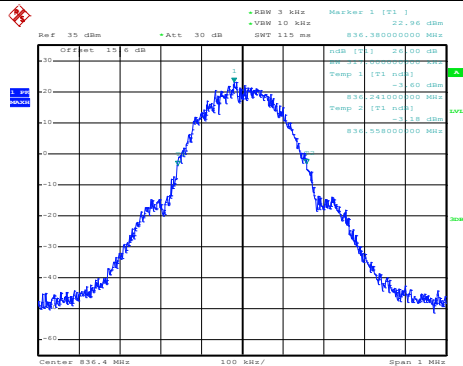
GSM850 (EDGE class 8)

Lowest Channel



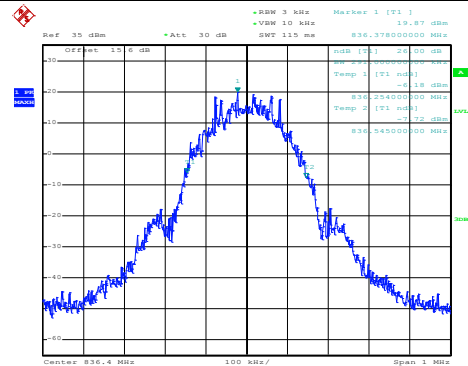
Date: 30.JAN.2019 16:42:07

Middle Channel



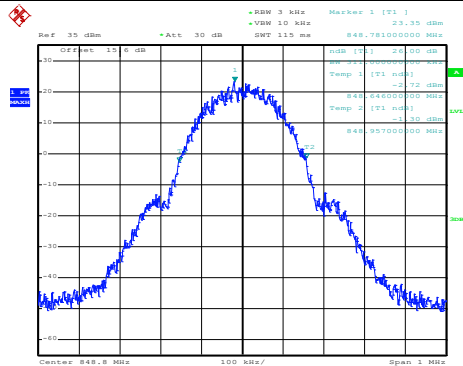
Date: 30.JAN.2019 16:24:38

Middle Channel



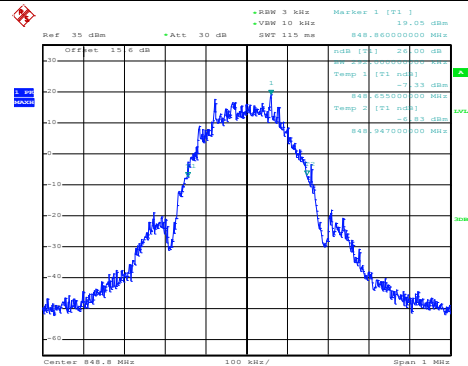
Date: 30.JAN.2019 16:42:46

Highest Channel

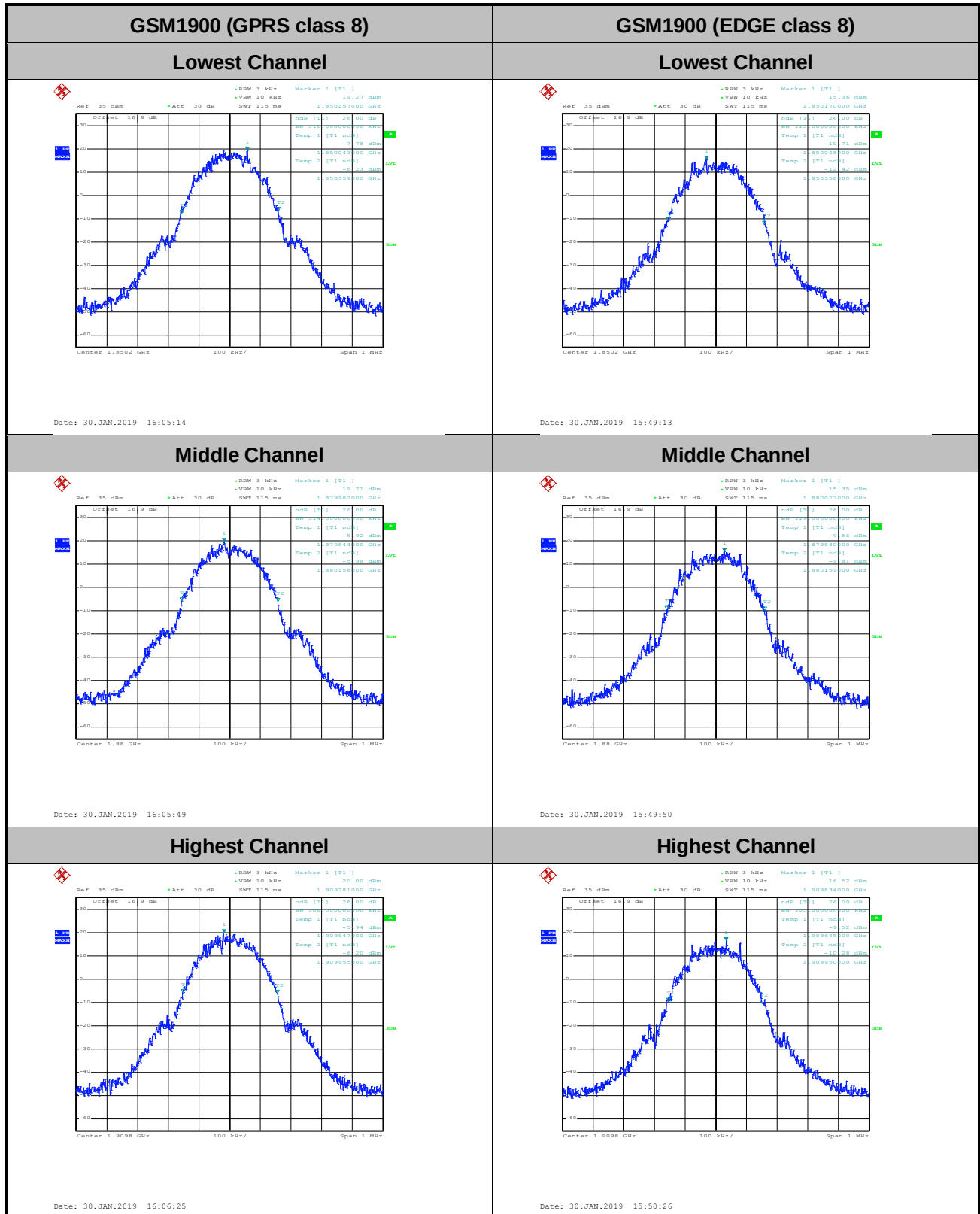


Date: 30.JAN.2019 16:25:27

Highest Channel



Date: 30.JAN.2019 16:44:04



**Occupied Bandwidth**

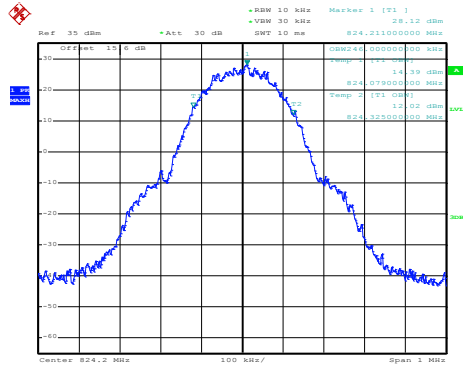
Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.246	0.242
Middle CH	0.245	0.245
Highest CH	0.245	0.247

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.247	0.250
Middle CH	0.246	0.246
Highest CH	0.245	0.248



GSM850 (GPRS class 8)

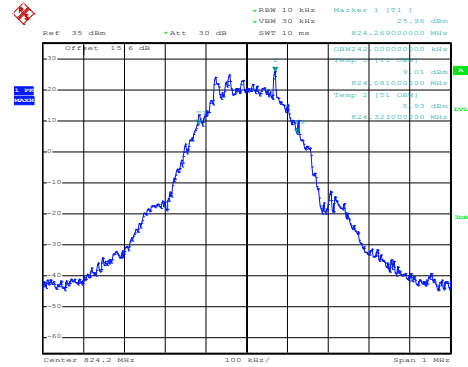
Lowest Channel



Date: 30.JAN.2019 16:26:09

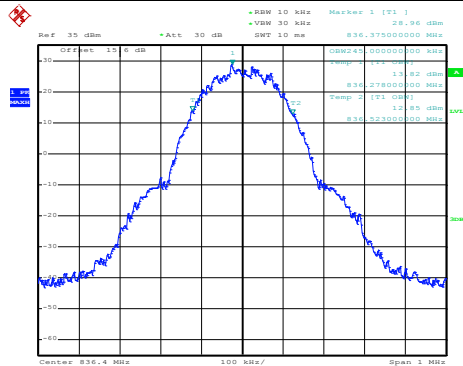
GSM850 (EDGE class 8)

Lowest Channel



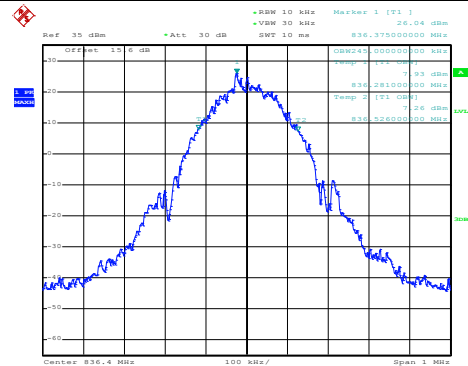
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Middle Channel



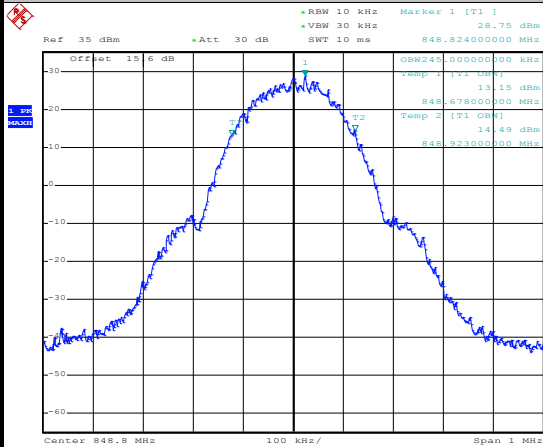
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Middle Channel



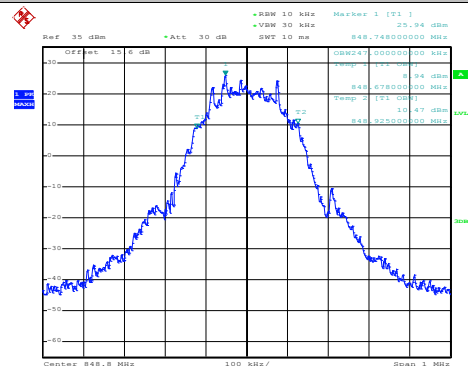
Date: 30.JAN.2019 16:47:40

Highest Channel



Date: 30.JAN.2019 16:48:15

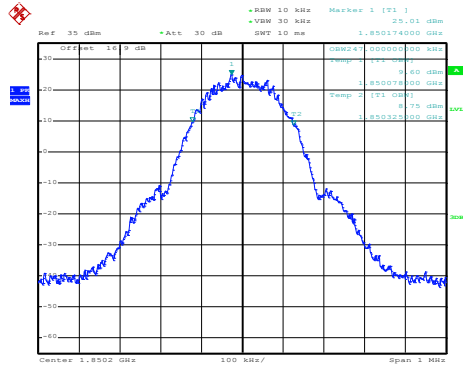
Highest Channel





GSM1900 (GPRS class 8)

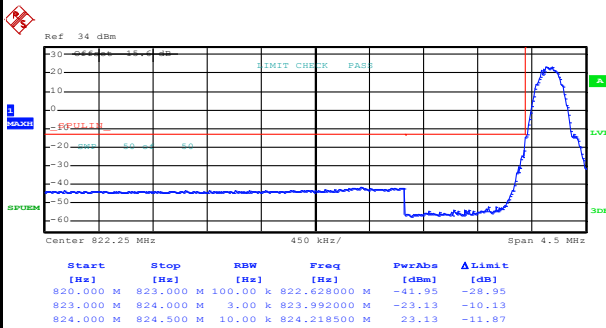
Lowest Channel



Conducted Band Edge

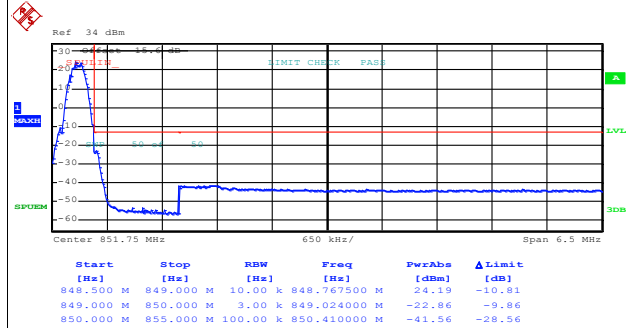
GSM850 (GPRS class 8)

Lowest Band Edge



Date: 30.JAN.2019 16:29:28

Highest Band Edge

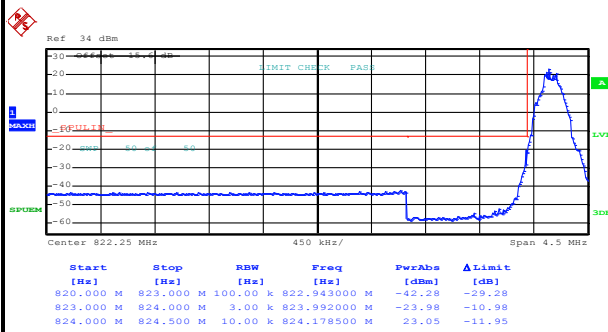


Date: 30.JAN.2019 16:32:06



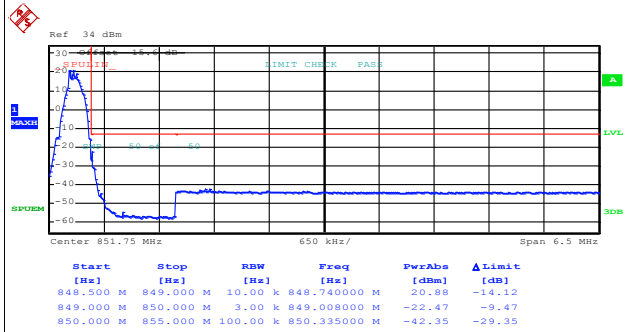
GSM850 (EDGE class 8)

Lowest Band Edge



Date: 30.JAN.2019 16:49:56

Highest Band Edge

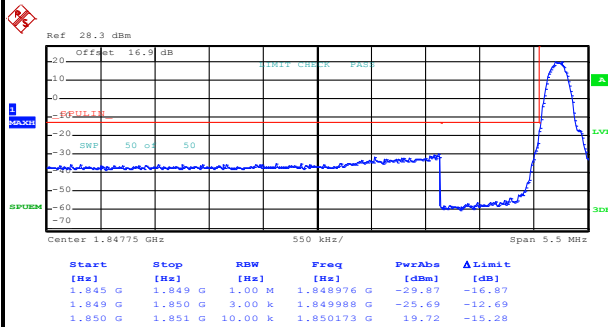


Date: 30.JAN.2019 16:52:18



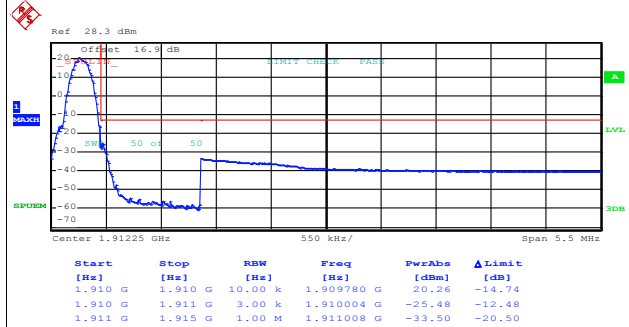
GSM1900 (GPRS class 8)

Lowest Band Edge



Date: 30.JAN.2019 16:09:53

Highest Band Edge

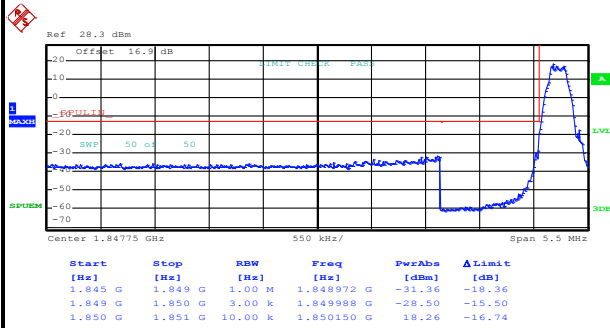


Date: 30.JAN.2019 16:11:50



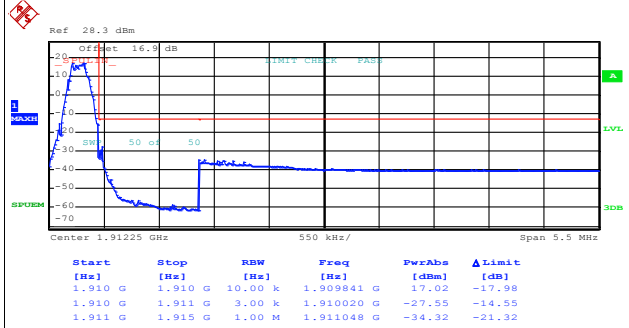
GSM1900 (EDGE class 8)

Lowest Band Edge



Date: 30.JAN.2019 15:54:03

Highest Band Edge



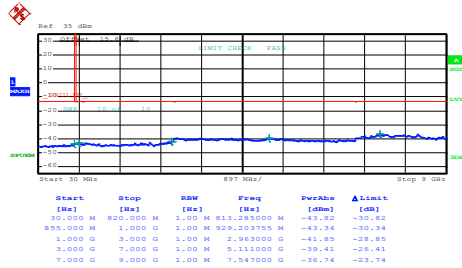
Date: 30.JAN.2019 15:55:38



Conducted Spurious Emission

GSM850 (GPRS class 8)

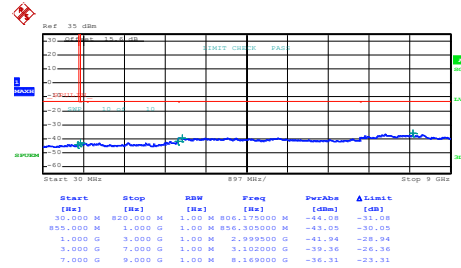
Lowest Channel



Date: 30.JAN.2019 16:33:20

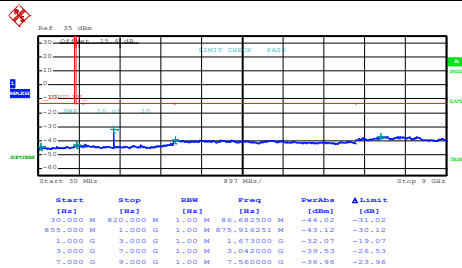
GSM850 (EDGE class 8)

Lowest Channel



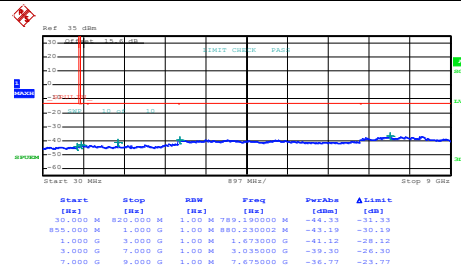
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Middle Channel



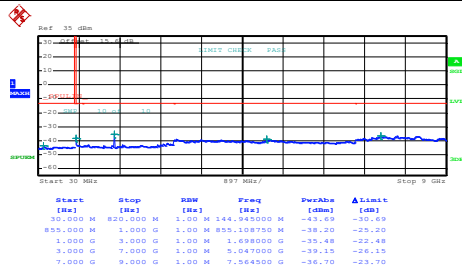
Date: 30.JAN.2019 16:34:15

Middle Channel



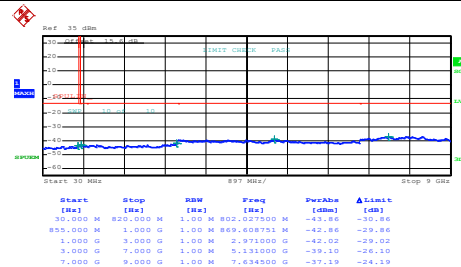
Date: 30.JAN.2019 16:54:17

Highest Channel



Date: 30.JAN.2019 16:35:07

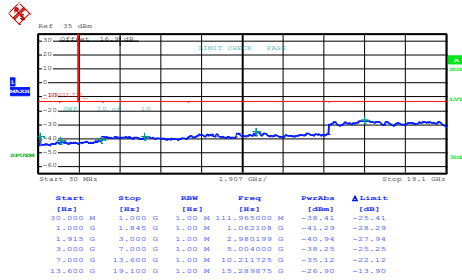
Highest Channel



Date: 30.JAN.2019 16:55:09

GSM1900 (GPRS class 8)

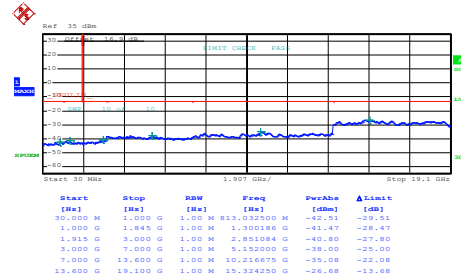
Lowest Channel



Date: 30.JAN.2019 16:12:56

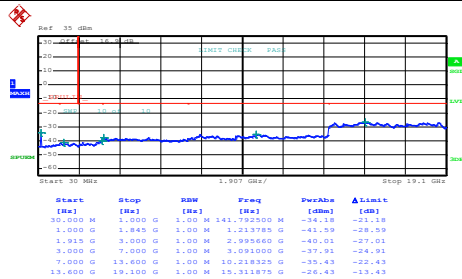
GSM1900 (EDGE class 8)

Lowest Channel



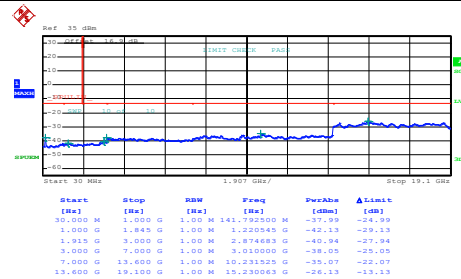
Date: 30.JAN.2019 15:57:10

Middle Channel



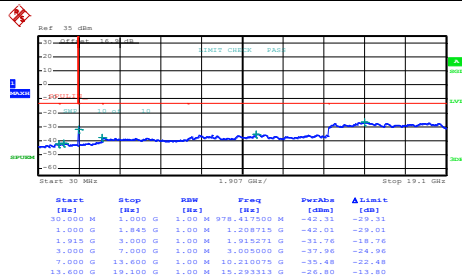
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Middle Channel



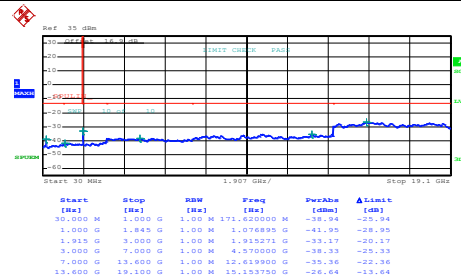
Date: 30.JAN.2019 15:58:04

Highest Channel



Date: 30.JAN.2019 16:14:44

Highest Channel



Date: 30.JAN.2019 15:58:56

**Frequency Stability**

Test Conditions Temperature (°C)	Middle Channel Voltage (Volt)	GSM850 (GPRS class 8) Deviation (ppm)	GSM850 (EDGE class 8) Deviation (ppm)	Limit 2.5ppm Result
50	Normal Voltage	0.0012	0.0048	PASS
40	Normal Voltage	0.0000	0.0000	
30	Normal Voltage	0.0036	0.0024	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0060	0.0048	
0	Normal Voltage	0.0096	0.0072	
-10	Normal Voltage	0.0072	0.0024	
-20	Normal Voltage	0.0120	0.0024	
-30	Normal Voltage	0.0155	0.0000	
20	Maximum Voltage	0.0024	0.0024	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0060	0.0048	



Test Conditions	Middle Channel	GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0021	0.0027	PASS
40	Normal Voltage	0.0037	0.0011	
30	Normal Voltage	0.0027	0.0021	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0016	0.0005	
0	Normal Voltage	0.0027	0.0000	
-10	Normal Voltage	0.0000	0.0011	
-20	Normal Voltage	0.0048	0.0016	
-30	Normal Voltage	0.0064	0.0016	
20	Maximum Voltage	0.0016	0.0011	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0011	0.0027	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block.

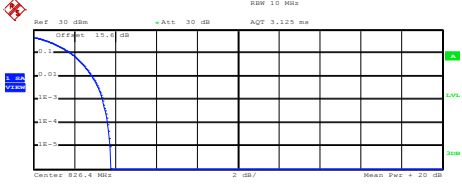
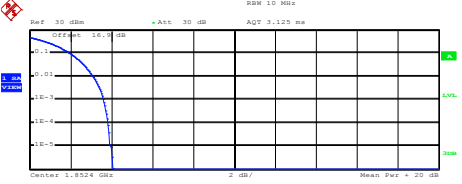
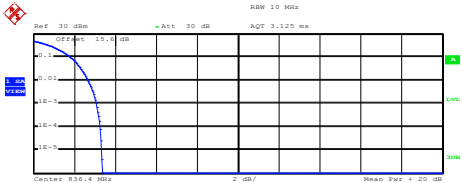
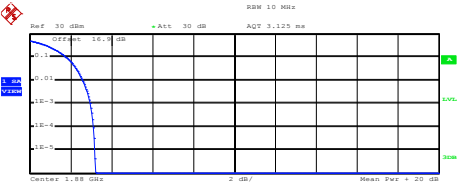
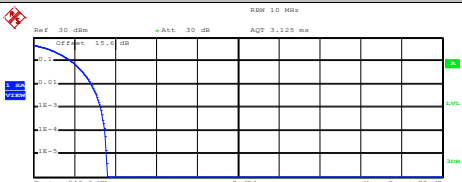
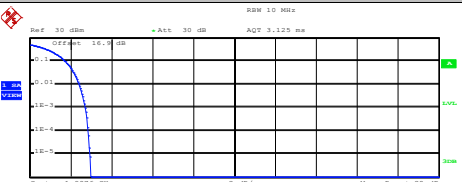


A3. WCDMA

<Ant. 1>

Peak-to-Average Ratio

Mode	WCDMA Band V	WCDMA Band II	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.40	3.60	PASS
Middle CH	3.08	2.96	
Highest CH	3.28	2.72	

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	Lowest Channel
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.52 dBm Peak 25.31 dBm Crest 3.79 dB 10 % 1.84 dB 1 % 2.88 dB .1 % 3.40 dB .01 % 3.64 dB Date: 31.JAN.2019 14:06:46	 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 20.90 dBm Peak 24.96 dBm Crest 4.06 dB 10 % 2.00 dB 1 % 3.08 dB .1 % 3.60 dB .01 % 3.84 dB Date: 31.JAN.2019 13:50:56
Middle Channel	Middle Channel
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.60 dBm Peak 24.96 dBm Crest 3.36 dB 10 % 1.80 dB 1 % 2.68 dB .1 % 3.08 dB .01 % 3.28 dB Date: 31.JAN.2019 14:07:15	 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.12 dBm Peak 24.32 dBm Crest 3.20 dB 10 % 1.80 dB 1 % 2.60 dB .1 % 2.96 dB .01 % 3.12 dB Date: 31.JAN.2019 13:51:13
Highest Channel	Highest Channel
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.63 dBm Peak 25.24 dBm Crest 3.61 dB 10 % 1.84 dB 1 % 2.84 dB .1 % 3.28 dB .01 % 3.48 dB Date: 31.JAN.2019 14:07:32	 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.20 dBm Peak 24.18 dBm Crest 2.98 dB 10 % 1.76 dB 1 % 2.40 dB .1 % 2.72 dB .01 % 2.88 dB Date: 31.JAN.2019 13:51:31

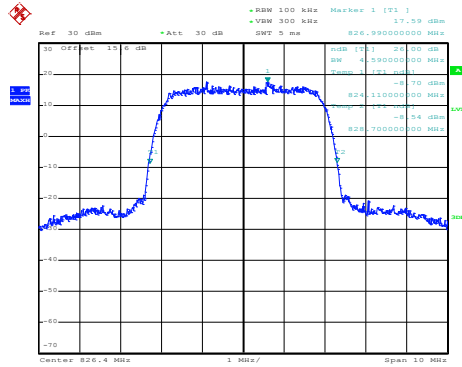
**26dB Bandwidth**

Mode	WCDMA Band V	WCDMA Band II
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.59	4.60
Middle CH	4.61	4.63
Highest CH	4.60	4.65



WCDMA Band V (RMC 12.2Kbps)

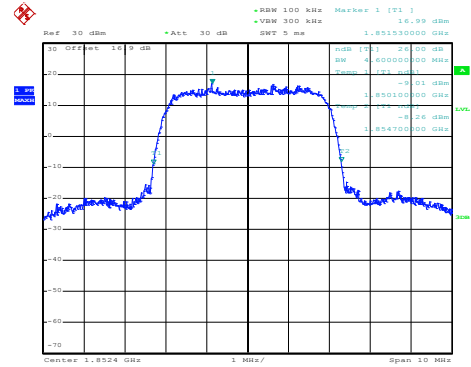
Lowest Channel



Date: 31.JAN.2019 13:53:12

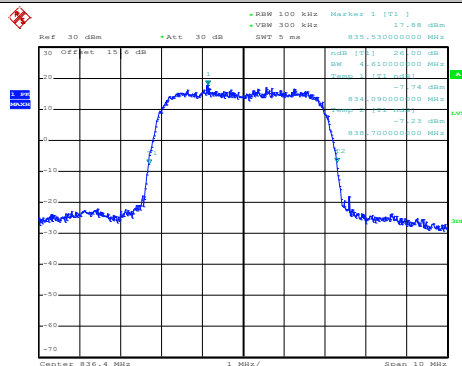
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



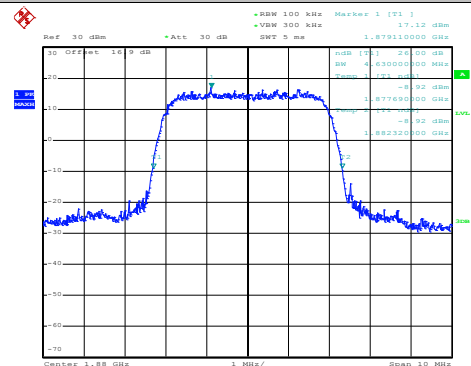
Date: 31.JAN.2019 13:38:24

Middle Channel



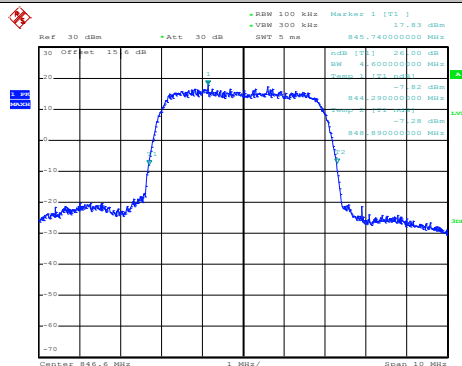
Date: 31.JAN.2019 13:53:51

Middle Channel



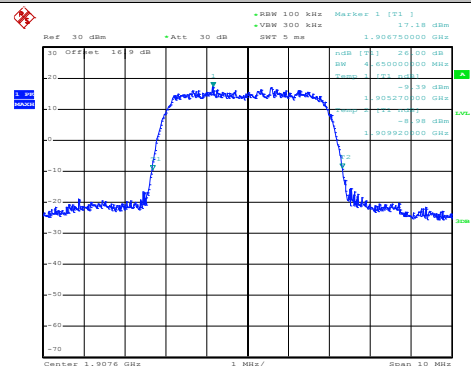
Date: 31.JAN.2019 13:39:04

Highest Channel



Date: 31.JAN.2019 13:54:27

Highest Channel



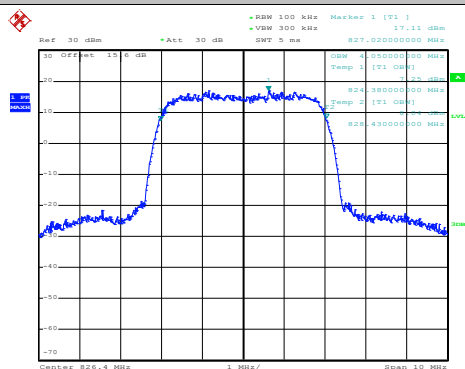
Date: 31.JAN.2019 13:39:42

**Occupied Bandwidth**

Mode	WCDMA Band V	WCDMA Band II
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.05	4.08
Middle CH	4.09	4.08
Highest CH	4.07	4.10

WCDMA Band V (RMC 12.2Kbps)

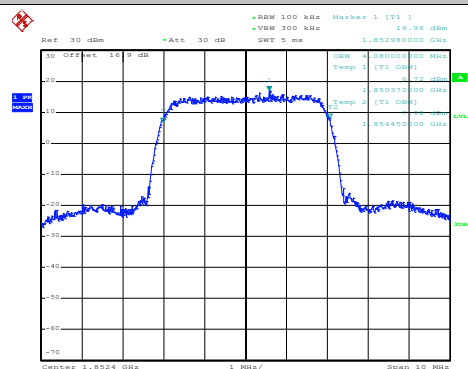
Lowest Channel



Date: 31.JAN.2019 13:55:08

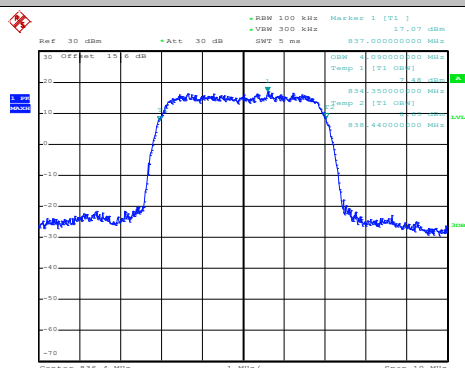
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



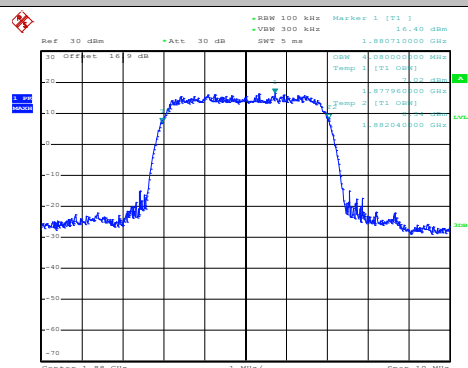
Date: 31.JAN.2019 13:40:31

Middle Channel



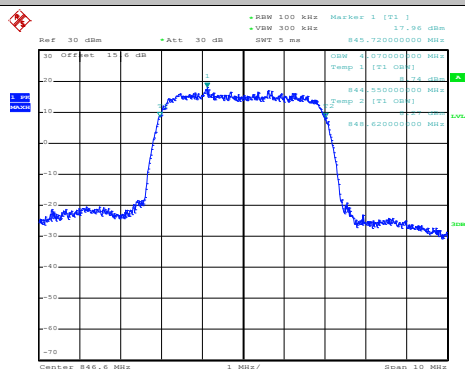
Date: 31.JAN.2019 13:55:48

Middle Channel



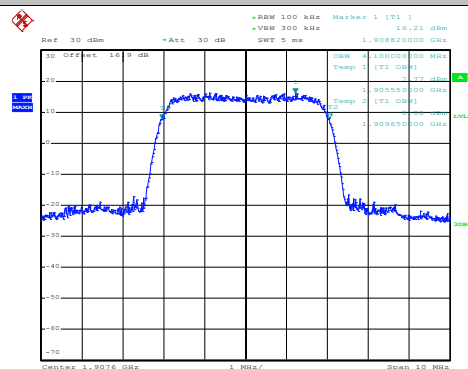
Date: 31.JAN.2019 13:41:09

Highest Channel



Date: 31.JAN.2019 13:56:24

Highest Channel



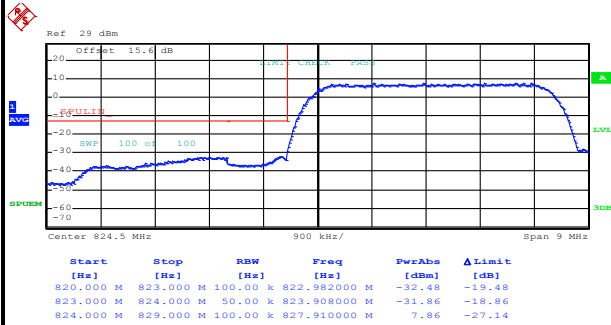
Date: 31.JAN.2019 13:41:49



Conducted Band Edge

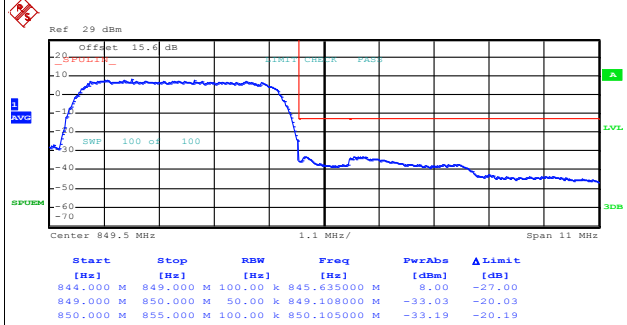
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 31.JAN.2019 13:59:18

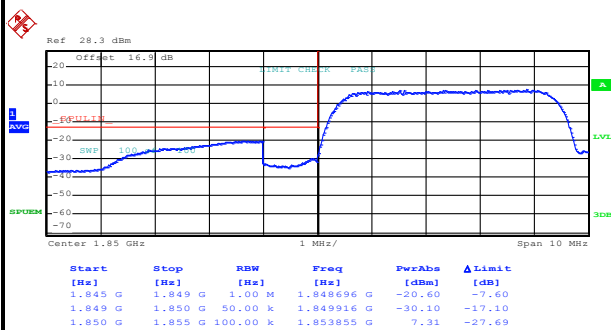
Highest Band Edge



Date: 31.JAN.2019 14:02:40

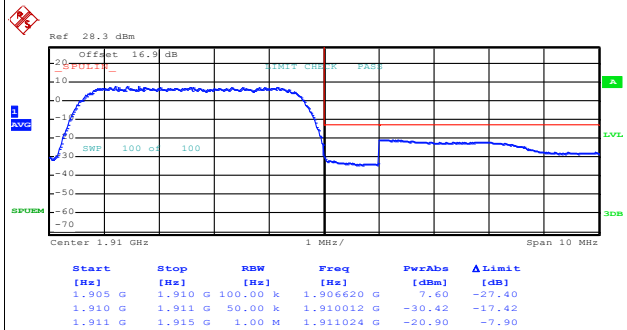
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Date: 31.JAN.2019 13:44:48

Highest Band Edge



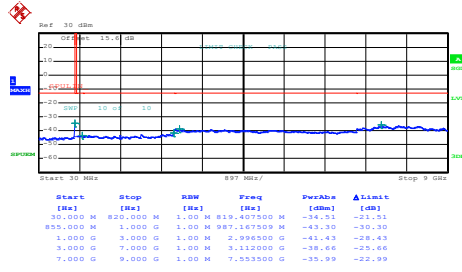
Date: 31.JAN.2019 13:47:41



Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

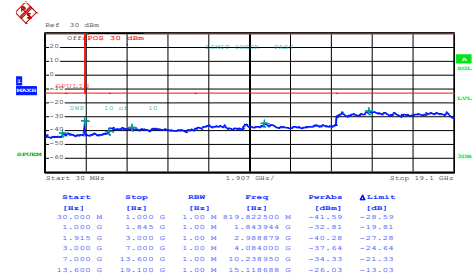
Lowest Channel



Date: 31.JAN.2019 14:03:44

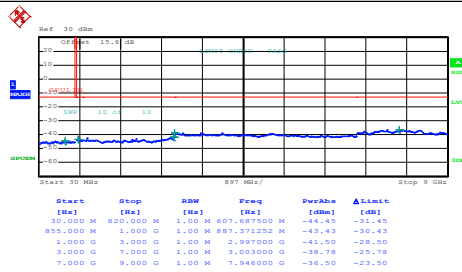
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



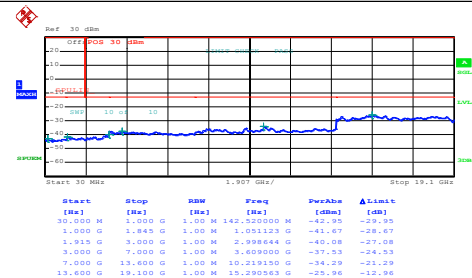
Date: 31.JAN.2019 13:48:43

Middle Channel



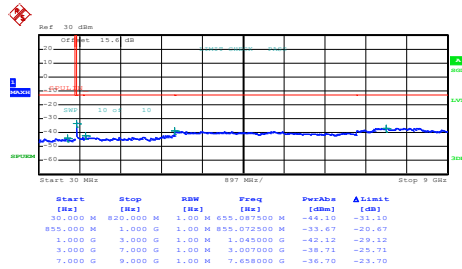
Date: 31.JAN.2019 14:04:45

Middle Channel



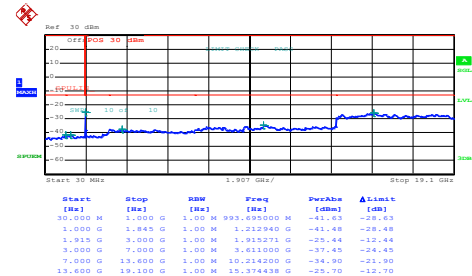
Date: 31.JAN.2019 13:49:38

Highest Channel



Date: 31.JAN.2019 14:05:45

Highest Channel



Date: 31.JAN.2019 13:50:32

**Frequency Stability**

Test Conditions Temperature (°C)	Middle Channel Voltage (Volt)	WCDMA Band V (RMC 12.2Kbps) Deviation (ppm)	Limit
			2.5ppm Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0072	
0	Normal Voltage	0.0096	
-10	Normal Voltage	0.0108	
-20	Normal Voltage	0.0132	
-30	Normal Voltage	0.0167	
20	Maximum Voltage	0.0108	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0072	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block.



<Ant. 2>

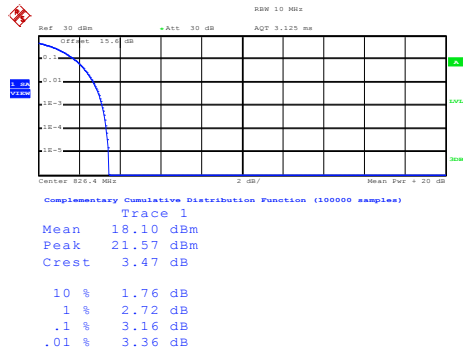
Peak-to-Average Ratio

Mode	WCDMA Band V	WCDMA Band II	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.16	3.60	PASS
Middle CH	3.40	3.24	
Highest CH	3.12	2.76	



WCDMA Band V (RMC 12.2Kbps)

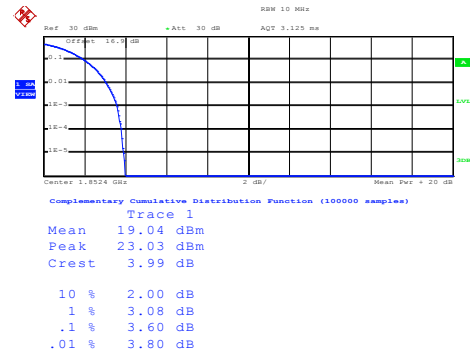
Lowest Channel



Date: 25.JAN.2019 20:36:24

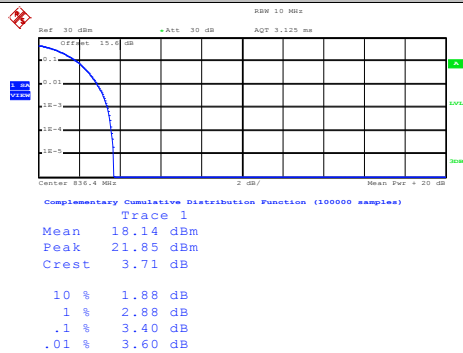
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



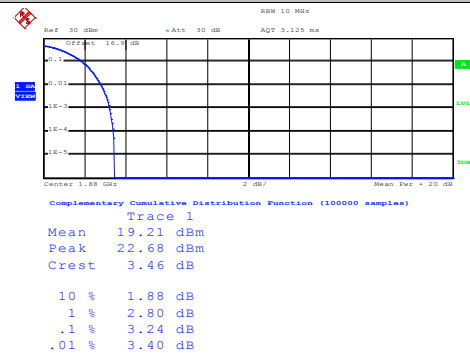
Date: 22.JAN.2019 16:35:52

Middle Channel



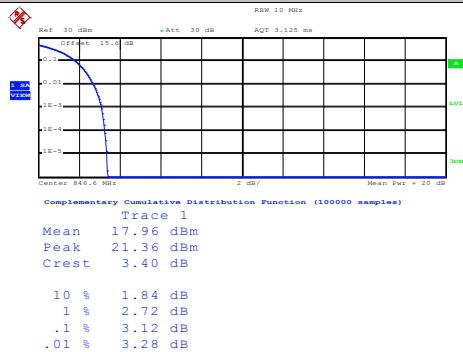
Date: 25.JAN.2019 20:36:40

Middle Channel



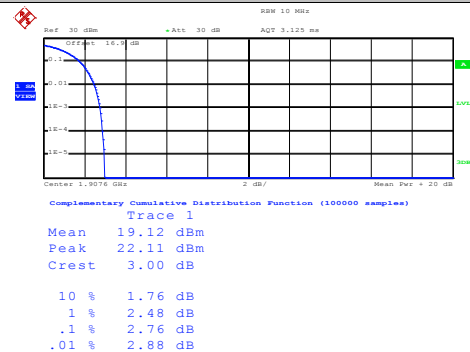
Date: 22.JAN.2019 16:36:23

Highest Channel



Date: 25.JAN.2019 20:36:56

Highest Channel



Date: 22.JAN.2019 16:36:45

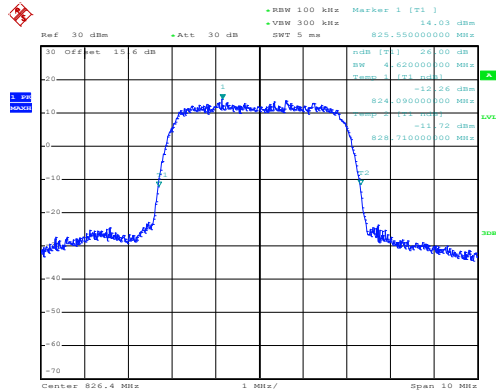
**26dB Bandwidth**

Mode	WCDMA Band V	WCDMA Band II
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.62	4.62
Middle CH	4.63	4.62
Highest CH	4.62	4.65



WCDMA Band V (RMC 12.2Kbps)

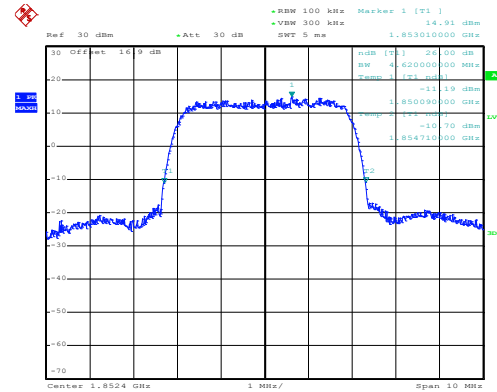
Lowest Channel



Date: 25.JAN.2019 20:29:51

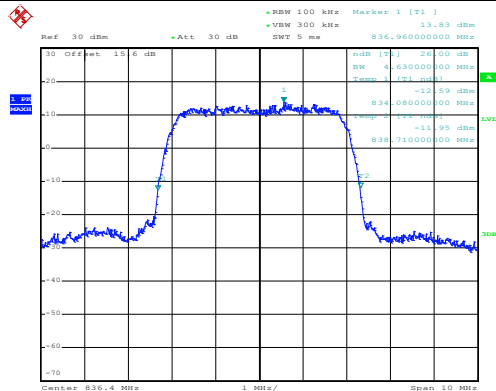
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



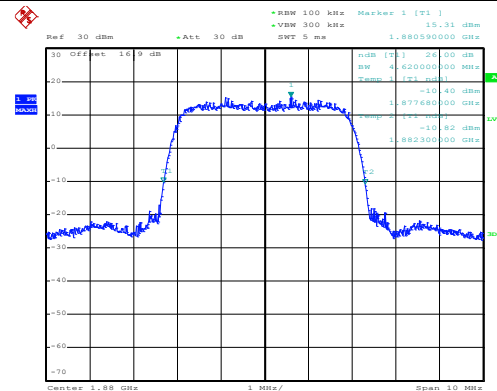
Date: 22.JAN.2019 16:22:06

Middle Channel



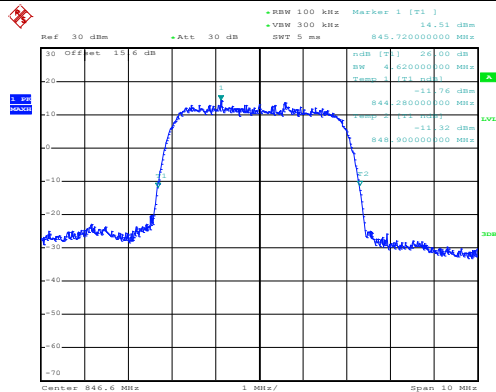
Date: 25.JAN.2019 20:30:27

Middle Channel



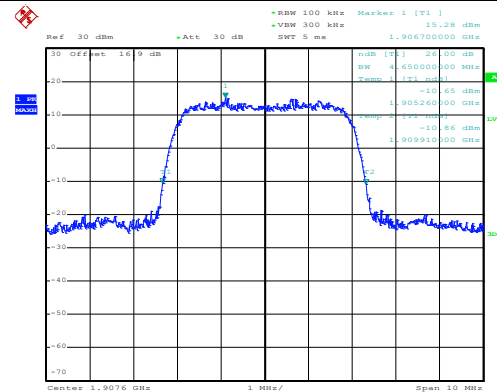
Date: 22.JAN.2019 16:22:41

Highest Channel



Date: 25.JAN.2019 20:31:02

Highest Channel



Date: 22.JAN.2019 16:23:19

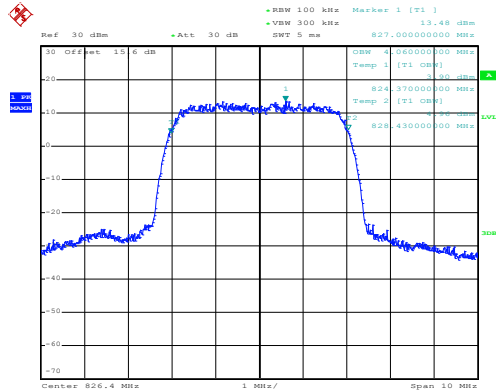
**Occupied Bandwidth**

Mode	WCDMA Band V	WCDMA Band II
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.06	4.08
Middle CH	4.07	4.09
Highest CH	4.09	4.09



WCDMA Band V (RMC 12.2Kbps)

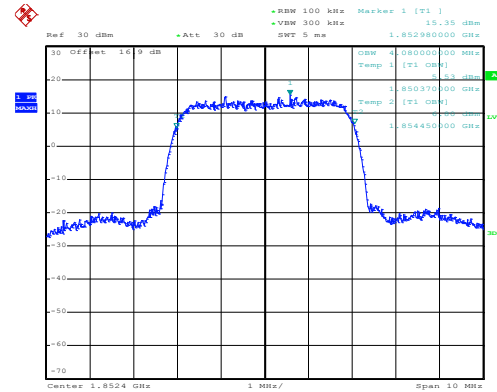
Lowest Channel



Date: 25.JAN.2019 20:31:44

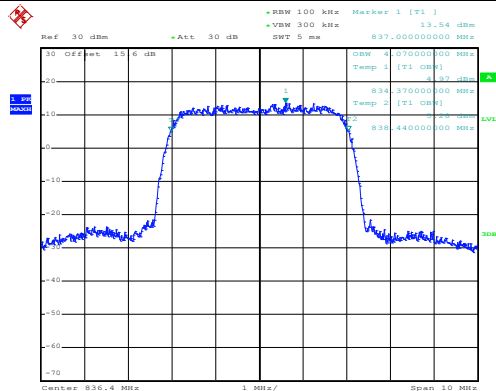
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



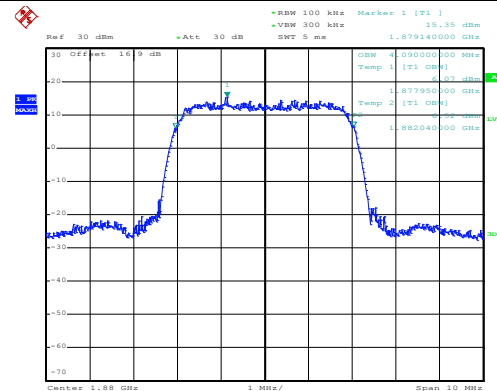
Date: 22.JAN.2019 16:24:06

Middle Channel



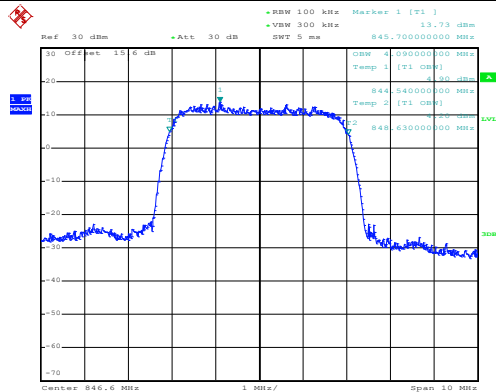
Date: 25.JAN.2019 20:32:19

Middle Channel



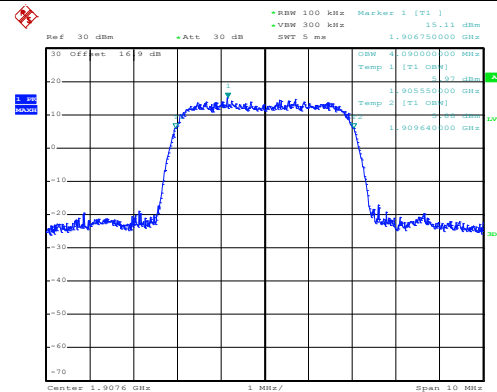
Date: 22.JAN.2019 16:24:47

Highest Channel



Date: 25.JAN.2019 20:32:52

Highest Channel



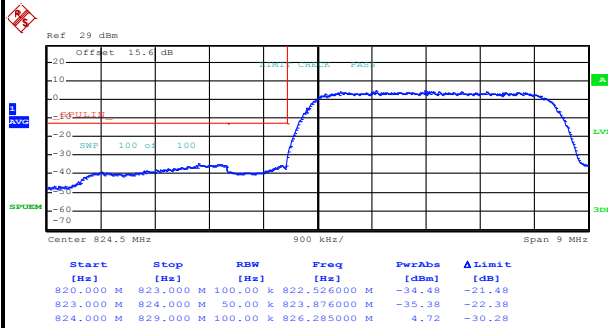
Date: 22.JAN.2019 16:25:34



Conducted Band Edge

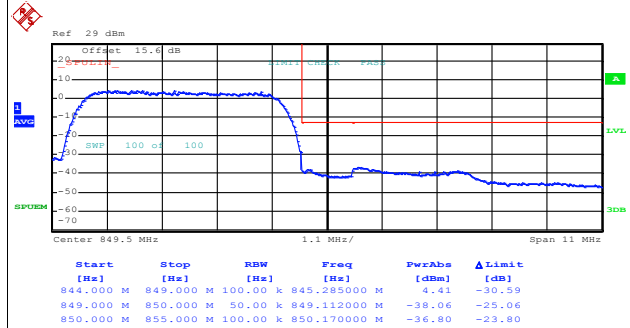
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 25.JAN.2019 20:39:43

Highest Band Edge

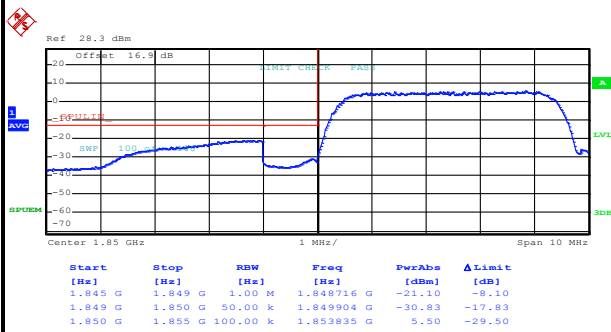


Date: 25.JAN.2019 20:44:13



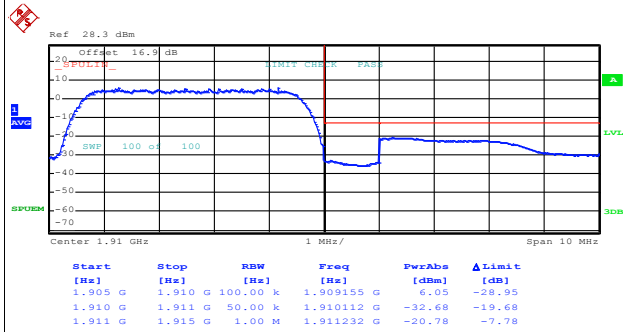
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Date: 22.JAN.2019 16:28:28

Highest Band Edge



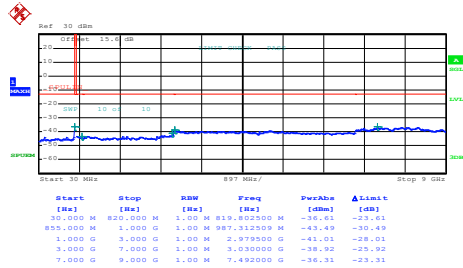
Date: 22.JAN.2019 16:32:16



Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

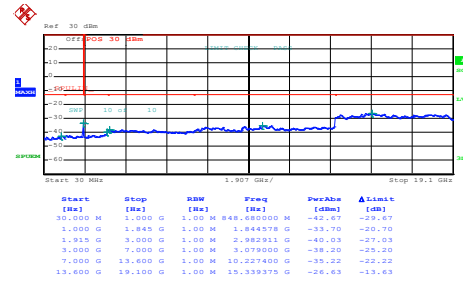
Lowest Channel



Date: 25.JAN.2019 20:33:50

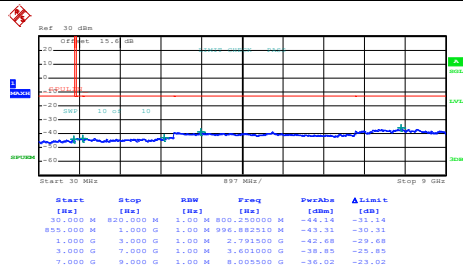
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



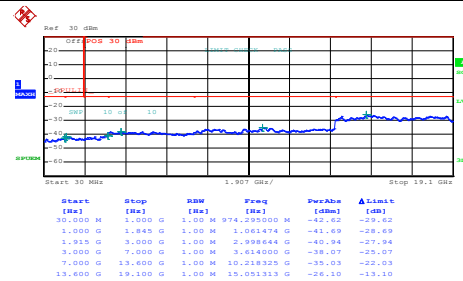
Date: 22.JAN.2019 16:33:20

Middle Channel



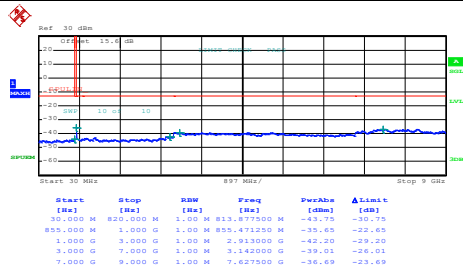
Date: 25.JAN.2019 20:34:48

Middle Channel



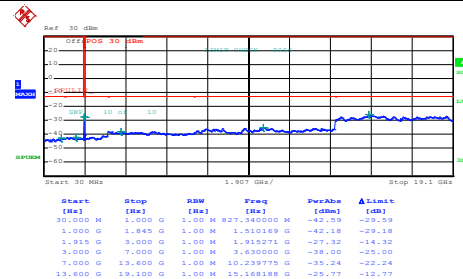
Date: 22.JAN.2019 16:34:26

Highest Channel



Date: 25.JAN.2019 20:35:38

Highest Channel



Date: 22.JAN.2019 16:35:25

**Frequency Stability**

Test Conditions Temperature (°C)	Middle Channel Voltage (Volt)	WCDMA Band V (RMC 12.2Kbps) Deviation (ppm)	Limit 2.5ppm Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0084	
-20	Normal Voltage	0.0155	
-30	Normal Voltage	0.0132	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0072	



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0043	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block.

**Appendix B. Test Results of ERP/EIRP and Radiated Test****ERP/EIRP****<Ant. 1>**

Channel	Mode	Conducted		ERP	
		Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	GSM850	31.61	1.4488	29.46	0.8831
Middle	GPRS class 8	31.72	1.4859	29.57	0.9057
Highest	(GT - LC = 0 dB)	31.68	1.4723	29.53	0.8974
Lowest	GSM850	25.36	0.3436	23.21	0.2094
Middle	EDGE class 8	25.17	0.3289	23.02	0.2004
Highest	(GT - LC = 0 dB)	25.00	0.3162	22.85	0.1928
Lowest	WCDMA Band V	22.09	0.1618	19.94	0.0986
Middle	RMC 12.2Kbps	22.03	0.1596	19.88	0.0973
Highest	(GT - LC = 0 dB)	22.00	0.1585	19.85	0.0966
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Conducted		EIRP	
		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900	28.82	0.7621	31.32	1.3552
Middle	GPRS class 8	28.73	0.7464	31.23	1.3274
Highest	(GT - LC = 2.5 dB)	28.70	0.7413	31.20	1.3183
Lowest	GSM1900	24.85	0.3055	27.35	0.5433
Middle	EDGE class 8	24.67	0.2931	27.17	0.5212
Highest	(GT - LC = 2.5 dB)	24.56	0.2858	27.06	0.5082
Lowest	WCDMA Band II	22.24	0.1675	24.74	0.2979
Middle	RMC 12.2Kbps	22.18	0.1652	24.68	0.2938
Highest	(GT - LC = 2.5 dB)	22.11	0.1626	24.61	0.2891
Limit	EIRP < 2W	Result		PASS	


<Ant. 2>

Channel	Mode	Conducted		ERP	
		Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	GSM850	31.18	1.3122	28.53	0.7129
Middle	GPRS class 8	31.25	1.3335	28.60	0.7244
Highest	(GT - LC = -0.5 dB)	31.20	1.3183	28.55	0.7161
Lowest	GSM850	25.45	0.3508	22.80	0.1905
Middle	EDGE class 8	25.27	0.3365	22.62	0.1828
Highest	(GT - LC = -0.5 dB)	25.12	0.3251	22.47	0.1766
Lowest	WCDMA Band V	21.74	0.1493	19.09	0.0811
Middle	RMC 12.2Kbps	21.86	0.1535	19.21	0.0834
Highest	(GT - LC = -0.5 dB)	21.92	0.1556	19.27	0.0845
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Conducted		EIRP	
		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900	28.04	0.6368	29.54	0.8995
Middle	GPRS class 8	28.05	0.6383	29.55	0.9016
Highest	(GT - LC = 1.5 dB)	28.04	0.6368	29.54	0.8995
Lowest	GSM1900	24.45	0.2786	25.95	0.3936
Middle	EDGE class 8	24.02	0.2523	25.52	0.3565
Highest	(GT - LC = 1.5 dB)	24.05	0.2541	25.55	0.3589
Lowest	WCDMA Band II	21.58	0.1439	23.08	0.2032
Middle	RMC 12.2Kbps	21.71	0.1483	23.21	0.2094
Highest	(GT - LC = 1.5 dB)	21.75	0.1496	23.25	0.2113
Limit	EIRP < 2W	Result		PASS	

**Radiated Spurious Emission**

<Ant. 1>

GPRS 850

GPRS 850									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-40.53	-13	-27.53	-49.27	-46.26	0.81	8.69	H
	2472	-46.49	-13	-33.49	-60.07	-54.06	1.04	10.76	H
	3296	-61.79	-13	-48.79	-74.4	-70.39	1.10	11.85	H
	4120	-46.93	-13	-33.93	-64.96	-56.08	1.38	12.68	H
	1648	-39.62	-13	-26.62	-48.21	-45.35	0.81	8.69	V
	2472	-45.27	-13	-32.27	-58.99	-52.84	1.04	10.76	V
	3296	-58.51	-13	-45.51	-74.49	-67.11	1.10	11.85	V
	4120	-46.01	-13	-33.01	-64.75	-55.16	1.38	12.68	V
Middle	1672	-43.43	-13	-30.43	-52.25	-49.25	0.82	8.79	H
	2512	-42.72	-13	-29.72	-56.36	-50.33	1.05	10.81	H
	3344	-58.74	-13	-45.74	-74.12	-67.45	1.10	11.96	H
	4184	-42.99	-13	-29.99	-61.12	-52.15	1.35	12.66	H
	1672	-43.35	-13	-30.35	-52.02	-49.17	0.82	8.79	V
	2512	-43.14	-13	-30.14	-56.86	-50.75	1.05	10.81	V
	3344	-58.27	-13	-45.27	-74.15	-66.98	1.10	11.96	V
	4184	-42.28	-13	-29.28	-61.11	-51.44	1.35	12.66	V
Highest	1696	-43.20	-13	-30.20	-52.12	-49.10	0.83	8.88	H
	2544	-42.68	-13	-29.68	-56.38	-50.31	1.06	10.84	H
	3392	-58.89	-13	-45.89	-74.01	-67.70	1.10	12.06	H
	4248	-45.23	-13	-32.23	-63.6	-54.41	1.32	12.65	H
	1696	-43.66	-13	-30.66	-52.42	-49.56	0.83	8.88	V
	2544	-40.86	-13	-27.86	-54.65	-48.49	1.06	10.84	V
	3392	-57.77	-13	-44.77	-73.53	-66.58	1.10	12.06	V
	4248	-43.55	-13	-30.55	-62.69	-52.73	1.32	12.65	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**EDGE 850**

Channel	EDGE 850								
	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-40.13	-13	-27.13	-48.87	-45.86	0.81	8.69	H
	2472	-47.39	-13	-34.39	-60.97	-54.96	1.04	10.76	H
	2396	-58.69	-13	-45.69	-74.3	-66.17	1.02	10.65	H
	4120	-47.77	-13	-34.77	-65.8	-56.92	1.38	12.68	H
	1648	-39.33	-13	-26.33	-47.92	-45.06	0.81	8.69	V
	2472	-72.65	-13	-59.65	-60.65	-80.22	1.04	10.76	V
	2396	-58.44	-13	-45.44	-74.42	-65.92	1.02	10.65	V
	4120	-46.65	-13	-33.65	-65.39	-55.80	1.38	12.68	V
Middle	1672	-41.09	-13	-28.09	-49.91	-46.91	0.82	8.79	H
	2512	-44.17	-13	-31.17	-57.81	-51.78	1.05	10.81	H
	3344	-58.96	-13	-45.96	-74.34	-67.67	1.10	11.96	H
	4184	-46.50	-13	-33.50	-64.63	-55.66	1.35	12.66	H
	1672	-42.26	-13	-29.26	-50.93	-48.08	0.82	8.79	V
	2512	-44.17	-13	-31.17	-57.89	-51.78	1.05	10.81	V
	3344	-58.49	-13	-45.49	-74.37	-67.20	1.10	11.96	V
	4184	-45.90	-13	-32.90	-64.73	-55.06	1.35	12.66	V
Highest	1696	-43.42	-13	-30.42	-52.34	-49.32	0.83	8.88	H
	2544	-42.98	-13	-29.98	-56.68	-50.61	1.06	10.84	H
	3392	-59.32	-13	-46.32	-74.44	-68.13	1.10	12.06	H
	4248	-43.06	-13	-30.06	-61.43	-52.24	1.32	12.65	H
	1696	-42.17	-13	-29.17	-50.93	-48.07	0.83	8.88	V
	2544	-41.17	-13	-28.17	-54.96	-48.80	1.06	10.84	V
	3392	-58.35	-13	-45.35	-74.11	-67.16	1.10	12.06	V
	4248	-44.95	-13	-31.95	-64.09	-54.13	1.32	12.65	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**WCDMA 850**

Channel	WCDMA 850								
	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1652	-63.88	-13	-50.88	-72.64	-69.62	0.82	8.71	H
	2480	-59.71	-13	-46.71	-73.29	-67.29	1.04	10.77	H
	3305	-58.72	-13	-45.72	-74.29	-67.34	1.10	11.87	H
	1652	-63.41	-13	-50.41	-72.02	-69.15	0.82	8.71	V
	2480	-59.75	-13	-46.75	-73.46	-67.33	1.04	10.77	V
	3305	-58.35	-13	-45.35	-74.31	-66.97	1.10	11.87	V
Middle	1672	-61.93	-13	-48.93	-70.75	-67.75	0.82	8.79	H
	2508	-59.33	-13	-46.33	-72.96	-66.94	1.05	10.81	H
	3344	-58.63	-13	-45.63	-74.01	-67.34	1.10	11.96	H
	1672	-62.05	-13	-49.05	-70.72	-67.87	0.82	8.79	V
	2508	-59.24	-13	-46.24	-72.94	-66.85	1.05	10.81	V
	3344	-58.38	-13	-45.38	-74.26	-67.09	1.10	11.96	V
Highest	1696	-62.61	-13	-49.61	-71.53	-68.51	0.83	8.88	H
	2540	-59.94	-13	-46.94	-73.64	-67.57	1.05	10.83	H
	3386	-58.83	-13	-45.83	-73.97	-67.63	1.10	12.05	H
	1696	-63.03	-13	-50.03	-71.78	-68.93	0.83	8.88	V
	2540	-59.99	-13	-46.99	-73.76	-67.62	1.05	10.83	V
	3386	-58.12	-13	-45.12	-73.89	-66.92	1.10	12.05	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**GPRS 1900**

Channel	GPRS 1900								
	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-52.59	-13	-39.59	-70.15	-63.82	1.23	12.46	H
	5548	-37.95	-13	-24.95	-59.56	-49.44	1.80	13.29	H
	7403	-50.66	-13	-37.66	-76.69	-59.46	2.43	11.24	H
	3700	-49.35	-13	-36.35	-67.43	-60.58	1.23	12.46	V
	5548	-41.95	-13	-28.95	-64.36	-53.44	1.80	13.29	V
	7403	-50.97	-13	-37.97	-76.73	-59.77	2.43	11.24	V
Middle	3763	-54.74	-13	-41.74	-72.37	-65.98	1.27	12.51	H
	5639	-41.44	-13	-28.44	-63.19	-52.86	1.85	13.27	H
	7529	-48.55	-13	-35.55	-75.14	-57.17	2.50	11.12	H
	3763	-48.07	-13	-35.07	-66.31	-59.31	1.27	12.51	V
	5639	-41.84	-13	-28.84	-64.25	-53.26	1.85	13.27	V
	7529	-48.81	-13	-35.81	-75.24	-57.43	2.50	11.12	V
Highest	3819	-51.16	-13	-38.16	-68.88	-62.41	1.31	12.56	H
	5730	-38.14	-13	-25.14	-60.06	-49.49	1.90	13.25	H
	7641	-49.89	-13	-36.89	-75.95	-58.48	2.59	11.18	H
	3819	-45.23	-13	-32.23	-63.63	-56.48	1.31	12.56	V
	5730	-41.52	-13	-28.52	-64.1	-52.87	1.90	13.25	V
	7641	-50.04	-13	-37.04	-76.18	-58.63	2.59	11.18	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**EDGE 1900**

Channel	EDGE 1900								
	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-48.64	-13	-35.64	-66.2	-59.87	1.23	12.46	H
	5548	-44.00	-13	-31.00	-65.61	-55.49	1.80	13.29	H
	7403	-50.35	-13	-37.35	-76.38	-59.15	2.43	11.24	H
	3700	-55.46	-13	-42.46	-43.46	-66.69	1.23	12.46	V
	5548	-43.86	-13	-30.86	-31.86	-55.35	1.80	13.29	V
	7403	-50.91	-13	-37.91	-38.91	-59.71	2.43	11.24	V
Middle	3763	-48.18	-13	-35.18	-65.81	-59.42	1.27	12.51	H
	5639	-43.09	-13	-30.09	-64.84	-54.51	1.85	13.27	H
	7529	-48.64	-13	-35.64	-75.23	-57.26	2.50	11.12	H
	3763	-53.44	-13	-40.44	-71.68	-64.68	1.27	12.51	V
	5639	-43.06	-13	-30.06	-65.47	-54.48	1.85	13.27	V
	7529	-48.67	-13	-35.67	-75.1	-57.29	2.50	11.12	V
Highest	3819	-44.63	-13	-31.63	-62.35	-55.88	1.31	12.56	H
	5730	-48.74	-13	-35.74	-70.66	-60.09	1.90	13.25	H
	7641	-50.21	-13	-37.21	-76.27	-58.80	2.59	11.18	H
	3819	-51.33	-13	-38.33	-69.73	-62.58	1.31	12.56	V
	5730	-45.71	-13	-32.71	-68.29	-57.06	1.90	13.25	V
	7641	-50.21	-13	-37.21	-76.35	-58.80	2.59	11.18	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**WCDMA 1900**

Channel	WCDMA 1900								
	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3705	-56.46	-13	-43.46	-74.03	-67.69	1.24	12.46	H
	5557	-53.74	-13	-40.74	-75.36	-65.23	1.80	13.29	H
	7410	-50.67	-13	-37.67	-76.77	-59.46	2.44	11.23	H
	3705	-56.27	-13	-43.27	-74.36	-67.50	1.24	12.46	V
	5557	-53.32	-13	-40.32	-75.72	-64.81	1.80	13.29	V
	7410	-50.99	-13	-37.99	-76.82	-59.78	2.44	11.23	V
Middle	3760	-57.15	-13	-44.15	-74.78	-68.39	1.27	12.51	H
	5640	-54.46	-13	-41.46	-76.21	-65.88	1.85	13.27	H
	7520	-48.78	-13	-35.78	-75.44	-57.40	2.50	11.11	H
	3760	-56.28	-13	-43.28	-74.51	-67.52	1.27	12.51	V
	5640	-54.12	-13	-41.12	-76.53	-65.54	1.85	13.27	V
	7520	-48.70	-13	-35.70	-75.18	-57.32	2.50	11.11	V
Highest	3815	-56.50	-13	-43.50	-74.21	-67.74	1.31	12.55	H
	5723	-53.59	-13	-40.59	-75.49	-64.95	1.90	13.26	H
	7630	-50.36	-13	-37.36	-76.41	-58.96	2.58	11.18	H
	3815	-55.90	-13	-42.90	-74.29	-67.14	1.31	12.55	V
	5723	-52.92	-13	-39.92	-75.48	-64.28	1.90	13.26	V
	7630	-50.20	-13	-37.20	-76.32	-58.80	2.58	11.18	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



<Ant. 2>

Part22H GSM 850

GSM 850									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-40.24	-13	-27.24	-48.98	-45.97	0.81	8.69	H
	2472	-46.16	-13	-33.16	-59.74	-53.73	1.04	10.76	H
	3296	-58.83	-13	-45.83	-74.44	-67.43	1.10	11.85	H
	4120	-45.84	-13	-32.84	-63.87	-54.99	1.38	12.68	H
	1648	-39.02	-13	-26.02	-47.61	-44.75	0.81	8.69	V
	2472	-46.24	-13	-33.24	-59.96	-53.81	1.04	10.76	V
	3296	-58.79	-13	-45.79	-74.77	-67.39	1.10	11.85	V
	4120	-46.01	-13	-33.01	-64.75	-55.16	1.38	12.68	V
Middle	1672	-43.43	-13	-30.43	-52.25	-49.25	0.82	8.79	H
	25112	-42.72	-13	-29.72	-56.36	-44.15	4.92	8.50	H
	3344	-58.74	-13	-45.74	-74.12	-67.45	1.10	11.96	H
	4184	-42.99	-13	-29.99	-61.12	-52.15	1.35	12.66	H
	1672	-43.35	-13	-30.35	-52.02	-49.17	0.82	8.79	V
	25112	-43.14	-13	-30.14	-56.86	-44.57	4.92	8.50	V
	3344	-58.27	-13	-45.27	-74.15	-66.98	1.10	11.96	V
	4184	-42.28	-13	-29.28	-61.11	-51.44	1.35	12.66	V
Highest	1696	-44.71	-13	-31.71	-53.63	-50.61	0.83	8.88	H
	2544	-40.49	-13	-27.49	-54.19	-48.12	1.06	10.84	H
	3392	-59.26	-13	-46.26	-74.38	-68.07	1.10	12.06	H
	4248	-43.97	-13	-30.97	-62.34	-53.15	1.32	12.65	H
	1696	-43.03	-13	-30.03	-51.79	-48.93	0.83	8.88	V
	2544	-39.88	-13	-26.88	-53.67	-47.51	1.06	10.84	V
	3392	-58.53	-13	-45.53	-74.29	-67.34	1.10	12.06	V
	4248	-42.38	-13	-29.38	-61.52	-51.56	1.32	12.65	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**Part22H EDGE 850**

Channel	EDGE 850								
	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-38.75	-13	-25.75	-47.49	-44.48	0.81	8.69	H
	2472	-44.51	-13	-31.51	-58.09	-52.08	1.04	10.76	H
	3296	-58.96	-13	-45.96	-74.57	-67.56	1.10	11.85	H
	4120	-48.40	-13	-35.40	-66.43	-57.55	1.38	12.68	H
	1648	-40.28	-13	-27.28	-48.87	-46.01	0.81	8.69	V
	2472	-44.12	-13	-31.12	-57.84	-51.69	1.04	10.76	V
	3296	-58.49	-13	-45.49	-74.47	-67.09	1.10	11.85	V
	4120	-46.48	-13	-33.48	-65.22	-55.63	1.38	12.68	V
Middle	1672	-41.96	-13	-28.96	-50.78	-47.78	0.82	8.79	H
	2512	-47.59	-13	-34.59	-61.23	-55.20	1.05	10.81	H
	3344	-58.57	-13	-45.57	-73.95	-67.28	1.10	11.96	H
	4184	-43.97	-13	-30.97	-62.1	-53.13	1.35	12.66	H
	1672	-41.39	-13	-28.39	-50.06	-47.21	0.82	8.79	V
	2512	-48.57	-13	-35.57	-62.29	-56.18	1.05	10.81	V
	3344	-58.00	-13	-45.00	-73.88	-66.71	1.10	11.96	V
	4184	-43.08	-13	-30.08	-61.91	-52.24	1.35	12.66	V
Highest	1696	-42.17	-13	-29.17	-51.09	-48.07	0.83	8.88	H
	2544	-45.55	-13	-32.55	-59.25	-53.18	1.06	10.84	H
	3392	-58.95	-13	-45.95	-74.07	-67.76	1.10	12.06	H
	4248	-45.77	-13	-32.77	-64.14	-54.95	1.32	12.65	H
	1696	-42.41	-13	-29.41	-51.17	-48.31	0.83	8.88	V
	2544	-49.05	-13	-36.05	-62.84	-56.68	1.06	10.84	V
	3392	-58.32	-13	-45.32	-74.08	-67.13	1.10	12.06	V
	4248	-44.63	-13	-31.63	-63.77	-53.81	1.32	12.65	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**Part22H WCDMA 850**

Channel	WCDMA 850								
	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1652	-63.76	-13	-50.76	-72.52	-69.50	0.82	8.71	H
	2480	-58.73	-13	-45.73	-72.31	-66.31	1.04	10.77	H
	3305	-58.55	-13	-45.55	-74.12	-67.17	1.10	11.87	H
	1652	-63.81	-13	-50.81	-72.42	-69.55	0.82	8.71	V
	2480	-58.78	-13	-45.78	-72.49	-66.36	1.04	10.77	V
	3305	-58.74	-13	-45.74	-74.7	-67.36	1.10	11.87	V
Middle	1672	-62.17	-13	-49.17	-70.99	-67.99	0.82	8.79	H
	2504	-59.48	-13	-46.48	-73.1	-67.08	1.05	10.80	H
	3344	-58.61	-13	-45.61	-73.99	-67.32	1.10	11.96	H
	1672	-62.86	-13	-49.86	-71.53	-68.68	0.82	8.79	V
	2504	-59.02	-13	-46.02	-72.72	-66.62	1.05	10.80	V
	3344	-58.08	-13	-45.08	-73.96	-66.79	1.10	11.96	V
Highest	1696	-63.40	-13	-50.40	-72.32	-69.30	0.83	8.88	H
	2540	-60.12	-13	-47.12	-73.82	-67.75	1.05	10.83	H
	3386	-58.59	-13	-45.59	-73.73	-67.39	1.10	12.05	H
	1696	-63.81	-13	-50.81	-72.57	-69.71	0.83	8.88	V
	2540	-59.64	-13	-46.64	-73.43	-67.27	1.05	10.83	V
	3386	-58.36	-13	-45.36	-74.13	-67.16	1.10	12.05	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**Part24E GPRS 1900**

GPRS 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-56.01	-13	-43.01	-73.57	-67.24	1.23	12.46	H
	5548	-42.45	-13	-29.45	-64.06	-53.94	1.80	13.29	H
	7403	-43.69	-13	-30.69	-76.72	-52.49	2.43	11.24	H
	3700	-50.31	-13	-37.31	-68.39	-61.54	1.23	12.46	V
	5548	-43.53	-13	-30.53	-65.94	-55.02	1.80	13.29	V
	7403	-50.39	-13	-37.39	-76.15	-59.19	2.43	11.24	V
Middle	3763	-53.33	-13	-40.33	-70.96	-64.57	1.27	12.51	H
	5639	-32.76	-13	-19.76	-62.35	-44.18	1.85	13.27	H
	7529	-48.78	-13	-35.78	-75.37	-57.40	2.50	11.12	H
	3763	-50.72	-13	-37.72	-68.96	-61.96	1.27	12.51	V
	5639	-44.50	-13	-31.50	-66.91	-55.92	1.85	13.27	V
	7529	-48.84	-13	-35.84	-75.27	-57.46	2.50	11.12	V
Highest	3819	-51.11	-13	-38.11	-68.83	-62.36	1.31	12.56	H
	5730	-40.69	-13	-27.69	-62.61	-52.04	1.90	13.25	H
	7641	-50.17	-13	-37.17	-76.23	-58.76	2.59	11.18	H
	3819	-43.86	-13	-30.86	-62.26	-55.11	1.31	12.56	V
	5730	-41.74	-13	-28.74	-64.32	-53.09	1.90	13.25	V
	7641	-50.23	-13	-37.23	-76.37	-58.82	2.59	11.18	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**Part24E EDGE 1900**

Channel	EDGE 1900								
	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-56.20	-13	-43.20	-73.76	-67.43	1.23	12.46	H
	5548	-41.28	-13	-28.28	-62.89	-52.77	1.80	13.29	H
	7403	-50.45	-13	-37.45	-76.48	-59.25	2.43	11.24	H
	3700	-51.03	-13	-38.03	-69.11	-62.26	1.23	12.46	V
	5548	-44.44	-13	-31.44	-66.85	-55.93	1.80	13.29	V
	7403	-50.91	-13	-37.91	-76.67	-59.71	2.43	11.24	V
Middle	3763	-54.42	-13	-41.42	-72.05	-65.66	1.27	12.51	H
	5639	-39.78	-13	-26.78	-61.53	-51.20	1.85	13.27	H
	7529	-48.24	-13	-35.24	-74.84	-56.86	2.50	11.12	H
	3763	-49.76	-13	-36.76	-68.02	-61.00	1.27	12.51	V
	5639	-43.62	-13	-30.62	-66.03	-55.04	1.85	13.27	V
	7529	-48.88	-13	-35.88	-75.32	-57.50	2.50	11.12	V
Highest	3819	-50.88	-13	-37.88	-68.59	-62.13	1.31	12.56	H
	5730	-38.65	-13	-25.65	-60.58	-50.00	1.90	13.25	H
	7641	-50.41	-13	-37.41	-76.49	-59.00	2.59	11.18	H
	3819	-44.95	-13	-31.95	-63.35	-56.20	1.31	12.56	V
	5730	-42.05	-13	-29.05	-64.65	-53.40	1.90	13.25	V
	7641	-50.12	-13	-37.12	-76.27	-58.71	2.59	11.18	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**Part24E WCDMA 1900**

Channel	WCDMA 1900								
	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3705	-55.52	-13	-42.52	-73.09	-66.75	1.24	12.46	H
	5557	-53.57	-13	-40.57	-75.19	-65.06	1.80	13.29	H
	7410	-50.80	-13	-37.80	-76.9	-59.59	2.44	11.23	H
	3705	-56.46	-13	-43.46	-74.55	-67.69	1.24	12.46	V
	5557	-53.04	-13	-40.04	-75.44	-64.53	1.80	13.29	V
	7410	-50.94	-13	-37.94	-76.77	-59.73	2.44	11.23	V
Middle	3760	-56.64	-13	-43.64	-74.27	-67.88	1.27	12.51	H
	5640	-54.59	-13	-41.59	-76.34	-66.01	1.85	13.27	H
	7520	-48.32	-13	-35.32	-74.98	-56.94	2.50	11.11	H
	3760	-55.34	-13	-42.34	-73.57	-66.58	1.27	12.51	V
	5640	-54.13	-13	-41.13	-76.54	-65.55	1.85	13.27	V
	7520	-48.91	-13	-35.91	-75.39	-57.53	2.50	11.11	V
Highest	3815	-56.08	-13	-43.08	-73.79	-67.32	1.31	12.55	H
	5723	-53.57	-13	-40.57	-75.47	-64.93	1.90	13.26	H
	7630	-50.45	-13	-37.45	-76.5	-59.05	2.58	11.18	H
	3815	-55.49	-13	-42.49	-73.88	-66.73	1.31	12.55	V
	5723	-53.14	-13	-40.14	-75.7	-64.50	1.90	13.26	V
	7630	-50.44	-13	-37.44	-76.56	-59.04	2.58	11.18	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

————THE END————