



Full

TEST REPORT

No. I17D00153-SRD05

For

Client : Mobiwire SAS

Production : 4G Smartphone

Model Name : MobiWire Waneta, ALTICE S60

FCC ID: QPN-WANETA

Hardware Version: V01

Software Version: WE552_ALTICE_S60

Issued date: 2017-07-05

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of ECIT Shanghai.

Test Laboratory:

ECIT Shanghai, East China Institute of Telecommunications

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Revision Version

Report Number	Revision	Date	Memo
I17D00153-SRD05	00	2017-07-05	Initial creation of test report

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1. Test Laboratory

1.1. Testing Location

Company Name:	ECIT Shanghai, East China Institute of Telecommunications
Address:	7-8F, G Area, No. 668, Beijing East Road, Huangpu District, Shanghai, P. R. China
Postal Code:	200001
Telephone:	(+86)-021-63843300
Fax:	(+86)-021-63843301
FCC Registration NO.:	489729

1.2. Testing Environment

Normal Temperature:	15-35°C
Extreme Temperature:	-10/+55°C
Relative Humidity:	20-75%

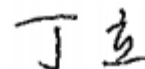
1.3. Project data

Project Leader:	Zhou Yan
Testing Start Date:	2017-06-25
Testing End Date:	2017-07-03

1.4. Signature



Yang Dejun
(Prepared this test report)



Ding Li
(Reviewed this test report)



Zheng Zhongbin
Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: Mobiwire SAS
Address: 79 AVENUE FRANCOIS ARAGO 92017 NANTERRE CEDEX
 France.
Telephone: +33 178 14 09 33
Email: alexandre.minazio@mobiwire.com

2.2. Manufacturer Information

Company Name: Mobiwire SAS
Address: 79 AVENUE FRANCOIS ARAGO 92017 NANTERRE CEDEX
 France.
Telephone: +33 178 14 09 33
Email: alexandre.minazio@mobiwire.com

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	4G Smartphone
Model name	MobiWire Waneta, ALTICE S60
FCC ID	QPN-WANETA
Frequency	GSM850/900/1800/1900; WCDMA Band II/V
Extreme Temperature	-10/+55°C
Nominal Voltage	3.8V
Extreme High Voltage	4.35V
Extreme Low Voltage	3.4V

Note: Photographs of EUT are shown in ANNEX A of this test report.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
N01	N/A	V01	WE552_ALTICE_S60	2017-06-22

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	RF cable	---
AE2	Dummy Battery	---

*AE ID: is used to identify the test sample in the lab internally.

3.4. Statements

The product name MobiWire Waneta, ALTICE S60, supporting GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA/HSPA+/WLAN/BT/BLE/GPS, manufactured by Mobiwire SAS, is a variant product for testing. According to the variant description, all the test results please refer to I17D00122-SRD05 which is the test report for the initial product of MobiWire Waneta+, ALTICE S70.

ECIT has verified that the compliance of the tested device specified in section 5 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 5 of this test report.

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	2014
FCC Part 22	PUBLIC MOBILE SERVICES	2014
ANSI-TIA-603-D	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2010
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

5. SUMMARY OF TEST RESULTS

Item	Test items	FCC rules	result
1	Output Power	2.1046/22.913(a)/24.232(c)	Pass
2	Peak-to-Average Ratio	24.232(d)	Pass
3	99%Occupied Bandwidth	2.1049(h)(i)/ 22.917(b)	Pass
4	-26dB Emission Bandwidth	22.917(b)/§24.238(b)	Pass
5	Band Edge at antenna terminals	22.917(a)/24.238(a)	Pass
6	Frequency stability	2.1055/24.235	Pass
7	Conducted Spurious mission	2.1053/22.917(a)/24.238(a)	Pass
8	Emission Limit	2.1051/22.917/24.238/22.913/24.232	Pass

6. Test Equipment Utilized

Climate chamber

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Cal.interval
1	Climate chamber	SH-641	92012011	ESPEC	2016-01-06	2 Year

Radiated emission test system

The test equipment and ancillaries used are as follows.

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Cal.interval
1	Universal Radio Communication Tester	CMU200	123123	R&S	2017-05-11	1 Year
2	EMI Test Receiver	ESU40	100307	R&S	2017-05-11	1 Year
3	TRILOG Broadband Antenna	VULB9163	VULB9163-515	Schwarzbeck	2017-02-25	3 Year
4	Double-ridged Waveguide Antenna	ETS-3117	00135890	ETS	2017-01-11	3 Year
5	2-Line V-Network	ENV216	101380	R&S	2017-05-11	1 Year
6	Substitution Antenna	ETS-3117	00135890	ETS	2017-01-11	3 Year
7	RF Signal Generator	SMF100A	102314	R&S	2017-05-11	1 Year
8	Substitution Antenna	VUBA9117	9117-266	Schwarzbeck	2014-08-19	3 Year
9	Amplifier	SCU03	10009	R&S	2017-01-05	1 Year

10	Amplifier	NTWPA -008610 F	12023024	Rflight	2017-01-05	1 Year
11	Attenuators	BW-N3 W5+	/	MCL	2017-01-05	1 Year

Conducted test system

No.	Name	Type	SN	Manufacture	Calibration date	Cal.interval
1	Spectrum Analyzer	FSQ26	101096	R&S	2017-05-11	1 Year
2	Universal Radio Communication Tester	CMU200	123102	R&S	2017-05-11	1 Year
3	DC Power Supply	ZUP60-1 4	LOC-220Z006 -0007	TDL-Lambda	2017-05-11	1 Year

7. Test Environment

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Ground system resistance	< 0.5 Ω

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =25 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber1 (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 25 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
VSWR	Between 0 and 6 dB, from 1GHz to 18GHz
Site Attenuation Deviation	Between -4 and 4 dB,30MHz to 1GHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

ANNEX A. MEASUREMENT RESULTS

ANNEX A.1. OUTPUT POWER

A.1.1. Summary

During the process of testing, the EUT was controlled Rhode & Schwarz Digital Radio. Communication tester (CMU-200) to ensure max power transmission and proper modulation. This result contains peak output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

A.1.2. Conducted

A.1.2.1. Method of Measurements

Method of measurements please refer to KDB971168 D01 v02r02 clause 5.

The EUT was set up for the max output power with pseudo random data modulation.

The power was measured with Rhode & Schwarz Spectrum Analyzer FSQ(peak).

These measurements were done at 3 frequencies, 1850.2 MHz, 1880.0MHz and 1909.8MHz for PCS1900 band; 824.2MHz, 836.6MHz and 848.8MHz for GSM850 band. (bottom, middle and top of operational frequency range).

These measurements were done at 3 frequencies, 1852.4 MHz, 1880.0MHz and 1907.6MHz for WCDMA Band II; 826.4MHz, 836.6MHz and 846.6MHz for WCDMA Band V. (bottom, middle and top of operational frequency range).

A.1.2.2 Test procedures:

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

A.1.2.3 Limit:

22.913(a) Mobile stations are limited to 7watts.

24.232(c) Mobile and portable stations are limited to 2 watts.

A.1.2.4 Test Procedure:

The transmitter output power was connected to calibrated attenuator, the other end of which was connected to signal analyzer. Transmitter output power was read off the power in dBm. The power outputs at the transmitter antenna port was determined by adding the value of attenuator to the signal analyzer reading.

A.1.2.5 GSM Test Condition:

RBW	VBW	Sweep time	Span
-----	-----	------------	------

1MHz	1MHz	300ms	10MHz
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A.1.2.6 WCDMA Test Condition:

RBW	VBW	Sweep time	Span
10MHz	10MHz	800ms	50MHz

A.1.2.7 Measurement results:

GSM 850 (GMSK)	
Channel/fc(MHz)	Peak power (dBm)
Mid 189/836.4	32.89
Low 128/824.2	32.939
High 251/848.8	32.79
GPRS 850 (GMSK 1 Slot)	
Channel/fc(MHz)	Peak power (dBm)
Mid 189/836.4	32.893
Low 128/824.2	32.913
High 251/848.8	32.793
EDGE 850 (8PSK 1 Slot)	
Channel/fc(MHz)	Peak power (dBm)
Mid 189/836.4	27.671
Low 128/824.2	27.707
High 251/848.8	27.478

GSM 1900(GMSK)	
Channel/fc(MHz)	Peak power (dBm)
Mid 661/1880	30.316

Low 512/1850.2	30.331
High 810/1909.8	30.312
GPRS 1900 (GMSK 1 Slot)	
Channel/fc(MHz)	Peak power (dBm)
Mid 661/1880	30.295
Low 512/1850.2	30.348
High 810/1909.8	30.341
EDGE 1900 (8PSK 1 Slot)	
Channel/fc(MHz)	Peak power (dBm)
Mid 661/1880	27.037
Low 512/1850.2	26.967
High 810/1909.8	27.074

WCDMA II	
Channel/fc(MHz)	Peak power (dBm)
Mid 9400 /1880	26.13
Low 9262/1852.4	25.889
High 9538/1907.6	26.079
WCDMA BAND V	
Channel/fc(MHz)	Peak power (dBm)
Mid 4183/836.6	26.084
Low 4132/826.4	25.6
High 4233/846.6	25.273

Conclusion: PASS

ANNEX A.2. Peak-to-Average Power Ratio

Method of test measurements please refer to KDB971168 D01 v02r02 clause 5.7.

A.2.1 PAPR Limit

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

A.2.2 Test procedures

1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
2.
 - 1) Select the spectrum analyzer CCDF function.
 - 2) Set $RBW \geq$ signal's occupied bandwidth.
 - 3) Set the number of counts to a value that stabilizes the measured CCDF curve;
 - 4) Sweep time \geq 1s.
3. Record the maximum PAPR level associated with a probability of 0.1%.

A.2.3 Test results:

GSM850			
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
PAPR(dB)	8.43	8.69	8.66
GPRS850			
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
PAPR(dB)	8.64	8.71	8.71
EDGE850			
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
PAPR(dB)	8.64	8.77	8.35

GSM1900			
Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
PAPR(dB)	8.66	8.60	8.55
GPRS1900			

Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
PAPR(dB)	8.85	8.67	8.39
EDGE1900			
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
PAPR(dB)	8.64	8.71	8.71

WCDMA Band II			
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880	1907.6
PAPR(dB)	3.78	3.94	3.53

WCDMA Band V			
Channel	4132	4183	4233
Frequency (MHz)	826.4	836.4	846.6
PAPR(dB)	3.33	3.87	3.74

Conclusion: PASS

ANNEX A.3. Occupied Bandwidth

Method of test please refer to KDB971168 D01 v02r02 clause 4.0.

A.3.1. Occupied Bandwidth

Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of GSM850, PCS1900, WCDMA BANDII and WCDMA BANDV.

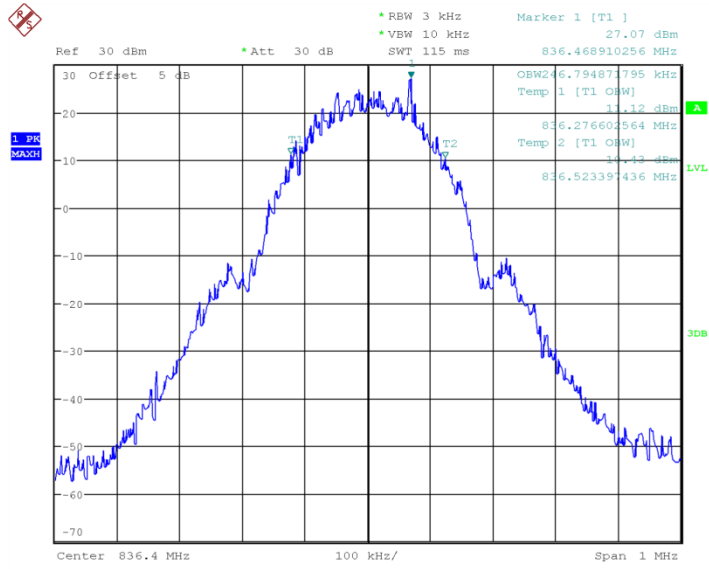
A.3.2 Test Procedure:

1. The EUT output RF connector was connected with a short cable to the signal analyzer.
2. RBW was set to about 1% of emission BW, VBW \geq 3 times RBW,.
3. 99% bandwidth were measured, the occupied bandwidth is delta frequency between the two points where the display line intersects the signal trace.

A.3.3 Test result:

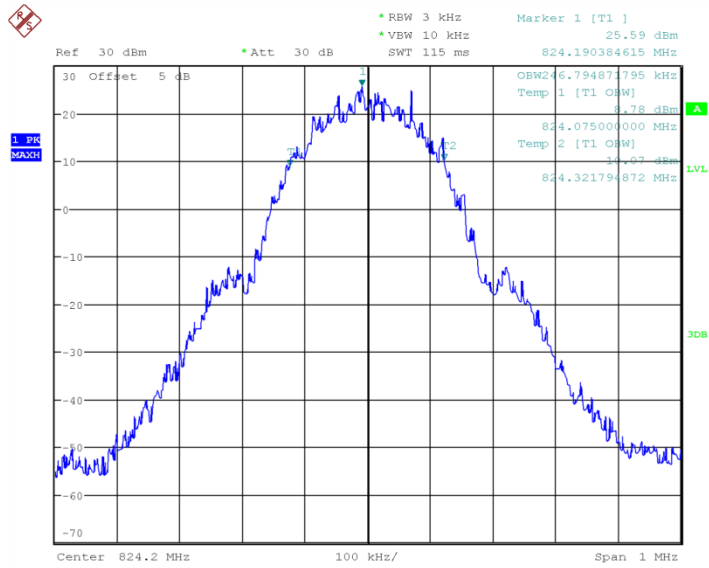
GSM850		
Test channel	Frequency (MHz)	99% Occupied Bandwidth(KHz)
Mid 189	836.4	246.795
Low 128	824.2	246.795
High 251	848.8	243.59
GPRS850		
Test channel	Frequency (MHz)	99% Occupied Bandwidth(KHz)
Mid 189	836.4	243.59
Low 128	824.2	245.192
High 251	848.8	245.192
EDGE850		
Test channel	Frequency (MHz795)	99% Occupied Bandwidth(KHz)
Mid 189	836.4	243.59
Low 128	824.2	243.59
High 251	848.8	241.987

Conclusion: PASS
GSM 850



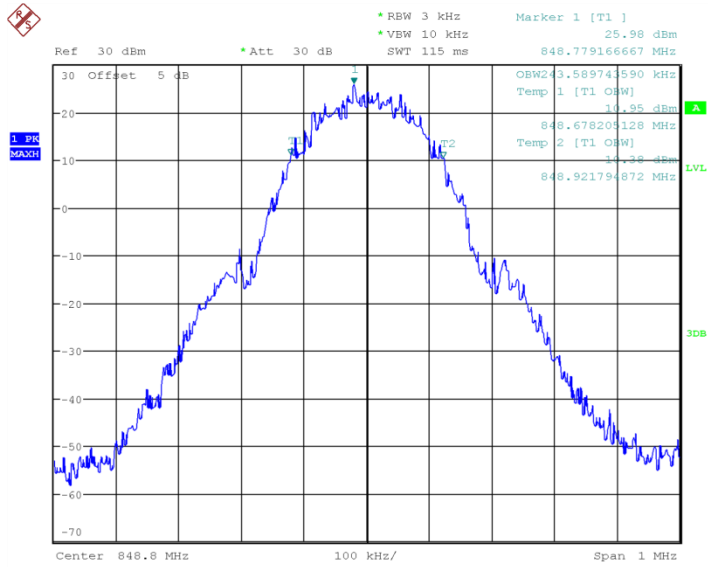
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Channel 189-Occupied Bandwidth (99%)



Date: 23 JUN 2017 12:36:57

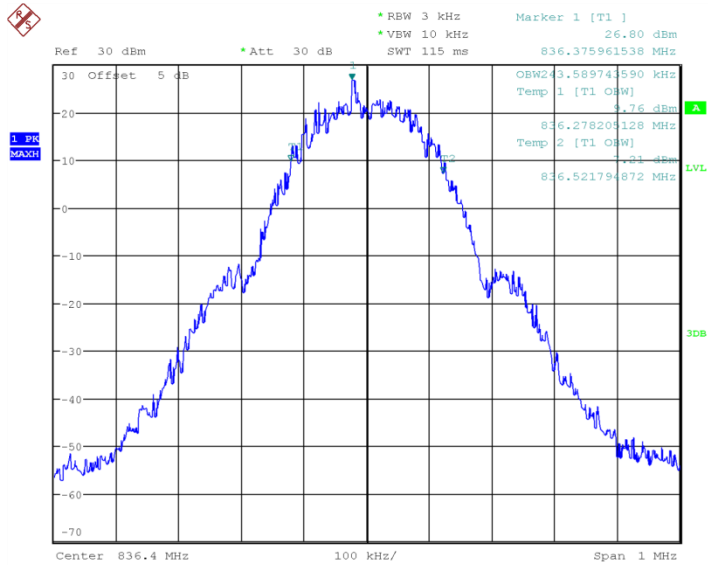
Channel 128-Occupied Bandwidth (99%)



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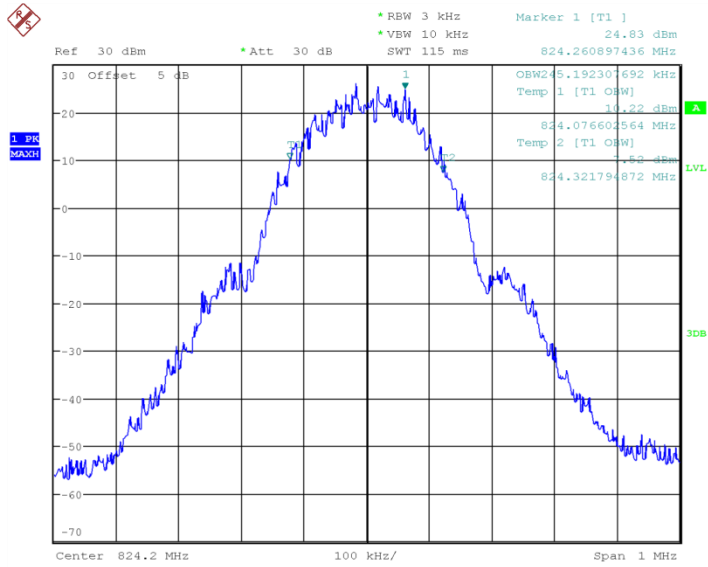
Channel 251-Occupied Bandwidth (99%)

GPRS 850



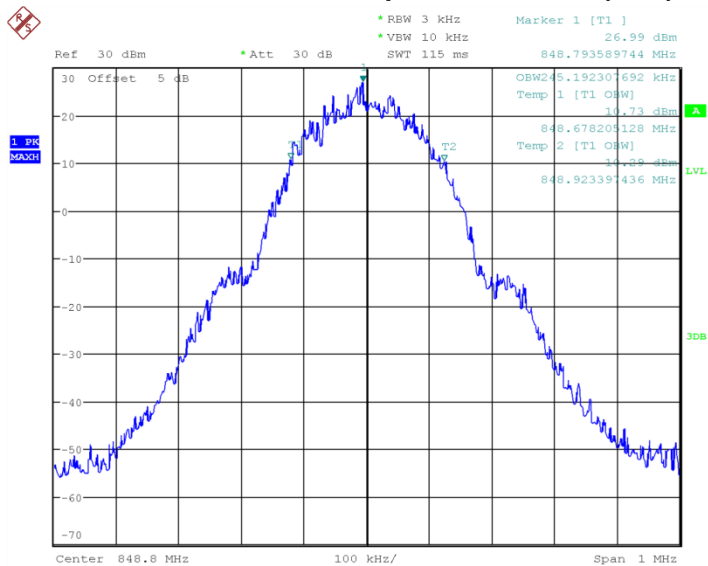
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Channel 189-Occupied Bandwidth (99%)



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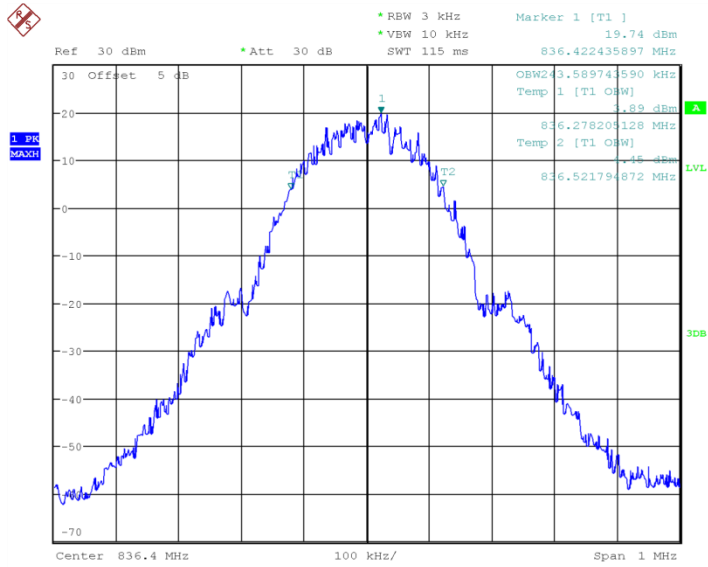
Channel 128-Occupied Bandwidth (99%)



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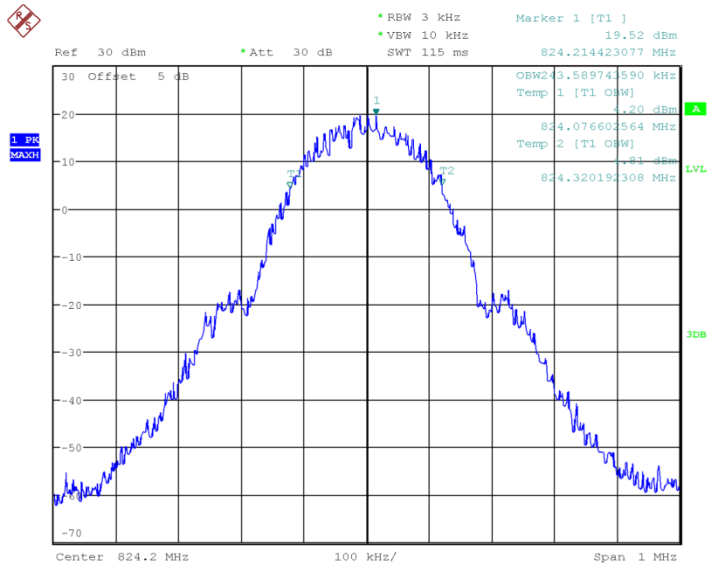
Channel 251-Occupied Bandwidth (99%)

EDGE 850



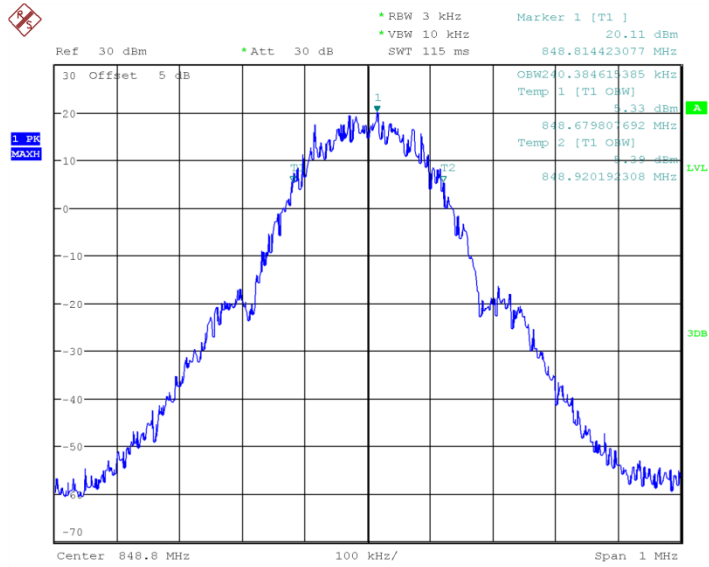
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Channel 189-Occupied Bandwidth (99%)



Date: 23.JUN.2017 12:44:47

Channel 128-Occupied Bandwidth (99%)



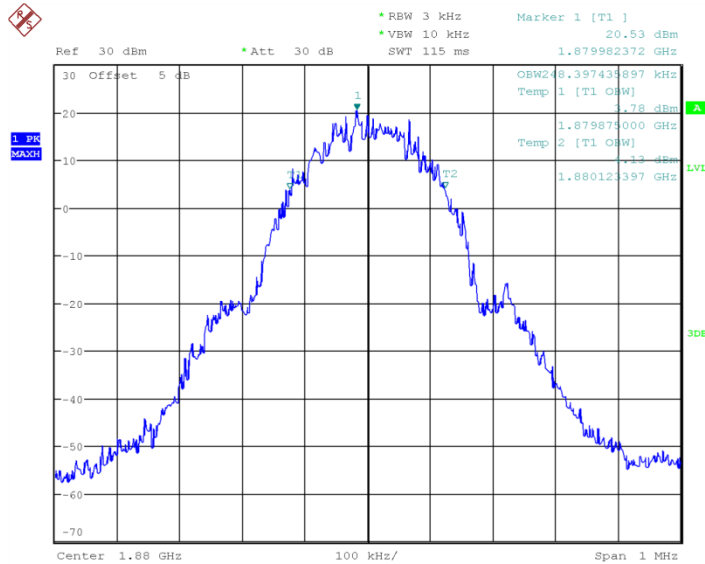
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Channel 251-Occupied Bandwidth (99%)

GSM1900		
Test channel	Frequency (MHz)	99% Occupied Bandwidth(KHz)
Mid 661	1880	245.192
Low 512	1850.2	233.974
High 810	1909.8	222.756
GPRS1900		
Test channel	Frequency (MHz)	99% Occupied Bandwidth(KHz)
Mid 661	1880	270.833
Low 512	1850.2	241.987
High 810	1909.8	261.218
EDGE1900		
Test channel	Frequency (MHz)	99% Occupied Bandwidth(KHz)
Mid 661	1880	251.603
Low 512	1850.2	224.359

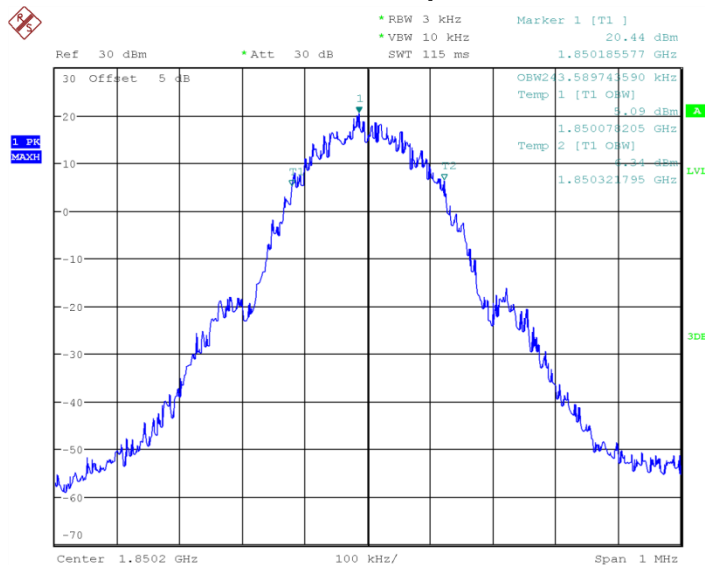
High 810	1909.8	225.962
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Conclusion: PASS
GSM 1900



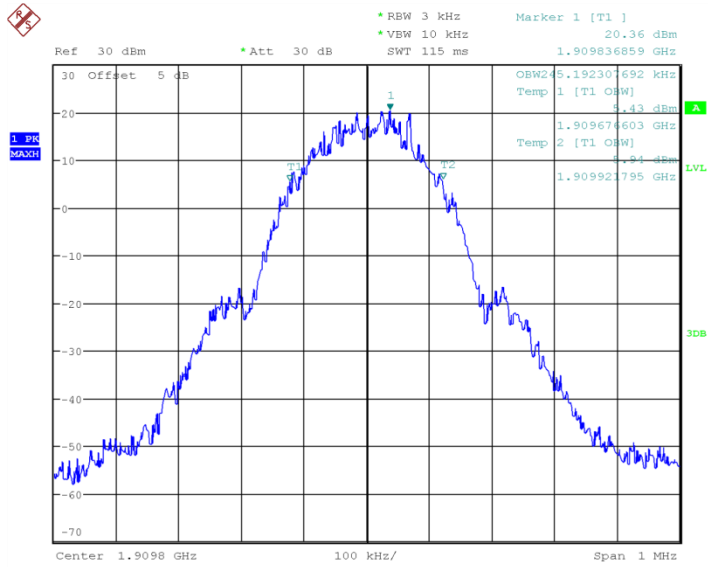
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Channel 661-Occupied Bandwidth



Date: 23.JUN.2017 12:48:43

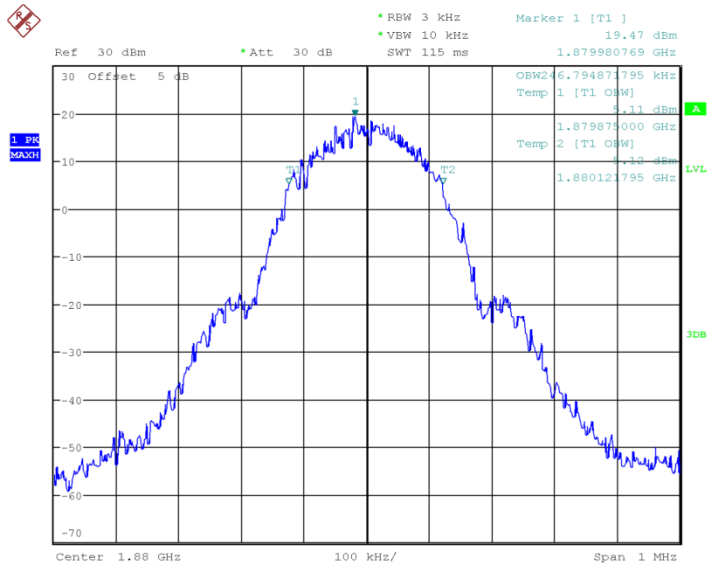
Channel 512-Occupied Bandwidth



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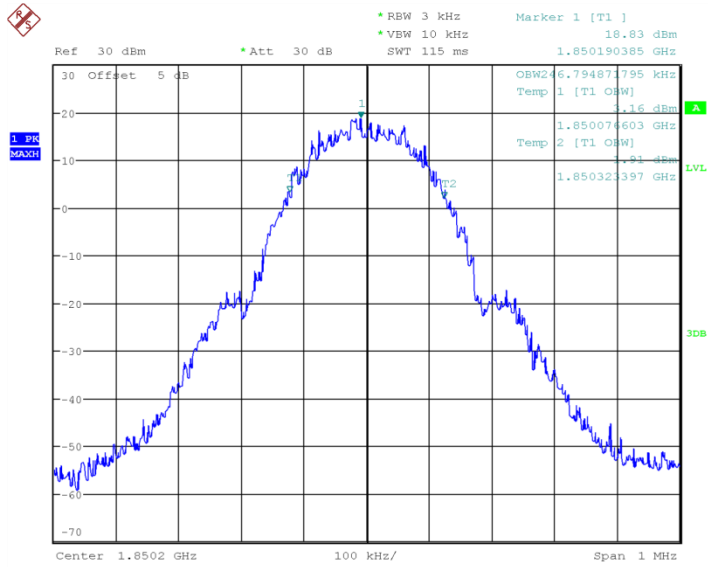
Channel 810-Occupied Bandwidth

EGPRS 1900



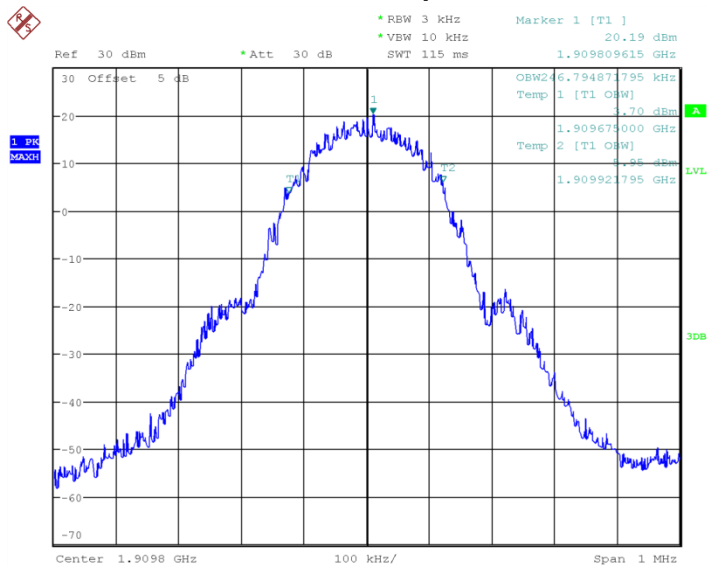
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Channel 661-Occupied Bandwidth



Date: 23 JUN 2017 12:52:32

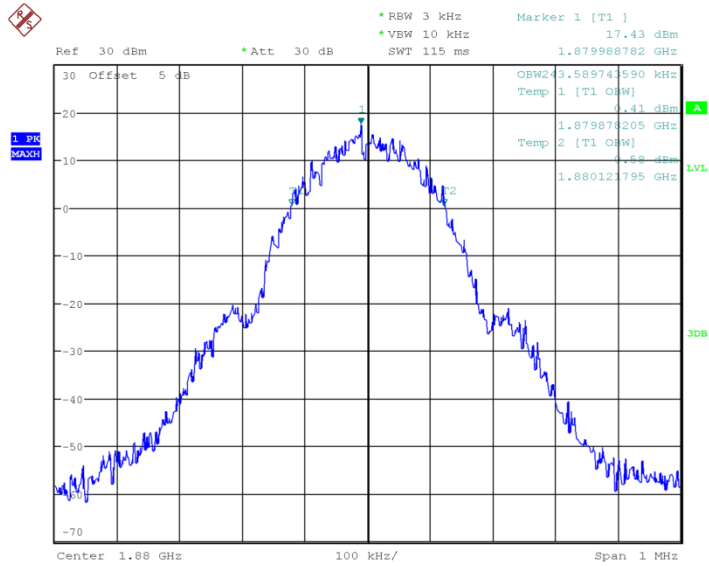
Channel 512-Occupied Bandwidth



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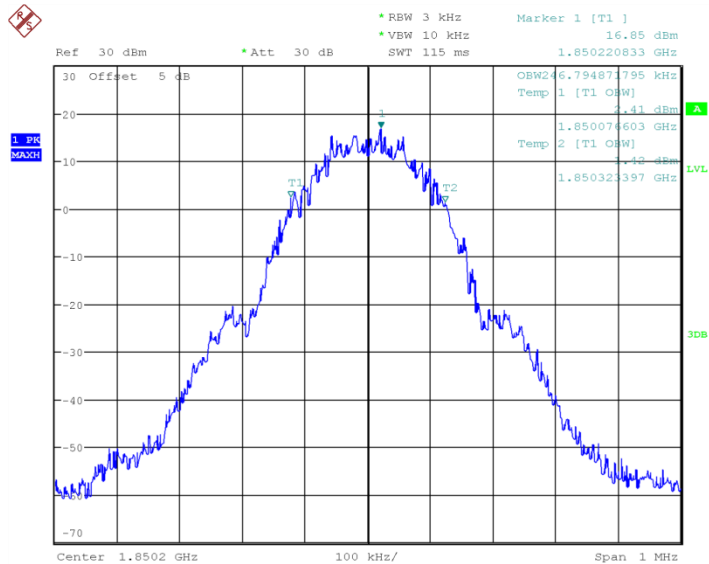
Channel 810-Occupied Bandwidth

EDGE 1900



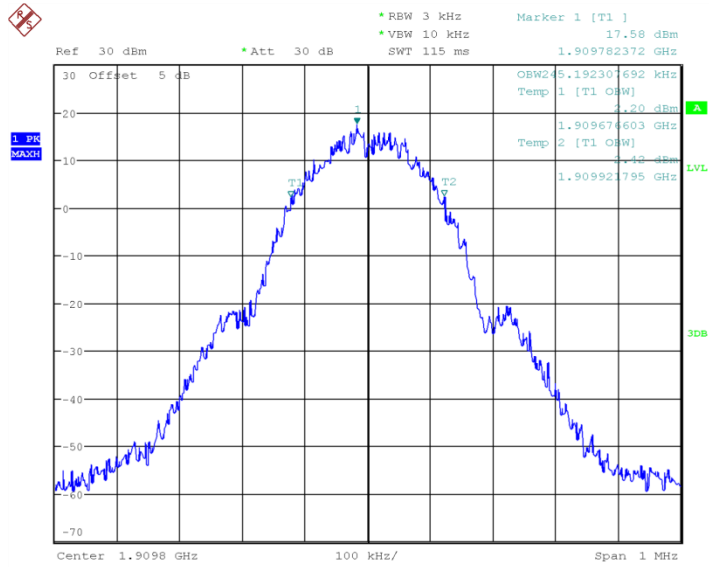
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Channel 661-Occupied Bandwidth



Date: 23 JUN 2017 12:56:08

Channel 512-Occupied Bandwidth

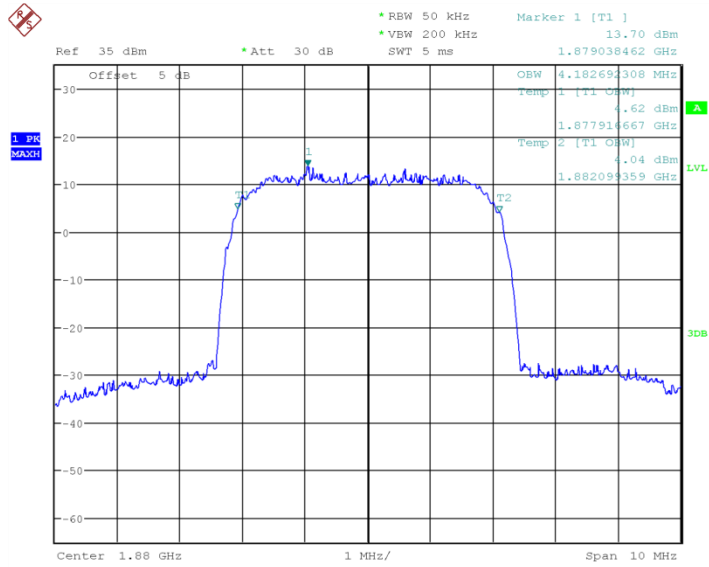


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Channel 810-Occupied Bandwidth

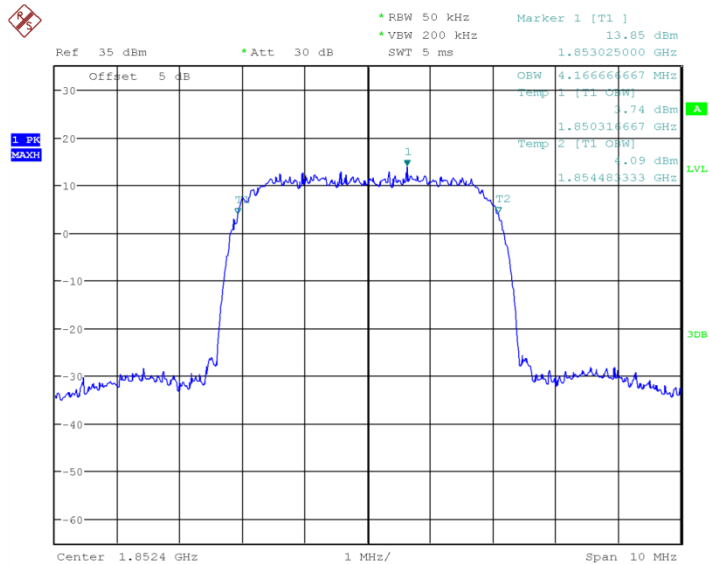
WCDMA BAND II		
Test channel	Frequency (MHz)	99% Occupied Bandwidth(MHz)
Mid 9400	1880	4.18
Low 9262	1852.4	4.17
High 9538	1907.6	4.17

Conclusion: PASS
WCDMA BAND II



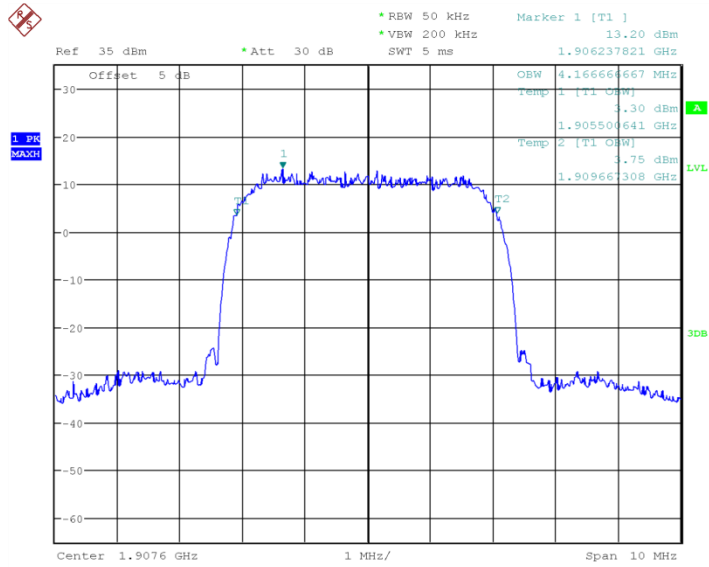
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Channel 940-Occupied Bandwidth



Date: 23.JUN.2017 08:19:06

Channel 1852-Occupied Bandwidth



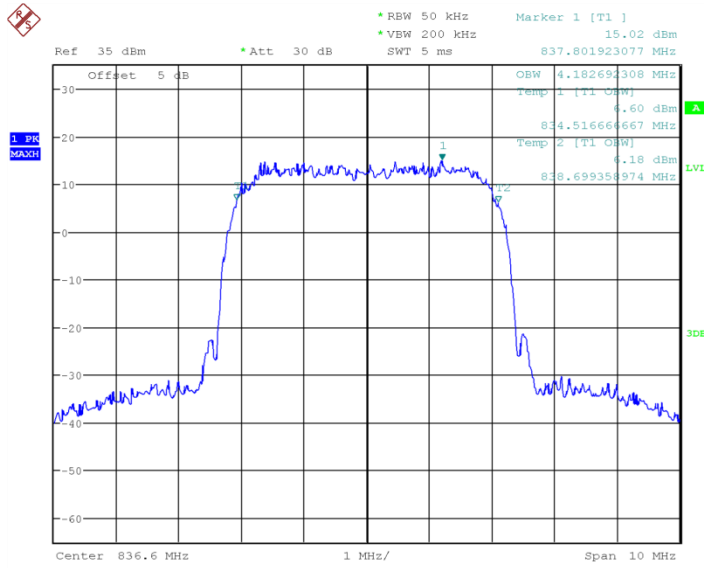
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Channel 1907-Occupied Bandwidth

WCDMA BAND V		
Test channel	Frequency (MHz)	99% Occupied Bandwidth(MHz)
Mid 4183	836.6	4.18
Low 4132	826.4	4.17
High 4233	846.6	4.20

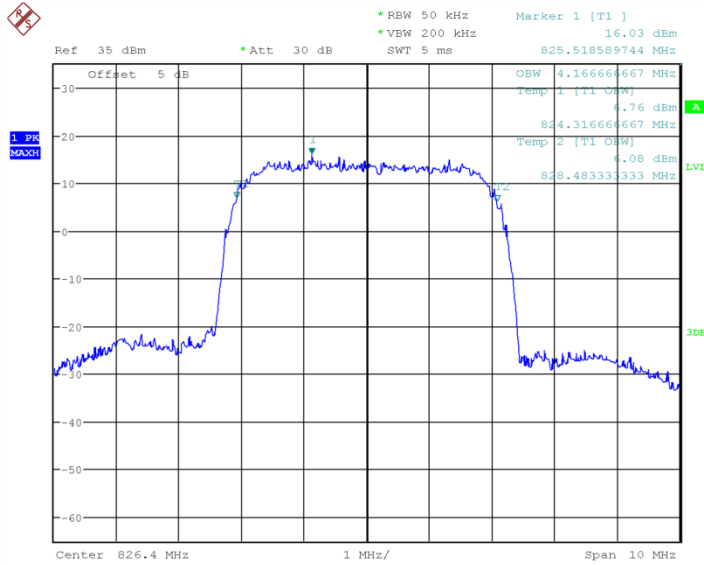
Conclusion: PASS

WCDMA BAND V



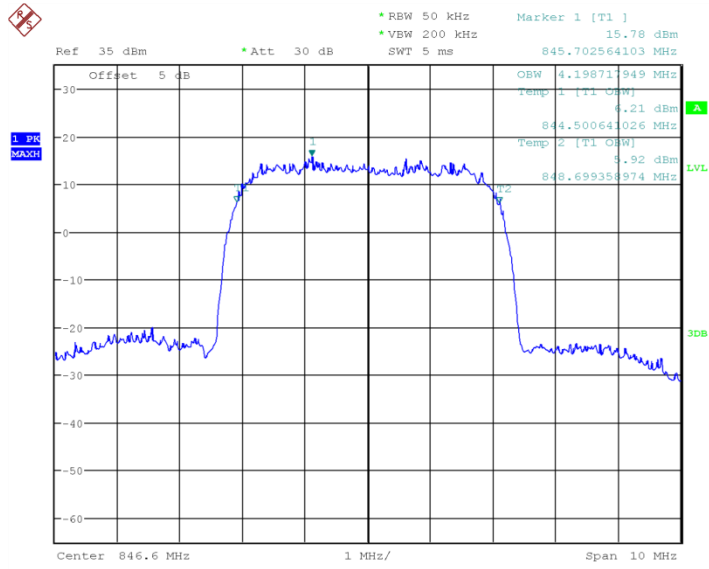
Date: 23.JUN.2017 08:20:43

Channel 4183-Occupied Bandwidth



Date: 23.JUN.2017 08:21:21

Channel 4132-Occupied Bandwidth



Date: 23 JUN 2017 08:21:58

Channel 4233-Occupied Bandwidth

ANNEX A.4. -26dB Emission Bandwidth

Method of test please refer to KDB971168 D01 v02r02 clause 4.0.

A.4.1. -26dB Emission Bandwidth

Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of GSM850, PCS1900, WCDMA BANDII and WCDMA BANDV.

A.4.2 Test Procedure:

1. The EUT output RF connector was connected with a short cable to the signal analyzer.
2. RBW was set to about 1% of emission BW, VBW \geq 3 times RBW,.
3. 26dB bandwidth were measured, the occupied bandwidth is delta frequency between the two points where the display line intersects the signal trace.

A.4.3 Measurement methods:

For GSM: signal analyzer setting as: RBW=3KHz;VBW=10KHz;Span=1MHz.

For WCDMA: signal analyzer setting as: RBW=50KHz;VBW=20KHz;Span=10MHz.

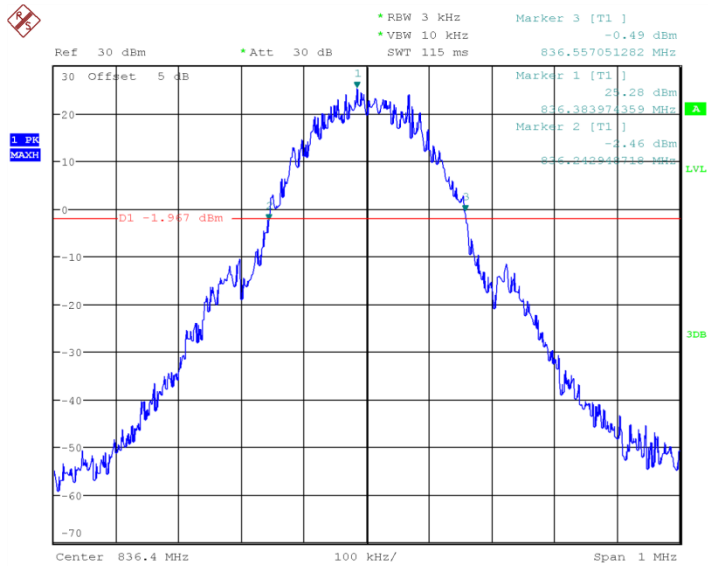
A.4.4 Test results:

GSM 850		
Test channel	Frequency (MHz)	-26dBc Emission Bandwidth(KHz)
Mid 189	836.4	314.103
Low 128	824.2	307.692
High 251	848.8	322.115
GPRS 850		
Test channel	Frequency (MHz)	-26dBc Emission Bandwidth(KHz)
Mid 189	836.4	315.70
Low 128	824.2	312.5
High 251	848.8	312.5
EDGE 850		
Test channel	Frequency (MHz)	-26dBc Emission Bandwidth(KHz)
Mid 189	836.4	312.5

Low 128	824.2	315.705
High 251	848.8	314.103

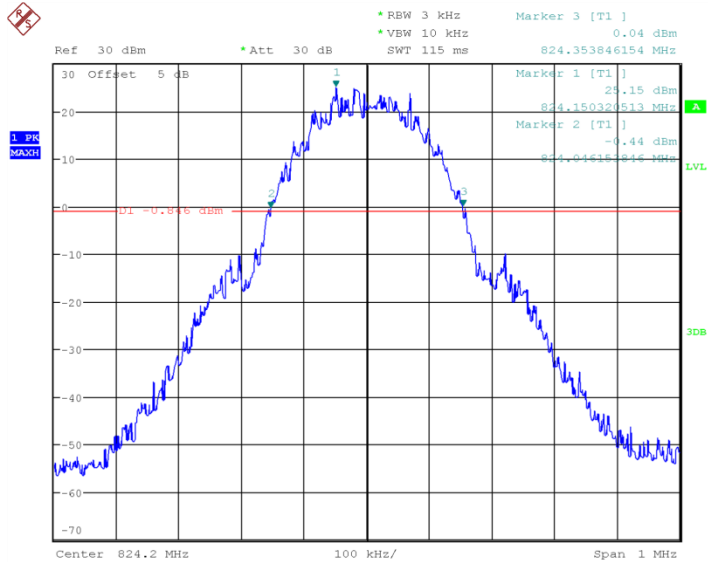
Conclusion: PASS

GSM 850



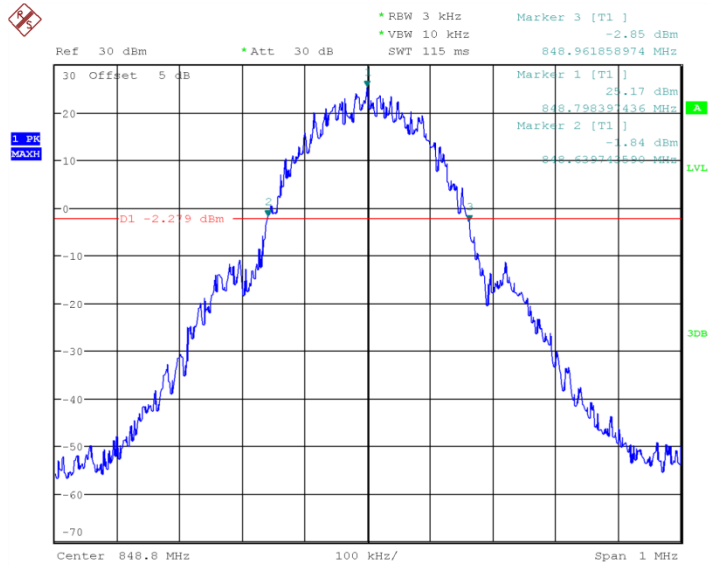
Date: 23 JUN 2017 13:04:25

Channel 189- Emission Bandwidth (-26dBc BW)



Date: 23 JUN 2017 13:04:54

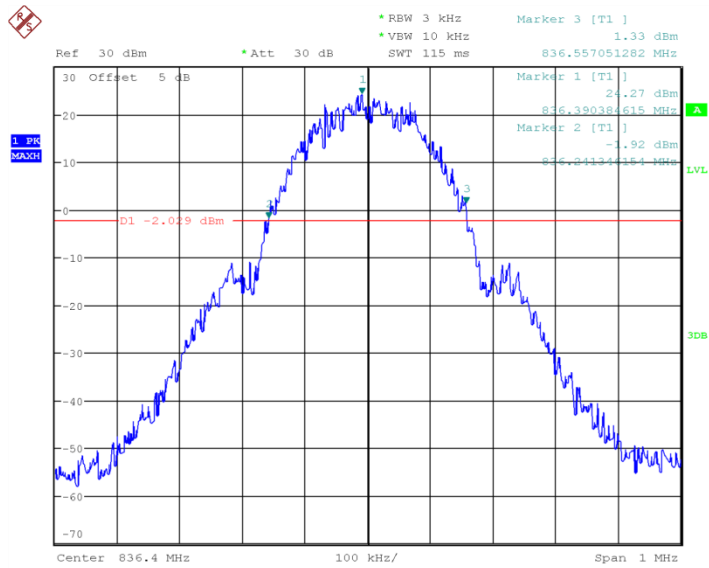
Channel 128- Emission Bandwidth (-26dBc BW)



Date: 23.JUN.2017 13:05:23

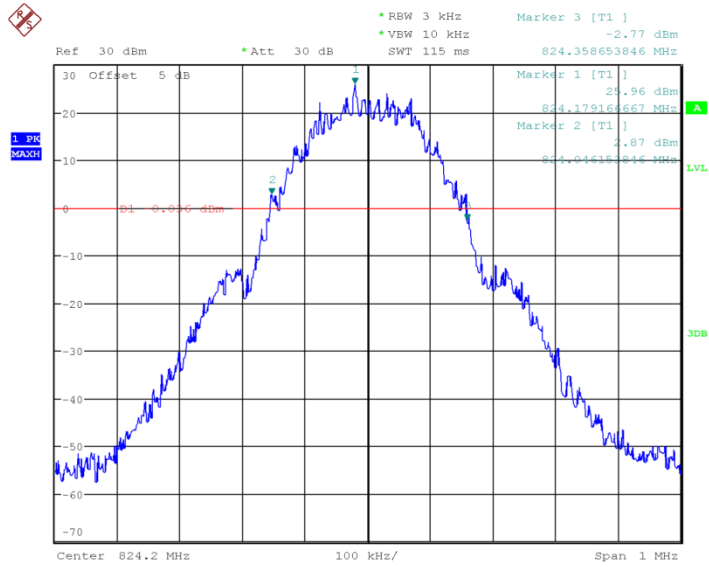
Channel 251- Emission Bandwidth (-26dBc BW)

GPRS 850



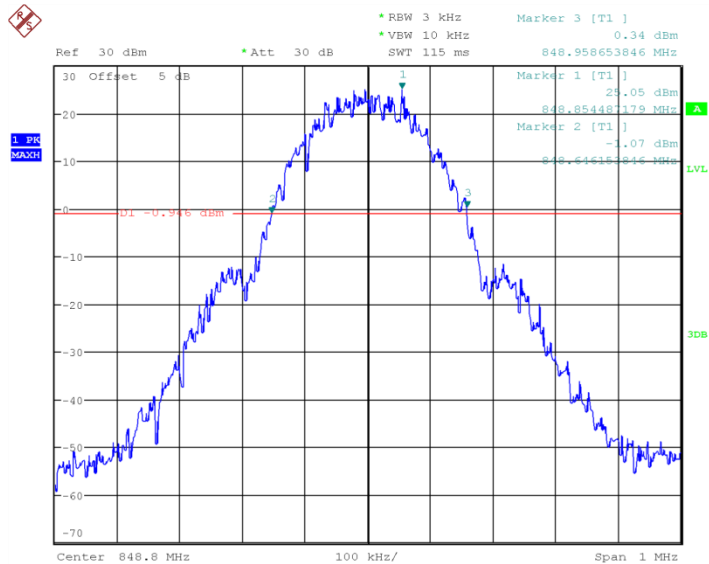
Date: 23.JUN.2017 13:14:25

Channel 189- Emission Bandwidth (-26dBc BW)



Date: 23 JUN 2017 13:14:52

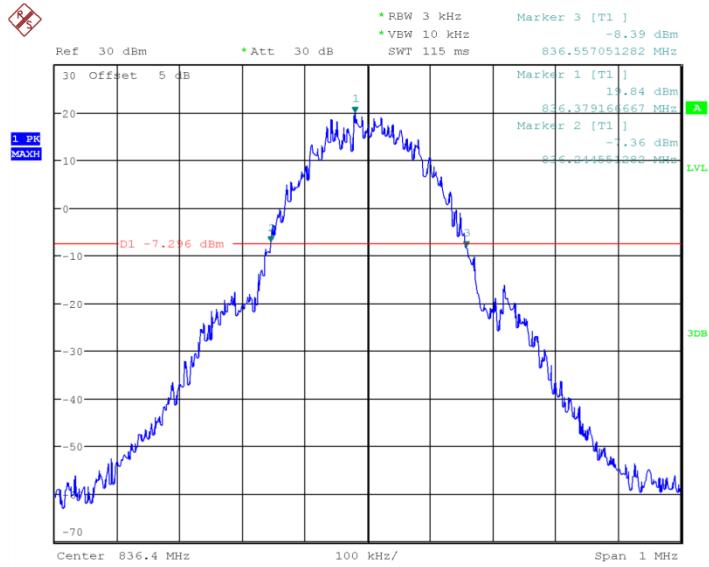
Channel 128- Emission Bandwidth (-26dBc BW)



Date: 23 JUN 2017 13:15:19

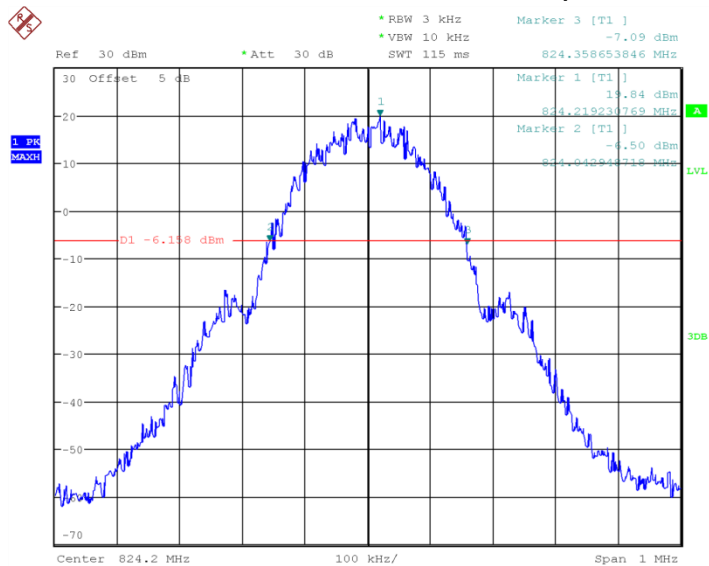
Channel 251- Emission Bandwidth (-26dBc BW)

EDGE 850



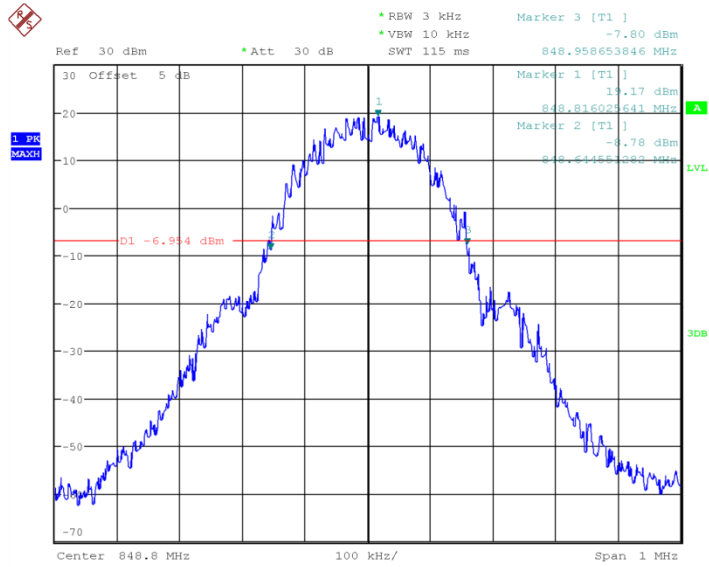
Date: 23.JUN.2017 13:17:39

Channel 189- Emission Bandwidth (-26dBc BW)



Date: 23.JUN.2017 13:18:05

Channel 128- Emission Bandwidth (-26dBc BW)



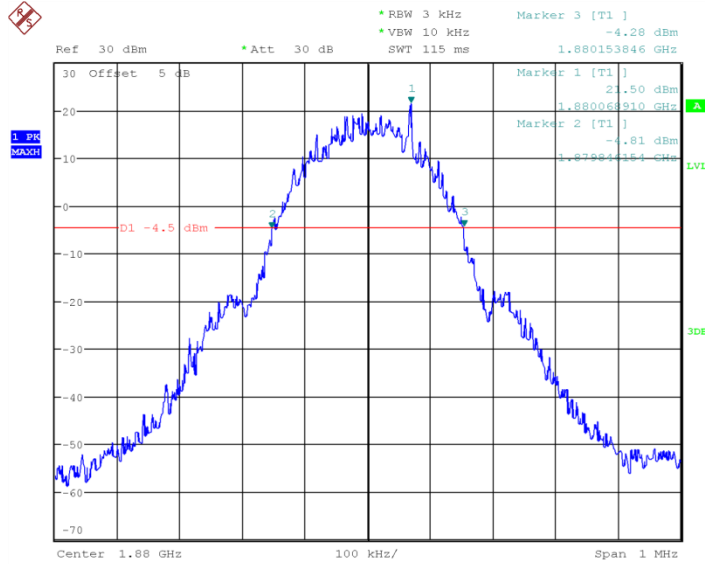
Date: 23 JUN 2017 13:18:32

Channel 251- Emission Bandwidth (-26dBc BW)

GSM1900		
Test channel	Frequency (MHz)	-26dBc Emission Bandwidth(KHz)
Mid 661	1880	307.692
Low 512	1850.2	310.897
High 810	1909.8	306.09
GPRS1900		
Test channel	Frequency (MHz)	-26dBc Emission Bandwidth(KHz)
Mid 661	1880	312.5
Low 512	1850.2	310.897
High 810	1909.8	310.897
EDGE1900		
Test channel	Frequency (MHz)	-26dBc Emission Bandwidth(KHz)
Mid 661	1880	314.103
Low 512	1850.2	310.897
High 810	1909.8	317.308

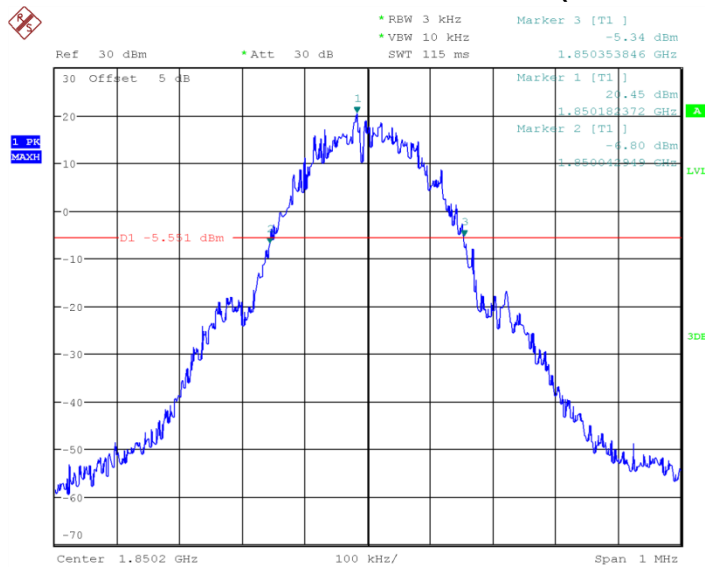
Conclusion: PASS

GSM 1900



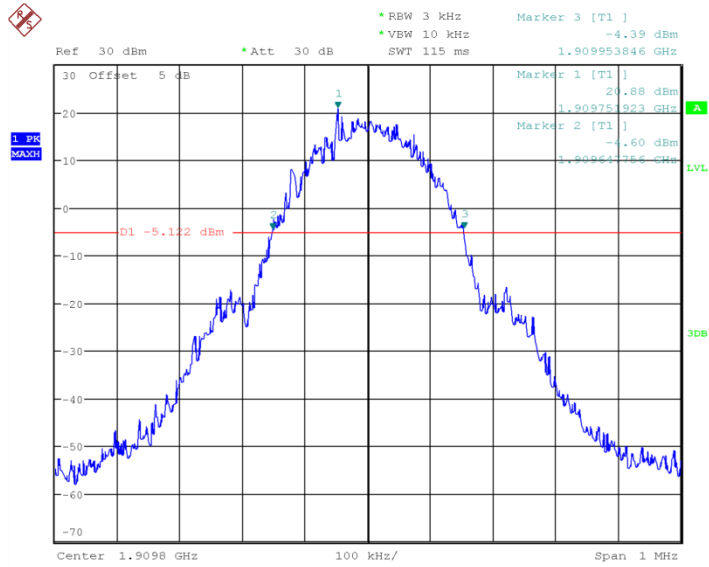
Date: 23.JUN.2017 13:21:31

Channel 661- Emission Bandwidth (-26dBc BW)



Date: 23.JUN.2017 13:22:00

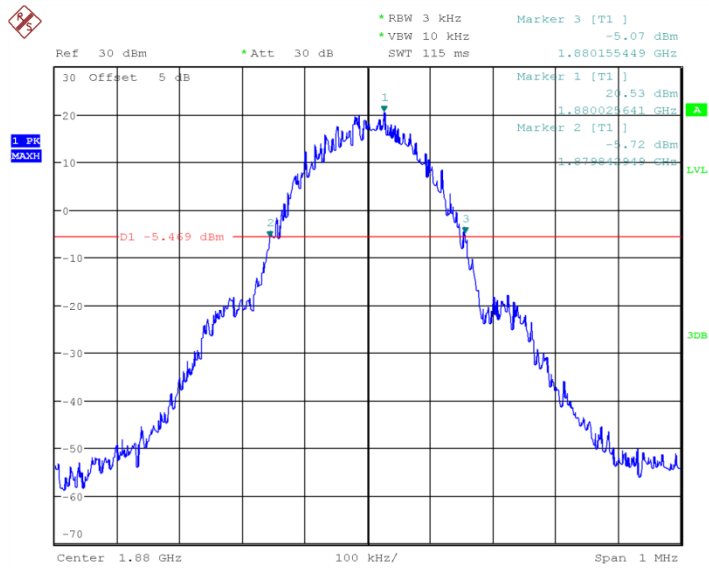
Channel 512- Emission Bandwidth (-26dBc BW)



Date: 23.JUN.2017 13:22:27

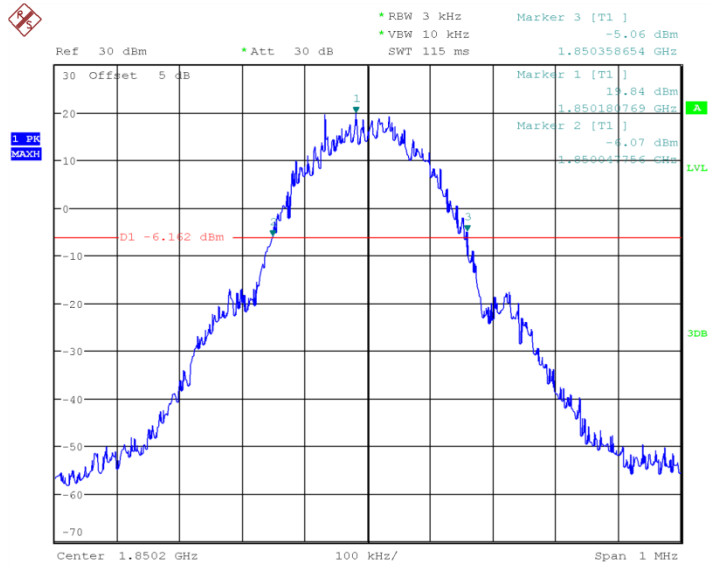
Channel 810- Emission Bandwidth (-26dBc BW)

GPRS 1900



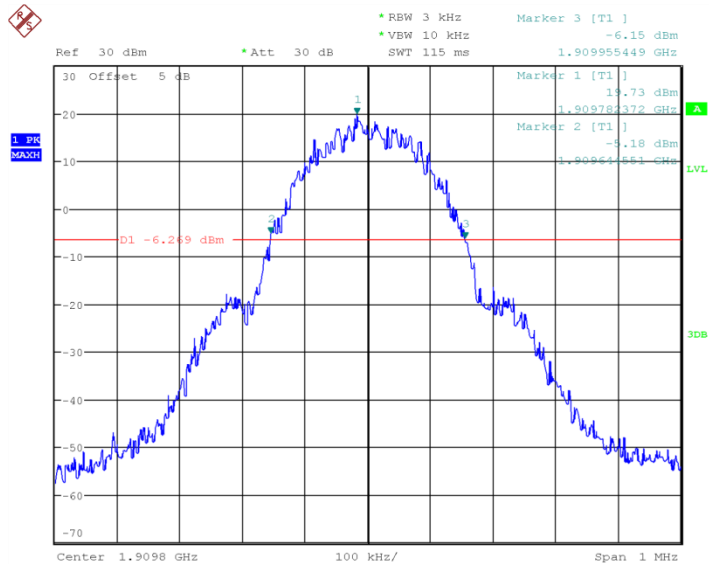
Date: 23.JUN.2017 13:25:18

Channel 661- Emission Bandwidth (-26dBc BW)



Date: 23 JUN 2017 13:25:45

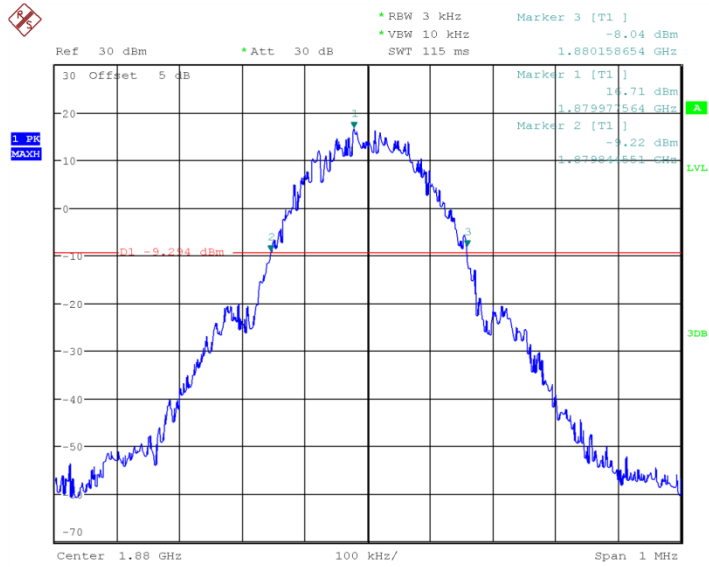
Channel512- Emission Bandwidth (-26dBc BW)



Date: 23 JUN 2017 13:26:13

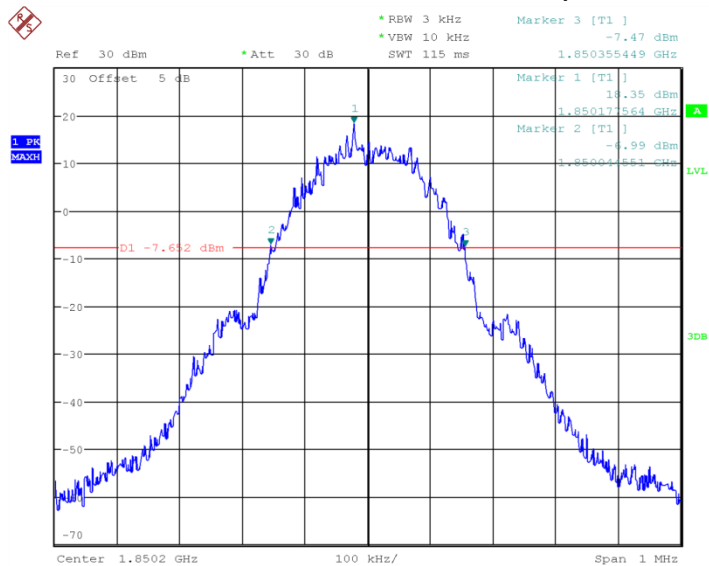
Channel 810- Emission Bandwidth (-26dBc BW)

EDGE 1900



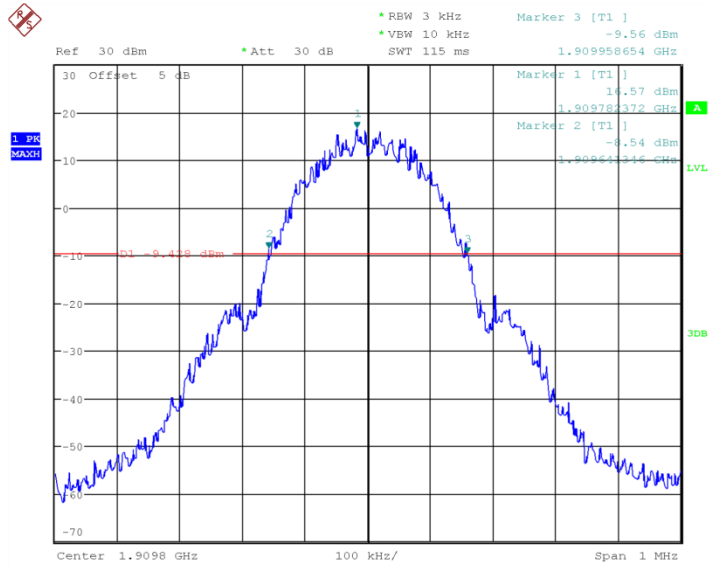
Date: 23 JUN 2017 13:31:46

Channel 661- Emission Bandwidth (-26dBc BW)



Date: 23 JUN 2017 13:32:14

Channel 512- Emission Bandwidth (-26dBc BW)



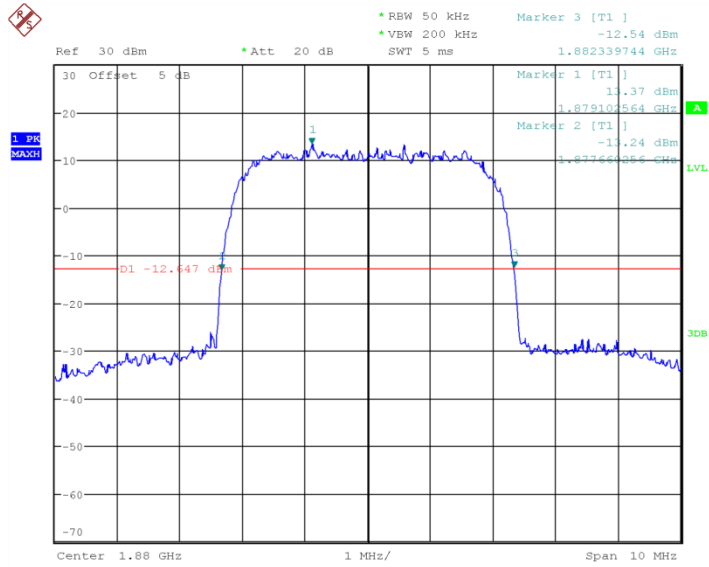
Date: 23.JUN.2017 13:32:42

Channel 810- Emission Bandwidth (-26dBc BW)

WCDMA BAND II		
Test channel	Frequency (MHz)	-26dBc Emission Bandwidth(MHz)
Mid 9400	1880	4.68
Low 9262	1852.4	4.68
High 9538	1907.6	4.68

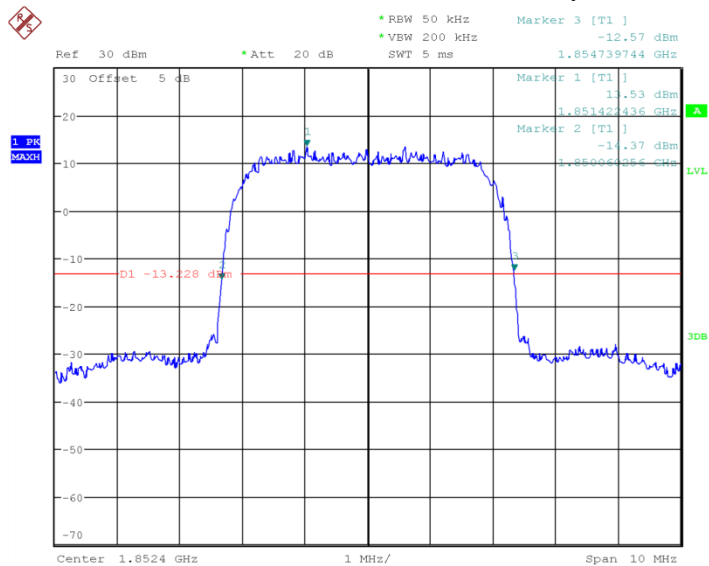
Conclusion: PASS

WCDMA BAND II



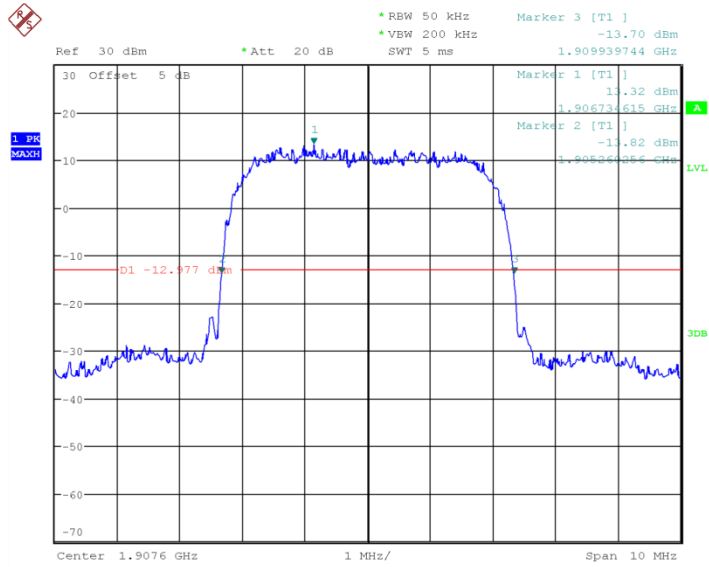
Date: 23.JUN.2017 08:27:08

Channel 940- Emission Bandwidth (-26dBc BW)



Date: 23.JUN.2017 08:27:37

Channel 926- Emission Bandwidth (-26dBc BW)



Date: 23 JUN 2017 08:28:04

Channel 9538- Emission Bandwidth (-26dBc BW)

WCDMA BAND V		
Test channel	Frequency (MHz)	-26dBc Emission Bandwidth(MHz)
Mid 4183	836.6	4.67
Low 4132	826.4	4.68
High 4233	846.6	4.71

Conclusion: PASS

WCDMA BAND V