

FCC Test Report

Report No.:AGC01662180503FE02

FCC ID : SRMT11012820
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : 3G, 2G Tracking Device
BRAND NAME : N/A
MODEL NAME : T11012820
CLIENT : Sensitech, INC.
DATE OF ISSUE : Aug. 13, 2018
STANDARD(S) : FCC Part 22H & 24E Rules
REPORT VERSION : V1.1

Attestation of Global Compliance (Shenzhen) Co., Ltd.

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	July 16, 2018	Invalid	Initial Release
V1.1	1 st	Aug. 13, 2018	Valid	Revise Report

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1. VERIFICATION OF COMPLIANCE

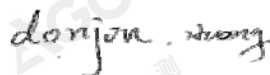
Applicant	Sensitech, INC.
Address	800 Cummings Ctr, Suite 258X, Beverly, Massachusetts, United States
Manufacturer	Sensitech, INC.
Address	800 Cummings Ctr, Suite 258X, Beverly, Massachusetts, United States
Product Designation	3G, 2G Tracking Device
Brand Name	N/A
Test Model	T11012820
Date of test	May. 10, 2018~June 18, 2018
Deviation	None
Condition of Test Sample	Normal

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance(Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA-603-E-2016. The sample tested as described in this report is in compliance with the FCC Rules Part 22H and 24E.

The test results of this report relate only to the tested sample identified in this report.

Tested By



Donjon Huang(Huang
dongyang)

June 18, 2018

Reviewed By



Bart Xie(Xie Xiaobin)

Aug. 13, 2018

Approved By



Forrest Lei(Lei Yonggang)
Authorized Officer

Aug. 13, 2018

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2. GENERAL INFORMATION

2.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	3G, 2G Tracking Device
Hardware version:	T14003070
Software version:	N/A
Frequency Bands:	☒ GSM 850 ☒ PCS1900 (U.S. Bands) ☒ GSM 900 ☒ DCS 1800 (Non-U.S. Bands) ☒ UMTS FDD Band II ☐ UMTS FDD Band IV ☒ UMTS FDD Band V (U.S. Bands) ☒ UMTS FDD Band I ☒ UMTS FDD Band VIII (Non-U.S. Bands)
Antenna Type	PIFA Antenna
Type of Modulation	GSM / GPRS :GMSK EGPRS: GMSK/8PSK WCDMA : QPSK
Antenna gain	0dBi
Power Supply:	DC 3.7V by battery
Battery parameter:	DC3.7V/10400mAh
Single Card:	GSM /WCDMA Card Slot
GPRS Class	12
Extreme Vol. Limits:	DC3.4 V to 4.2 V (Normal: DC3.7 V)
Extreme Temp. Tolerance	-15℃ to +55℃
*** Note: 1. The High Voltage DC4.2V and Low Voltage DC3.4V were declared by manufacturer 2. The EUT couldn't be operating normally with higher or lower voltage.	

- *** **Note:** 1. The maximum power levels are GSM for MCS-4: GMSK link, and RMC 12.2kbps mode for WCDMA band II, WCDMA band V, only these modes were used for all tests.
2. We found out the test mode with the highest power level after we analyze all the data rates. So we chose worst case as a representative.

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GSM/WCDMA Card Slot :

	Maximum ERP/EIRP (dBm)	Max. Average Burst Power (dBm)
GSM 850	32.86	35.26
PCS 1900	27.64	29.51
UMTS BAND II	22.21	23.97
UMTS BAND V	19.76	21.26

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2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID:SRMT11012820**, filing to comply with the FCC Part 22H&24E requirements.

2.3 TEST METHODOLOGY

The radiated emission testing was performed according to the procedures of ANSI/TIA-603-E-2016, and KDB 971168 D01 Power Means License Digital Systems V03R01.

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2.4 TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, ChaxiSanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, BaoanBldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP LAB CODE	600153-0
Designation Number	CN5028
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

ALL TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.18, 2017	May.17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
SIGNAL ANALYZER	Agilent	N9020A	MY52090123	Sep. 21, 2017	Sep. 20, 2018
USB Wideband Power Sensor	Agilent	U2021XA	MY54110007	Sep. 21, 2017	Sep. 20, 2018
Universal Radio Communication Tester	R&S	CMU200	120237	Mar.01,2018	Feb.28,2019
Universal Radio Communication Tester	Agilent	8960	GB46200384	July 16,2017	July 15,2018
Power Splitter	Agilent	11636A	34	Sep.21,2017	Sep.20,2018
Attenuator	JFW	50FHC-006-50	N/A	June 20, 2017	June 19, 2018

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2.6 SPECIAL ACCESSORIES

The battery was supplied by the applicant and was used as accessories and being tested with EUT intended for FCC grant together.

2.7 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. SYSTEM TEST CONFIGURATION

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

3.3 CONFIGURATION OF EUT SYSTEM

Fig. 2-1 Configuration of EUT System



Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Remark
1	Gerylock	T11012820	SRMT11012820	EUT

***Note: All the accessories have been used during the test. The following "EUT" in setup diagram means EUT system.

4. SUMMARY OF TEST RESULTS

Item Number	Item Description		FCC Rules	Result
1	Output Power	Conducted Output Power	2.1046	Pass
		Radiated Output Power	22.913(a) (2) / 24.232 (c)	
2	Peak-to-Average Ratio	Peak-to-Average Ratio	24.232(d)	Pass
3	Spurious Emission	Conducted Spurious Emission	2.1051/22.917/24.238	Pass
		Radiated Spurious Emission		
4	Frequency Stability		2.1055/22.355/24.235	Pass
5	Occupied Bandwidth		2.1049	Pass
6	Band Edge		2.1051/22.917(a)/24.238(a)	Pass

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5. DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester (CMU 200) to ensure max power transmission and proper modulation. Three channels (The top channel, the middle channel and the bottom channel) were chosen for testing on both GSM and PCS frequency band.

*****Note:** GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, WCDMA/HSPA band II, WCDMA/HSPA band V, mode have been tested during the test.

The worst condition was recorded in the test report if no other modes test data.

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6. OUTPUT POWER

6.1 CONDUCTED OUTPUT POWER

6.1.1 MEASUREMENT METHOD

The transmitter output port was connected to base station.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Measure the maximum burst average power and average power for other modulation signal.

The EUT was setup for the max output power with pseudo random data modulation. Power was measured with Spectrum Analyzer. The measurements were performed on all modes(GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS1900, WCDMA/HSPA band II,WCDMA/HSPA band V)at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for each band.

6.1.2 MEASUREMENT RESULT

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GSM 850:

Mode	Channel	Frequency (MHz)	Avg.Burst Power
GSM850	128	824.2	34.40
	190	836.6	35.09
	251	848.8	34.79
GPRS850 (1 Slot)	128	824.2	35.26
	190	836.6	35.26
	251	848.8	35.19
GPRS850 (2 Slot)	128	824.2	33.01
	190	836.6	32.83
	251	848.8	33.22
GPRS850 (3 Slot)	128	824.2	30.48
	190	836.6	30.32
	251	848.8	30.93
GPRS850 (4 Slot)	128	824.2	28.64
	190	836.6	29.18
	251	848.8	29.06

Mode	Channel	Frequency (MHz)	Avg.Burst Power (dBm)
EDGE (1 Slot)	128	824.2	26.23
	190	836.6	26.37
	251	848.8	26.29
EDGE (2 Slot)	128	824.2	26.12
	190	836.6	26.34
	251	848.8	26.20
EDGE (3 Slot)	128	824.2	25.88
	190	836.6	26.13
	251	848.8	26.07
EDGE (4 Slot)	128	824.2	26.00
	190	836.6	25.89
	251	848.8	26.33

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PCS 1900:

Mode	Channel	Frequency (MHz)	Avg.Burst Power
GSM1900	512	1850.2	29.41
	661	1880	29.47
	810	1909.8	29.28
GPRS1900 (1 Slot)	512	1850.2	29.51
	661	1880	29.36
	810	1909.8	29.09
GPRS1900 (2 Slot)	512	1850.2	29.24
	661	1880	29.19
	810	1909.8	28.92
GPRS1900 (3 Slot)	512	1850.2	29.12
	661	1880	29.06
	810	1909.8	28.80
GPRS1900 (4 Slot)	512	1850.2	29.38
	661	1880	28.89
	810	1909.8	28.66

Mode	Channel	Frequency (MHz)	Avg.Burst Power (dBm)
EDGE (1 Slot)	512	1850.2	24.64
	661	1880	24.60
	810	1909.8	24.73
EDGE (2 Slot)	512	1850.2	24.54
	661	1880	24.43
	810	1909.8	24.59
EDGE (3 Slot)	512	1850.2	24.71
	661	1880	24.33
	810	1909.8	24.47
EDGE (4 Slot)	512	1850.2	24.59
	661	1880	24.22
	810	1909.8	24.34

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UMTS BAND II

Mode	Channel	Frequency (MHz)	Avg.Burst Power
WCDMA1900 RMC	9262	1852.4	23.97
	9400	1880	23.53
	9538	1907.6	23.73
WCDMA1900 AMR	9262	1852.4	23.67
	9400	1880	23.44
	9538	1907.6	23.71
HSDPA Subtest 1	9262	1852.4	23.88
	9400	1880	23.28
	9538	1907.6	23.77
HSDPA Subtest 2	9262	1852.4	23.04
	9400	1880	22.62
	9538	1907.6	22.96
HSDPA Subtest 3	9262	1852.4	23.03
	9400	1880	22.57
	9538	1907.6	22.83
HSDPA Subtest 4	9262	1852.4	23.05
	9400	1880	22.57
	9538	1907.6	22.90
HSUPA Subtest 1	9262	1852.4	22.85
	9400	1880	22.20
	9538	1907.6	23.22
HSUPA Subtest 2	9262	1852.4	21.78
	9400	1880	21.55
	9538	1907.6	21.62
HSUPA Subtest 3	9262	1852.4	22.29
	9400	1880	21.58
	9538	1907.6	22.15
HSUPA Subtest 4	9262	1852.4	22.55
	9400	1880	22.01
	9538	1907.6	22.48
HSUPA Subtest 5	9262	1852.4	22.53
	9400	1880	21.89
	9538	1907.6	22.19

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UMTS BAND V

Mode	Channel	Frequency (MHz)	Avg.Burst Power
WCDMA850 RMC	4132	826.4	21.11
	4182	836.4	21.26
	4233	846.6	20.91
WCDMA850 AMR	4132	826.4	21.24
	4182	836.4	21.18
	4233	846.6	21.05
HSDPA Subtest 1	4132	826.4	20.21
	4182	836.4	20.51
	4233	846.6	20.13
HSDPA Subtest 2	4132	826.4	19.51
	4182	836.4	19.49
	4233	846.6	19.48
HSDPA Subtest 3	4132	826.4	19.58
	4182	836.4	19.59
	4233	846.6	19.24
HSDPA Subtest 4	4132	826.4	19.58
	4182	836.4	19.54
	4233	846.6	19.21
HSUPA Subtest 1	4132	826.4	19.04
	4182	836.4	19.82
	4233	846.6	18.89
HSUPA Subtest 2	4132	826.4	18.82
	4182	836.4	18.97
	4233	846.6	18.67
HSUPA Subtest 3	4132	826.4	18.49
	4182	836.4	18.37
	4233	846.6	17.93
HSUPA Subtest 4	4132	826.4	19.31
	4182	836.4	19.48
	4233	846.6	19.14
HSUPA Subtest 5	4132	826.4	19.82
	4182	836.4	20.04
	4233	846.6	19.76

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6.2 RADIATED OUTPUT POWER

6.2.1 MEASUREMENT METHOD

The measurements procedures specified in ANSI/TIA-603-E-2016 were applied.

1. Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signal operating below 1GHz are performed using dipole antennas. Measurements on signals operating above 1GHz are performed using broadband horn antennas. All measurements are performed as RMS average measurements while the EUT operating at its maximum duty cycle, at maximum power, and at the approximate frequencies.
2. In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (P_{in}) is applied to the input of the dipole, and the power received (P_r) at the chamber's probe antenna is recorded.
3. The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established as $AR_{pl} = P_{in} + 2.15 - P_r$. The AR_{pl} is the attenuation of "reference path loss", and including the gain of receive antenna, the cable loss and the air loss. The measurement results are obtained as described below: $Power = P_{Mea} + AR_{pl}$
4. The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.
5. From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.
6. The EUT is then put into continuously transmitting mode at its maximum power level.
7. Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step1 is added to this result.
8. This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (P_{in}).
9. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15dBi...$

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6.2.2 PROVISIONS APPLICABLE

Mode	FCC Part Section(s)	Nominal Peak Power
GSM/EDGE 850	22.913(a)(2)	$\leq 38.45\text{dBm}$ (7W). ERP
GSM/EDGE 1900	24.232(c)	$\leq 33\text{dBm}$ (2W). EIRP
UMTS BAND II	24.232(c)	$\leq 33\text{dBm}$ (2W).EIRP
UMTS BANDV	22.913(a)(2)	$\leq 38.45\text{dBm}$ (7W).ERP

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6.2.3 MEASUREMENT RESULT

Radiated Power (ERP) for GSM/EDGE 850				
Mode	Frequency	Result		Conclusion
		Max. Peak ERP (dBm)	Polarization Of Max. ERP	
GSM	824.2	32.51	Horizontal	Pass
	836.6	32.86	Horizontal	Pass
	848.8	32.44	Horizontal	Pass
	824.2	30.65	Vertical	Pass
	836.6	30.91	Vertical	Pass
	848.8	29.94	Vertical	Pass
GPRS	824.2	32.73	Horizontal	Pass
	836.6	32.67	Horizontal	Pass
	848.8	31.95	Horizontal	Pass
	824.2	30.41	Vertical	Pass
	836.6	30.11	Vertical	Pass
	848.8	30.41	Vertical	Pass
EDGE	824.2	24.13	Horizontal	Pass
	836.6	24.27	Horizontal	Pass
	848.8	24.33	Horizontal	Pass
	824.2	21.85	Vertical	Pass
	836.6	22.26	Vertical	Pass
	848.8	22.14	Vertical	Pass

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Radiated Power (E.I.R.P) for GSM/EDGE 1900				
Mode	Frequency	Result		Conclusion
		Max. Peak E.I.R.P.(dBm)	Polarization Of Max. E.I.R.P.	
GSM	1850.2	27.42	Horizontal	Pass
	1880.0	27.23	Horizontal	Pass
	1909.8	26.99	Horizontal	Pass
	1850.2	26.15	Vertical	Pass
	1880.0	25.63	Vertical	Pass
	1909.8	25.26	Vertical	Pass
GPRS	1850.2	27.64	Horizontal	Pass
	1880.0	27.46	Horizontal	Pass
	1909.8	26.83	Horizontal	Pass
	1850.2	25.85	Vertical	Pass
	1880.0	25.36	Vertical	Pass
	1909.8	24.67	Vertical	Pass
EDGE	1850.2	22.74	Horizontal	Pass
	1880.0	22.61	Horizontal	Pass
	1909.8	22.84	Horizontal	Pass
	1850.2	21.45	Vertical	Pass
	1880.0	20.61	Vertical	Pass
	1909.8	20.52	Vertical	Pass

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Radiated Power (E.I.R.P) for UMTS band II				
Mode	Frequency	Result		Conclusion
		Max. Peak E.I.R.P (dBm)	Polarization Of Max. E.I.R.P	
UMTS	1852.4	22.14	Horizontal	Pass
	1880	21.92	Horizontal	Pass
	1907.6	22.21	Horizontal	Pass
	1852.4	20.86	Vertical	Pass
	1880	20.64	Vertical	Pass
	1907.6	20.77	Vertical	Pass

Radiated Power (ERP) for UMTS band V				
Mode	Frequency	Result		Conclusion
		Max. Peak ERP (dBm)	Polarization Of Max. ERP	
UMTS	826.4	19.65	Horizontal	Pass
	836.4	19.76	Horizontal	Pass
	846.6	19.31	Horizontal	Pass
	826.4	17.66	Vertical	Pass
	836.4	18.21	Vertical	Pass
	846.6	18.02	Vertical	Pass

Note: Above is the worst mode data.

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6.3. PEAK-TO-AVERAGE RATIO

6.3.1 MEASUREMENT METHOD

Use one of the procedures presented in 4.1 to measure the total peak power and record as PPK. Use one of the applicable procedures presented 4.2 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$\text{PAPR (dB)} = \text{PPk (dBm)} - \text{PAvg (dBm)}.$$

6.3.2 PROVISIONS APPLICABLE

This is the test for the Peak-to-Average Ratio from the EUT.

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

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6.3.3 MEASUREMENT RESULT

Modes	GSM850(GSM)		
Channel	128	190	251
	(Low)	(Mid)	(High)
Frequency (MHz)	824.2	836.6	848.8
Peak-To-Average Ratio (dB)/GSM	1.58	1.47	1.43
Peak-To-Average Ratio (dB)/EDGE	1.11	1.21	1.15

Modes	PCS1900 (GSM)		
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency (MHz)	1850.2	1880	1909.8
Peak-To-Average Ratio (dB)/GSM	0.84	0.85	0.81
Peak-To-Average Ratio (dB)/EDGE	1.26	1.11	1.23

Modes	UMTS BAND II		
Channel	9262	9400	9538
	(Low)	(Mid)	(High)
Frequency (MHz)	1852.4	1880	1907.6
Peak-To-Average Ratio (dB)	1.42	1.35	1.41

Modes	UMTS BAND V		
Channel	4132	4182	4233
	(Low)	(Mid)	(High)
Frequency (MHz)	826.4	836.4	846.6
Peak-To-Average Ratio (dB)	1.33	1.28	1.42

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7. OCCUPIED BANDWIDTH

7.1 MEASUREMENT METHOD

1. The Occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper Frequency limits, the mean power radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.
2. RBW=1~5% of the expected OBW, VBW>=3 x RBW, Detector=Peak, Trace mode=max hold, Sweep=auto couple, and the trace was allowed to stabilize.

7.2 PROVISIONS APPLICABLE

The emission bandwidth is defined as two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power

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7.3 MEASUREMENT RESULT

Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
GSM850	GSM	LCH	244.8	305.1	PASS
		MCH	242.5	301.0	PASS
		HCH	241.6	308.5	PASS
	EDGE	LCH	239.8	299.9	PASS
		MCH	246.7	304.0	PASS
		HCH	241.1	298.9	PASS

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
GSM1900	GSM	LCH	241.7	302.9	PASS
		MCH	240.5	303.0	PASS
		HCH	243.0	298.9	PASS
	EDGE	LCH	247.6	308.9	PASS
		MCH	246.1	310.5	PASS
		HCH	245.0	303.3	PASS

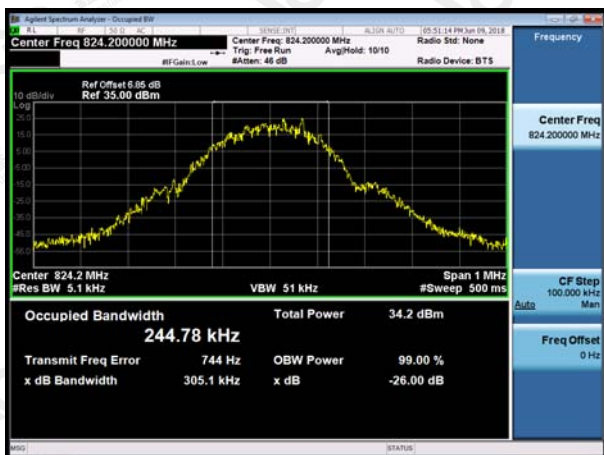
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

For GSM

Test Band=GSM850/PCS1900

Test Mode=GSM/EDGE

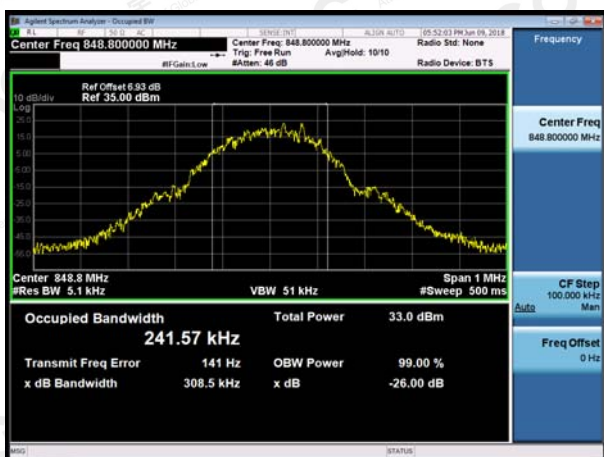
GSM 850-LCH-GSM



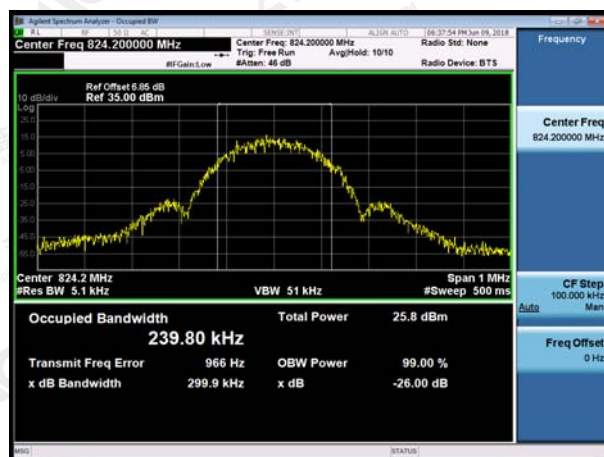
GSM 850-MCH-GSM



GSM 850-HCH-GSM

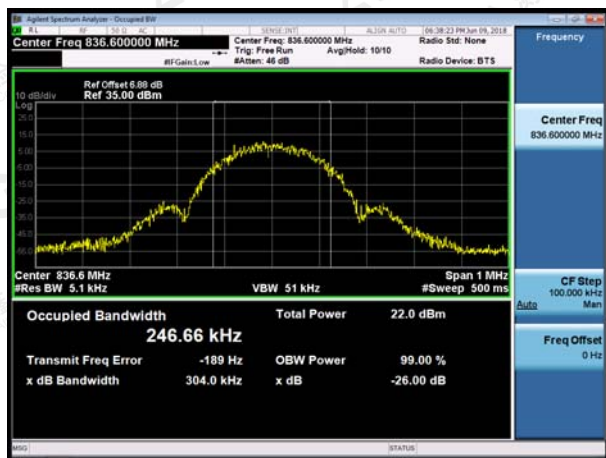


GSM 850-LCH-EDGE

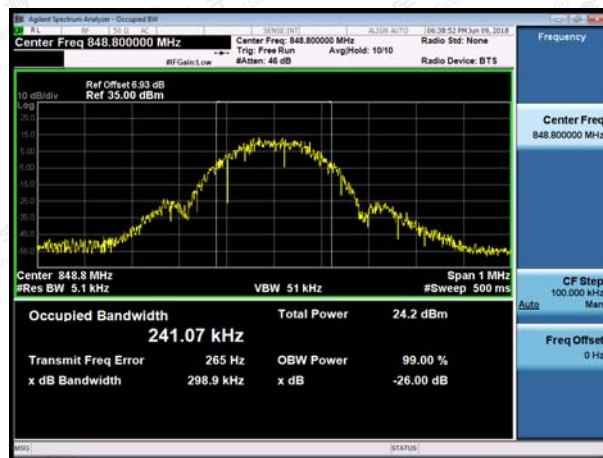


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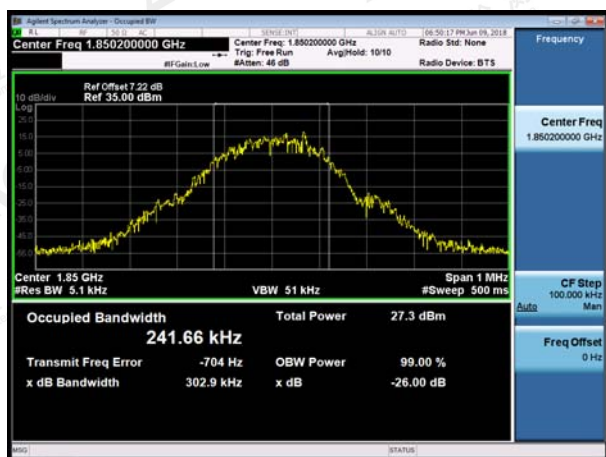
GSM 850-MCH-EDGE



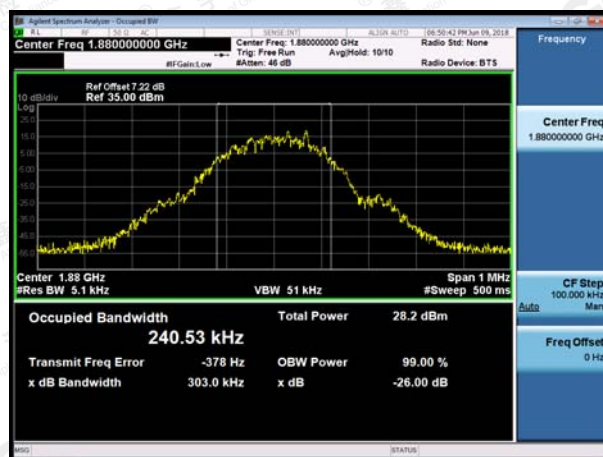
GSM 850-HCH-EDGE



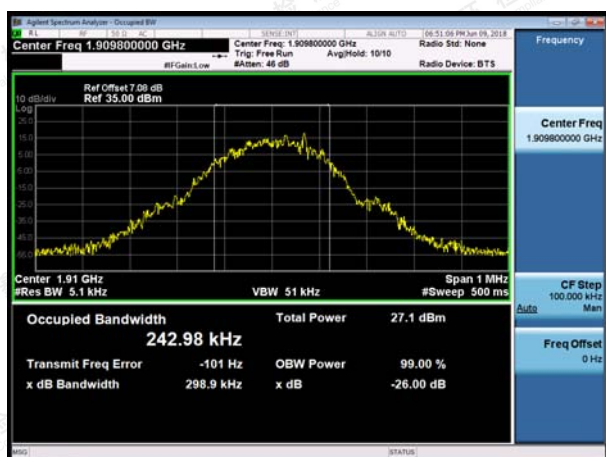
GSM 1900-LCH-GSM



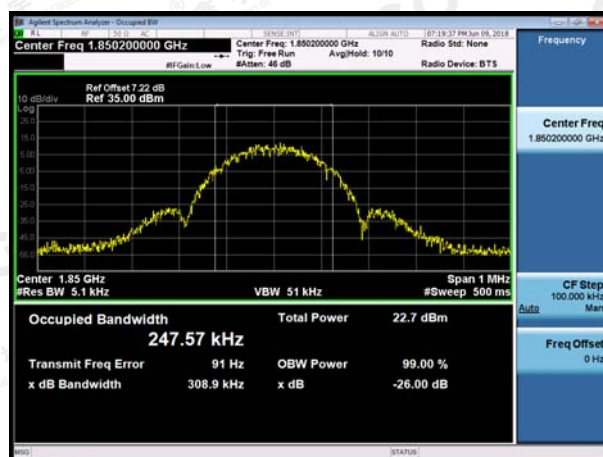
GSM 1900-MCH-GSM



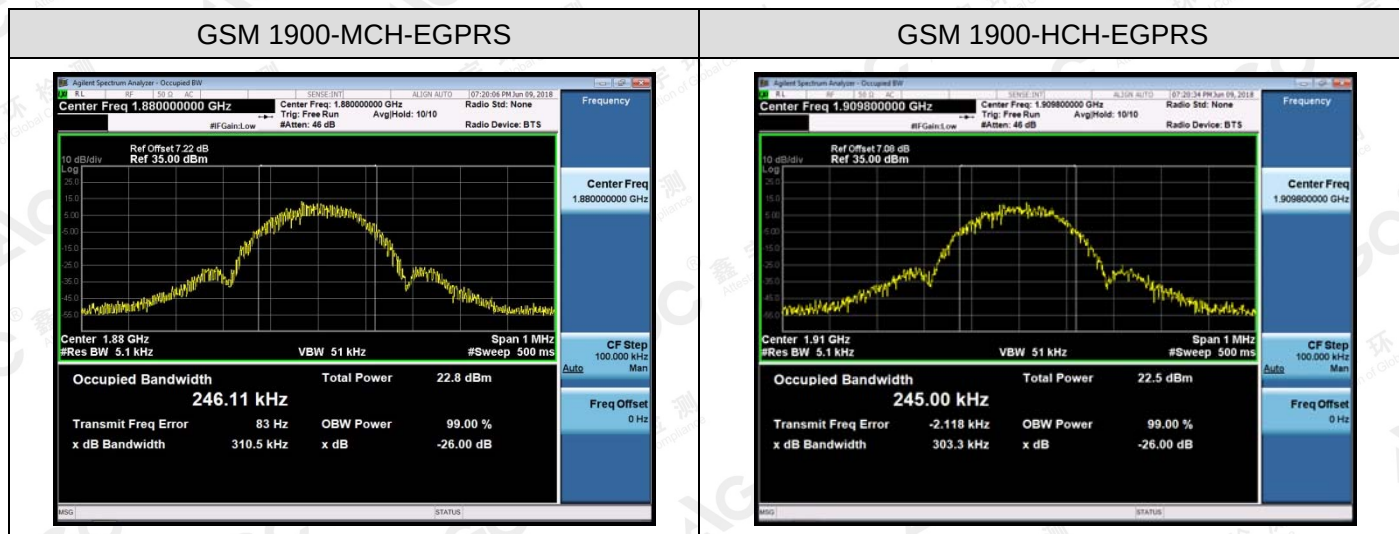
GSM 1900-HCH-GSM



GSM 1900-LCH-EGPRS



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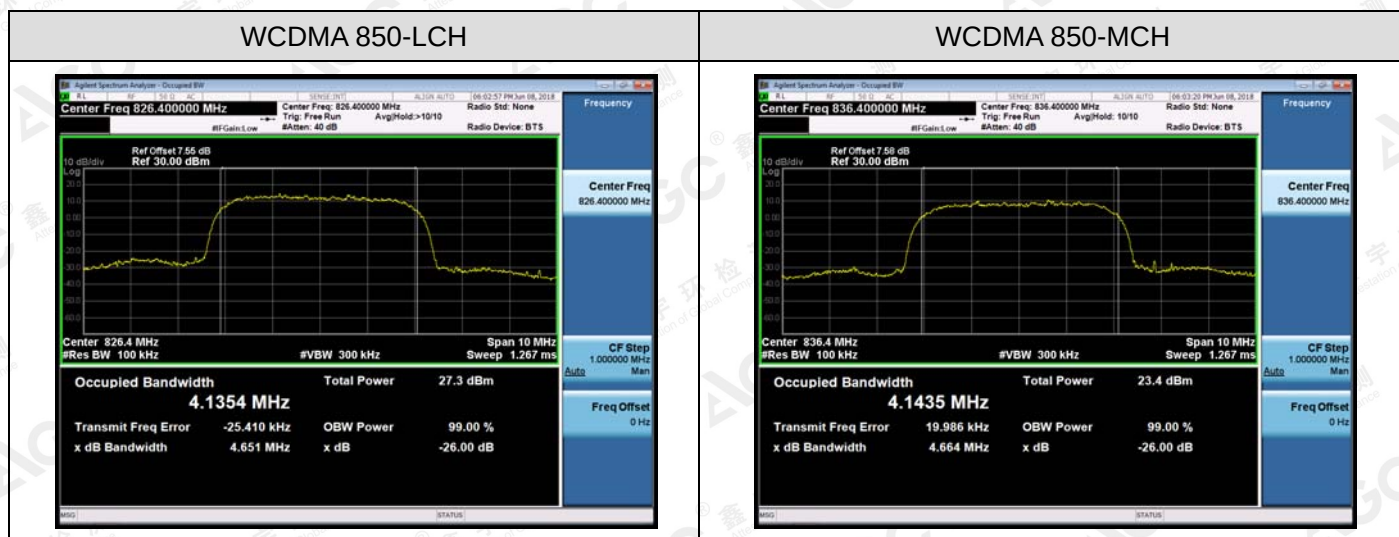
Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
WCDMA 850	UMTS	LCH	4135.4	4651	PASS
		MCH	4143.5	4664	PASS
		HCH	4139.1	4656	PASS

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
WCDMA 1900	UMTS	LCH	4149.5	4685	PASS
		MCH	4148.9	4686	PASS
		HCH	4147.6	4686	PASS

For WCDMA

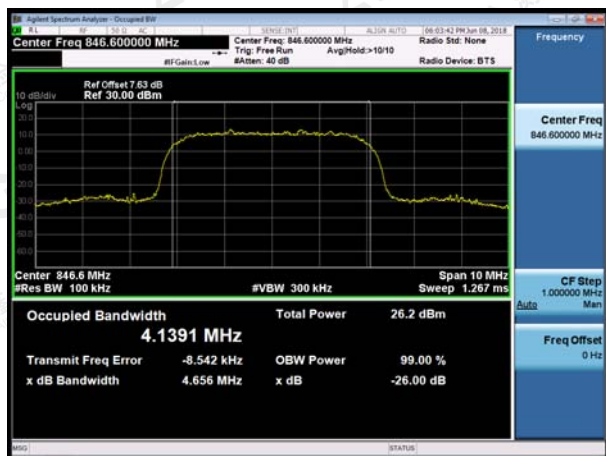
Test Band=WCDMA850/WCDMA1900

Test Mode=UMTS



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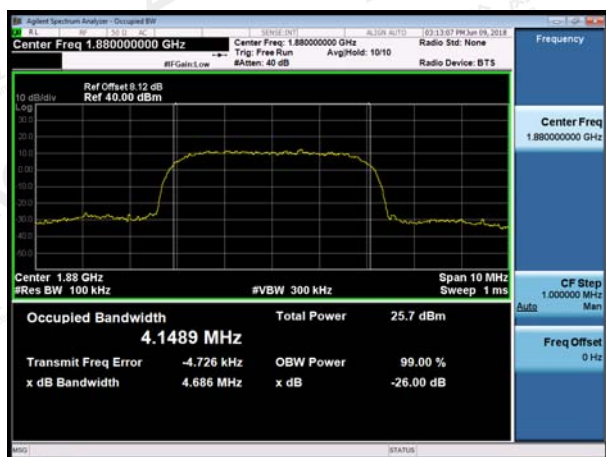
WCDMA 850-HCH



WCDMA 1900-LCH



WCDMA 1900-MCH



WCDMA 1900-HCH



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8. BAND EDGE

8.1 MEASUREMENT METHOD

1. All out of band emissions are measured with an analyzer spectrum connected to the antenna terminal of the EUT while the EUT at its maximum duty cycle, at maximum power, and at the approximate frequencies. All data rates were investigated to determine the worst case configuration
2. The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.
3. Start and stop frequency were set such that the band edge would be placed in the center of the plot.
4. Span was set large enough so as to capture all out of band emissions near the band edge.
5. RBW>1% of the emission bandwidth, VBW $\geq 3 \times$ RBW, Detector=RMS, Number of points $\geq 2 \times$ Span/RBW, Trace mode=max hold, Sweep time=auto couple, and the trace was allowed to stabilize

8.2 PROVISIONS APPLICABLE

As Specified in FCC rules of 22.917(a) 、 24.238(a)and KDB 971168 D1 V03R01.

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8.3 MEASUREMENT RESULT

Test Results

For GSM

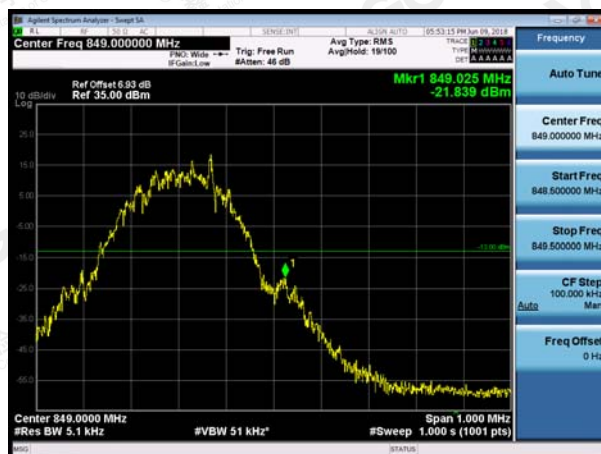
Test Band=GSM850/GSM1900

Test Mode=GSM/EDGE

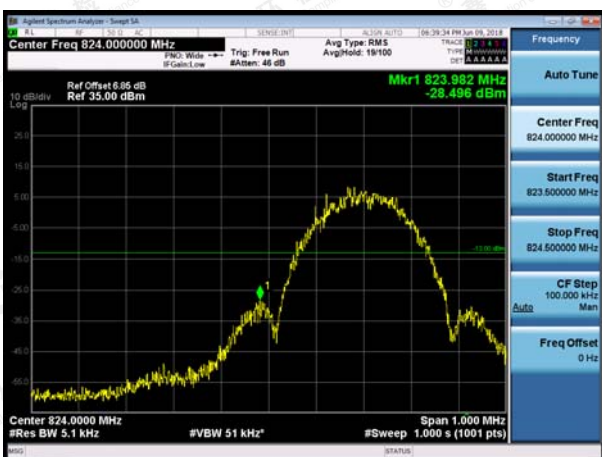
GSM 850-LCH-GSM



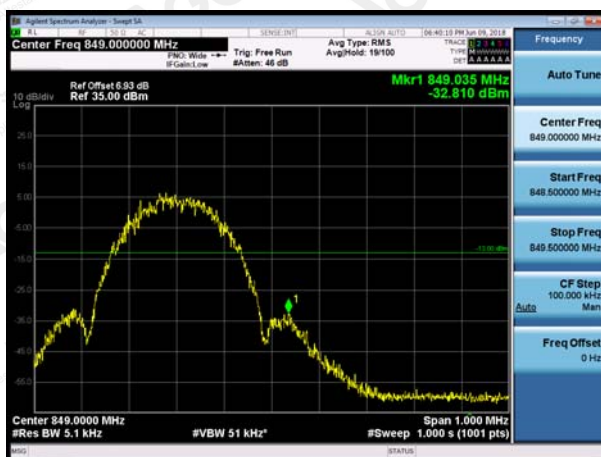
GSM 850-HCH-GSM



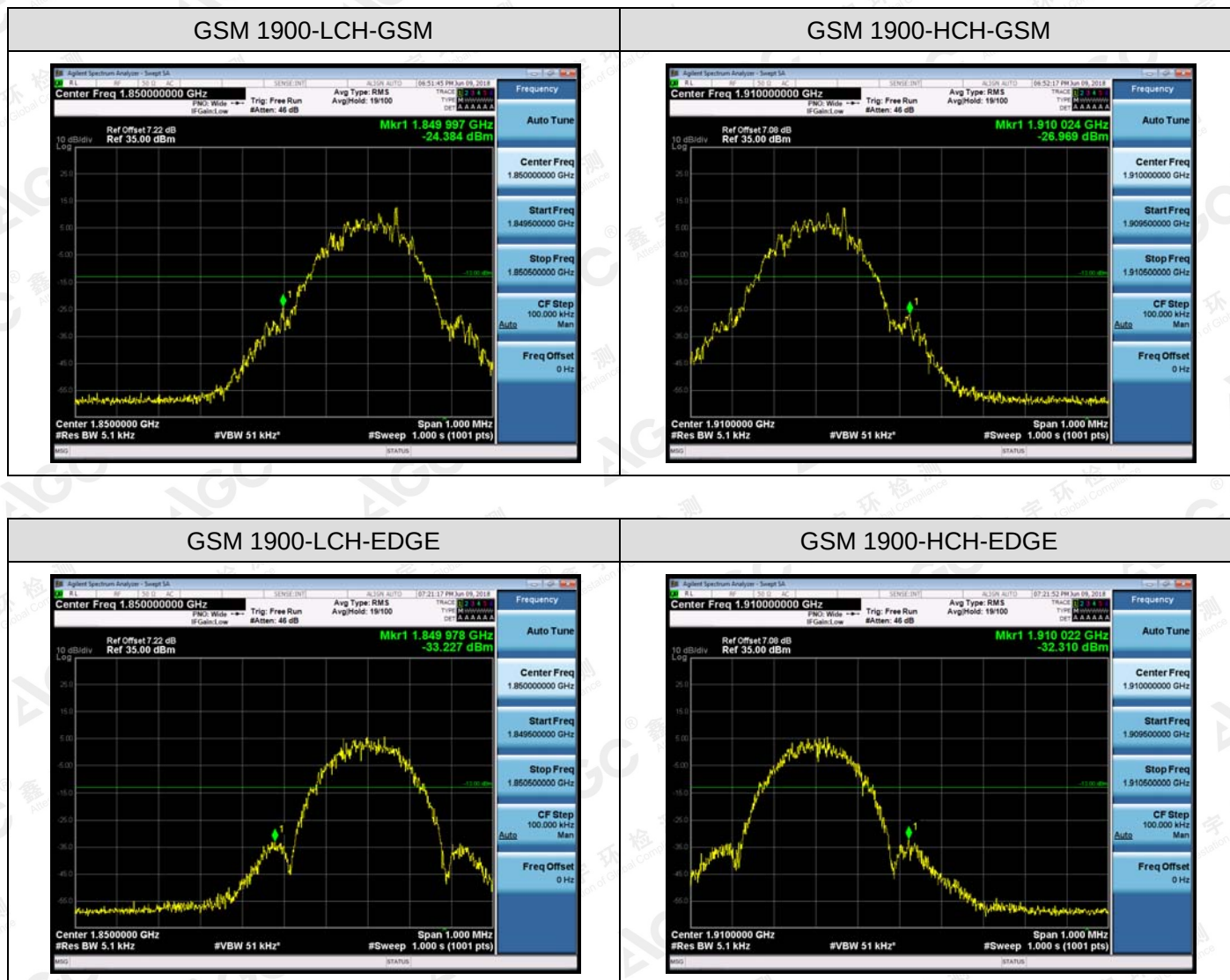
GSM 850-LCH-EDGE



GSM 850-HCH-EDGE



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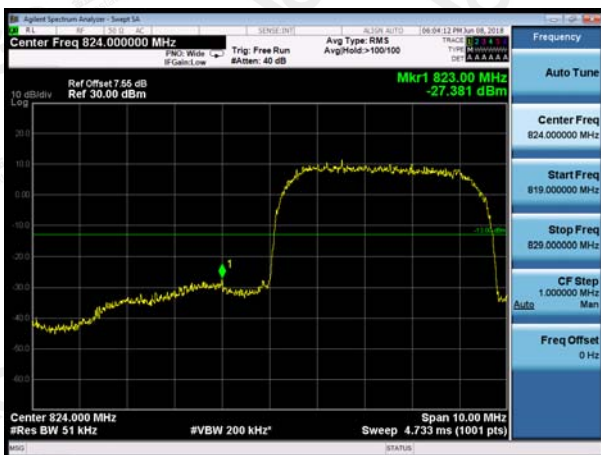
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For WCDMA

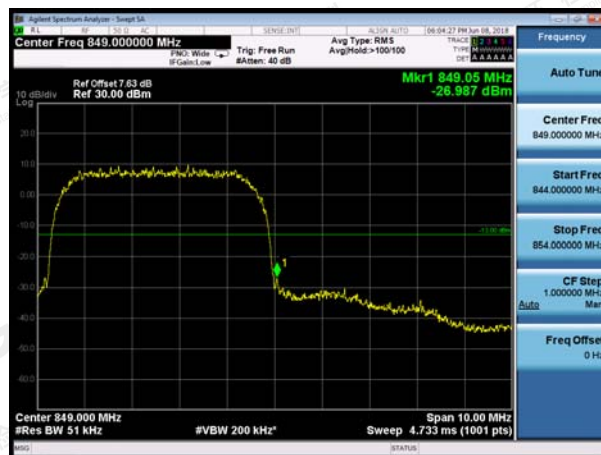
Test Band=WCDMA850/WCDMA1900

Test Mode=UMTS

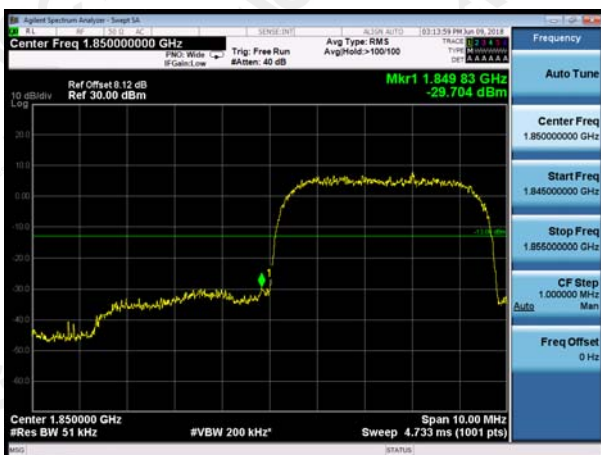
WCDMA 850-LCH



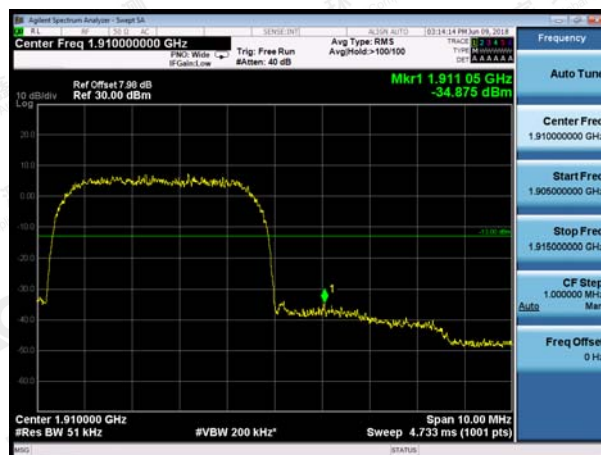
WCDMA 850-HCH



WCDMA 1900-LCH



WCDMA 1900-HCH



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9. SPURIOUS EMISSION

9.1 CONDUCTED SPURIOUS EMISSION

9.1.1 MEASUREMENT METHOD

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. The level of the carrier and the various conducted spurious and harmonic frequency is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the approximate frequencies. All data rates were investigated to determine the worst case configuration.
2. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the equipment of PCS1900 band, this equates to a frequency range of 30 MHz to 19.1 GHz, data taken from 30 MHz to 20 GHz. For GSM850, data taken from 30 MHz to 9 GHz.
3. Determine EUT transmit frequencies: the following typical channels were chosen to conducted emissions testing.

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Typical Channels for testing of GSM 850

Channel	Frequency (MHz)
128	824.2
190	836.6
251	848.8

Typical Channels for testing of PCS 1900

Channel	Frequency (MHz)
512	1850.2
661	1880.0
810	1909.8

Typical Channels for testing of UMTS band II

Channel	Frequency (MHz)
9262	1852.4
9400	1880
9538	1907.6

Typical Channels for testing of UMTS band V

Channel	Frequency (MHz)
4132	846.4
4182	836.4
4233	846.6

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9.1.2 PROVISIONS APPLICABLE

On any frequency outside frequency band of the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least $43+10\log(P)$ dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

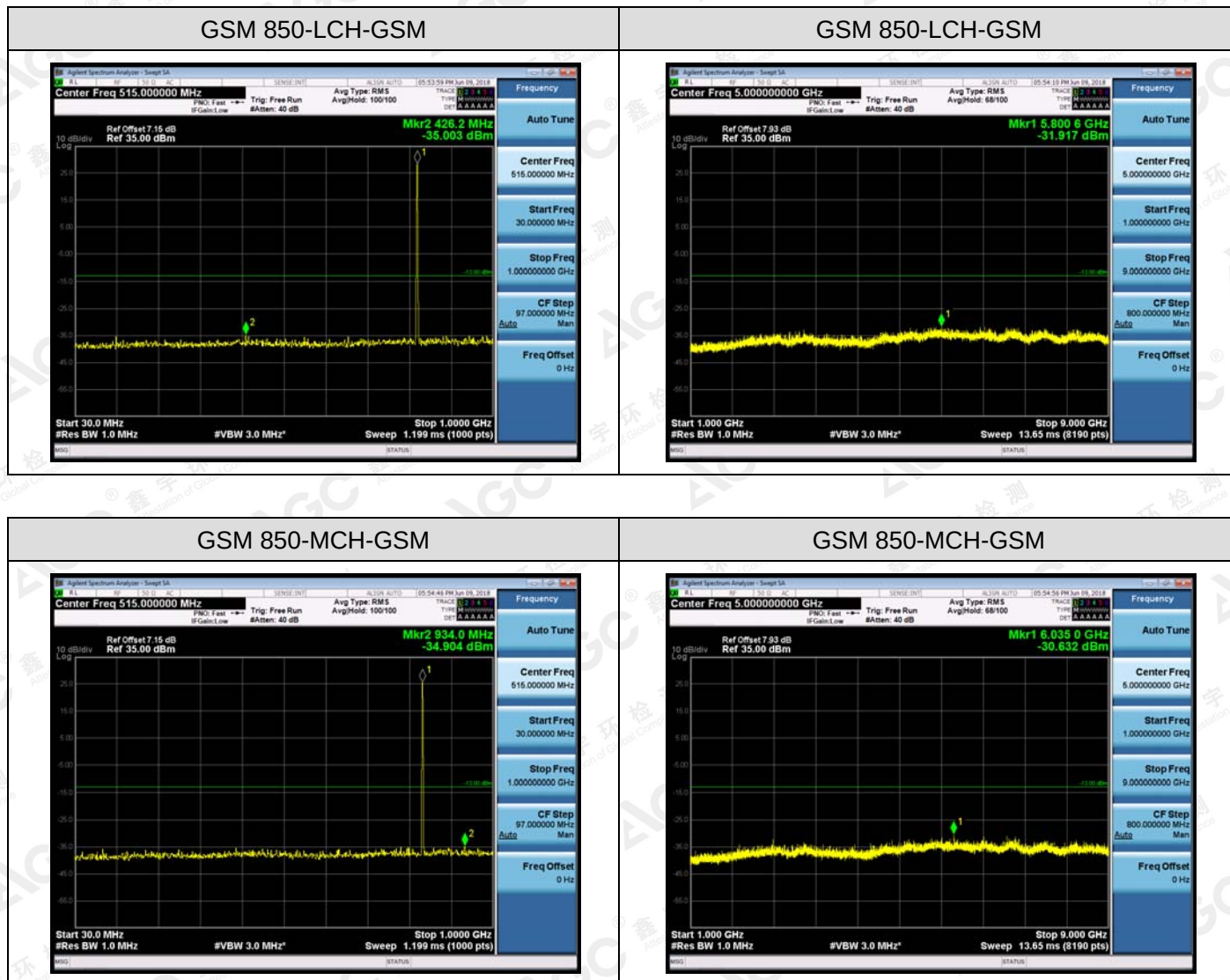
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9.1.3 MEASUREMENT RESULT

Test Results

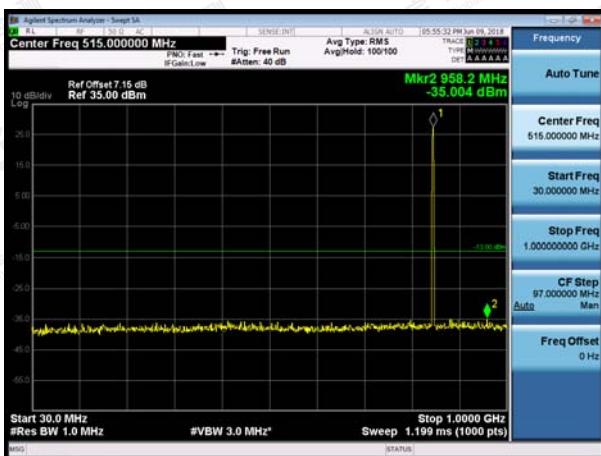
Test Band=GSM850/GSM1900

Test Mode=GSM/EDGE

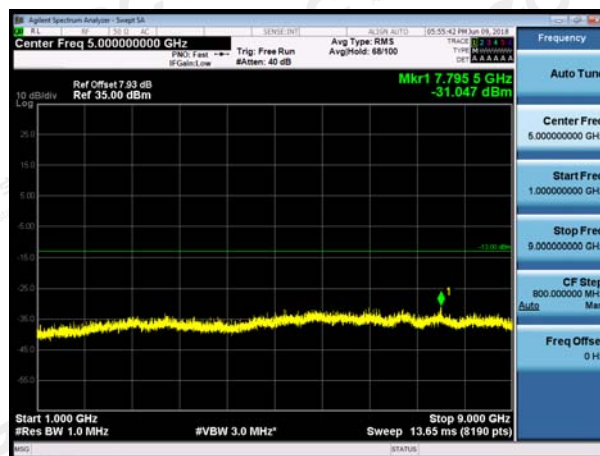


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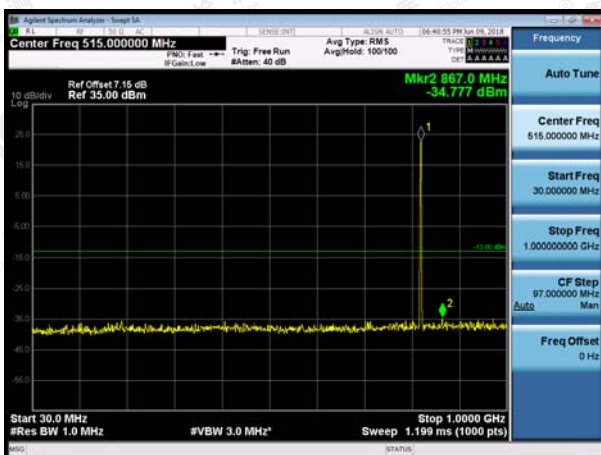
GSM 850-HCH-GSM



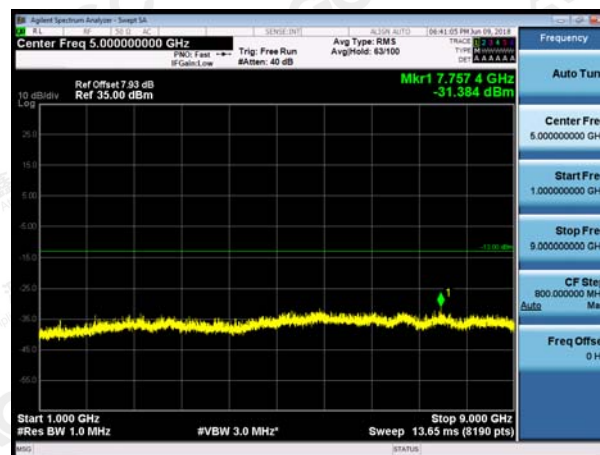
GSM 850-HCH-GSM



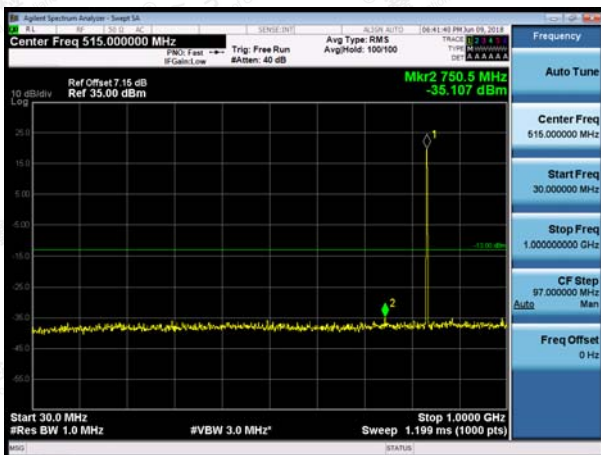
GSM 850-LCH-EDGE



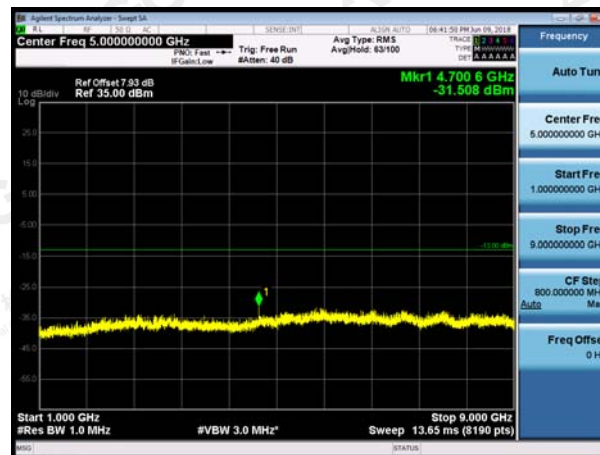
GSM 850-LCH-EDGE



GSM 850-MCH-EDGE

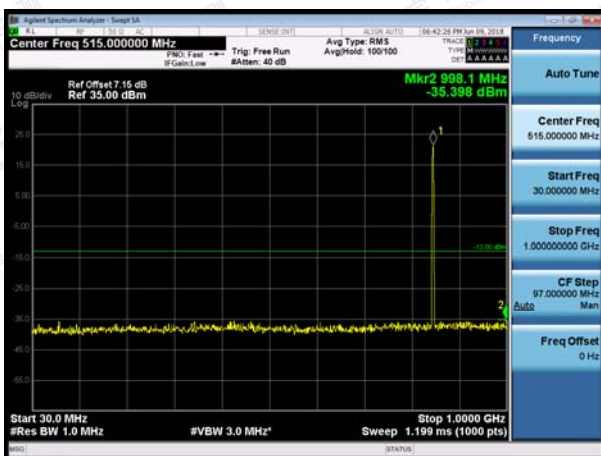


GSM 850-MCH-EDGE

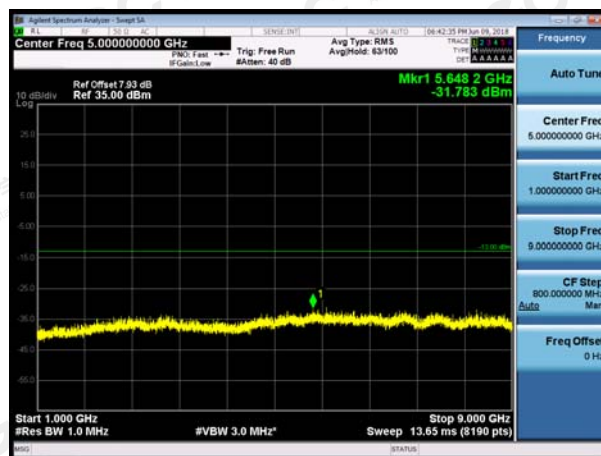


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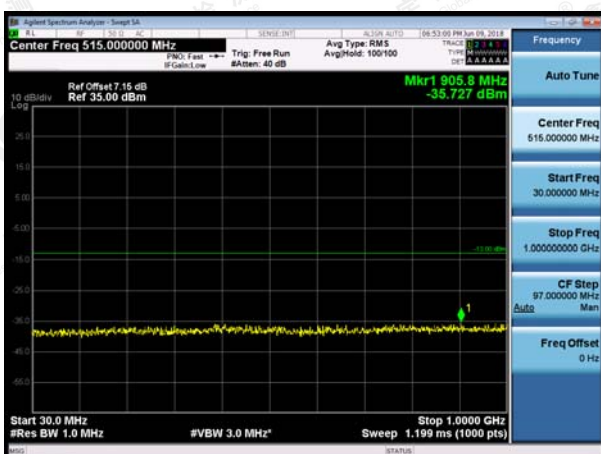
GSM 850-HCH-EDGE



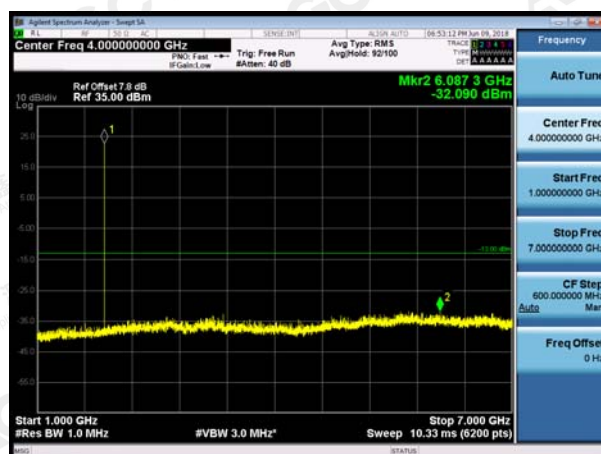
GSM 850-HCH-EDGE



GSM 1900-LCH-GSM



GSM 1900-LCH-GSM



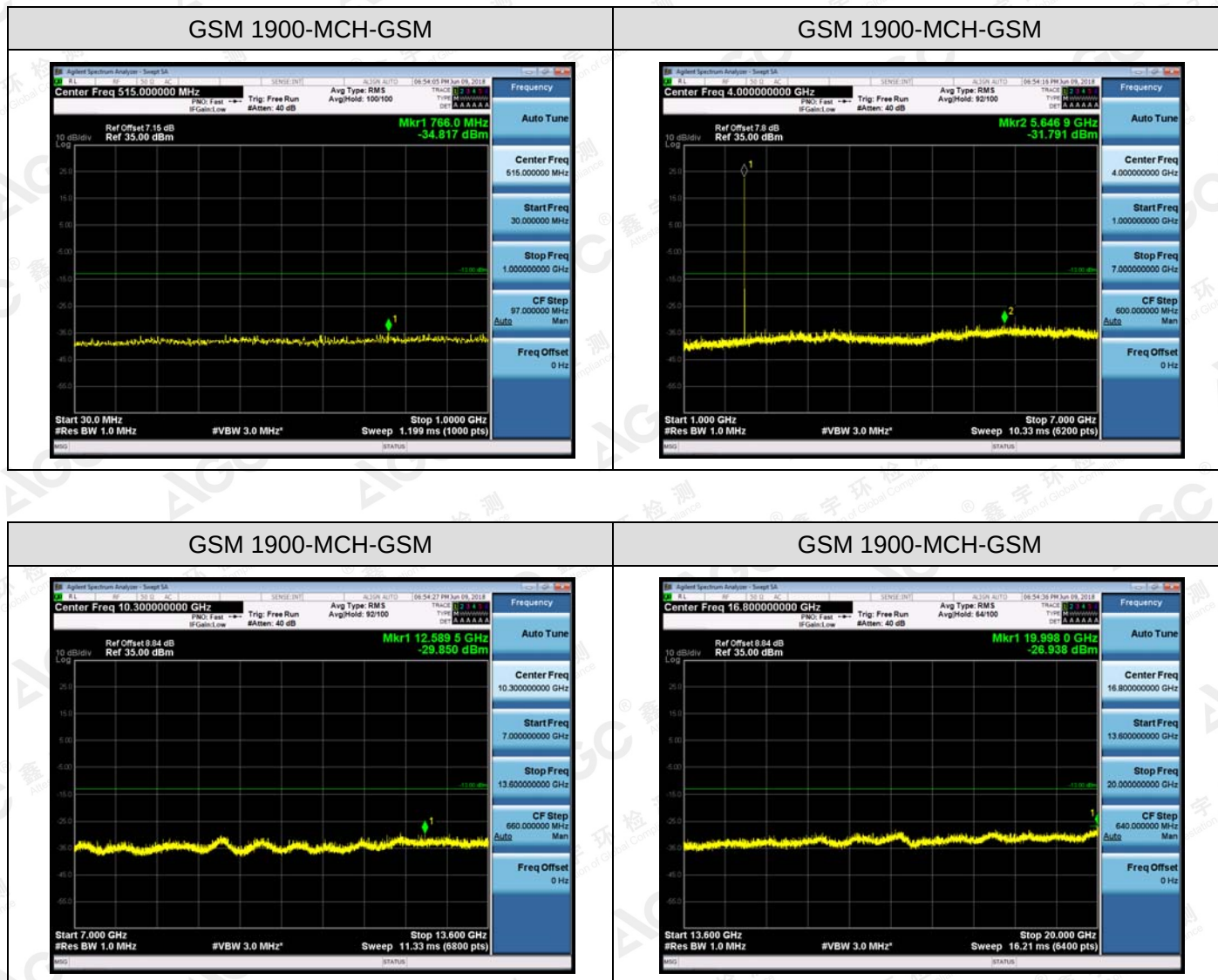
GSM 1900-LCH-GSM



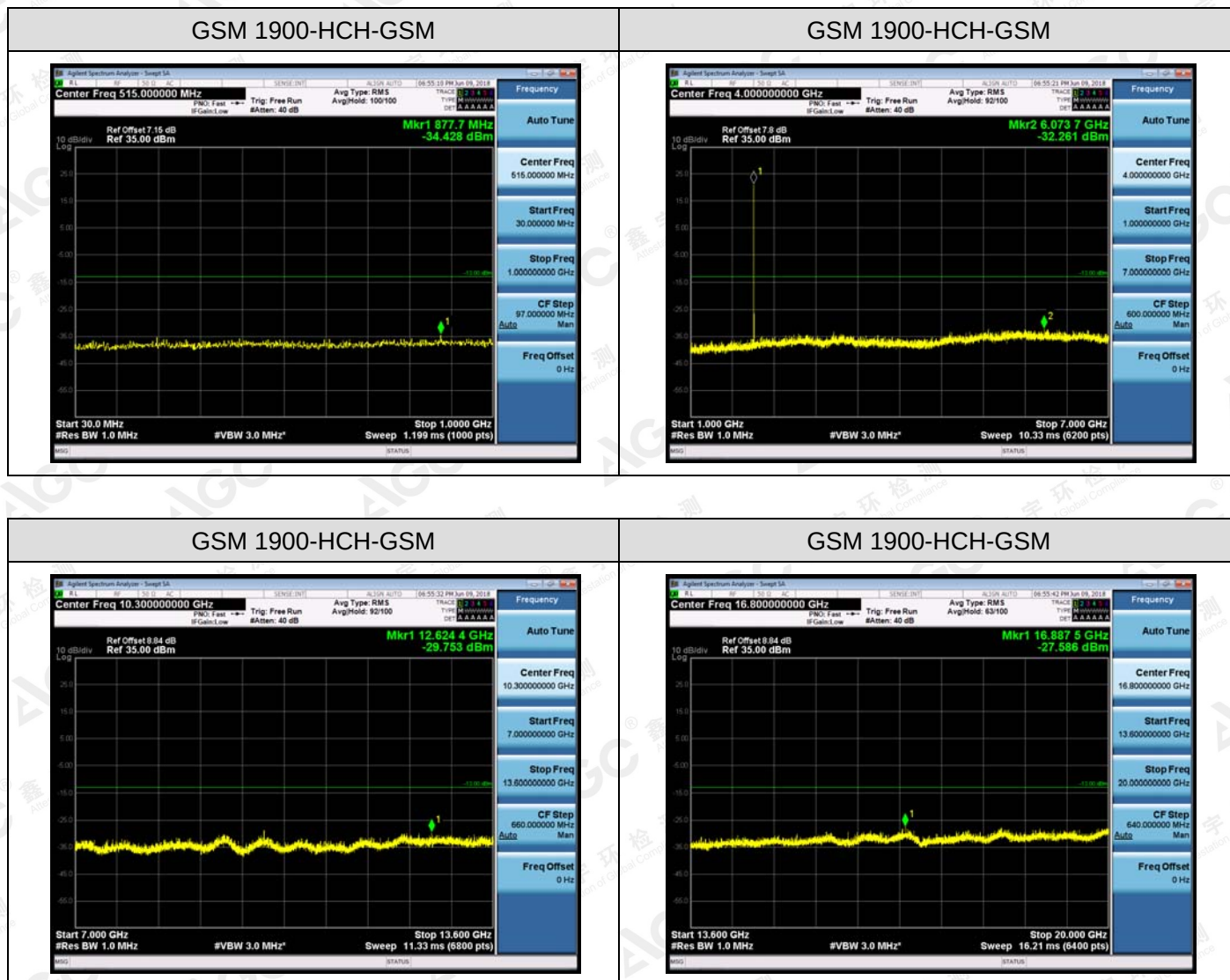
GSM 1900-LCH-GSM



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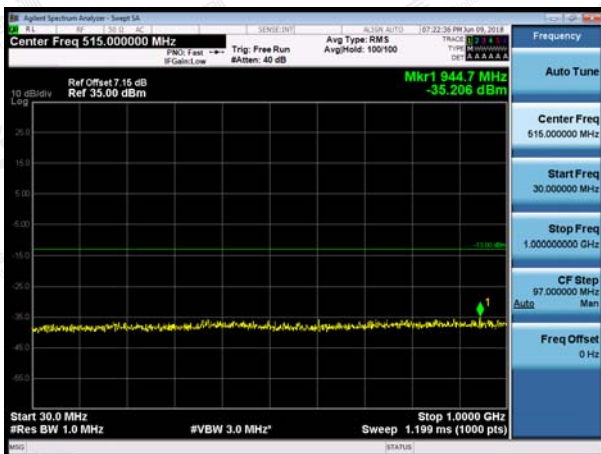


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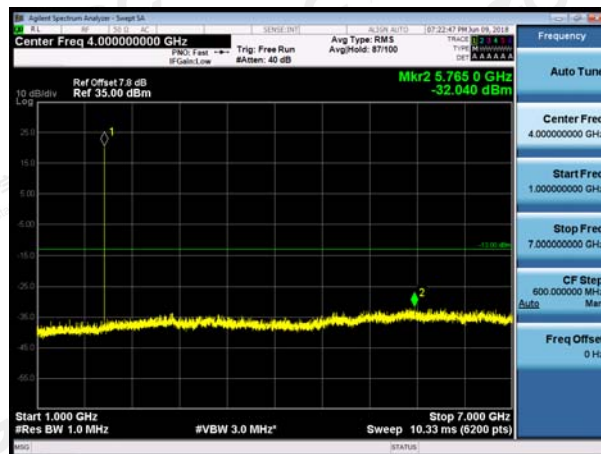


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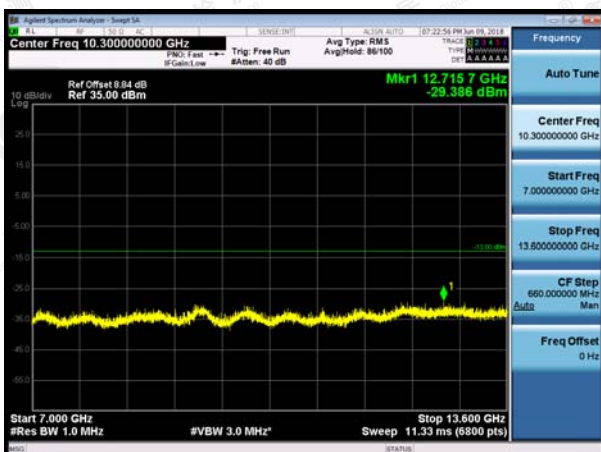
GSM 1900-LCH-EDGE



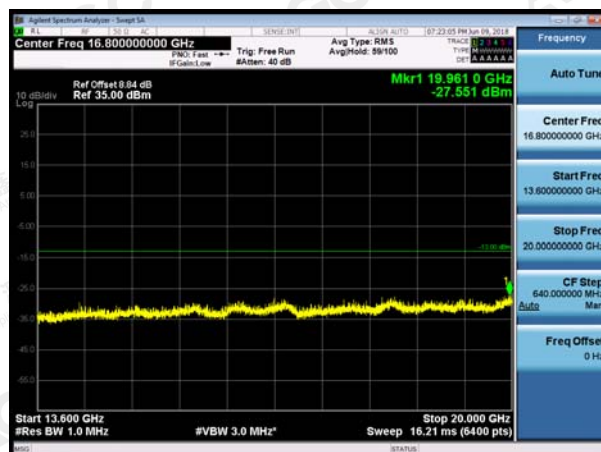
GSM 1900- LCH-EDGE



GSM 1900-LCH-EDGE



GSM 1900- LCH-EDGE

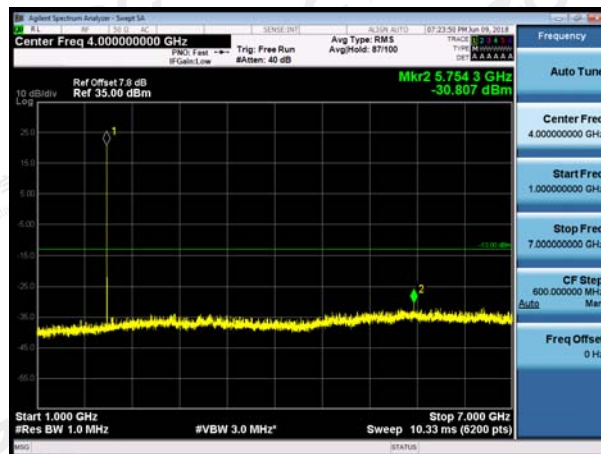


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GSM 1900-MCH-EDGE



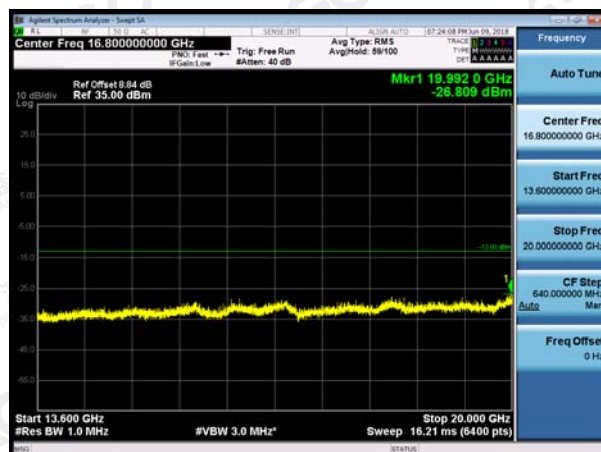
GSM 1900- MCH-EDGE



GSM 1900-MCH-EDGE

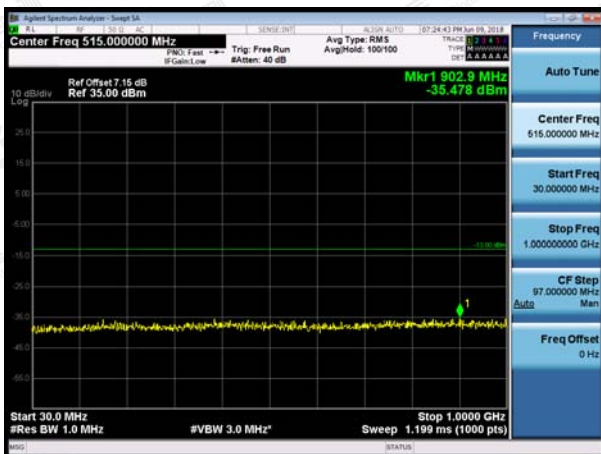


GSM 1900- MCH-EDGE

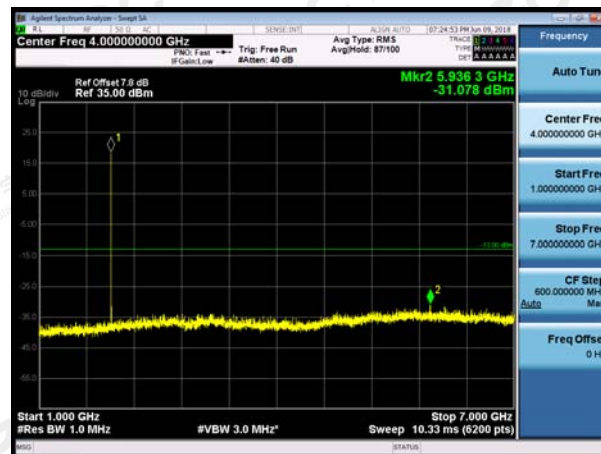


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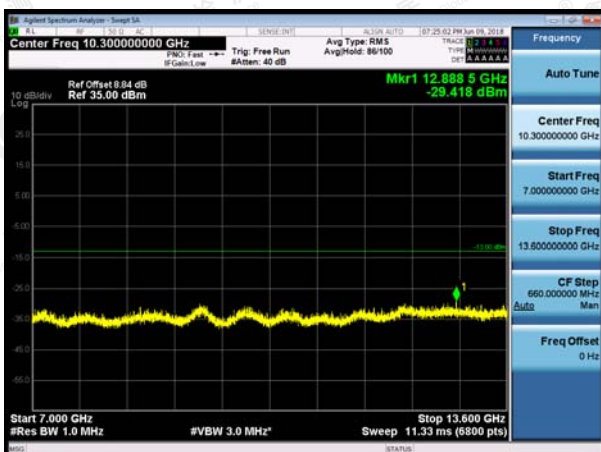
GSM 1900-HCH-EDGE



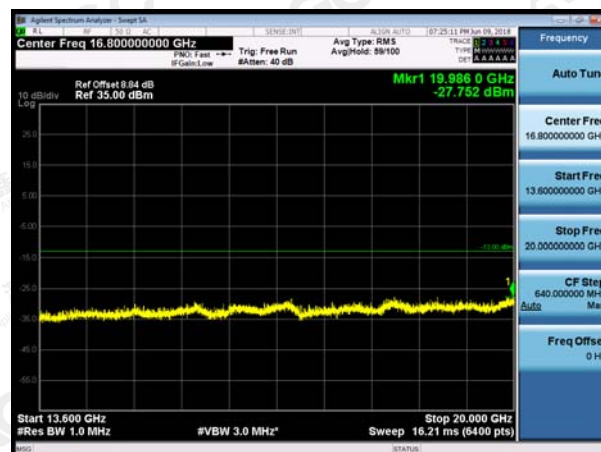
GSM 1900- HCH-EDGE



GSM 1900- HCH-EDGE



GSM 1900- HCH-EDGE

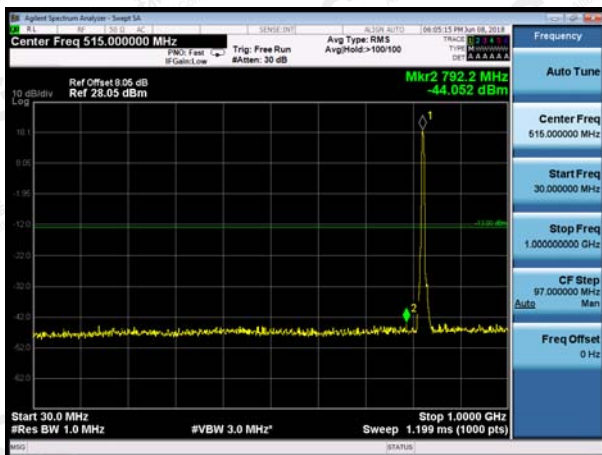


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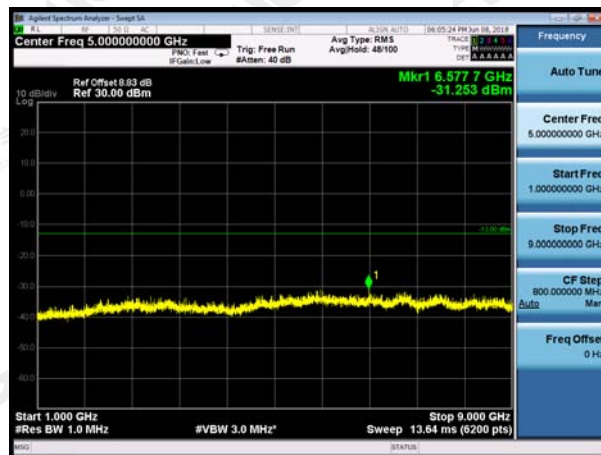
Test Band=WCDMA850/WCDMA1900

Test Mode=UMTS

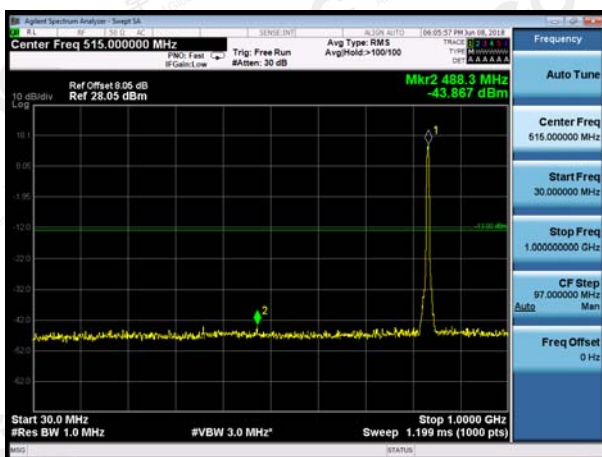
WCDMA 850-LCH



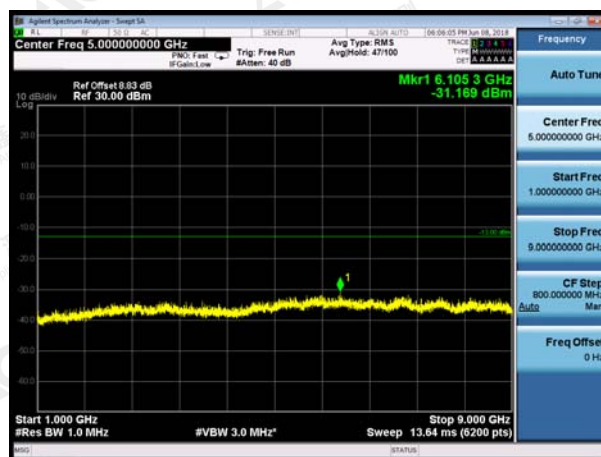
WCDMA 850-LCH



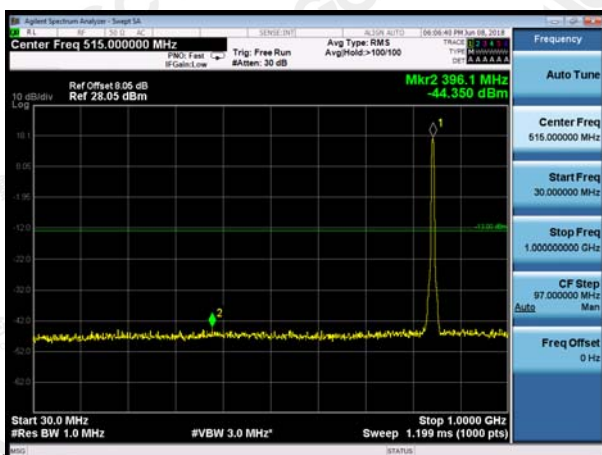
WCDMA 850-MCH



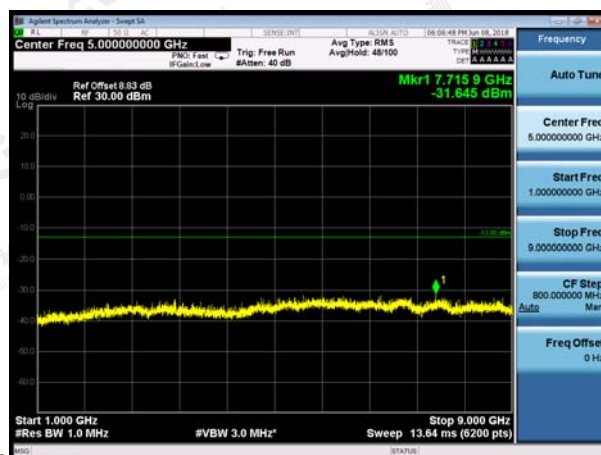
WCDMA 850-MCH



WCDMA 850-HCH

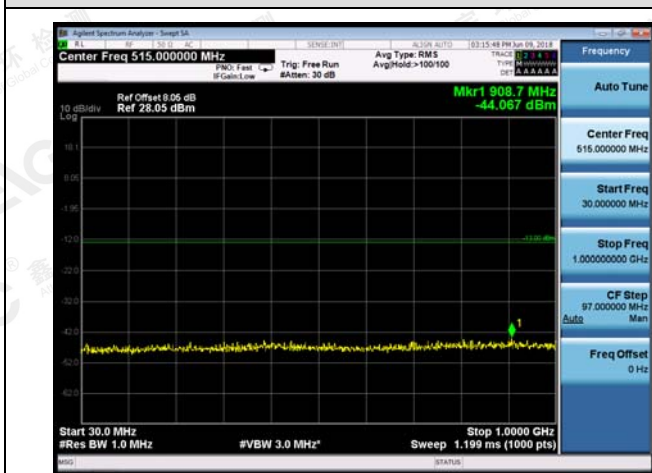


WCDMA 850-HCH

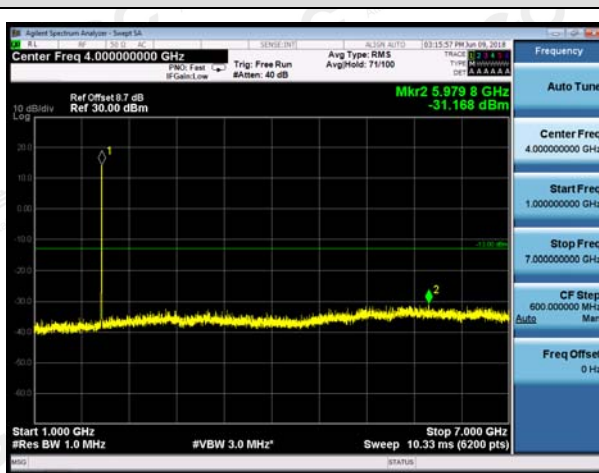


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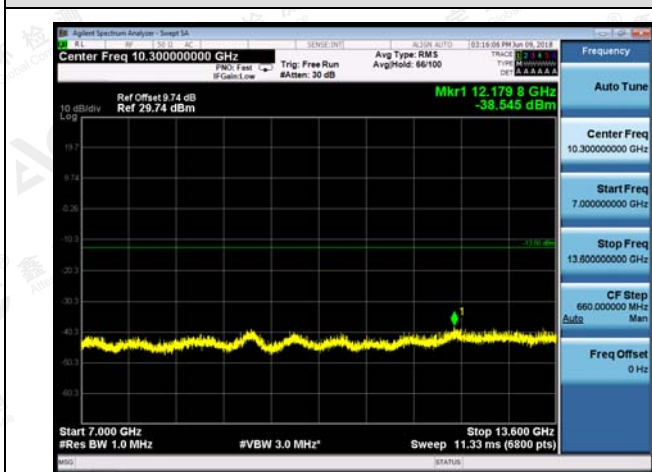
WCDMA 1900-LCH



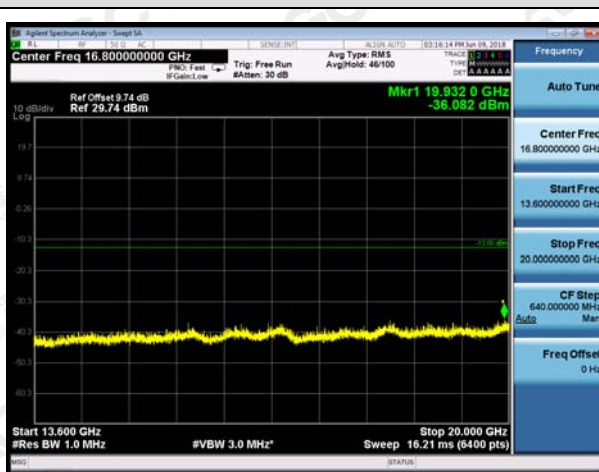
WCDMA 1900-LCH



WCDMA 1900-LCH

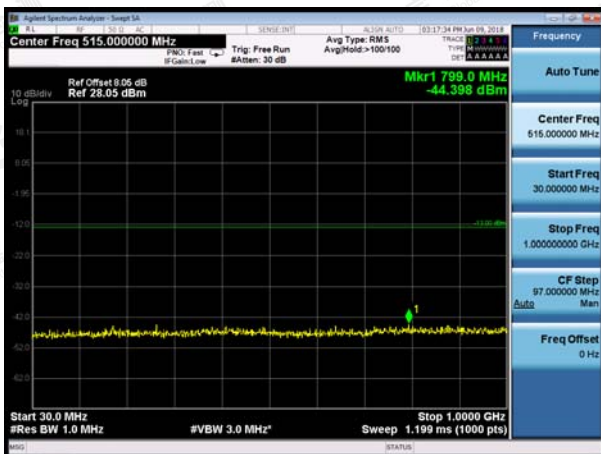


WCDMA 1900-LCH

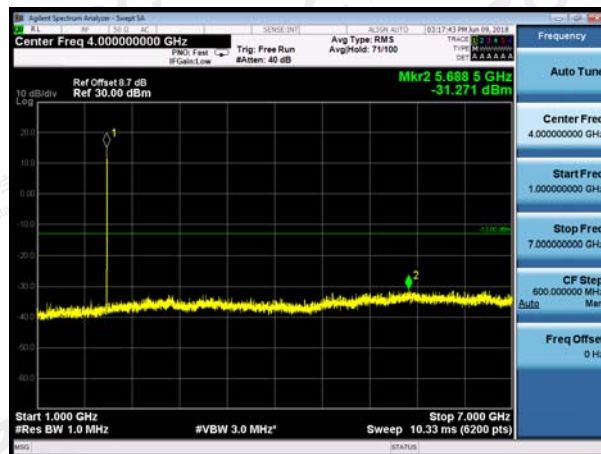


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WCDMA 1900-MCH



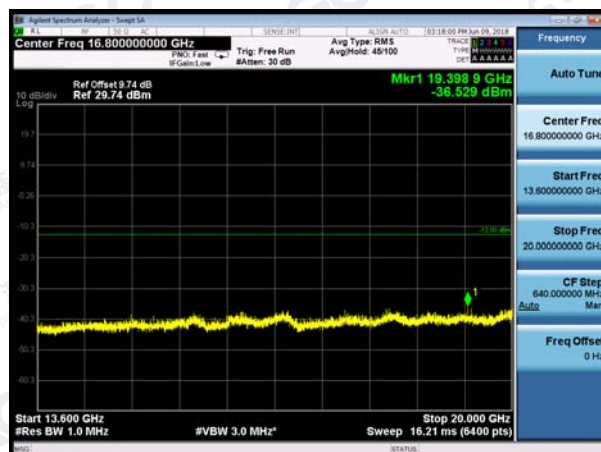
WCDMA 1900-MCH



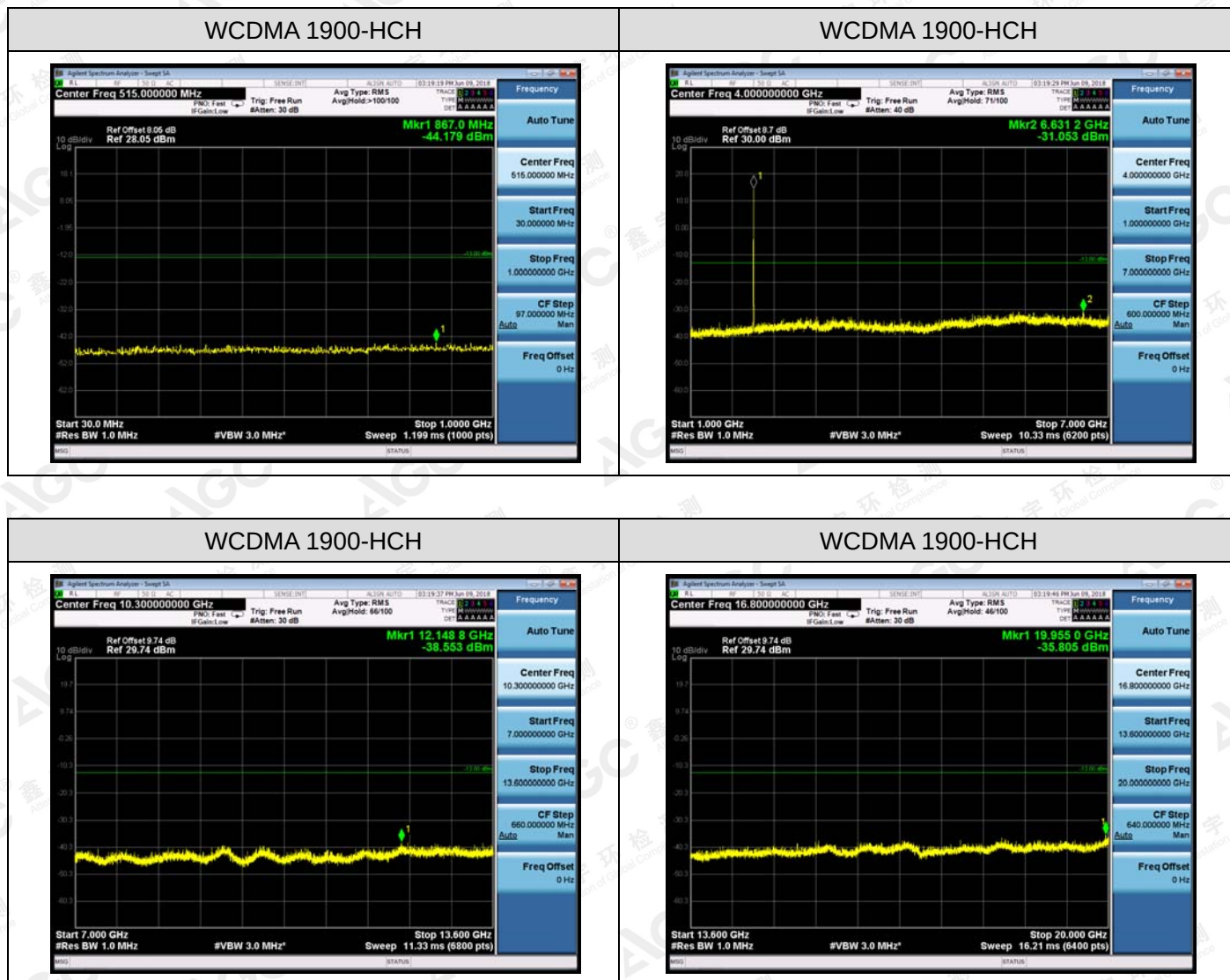
WCDMA 1900-MCH



WCDMA 1900-MCH



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Note: 1. Below 30MHz no Spurious found and Above is the worst mode data.

2. As no emission found in standby or receive mode, no recording in this report.

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9.2 RADIATED SPURIOUS EMISSION

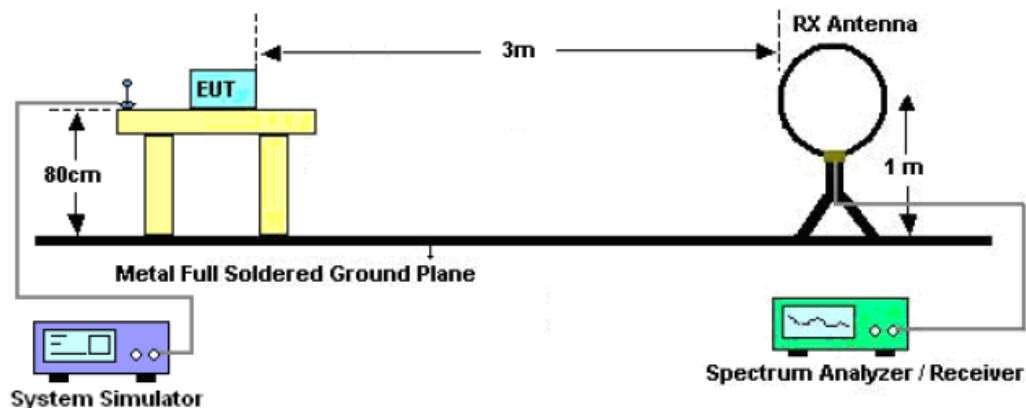
9.2.1 MEASUREMENT METHOD

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

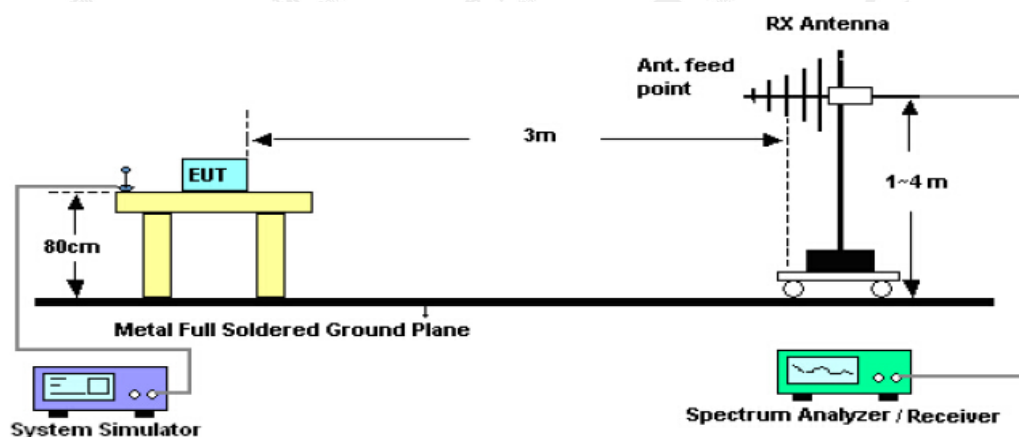
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9.2.2 TEST SETUP

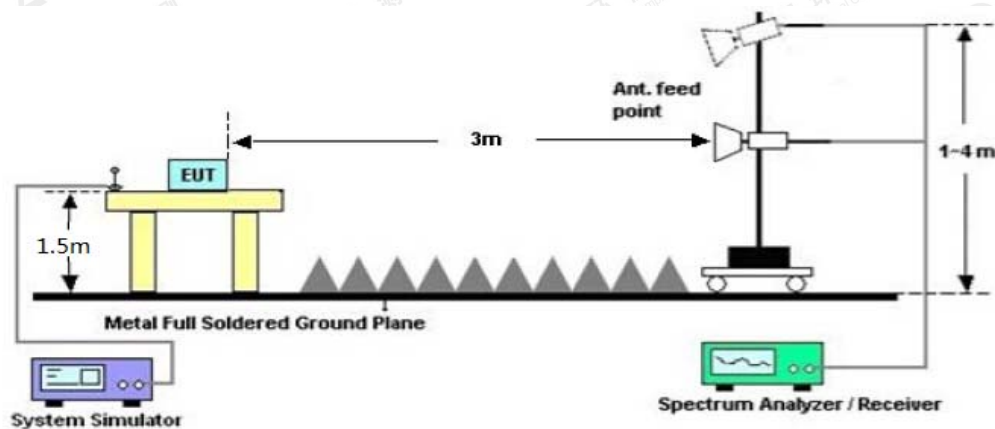
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.2.3 PROVISIONS APPLICABLE

(a) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least $43+10\log(P)$ dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Note: only result the worst condition of each test mode:

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9.2.4 MEASUREMENT RESULT

GSM 850:

The Worst Test Results for Channel 251/848.8 MHz				
Frequency	Emission Level	Limits	Margin	Comment
(MHz)	(dBm)	(dBm)	(dB)	
1967.60	-49.10	-13	-36.10	Horizontal
3564.15	-32.73	-13	-19.73	Horizontal
6946.46	-45.36	-13	-32.36	Horizontal
1967.60	-39.91	-13	-26.91	Vertical
3564.59	-50.02	-13	-37.02	Vertical
6946.59	-33.21	-13	-20.21	Vertical

GSM 850(EDGE 8):

The Worst Test Results for Channel 251/848.8 MHz				
Frequency	Emission Level	Limits	Margin	Comment
(MHz)	(dBm)	(dBm)	(dB)	
1967.60	-52.43	-13	-39.43	Horizontal
3511.58	-39.37	-13	-26.37	Horizontal
6432.12	-50.40	-13	-37.40	Horizontal
1967.60	-36.74	-13	-23.74	Vertical
3425.13	-50.93	-13	-37.93	Vertical
6853.12	-31.75	-13	-18.75	Vertical

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PCS 1900:

The Worst Test Results for Channel 810/1909.8MHz				
Frequency	Emission Level	Limits	Margin	Comment
(MHz)	(dBm)	(dBm)	(dB)	
1849.56	-48.55	-13	-35.55	Horizontal
3819.60	-36.78	-13	-23.78	Horizontal
7833.14	-48.20	-13	-35.20	Horizontal
1848.43	-36.86	-13	-23.86	Vertical
3819.60	-47.96	-13	-34.96	Vertical
7658.44	-33.44	-13	-20.44	Vertical

PCS 1900(EDGE 8):

The Worst Test Results for Channel 810/1909.8MHz				
Frequency	Emission Level	Limits	Margin	Comment
(MHz)	(dBm)	(dBm)	(dB)	
1844.53	-52.42	-13	-39.42	Horizontal
3819.60	-40.37	-13	-27.37	Horizontal
7646.11	-49.99	-13	-36.99	Horizontal
1831.25	-39.17	-13	-26.17	Vertical
3819.60	-47.63	-13	-34.63	Vertical
7641.55	-33.30	-13	-20.30	Vertical

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HSPA band II:

The Worst Test Results for Channel 9538/1907.6MHz				
Frequency	Emission Level	Limits	Margin	Comment
(MHz)	(dBm)	(dBm)	(dB)	
1872.38	-49.75	-13	-36.75	Horizontal
3815.20	-33.81	-13	-20.81	Horizontal
7581.42	-51.62	-13	-38.62	Horizontal
1877.56	-35.71	-13	-22.71	Vertical
3815.20	-47.16	-13	-34.16	Vertical
7656.21	-32.86	-13	-19.86	Vertical

HSPA band V:

The Worst Test Results for Channel 4233/846.6MHz				
Frequency	Emission Level	Limits	Margin	Comment
(MHz)	(dBm)	(dBm)	(dB)	
1693.20	-52.40	-13	-39.40	Horizontal
3236.12	-35.21	-13	-22.21	Horizontal
6745.25	-48.14	-13	-35.14	Horizontal
1693.20	-35.63	-13	-22.63	Vertical
3341.11	-45.64	-13	-32.64	Vertical
6742.45	-40.34	-13	-27.34	Vertical

RESULT: PASS
Note:

1. Margin = Emission Level -Limit
2. Below 30MHZ no Spurious found and Above is the worst mode data.

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10. FREQUENCY STABILITY

10.1 MEASUREMENT METHOD

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMU200 DIGITAL RADIO COMMUNICATION TESTER.

- 1 Measure the carrier frequency at room temperature.
- 2 Subject the EUT to overnight soak at -10°C.
- 3 With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on channel 661 for PCS 1900 band, channel 190 for GSM 850 band, channel 9400 for UMTS band II and channel 4175 for UMTS band V measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 4 Repeat the above measurements at 10°C increments from -10°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 5 Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
- 6 Subject the EUT to overnight soak at +50°C.
- 7 With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 8 Repeat the above measurements at 10°C increments from +50°C to -10°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 9 At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

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10.2 PROVISIONS APPLICABLE

10.2.1 FOR HAND CARRIED BATTERY POWERED EQUIPMENT

According to the ANSI/TIA-603-E-2016, the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.4VDC and 4.2VDC, with a nominal voltage of 3.7VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.

10.2.2 FOR EQUIPMENT POWERED BY PRIMARY SUPPLY VOLTAGE

According to the ANSI/TIA-603-E-2016, the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment, the normal environment temperature is 20°C.

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10.3 MEASUREMENT RESULT

Test Results

Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	GSM	LCH	TN	VL	-24.67	-0.03	±2.5	PASS
			TN	VN	-29.51	-0.04	±2.5	PASS
			TN	VH	-35.39	-0.04	±2.5	PASS
		MCH	TN	VL	-7.10	-0.01	±2.5	PASS
			TN	VN	-8.46	-0.01	±2.5	PASS
			TN	VH	-20.79	-0.02	±2.5	PASS
		HCH	TN	VL	-24.47	-0.03	±2.5	PASS
			TN	VN	-19.89	-0.02	±2.5	PASS
			TN	VH	-2.32	-0.00	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	EDGE	LCH	TN	VL	-40.58	-0.05	±2.5	PASS
			TN	VN	-42.04	-0.05	±2.5	PASS
			TN	VH	-38.68	-0.05	±2.5	PASS
		MCH	TN	VL	-28.57	-0.03	±2.5	PASS
			TN	VN	-37.71	-0.05	±2.5	PASS
			TN	VH	-40.55	-0.05	±2.5	PASS
		HCH	TN	VL	-22.79	-0.03	±2.5	PASS
			TN	VN	-26.64	-0.03	±2.5	PASS
			TN	VH	-29.57	-0.03	±2.5	PASS

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt. (V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
PCS 1900	GSM	LCH	TN	VL	11.11	0.01	±2.5	PASS
			TN	VN	-9.56	-0.01	±2.5	PASS
			TN	VH	-9.23	-0.00	±2.5	PASS
		MCH	TN	VL	0.32	0.00	±2.5	PASS
			TN	VN	-0.84	-0.00	±2.5	PASS
			TN	VH	-2.84	-0.00	±2.5	PASS
		HCH	TN	VL	-0.97	-0.00	±2.5	PASS
			TN	VN	-6.91	-0.00	±2.5	PASS
			TN	VH	-1.55	-0.00	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt. (V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
PCS 1900	EDGE	LCH	TN	VL	-14.88	-0.01	±2.5	PASS
			TN	VN	-8.43	-0.00	±2.5	PASS
			TN	VH	-7.88	-0.00	±2.5	PASS
		MCH	TN	VL	-1.29	-0.00	±2.5	PASS
			TN	VN	7.88	0.00	±2.5	PASS
			TN	VH	-2.68	-0.00	±2.5	PASS
		HCH	TN	VL	21.18	0.01	±2.5	PASS
			TN	VN	24.73	0.01	±2.5	PASS
			TN	VH	22.60	0.01	±2.5	PASS

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Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Tem. (°C)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	GSM	LCH	VN	-10	-12.79	-0.02	±2.5	PASS
			VN	0	-21.44	-0.03	±2.5	PASS
			VN	10	-11.62	-0.01	±2.5	PASS
			VN	20	-16.01	-0.02	±2.5	PASS
			VN	30	-15.17	-0.02	±2.5	PASS
			VN	40	-15.05	-0.02	±2.5	PASS
			VN	50	-14.33	-0.02	±2.5	PASS
GSM850	GSM	MCH	VN	-10	-19.69	-0.02	±2.5	PASS
			VN	0	-11.11	-0.01	±2.5	PASS
			VN	10	-2.52	-0.00	±2.5	PASS
			VN	20	-7.94	-0.01	±2.5	PASS
			VN	30	-13.24	-0.02	±2.5	PASS
			VN	40	-13.30	-0.02	±2.5	PASS
			VN	50	-20.21	-0.02	±2.5	PASS
GSM850	GSM	HCH	VN	-10	-7.62	-0.01	±2.5	PASS
			VN	0	-10.59	-0.01	±2.5	PASS
			VN	10	-14.72	-0.02	±2.5	PASS
			VN	20	-16.40	-0.02	±2.5	PASS
			VN	30	-21.83	-0.03	±2.5	PASS
			VN	40	-20.66	-0.02	±2.5	PASS
			VN	50	-13.11	-0.02	±2.5	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Volt. (V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	EDGE	LCH	VN	-10	-35.09	-0.04	±2.5	PASS
			VN	0	-37.58	-0.05	±2.5	PASS
			VN	10	-43.26	-0.05	±2.5	PASS
			VN	20	-38.32	-0.04	±2.5	PASS
			VN	30	-36.39	-0.04	±2.5	PASS
			VN	40	-39.32	-0.05	±2.5	PASS
			VN	50	-38.42	-0.05	±2.5	PASS
GSM850	EDGE	MCH	VN	-10	-36.97	-0.04	±2.5	PASS
			VN	0	-38.97	-0.05	±2.5	PASS
			VN	10	-32.93	-0.04	±2.5	PASS
			VN	20	-28.67	-0.03	±2.5	PASS
			VN	30	-32.71	-0.04	±2.5	PASS
			VN	40	-35.48	-0.04	±2.5	PASS
			VN	50	-36.90	-0.04	±2.5	PASS
GSM850	EDGE	HCH	VN	-10	-23.47	-0.03	±2.5	PASS
			VN	0	-28.35	-0.03	±2.5	PASS
			VN	10	-33.87	-0.04	±2.5	PASS
			VN	20	-38.39	-0.05	±2.5	PASS
			VN	30	-38.74	-0.05	±2.5	PASS
			VN	40	-25.28	-0.03	±2.5	PASS
			VN	50	-27.54	-0.03	±2.5	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Tem. (°C)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
PCS 1900	GSM	LCH	VN	-10	-8.85	0.00	±2.5	PASS
			VN	0	-16.14	-0.01	±2.5	PASS
			VN	10	-6.20	0.00	±2.5	PASS
			VN	20	-12.14	-0.01	±2.5	PASS
			VN	30	-9.17	0.00	±2.5	PASS
			VN	40	-11.43	-0.01	±2.5	PASS
			VN	50	-8.52	0.00	±2.5	PASS
PCS 1900	GSM	MCH	VN	-10	-6.39	0.00	±2.5	PASS
			VN	0	-6.91	0.00	±2.5	PASS
			VN	10	-6.20	0.00	±2.5	PASS
			VN	20	-3.49	0.00	±2.5	PASS
			VN	30	0.06	0.00	±2.5	PASS
			VN	40	0.71	0.00	±2.5	PASS
			VN	50	-6.39	0.00	±2.5	PASS
PCS 1900	GSM	HCH	VN	-10	-6.13	0.00	±2.5	PASS
			VN	0	-0.06	0.00	±2.5	PASS
			VN	10	1.87	0.00	±2.5	PASS
			VN	20	-2.07	0.00	±2.5	PASS
			VN	30	-0.97	0.00	±2.5	PASS
			VN	40	0.26	0.00	±2.5	PASS
			VN	50	9.30	0.00	±2.5	PASS

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Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
WCDMA850	UMTS	LCH	TN	VL	1.74	0.00	±2.5	PASS
			TN	VN	-1.56	0.00	±2.5	PASS
			TN	VH	-4.46	-0.01	±2.5	PASS
		MCH	TN	VL	-7.25	-0.01	±2.5	PASS
			TN	VN	-2.32	0.00	±2.5	PASS
			TN	VH	0.31	0.00	±2.5	PASS
		HCH	TN	VL	-0.58	0.00	±2.5	PASS
			TN	VN	-4.67	-0.01	±2.5	PASS
			TN	VH	-11.72	-0.01	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
WCDMA1900	UMTS	LCH	TN	VL	-1.53	0.00	±2.5	PASS
			TN	VN	-2.85	0.00	±2.5	PASS
			TN	VH	3.05	0.00	±2.5	PASS
		MCH	TN	VL	9.19	0.00	±2.5	PASS
			TN	VN	9.57	0.01	±2.5	PASS
			TN	VH	10.33	0.01	±2.5	PASS
		HCH	TN	VL	-10.77	-0.01	±2.5	PASS
			TN	VN	1.33	0.00	±2.5	PASS
			TN	VH	-7.80	0.00	±2.5	PASS

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Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Tem. (°C)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
WCDMA850	UMTS	LCH	VN	-10	-1.40	0.00	±2.5	PASS
			VN	0	-0.58	0.00	±2.5	PASS
			VN	10	-0.82	0.00	±2.5	PASS
			VN	20	-1.22	0.00	±2.5	PASS
			VN	30	4.52	0.01	±2.5	PASS
			VN	40	-0.37	0.00	±2.5	PASS
			VN	50	2.15	0.00	±2.5	PASS
WCDMA850	UMTS	MCH	VN	-10	-3.65	0.00	±2.5	PASS
			VN	0	-2.01	0.00	±2.5	PASS
			VN	10	-3.94	0.00	±2.5	PASS
			VN	20	0.34	0.00	±2.5	PASS
			VN	30	-4.97	-0.01	±2.5	PASS
			VN	40	-2.47	0.00	±2.5	PASS
			VN	50	-6.84	-0.01	±2.5	PASS
WCDMA850	UMTS	HCH	VN	-10	-10.83	-0.01	±2.5	PASS
			VN	0	-13.79	-0.02	±2.5	PASS
			VN	10	-11.87	-0.01	±2.5	PASS
			VN	20	-9.61	-0.01	±2.5	PASS
			VN	30	-11.40	-0.01	±2.5	PASS
			VN	40	-11.93	-0.01	±2.5	PASS
			VN	50	-8.26	-0.01	±2.5	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Tem. (°C)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
WCDMA1900	UMTS	LCH	VN	-10	-4.26	0.00	±2.5	PASS
			VN	0	-6.59	0.00	±2.5	PASS
			VN	10	-5.40	0.00	±2.5	PASS
			VN	20	5.11	0.00	±2.5	PASS
			VN	30	-4.50	0.00	±2.5	PASS
			VN	40	-5.45	0.00	±2.5	PASS
			VN	50	-3.80	0.00	±2.5	PASS
WCDMA1900	UMTS	MCH	VN	-10	10.25	0.01	±2.5	PASS
			VN	0	15.79	0.01	±2.5	PASS
			VN	10	12.36	0.01	±2.5	PASS
			VN	20	9.20	0.00	±2.5	PASS
			VN	30	2.23	0.00	±2.5	PASS
			VN	40	7.20	0.00	±2.5	PASS
			VN	50	6.82	0.00	±2.5	PASS
WCDMA1900	UMTS	HCH	VN	-10	-2.88	0.00	±2.5	PASS
			VN	0	-10.13	-0.01	±2.5	PASS
			VN	10	-14.39	-0.01	±2.5	PASS
			VN	20	-8.48	0.00	±2.5	PASS
			VN	30	-5.80	0.00	±2.5	PASS
			VN	40	-2.76	0.00	±2.5	PASS
			VN	50	-7.75	0.00	±2.5	PASS

-----END OF REPORT-----

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