



TESTING LABORATORY
CERTIFICATE #4820.01



FCC PART 22H, PART 24E, PART 27 MEASUREMENT AND TEST REPORT

For

MAXWEST COMMUNICATION LIMITED

ROOM 1802B FORTRESS TOWER 250 KING'S ROAD NORTH POINT, Hong Kong

FCC ID: 2ASP8UNOM63G

Report Type: Original Report	Product Type: Mobile Phone
Report Number: RDG190919006-00C	
Report Date: 2019-10-15	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:	Mobile Phone
EUT Model:	UNO M6 3G
Operation modes:	GSM Voice, GPRS Data, WCDMA(R99 (Voice+Data), HSDPA/HSUPA)
Operation Frequency:	GSM 850: 824-849 MHz(TX); 869-894 MHz(RX) PCS 1900: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 4: 1710-1755 MHz(TX) ; 2110-2155 MHz(RX) WCDMA Band 5: 824-849 MHz(TX), 869-894 MHz(RX)
Maximum Output Power: (Conducted)	GSM 850 : 31.71dBm; PCS 1900: 27.80 dBm WCDMA Band 2: 22.68 dBm; WCDMA Band 4: 22.88 dBm; WCDMA Band 5: 22.87 dBm
Modulation Type:	GMSK, QPSK, 16QAM
Rated Input Voltage:	DC 3.7V from battery or DC 5V from adapter
Adapter Information	Input: AC100V-240V 50/60HZ 150mA
	Output: DC 5.0V 1A
External Dimension:	123mm(L)*64.5mm(W)*10.5mm(H)
Serial Number:	190919006
EUT Received Date:	2019-09-20
EUT Received Status:	Good

Objective

This report is prepared on behalf of **MAXWEST COMMUNICATION LIMITED** in accordance with: Part 2-Subpart J, Part 22-Subpart H, Part 24-Subpart E, Part 27 of the Federal Communications Commission's rules.

The objective is to determine compliance with FCC Rules for output power, modulation characteristic, occupied bandwidth, spurious emissions at antenna terminal, spurious radiated emission, frequency stability and band edge.

Related Submittal(s)/Grant(s)

FCC Part 15B JBP submissions with FCC ID: 2ASP8UNOM63G
FCC Part 15C DSS submissions with FCC ID: 2ASP8UNOM63G

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services

Part 24 Subpart E - Personal Communication Services

Part 27 – Miscellaneous wireless communications services

Applicable Standards: TIA/EIA 603-D-2010.

All radiated and conducted emissions measurements were performed at Bay Area Compliance Laboratories Corp.(Dongguan).

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Unwanted Emissions, radiated	30MHz ~ 1GHz: 5.85 dB 1G~26.5GHz: 5.23 dB
Unwanted Emissions, conducted	±1.5 dB
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk “★”.

SYSTEM TEST CONFIGURATION

Justification

The EUT was configured for testing according to TIA/EIA-603-D 2010.

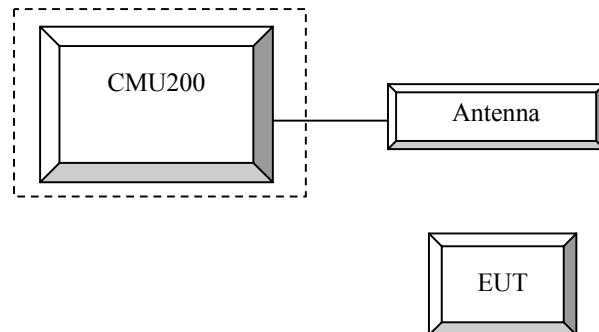
Equipment Modifications

No modification was made to the EUT.

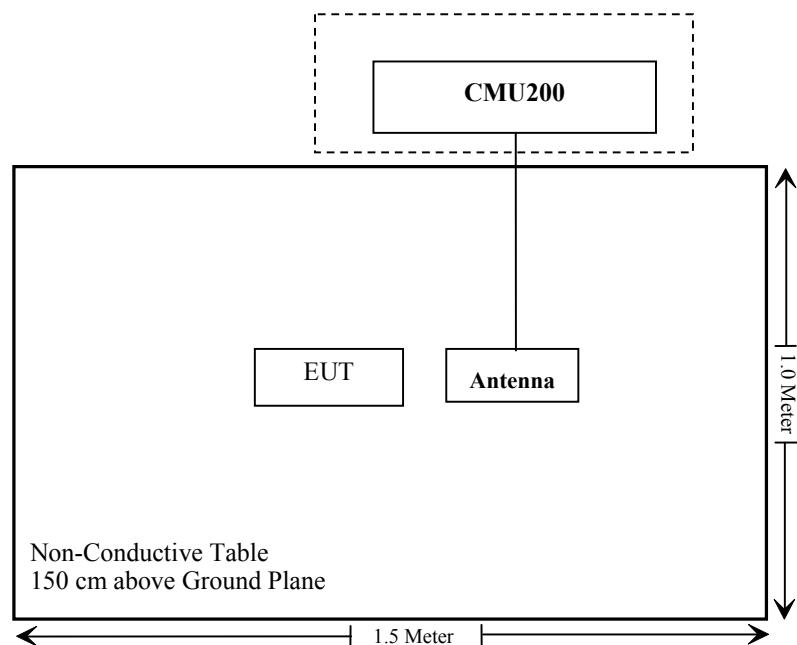
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
R&S	Universial Radio Communication Tester	CMU200	106 891
Un-Known	ANTENNA	Un-Known	Un-Known

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC§1.1310, §2.1093	RF Exposure	Compliance
FCC§2.1046;§ 22.913 (a); § 24.232 (c);§27.50	RF Output Power	Compliance
FCC§ 2.1047	Modulation Characteristics	Not Applicable
FCC§ 2.1049; § 22.905 § 22.917; § 24.238; §27.53	Occupied Bandwidth	Compliance
FCC§ 2.1051, § 22.917 (a); § 24.238 (a); §27.53;	Spurious Emissions at Antenna Terminal	Compliance
FCC§ 2.1053 § 22.917 (a); § 24.238 (a); §27.53	Field Strength of Spurious Radiation	Compliance
FCC§ 22.917 (a); § 24.238 (a); §27.53;	Out of band emission, Band Edge	Compliance
FCC§ 2.1055 § 22.355; § 24.235; §27.54	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

FCC §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliance, please refer to the SAR report: RDG190919006-20.

FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E&27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

FCC § 2.1046, § 22.913 (a) & § 24.232 (c) & § 27.50- RF OUTPUT POWER**Applicable Standard**

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC §2.1046 and §24.232 (C), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to §24.232 (d) Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. 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.

According to §27.50

(b)(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

(c) (10) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

(d), (4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(h),(2) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

Test Procedure

GSM/GPRS/EGPRS

Function: Menu select > GSM Mobile Station > GSM 850/1900
 Press Connection control to choose the different menus
 Press RESET > choose all the reset all settings
 Connection Press Signal Off to turn off the signal and change settings
 Network Support > GSM + GPRS or GSM + EGSM
 Main Service > Packet Data
 Service selection > Test Mode A – Auto Slot Config. off
 MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting
 > Slot configuration > Uplink/Gamma
 > 33 dBm for GPRS 850
 > 30 dBm for GPRS 1900
 > 27 dBm for EGPRS 850
 > 26 dBm for EGPRS 1900
 BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel
 Frequency Offset > + 0 Hz
 Mode > BCCH and TCH
 BCCH Level > -85 dBm (May need to adjust if link is not stable)
 BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]
 Channel Type > Off
 P0 > 4 dB
 Slot Config > Unchanged (if already set under MS signal)
 TCH > choose desired test channel
 Hopping > Off
 Main Timeslot > 3
 Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS)
 Bit Stream > 2E9-1 PSR Bit Stream
 AF/RF Connection Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input
 Press Signal on to turn on the signal and change settings

WCDMA-Release 99

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification. The EUT has a nominal maximum output power of 24dBm (+1.7/-3.7).

WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	$\beta c / \beta d$	8/15

WCDMA HSDPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subset	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set1			
	Power Control Algorithm	Algorithm2			
HSDPA Specific Settings	β_c	2/15	12/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	β_d (SF)	64			
	β_c / β_d	2/15	12/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
	MPR(dB)	0	0	0.5	0.5
	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback	4ms			
	CQI Repetition Factor	2			
	$A_{hs} = \beta_{hs} / \beta_c$	30/15			

WCDMA HSUPA

The following tests were conducted according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA
	Subset	1	2	3	4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	0
	β_{ec}	209/225	12/15	30/15	2/15	5/15
HSDPA Specific Settings	β_c / β_d	11/15	6/15	15/9	2/15	-
	β_{hs}	22/15	12/15	30/15	4/15	5/15
	CM(dB)	1.0	3.0	2.0	3.0	1.0
	MPR(dB)	0	2	1	2	0
	DACK	8				
	DNAK	8				
HSUPA Specific Settings	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	$A_{hs} = \beta_{hs} / \beta_c$	30/15				
	DE-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI	75	67	92	71	81
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E_FCl	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27	E-TFCI 11 E-TFCI PO 4 E-TFCI 67 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27		

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2018-12-10	2019-12-10
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10
EMCO	Adjustable Dipole Antenna	3121C	9109-753	Not Required	/
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2019-09-05	2020-09-05
Agilent	Spectrum Analyzer	E4440A	SG43360054	2019-01-04	2020-01-04
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
TDK RF	Horn Antenna	HRN-0118	130 084	2018-10-12	2021-10-12
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2019-09-05	2020-09-05
Agilent	Signal Generator	E8247C	MY43321350	2018-12-10	2019-12-10
R&S	Universal Radio Communication Tester	CMU200	110 822	2018-12-14	2019-12-14
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Test Items:	Radiation Below 1GHz	Radiation Above 1GHz	Conducted Output Power
Temperature:	26.5 °C	28.2 °C	27.6°C
Relative Humidity:	49%	60 %	54%
ATM Pressure:	100.8 kPa	101 kPa	101.5kPa
Tester:	Jackson	Vern Shen	Chris Mo
Test Date:	2019-09-29	2019-09-28	2019-09-27

Test Result: Compliance

Conducted Output Power**Cellular Band & PCS Band**

Band	Channel No.	Conducted Peak Output Power (dBm)				
		GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot
Cellular	128	30.70	30.66	29.21	27.69	26.01
	190	30.70	30.72	29.25	27.70	25.99
	251	30.80	30.70	29.27	27.71	25.98
PCS	512	26.10	26.04	24.42	23.27	21.35
	661	26.10	25.99	24.40	23.21	21.33
	810	26.20	26.01	24.43	23.35	21.37

WCDMA Band 2

Mode	3GPP Sub Test	Low Channel		Middle Channel		High Channel	
		Ave. Power (dBm)	PAR (dB)	Ave. Power (dBm)	PAR (dB)	Ave. Power (dBm)	PAR (dB)
Rel 99	1	20.06	3.04	20.14	3.16	20.23	2.92
HSDPA	1	19.69	5.12	20.05	5.20	19.74	5.36
	2	19.77	5.11	20.13	5.19	19.74	5.31
	3	19.63	4.97	19.99	5.09	19.65	5.27
	4	19.81	4.91	20.17	4.85	19.65	5.48
	1	19.35	6.00	19.70	5.36	19.48	5.52
HSUPA	2	19.39	5.96	19.70	5.12	19.50	5.43
	3	19.38	5.87	19.76	5.09	19.54	5.15
	4	19.44	5.85	19.64	5.13	19.51	5.03
	5	19.35	5.89	19.70	5.04	19.60	5.18
	1	19.44	6.04	19.76	5.39	19.51	5.56
DC-HSDPA	2	19.38	5.86	19.70	5.13	19.51	5.02
	3	19.47	6.06	19.79	5.38	19.42	5.46
	4	19.41	6.04	19.70	5.35	19.57	5.56

WCDMA Band 4

Mode	3GPP Sub Test	Low Channel		Middle Channel		High Channel	
		Ave. Power (dBm)	PAR (dB)	Ave. Power (dBm)	PAR (dB)	Ave. Power (dBm)	PAR (dB)
Rel 99	1	19.53	2.76	20.21	1.84	19.94	3.20
HSDPA	1	18.65	5.08	20.06	4.24	18.88	5.12
	2	18.61	5.01	20.02	4.18	18.82	5.09
	3	18.62	5.06	20.00	4.09	18.91	5.18
	4	18.71	5.15	19.97	4.13	18.88	5.07
HSUPA	1	18.12	5.12	19.87	4.20	18.56	5.68
	2	18.10	5.11	19.95	4.17	18.60	5.35
	3	18.09	5.07	19.84	4.08	18.56	4.98
	4	18.18	4.82	19.78	4.07	18.53	5.16
	5	18.21	4.97	19.99	4.13	18.56	5.34
DC-HSDPA	1	18.18	5.10	19.87	4.22	18.56	5.70
	2	18.21	4.83	19.81	4.10	18.56	5.18
	3	18.06	5.16	19.87	4.22	18.62	5.74
	4	18.06	5.09	19.78	4.18	18.62	5.66

WCDMA Band 5

Mode	3GPP Sub Test	Low Channel		Middle Channel		High Channel	
		Ave. Power (dBm)	PAR (dB)	Ave. Power (dBm)	PAR (dB)	Ave. Power (dBm)	PAR (dB)
Rel 99	1	18.33	3.28	18.34	3.48	18.06	3.24
HSDPA	1	17.36	4.88	18.05	4.36	17.27	5.28
	2	17.44	4.82	18.07	4.25	17.27	5.21
	3	17.30	4.74	17.96	4.31	17.30	5.16
	4	17.39	4.52	18.08	4.23	17.18	5.15
HSUPA	1	17.07	5.24	17.80	5.48	16.94	5.16
	2	17.07	5.14	17.88	5.43	16.96	5.14
	3	17.01	5.23	17.80	5.35	17.00	5.11
	4	17.01	5.17	17.71	5.21	17.00	5.04
	5	16.98	5.18	17.89	5.09	17.06	5.13
DC-HSDPA	1	17.10	5.26	17.89	5.51	16.97	5.14
	2	17.13	5.18	17.68	5.21	17.06	5.04
	3	17.19	5.30	17.83	5.48	16.97	5.16
	4	17.04	5.22	17.71	5.46	16.88	5.20

ERP & EIRP

Part 22H

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850 Middle Channel								
836.60	H	90.71	16.48	0.00	0.50	15.98	38.45	22.47
836.60	V	96.02	24.76	0.00	0.50	24.26	38.45	14.19
WCDMA R99 Band 5 middle channel								
836.60	H	77.10	2.87	0.00	0.50	2.37	38.45	36.08
836.60	V	86.62	15.36	0.00	0.50	14.86	38.45	23.59

Part 24E

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
PCS 1900 Middle Channel								
1880.00	H	87.37	14.76	11.66	2.66	23.76	33.00	9.24
1880.00	V	86.22	13.75	11.66	2.66	22.75	33.00	10.25
WCDMA R99 Band 2 middle channel								
1880.00	H	79.18	6.57	11.66	2.66	15.57	33.00	17.43
1880.00	V	78.65	6.18	11.66	2.66	15.18	33.00	17.82

Part 27

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA R99 Band 4 middle channel								
1732.60	H	82.89	8.84	10.90	2.51	17.23	30.00	12.77
1732.60	V	77.45	3.08	10.90	2.51	11.47	30.00	18.53

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

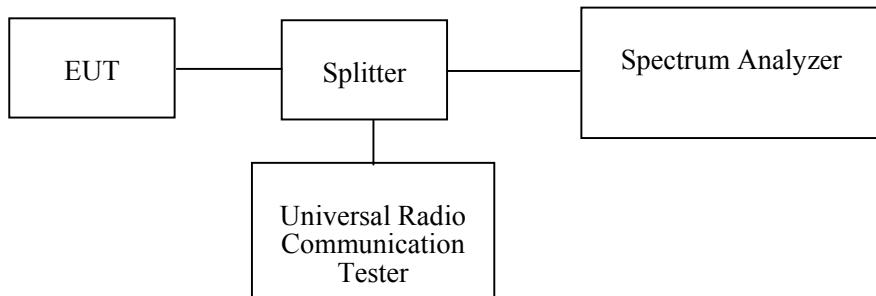
FCC §2.1049, §22.917, §22.905 & §24.238 & §27.53- OCCUPIED BANDWIDTH**Applicable Standard**

FCC §2.1049, §22.917, §22.905, §24.238 and §27.53.

Test Procedure

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The 26 dB & 99% bandwidth was recorded.

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2019-05-09	2020-05-09
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010013	Each time	/
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	/
E-Microwave	Two-way Spliter	ODP-1-6-2S	OE0120142	Each time	/

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

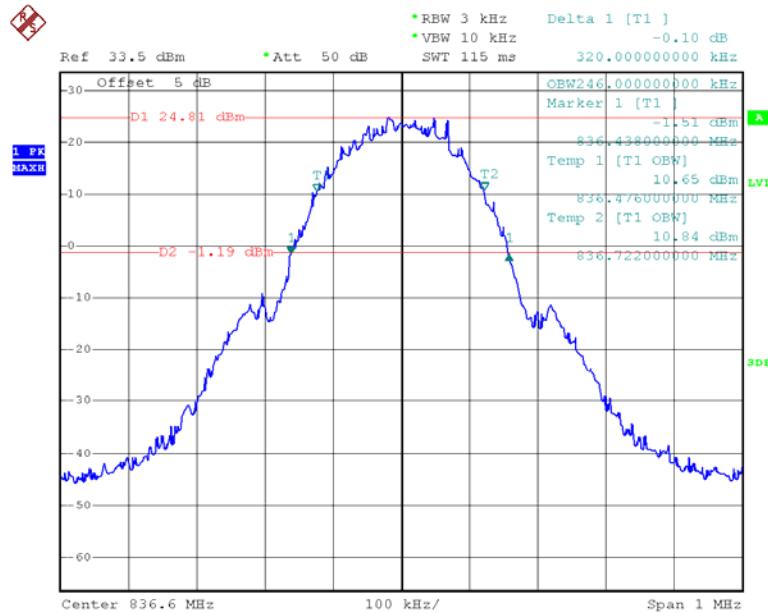
Temperature:	27.6°C
Relative Humidity:	57%
ATM Pressure:	101.5kPa
Tester:	Chris Mo
Test Date:	2019-09-27

Test Mode: Transmitting

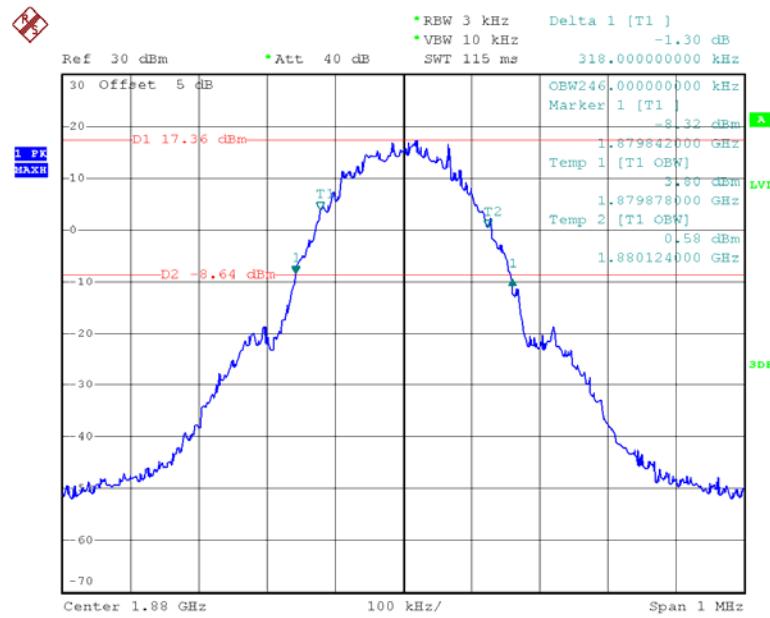
Test Result: Compliance. Please refer to the following table and plots.

Band	Test Channel	Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
Cellular	Middle	GSM	0.246	0.032
PCS		GSM	0.246	0.318
WCDMA Band 2		Rel 99	4.100	4.660
		HSDPA	4.100	4.680
		HSUPA	4.100	4.680
WCDMA Band 4		Rel 99	4.160	4.820
		HSDPA	4.120	4.720
		HSUPA	4.120	4.700
WCDMA Band 5		Rel 99	4.080	4.680
		HSDPA	4.100	4.680
		HSUPA	4.080	4.660

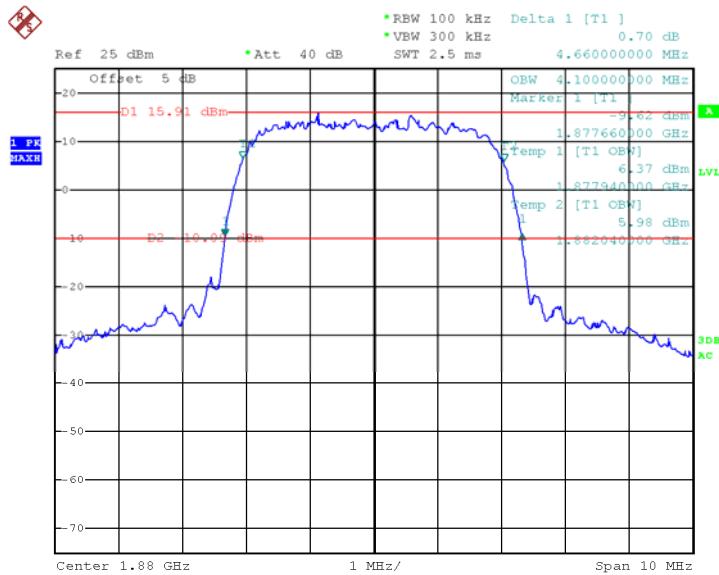
GSM Cellular 850



Date: 28.SEP.2019 09:57:54

GSM PCS 1900

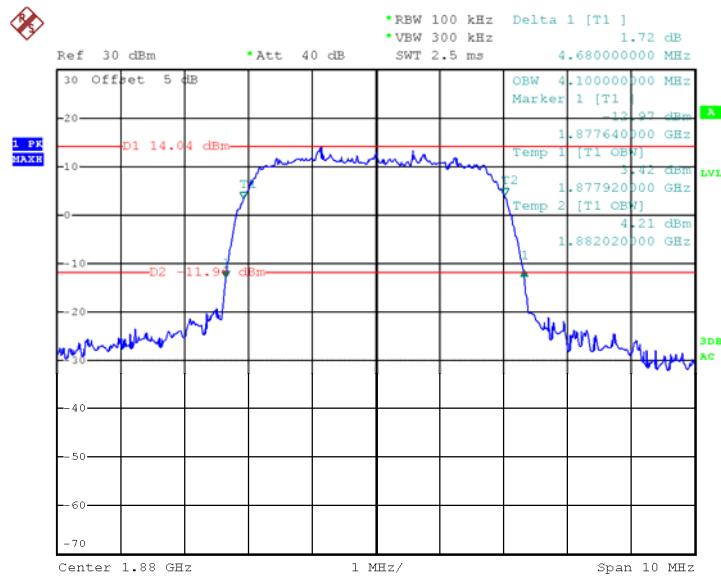
Date: 28.SEP.2019 10:19:27

WCDMA Band 2 Rel 99

AB

Date: 27.SEP.2019 19:50:18

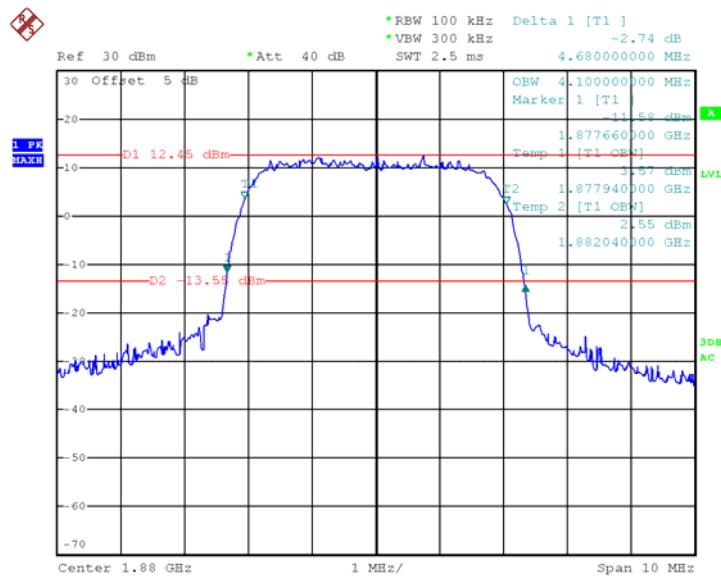
WCDMA Band 2 HSDPA



AB

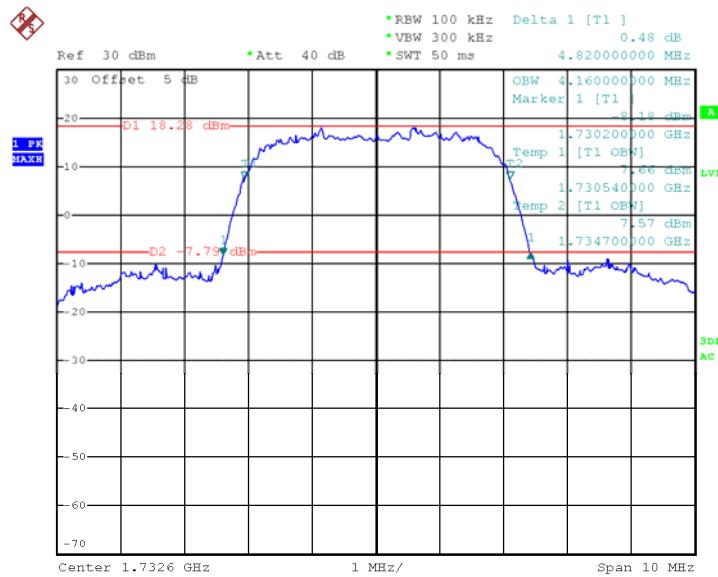
Date: 27.SEP.2019 20:13:43

WCDMA Band 2 HSUPA



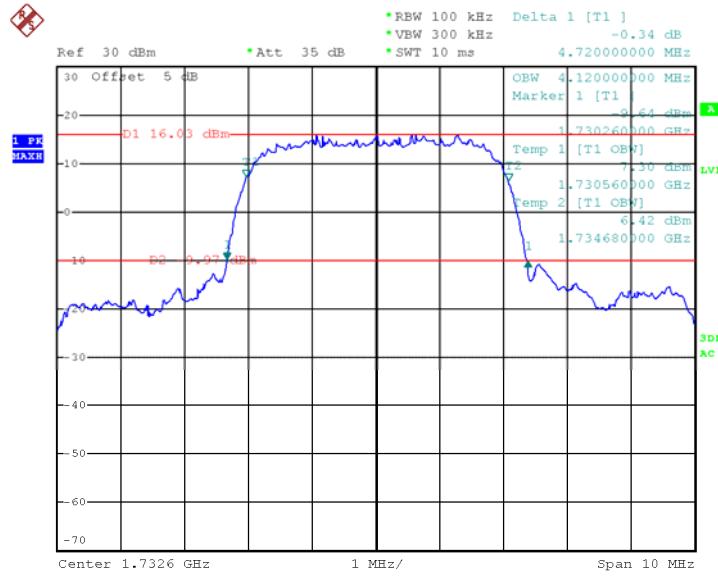
AB

Date: 27.SEP.2019 20:25:58

WCDMA Band 4 Rel 99

AB

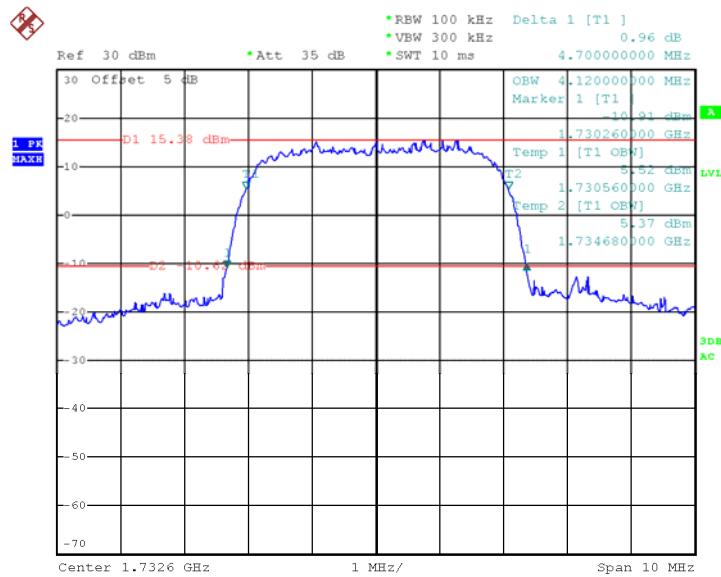
Date: 27.SEP.2019 20:39:25

WCDMA Band 4 HSDPA

AB

Date: 27.SEP.2019 20:56:27

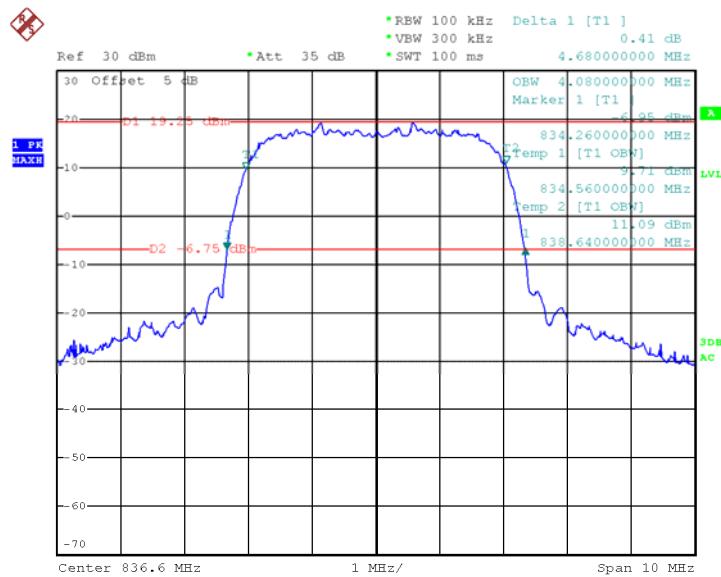
WCDMA Band 4 HSUPA



AB

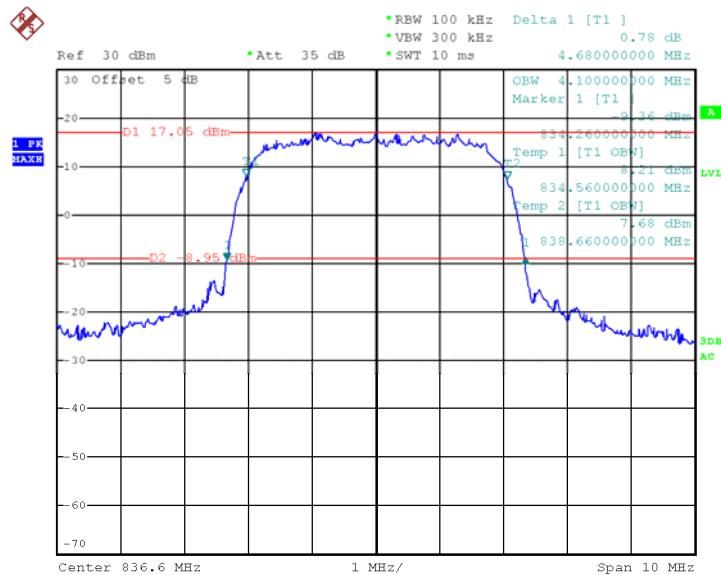
Date: 27.SEP.2019 21:05:43

WCDMA Band 5 Rel 99



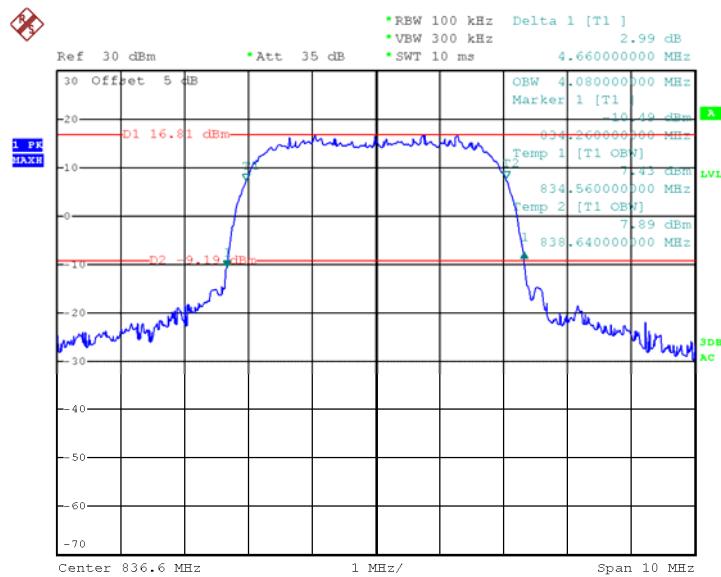
AB

Date: 27.SEP.2019 21:13:45

WCDMA Band 5 HSDPA

AB

Date: 27.SEP.2019 21:21:09

WCDMA Band 5 HSUPA

AB

Date: 27.SEP.2019 21:26:42

FCC §2.1051, §22.917(a) & §24.238(a) & §27.53- SPURIOUS EMISSIONS AT ANTENNA TERMINALS

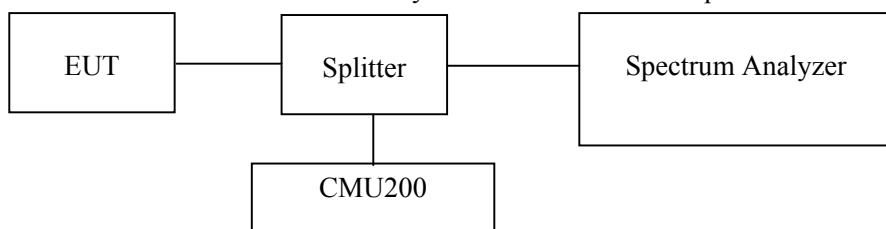
Applicable Standard

FCC §2.1051, §22.917(a), §24.238(a) and §27.53.

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2019-05-09	2020-05-09
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010013	Each time	/
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	/
E-Microwave	Two-way Spliter	ODP-1-6-2S	OE0120142	Each time	/

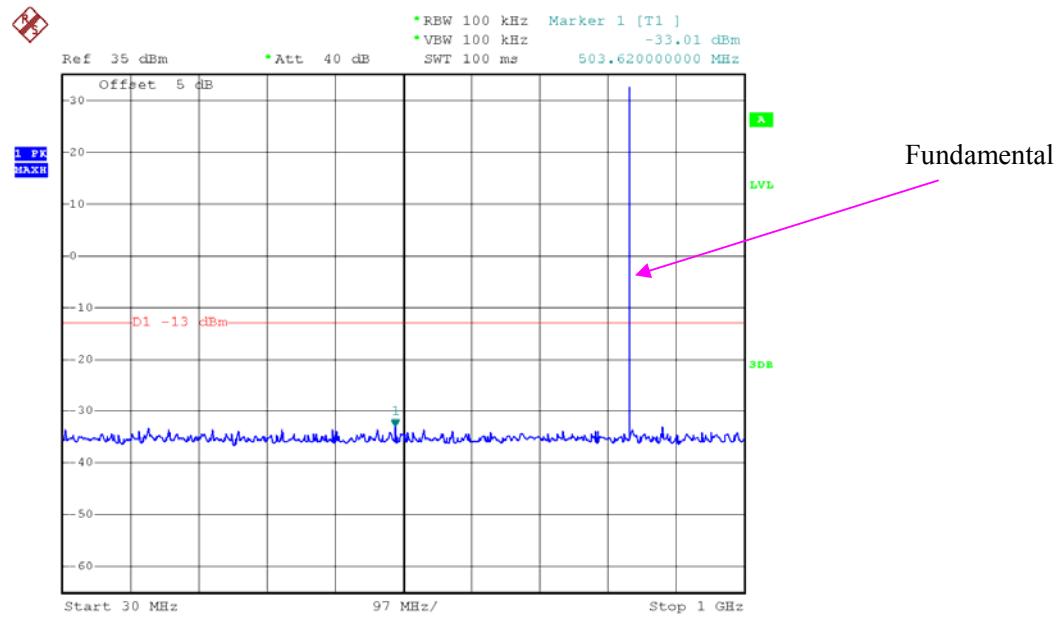
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

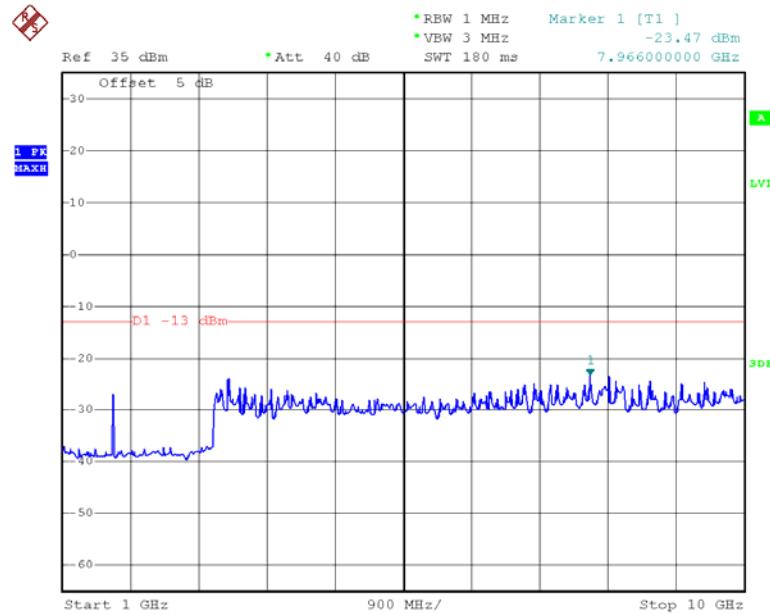
Environmental Conditions

Temperature:	27.2°C
Relative Humidity:	65%
ATM Pressure:	101kPa
Tester:	Chris Mo
Test Date:	2019-09-28

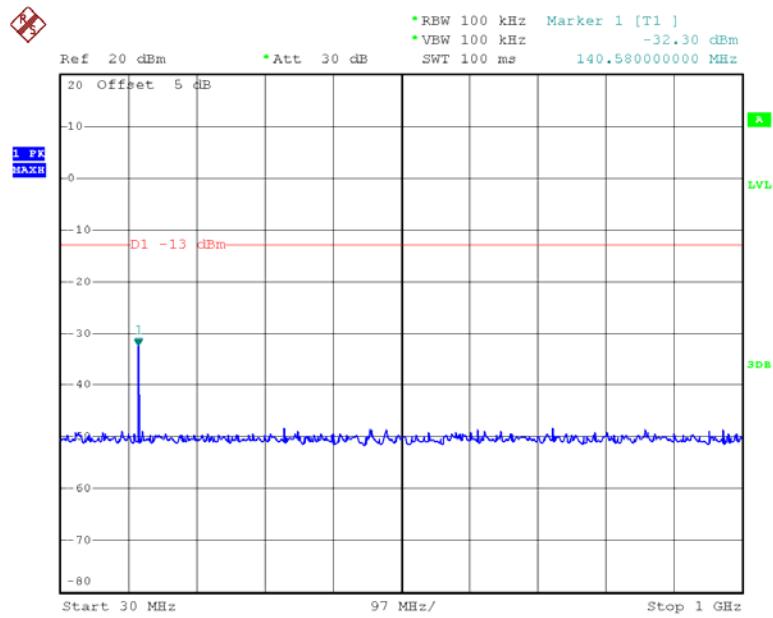
Test Result: Compliance. Please refer to the following plots.

GSM850 Middle Channel

Date: 28.SEP.2019 10:09:22

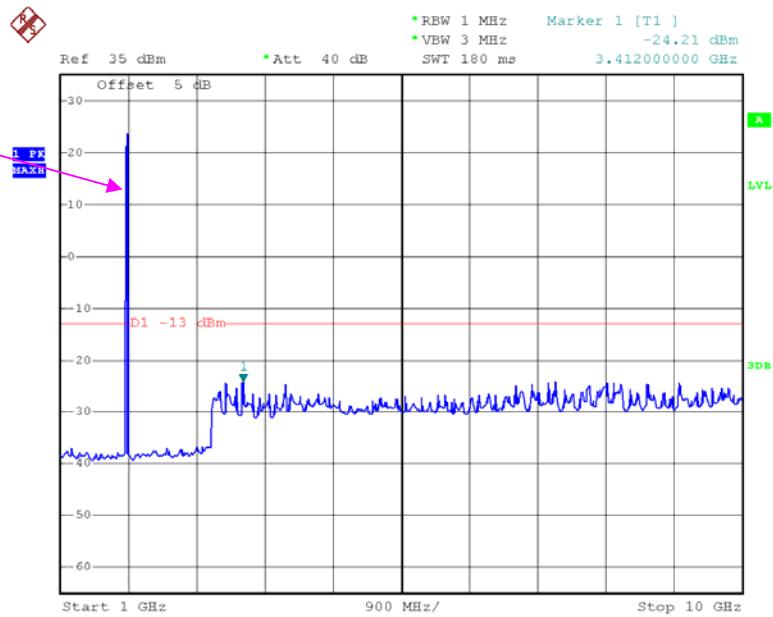


Date: 28.SEP.2019 10:10:28

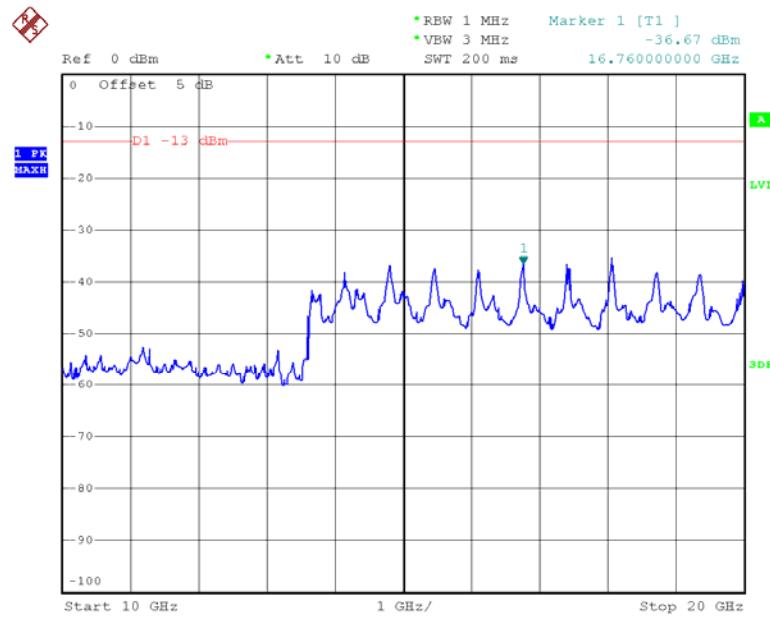
PCS 1900 Middle Channel

Date: 28.SEP.2019 10:16:23

Fundamental

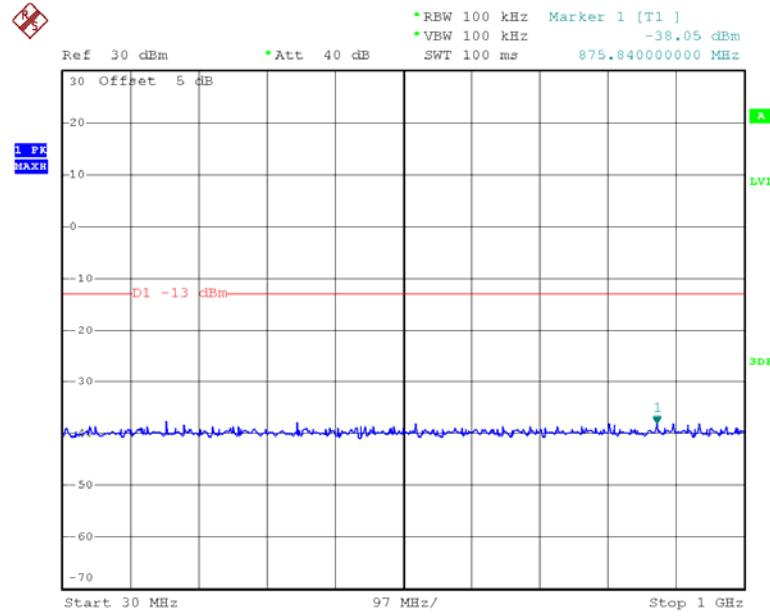


Date: 28.SEP.2019 10:13:55



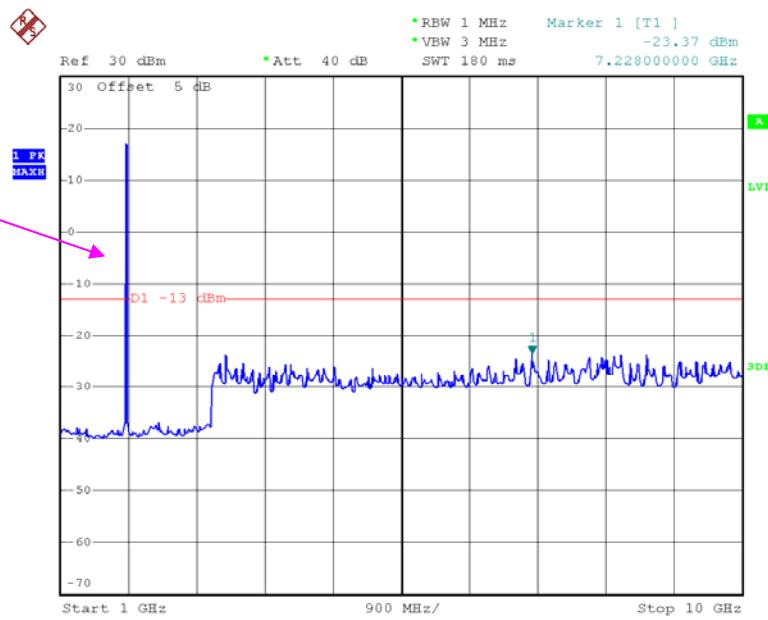
Date: 28.SEP.2019 10:15:03

WCDMA Band2 Rel 99 Middle Channel

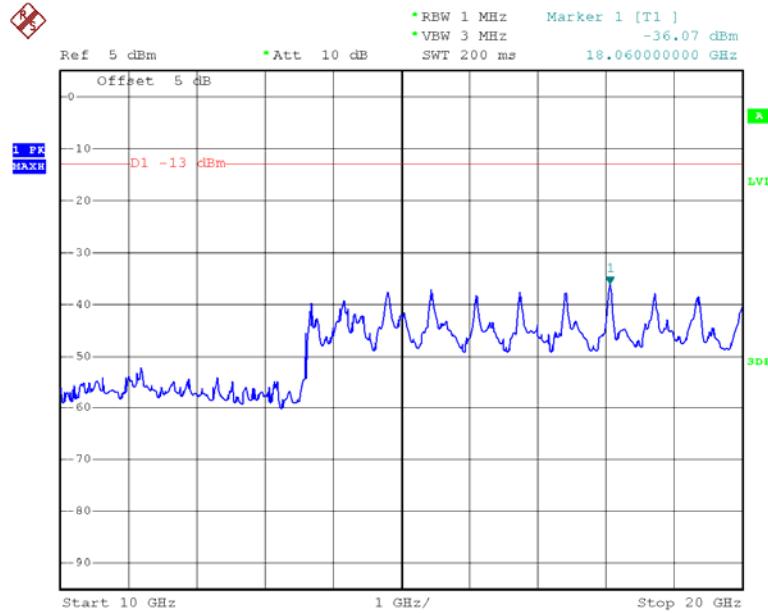


Date: 28.SEP.2019 10:37:35

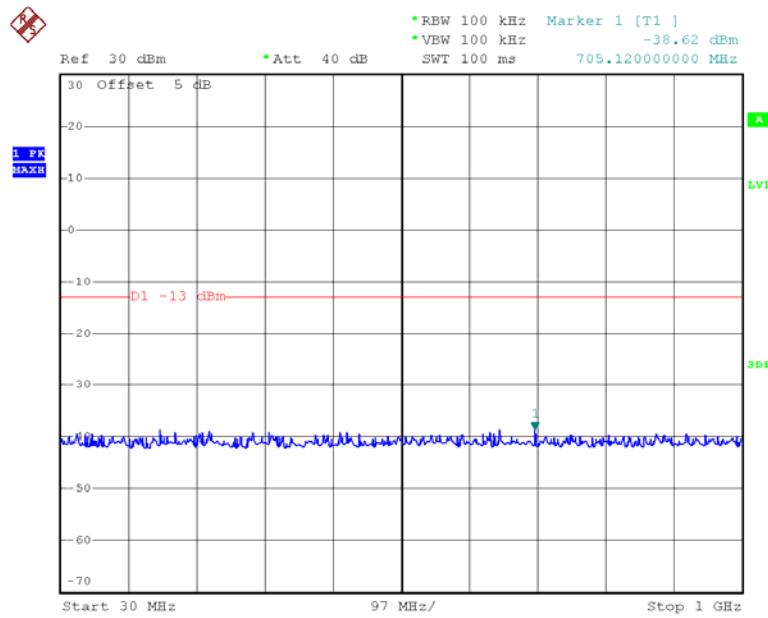
Fundamental



Date: 28.SEP.2019 10:38:39

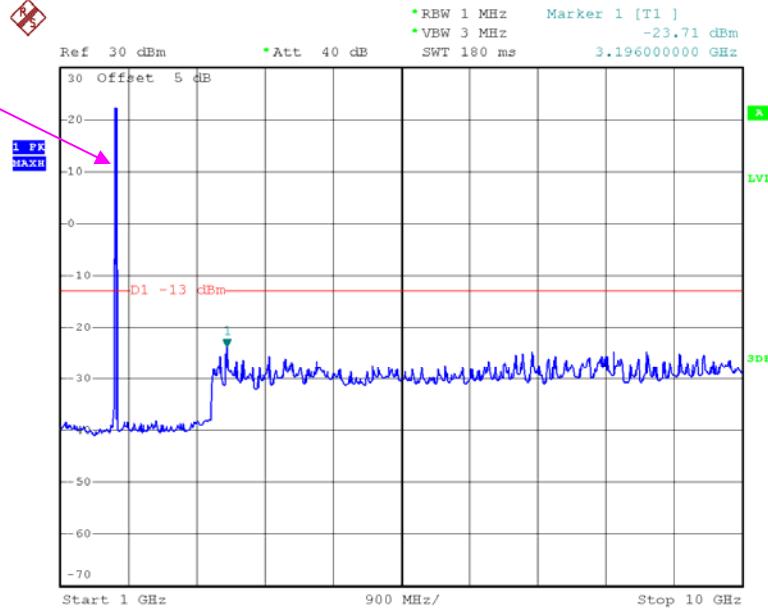


Date: 28.SEP.2019 10:39:44

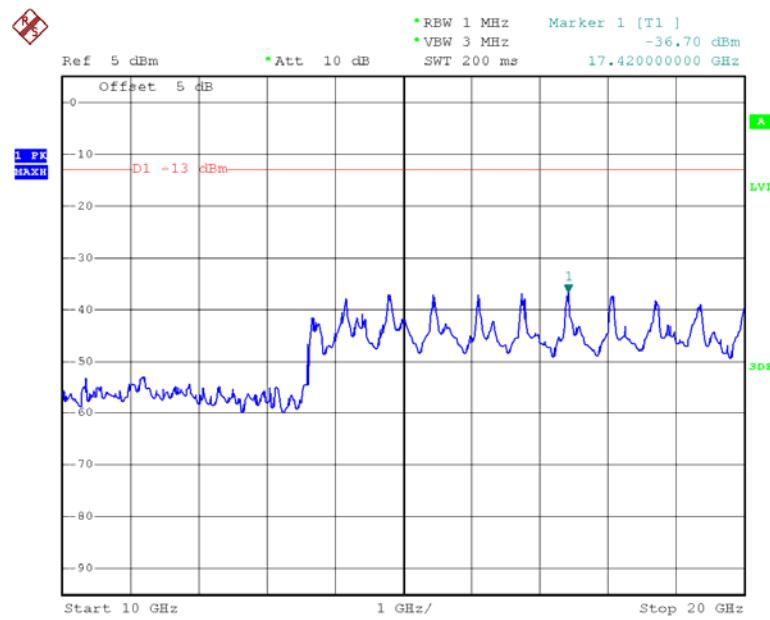
WCDMA Band 4 REL 99 Middle Channel

Date: 28.SEP.2019 10:47:56

Fundamental

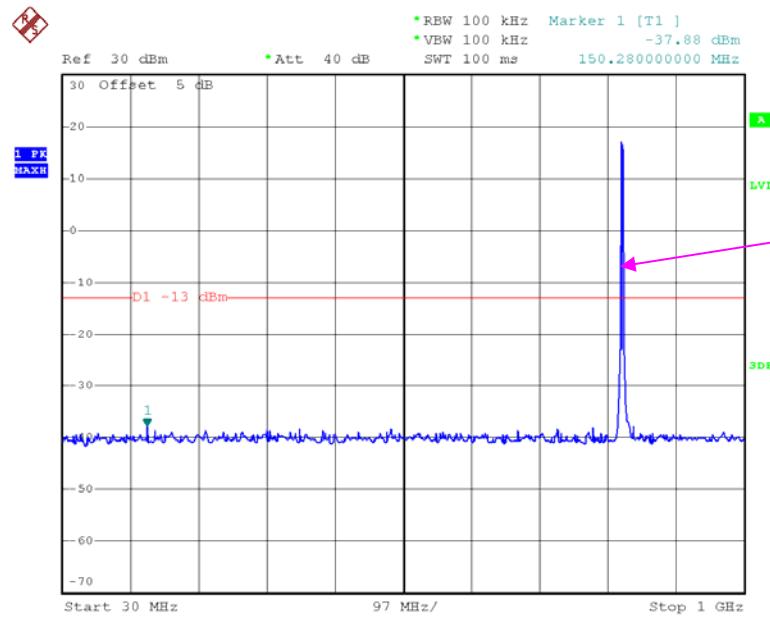


Date: 28.SEP.2019 10:47:25

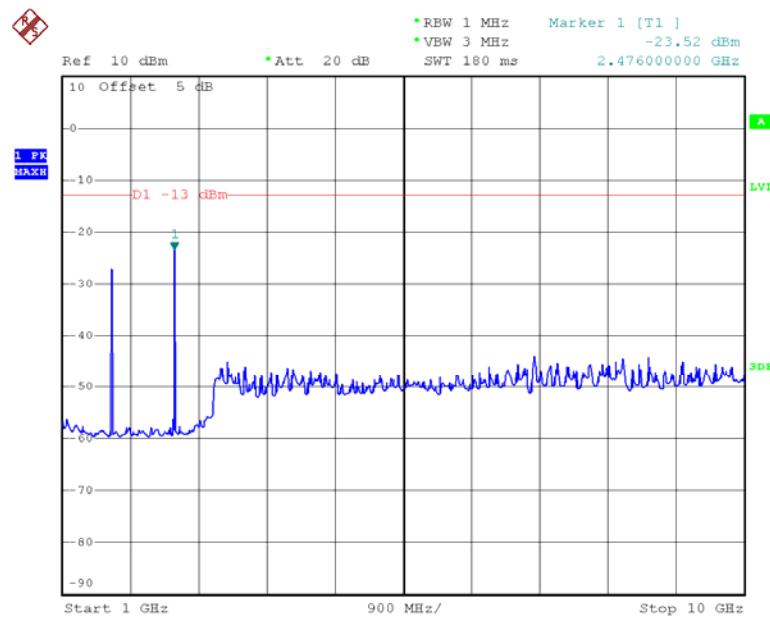


Date: 28.SEP.2019 10:46:35

WCDMA Band 5 REL 99 Middle Channel



Date: 28.SEP.2019 10:59:59



Date: 28.SEP.2019 11:01:23

FCC §2.1053, §22.917 & §24.238 & §27.53- SPURIOUS RADIATED EMISSIONS

Applicable Standard

FCC § 2.1053, §22.917, § 24.238 and § 27.53;

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = $10 \lg (\text{TXpwr in Watts}/0.001)$ – the absolute level

Spurious attenuation limit in dB = $43 + 10 \log_{10} (\text{power out in Watts})$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2018-12-10	2019-12-10
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10
EMCO	Adjustable Dipole Antenna	3121C	9109-753	Not Required	/
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2019-05-06	2020-05-06
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2019-09-05	2020-09-05
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
TDK RF	Horn Antenna	HRN-0118	130 084	2018-10-12	2021-10-12
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2019-09-05	2020-09-05
Agilent	Signal Generator	E8247C	MY43321350	2018-12-10	2019-12-10
R&S	Spectrum Analyzer	FSP 38	100478	2019-05-09	2020-05-09
HP	Amplifier	8447D	2727A05902	2019-09-05	2020-09-05
MITEQ	Amplifier	AFS42-00101800-25-S-42	2001271	2019-09-05	2020-09-05
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2016-11-18	2019-11-18
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2016-11-18	2019-11-18
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2019-06-27	2020-06-27
Sinoscite	Band-stop filter	BSF1710-1785MN-0383-003	0383003	2019-06-16	2020-06-16
Sinoscite	Band-stop filter	BSF824-862MS-1438-001	1438001	2019-06-16	2020-06-16
Sinoscite	Band-stop filter	BSF1850-1910MS-0935V2	0935V2	2019-06-16	2020-06-16

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	26.4°C	27.3°C
Relative Humidity:	58%	53%
ATM Pressure:	101kPa	101kPa
Tester:	Jackson	Vern Shen
Test Date:	2019-09-28	2019-09-28

Test Result: Compliance.

EUT Operation Mode: Transmitting

Cellular Band (PART 22H)

30 MHz-10 GHz:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM850, Frequency:836.600 MHz								
1673.200	H	58.63	-45.75	10.5	1.27	-36.5	-13.0	23.5
1673.200	V	63.23	-41.08	10.5	1.27	-31.8	-13.0	18.8
2509.800	H	61.70	-41.07	12.2	1.25	-30.1	-13.0	17.1
2509.800	V	63.23	-40.93	12.2	1.25	-30.0	-13.0	17.0
3346.400	H	72.90	-28.29	12.3	1.58	-17.6	-13.0	4.6
3346.400	V	71.70	-28.42	12.3	1.58	-17.7	-13.0	4.7
175.500	H	52.77	-58.36	0.0	0.24	-58.6	-13.0	45.6
811.820	V	48.50	-46.61	0.0	0.49	-47.1	-13.0	34.1
WCDMA Band V, Frequency:836.600 MHz								
1673.200	H	39.26	-65.12	10.5	1.27	-55.9	-13.0	42.9
1673.200	V	37.64	-66.67	10.5	1.27	-57.4	-13.0	44.4
2509.800	H	40.21	-62.56	12.2	1.25	-51.6	-13.0	38.6
2509.800	V	38.70	-65.46	12.2	1.25	-54.5	-13.0	41.5
3346.400	H	42.21	-58.98	12.3	1.58	-48.3	-13.0	35.3
3346.400	V	43.59	-56.53	12.3	1.58	-45.9	-13.0	32.9
175.500	H	52.92	-58.21	0.0	0.24	-58.5	-13.0	45.5
45.520	V	55.22	-37.39	-19.3	0.19	-56.9	-13.0	43.9

PCS Band (PART 24E)**30 MHz-20 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM1900, Frequency:1880.000 MHz								
3760.000	H	61.13	-39.08	12.3	1.53	-28.4	-13.0	15.4
3760.000	V	59.64	-40.27	12.3	1.53	-29.6	-13.0	16.6
5640.000	H	64.25	-31.05	13.0	1.28	-19.3	-13.0	6.3
5640.000	V	61.64	-33.97	13.0	1.28	-22.3	-13.0	9.3
7520.000	H	58.50	-33.02	12.8	1.33	-21.5	-13.0	8.5
7520.000	V	60.76	-31.45	12.8	1.33	-20.0	-13.0	7.0
9400.000	H	53.81	-36.04	12.9	1.92	-25.0	-13.0	12.0
9400.000	V	56.22	-34.7	12.9	1.92	-23.7	-13.0	10.7
175.500	H	52.96	-58.17	0.0	0.24	-58.4	-13.0	45.4
377.260	V	47.83	-56.95	0.0	0.36	-57.3	-13.0	44.3
WCDMA Band II, Frequency:1880.000 MHz								
3760.000	H	54.63	-45.58	12.3	1.53	-34.9	-13.0	21.9
3760.000	V	54.26	-45.65	12.3	1.53	-34.9	-13.0	21.9
5640.000	H	48.24	-47.06	13.0	1.28	-35.3	-13.0	22.3
5640.000	V	49.39	-46.22	13.0	1.28	-34.5	-13.0	21.5
7520.000	H	41.84	-49.68	12.8	1.33	-38.2	-13.0	25.2
7520.000	V	41.22	-50.99	12.8	1.33	-39.5	-13.0	26.5
175.500	H	52.55	-58.58	0.0	0.24	-58.8	-13.0	45.8
45.520	V	53.91	-38.7	-19.3	0.19	-58.2	-13.0	45.2

AWS Band (PART 27)**30 MHz-20 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band IV, Frequency:1732.600 MHz								
3465.200	H	53.71	-47.26	12.2	1.6	-36.7	-13.0	23.7
3465.200	V	56.21	-43.35	12.2	1.6	-32.7	-13.0	19.7
5197.800	H	39.38	-56.7	12.9	1.36	-45.1	-13.0	32.1
5197.800	V	39.11	-56.94	12.9	1.36	-45.4	-13.0	32.4
6930.400	H	44.13	-47.84	13.5	1.81	-36.2	-13.0	23.2
6930.400	V	46.91	-45.23	13.5	1.81	-33.5	-13.0	20.5
175.500	H	53.63	-58.58	0.0	0.24	-58.8	-13.0	45.8
45.520	V	55.56	-38.7	-19.3	0.19	-58.2	-13.0	45.2

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

FCC §22.917(a) & §24.238(a) & §27.53 - BAND EDGES

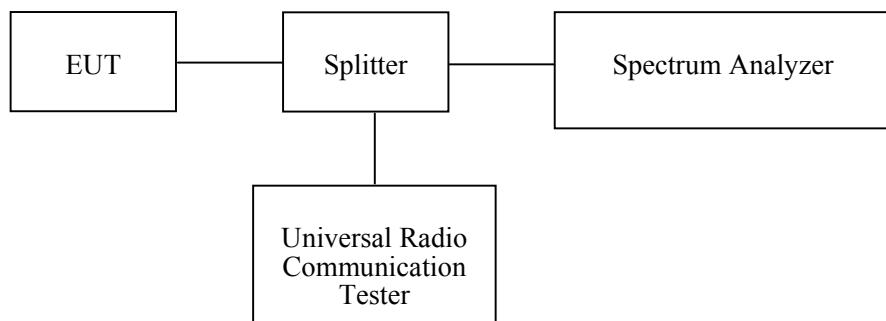
Applicable Standard

FCC § 2.1053, §22.917, § 24.238 and § 27.53

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2019-05-09	2020-05-09
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010013	Each time	/
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	/
E-Microwave	Two-way Spliter	ODP-1-6-2S	OE0120142	Each time	/

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

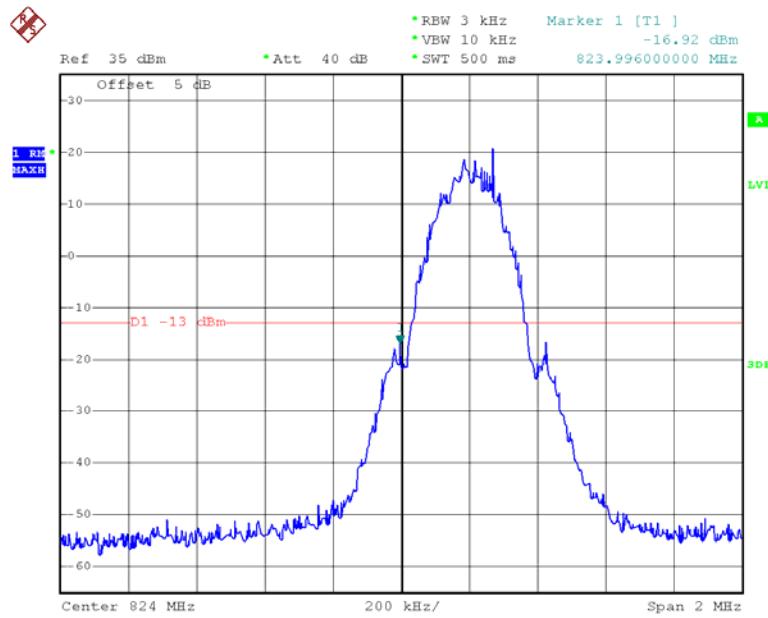
Test Data

Environmental Conditions

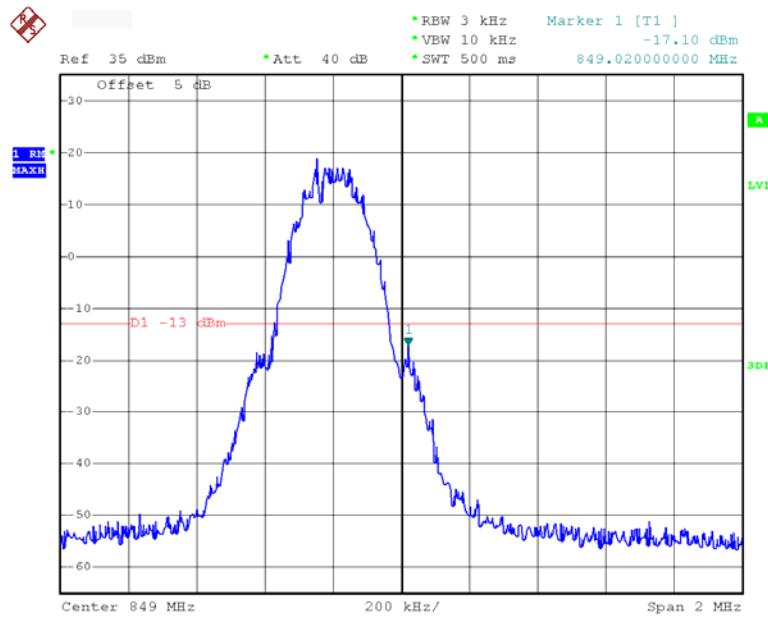
Temperature:	27.2°C
Relative Humidity:	65%
ATM Pressure:	101~101.5kPa
Tester:	Chris Mo
Test Date:	2019-09-27~2019-09-28

Test Mode: Transmitting

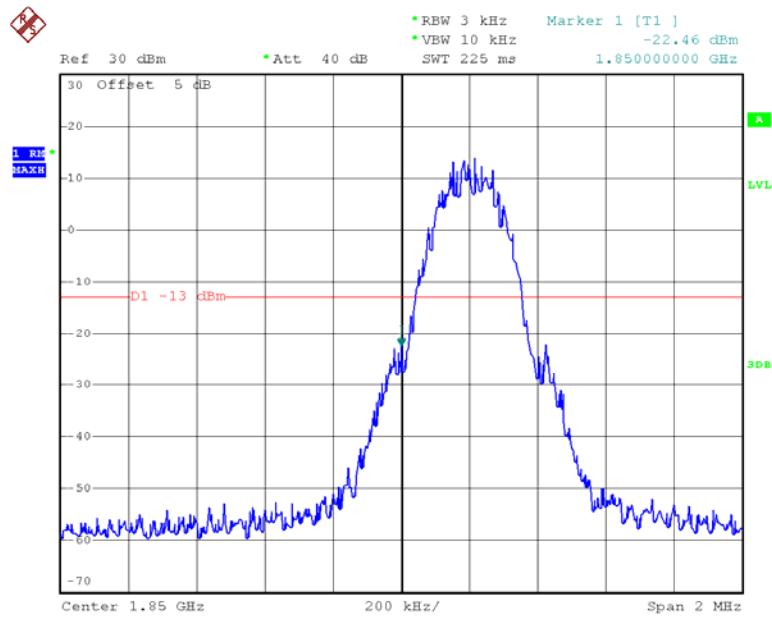
Test Result: Compliance. Please refer to the following plots.

GSM 850, Left Band Edge

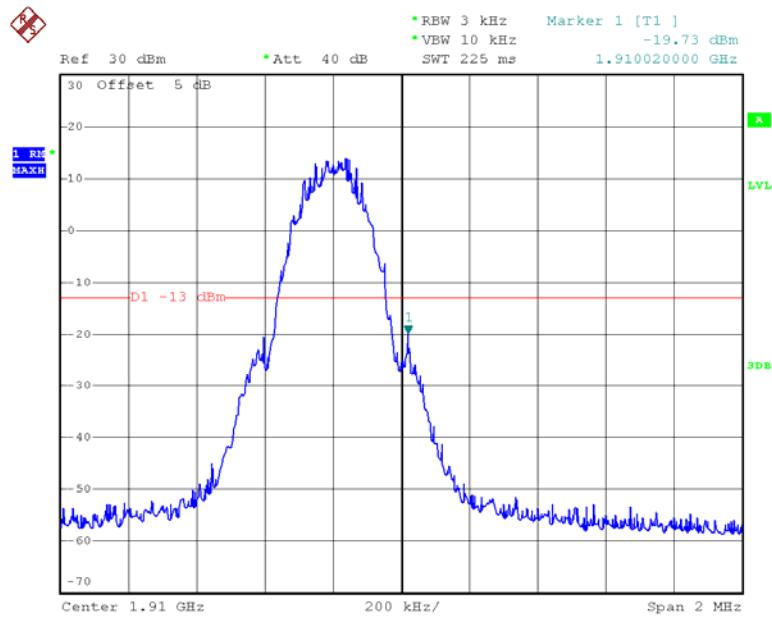
Date: 28.SEP.2019 10:06:15

GSM 850, Right Band Edge

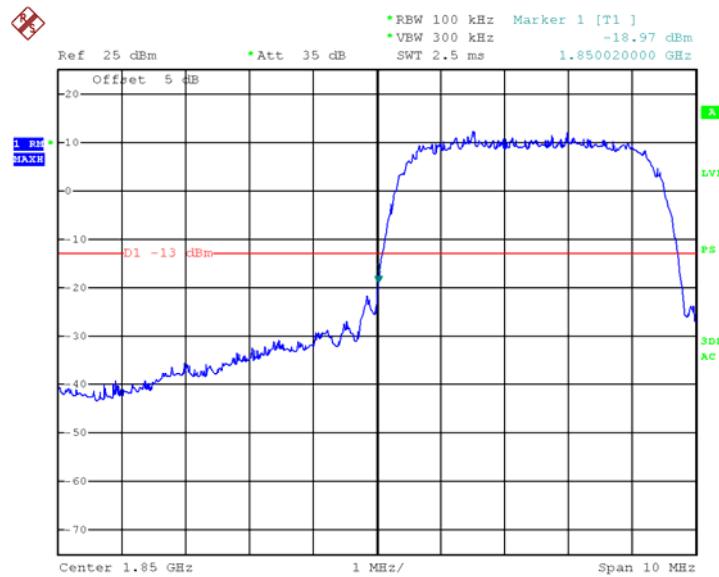
Date: 28.SEP.2019 10:07:21

GSM 1900, Left Band Edge

Date: 28.SEP.2019 10:21:13

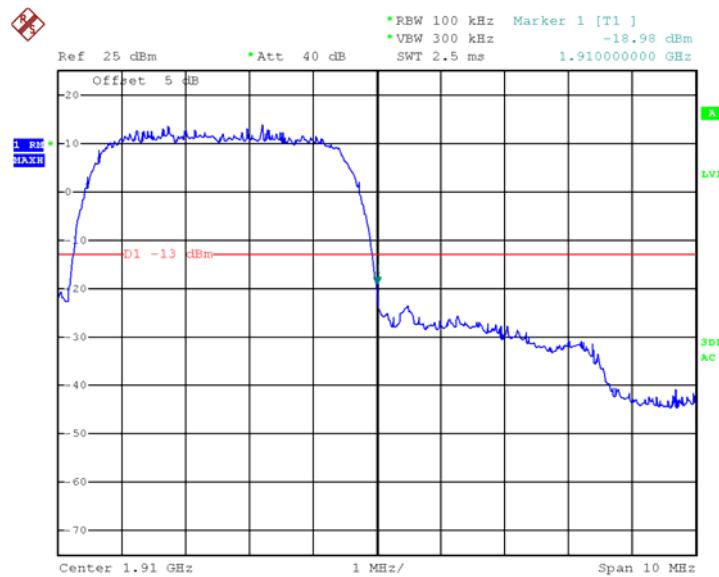
GSM 1900, Right Band Edge

Date: 28.SEP.2019 10:22:30

WCDMA Band 2 REL99, Left Band Edge

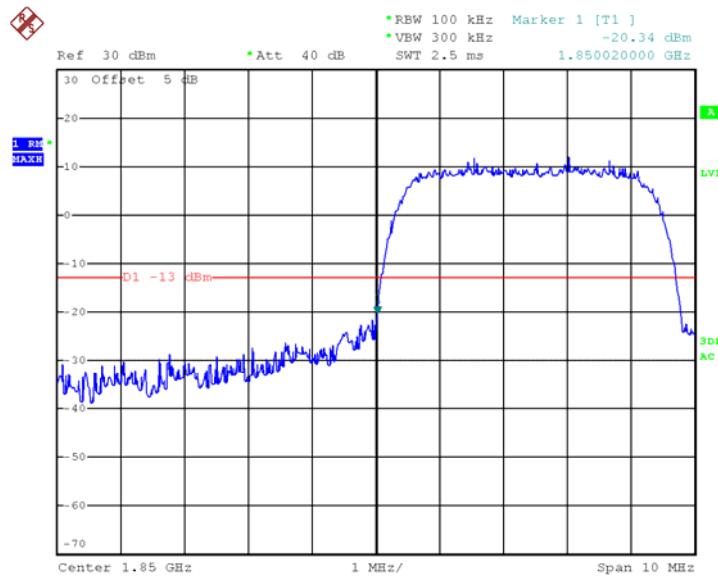
AB

Date: 27.SEP.2019 19:36:43

WCDMA Band 2 REL99, Right Band Edge

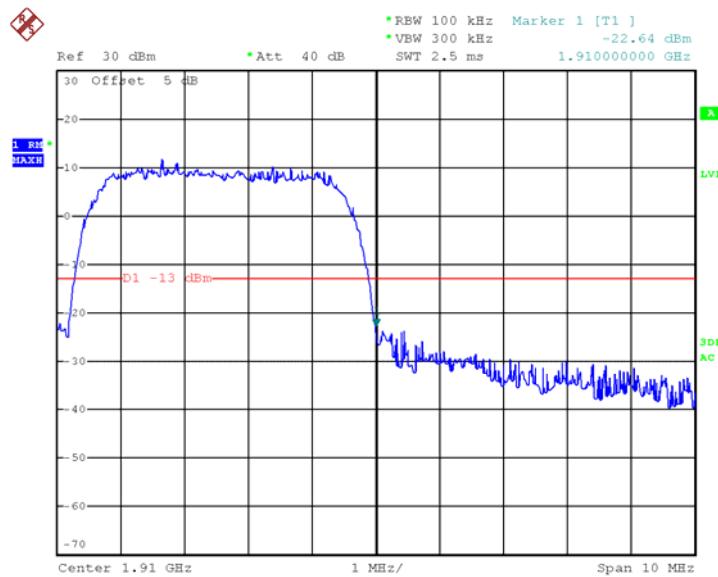
AB

Date: 27.SEP.2019 19:55:26

WCDMA Band 2 HSDPA, Left Band Edge

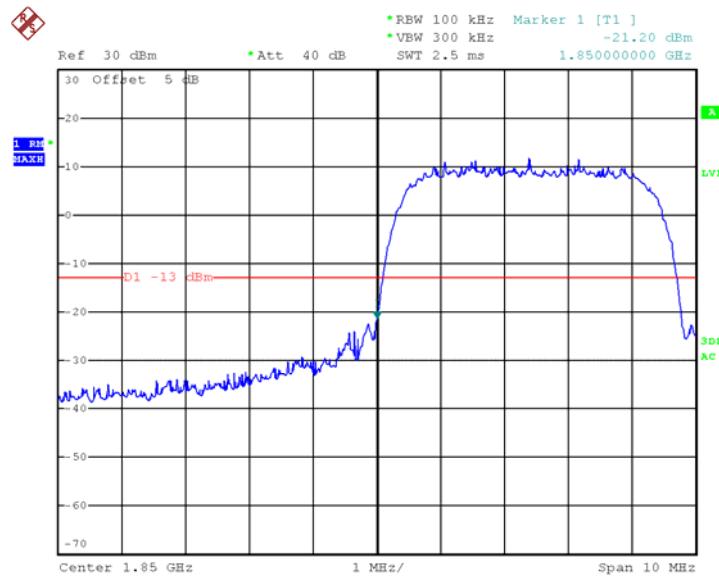
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Date: 27.SEP.2019 20:18:56

WCDMA Band 2 HSDPA, Right Band Edge

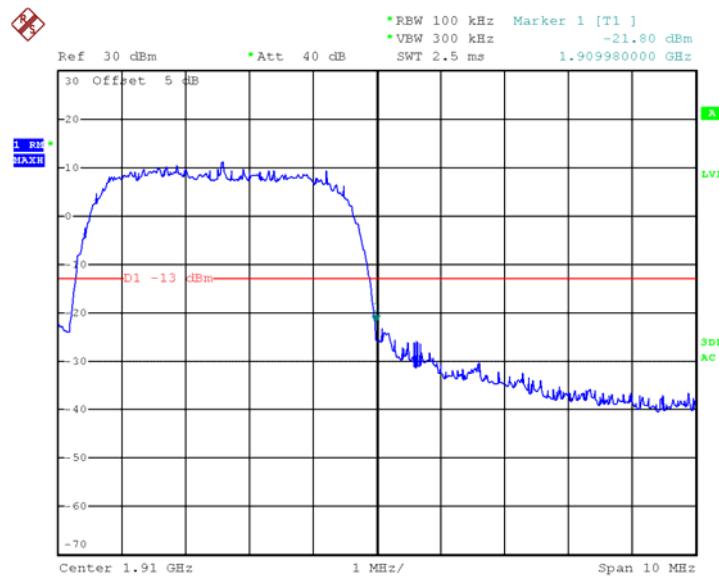
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Date: 27.SEP.2019 20:09:37

WCDMA Band 2 HSUPA, Left Band Edge

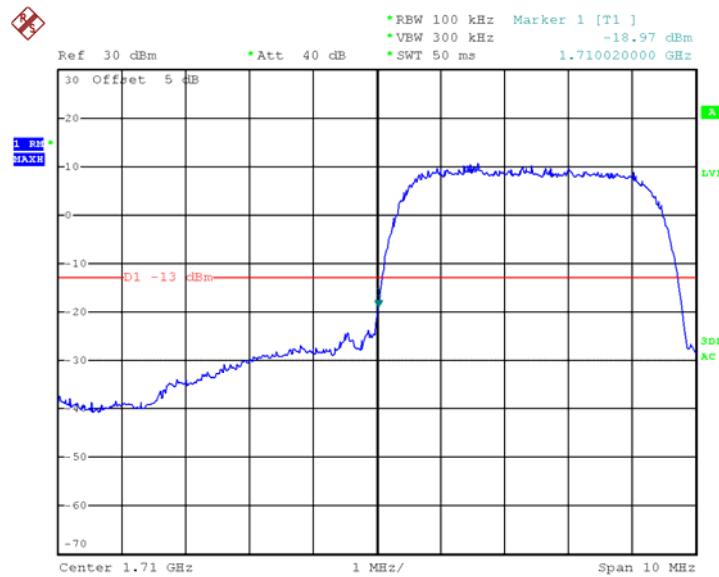
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Date: 27.SEP.2019 20:20:22

WCDMA Band 2 HSUPA, Right Band Edge

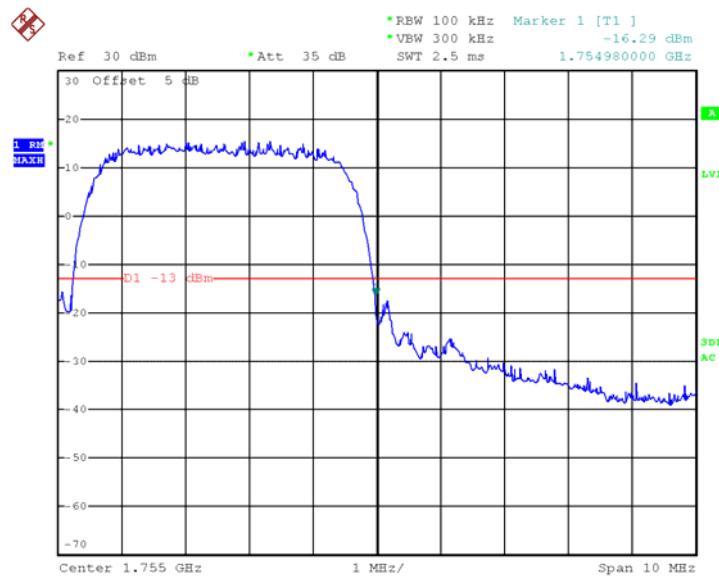
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Date: 27.SEP.2019 20:28:25

WCDMA Band 4 REL 99, Left Band Edge

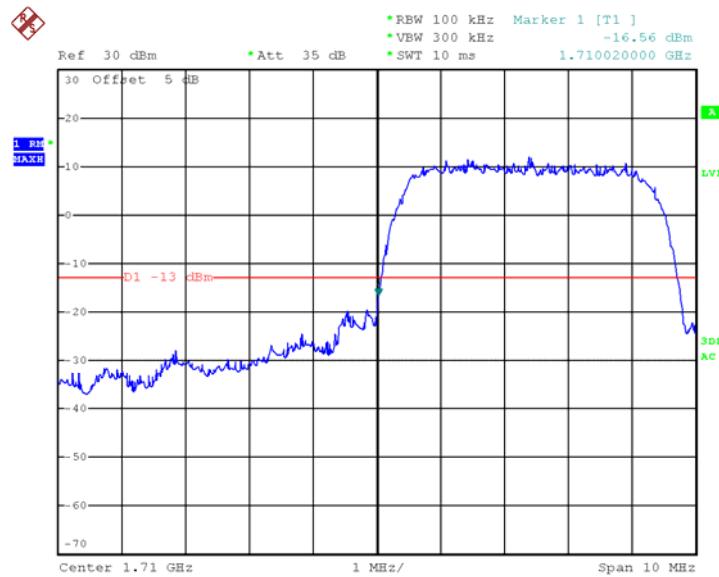
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Date: 27.SEP.2019 20:34:11

WCDMA Band 4 REL 99, Right Band Edge

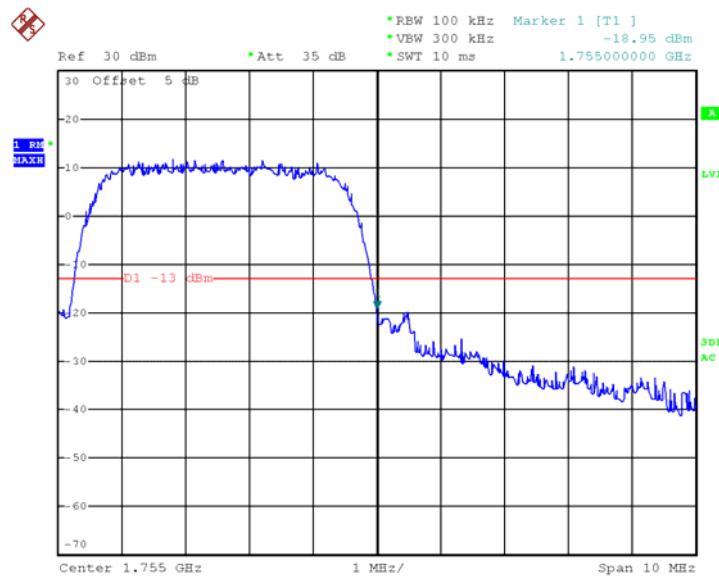
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Date: 27.SEP.2019 20:44:43

WCDMA Band 4 HSDPA, Left Band Edge

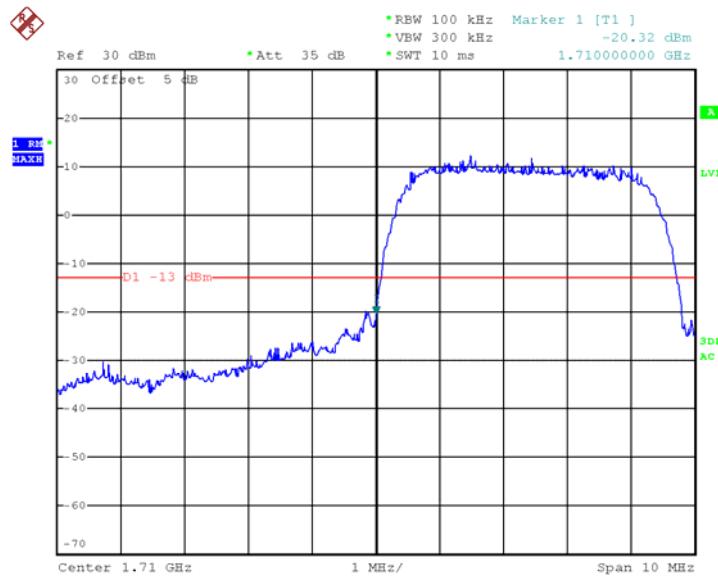
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Date: 27.SEP.2019 20:58:48

WCDMA Band 4 HSDPA, Right Band Edge

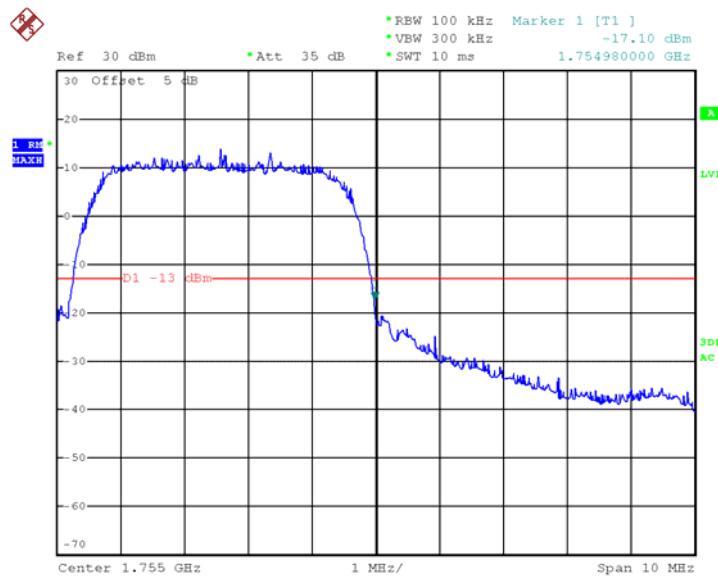
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Date: 27.SEP.2019 20:52:54

WCDMA Band 4 HSUPA, Left Band Edge

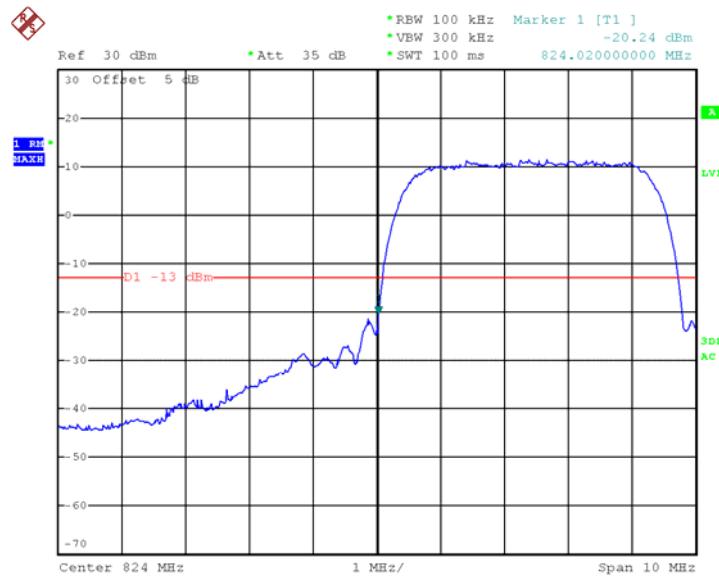
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Date: 27.SEP.2019 21:01:46

WCDMA Band 4 HSUPA, Right Band Edge

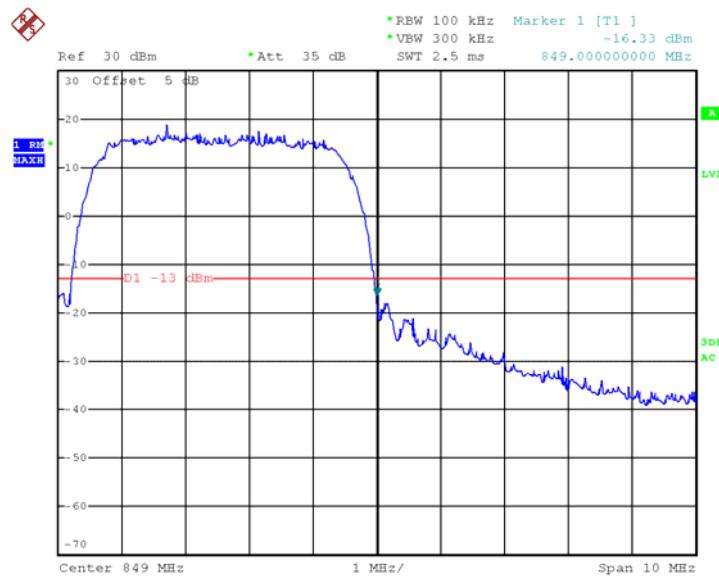
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Date: 27.SEP.2019 21:31:38

WCDMA Band 5 REL99, Left Band Edge

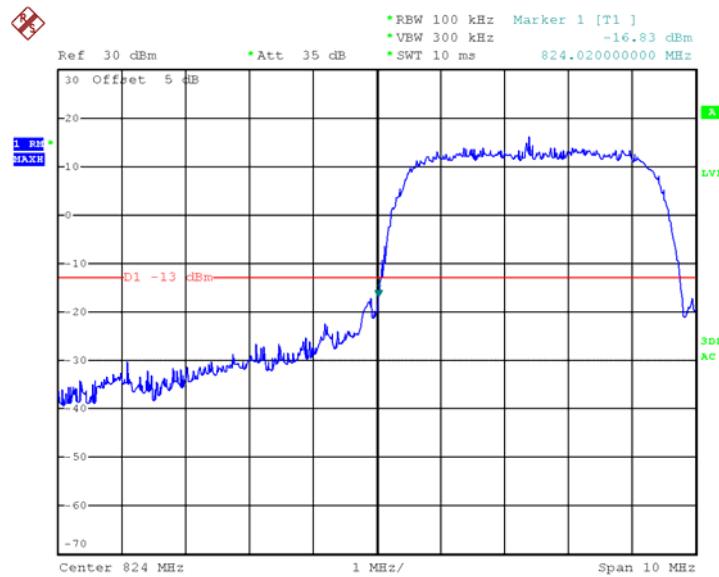
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Date: 27.SEP.2019 21:11:04

WCDMA Band 5 REL99, Right Band Edge

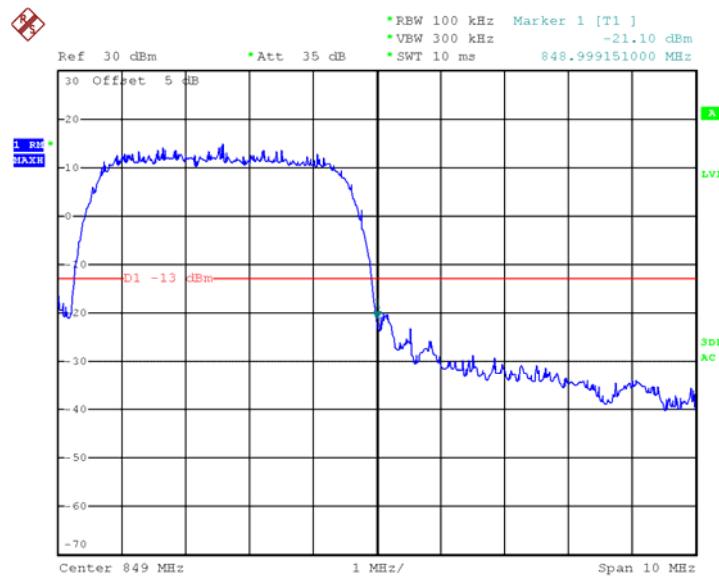
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Date: 27.SEP.2019 21:15:00

WCDMA Band 5 HSDPA, Left Band Edge

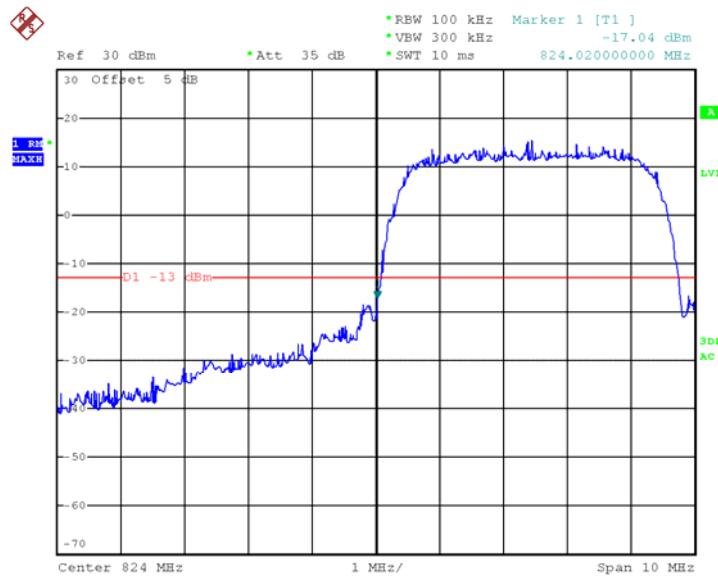
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Date: 27.SEP.2019 21:23:07

WCDMA Band 5 HSDPA, Right Band Edge

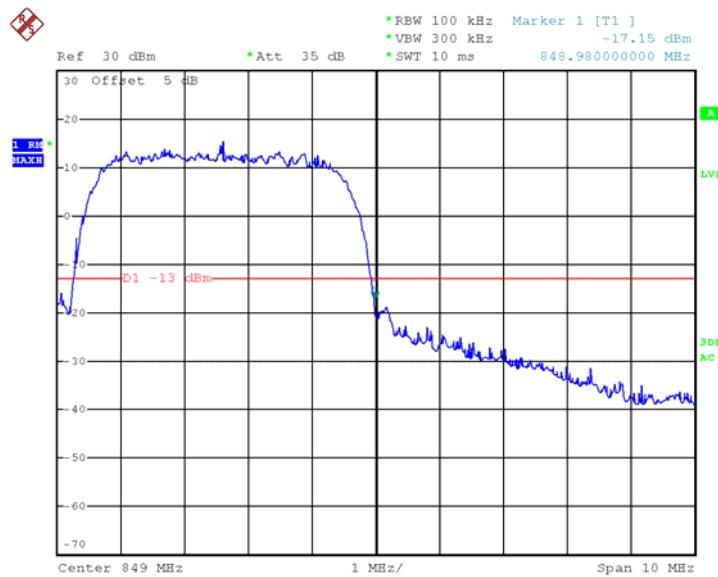
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Date: 27.SEP.2019 21:19:20

WCDMA Band 5 HSUPA, Left Band Edge

AB

Date: 27.SEP.2019 21:24:02

WCDMA Band 5 HSUPA, Right Band Edge

AB

Date: 27.SEP.2019 21:28:02

FCC §2.1055, §22.355 & §24.235 & §27.54 - FREQUENCY STABILITY

Applicable Standard

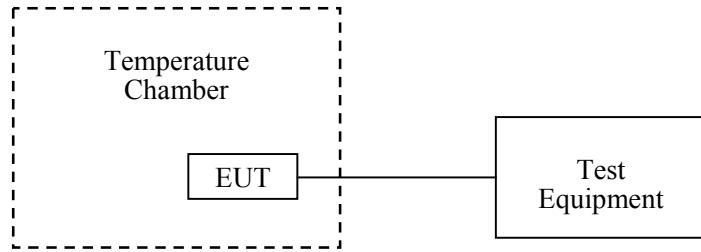
FCC § 2.1055 (a), § 2.1055 (d), §22.355, §24.235, §27.54

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set from 85% to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2019-05-09	2020-05-09
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010013	Each time	/
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	/
E-Microwave	Two-way Spliter	ODP-1-6-2S	OE0120142	Each time	/
R&S	Universal Radio Communication Tester	CMU200	106 891	2018-12-14	2019-12-14
ESPEC	Constant temperature and humidity Tester	ESX-4CA	018 463	2019-03-26	2020-03-26
UNI-T	Multimeter	UT39A	M130199938	2019-07-24	2020-07-24
Pro instrument	DC Power Supply	pps3300	3300012	N/A	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	27.2°C
Relative Humidity:	65%
ATM Pressure:	101kPa
Tester:	Chris Mo
Test Date:	2019-09-28

Test Result: Compliance.

Cellular Band

GMSK, Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.7	-21	-0.02510	2.5
-20		-22	-0.02630	
-10		-23	-0.02749	
0		-12	-0.01434	
10		-9	-0.01076	
20		-23	-0.02749	
30		-22	-0.02630	
40		-21	-0.02510	
50		-18	-0.02152	
20	3.5	-20	-0.02391	
20	4.2	-21	-0.02510	

PCS Band

GMSK, Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Results
°C	V _{DC}	Hz	ppm	
-30	3.7	-21	-0.01117	Pass
-20		-26	-0.01383	
-10		-23	-0.01223	
0		-22	-0.01170	
10		-21	-0.01117	
20		-29	-0.01543	
30		-27	-0.01436	
40		-27	-0.01436	
50		-26	-0.01383	
20	3.5	-22	-0.01170	
20	4.2	-23	-0.01223	

WCDMA Band II: R99

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V _{DC}	Hz	ppm	
-30	3.7	7	0.00372	Pass
-20		9	0.00479	
-10		9	0.00479	
0		8	0.00426	
10		7	0.00372	
20		6	0.00319	
30		9	0.00479	
40		8	0.00426	
50		6	0.00319	
20	3.5	2	0.00106	
20	4.2	8	0.00426	

WCDMA Band V: R99

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.7	10	0.01195	2.5
-20		12	0.01434	
-10		13	0.01554	
0		11	0.01315	
10		13	0.01554	
20		11	0.01315	
30		10	0.01195	
40		9	0.01076	
50		8	0.00956	
20	3.5	11	0.01315	
20	4.2	13	0.01554	

WCDMA Band IV:

WCDMA Band IV Rel 99					
Temperature	Voltage	Test Result (MHz)		Limit (MHz)	
°C	V _{DC}	F _L	F _H	F _L	F _H
-30	3.7	1710.640	1754.240	1710	1755
-20		1710.720	1754.230	1710	1755
-10		1710.670	1754.240	1710	1755
0		1710.680	1754.230	1710	1755
10		1710.620	1754.210	1710	1755
20		1710.680	1754.240	1710	1755
30		1710.540	1754.220	1710	1755
40		1710.610	1754.240	1710	1755
50		1710.650	1754.230	1710	1755
20	3.5	1710.630	1754.210	1710	1755
20	4.2	1710.610	1754.240	1710	1755

******* END OF REPORT *******