

FCC PART 22H, PART 24E TEST REPORT

For

DDM Brands LLC

1616 NW, 84TH Ave. Miami, Florida, U.S.A

FCC ID: A4JANDY5QL

Report Type: Original Report	Product Type: LTE mobile phone
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Report Number: RSZ141126002-00D	
Report Date: 2014-12-04	
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The DDM Brands LLC's product, model number: ANDY 5Q (FCC ID: A4JANDY5QL) or the "EUT" in this report was a LTE mobile phone, which was measured approximately: 143 mm (L) x 73 mm (W) x 8 mm (H), rated input voltage: DC 3.8 V battery or DC 5.0V from adapter.

Adapter Information:

Model: YW1000US

Input: AC100-240V, 50/60Hz, 0.2A

Output: DC 5.0V, 1A

Note: the product, series model Andy 5Q, Andy 5QL, AM5QL133, Andy C5Q, Andy C5QL and AC5QL133 are identical schematics as model ANDY 5Q, which was selected for fully testing. The only difference between them is the model number. The detailed information can be referred to the attached declaration which was stated and guaranteed by the applicant.

**All measurement and test data in this report was gathered from production sample serial number: 1411216 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2014-11-26*

Objective

This test report is prepared on behalf of DDM Brands LLC in accordance with Part 2-Subpart J, Part 22-Subpart H and Part 24-Subpart E of the Federal Communication Commissions rules.

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

Related Submittal(s)/Grant(s)

FCC Part 15.247 DTS&DSS, Part 27 PCE and Part 15B JBP submissions with FCC ID: A4JANDY5QL.

Test Methodology

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

Part 22 Subpart H - Public Mobile Services

Part 24 Subpart E - Personal Communication Services

Applicable Standards: TIA/EIA 603-D, ANSI C63.4-2009.

All radiated and conducted emissions measurements were performed at Bay Area Compliance Laboratories Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement uncertainty with radiated emission is 5.91 dB for 30MHz-1GHz and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp.(Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing according to TIA/EIA-603-D.
The final qualification test was performed with the EUT operating at normal mode.

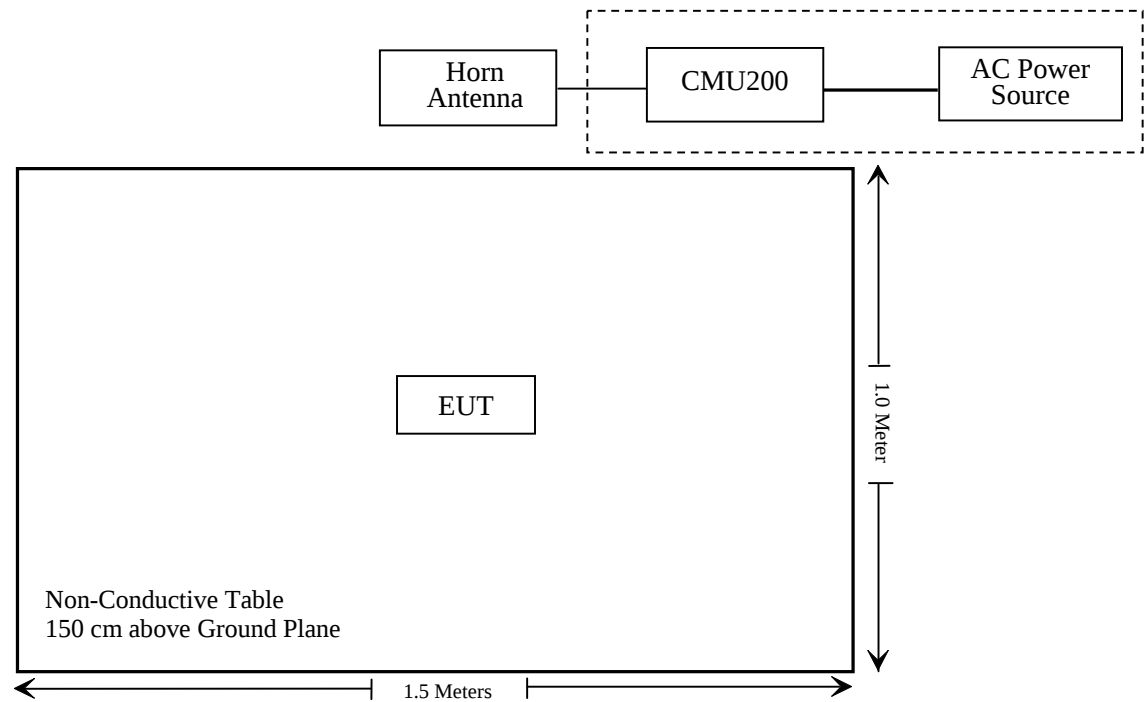
Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307, §2.1093	RF Exposure (SAR)	Compliance*
§2.1046; § 22.913 (a); § 24.232 (c)	RF Output Power	Compliance
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905 § 22.917; § 24.238	Bandwidth	Compliance
§ 2.1051, § 22.917 (a); § 24.238 (a)	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053 § 22.917 (a); § 24.238 (a)	Field Strength of Spurious Radiation	Compliance
§ 22.917 (a); § 24.238 (a)	Out of band emission, Band Edge	Compliance
§ 2.1055 § 22.355; § 24.235	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance

Note: * Please refer to SAR report released by BACL, report number: RSZ141126002-20.

FCC §1.1307 & §2.1093 - RF EXPOSURE

Applicable Standard

FCC§1.1307 and §2.1093.

Test Result

Compliance, please refer to the SAR report: RSZ141126002-20.

FCC §2.1047 - MODULATION CHARACTERISTIC

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

FCC § 2.1046, § 22.913 (a) & § 24.232 (c) - 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..

Test Procedure

Conducted method:

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



Radiated method:

TIA 603-D section 2.2.17

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Horn Antenna	DRH-118	A052304	2014-12-01	2015-11-30
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-8-22	2015-08-22
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03 -101746-zn	2014-06-13	2015-06-13
Sunol Sciences	Broadband Antenna	JB3	A111513	2014-6-18	2017-6-17
HP	Signal Generator	8341B	2624A00116	2014-06-03	2015-06-03
COM POWER	Dipole Antenna	AD-100	041000	NCR	NCR
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2015-02-10
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891	2014-11-23	2015-11-23

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

Test Data**Environmental Conditions**

Temperature:	20 °C
Relative Humidity:	5 %
ATM Pressure:	101.0 kPa

The testing was performed by William Li on 2014-12-01

Conducted Power**Cellular Band (Part 22H)**

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)
GSM	128	824.2	32.26	38.45
	190	836.6	32.34	38.45
	251	848.8	32.36	38.45

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	
GPRS	128	824.2	32.28	31.70	30.16	29.16	38.45
	190	836.6	32.34	31.72	30.21	29.16	38.45
	251	848.8	32.37	31.75	30.22	29.16	38.45

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	
EDGE	128	824.2	25.69	24.22	22.02	20.78	38.45
	190	836.6	25.42	23.97	21.73	20.52	38.45
	251	848.8	25.11	23.65	21.42	20.27	38.45

Mode	Test Condition	Test Mode	3GPP Sub Test	Average Output Power (dBm)		
				Low Frequency	Middle Frequency	High Frequency
WCDMA (Band V)	Normal	RMC12.2k		22.49	22.51	22.52
		Rel 6 HSDPA	1	21.42	21.43	21.34
			2	21.32	21.34	21.31
			3	21.55	21.49	21.41
			4	21.39	21.36	21.29
		Rel 6 HSUPA	1	21.38	21.39	21.31
			2	21.30	21.36	21.20
			3	21.45	21.43	21.41
			4	21.31	21.31	21.19
			5	21.50	21.44	21.36

PCS Band (Part 24E)

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)
GSM	512	1850.2	29.74	33
	661	1880.0	29.56	33
	810	1909.8	29.70	33

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	
GPRS	512	1850.2	29.73	29.16	27.52	26.36	33
	661	1880.0	29.56	28.93	27.31	26.12	33
	810	1909.8	29.70	29.10	27.46	26.30	33

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	
EDGE	512	1850.2	25.74	24.37	22.40	21.19	33
	661	1880.0	25.56	24.17	22.24	20.90	33
	810	1909.8	25.68	24.24	22.19	21.06	33

Mode	Test Condition	Test Mode	3GPP Sub Test	Average Output Power (dBm)		
				Low Frequency	Middle Frequency	High Frequency
WCDMA (Band II)	Normal	RMC12.2k		22.73	22.65	22.85
		Rel 6 HSDPA	1	21.62	21.44	21.71
			2	21.52	21.38	21.62
			3	21.57	21.37	21.56
			4	21.56	21.35	21.65
		Rel 6 HSUPA	1	21.56	21.64	21.75
			2	21.46	21.61	21.71
			3	21.65	21.72	21.83
			4	21.45	21.59	21.71
			5	21.69	21.77	21.82

Note: Peak-to-average ratio (PAR)<13dB

Radiated Power (Measured at Max. conducted power channel)

ERP & EIRP

GSM Mode:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	FCC Part 22H/24E	
			Height (m)	Polar (H/V)	S.G. Level (dBm)	Cable loss (dB)	Antenna Gain (dB)		Limit (dBm)	Margin (dB)
ERP for Cellular Band (Part 22H), High Channel										
848.8	97.65	250	1.6	H	26.1	0.69	0.0	25.41	38.45	13.04
848.8	102.42	330	1.8	V	31.4	0.69	0.0	30.71	38.45	7.74
EIRP for PCS Band (Part 24E), Low Channel										
1850.2	89.82	210	1.5	H	17.6	1.03	9.40	25.97	33	7.03
1850.2	91.42	140	1.2	V	19.3	1.03	9.40	27.67	33	5.33

EDGE Mode:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	FCC Part 22H/24E	
			Height (m)	Polar (H/V)	S.G. Level (dBm)	Cable loss (dB)	Antenna Gain (dB)		Limit (dBm)	Margin (dB)
ERP for Cellular Band (Part 22H), Low Channel										
824.2	90.14	234	1.5	H	19.0	0.69	0.0	18.31	38.45	20.14
824.2	95.43	309	1.4	V	24.3	0.69	0.0	23.61	38.45	14.84
EIRP for PCS Band (Part 24E), Low Channel										
1850.2	86.78	228	1.2	H	14.5	1.03	9.40	22.87	33	10.13
1850.2	88.32	155	1.2	V	16.2	1.03	9.40	24.57	33	8.43

WCDMA Mode:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	FCC Part 22H/24E	
			Height (m)	Polar (H/V)	S.G. Level (dBm)	Cable loss (dB)	Antenna Gain (dB)		Limit (dBm)	Margin (dB)
ERP for WCDMA Band V (Part 22H), High Channel										
846.6	91.70	110	1.3	H	20.5	0.66	0	19.84	38.45	18.61
846.6	92.73	115	1.2	V	21.0	0.66	0	20.34	38.45	18.11
EIRP for WCDMA Band II (Part 24E), High Channel										
1907.6	82.64	250	1.5	H	10.6	1.03	9.40	18.97	33	14.03
1907.6	84.28	10	1.4	V	12.3	1.03	9.40	20.67	33	12.33

Note:

All above data were tested with no amplifier.

Absolute Level = SG Level - Cable loss + Antenna Gain

Margin = Limit- Absolute Level

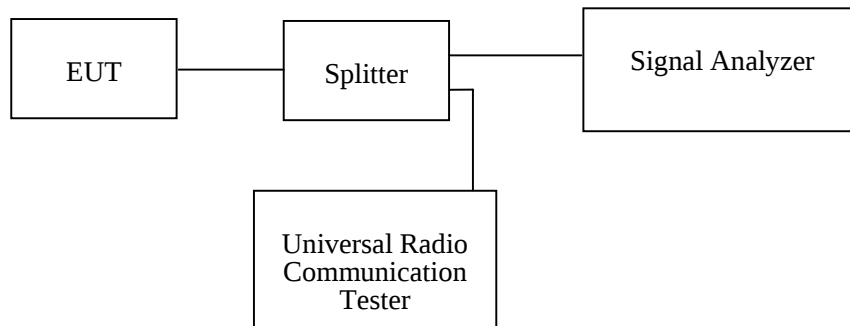
FCC §2.1049, §22.917, §22.905 & §24.238 - BANDWIDTH**Applicable Standard**

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

Test Procedure

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

The resolution bandwidth of the spectrum analyzer was set at 3 kHz (Cellular /PCS) & 100 kHz (WCDMA) and the 26 dB & 99% bandwidth was recorded.

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891	2014-11-23	2015-11-23

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

Test Data**Environmental Conditions**

Temperature:	20 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by William Li on 2014-11-28.

EUT operation mode: Transmitting

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

Cellular Band (Part 22H)

Mode	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM(GMSK)	836.6	252.5	320.6
EDGE(8PSK)	836.6	252.5	312.6

Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
WCDMA (BPSK)	836.6	4.208	4.870
HSUPA (BPSK)	836.6	4.208	4.890
HSDPA (16QAM)	836.6	4.228	4.910

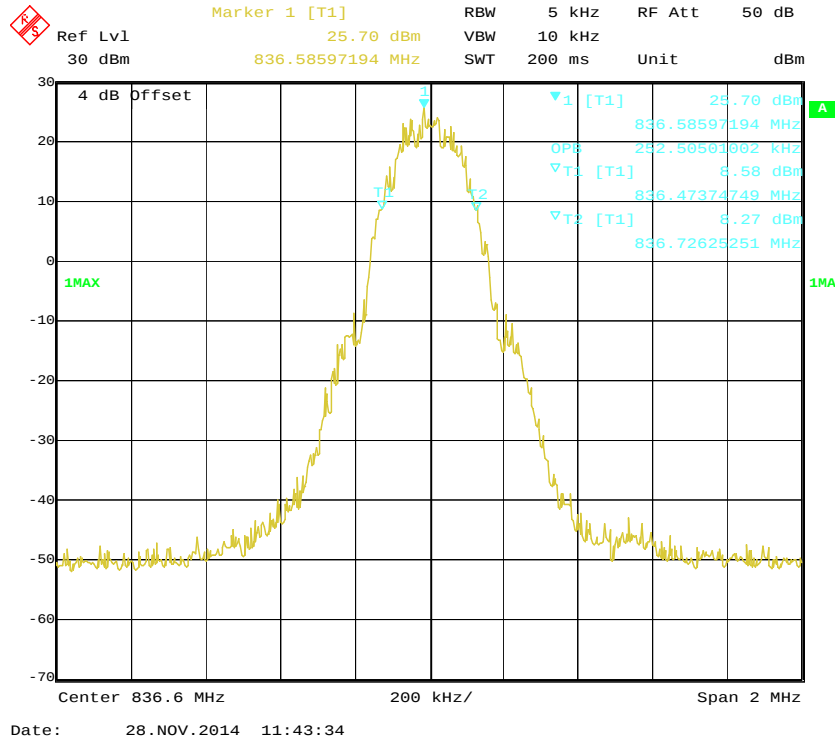
PCS Band (Part 24E)

Mode	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM(GMSK)	1880.0	248.5	316.6
EDGE(8PSK)	1880.0	248.5	320.6

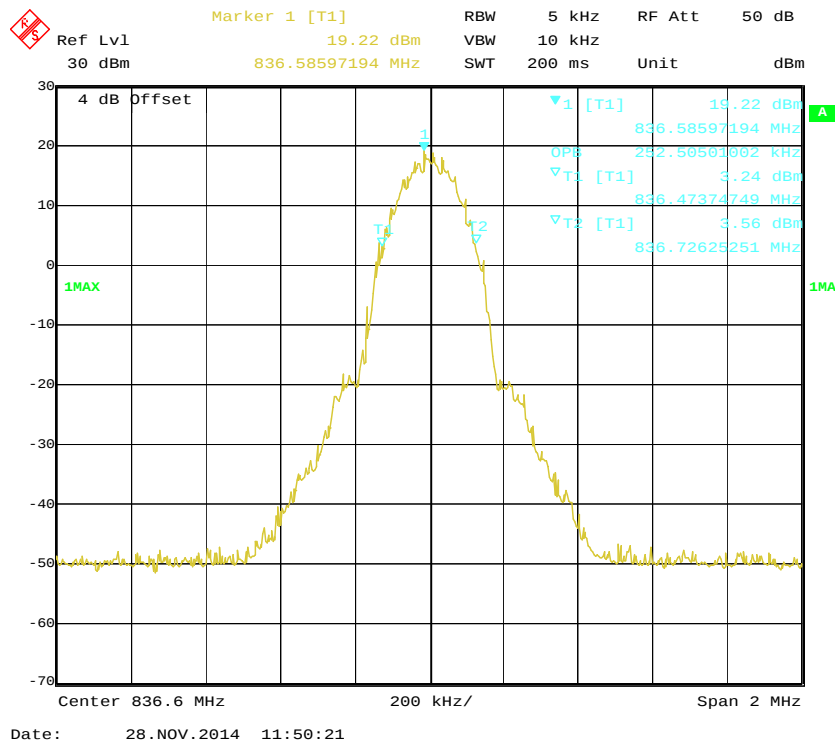
Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
WCDMA (BPSK)	1880.0	4.248	4.850
HSUPA (BPSK)	1880.0	4.228	4.890
HSDPA (16QAM)	1880.0	4.228	4.890

Cellular Band (Part 22H)

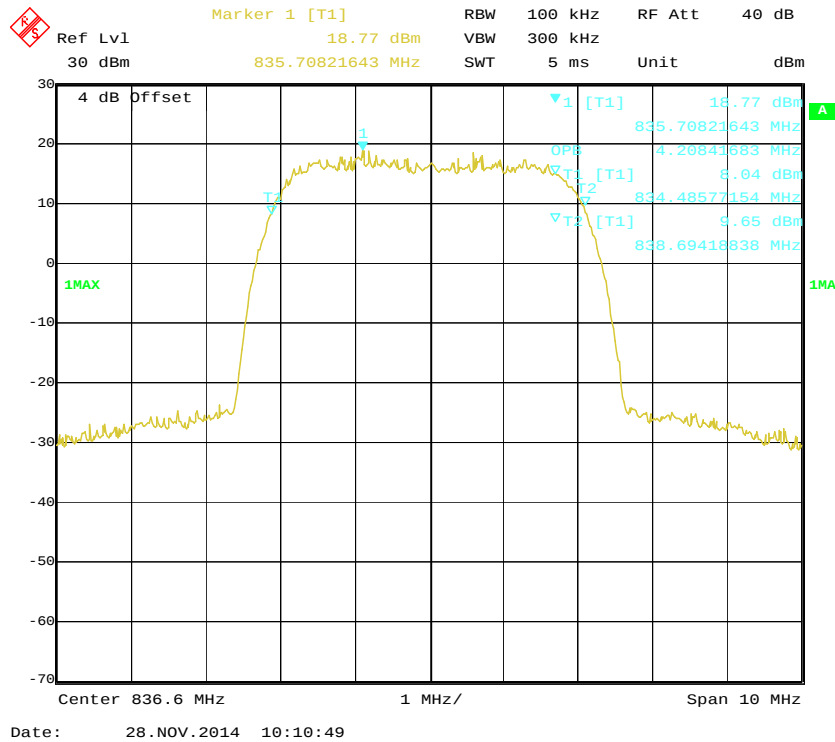
99% Occupied Bandwidth for GSM (GMSK) Mode



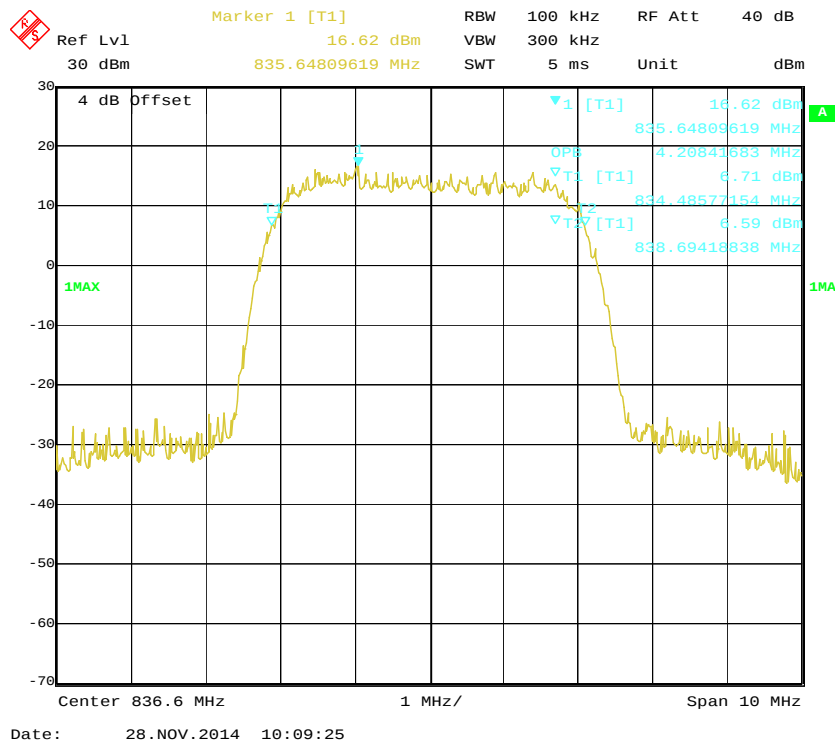
99% Occupied Bandwidth for EDGE Mode

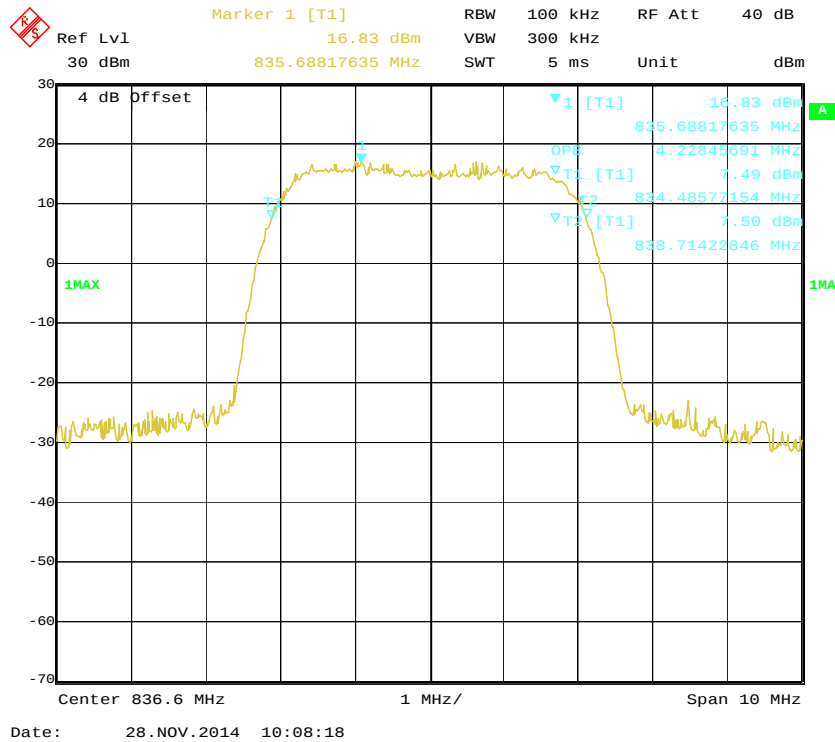
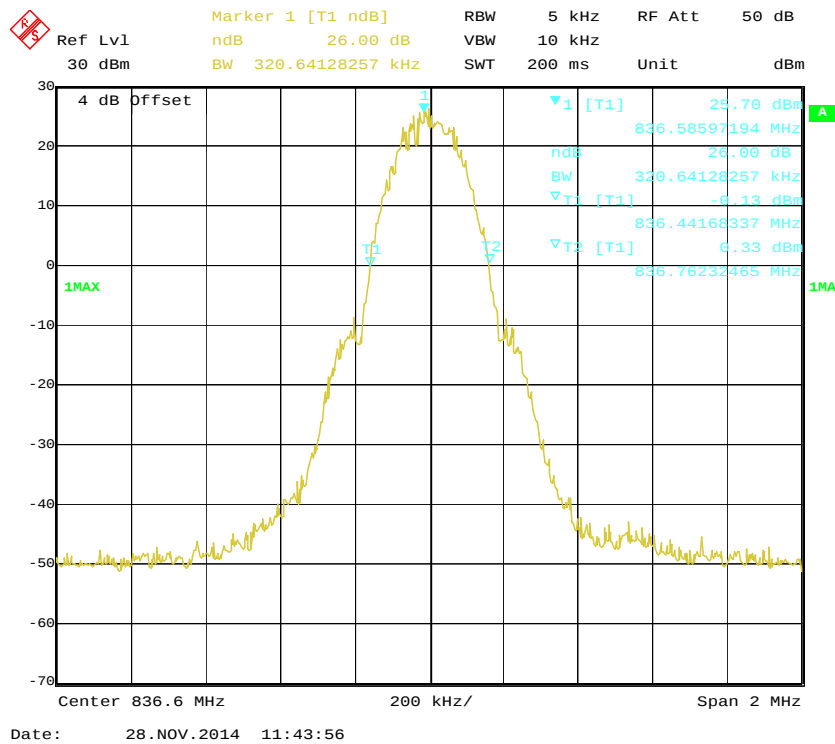


99% Occupied Bandwidth for WCDMA (BPSK) Mode

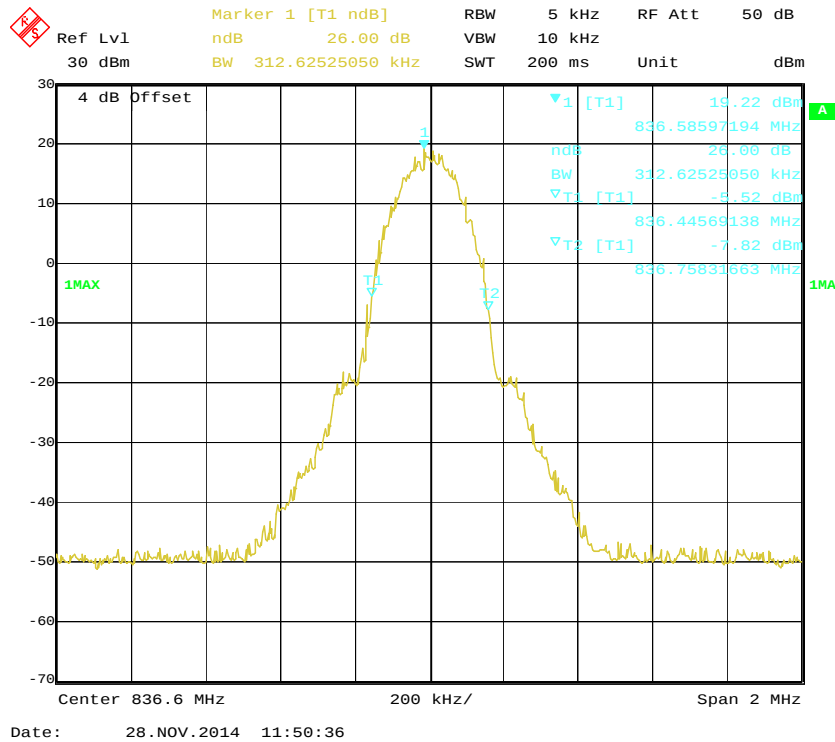


99% Occupied Bandwidth for HSUPA (BPSK) Mode

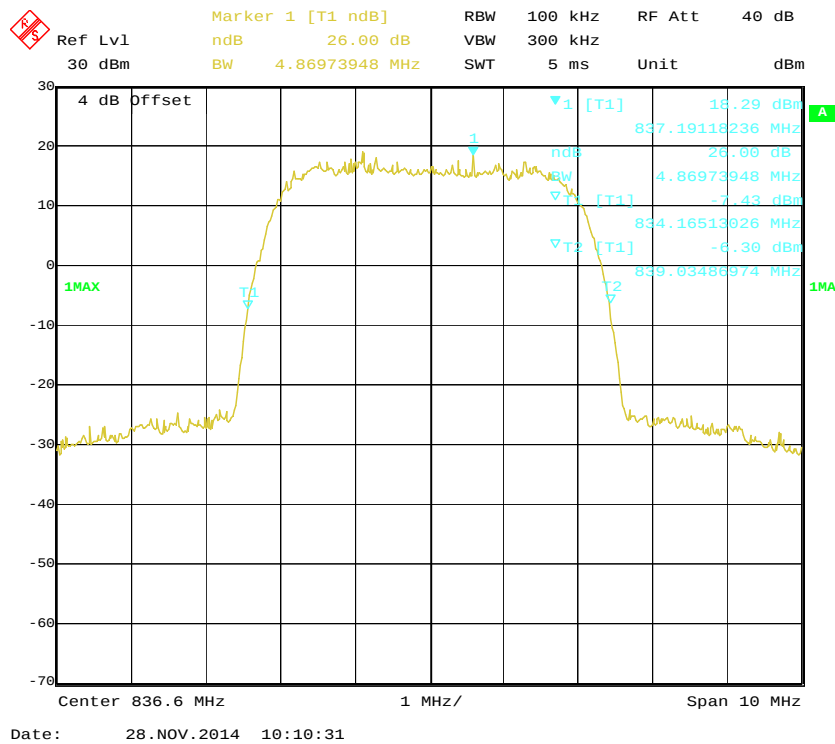


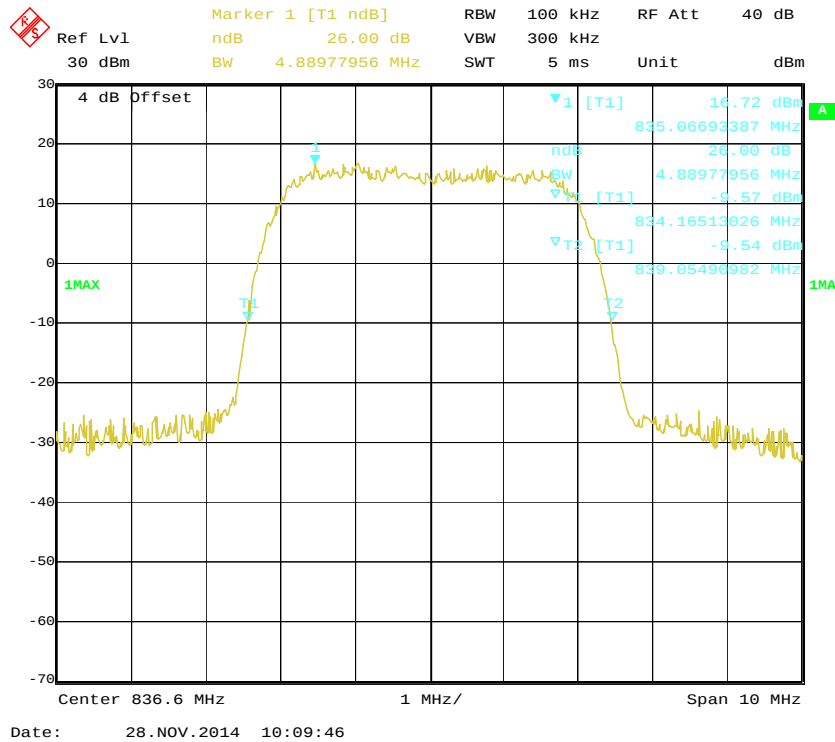
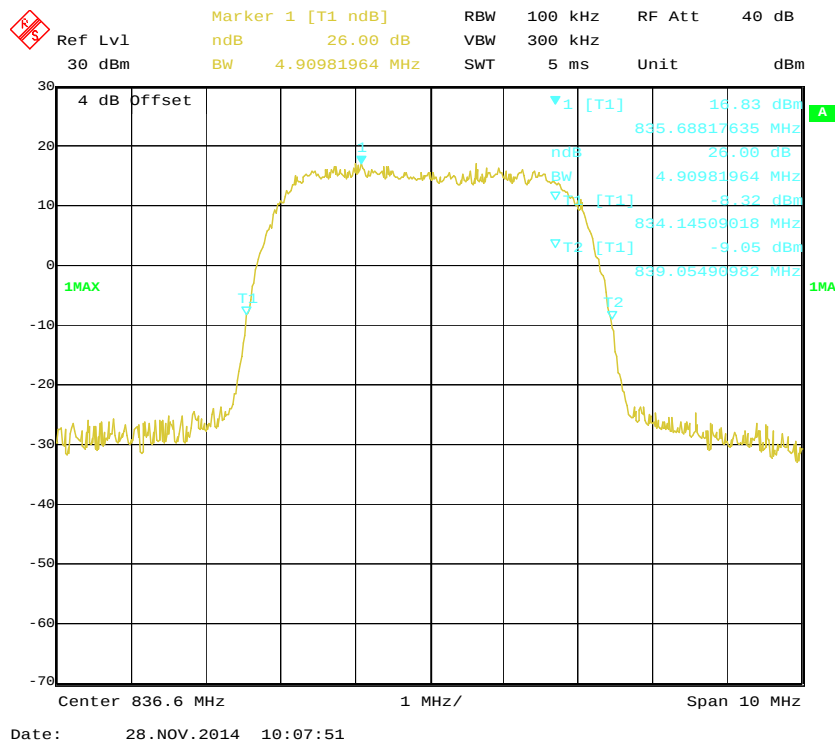
99% Occupied Bandwidth for HSDPA (16QAM) Mode**26 dB Emissions Bandwidth for GSM (GMSK) Mode**

26 dB Emissions Bandwidth for EDGE Mode



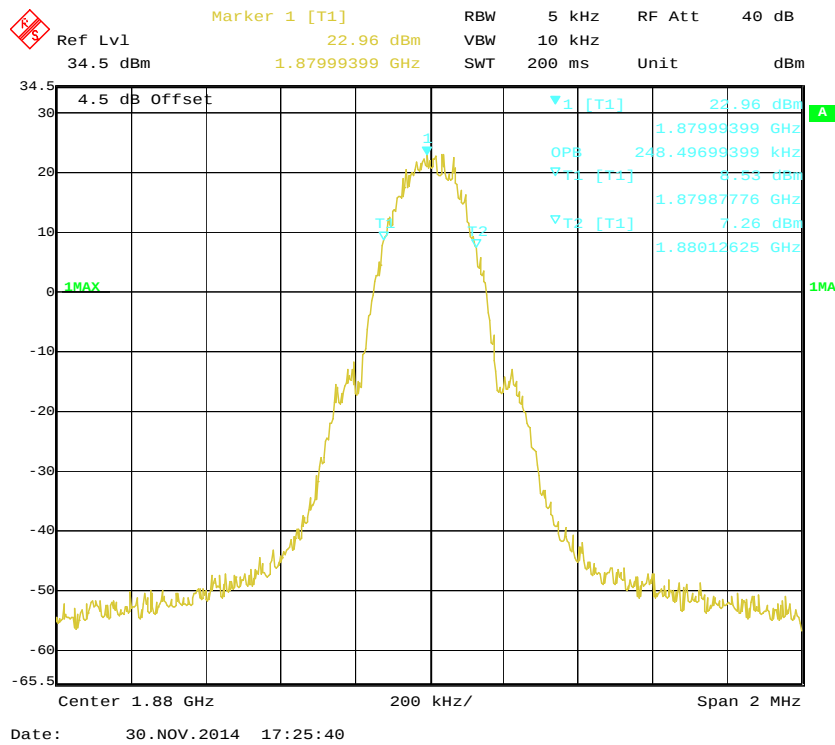
26 dB Emissions Bandwidth for WCDMA (BPSK) Mode



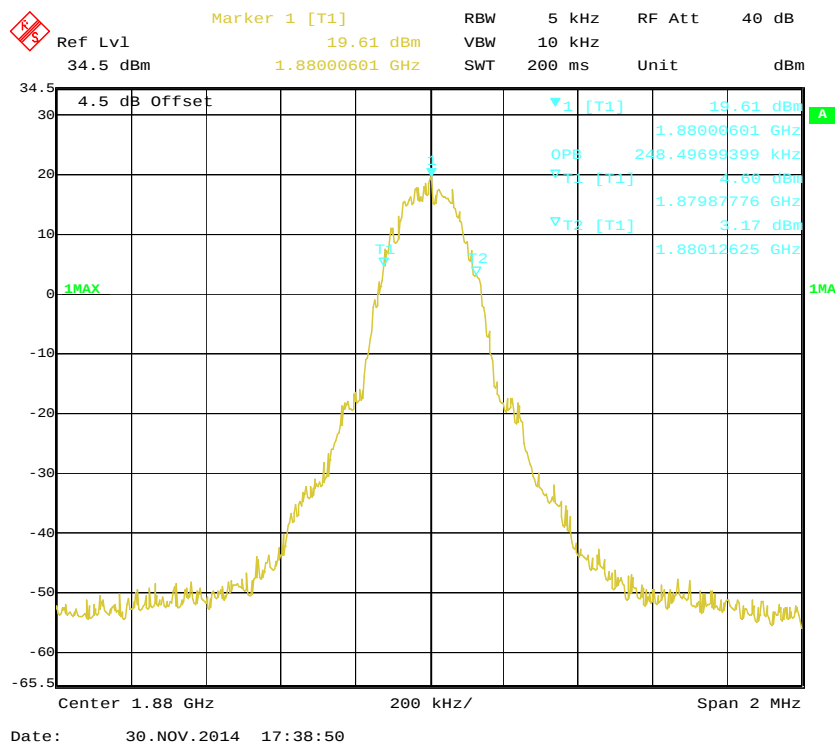
26 dB Emissions Bandwidth for HSUPA (BPSK) Mode**26 dB Emissions Bandwidth for HSDPA (16QAM) Mode**

PCS Band (Part 24E)

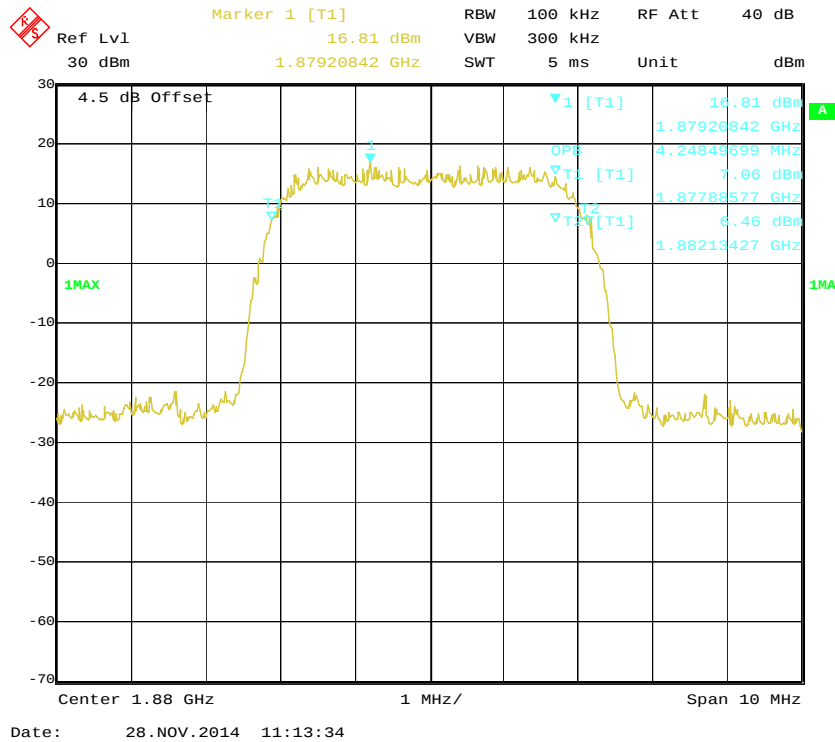
99% Occupied Bandwidth for GSM (GMSK) Mode



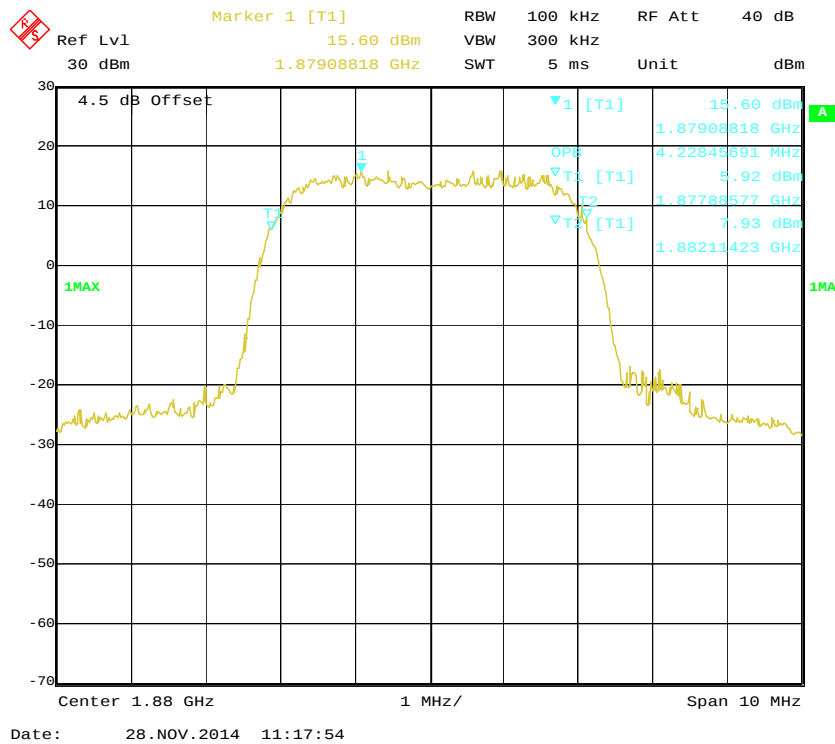
99% Occupied Bandwidth for EDGE Mode

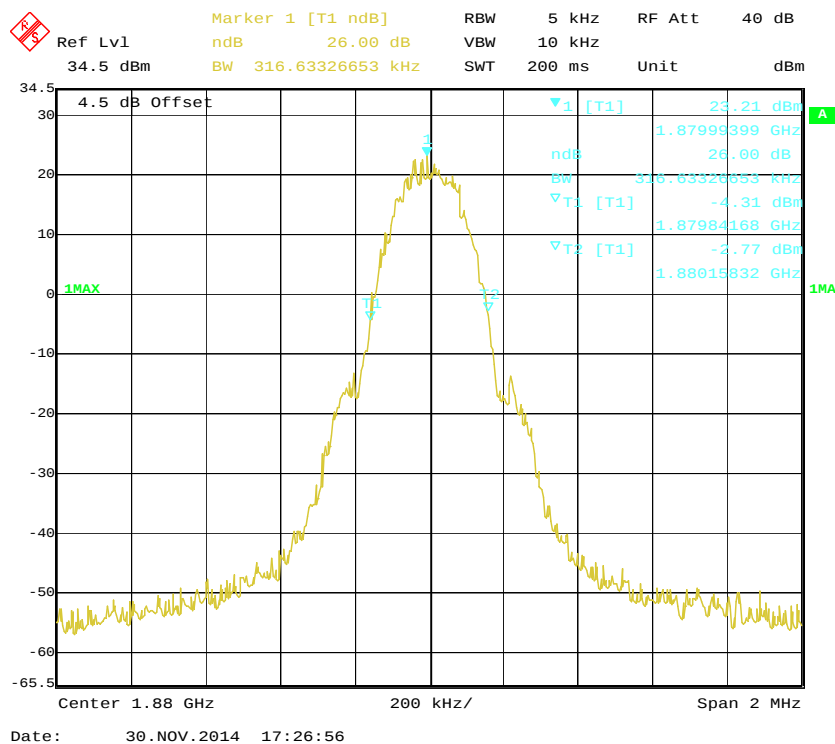
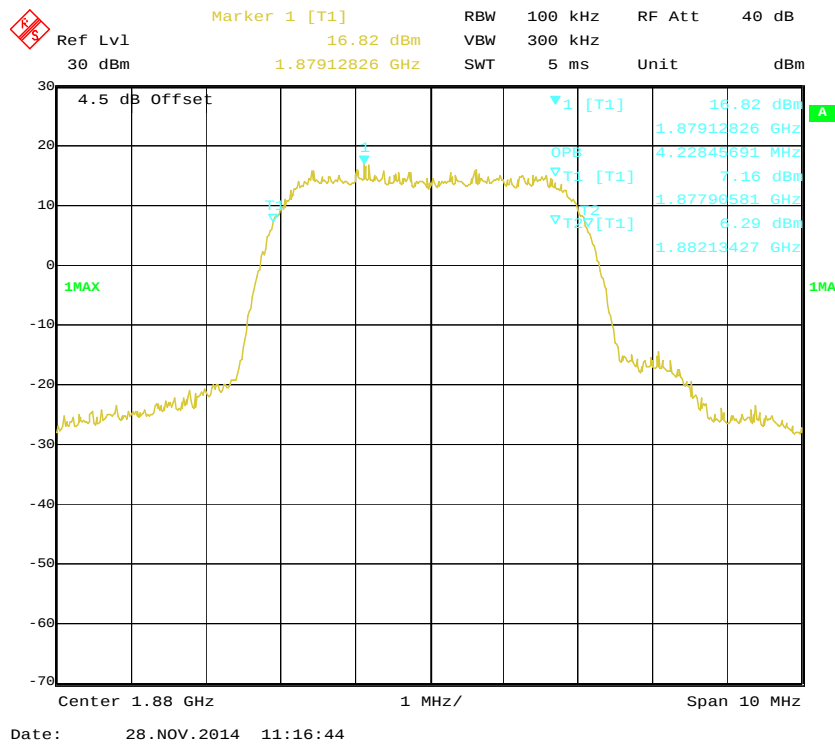


99% Occupied Bandwidth for WCDMA (BPSK) Mode

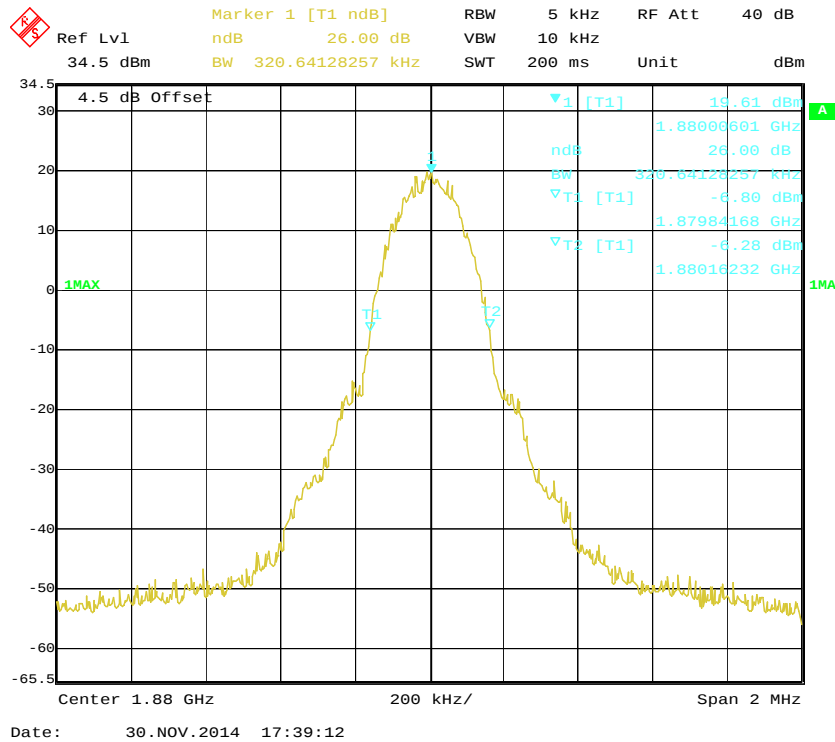


99% Occupied Bandwidth for HSUPA (BPSK) Mode

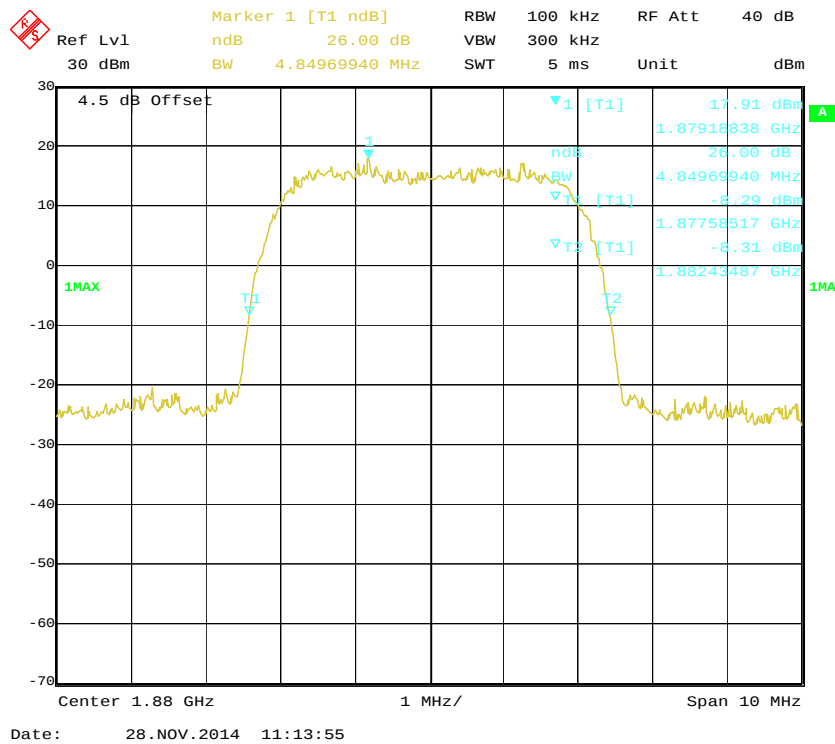




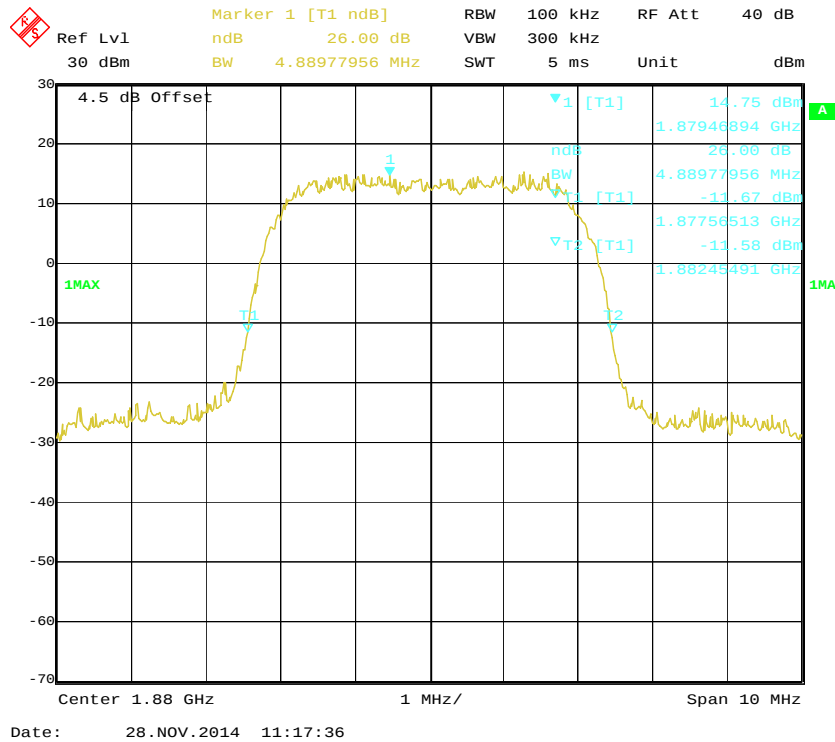
26 dB Emissions Bandwidth for EDGE Mode



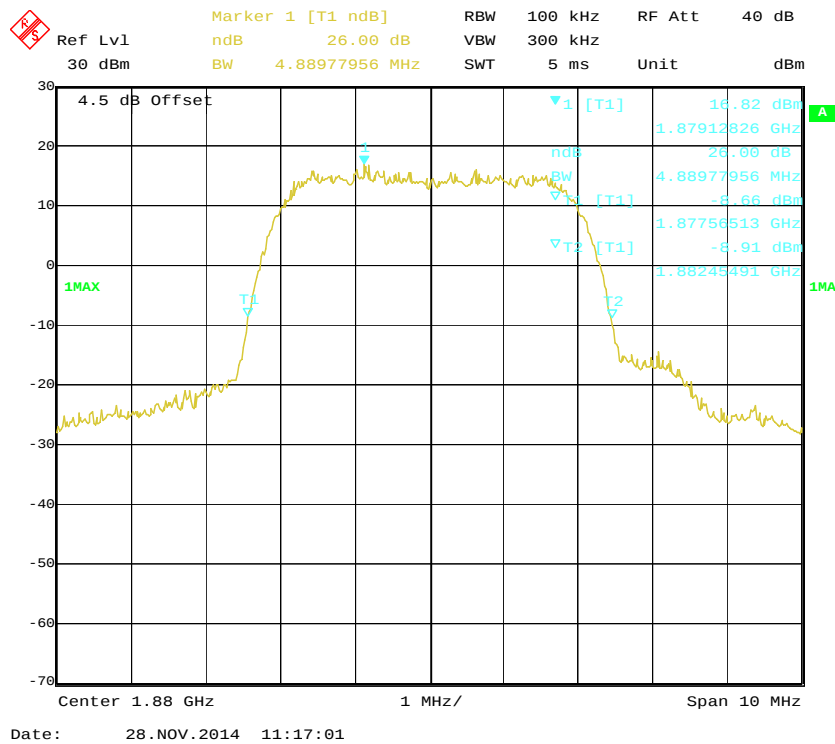
26 dB Emissions Bandwidth for WCDMA (BPSK) Mode



26 dB Emissions Bandwidth for HSUPA (BPSK) Mode



26 dB Emissions Bandwidth for HSDPA (16QAM) Mode



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

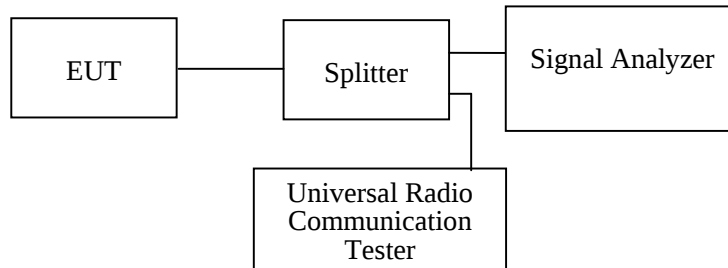
Applicable Standard

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

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. The resolution bandwidth of the spectrum analyzer was set at 1MHz. 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
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891	2014-11-23	2015-11-23

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

Test Data

Environmental Conditions

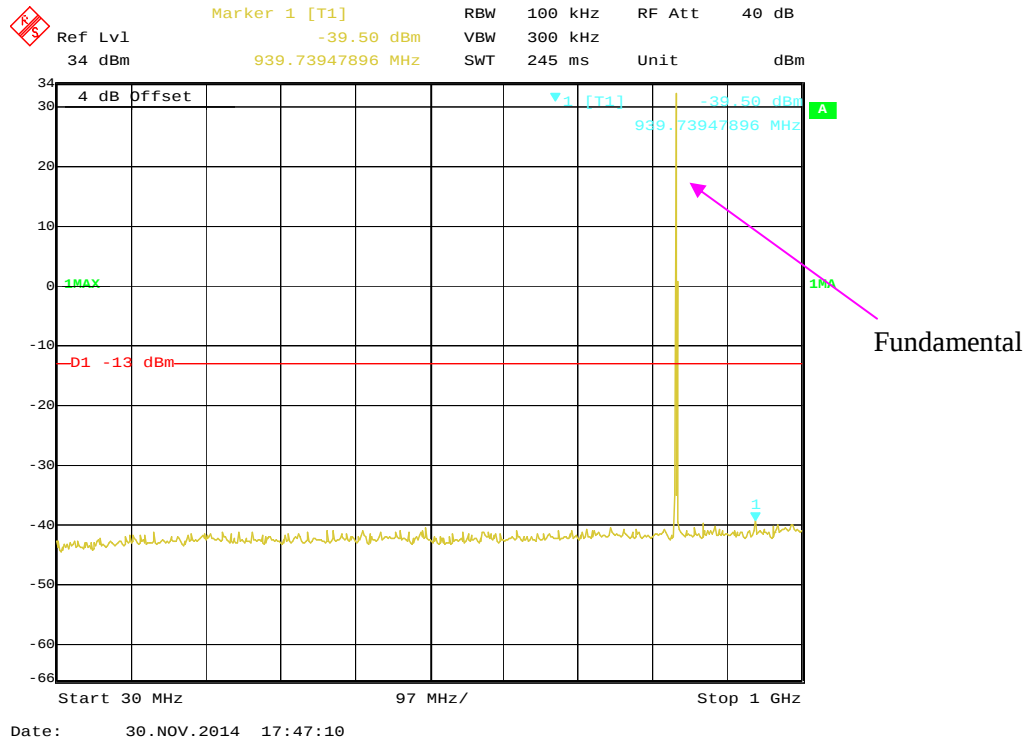
Temperature:	20~25 °C
Relative Humidity:	48~50 %
ATM Pressure:	100.5~101.0 kPa

The testing was performed by William Li on 2014-11-28 and 2014-11-30

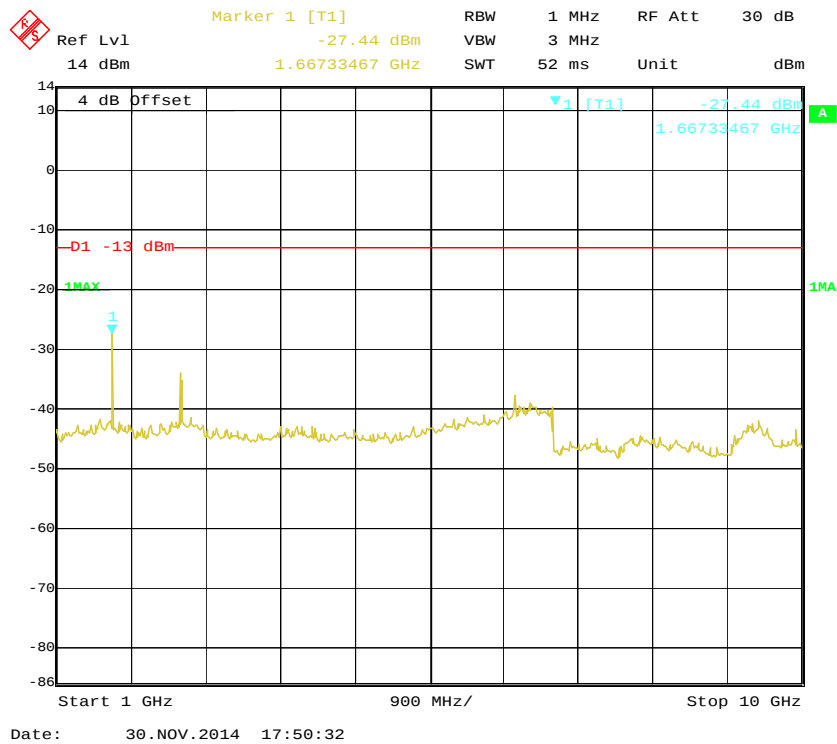
Test result: Compliance, please refer to the following plots. (The Worst Case)

Cellular Band (Part 22H)

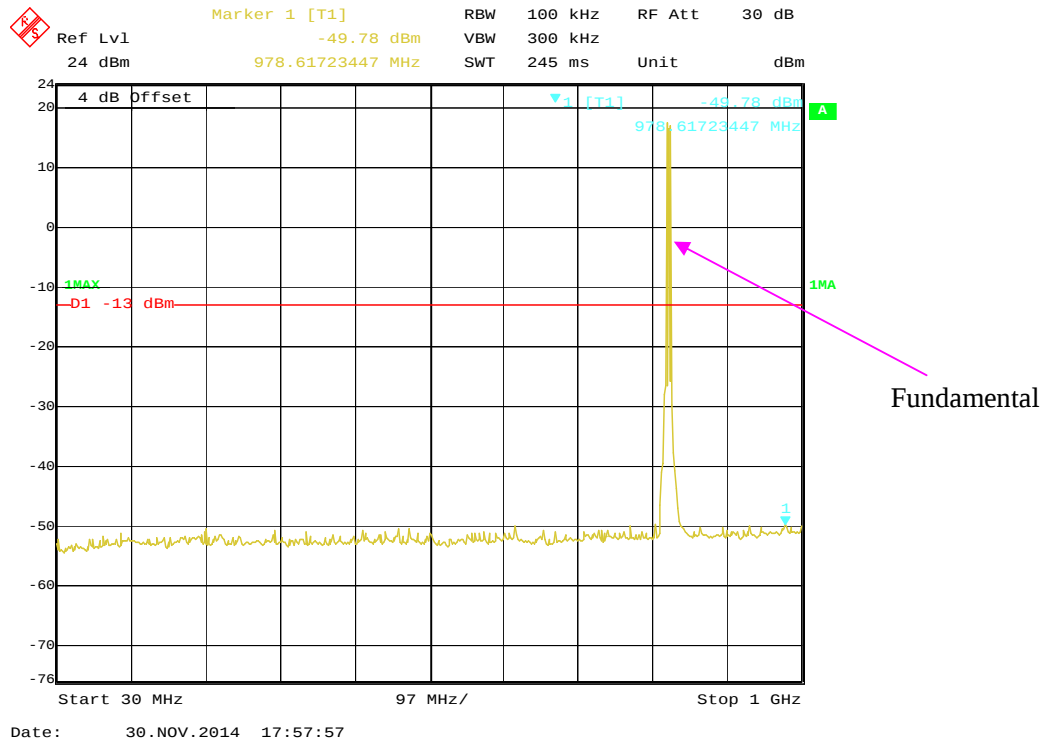
30 MHz – 1 GHz (GSM Mode)



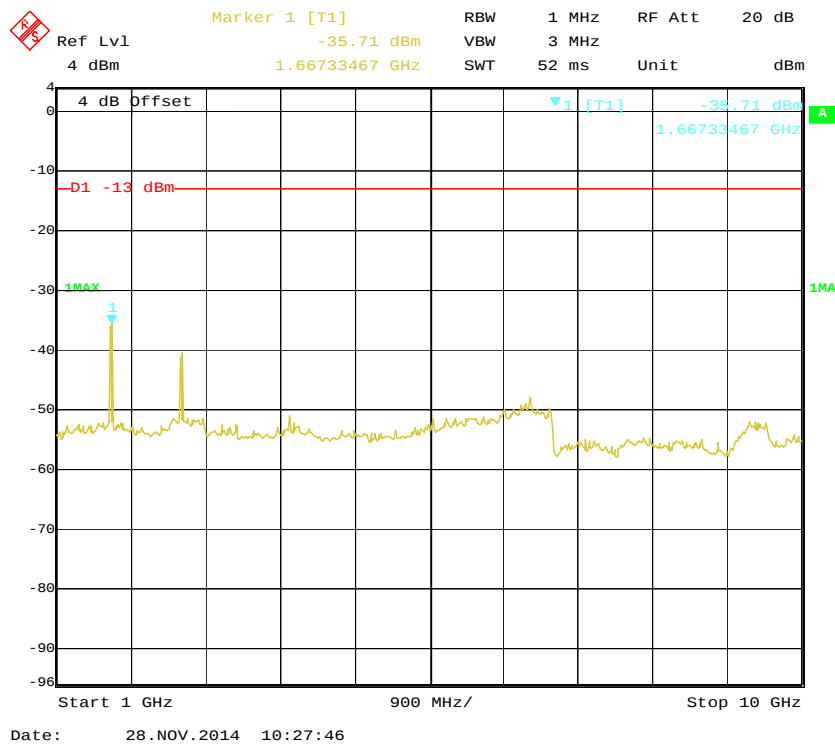
1 GHz – 10 GHz (GSM Mode)



30 MHz – 1 GHz (WCDMA Mode)

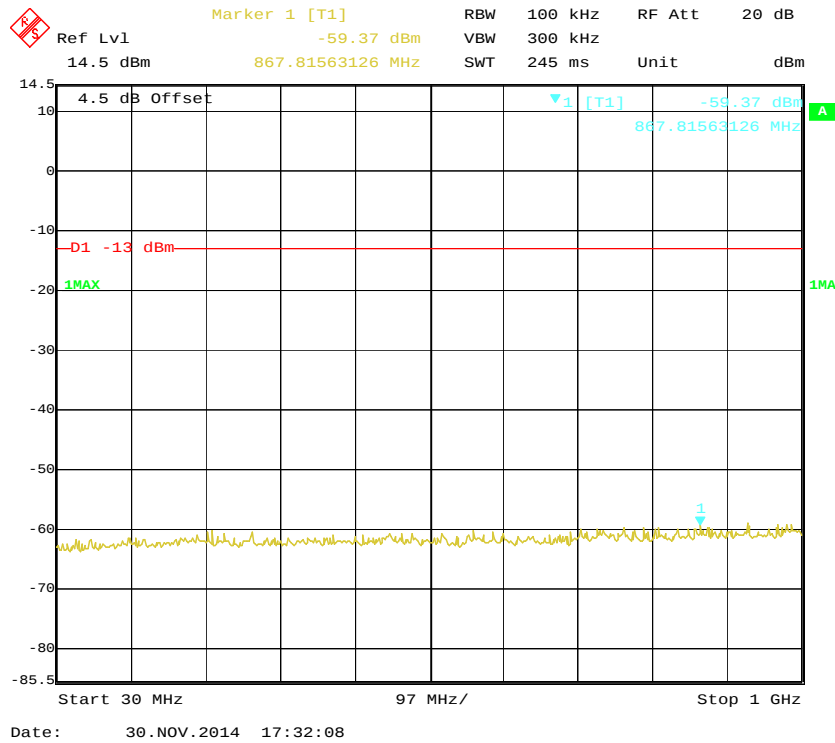


1 GHz – 10 GHz (WCDMA Mode)

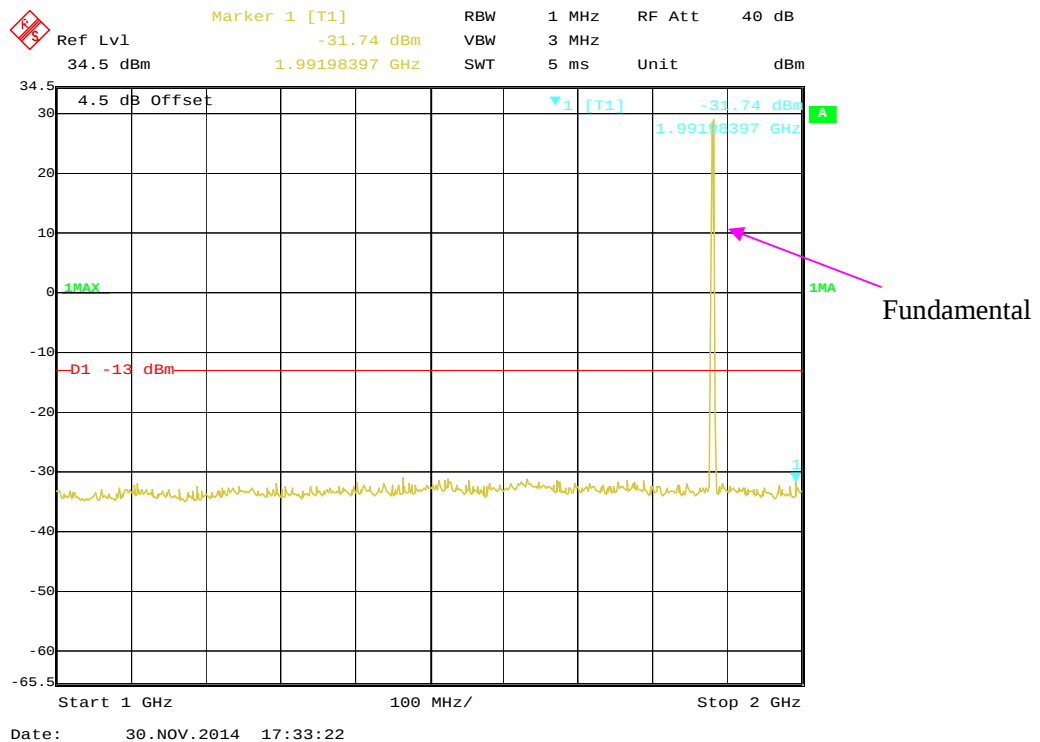


PCS Band (Part 24E)

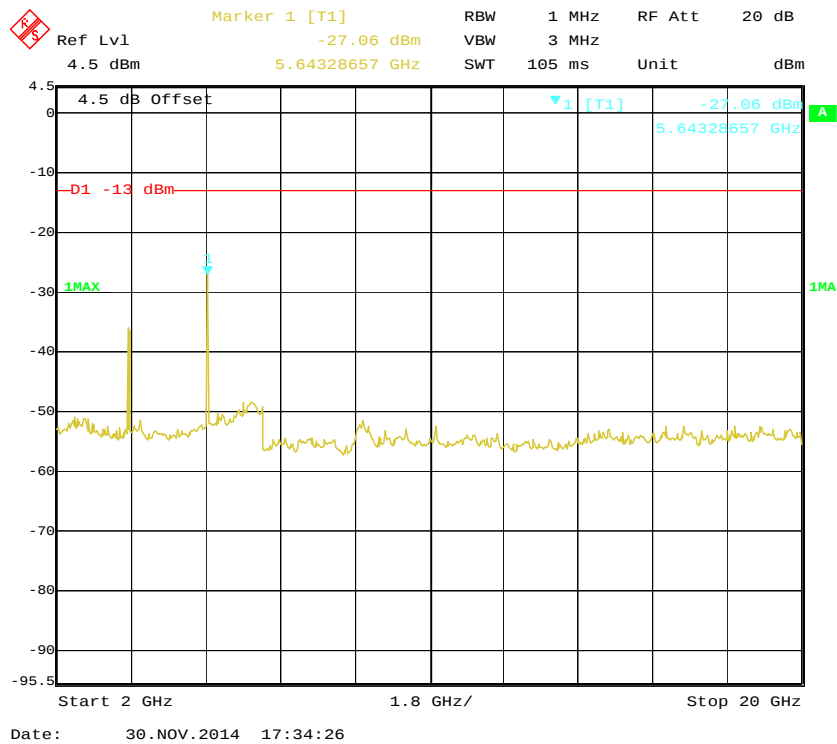
30 MHz – 1 GHz (GSM Mode)



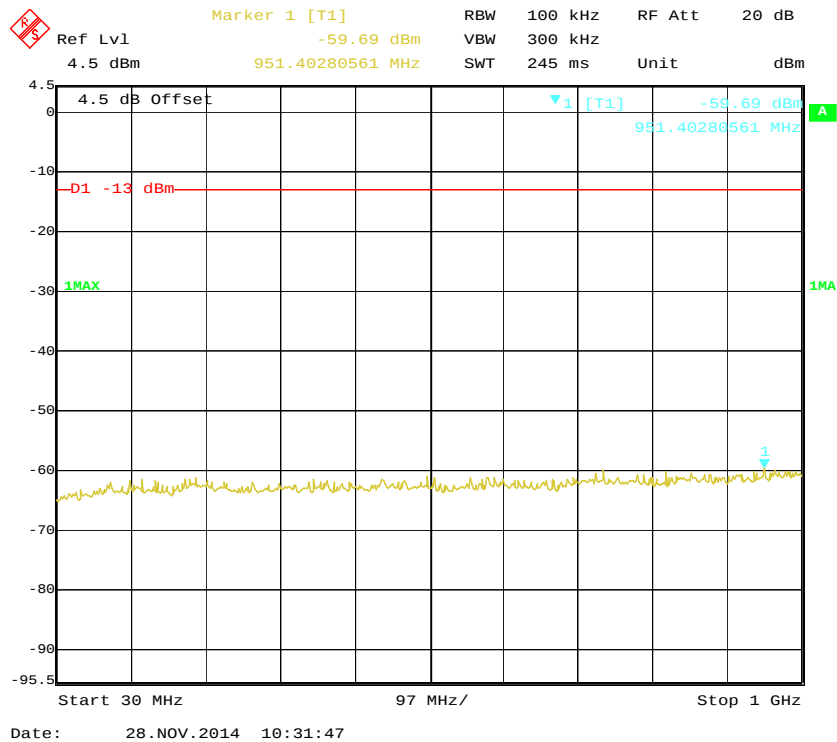
1 GHz – 2 GHz (GSM Mode)



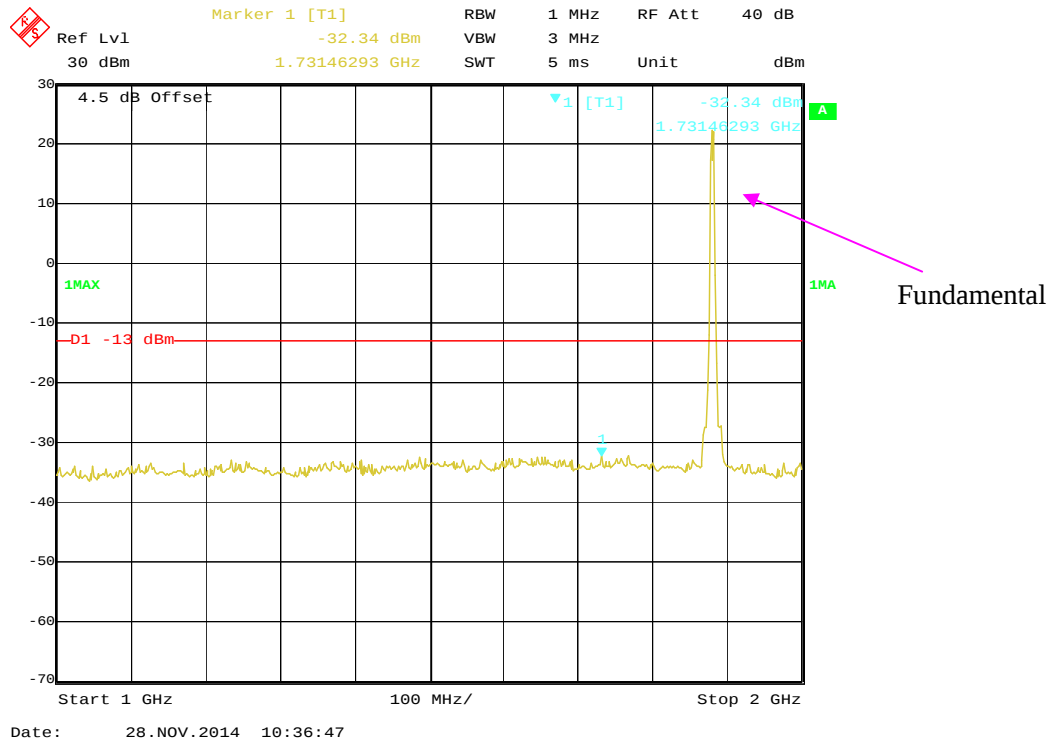
2 GHz – 20 GHz (GSM Mode)



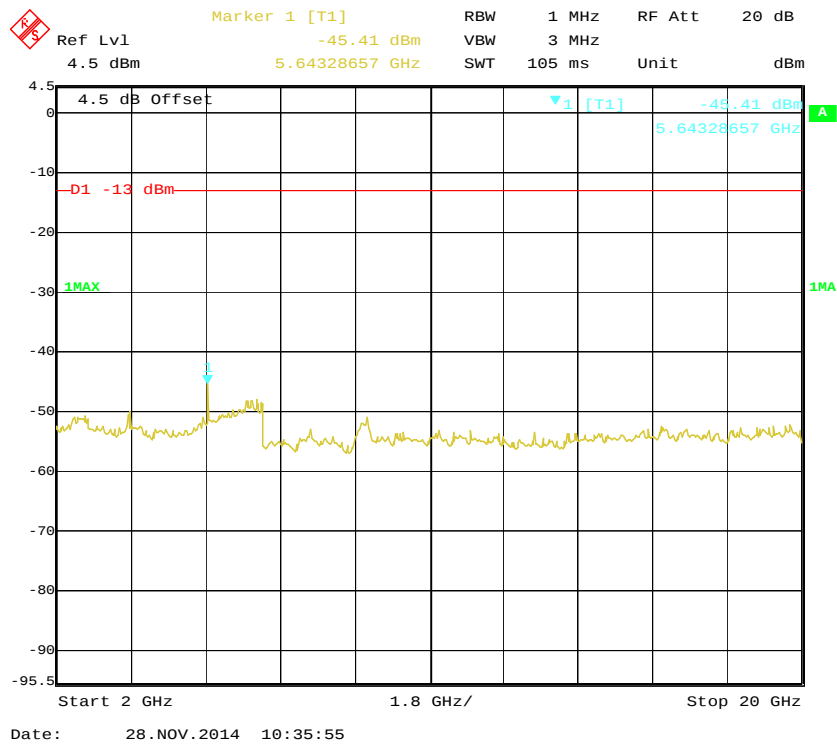
30 MHz – 1 GHz (WCDMA Mode)



1 GHz – 2 GHz (WCDMA Mode)



2 GHz – 20 GHz (WCDMA Mode)



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

Applicable Standard

FCC § 2.1053, §22.917 and § 24.238.

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 receiving 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
Sunol Sciences	Horn Antenna	DRH-118	A052304	2014-12-01	2015-11-30
Sunol Sciences	Broadband Antenna	JB3	A111513	2014-6-18	2017-6-17
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2014-09-25	2015-09-25
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2014-04-23	2015-04-23
HP	Amplifier	8447E	1937A01046	2014-05-06	2015-05-06
HP	Signal Generator	8341B	2624A00116	2014-06-03	2015-06-03
COM POWER	Dipole Antenna	AD-100	041000	NCR	NCR
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2015-02-10
Electro-Mechanics	Horn Antenna	3116	9510-2270	2013-10-14	2016-10-13
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891	2014-11-23	2015-11-23

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

Test Data**Environmental Conditions**

Temperature:	20 °C
Relative Humidity:	58 %
ATM Pressure:	101.0 kPa

The testing was performed by William Li on 2014-12-03

EUT operation mode: Transmitting (The Worst Case)

30 MHz ~ 10 GHz:

Cellular Band (Part 22H)

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	FCC Part 22H	
			Height (m)	Polar (H/V)	SG Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)		Limit (dBm)	Margin (dB)
GSM Mode, High channel										
149.15	34.53	128	2.2	H	-62.5	0.26	0	-62.76	-13	49.76
149.15	35.78	339	1.5	V	-61.2	0.26	0	-61.46	-13	48.46
1697.60	54.33	100	2.5	H	-48.7	0.97	9.40	-40.27	-13	27.27
1697.60	51.81	3	1.2	V	-48.6	0.97	9.40	-40.17	-13	27.17
2546.40	45.54	28	1.7	H	-55.2	1.46	10.70	-45.96	-13	32.96
2546.40	42.78	154	1.7	V	-53.6	1.46	10.70	-44.36	-13	31.36
WCDMA Mode, High channel										
149.15	36.17	95	1.1	H	-60.8	0.26	0	-61.06	-13	48.06
149.15	37.05	307	1.4	V	-59.9	0.26	0	-60.16	-13	47.16
2539.80	43.35	87	1.3	H	-57.4	1.46	10.70	-48.16	-13	35.16
2539.80	43.22	166	1.8	V	-53.1	1.46	10.70	-43.86	-13	30.86

30 MHz ~ 20 GHz:

PCS Band (Part 24E)

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	FCC Part 24E	
			Height (m)	Polar (H/V)	SG Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)		Limit (dBm)	Margin (dB)
GSM Mode, Low channel										
149.15	35.56	9	2.0	H	-61.4	0.26	0	-61.66	-13	48.66
149.15	36.22	170	2.0	V	-60.8	0.26	0	-61.06	-13	48.06
3700.4	40.51	227	2.1	H	-47.4	2.96	10.40	-39.96	-13	26.96
3700.4	37.60	26	2.0	V	-49.7	2.96	10.40	-42.26	-13	29.26
5550.6	44.70	269	1.5	H	-48.0	3.94	11.70	-40.24	-13	27.24
5550.6	48.86	51	1.3	V	-41.2	3.94	11.70	-33.44	-13	20.44
WCDMA Mode, High channel										
149.15	35.91	100	2.4	H	-61.1	0.26	0	-61.36	-13	48.36
149.15	34.76	175	2.0	V	-62.2	0.26	0	-62.46	-13	49.46
3815.20	39.02	237	2.1	H	-48.9	2.96	10.40	-41.46	-13	28.46
3815.20	38.52	88	1.4	V	-48.8	2.96	10.40	-41.36	-13	28.36

Note:

1) Absolute Level = SG Level - Cable loss + Antenna Gain

2) Margin = Limit- Absolute Level

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

Applicable Standard

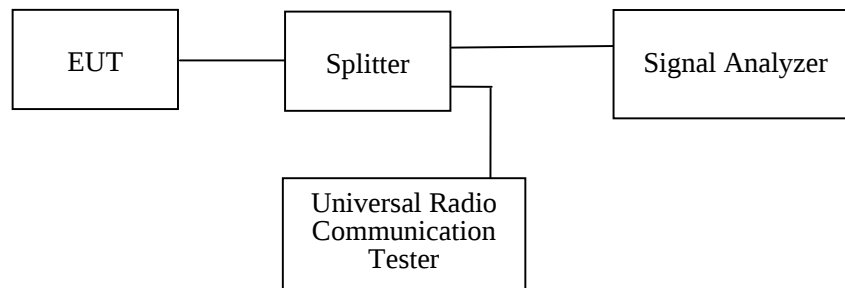
According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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	Signal Analyzer	FSIQ26	837405/023	2014-08-22	2015-08-22
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891	2014-11-23	2015-11-23

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

Test Data

Environmental Conditions

Temperature:	20~25 °C
Relative Humidity:	48~50 %
ATM Pressure:	100.5~101.0 kPa

The testing was performed by William Li on 2014-11-28 and 2014-11-30

EUT operation mode: Transmitting

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

Cellular Band (Part 22H)

Mode	Band Edge	Emission (dBm)	Limit (dBm)
GSM (GMSK)	Left Band	-15.99	-13
	Right Band	-15.20	-13

Mode	Band Edge	Emission (dBm)	Limit (dBm)
EDGE(8PSK)	Left Band	-22.96	-13
	Right Band	-23.02	-13

Mode	Band Edge	Emission (dBm)	Limit (dBm)
WCDMA (BPSK)	Left Band	-14.13	-13
	Right Band	-14.54	-13

Mode	Band Edge	Emission (dBm)	Limit (dBm)
HSDPA (16QAM)	Left Band	-13.90	-13
	Right Band	-15.01	-13

Mode	Band Edge	Emission (dBm)	Limit (dBm)
HSUPA (BPSK)	Left Band	-14.96	-13
	Right Band	-13.79	-13

PCS Band (Part 24E)

Mode	Band Edge	Emission (dBm)	Limit (dBm)
GSM(GMSK)	Left Band	-17.47	-13
	Right Band	-16.02	-13

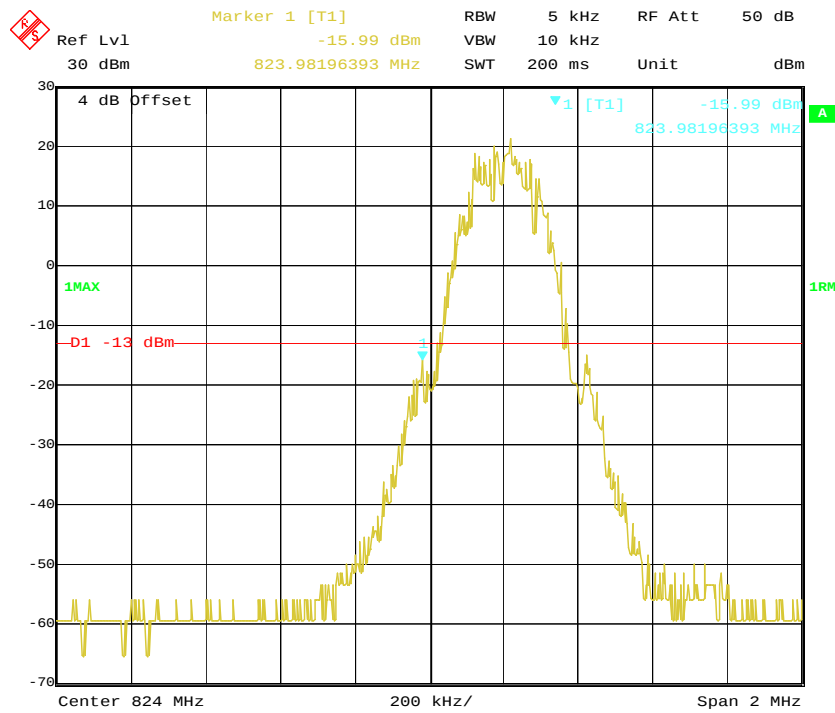
Mode	Band Edge	Emission (dBm)	Limit (dBm)
EDGE(8PSK)	Left Band	-19.81	-13
	Right Band	-23.11	-13

Mode	Band Edge	Emission (dBm)	Limit (dBm)
WCDMA (BPSK)	Left Band	-13.99	-13
	Right Band	-14.15	-13

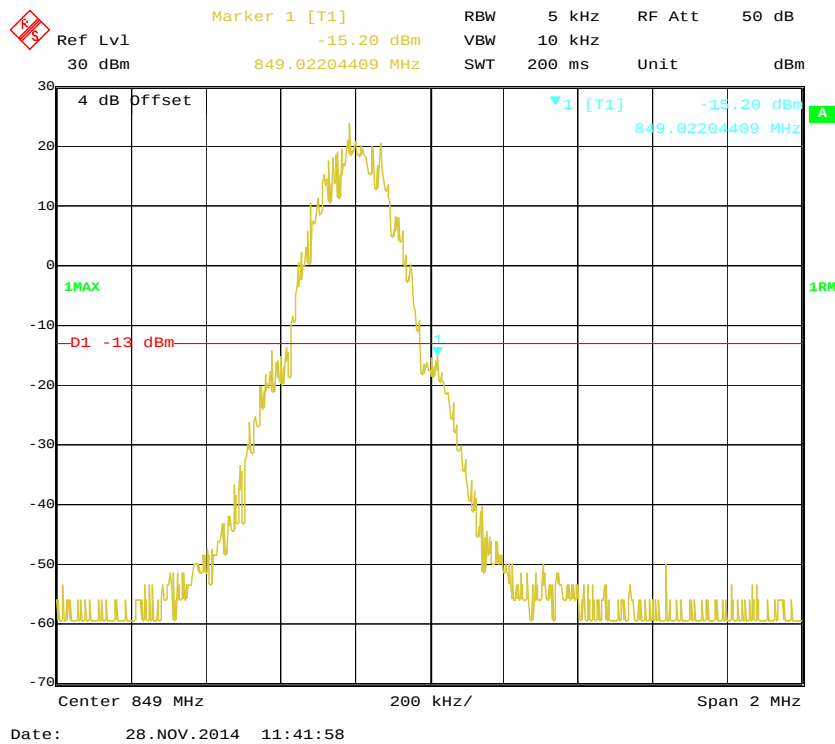
Mode	Band Edge	Emission (dBm)	Limit (dBm)
HSDPA (16QAM)	Left Band	-13.95	-13
	Right Band	-13.57	-13

Mode	Band Edge	Emission (dBm)	Limit (dBm)
HSUPA (BPSK)	Left Band	-14.94	-13
	Right Band	-14.15	-13

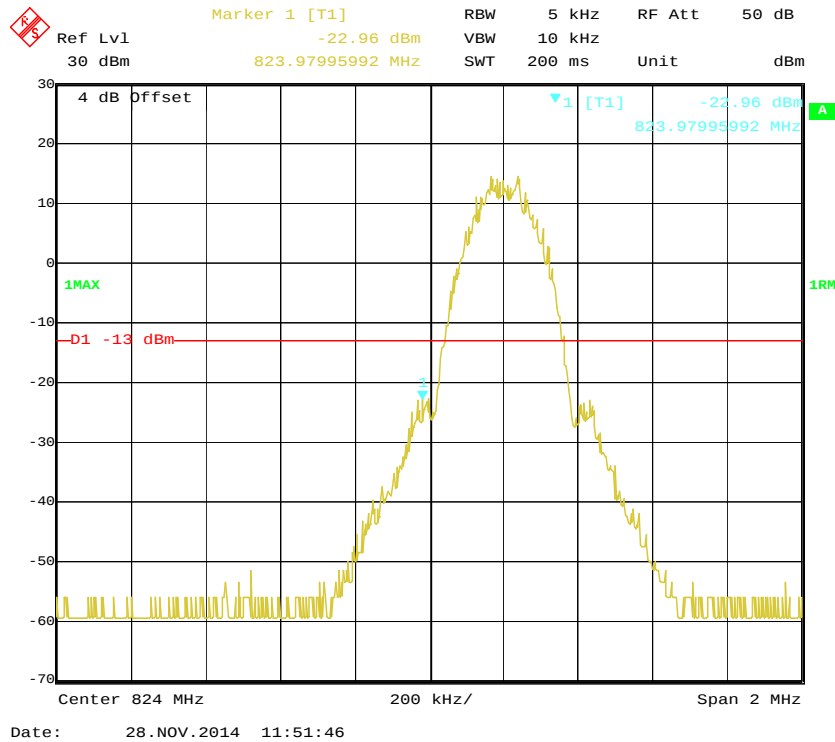
Cellular Band, Left Band Edge for GSM (GMSK) Mode



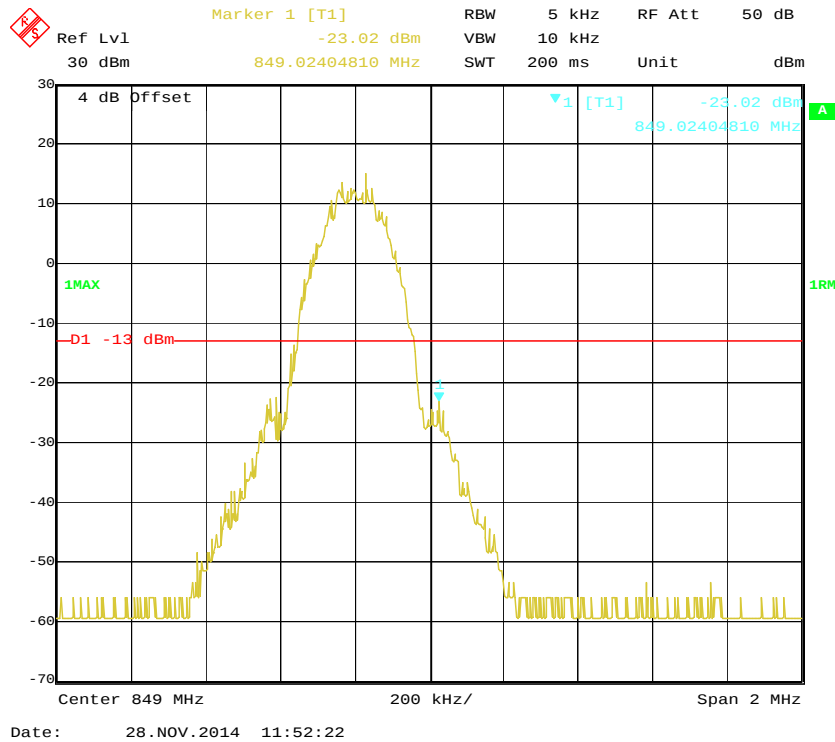
Cellular Band, Right Band Edge for GSM (GMSK) Mode



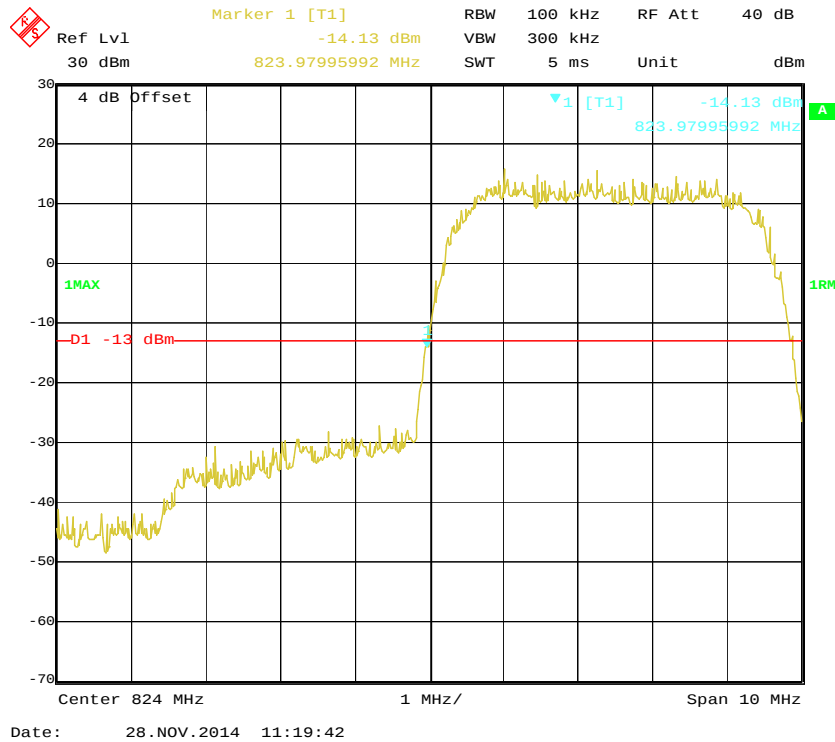
Cellular Band, Left Band Edge for EDGE Mode



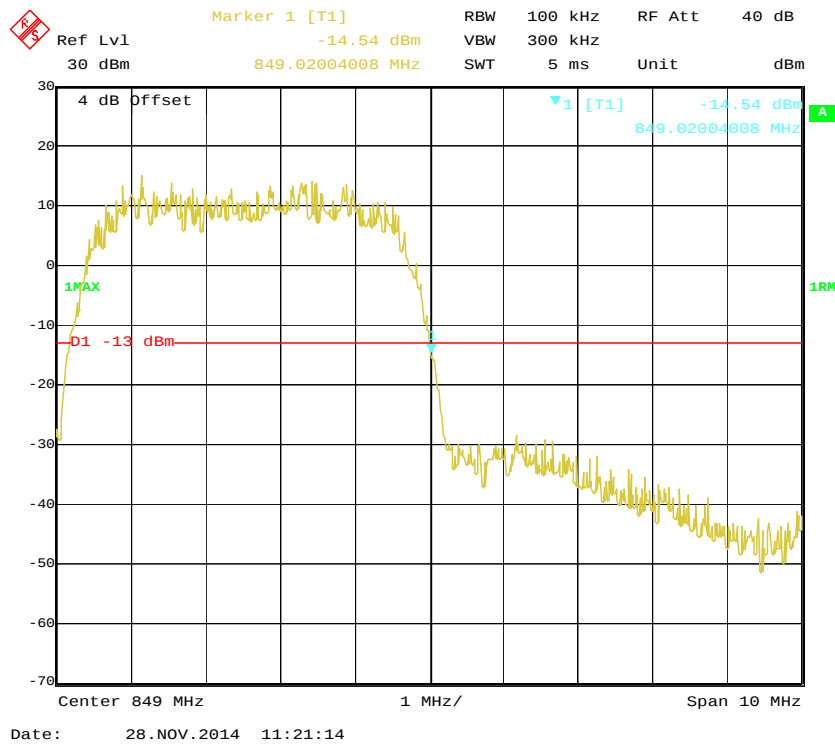
Cellular Band, Right Band Edge for EDGE Mode

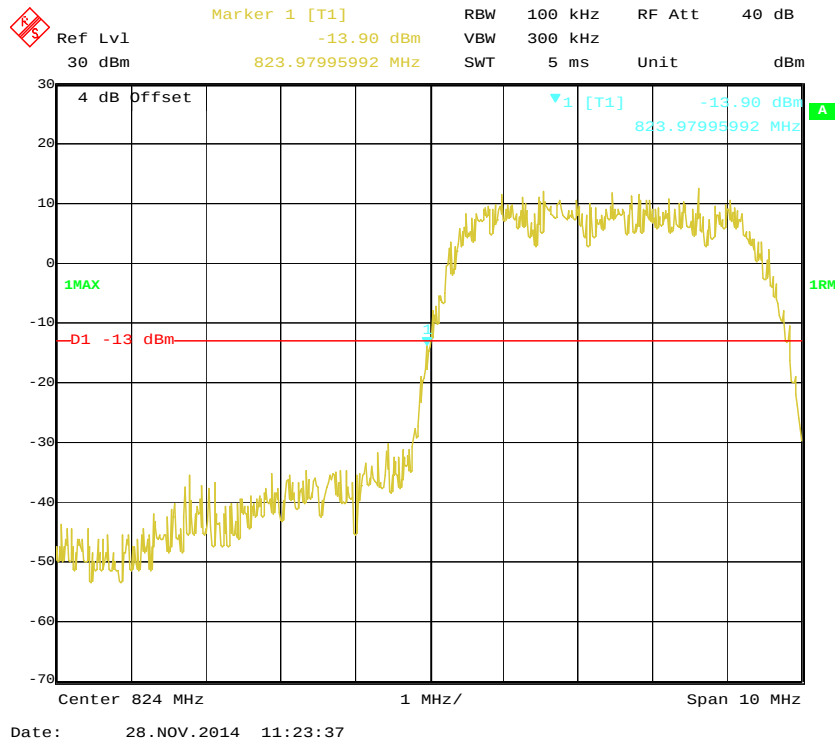
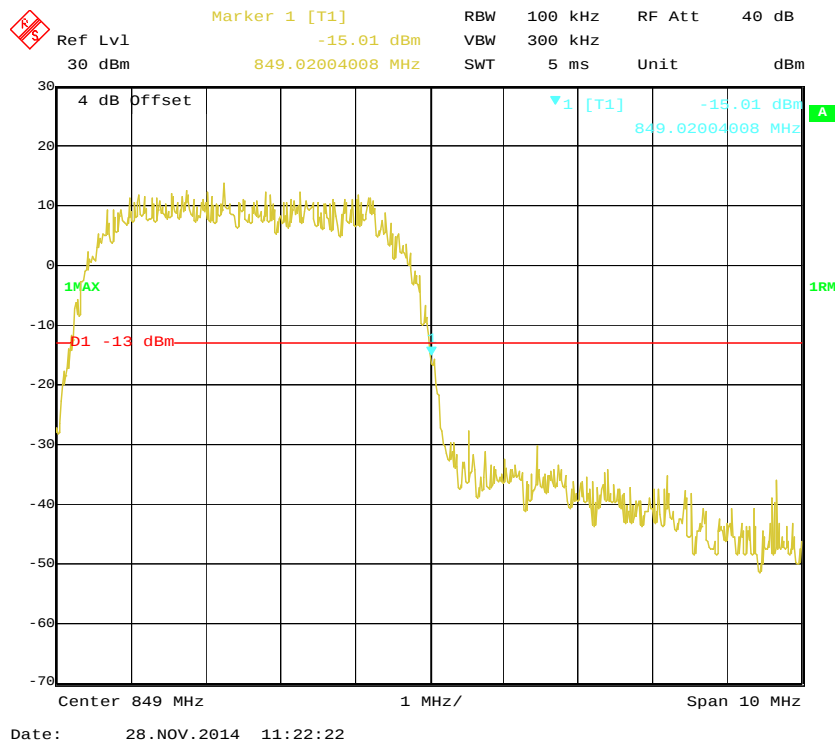


Cellular Band, Left Band Edge for WCDMA (BPSK) Mode

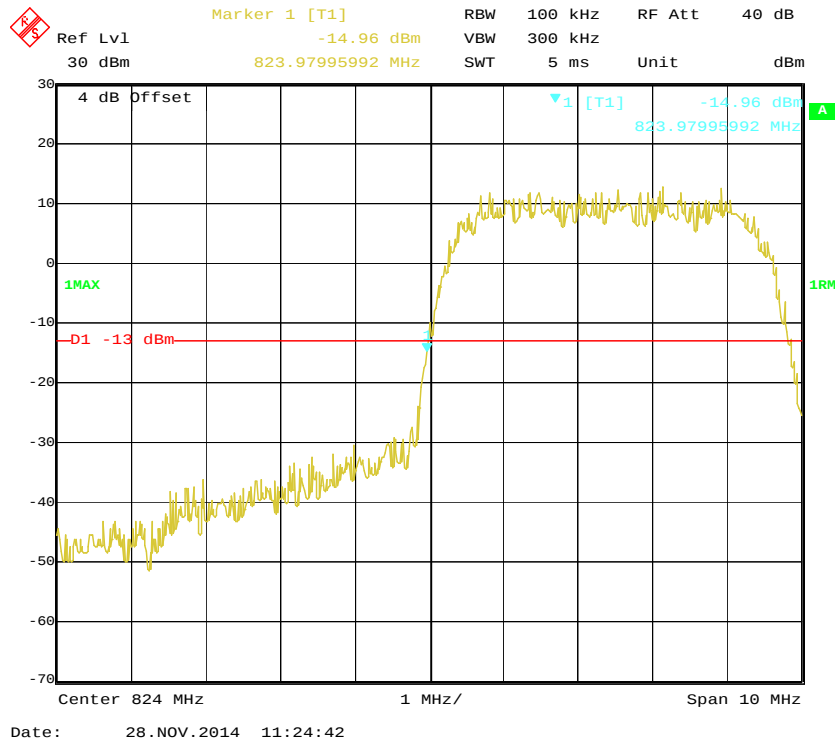


Cellular Band, Right Band Edge for WCDMA (BPSK) Mode

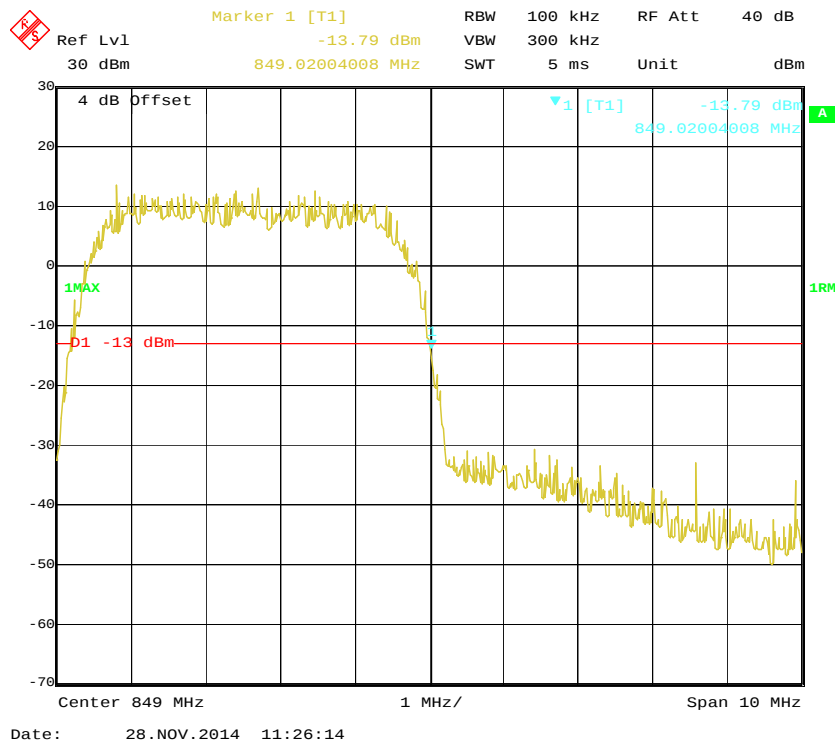


Cellular Band, Left Band Edge for HSDPA (16QAM) Mode**Cellular Band, Right Band Edge for HSDPA (16QAM) Mode**

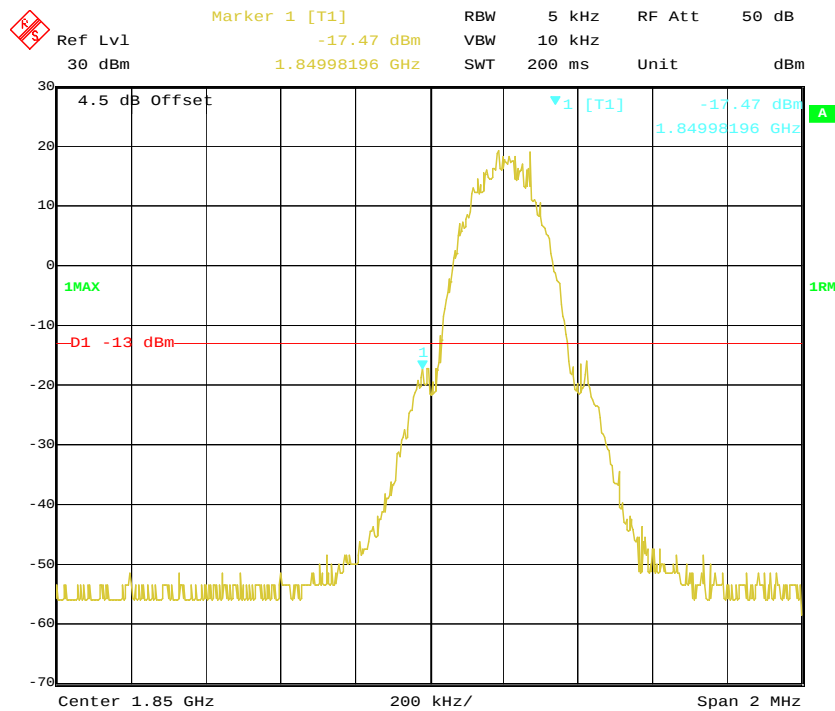
Cellular Band, Left Band Edge for HSUPA (BPSK) Mode



Cellular Band, Right Band Edge for HSUPA (BPSK) Mode

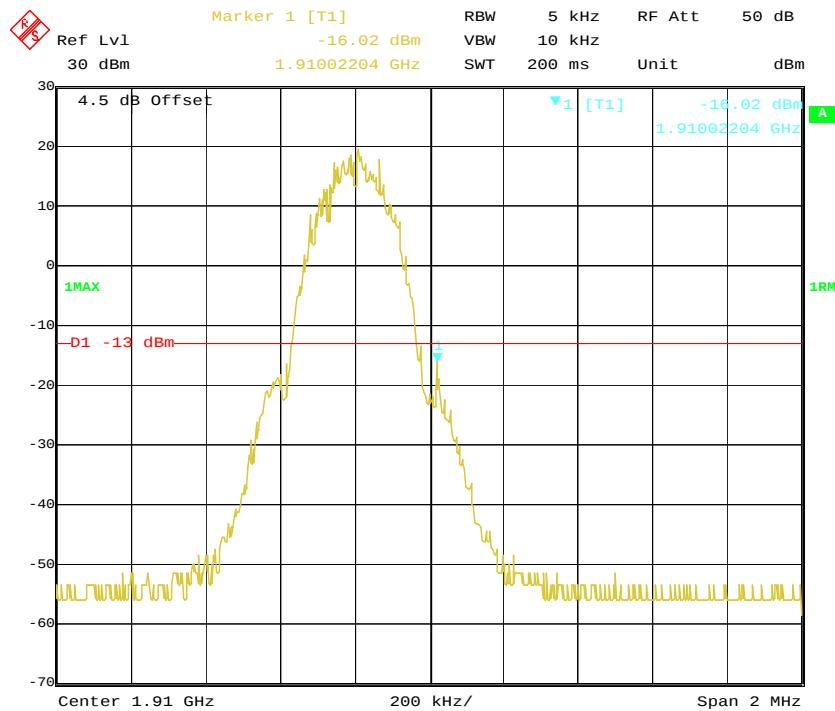


PCS Band, Left Band Edge for GSM (GMSK) Mode



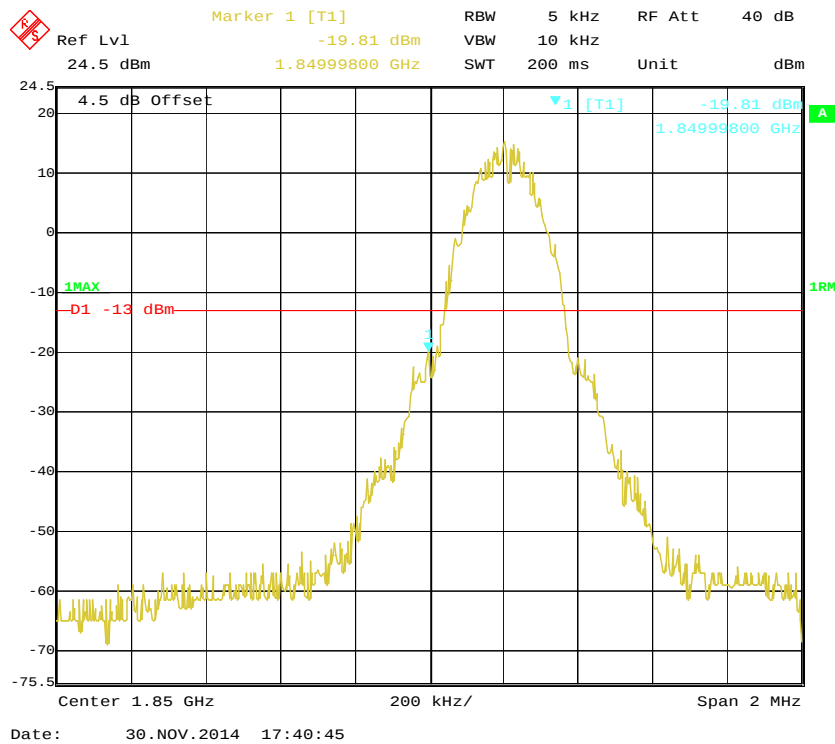
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PCS Band, Right Band Edge for GSM (GMSK) Mode

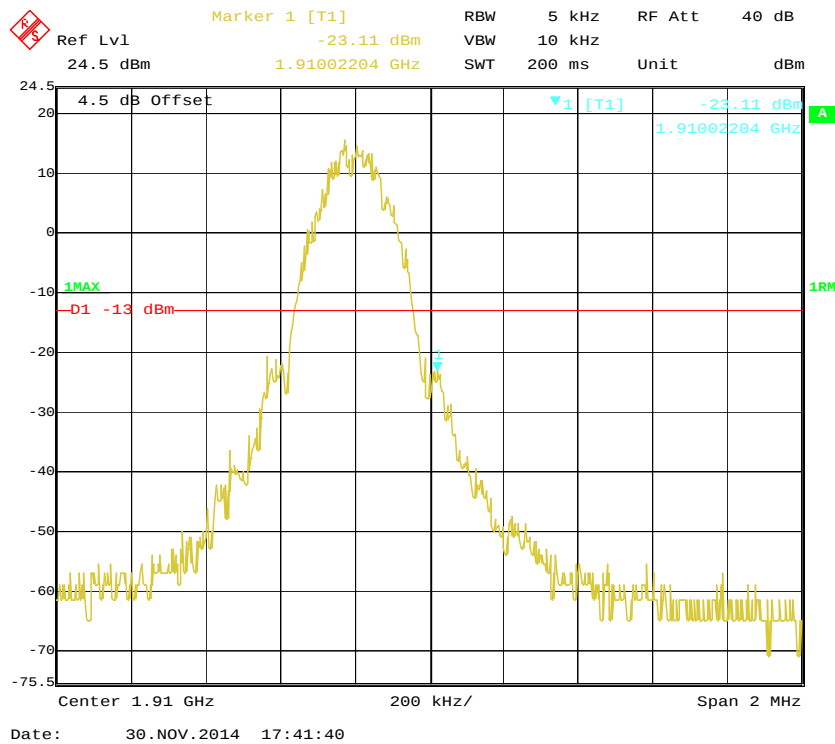


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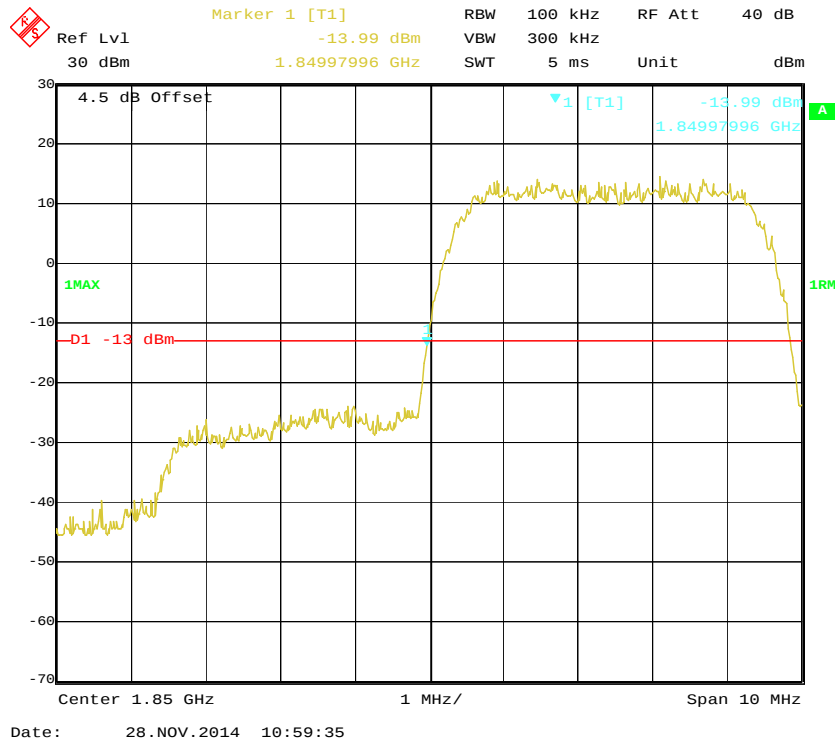
PCS Band, Left Band Edge for EDGE Mode



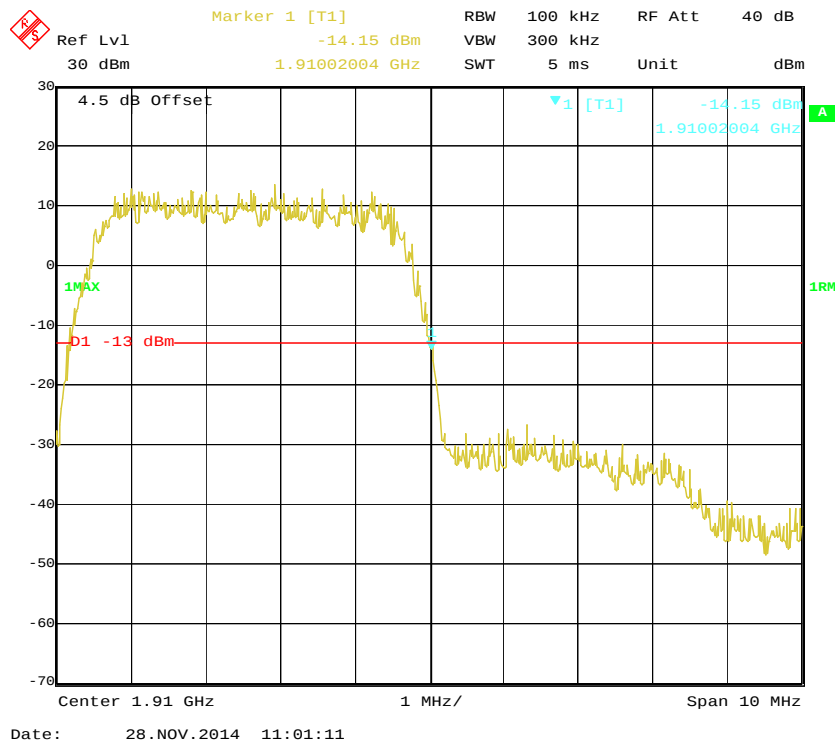
PCS Band, Right Band Edge for EDGE Mode



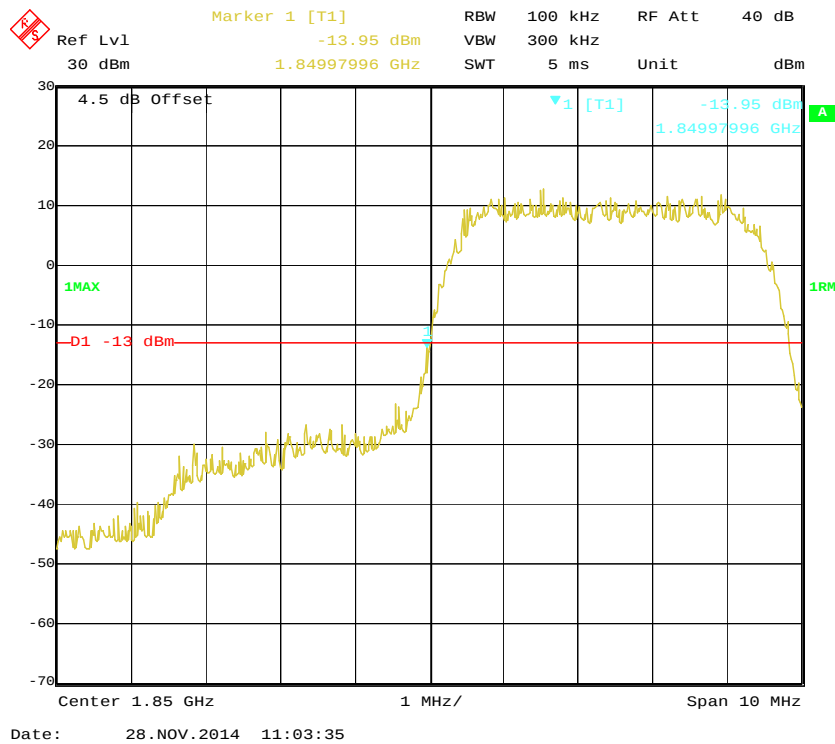
PCS Band, Left Band Edge for WCDMA (BPSK) Mode



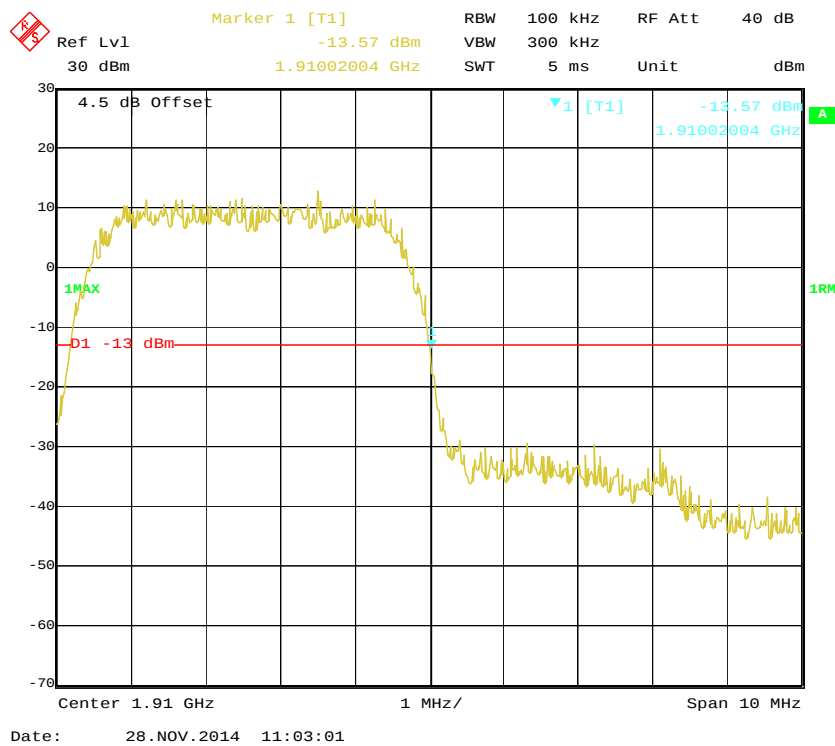
PCS Band, Right Band Edge for WCDMA (BPSK) Mode



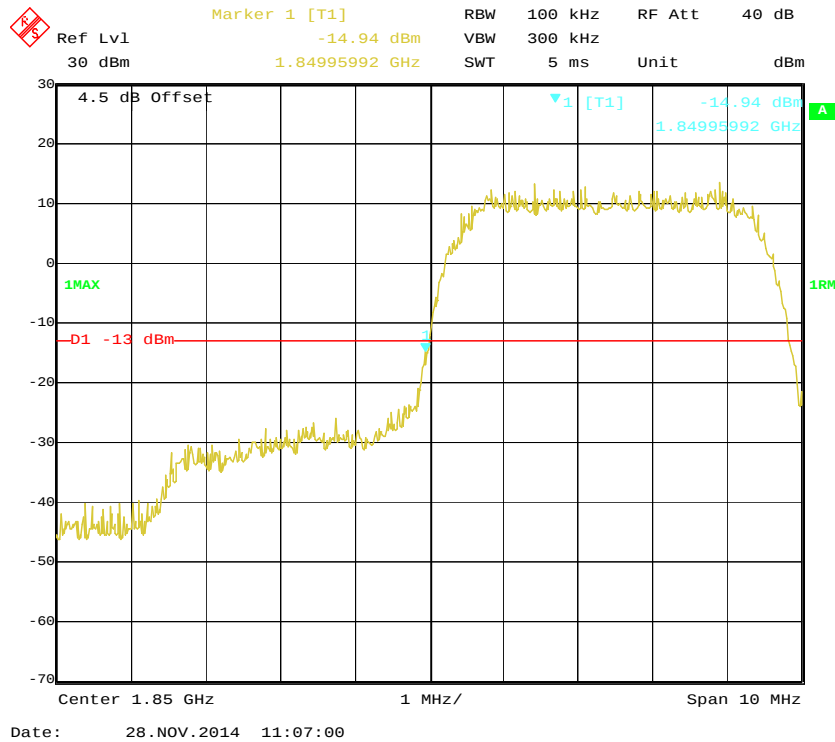
PCS Band, Left Band Edge for HSDPA (16QAM) Mode



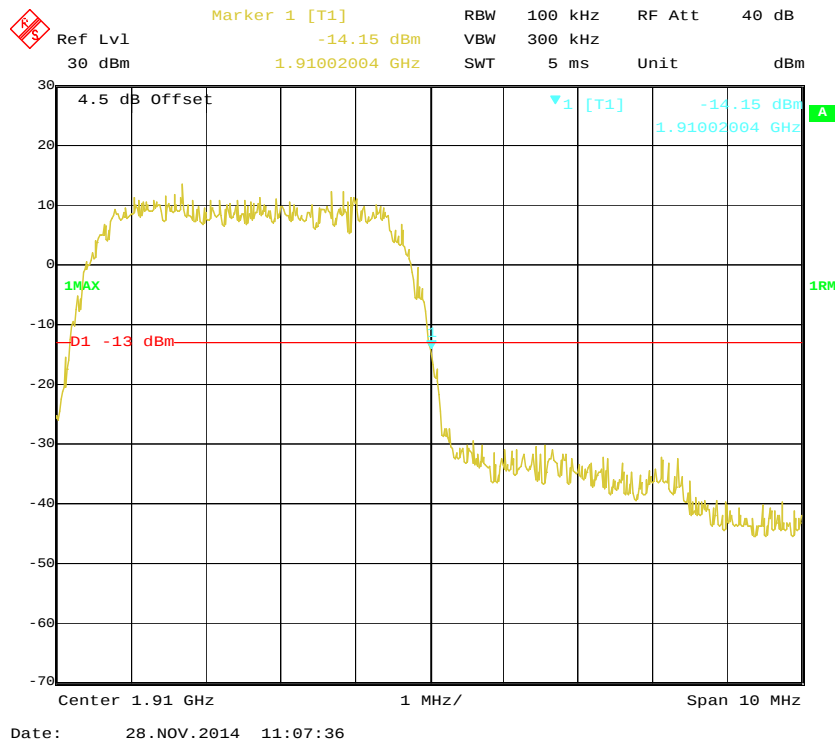
PCS Band, Right Band Edge for HSDPA (16QAM) Mode



PCS Band, Left Band Edge for HSUPA (BPSK) Mode



PCS Band, Right Band Edge for HSUPA (BPSK) Mode



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

Applicable Standard

FCC § 2.1055, §22.355, §24.235

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile > 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

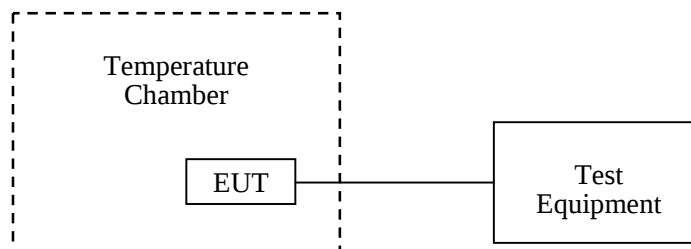
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

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 DC 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: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ESPEC	Temperature & Humidity Chamber	EL-10KA	09107726	2014-11-01	2015-11-01
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	106891	2014-11-23	2015-11-23

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

Test Data**Environmental Conditions**

Temperature:	20 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by William Li on 2014-11-30

EUT operation mode: Transmitting

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

Cellular Band (Part 22H)**GSM Mode**

Middle Channel, $f_0 = 836.6$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error(ppm)	Limit (ppm)
-30	3.8	-18	-0.022	2.5
-20		-16	-0.019	2.5
-10		-14	-0.017	2.5
0		-15	-0.018	2.5
10		-16	-0.019	2.5
20		-15	-0.018	2.5
30		-18	-0.022	2.5
40		-19	-0.023	2.5
50		-22	-0.026	2.5
25	V min.= 3.5	-17	-0.020	2.5
25	V max.= 4.35	-16	-0.019	2.5

EDGE Mode

Middle Channel, $f_0 = 836.6$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error(ppm)	Limit (ppm)
-30	3.8	-9	-0.011	2.5
-20		-9	-0.011	2.5
-10		-10	-0.012	2.5
0		-9	-0.011	2.5
10		-10	-0.012	2.5
20		-11	-0.013	2.5
30		-12	-0.014	2.5
40		-12	-0.014	2.5
50		-13	-0.016	2.5
25	V min.= 3.5	-10	-0.012	2.5
25	V max.= 4.35	-9	-0.011	2.5

WCDMA Mode

Middle Channel, $f_0 = 836.6$ MHz				
Temperature (°C)	Power Supplied(V _{DC})	Frequency Error(Hz)	Frequency Error(ppm)	Limit (ppm)
-30	3.8	-4	-0.005	2.5
-20		-3	-0.004	2.5
-10		-2	-0.002	2.5
0		-3	-0.004	2.5
10		-2	-0.002	2.5
20		-3	-0.004	2.5
30		-4	-0.005	2.5
40		-3	-0.004	2.5
50		-2	-0.002	2.5
25	V min.= 3.5	-3	-0.004	2.5
25	V max.= 4.35	-5	-0.006	2.5

PCS Band (Part 24E)**GSM Mode**

Middle Channel, $f_0=1880.0$ MHz				
Temperature (°C)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error(ppm)	Limit (ppm)
-30	3.8	-24	-0.013	PASS
-20		-23	-0.012	PASS
-10		-27	-0.014	PASS
0		-25	-0.013	PASS
10		-28	-0.015	PASS
20		-30	-0.016	PASS
30		-24	-0.013	PASS
40		-26	-0.014	PASS
50		-21	-0.011	PASS
25	$V_{min.}=3.5$	-26	-0.014	PASS
25	$V_{max.}=4.35$	-28	-0.015	PASS

EDGE Mode

Middle Channel, $f_0=1880.0$ MHz				
Temperature (°C)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error(ppm)	Limit (ppm)
-30	3.8	-35	-0.019	PASS
-20		-32	-0.017	PASS
-10		-29	-0.015	PASS
0		-24	-0.013	PASS
10		-22	-0.012	PASS
20		-26	-0.014	PASS
30		-28	-0.015	PASS
40		-32	-0.017	PASS
50		-36	-0.019	PASS
25	$V_{min.}=3.5$	-32	-0.017	PASS
25	$V_{max.}=4.35$	-33	-0.018	PASS

WCDMA Mode

Middle Channel, $f_0=1880.0$ MHz				
Temperature (°C)	Power Supplied(V_{DC})	Frequency Error(ppm)	Frequency Error(ppm)	Limit (ppm)
-30	3.8	-11	-0.006	PASS
-20		-11	-0.006	PASS
-10		-10	-0.005	PASS
0		-10	-0.005	PASS
10		-11	-0.006	PASS
20		-11	-0.006	PASS
30		-9	-0.005	PASS
40		-11	-0.006	PASS
50		-10	-0.005	PASS
25	$V_{min.}=3.5$	-9	-0.005	PASS
25	$V_{max.}=4.35$	-10	-0.005	PASS

PRODUCT SIMILARITY DECLARATION LETTER



DDM Brands LLC
1616 NW, 84TH Ave. Miami, Florida, U.S.A
Tel: +13057750325 Fax: +13057750325

2014-7-16

Product Similarity Declaration

To Whom It May Concern,

We, DDM Brands LLC, hereby declare that we have a product named as 4G mobile phone (Model number: ANDY 5Q) was tested by BACL, meanwhile, for our marketing purpose, we would like to list a series models (Andy 5Q, Andy 5QL, AM5QL133, Andy C5Q, Andy C5QL, AC5QL133) on reports and certificate, all the models are identical schematics, except for the differences as below,

1, model number is different.

No other changes are made to them.

We confirm that all information above is true, and we'll be responsible for all the consequences. Please contact me if you have any question.

Signature:

Luis Sosa

CEO

A handwritten signature in black ink, appearing to be 'LS' or 'Luis Sosa', written over a faint circular stamp or watermark.

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