

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

For

DDM Brands LLC

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

FCC ID: A4JANDY5TL

Report Type: Original Report	Product Type: 3G mobile phone
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Report Number: RSZ141215003-00C	
Report Date: 2014-12-26	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The DDM Brands LLC's product, model number: *Andy 5T (FCC ID: A4JANDY5TL)* (or the "EUT") in this report was a *3G mobile phone*, which was measured approximately: 14.5 cm (L) x 7.5 cm (W) x 0.75 cm (H), rated input voltage: DC3.7 V rechargeable Li-ion or DC5V charging from adapter.

Adapter information:

Model: YW1000US

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

Output: DC 5.0V, 1A

Note: The series product, model Andy 5T, Andy 5TL, AM5TL043, Andy C5T, Andy C5TL and AC5TL043 are electrically identical, the difference between them is just the model number, we selected Andy 5T for fully testing, the detail was explained in the attached declaration letter.

** All measurement and test data in this report was gathered from production sample serial number: 141215003 (Assigned by BACL Dongguan). The EUT was received on 2014-12-15.*

Objective

This 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 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: A4JANDY5TL

FCC Part 15C DSS submissions with FCC ID: A4JANDY5TL

FCC Part 15C DTS submissions with FCC ID: A4JANDY5TL

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

Applicable Standards: TIA/EIA 603-D-2010, ANSI C63.4-2003.

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

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 Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications 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 February 02, 2012. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Justification

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

The test items were performed with the EUT operating at testing mode.

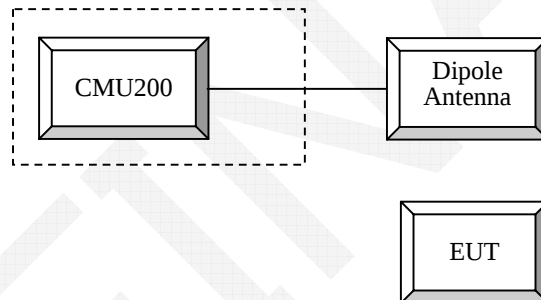
Equipment Modifications

No modification was made to the EUT.

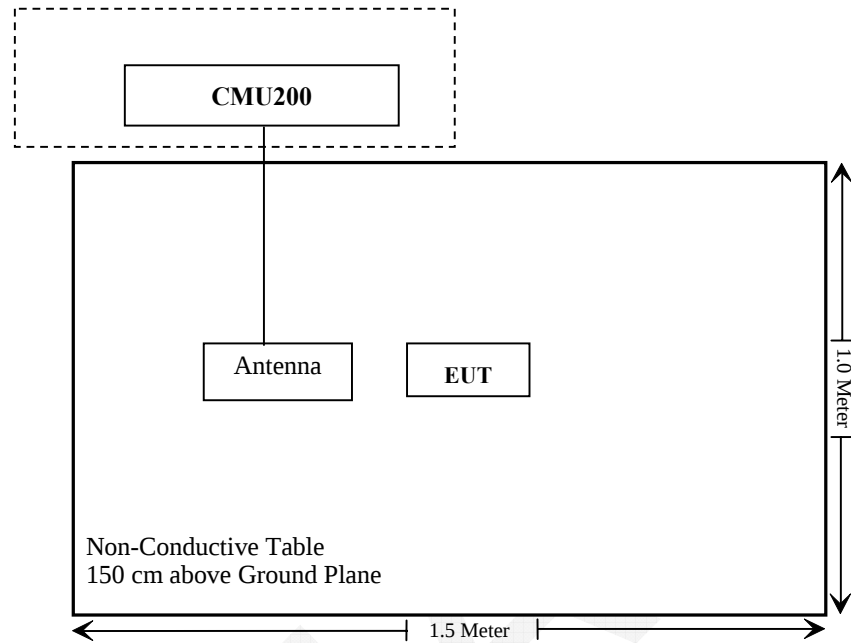
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
R&S	Universal Radio Communication Tester	CMU200	109038
N/A	ANTENNA	N/A	N/A

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310, §2.1093	RF Exposure	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	Occupied 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

FCC §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliant, please refer to the SAR report: RSZ141215003-20.

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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.

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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**GSM**

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 + only
MS Signal
 > 33 dBm for GSM 850
 > 30 dBm for GSM 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
TCH > choose desired test channel
Hopping > Off
AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input
Connection Press Signal on to turn on the signal and change settings

GPRS

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
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)
 Bit Stream > 2E9-1 PSR Bit Stream
 AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input
 Connection Press Signal on to turn on the signal and change settings

UMTS Rel 99

	Mode	Rel99
	Subtest	-
WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	HSDPA FRC	Not Applicable
	HSUPA Test	Not Applicable
	Power Control Algorithm	Algorithm2
	β_c	Not Applicable
	β_d	Not Applicable
	β_{ec}	Not Applicable
	β_c/β_d	8/15
	β_{hs}	Not Applicable
	β_{ed}	Not Applicable

UMTS Rel 6 HSDPA

	Mode	Rel6 HSDPA	Rel6 HSDPA	Rel6 HSDPA	Rel6 HSDPA
	Subtest	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set1			
	HSUPA Test	Not Applicable			
	Power Control Algorithm	Algorithm 2			
	β_c	2/15	12/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	β_{ec}	-	-	-	-
	β_c/β_d	2/15	12/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
HSDPA Specific Settings	β_{ed}	Not Applicable			
	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback (Table 5.2B.4)	4ms			
	CQI Repetition Factor (Table 5.2B.4)	2			
	Ahs = β_{hs}/β_c	30/15			

UMTS Rel 6 HSPA (HSDPA & HSUPA)

	Mode	Rel6 HSUPA	Rel6 HSUPA	Rel6 HSUPA	Rel6 HSUPA	Rel6 HSUPA
	Subtest	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
	β_c/β_d	11/15	6/15	15/9	2/15	-
	β_{hs}	22/15	12/15	30/15	4/15	5/15
HSDPA Specific Settings	β_{ed}	1309/225	94/75	47/15	56/75	47/15
	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				
	CQI Repetition Factor (Table 5.2B.4)	2				
	$A_{hs} = \beta_{hs}/\beta_c$	30/15				
HSUPA Specific Settings	D E-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	12
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	67
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E_TFCIs	E-TFCI 11 E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO 23 E-TFCI 75 E-TFCI PO 26 E-TFCI 81 E-TFCI PO 27		E-TFCI 11 E-TFCI PO 4 E-TFCI 92 E-TFCI PO 18 E-TFCI 71 E-TFCI PO 23 E-TFCI 75 E-TFCI PO 26 E-TFCI 81 E-TFCI PO 27		
				E-TFCI 11 E-TFCI PO 4 E-TFCI 92 E-TFCI PO 18 E-TFCI 71 E-TFCI PO 23 E-TFCI 75 E-TFCI PO 26 E-TFCI 81 E-TFCI PO 27		
				E-TFCI 11 E-TFCI PO 4 E-TFCI 92 E-TFCI PO 18 E-TFCI 71 E-TFCI PO 23 E-TFCI 75 E-TFCI PO 26 E-TFCI 81 E-TFCI PO 27		
				E-TFCI 11 E-TFCI PO 4 E-TFCI 92 E-TFCI PO 18 E-TFCI 71 E-TFCI PO 23 E-TFCI 75 E-TFCI PO 26 E-TFCI 81 E-TFCI PO 27		

Radiated method:

ANSI/TIA 603-D section 2.2.17

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2014-05-09	2015-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2014-09-01	2015-09-01
R&S	Spectrum Analyzer	FSEM	DE31388	2014-05-09	2015-05-09
ETS LINDGREN	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2014-02-19	2015-02-19
Giga	Signal Generator	1026	320408	2014-05-09	2015-05-09
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
TDK RF	Horn Antenna	HRN-0118	130 084	2012-09-06	2015-09-06

* **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:	21.6 °C
Relative Humidity:	37 %
ATM Pressure:	101.9 kPa

The testing was performed by Dean Liu on 2014-12-20.

Conducted Power**Cellular Band (Part 22H) & PCS Band (Part 24E)**

Band	Channel No.	Peak Output Power (dBm)				
		GSM	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot
Cellular	128	32.13	32.15	31.43	29.77	28.85
	190	32.01	32.05	31.28	29.73	28.80
	251	31.84	31.89	31.14	29.67	28.75
PCS	512	28.25	28.27	27.49	25.69	24.50
	661	28.60	28.69	27.94	26.06	25.02
	810	28.36	28.52	27.85	26.00	25.05

WCDMA Band II

Mode	3GPP Sub Test	Average Output Power (dBm)					
		Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)
Rel 99	1	21.91	3.18	21.84	3.36	21.47	3.26
HSDPA	1	21.95	3.23	21.79	3.41	21.50	3.35
	2	21.94	3.24	21.91	3.42	21.41	3.36
	3	21.90	3.24	21.79	3.41	21.49	3.35
	4	21.86	3.25	21.75	3.42	21.49	3.35
HSUPA	1	21.95	3.22	21.83	3.41	21.46	3.34
	2	21.86	3.23	21.78	3.42	21.56	3.34
	3	21.85	3.22	21.92	3.42	21.47	3.35
	4	21.81	3.24	21.76	3.41	21.51	3.35
	5	21.92	3.23	21.92	3.42	21.42	3.36

WCDMA Band V

Mode	3GPP Sub Test	Average Output Power (dBm)					
		Low Channel (Ave. Power)	Low Channel (PAR)	Middle Channel (Ave. Power)	Middle Channel (PAR)	High Channel (Ave. Power)	High Channel (PAR)
Rel 99	1	22.38	3.15	22.56	3.20	22.24	2.94
HSDPA	1	22.48	3.19	22.50	3.25	22.19	3.04
	2	22.31	3.20	22.61	3.24	22.27	3.05
	3	22.29	3.18	22.50	3.25	22.30	3.04
	4	22.33	3.19	22.46	3.24	22.31	3.05
HSUPA	1	22.44	3.18	22.48	3.25	22.32	3.04
	2	22.38	3.19	22.59	3.24	22.27	3.05
	3	22.36	3.20	22.60	3.25	22.33	3.03
	4	22.44	3.19	22.55	3.25	22.28	3.04
	5	22.42	3.19	22.54	3.24	22.31	3.04

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

ERP & EIRP

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850								
824.200	H	97.60	22.6	0.0	1.0	21.6	38.45	16.85
824.200	V	104.69	32.8	0.0	1.0	31.8	38.45	6.65
836.600	H	95.82	20.9	0.0	1.0	19.9	38.45	18.55
836.600	V	104.08	32.3	0.0	1.0	31.3	38.45	7.15
848.800	H	96.42	21.6	0.0	1.0	20.6	38.45	17.85
848.800	V	104.19	32.5	0.0	1.0	31.5	38.45	6.95
PCS 1900								
1850.200	H	89.57	17.7	11.4	1.4	27.7	33.0	5.3
1850.200	V	86.03	14.1	11.4	1.4	24.1	33.0	8.9
1880.000	H	89.43	17.8	11.7	1.4	28.1	33.0	4.9
1880.000	V	84.56	13.1	11.7	1.4	23.4	33.0	9.6
1909.800	H	88.85	17.5	11.8	1.4	27.9	33.0	5.1
1909.800	V	84.63	13.6	11.8	1.4	24.0	33.0	9.0
WCDMA Band II								
1852.400	H	83.31	11.5	11.5	1.4	21.6	33.0	11.4
1852.400	V	79.52	7.6	11.5	1.4	17.7	33.0	15.3
1880.000	H	83.05	11.5	11.7	1.4	21.8	33.0	11.2
1880.000	V	78.61	7.2	11.7	1.4	17.5	33.0	15.5
1907.600	H	82.49	11.1	11.8	1.4	21.5	33.0	11.5
1907.600	V	78.44	7.4	11.8	1.4	17.8	33.0	15.2
WCDMA Band V								
826.400	H	86.83	11.8	0.0	1.0	10.8	38.45	27.65
826.400	V	93.82	21.9	0.0	1.0	20.9	38.45	17.55
836.600	H	85.52	10.6	0.0	1.0	9.6	38.45	28.85
836.600	V	93.00	21.2	0.0	1.0	20.2	38.45	18.25
846.600	H	85.74	10.9	0.0	1.0	9.9	38.45	28.55
846.600	V	93.05	21.4	0.0	1.0	20.4	38.45	18.05

FCC §2.1049, §22.917, §22.905 & §24.238 - OCCUPIED BANDWIDTH

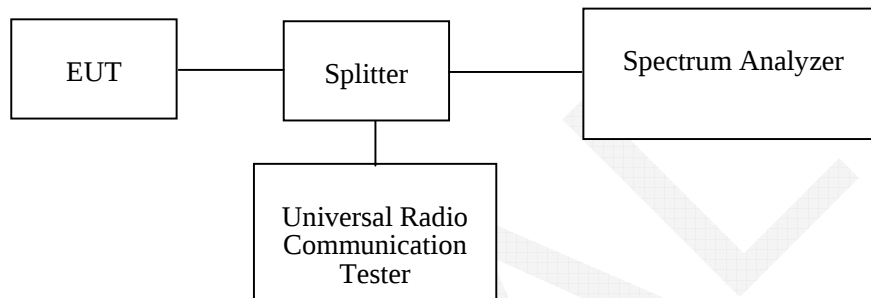
Applicable Standard

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 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	FSEM	DE31388	2014-05-09	2015-05-09

* **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:	21.6 °C
Relative Humidity:	37 %
ATM Pressure:	101.9 kPa

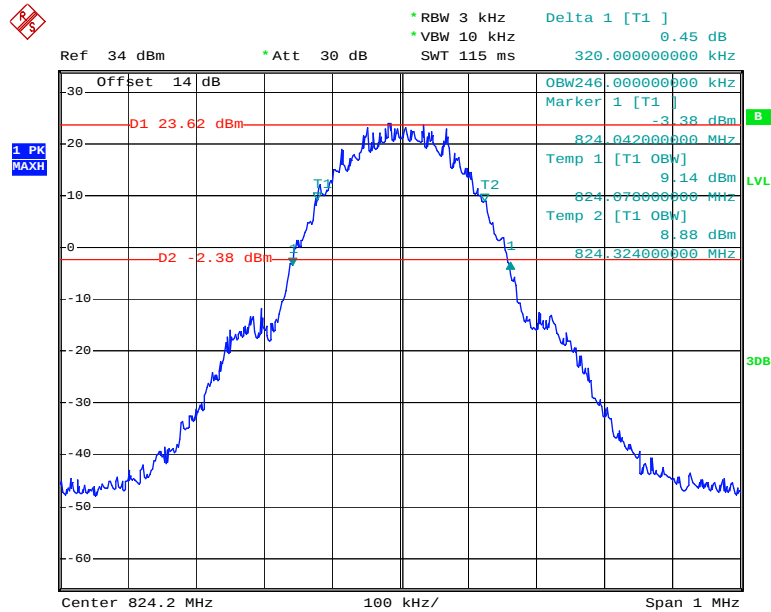
The testing was performed by Dean Liu on 2014-12-20.

Test Mode: Transmitting

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

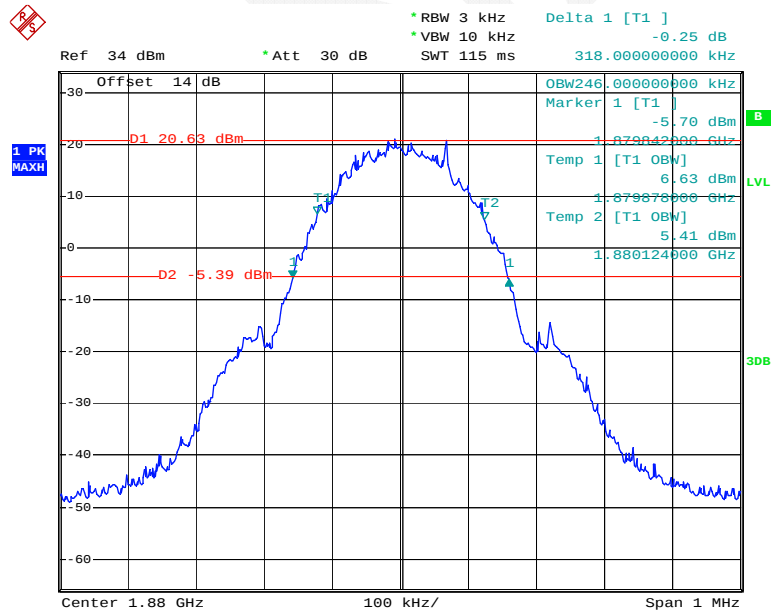
Band	Channel No.	Mode	99% Occupied Bandwidth (kHz)	26 dB Occupied Bandwidth (kHz)
Cellular	190	GSM	246	320
PCS	661	GSM	246	318
WCDMA Band II	9400	Rel 99	4200	4740
	9400	HSDPA	4180	4720
	9400	HSUPA	4180	4720
WCDMA Band V	4183	Rel 99	4160	4720
	4183	HSDPA	4180	4720
	4183	HSUPA	4160	4740

GMSK Cellular Band



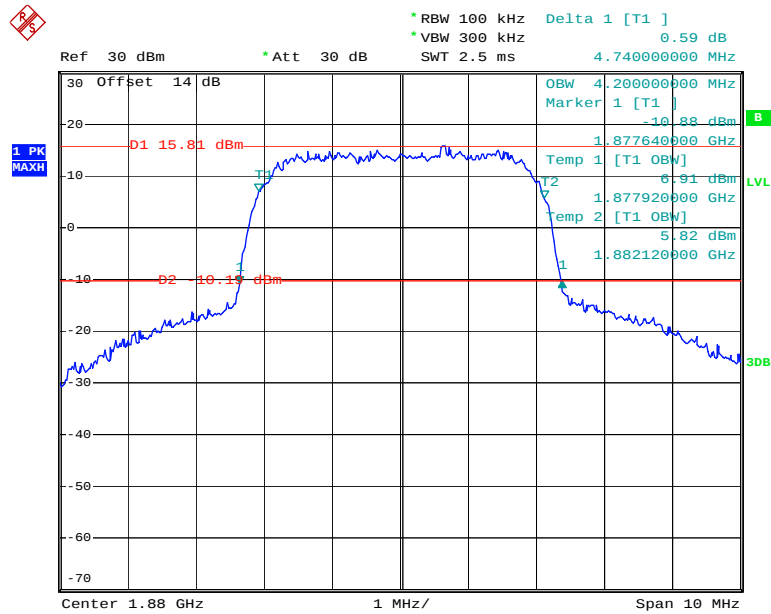
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GMSK PCS Band



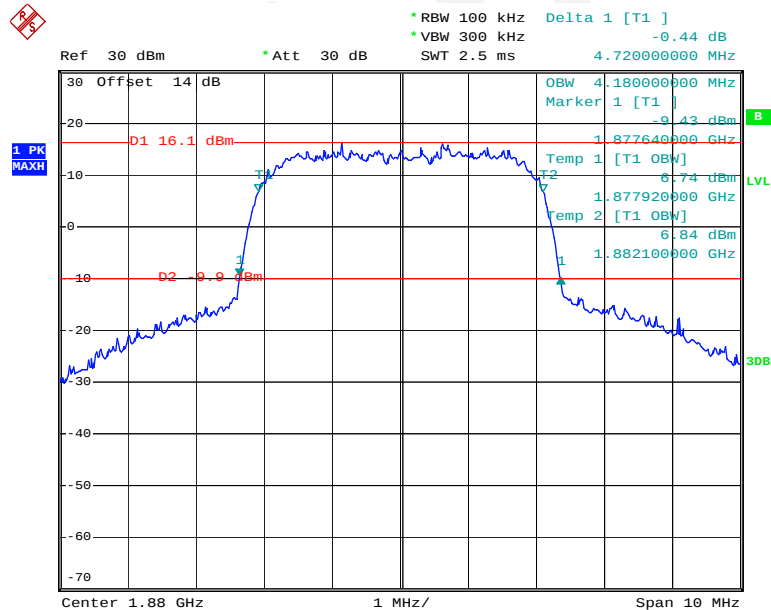
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REL99 Band II



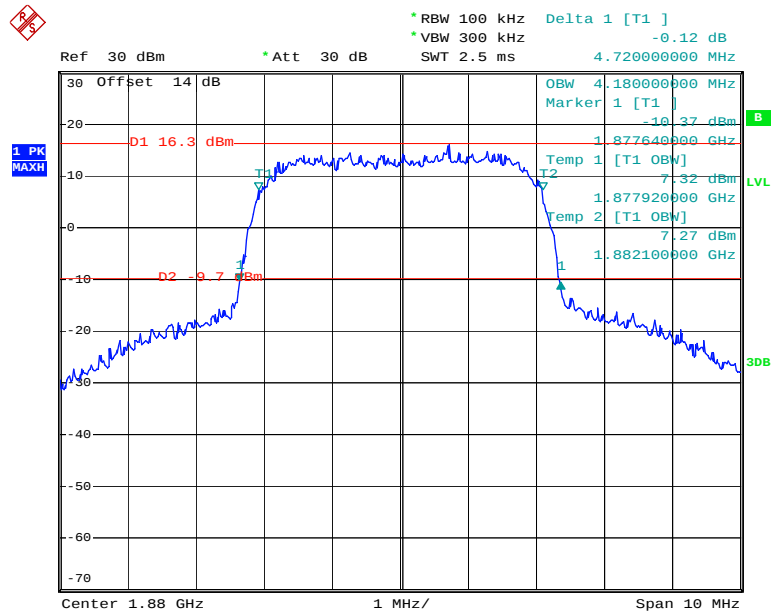
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HSDPA Band II



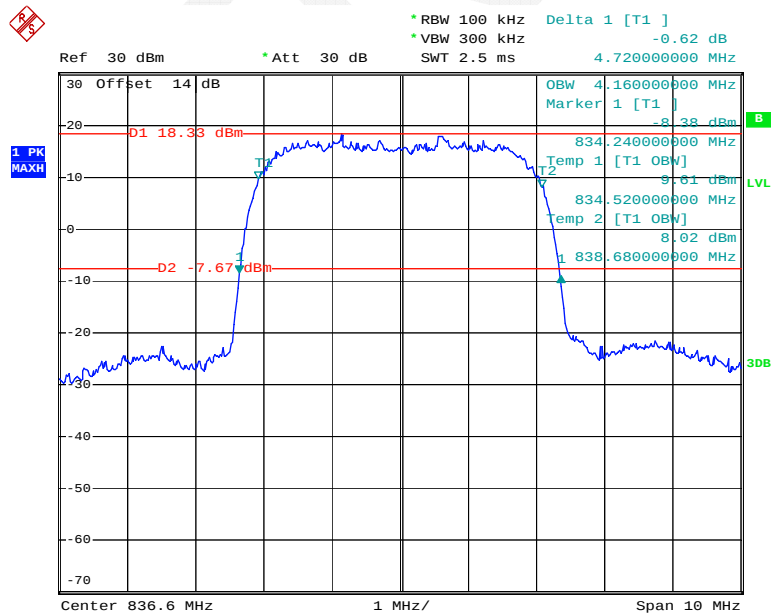
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HSUPA Band II



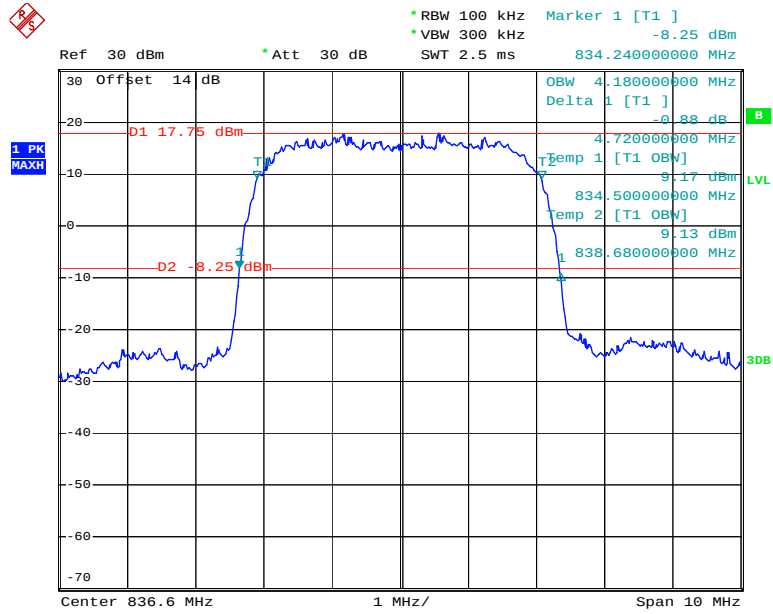
Date: 20.DEC.2014 09:53:52

REL99 Band V



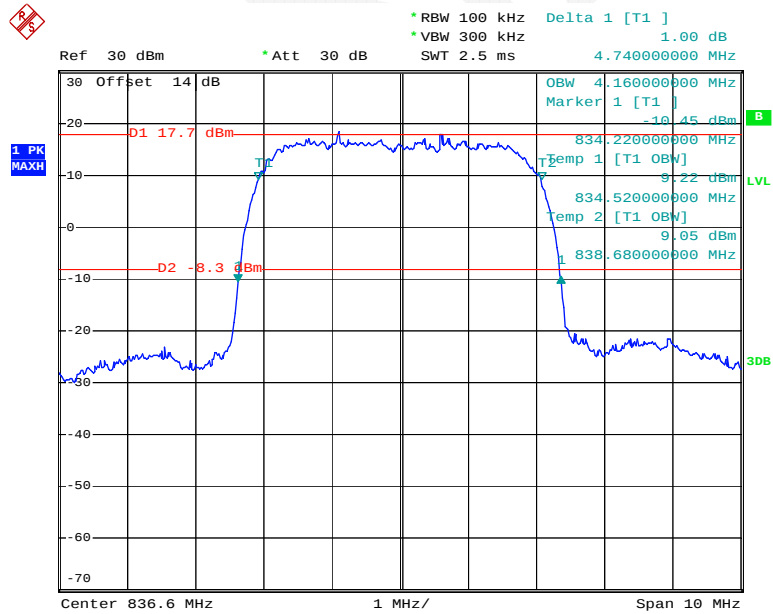
Date: 20.DEC.2014 10:14:16

HSDPA Band V



Date: 20.DEC.2014 10:13:19

HSUPA Band V



Date: 20.DEC.2014 10:12:34

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

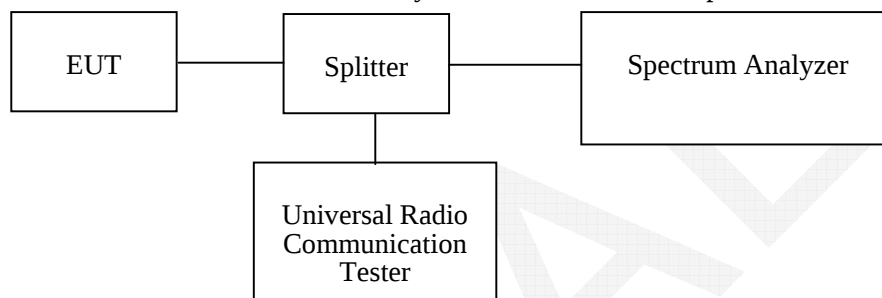
Applicable Standard

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. 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	FSEM	DE31388	2014-05-09	2015-05-09

* **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

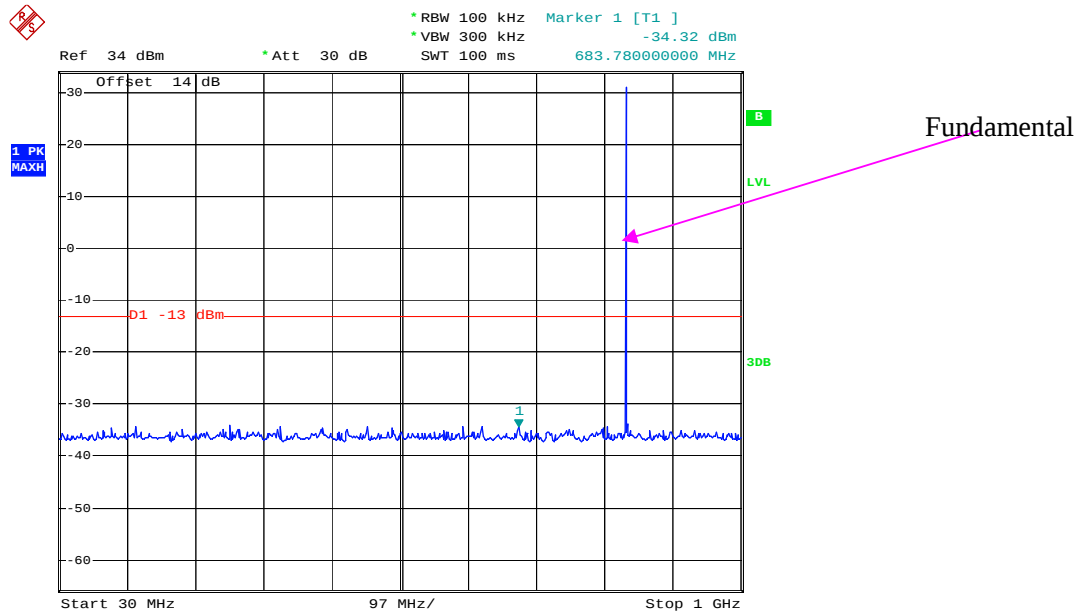
Environmental Conditions

Temperature:	21.6 °C
Relative Humidity:	37 %
ATM Pressure:	101.9 kPa

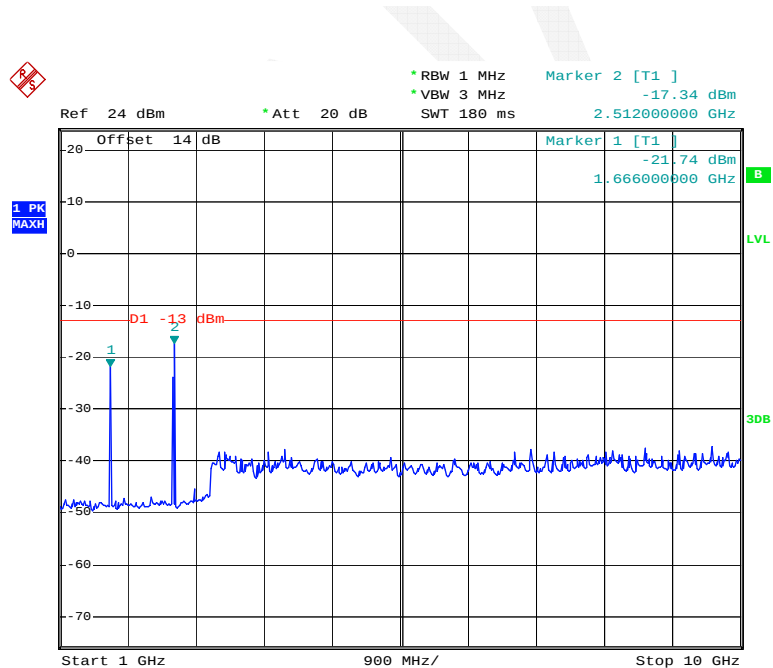
The testing was performed by Dean Liu on 2014-12-20.

Please refer to the following plots.

GSM850 low channel

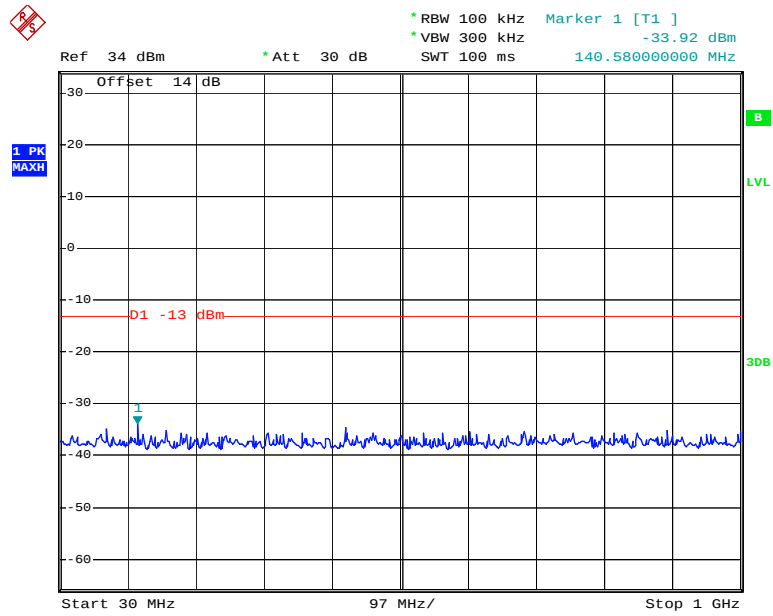


Date: 19.DEC.2014 18:02:35

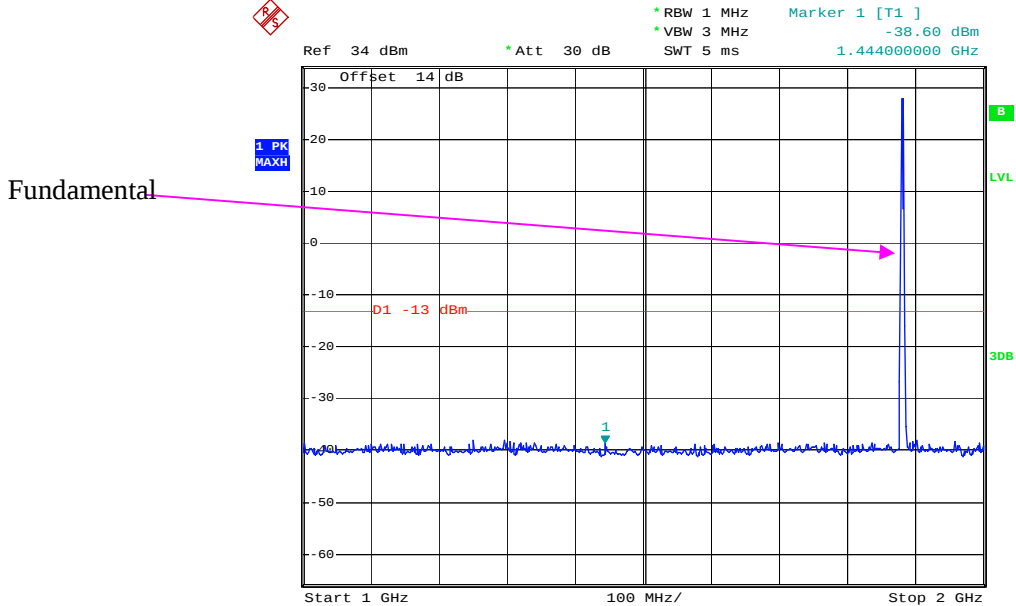


Date: 19.DEC.2014 17:58:22

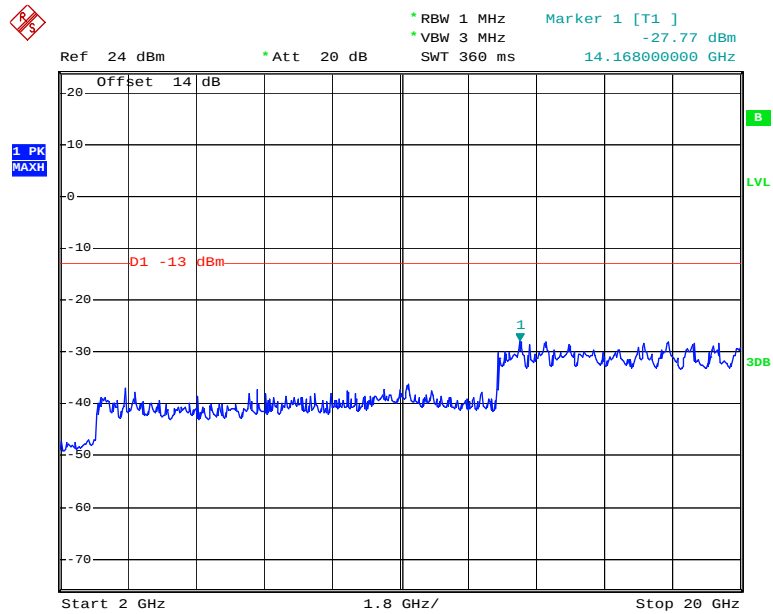
PCS 1900_middle channel



Date: 19.DEC.2014 18:38:24

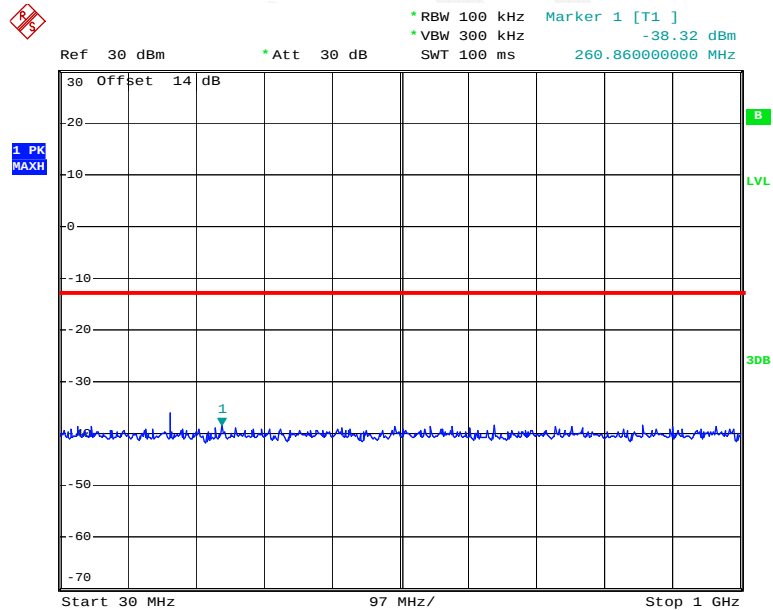


Date: 19.DEC.2014 18:40:27

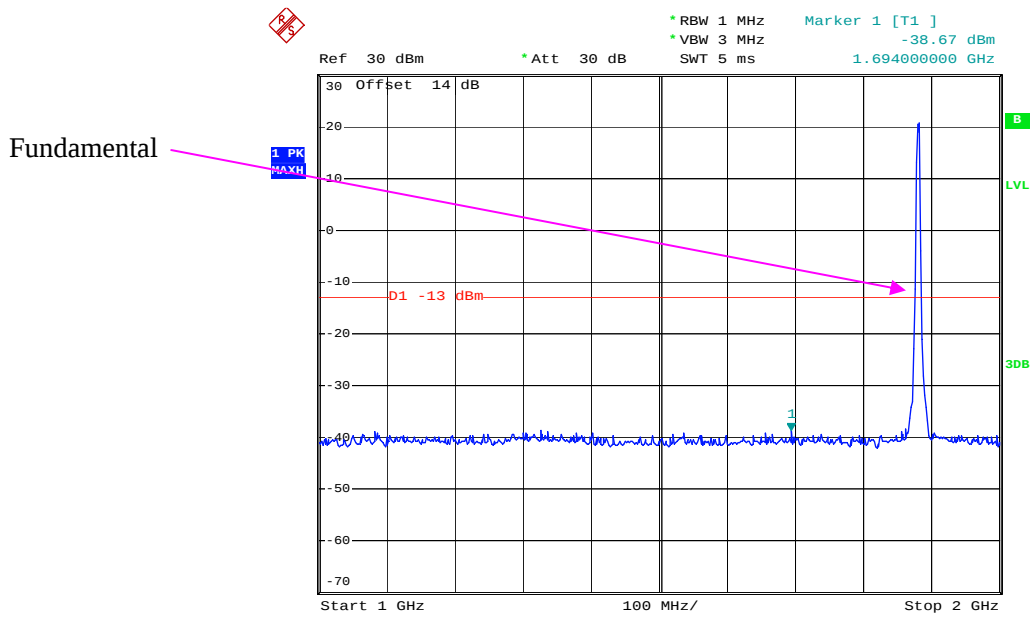


Date: 19.DEC.2014 18:42:58

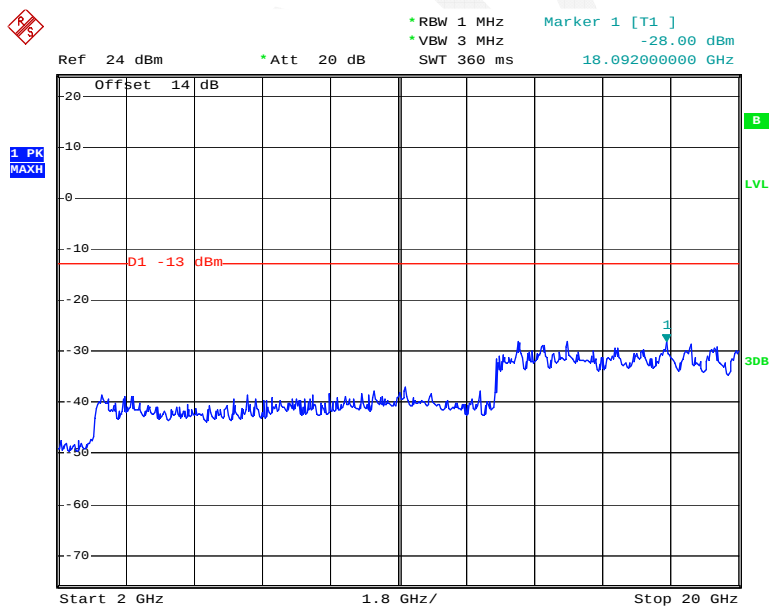
REL99 Band II Low channel



Date: 20.DEC.2014 09:49:53

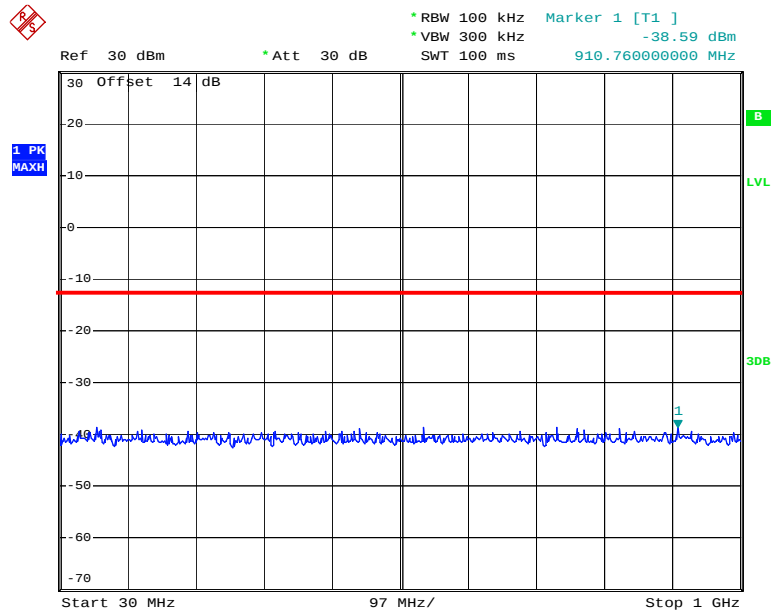


Date: 20.DEC.2014 09:57:47

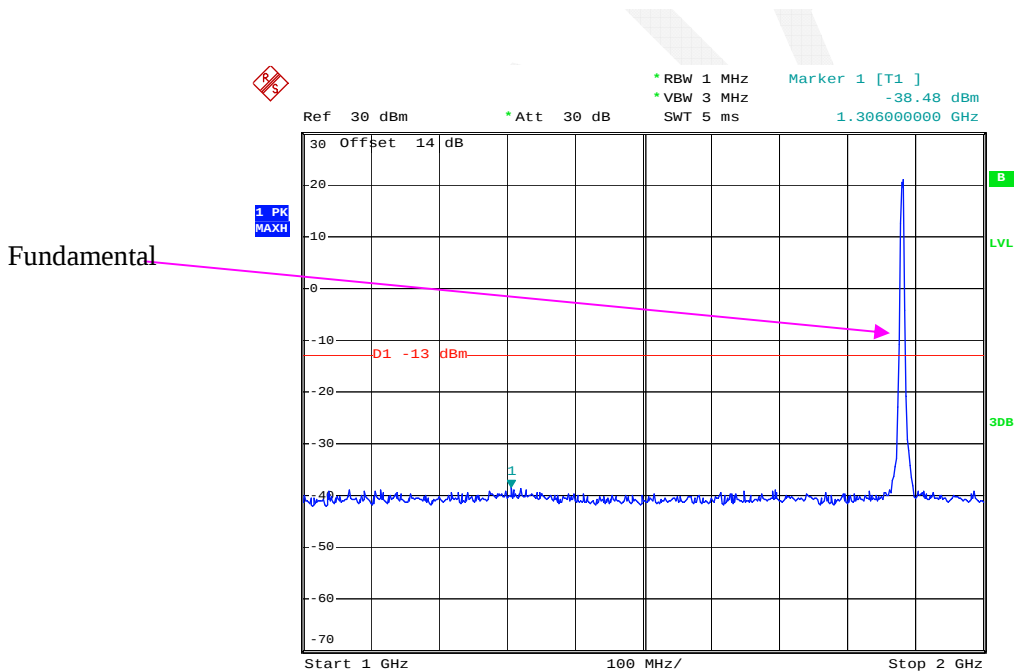


Date: 20.DEC.2014 10:00:43

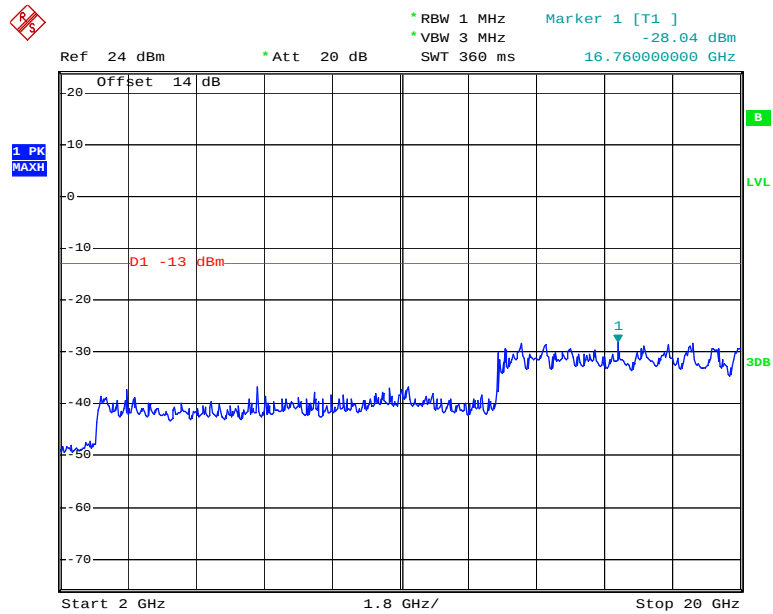
HSDPA Band II Low channel



Date: 20.DEC.2014 09:49:29

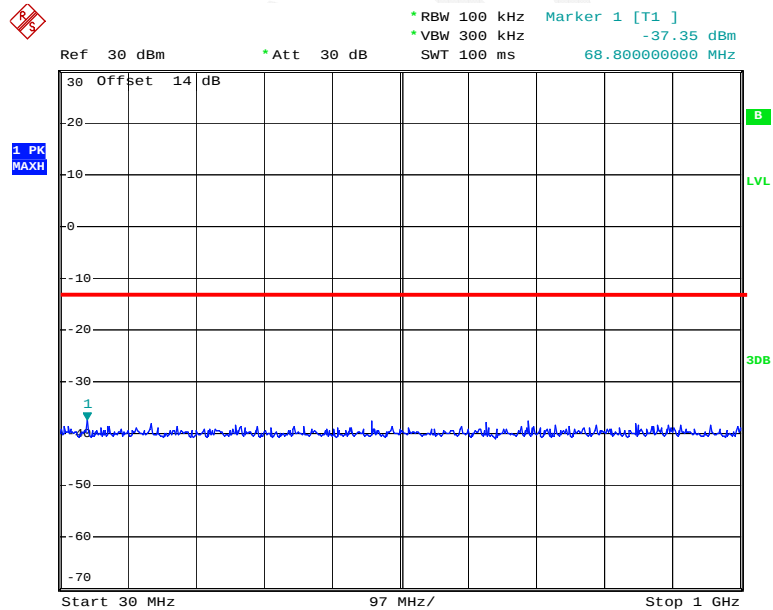


Date: 20.DEC.2014 09:57:33

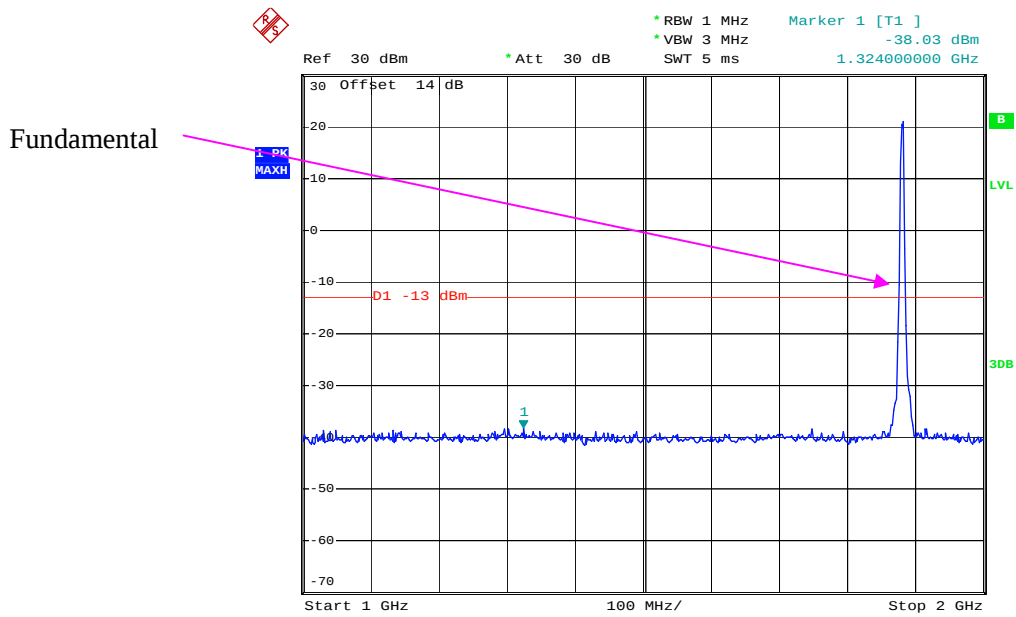


Date: 20.DEC.2014 10:00:27

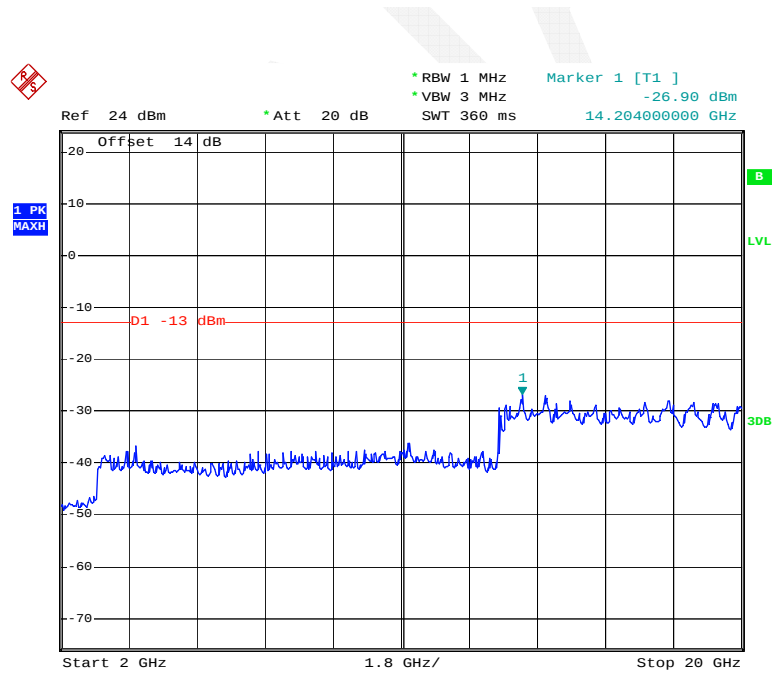
HSUPA Band II Low channel



Date: 20.DEC.2014 09:49:17

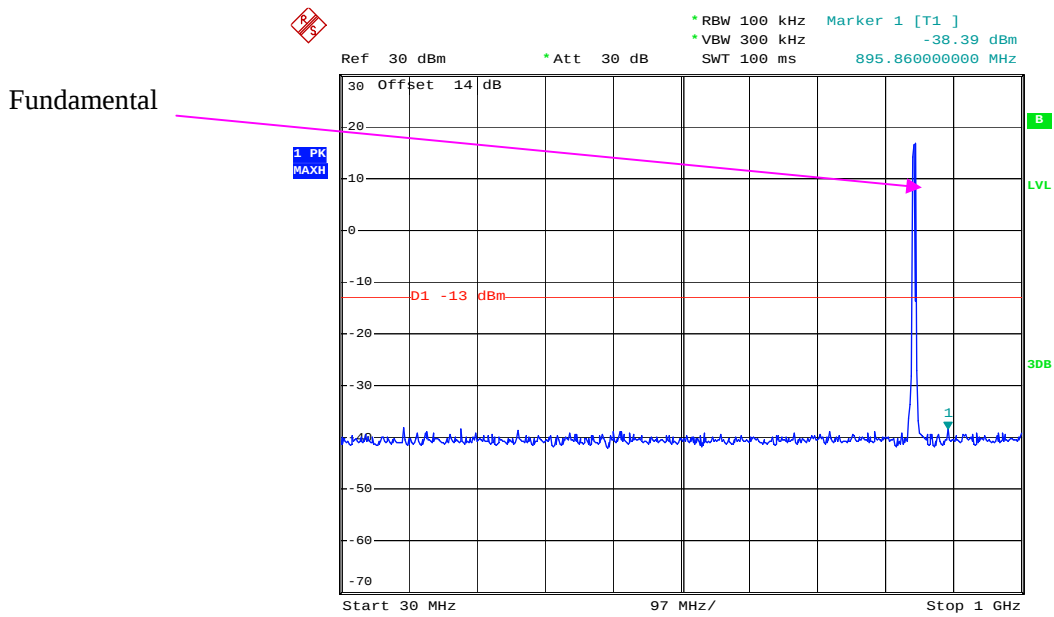


Date: 20.DEC.2014 09:57:18

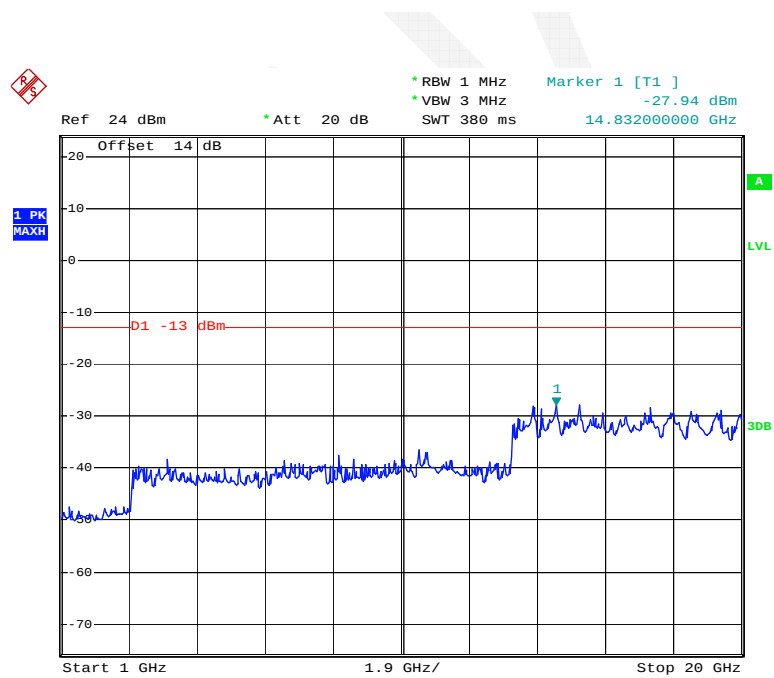


Date: 20.DEC.2014 10:00:04

REL99 Band V middle channel

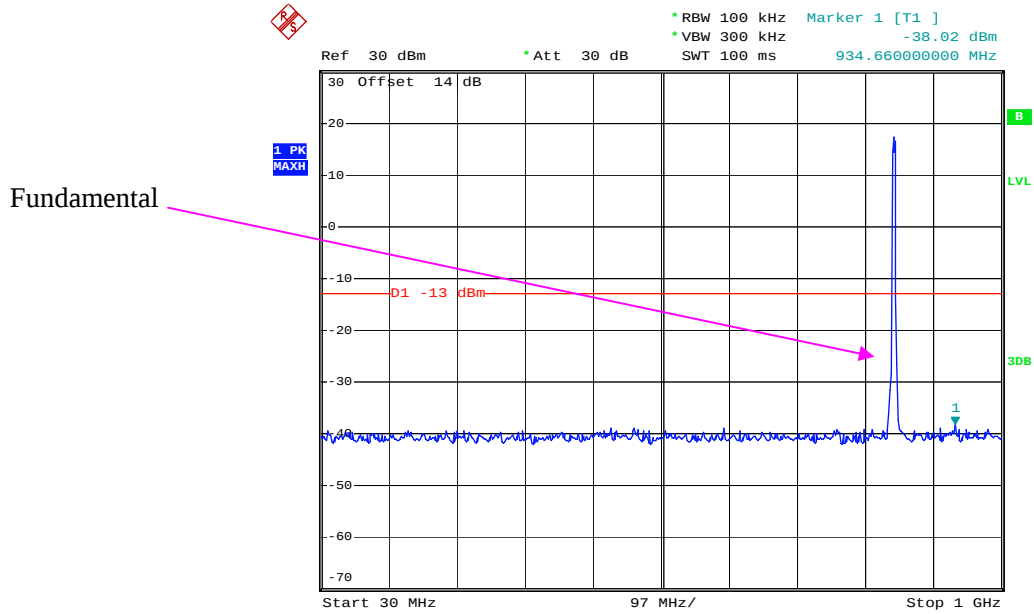


Date: 20.DEC.2014 10:31:03

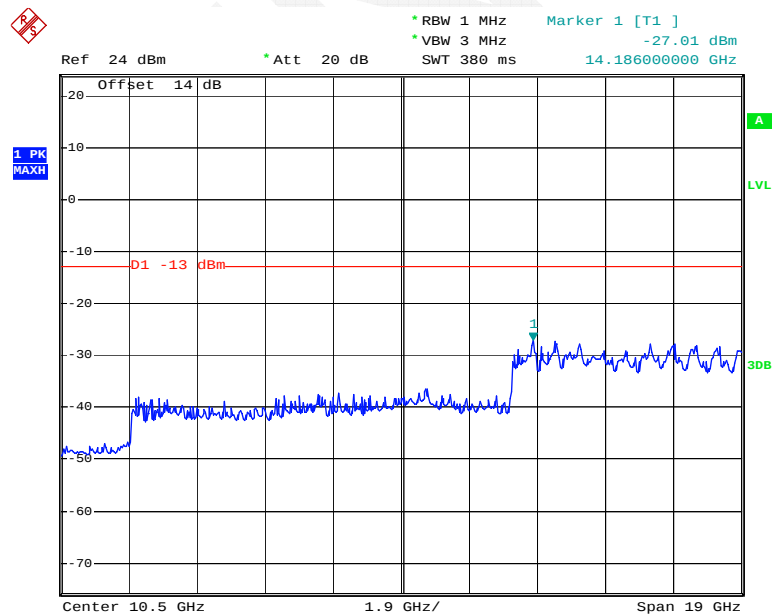


Date: 31.DEC.2014 09:45:18

HSDPA Band V Middle channel

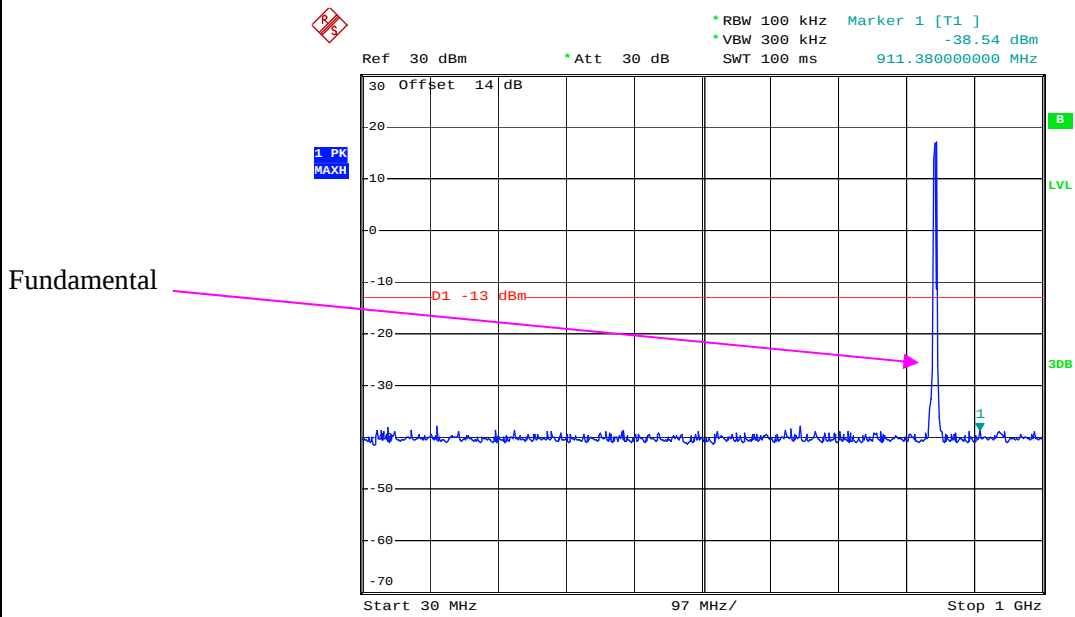


Date: 20.DEC.2014 10:30:46

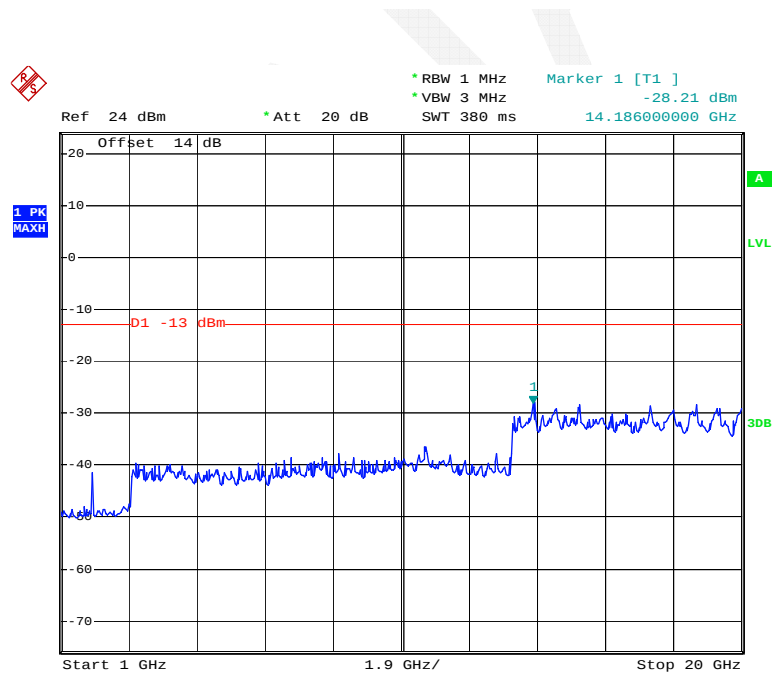


Date: 31.DEC.2014 09:39:56

HSUPA Band V middle channel



Date: 20.DEC.2014 10:30:32



Date: 31.DEC.2014 09:45:05

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 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	2014-05-09	2015-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2014-09-01	2015-09-01
R&S	Spectrum Analyzer	FSEM	DE31388	2014-05-09	2015-05-09
ETS LINDGREN	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2014-02-19	2015-02-19
Giga	Signal Generator	1026	320408	2014-05-09	2015-05-09
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
TDK RF	Horn Antenna	HRN-0118	130 084	2012-09-06	2015-09-06

* **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:	21.6 °C
Relative Humidity:	37 %
ATM Pressure:	101.9 kPa

The testing was performed by Dean Liu on 2014-12-20

EUT Operation Mode: Transmitting

Cellular Band**30 MHz-10GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:824.200 MHz								
1648.400	H	49.28	-51.8	10.5	1.5	-42.8	-13.0	29.8
1648.400	V	51.41	-50.2	10.5	1.5	-41.2	-13.0	28.2
2472.600	H	56.14	-41.9	12.9	2.6	-31.6	-13.0	18.6
2472.600	V	51.28	-45.5	12.9	2.6	-35.2	-13.0	22.2
42.610	H	36.61	-43.5	-23.0	0.2	-66.7	-13.0	53.7
392.780	V	27.40	-66.2	0.0	0.6	-66.8	-13.0	53.8
Frequency:836.600 MHz								
1673.200	H	47.22	-53.9	10.6	1.5	-44.8	-13.0	31.8
1673.200	V	49.19	-52.2	10.6	1.5	-43.1	-13.0	30.1
2509.800	H	52.58	-45.4	13.1	2.8	-35.1	-13.0	22.1
2509.800	V	51.87	-45.2	13.1	2.8	-34.9	-13.0	21.9
42.610	H	36.82	-43.3	-23.0	0.2	-66.5	-13.0	53.5
392.780	V	27.62	-66.0	0.0	0.6	-66.6	-13.0	53.6
Frequency:848.800 MHz								
1697.600	H	45.14	-55.9	10.8	1.5	-46.6	-13.0	33.6
1697.600	V	49.50	-51.7	10.8	1.5	-42.4	-13.0	29.4
2546.400	H	46.83	-49.7	13.1	2.8	-39.4	-13.0	26.4
2546.400	V	47.75	-49.3	13.1	2.8	-39.0	-13.0	26.0
42.610	H	36.53	-43.6	-23.0	0.2	-66.8	-13.0	53.8
392.780	V	27.24	-66.3	0.0	0.6	-66.9	-13.0	53.9

PCS Band**30 MHz-20GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:1850.200 MHz								
3700.400	H	56.17	-38.6	14.0	2.5	-27.1	-13.0	14.1
3700.400	V	48.56	-45.8	14.0	2.5	-34.3	-13.0	21.3
42.610	H	34.60	-45.5	-23.0	0.2	-68.7	-13.0	55.7
392.780	V	25.50	-68.1	0.0	0.6	-68.7	-13.0	55.7
Frequency:1880.000 MHz								
3760.000	H	56.74	-37.6	13.8	2.9	-26.7	-13.0	13.7
3760.000	V	50.91	-42.2	13.8	2.9	-31.3	-13.0	18.3
42.610	H	34.60	-45.5	-23.0	0.2	-68.7	-13.0	55.7
392.780	V	25.40	-68.2	0.0	0.6	-68.8	-13.0	55.8
Frequency:1909.800 MHz								
3819.600	H	57.51	-36.3	13.6	3.3	-26.0	-13.0	13.0
3819.600	V	51.24	-40.9	13.6	3.3	-30.6	-13.0	17.6
42.610	H	34.60	-45.5	-23.0	0.2	-68.7	-13.0	55.7
392.780	V	25.30	-68.3	0.0	0.6	-68.9	-13.0	55.9

WCDMA Band II**30 MHz-20GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:1852.400 MHz								
3704.800	H	46.62	-48.1	13.9	2.5	-36.7	-13.0	23.7
3704.800	V	45.77	-48.5	13.9	2.5	-37.1	-13.0	24.1
42.610	H	34.50	-45.6	-23.0	0.2	-68.8	-13.0	55.8
392.780	V	25.30	-68.3	0.0	0.6	-68.9	-13.0	55.9
Frequency:1880.000 MHz								
3760.000	H	50.76	-43.5	13.8	2.9	-32.6	-13.0	19.6
3760.000	V	49.19	-43.9	13.8	2.9	-33.0	-13.0	20.0
42.610	H	34.40	-45.7	-23.0	0.2	-68.9	-13.0	55.9
392.780	V	25.10	-68.5	0.0	0.6	-69.1	-13.0	56.1
Frequency:1907.600 MHz								
3815.200	H	48.75	-45.1	13.6	3.3	-34.8	-13.0	21.8
3815.200	V	47.96	-44.2	13.6	3.3	-33.9	-13.0	20.9
42.610	H	34.30	-45.8	-23.0	0.2	-69.0	-13.0	56.0
392.780	V	25.20	-68.4	0.0	0.6	-69.0	-13.0	56.0

WCDMA Band V

30 MHz-10GHz:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:1852.400 MHz								
1652.800	H	47.53	-53.6	10.5	1.5	-44.6	-13.0	31.6
1652.800	V	50.25	-51.3	10.5	1.5	-42.3	-13.0	29.3
42.610	H	36.70	-43.4	-23.0	0.2	-66.6	-13.0	53.6
392.780	V	28.30	-65.3	0.0	0.6	-65.9	-13.0	52.9
Frequency:1880.000 MHz								
1673.200	H	45.03	-56.0	10.6	1.5	-46.9	-13.0	33.9
1673.200	V	47.98	-53.4	10.6	1.5	-44.3	-13.0	31.3
42.610	H	37.20	-42.9	-23.0	0.2	-66.1	-13.0	53.1
392.780	V	27.10	-66.5	0.0	0.6	-67.1	-13.0	54.1
Frequency:1907.600 MHz								
1693.200	H	50.56	-50.5	10.7	1.5	-41.3	-13.0	28.3
1693.200	V	50.65	-50.6	10.7	1.5	-41.4	-13.0	28.4
42.610	H	36.10	-44.0	-23.0	0.2	-67.2	-13.0	54.2
392.780	V	27.40	-66.2	0.0	0.6	-66.8	-13.0	53.8

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 = SG Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

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

Applicable Standard

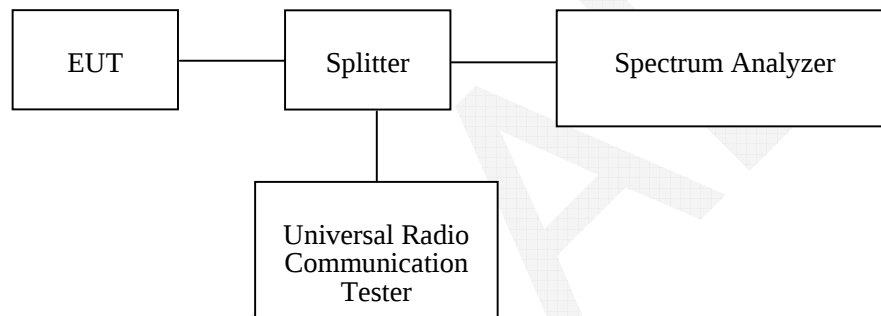
According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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	Spectrum Analyzer	FSEM	DE31388	2014-05-09	2015-05-09

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

Test Data

Environmental Conditions

Temperature:	21.6 °C
Relative Humidity:	37 %
ATM Pressure:	101.9 kPa

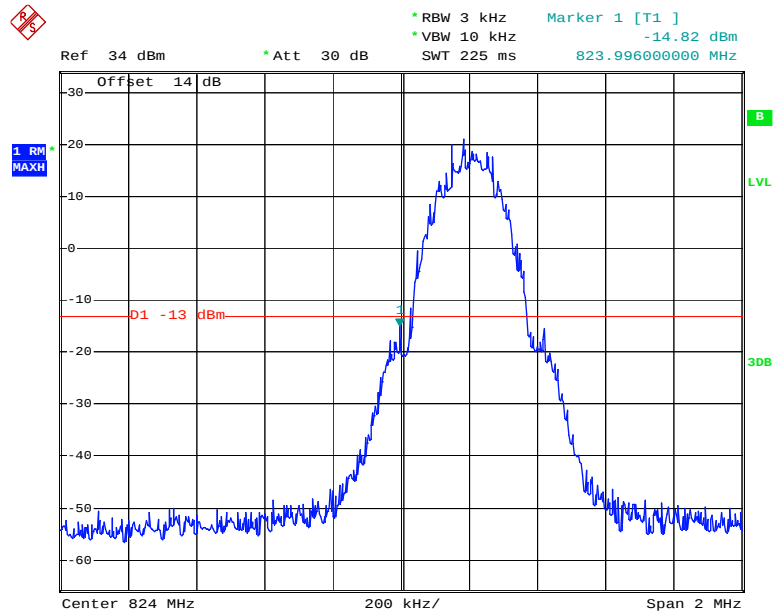
The testing was performed by Dean Liu on 2014-12-20.

Test Mode: Transmitting

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

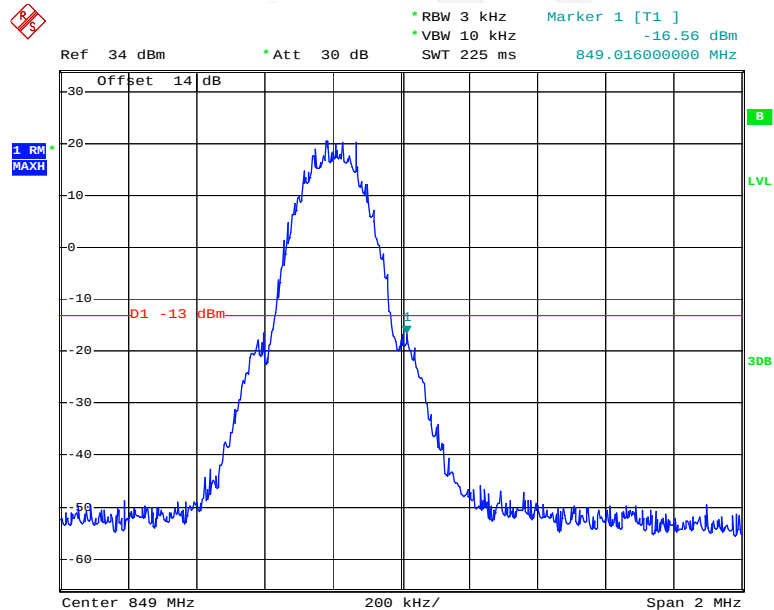
Band	Mode	Band Edge	Reading	Limit
			dBm	dBm
Cellular	GSM	Left	-14.82	≤ -13
		Right	-16.56	≤ -13
PCS	GSM	Left	-16.80	≤ -13
		Right	-16.39	≤ -13
WCDMA Band II	Rel 99	Left	-13.80	≤ -13
		Right	-13.75	≤ -13
	HSDPA	Left	-16.43	≤ -13
		Right	-13.86	≤ -13
	HSUPA	Left	-14.28	≤ -13
		Right	-14.57	≤ -13
WCDMA Band V	Rel 99	Left	-16.96	≤ -13
		Right	-17.48	≤ -13
	HSDPA	Left	-17.07	≤ -13
		Right	-14.81	≤ -13
	HSUPA	Left	-15.67	≤ -13
		Right	-15.58	≤ -13

GSM 850, Left Band Edge



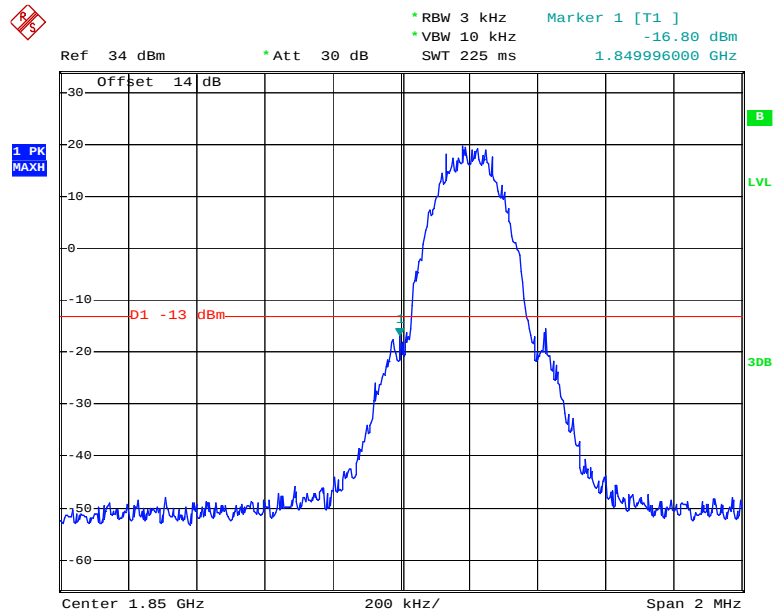
Date: 19.DEC.2014 17:50:35

GSM 850, Right Band Edge



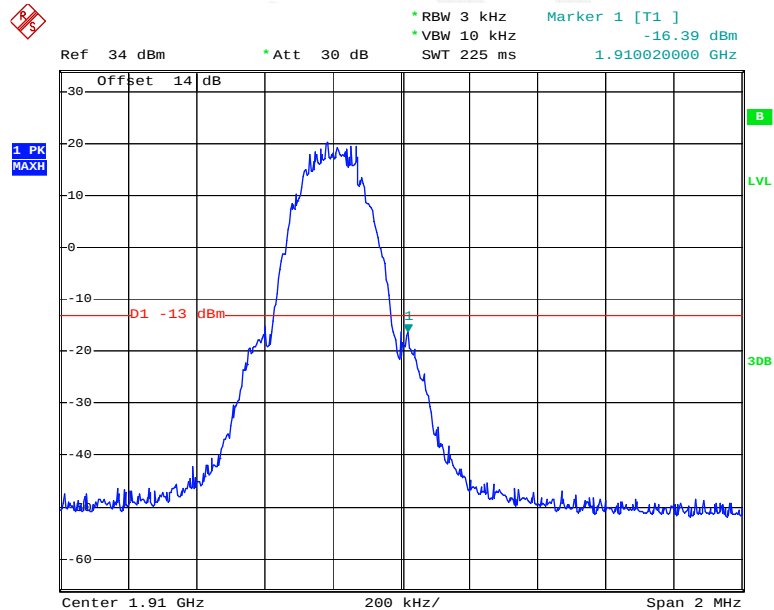
Date: 19.DEC.2014 17:51:36

GSM 1900, Left Band Edge



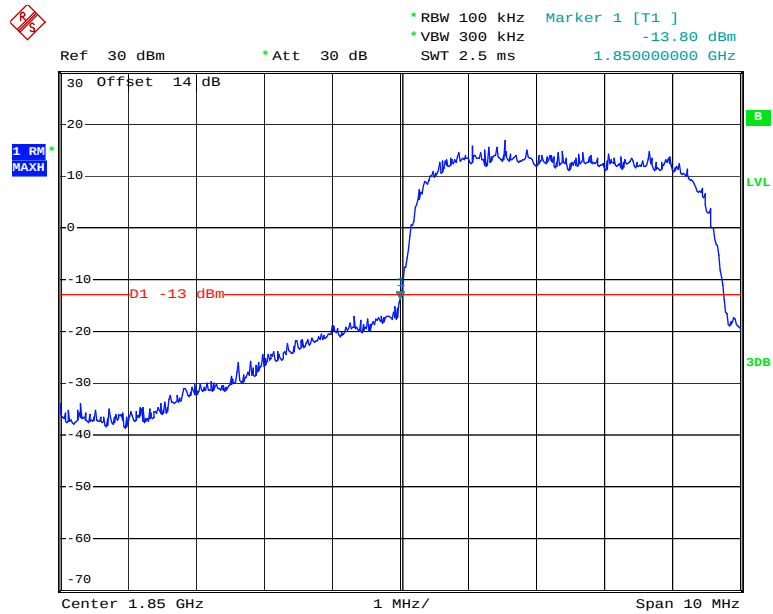
Date: 19.DEC.2014 18:35:06

GSM 1900, Right Band Edge



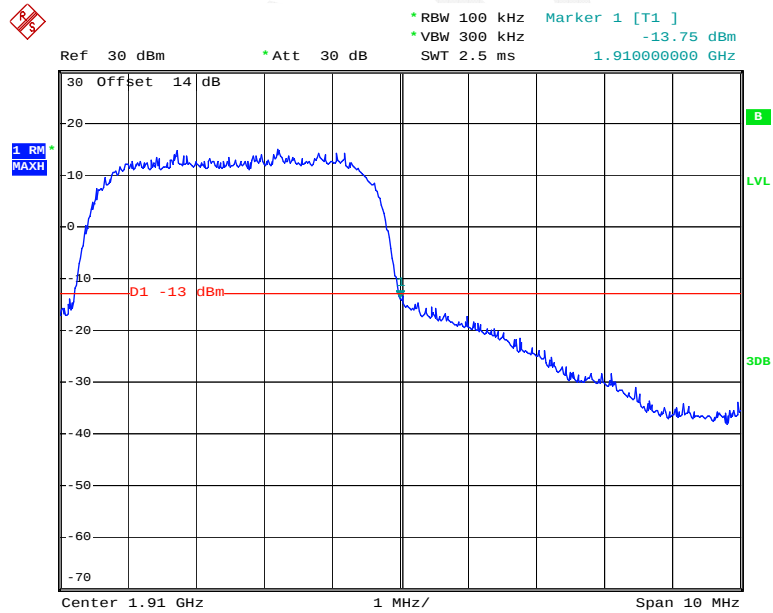
Date: 19.DEC.2014 18:37:18

REL99 Band II, Left Band Edge



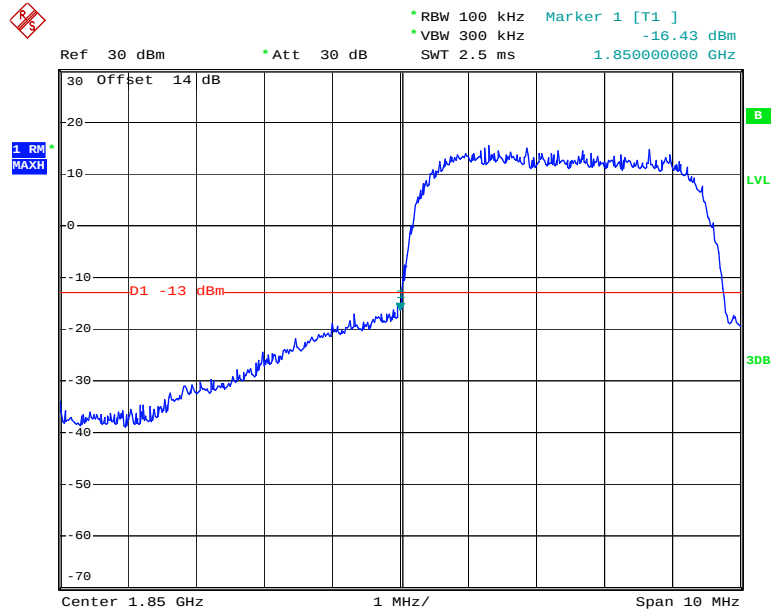
Date: 20.DEC.2014 09:39:11

REL99 Band II, Right Band Edge



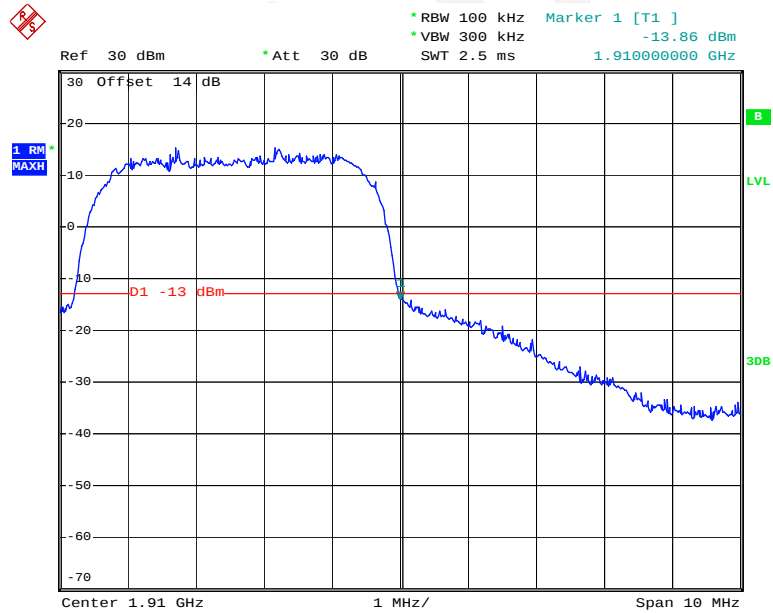
Date: 20.DEC.2014 09:38:00

HSDPA Band II, Left Band Edge



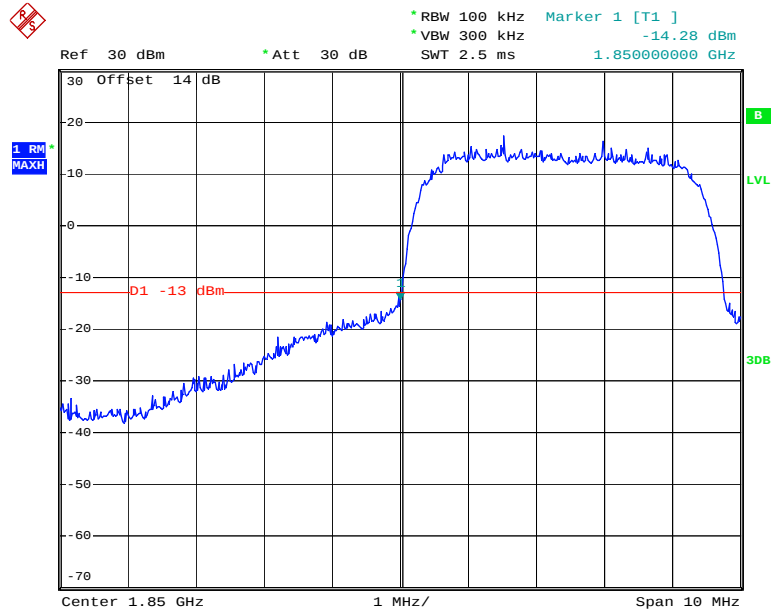
Date: 20.DEC.2014 09:39:08

HSDPA Band II, Right Band Edge



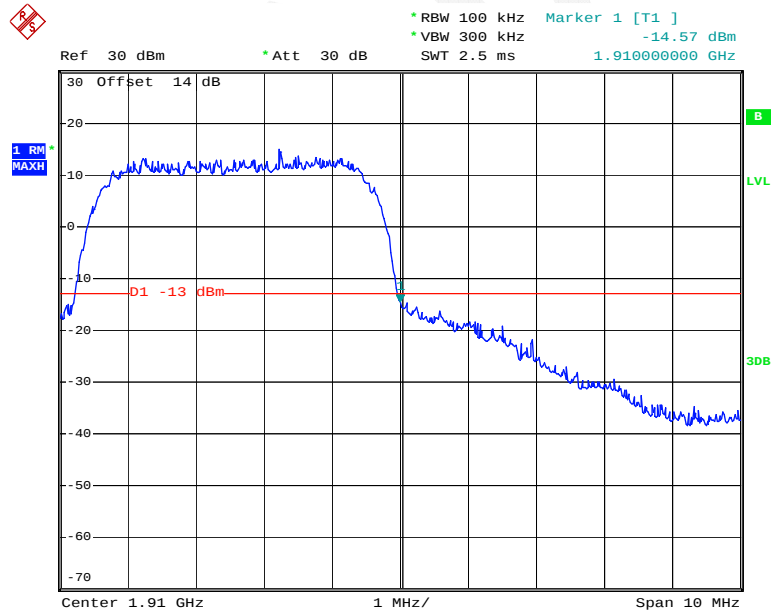
Date: 20.DEC.2014 09:37:22

HSUPA Band II, Left Band Edge



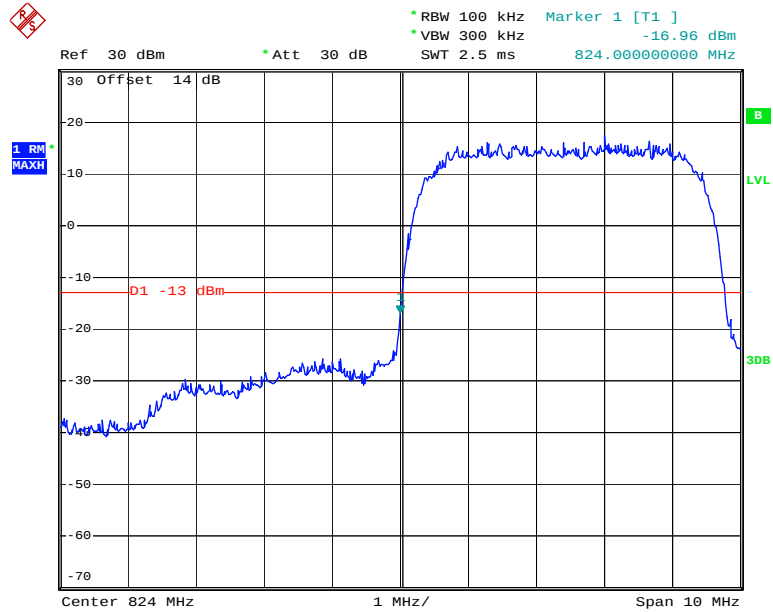
Date: 20.DEC.2014 09:38:44

HSUPA Band II, Right Band Edge



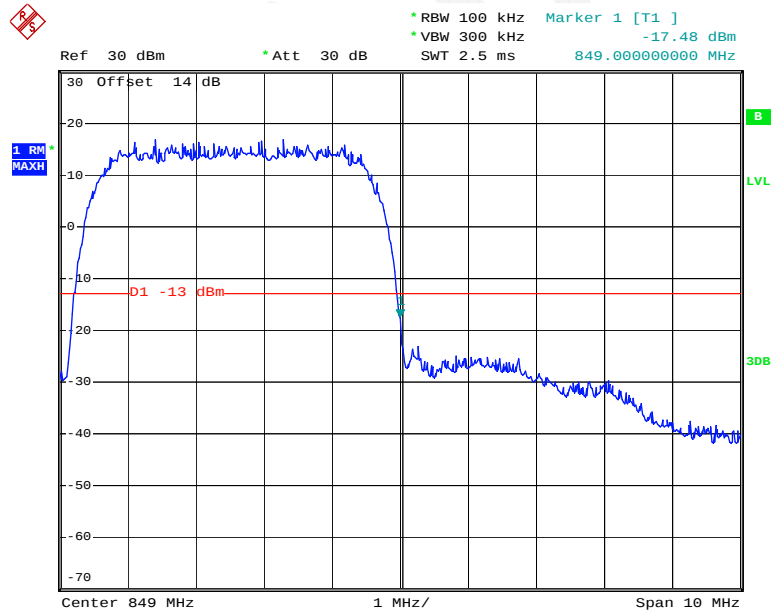
Date: 20.DEC.2014 09:36:31

REL99 Band V, Left Band Edge



Date: 20.DEC.2014 10:23:30

REL99 Band V, Right Band Edge



Date: 20.DEC.2014 10:24:51

Ref 30 dBm * Att 30 dB * RBW 100 kHz Marker 1 [T1] -17.07 dBm
SWT 2.5 ms 824.00000000 MHz

30 Offset 14 dB

1 RM
MAXH

D1 -13 dBm

Marker 1 [T1] -17.07 dBm

824.00000000 MHz

Center 824 MHz 1 MHz/ Span 10 MHz

Ref 30 dBm * Att 30 dB RBW 100 kHz VBW 300 kHz SWT 2.5 ms Marker 1 [T1] -14.81 dBm 849.000000000 MHz

30 Offset 14 dB

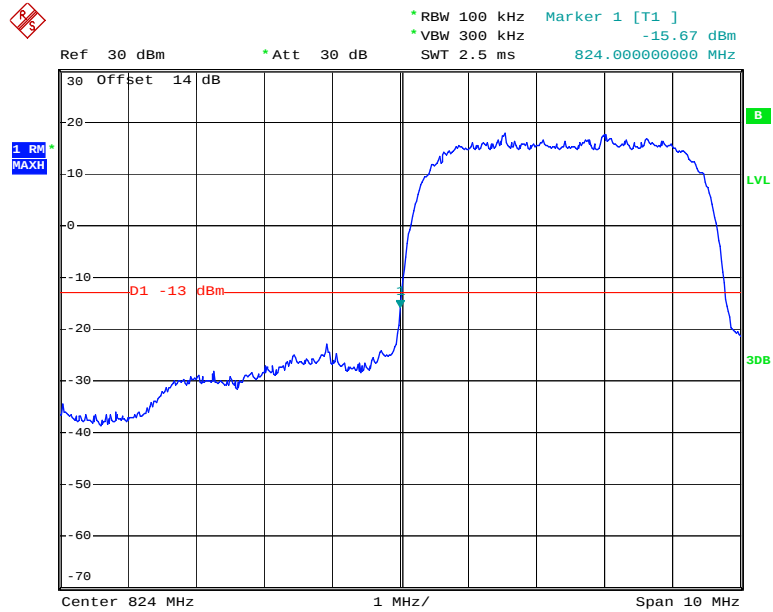
1 RM MAXH

D1 -13 dBm

Center 849 MHz 1 MHz/ Span 10 MHz

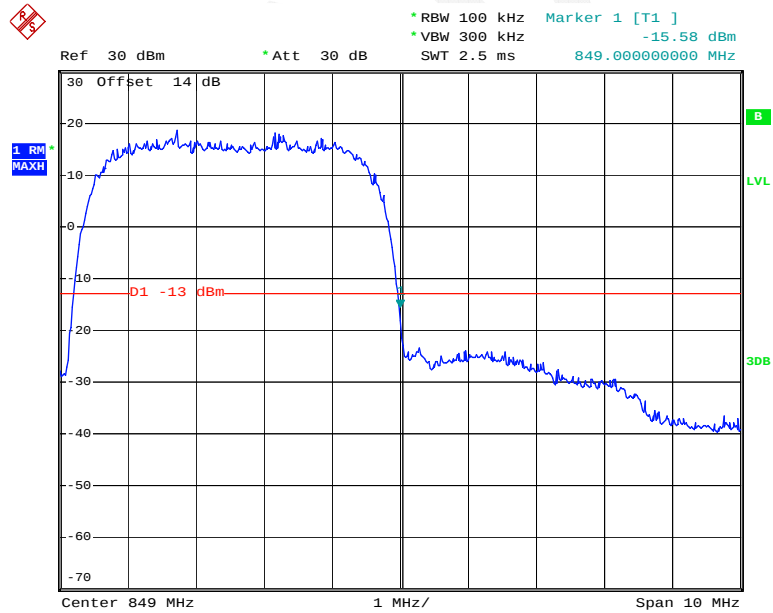
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HSUPA Band V, Left Band Edge



Date: 20.DEC.2014 10:22:43

HSUPA Band V, Right Band Edge



Date: 20.DEC.2014 10:24:34

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

Applicable Standard

FCC § 2.1055 (a), § 2.1055 (d), §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

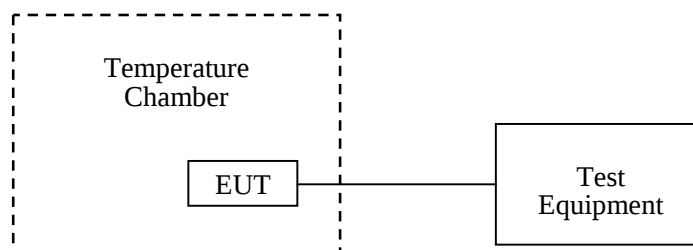
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

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: 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
Dongzhixu	High Temperature Test Chamber	DP1000	201105083-3	2014-08-01	2015-08-01
R&S	Universal Radio Communication Tester	CMU200	109 038	2014-05-09	2015-05-09

* **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:	21.6 °C
Relative Humidity:	37%
ATM Pressure:	101 .9kPa

The testing was performed by Dean Liu on 2014-12-20.

Cellular Band (Part 22H)

GMSK, Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.7	14	0.017	2.5
-20	3.7	8	0.010	2.5
-10	3.7	12	0.014	2.5
0	3.7	11	0.013	2.5
10	3.7	10	0.012	2.5
20	3.7	10	0.012	2.5
30	3.7	9	0.011	2.5
40	3.7	8	0.010	2.5
50	3.7	9	0.011	2.5
25	3.5	6	0.007	2.5
25	4.2	15	0.018	2.5

PCS Band (Part 24E)

GMSK, Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V _{DC}	Hz	ppm	
-30	3.7	40	0.021	Pass
-20	3.7	42	0.022	Pass
-10	3.7	30	0.016	Pass
0	3.7	40	0.021	Pass
10	3.7	31	0.016	Pass
20	3.7	36	0.019	Pass
30	3.7	28	0.015	Pass
40	3.7	41	0.022	Pass
50	3.7	41	0.022	Pass
25	3.5	27	0.014	Pass
25	4.2	42	0.022	Pass

WCDMA Band II

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V _{DC}	Hz	ppm	
-30	3.7	37	0.020	Pass
-20	3.7	41	0.022	Pass
-10	3.7	44	0.023	Pass
0	3.7	39	0.021	Pass
10	3.7	37	0.020	Pass
20	3.7	42	0.022	Pass
30	3.7	33	0.018	Pass
40	3.7	42	0.022	Pass
50	3.7	35	0.019	Pass
25	3.5	32	0.017	Pass
25	4.2	46	0.024	Pass

HSDPA Band II

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V _{DC}	Hz	ppm	
-30	3.7	31	0.016	Pass
-20	3.7	27	0.014	Pass
-10	3.7	25	0.013	Pass
0	3.7	32	0.017	Pass
10	3.7	28	0.015	Pass
20	3.7	29	0.015	Pass
30	3.7	33	0.018	Pass
40	3.7	32	0.017	Pass
50	3.7	30	0.016	Pass
25	3.5	29	0.015	Pass
25	4.2	33	0.018	Pass

HSUPA Band II

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V _{DC}	Hz	ppm	
-30	3.7	27	0.014	Pass
-20	3.7	31	0.016	Pass
-10	3.7	35	0.019	Pass
0	3.7	25	0.013	Pass
10	3.7	29	0.015	Pass
20	3.7	26	0.014	Pass
30	3.7	33	0.018	Pass
40	3.7	31	0.016	Pass
50	3.7	34	0.018	Pass
25	3.5	37	0.020	Pass
25	4.2	29	0.015	Pass

WCDMA Band V

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.7	14	0.017	2.5
-20	3.7	16	0.019	2.5
-10	3.7	19	0.023	2.5
0	3.7	15	0.018	2.5
10	3.7	17	0.020	2.5
20	3.7	11	0.013	2.5
30	3.7	18	0.022	2.5
40	3.7	14	0.017	2.5
50	3.7	16	0.019	2.5
25	3.5	13	0.016	2.5
25	4.2	15	0.018	2.5

HSDPA Band V

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.7	20	0.024	2.5
-20	3.7	18	0.022	2.5
-10	3.7	22	0.026	2.5
0	3.7	25	0.030	2.5
10	3.7	19	0.023	2.5
20	3.7	23	0.027	2.5
30	3.7	24	0.029	2.5
40	3.7	26	0.031	2.5
50	3.7	28	0.033	2.5
25	3.5	27	0.032	2.5
25	4.2	23	0.027	2.5

HSUPA Band V

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.7	23	0.027	2.5
-20	3.7	26	0.031	2.5
-10	3.7	29	0.035	2.5
0	3.7	21	0.025	2.5
10	3.7	19	0.023	2.5
20	3.7	24	0.029	2.5
30	3.7	28	0.033	2.5
40	3.7	31	0.037	2.5
50	3.7	27	0.032	2.5
25	3.5	24	0.029	2.5
25	4.2	22	0.026	2.5

DECLARATION LETTER



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

2014-12-31

Product Similarity Declaration

To Whom It May Concern,

We, DDM Brands LLC, hereby declare that we have a product named as 3G mobile phone (Model number: Andy 5T) was tested by BACL, meanwhile, for our marketing purpose, we would like to list a series models (Andy 5TL, AM5TL043, Andy C5T, Andy C5TL, AC5TL043) 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 dark ink, appearing to be 'LS' or 'Luis Sosa', written over a light blue grid background.

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