

TEST REPORT

Reference No...... : WTD24D08190450W003
FCC ID : 2AEPIKSWK
Applicant..... : COLOMBIANA DE COMERCIO S.A.
Address..... : Car. 43E No 8-71, Medellin, Colombia
Manufacturer : SHENZHEN LAGENIO TECHNOLOGY CO LIMITED
Address..... : Floor 12th, Block B, Longhua Digital Innovation Center, North Station
Community, Minzhi Street, Longhua District, Shenzhen, China
Product..... : Smart Watch
Model(s) : K-SWK
Brand Name..... : Kalley
Standards..... : FCC CFR47 Part 22 Subpart H
FCC CFR47 Part 24 Subpart E
Date of Receipt sample : 2024-08-15
Date of Test : 2024-08-15 to 2024-08-28
Date of Issue..... : 2024-09-13
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD24D08190450W003	2024-08-15	2024-08-15 to 2024-08-28	2024-09-13	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	Smart Watch
Model(s):	K-SWK
Model Description	The product has two appearance colors, blue and pink, other parts are the same. The product is designed with two labels to distinguish different appearance colors, the blue appearance color use K-SWKA label and the pink appearance color use K-SWKR label. The EUT is blue appearance color in this report.
Test Sample No.:	1-1/1
GSM Band(s):	GSM 850/1900MHz
GPRS/EGPRS Class:	12
WCDMA Band(s):	FDD Band II/V
Hardware Version:	ZT05-MB-V2.0
Software Version:	L36G-D_DG-ZT05M20-C90
Storage Location:	Internal Storage

4.2 Details of E.U.T.

Operation Frequency:	GSM/GPRS/EDGE 850: 824~849MHz PCS/GPRS/EDGE 1900: 1850~1910MHz WCDMA Band II: 1850~1910MHz WCDMA Band V: 824~849MHz
Max. RF output power:	GSM 850: 31.95dBm PCS1900: 29.73dBm WCDMA Band II: 22.65dBm WCDMA Band V: 22.10dBm
Type of Modulation:	GSM/GPRS: GMSK EDGE: GMSK, 8PSK WCDMA: BPSK, 16QAM
Antenna installation:	GSM/WCDMA: PIFA Antenna
Antenna Gain:	GSM 850: -11.73dBi PCS1900: -5.01dBi WCDMA Band II: -5.01dBi WCDMA Band V: -11.73dBi

Note:

#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTEK lab has not verified the authenticity of its information.

Ratings: Battery: DC 3.8V, 680mAh, 2.584Wh
DC 5V charging from USB

Type of Emission: GSM850: 248KGXW, GPRS850: 248KGXW, EGPRS850: 252KG7W
PCS1900: 245KGXW, GPRS1900: 247KGXW, EGPRS1900: 241KG7W
WCDMA1900: 4M14F9W
WCDMA850: 4M14F9W

4.3 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Support Band	Test Mode	Channel Frequency	Channel Number
GSM 850	GSM/GPRS/EDGE	824.2 MHz	128
		836.6 MHz	190
		848.8 MHz	251
PCS 1900	GSM/GPRS/EDGE	1850.2 MHz	512
		1880.0 MHz	661
		1909.8 MHz	810
WCDMA Band V	WCDMA/HSUPA/HSDPA	826.4 MHz	4132
		836.6 MHz	4183
		846.6 MHz	4233
WCDMA Band II	WCDMA/HSUPA/HSDPA	1852.4MHz	9262
		1880.0MHz	9400
		1907.6MHz	9538
Remark: All mode(s) were tested and the worst data was recorded.			

4.4 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

5 Test Summary

Test Items	Test Requirement	Result
RF Output Power	2.1046 22.913 (a) 24.232 (c)	PASS
Peak-to-Average Ratio	24.232 (d)	PASS
Bandwidth	2.1049 22.905 22.917 24.238	PASS
Spurious Emissions at Antenna Terminal	2.1051 22.917 (a) 24.238 (a)	PASS
Field Strength of Spurious Radiation	2.1053 22.917 (a) 24.238 (a)	PASS
Out of band emission, Band Edge	22.917 (a) 24.238 (a)	PASS
Frequency Stability	2.1055 22.355 24.235	PASS
Maximum Permissible Exposure (SAR)	1.1307	PASS

6 Equipment Used during Test

6.1 Equipments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date	Calibration Due Date
3m Semi-anechoic Chamber for Radiation Emissions 1#						
1	Spectrum Analyzer	R&S	FSP30	100091	2024-04-22	2025-04-21
2	Amplifier	Agilent	8447D	2944A10178	2024-07-18	2025-07-17
3	Tri-log Broadband Antenna	SCHWARZBECK	VULB9163	336	2024-07-21	2025-07-20
4	Coaxial Cable	Top	TYPE16(13M)	-	2024-04-22	2025-04-21
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120D	667	2024-01-23	2025-01-22
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2024-07-18	2025-07-17
7	Broadband Preamplifier	COMPLIANCE	PAP-1G18	2004	2024-07-18	2025-07-17
8	Coaxial Cable	Top	ZT26-NJ-NJ-8M/FA	-	2024-04-22	2025-04-21
9	Microwave Amplifier	SCHWARZBECK	BBV 9721	100472	2024-07-18	2025-07-17
10	Coaxial Cable	Top	ZT40-2.92J-2.92J-2.0M	17100919	2024-04-22	2025-04-21
3m Semi-anechoic Chamber for Radiation Emissions 2#						
1	Test Receiver	R&S	ESCI	101296	2024-04-22	2025-04-21
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2023-11-04	2024-11-03
3	Active Loop Antenna	Com-Power	AL-130R	10160007	2024-04-27	2025-04-26
4	Amplifier	ANRITSU	MH648A	M43381	2024-04-22	2025-04-21
5	Cable	HUBER+SUHNER	CBL2	525178	2024-04-22	2025-04-21
RF Conducted Testing						
1	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	2024-04-22	2025-04-21
2	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	2024-04-22	2025-04-21
3.	Universal Radio Communication Tester	R&S	CMU 200	121315	2024-04-22	2025-04-21
4	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	2024-04-22	2025-04-21
5	Universal Radio Communication Tester	R&S	CMW 500	127818	2024-04-22	2025-04-21

Test Software:

Test Item	Software name	Software version
Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)

6.2 Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission	± 3.64 dB(AC mains 150KHz~30MHz)
Radiated Spurious Emissions	± 5.08 dB (Bilog antenna 30M~1000MHz)
	± 5.47 dB (Horn antenna 1000M~25000MHz)
Radio Frequency	± 1 x 10 ⁻⁷ Hz
RF Power	± 0.42 dB
RF Power Density	± 0.7dB
Conducted Spurious Emissions	± 2.76 dB (9kHz~26500MHz)
Confidence interval: 95%. Confidence factor:k=2	

7 RF Output Power

Test Requirement:	FCC Part 2.1046, 22.913 (a), 24.232 (c)
Test Method:	ANSI/TIA-603-E:2016 ANSI C63.26:2015
Test Mode:	TX transmitting

7.1 EUT Operation

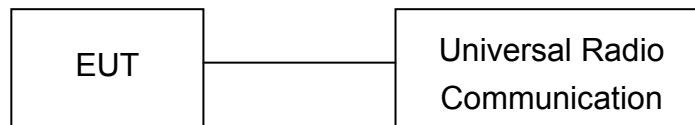
Operating Environment :

Temperature:	25.4 °C
Humidity:	58.1 % RH
Atmospheric Pressure:	101.2kPa

7.2 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:

1. The setup of EUT is according with per TIA/EIA Standard 603D.
2. 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.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. 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.

7.3 Test Result

Conducted Power

GSM - Burst Average Power (dBm)						
Band	GSM850			PCS1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
GSM	31.95	31.95	31.92	29.46	29.54	29.66
GPRS (1 slot)	31.89	31.93	31.94	29.49	29.56	29.73
GPRS (2 slots)	30.82	30.75	30.48	28.34	28.36	28.34
GPRS (3 slots)	29.56	29.65	29.57	27.54	27.38	27.51
GPRS (4 slots)	28.34	28.54	28.64	26.35	26.11	26.32
EGPRS (1 slot)	25.20	25.54	25.08	24.80	25.02	24.69
EGPRS (2 slots)	24.16	24.38	23.84	23.54	23.86	23.25
EGPRS (3 slots)	23.54	23.27	22.58	22.58	22.15	22.61
EGPRS (4 slots)	22.84	22.54	21.69	21.49	21.53	21.82

WCDMA - Average Power (dBm)						
Band	WCDMA Band II			WCDMA Band V		
Channel	9262	9400	9538	4132	4183	4233
Frequency (MHz)	1852.4	1880	1907.6	826.4	836.6	846.6
RMC 12.2k	22.48	22.55	22.65	22.07	22.09	22.10
HSDPA Subtest-1	22.15	22.11	22.10	21.56	21.26	21.74
HSDPA Subtest-2	21.91	21.87	21.88	21.28	20.94	21.37
HSDPA Subtest-3	21.56	21.51	21.49	20.93	20.58	21.09
HSDPA Subtest-4	21.13	21.09	21.05	20.60	20.25	20.74
HSUPA Subtest-1	22.05	22.24	22.06	21.68	21.20	21.80
HSUPA Subtest-2	21.85	21.98	21.87	21.34	20.87	21.51
HSUPA Subtest-3	21.58	21.70	21.61	21.01	20.59	21.22
HSUPA Subtest-4	21.16	21.33	21.18	20.76	20.35	20.98
HSUPA Subtest-5	20.92	21.15	20.95	20.48	20.03	20.66

Radiated Power

ERP and EIRP

Cellular Band 850 (Part 22H)

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 22H	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
GSM 850 Channel 128										
824.20	87.56	275	1.2	H	20.53	0.20	0.00	20.33	38.45	-18.12
824.20	87.46	198	1.9	V	20.36	0.20	0.00	20.16	38.45	-18.29
GSM 850 Channel 190										
836.60	87.50	330	1.5	H	20.47	0.20	0.00	20.27	38.45	-18.18
836.60	87.51	46	2.5	V	20.41	0.20	0.00	20.21	38.45	-18.24
GSM 850 Channel 251										
848.80	87.22	232	1.3	H	20.19	0.20	0.00	19.99	38.45	-18.46
848.80	87.55	128	2.0	V	20.45	0.20	0.00	20.25	38.45	-18.20
GPRS 850 Channel 128										
824.20	87.18	242	1.5	H	20.15	0.20	0.00	19.95	38.45	-18.50
824.20	87.23	265	1.2	V	20.13	0.20	0.00	19.93	38.45	-18.52
GPRS 850 Channel 190										
836.60	87.20	265	1.7	H	20.17	0.20	0.00	19.97	38.45	-18.48
836.60	87.18	100	2.3	V	20.08	0.20	0.00	19.88	38.45	-18.57
GPRS 850 Channel 251										
848.80	87.20	196	1.9	H	20.17	0.20	0.00	19.97	38.45	-18.48
848.80	87.36	127	1.8	V	20.26	0.20	0.00	20.06	38.45	-18.39
EGPRS 850 Channel 128										
824.20	85.74	318	1.1	H	18.71	0.20	0.00	18.51	38.45	-19.94
824.20	85.30	207	1.1	V	18.20	0.20	0.00	18.00	38.45	-20.45
EGPRS 850 Channel 190										
836.60	85.42	111	2.2	H	18.39	0.20	0.00	18.19	38.45	-20.26
836.60	85.51	316	2.2	V	18.41	0.20	0.00	18.21	38.45	-20.24
EGPRS 850 Channel 251										
848.80	85.37	218	1.2	H	18.34	0.20	0.00	18.14	38.45	-20.31
848.80	85.69	341	1.6	V	18.59	0.20	0.00	18.39	38.45	-20.06

Cellular Band 1900 (Part 24E)

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 24E	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
PCS 1900 Channel 512										
1850.20	87.75	193	2.0	H	13.78	0.31	10.40	23.87	33	-9.13
1850.20	87.59	34	2.4	V	14.31	0.31	10.40	24.40	33	-8.60
PCS 1900 Channel 661										
1880.00	87.60	112	1.5	H	13.75	0.31	10.40	23.84	33	-9.16
1880.00	87.25	264	1.2	V	14.13	0.31	10.40	24.22	33	-8.78
PCS 1900 Channel 810										
1909.80	87.31	136	2.0	H	13.58	0.32	10.40	23.66	33	-9.34
1909.80	87.54	97	2.3	V	14.58	0.32	10.40	24.66	33	-8.34
GPRS 1900 Channel 512										
1850.20	87.73	52	1.2	H	13.76	0.31	10.40	23.85	33	-9.15
1850.20	87.71	329	1.8	V	14.43	0.31	10.40	24.52	33	-8.48
GPRS 1900 Channel 661										
1880.00	87.34	330	1.3	H	13.49	0.31	10.40	23.58	33	-9.42
1880.00	87.43	162	1.2	V	14.31	0.31	10.40	24.40	33	-8.60
GPRS 1900 Channel 810										
1909.80	87.53	222	1.5	H	13.80	0.32	10.40	23.88	33	-9.12
1909.80	87.36	37	1.2	V	14.40	0.32	10.40	24.48	33	-8.52
EGPRS 1900 Channel 512										
1850.20	85.61	260	1.0	H	11.64	0.31	10.40	21.73	33	-11.27
1850.20	85.60	132	1.8	V	12.32	0.31	10.40	22.41	33	-10.59
EGPRS 1900 Channel 661										
1880.00	85.38	219	1.2	H	11.53	0.31	10.40	21.62	33	-11.38
1880.00	85.39	241	1.9	V	12.27	0.31	10.40	22.36	33	-10.64
EGPRS 1900 Channel 810										
1909.80	85.56	20	1.6	H	11.83	0.32	10.40	21.91	33	-11.09
1909.80	85.59	44	1.7	V	12.63	0.32	10.40	22.71	33	-10.29

WCDMA Band V (Part 22H)

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 22H	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
WCDMA Band V Voice Channel 4132										
826.40	84.48	250	1.7	H	17.45	0.20	0.00	17.25	38.45	-21.20
826.40	83.50	205	2.0	V	16.40	0.20	0.00	16.20	38.45	-22.25
WCDMA Band V Voice Channel 4183										
836.60	84.54	72	2.2	H	17.51	0.20	0.00	17.31	38.45	-21.14
836.60	84.90	32	1.0	V	17.80	0.20	0.00	17.60	38.45	-20.85
WCDMA Band V Voice Channel 4233										
846.60	84.97	312	1.5	H	17.94	0.20	0.00	17.74	38.45	-20.71
846.60	84.43	76	1.1	V	17.33	0.20	0.00	17.13	38.45	-21.32
WCDMA Band V HSDPA Channel 4132										
826.40	83.77	265	1.8	H	16.74	0.20	0.00	16.54	38.45	-21.91
826.40	84.96	315	1.7	V	17.86	0.20	0.00	17.66	38.45	-20.79
WCDMA Band V HSDPA Channel 4183										
836.60	83.72	358	2.4	H	16.69	0.20	0.00	16.49	38.45	-21.96
836.60	83.78	50	2.3	V	16.68	0.20	0.00	16.48	38.45	-21.97
WCDMA Band V HSDPA Channel 4233										
846.60	83.82	17	1.6	H	16.79	0.20	0.00	16.59	38.45	-21.86
846.60	83.78	143	1.1	V	16.68	0.20	0.00	16.48	38.45	-21.97
WCDMA Band V HSUPA Channel 4132										
826.40	82.77	327	1.6	H	15.74	0.20	0.00	15.54	38.45	-22.91
826.40	82.53	163	1.7	V	15.43	0.20	0.00	15.23	38.45	-23.22
WCDMA Band V HSUPA Channel 4183										
836.60	82.94	211	2.4	H	15.91	0.20	0.00	15.71	38.45	-22.74
836.60	82.86	180	2.1	V	15.76	0.20	0.00	15.56	38.45	-22.89
WCDMA Band V HSUPA Channel 4233										
846.60	82.56	290	1.4	H	15.53	0.20	0.00	15.33	38.45	-23.12
846.60	82.71	184	2.3	V	15.61	0.20	0.00	15.41	38.45	-23.04

WCDMA Band II (Part 24E)

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 24E	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
WCDMA Band II Voice Channel 9262										
1852.40	74.68	354	2.2	H	0.71	0.31	10.40	10.80	33	-22.20
1852.40	73.90	244	1.3	V	0.62	0.31	10.40	10.71	33	-22.29
WCDMA Band II Voice Channel 9400										
1880.00	74.30	261	1.2	H	0.57	0.32	10.40	10.65	33	-22.35
1880.00	73.46	311	1.2	V	0.50	0.32	10.40	10.58	33	-22.42
WCDMA Band II Voice Channel 9538										
1907.60	74.27	236	1.6	H	0.42	0.31	10.40	10.51	33	-22.49
1907.60	73.93	200	1.1	V	0.81	0.31	10.40	10.90	33	-22.10
WCDMA Band II HSDPA Channel 9262										
1852.40	73.20	40	1.8	H	-0.77	0.31	10.40	9.32	33	-23.68
1852.40	73.60	317	2.3	V	0.32	0.31	10.40	10.41	33	-22.59
WCDMA Band II HSDPA Channel 9400										
1880.00	73.20	10	1.4	H	-0.65	0.31	10.40	9.44	33	-23.56
1880.00	73.22	171	2.0	V	0.10	0.31	10.40	10.19	33	-22.81
WCDMA Band II HSDPA Channel 9538										
1907.60	73.56	128	1.3	H	-0.17	0.32	10.40	9.91	33	-23.09
1907.60	73.49	229	1.5	V	0.53	0.32	10.40	10.61	33	-22.39
WCDMA Band II HSUPA Channel 9262										
1852.40	72.38	102	1.7	H	-1.59	0.31	10.40	8.50	33	-24.50
1852.40	72.62	94	2.4	V	-0.66	0.31	10.40	9.43	33	-23.57
WCDMA Band II HSUPA Channel 9400										
1880.00	72.27	286	1.3	H	-1.58	0.31	10.40	8.51	33	-24.49
1880.00	72.49	171	2.4	V	-0.63	0.31	10.40	9.46	33	-23.54
WCDMA Band II HSUPA Channel 9538										
1907.60	72.55	262	1.9	H	-1.18	0.32	10.40	8.90	33	-24.10
1907.60	72.58	23	1.5	V	-0.38	0.32	10.40	9.70	33	-23.30

8 Peak-to-Average Ratio

Test Requirement:	24.232 (d)
Test Method:	N/A
Test Mode:	TX transmitting

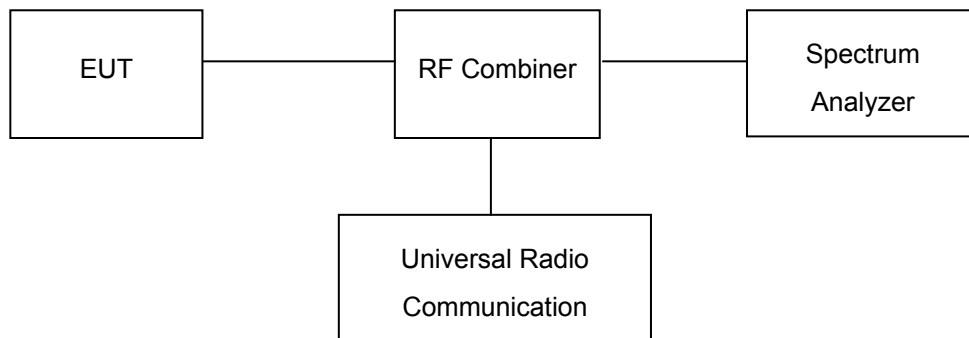
8.1 EUT Operation

Operating Environment :

Temperature:	25.4 °C
Humidity:	58.1 % RH
Atmospheric Pressure:	101.2kPa

8.2 Test Procedure

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. Set EUT to transmit at maximum output power.
3. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.



8.3 Test Result

Cellular Band (Part 24E)

Remark: All test data were reported and only the worst case (middle channel mode) test graphs were showed in test report.

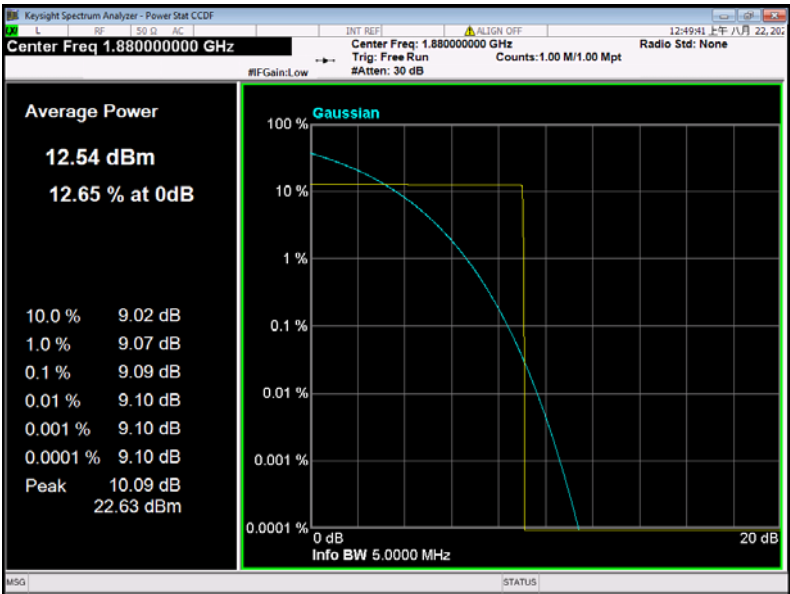
Mode	PCS 1900			GPRS 1900			EDGE 1900			Limit (dB)
Channel	512	661	810	512	661	810	512	661	810	
Frequency (MHz)	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8	
Peak-to-Average Ratio (dB)	8.95	9.09	9.04	9.73	9.87	9.59	12.42	12.66	12.60	13

Cellular Band (Part 24E)

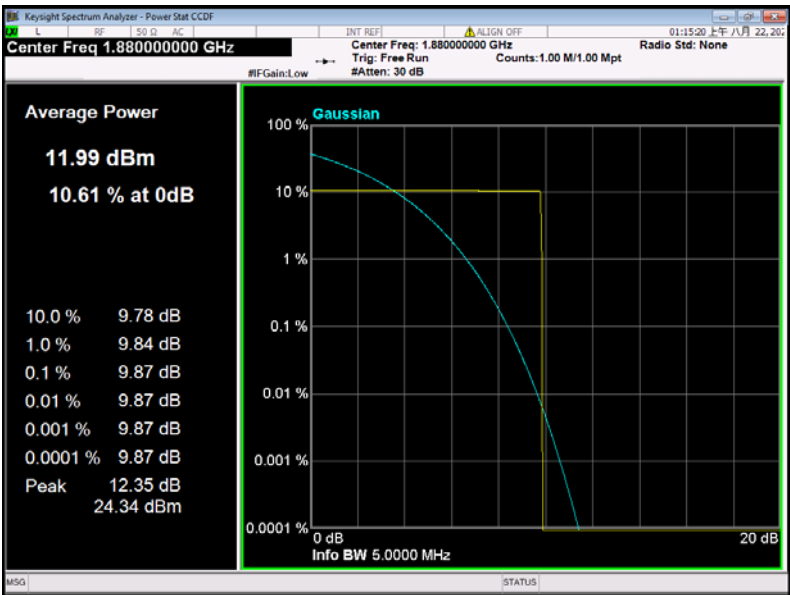
Mode	WCDMA Band II			Limit (dB)
Channel	9262	9400	9538	
Frequency (MHz)	1852.4	1880.0	1907.6	
Peak-to-Average Ratio (dB)	3.59	3.61	2.68	13

Test Plots (Part 24E)

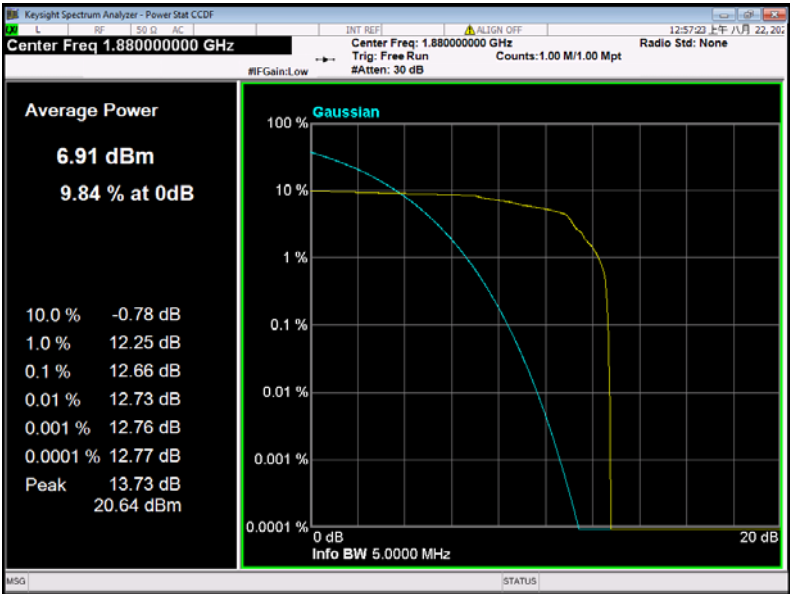
PCS1900 Middle Channel



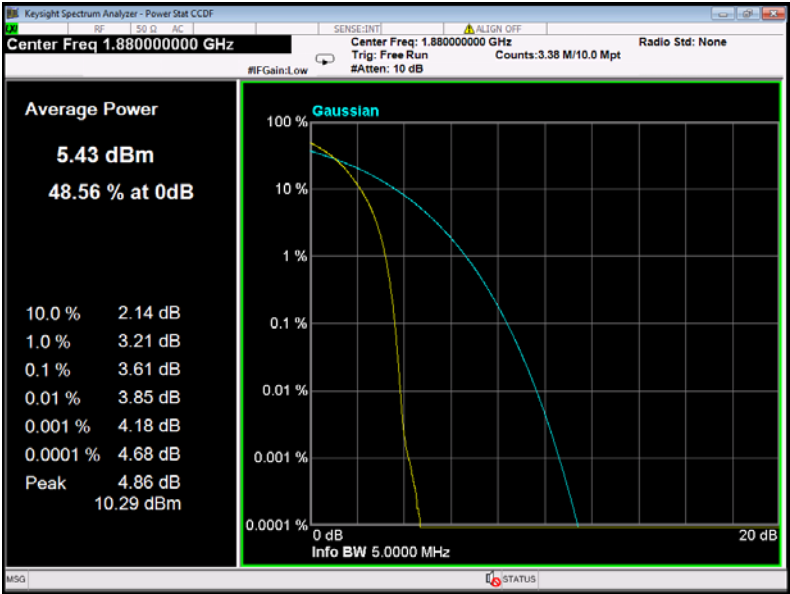
GPRS 1900 Middle Channel



EDGE 1900 Middle Channel



WCDMA Band II Middle Channel



9 Bandwidth

Test Requirement: FCC Part 2.1049, 22.917, 22.905, 24.238

Test Method: ANSI/TIA-603-E:2016

ANSI C63.26:2015

Test Mode: TX transmitting

9.1 EUT Operation

Operating Environment :

Temperature: 25.4 °C

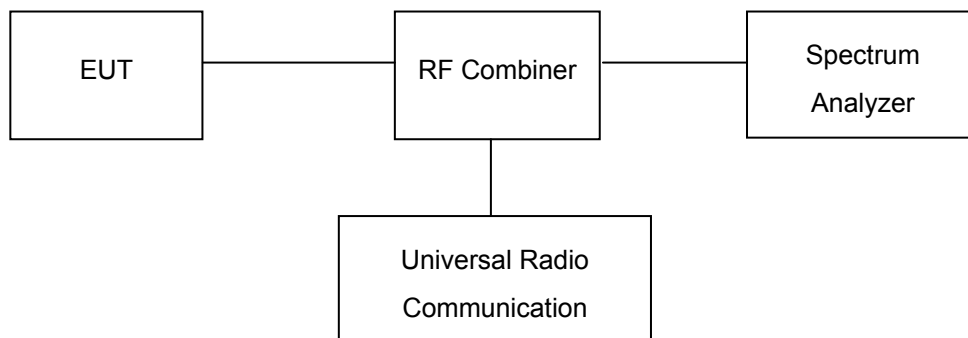
Humidity: 58.1 % RH

Atmospheric Pressure: 101.2kPa

9.2 Test Procedure

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

The resolution bandwidth of the spectrum analyzer was set in the range of 1 to 5 % of the anticipated OBW (Cellular /PCS) and the 26 dB & 99%bandwidth was recorded.



9.3 Test Result

Remark: All test data were reported and only the worst case (middle channel mode) test graphs were showed in test report.

Cellular Band (Part 22H)

Test Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth(kHz)	26 dB Emission Bandwidth(kHz)
GSM 850	128	824.2	248.36	317.1
	190	836.6	248.37	317.2
	251	848.8	248.35	317.0
GPRS 850	128	824.2	248.40	315.0
	190	836.6	248.42	315.1
	251	848.8	248.38	314.9
EGPRS 850	128	824.2	252.23	308.8
	190	836.6	252.25	308.8
	251	848.8	252.20	308.7

Test Mode		Channel	Frequency (MHz)	99% Occupied Bandwidth(MHz)	26 dB Emission Bandwidth(MHz)
WCDMA Band V	RMC12.2k	4132	826.4	4.07	4.64
		4183	836.6	4.11	4.66
		4233	846.6	4.10	4.65
	HSDPA(16QAM)	4132	826.4	4.13	4.67
		4183	836.6	4.14	4.68
		4233	846.6	4.10	4.66
	HSUPA(BPSK)	4132	826.4	4.12	4.67
		4183	836.6	4.14	4.68
		4233	846.6	4.13	4.68

Cellular Band (Part 24E)

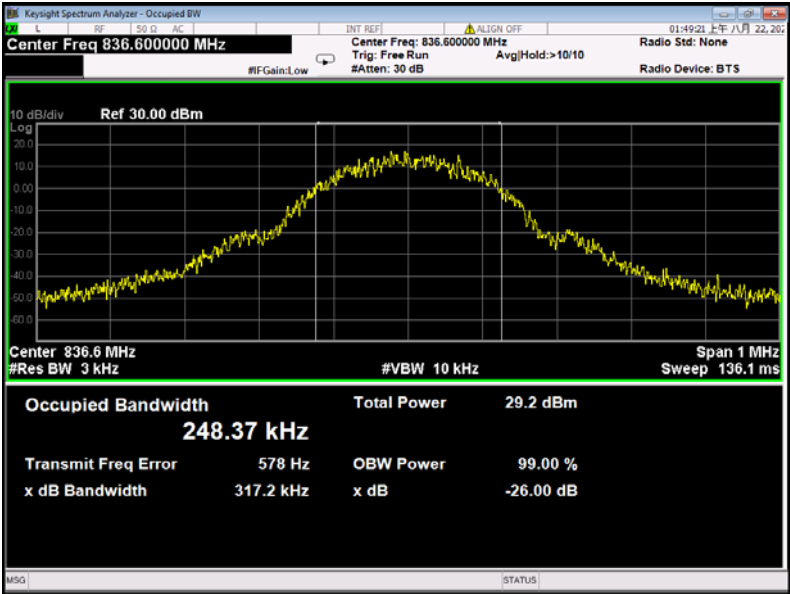
Test Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth(kHz)	26 dB Emission Bandwidth(kHz)
PCS 1900	512	1850.2	245.22	311.9
	661	1880.0	245.24	311.9
	810	1909.8	245.19	311.8
GPRS 1900	512	1850.2	246.61	312.4
	661	1880.0	246.63	312.4
	810	1909.8	246.57	312.3
EGPRS 1900	512	1850.2	240.76	312.0
	661	1880.0	240.81	312.1
	810	1909.8	240.80	312.1

Test Mode		Channel	Frequency (MHz)	99% Occupied Bandwidth(MHz)	26 dB Emission Bandwidth(MHz)
WCDMA Band II	RMC12.2k	9262	1852.4	4.12	4.69
		9400	1880.0	4.13	4.70
		9538	1907.6	4.11	4.69
	HSDPA(16QAM)	9262	1852.4	4.11	4.69
		9400	1880.0	4.14	4.70
		9538	1907.6	4.10	4.69
	HSUPA(BPSK)	9262	1852.4	4.09	4.69
		9400	1880.0	4.13	4.70
		9538	1907.6	4.12	4.70

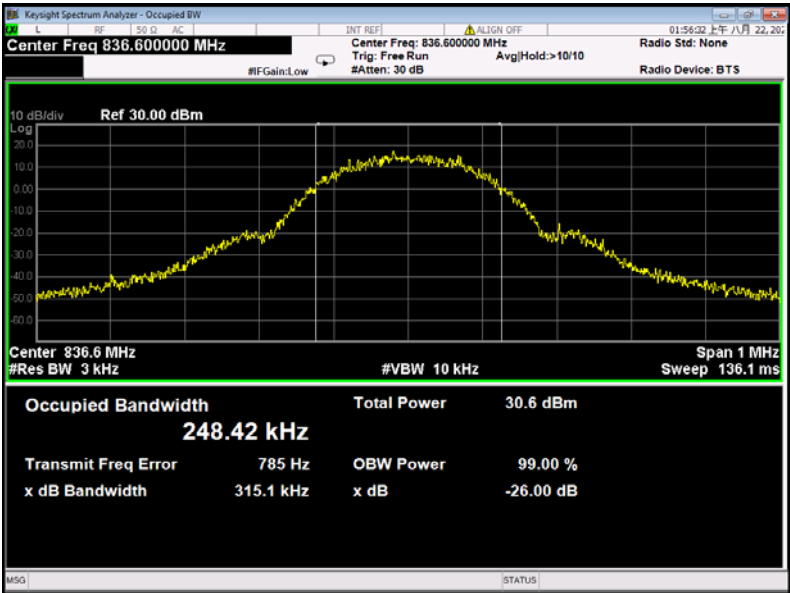
Test Plots (worst case)

Cellular Band (Part 22H)

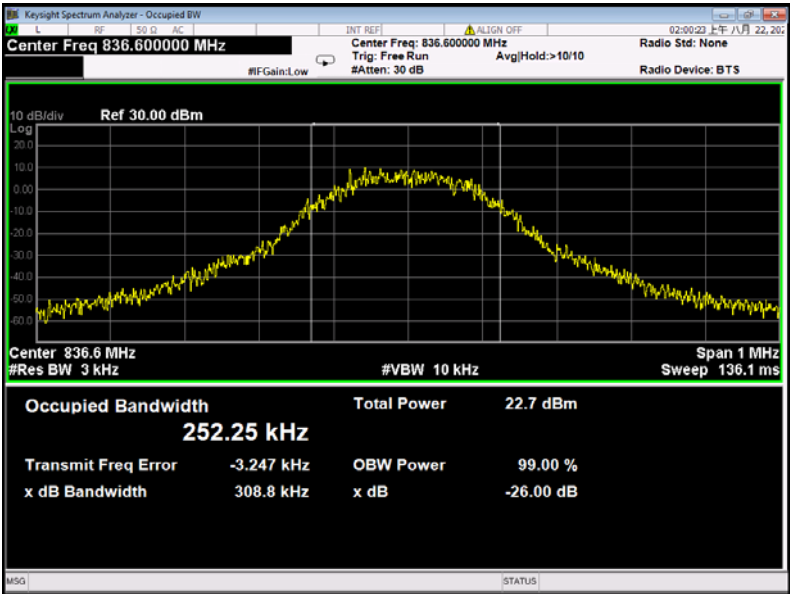
GSM 850



GPRS 850

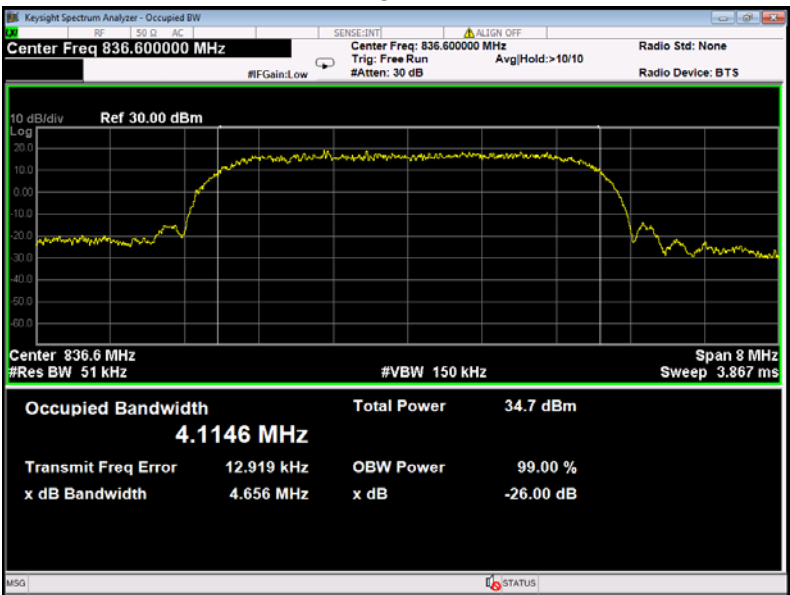


EGPRS 850

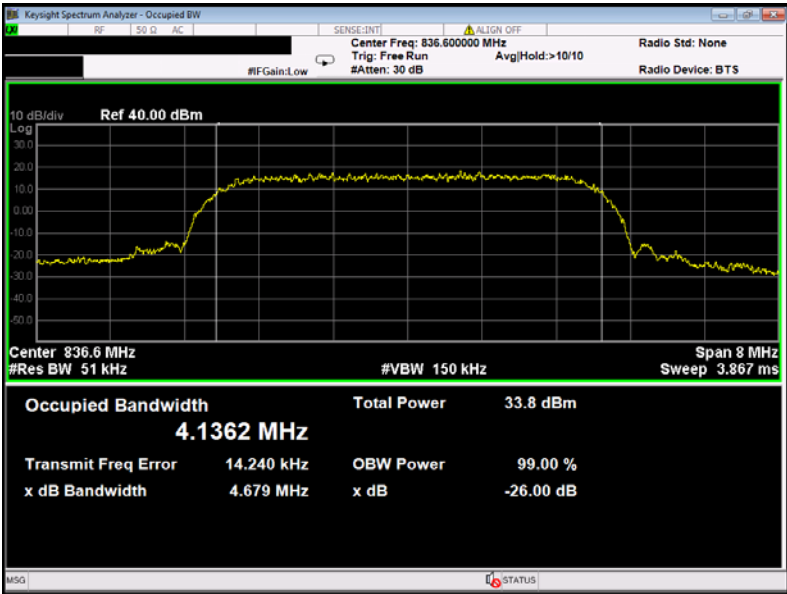


WCDMA band V

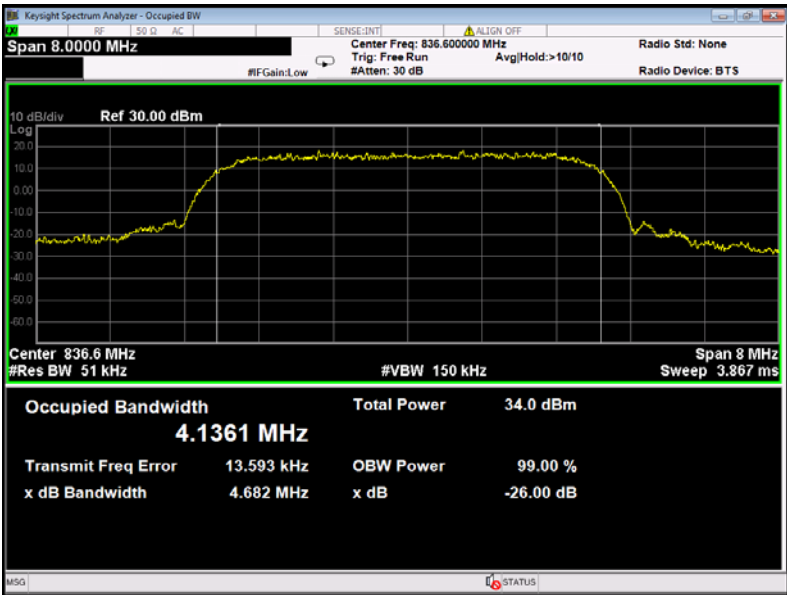
RMC12.2k



HSDPA

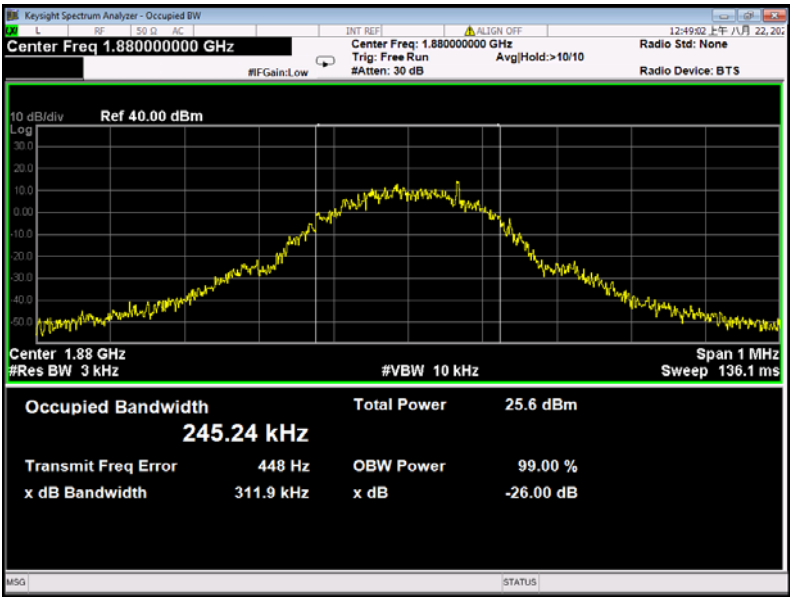


HSUPA

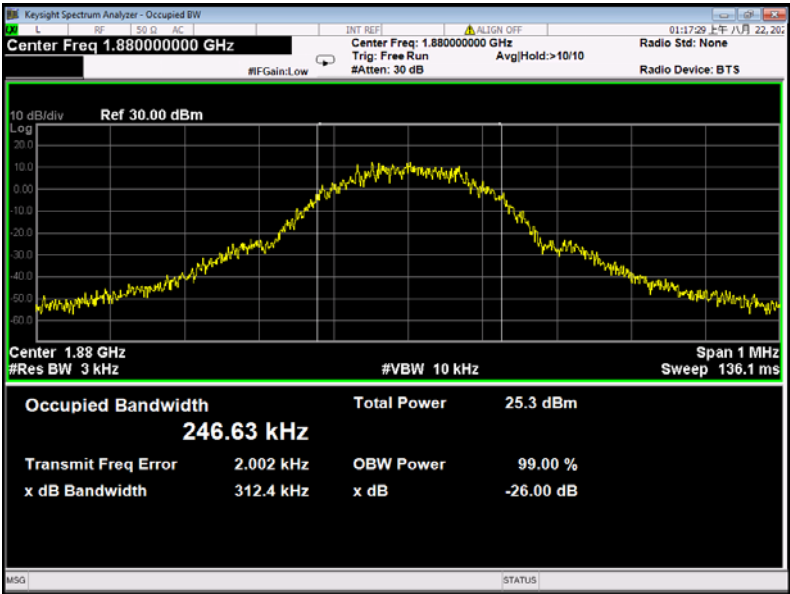


Cellular Band (Part 24E)

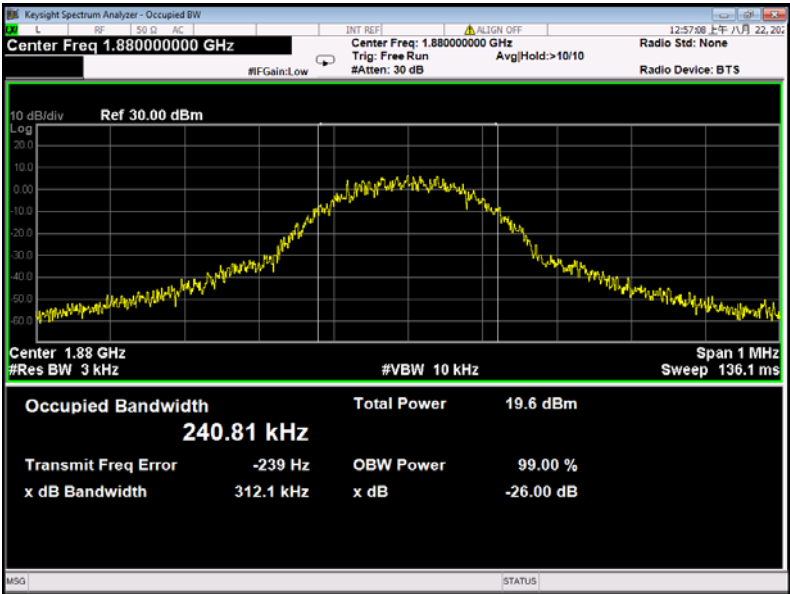
PCS 1900



GPRS 1900

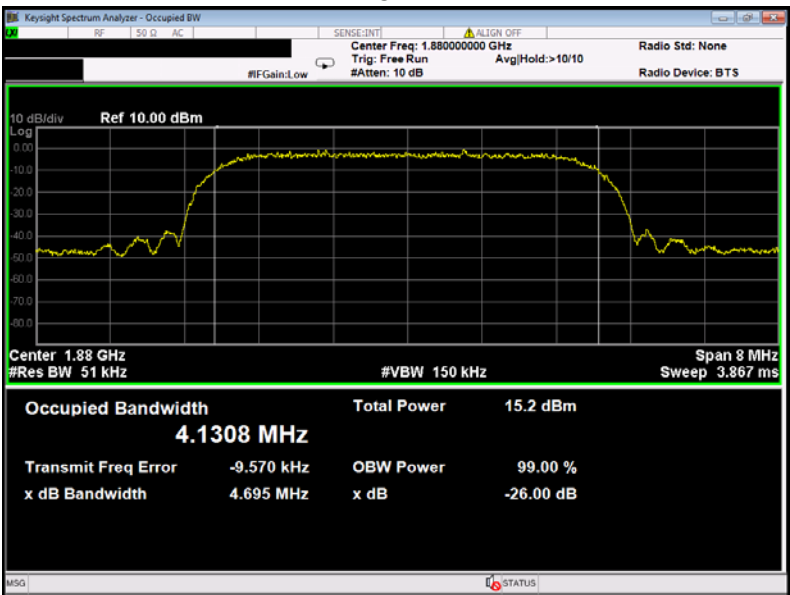


EGPRS 1900

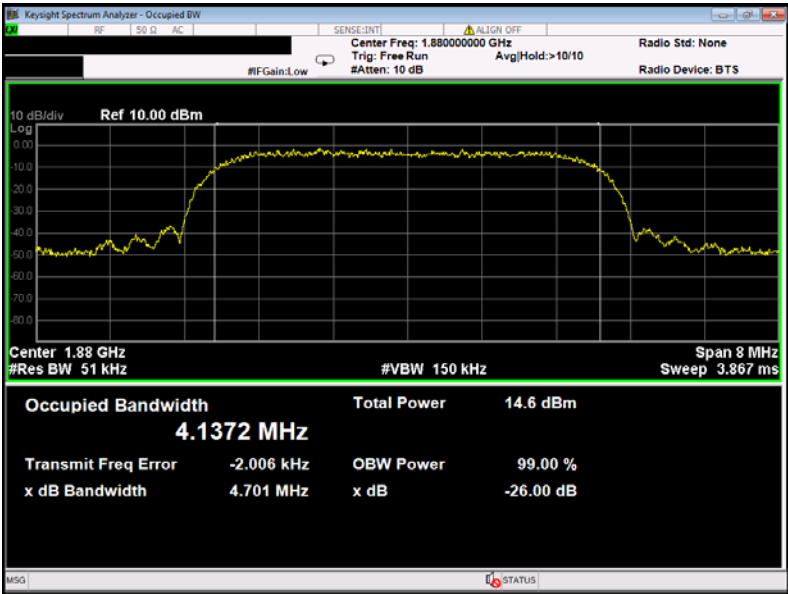


WCDMA band II

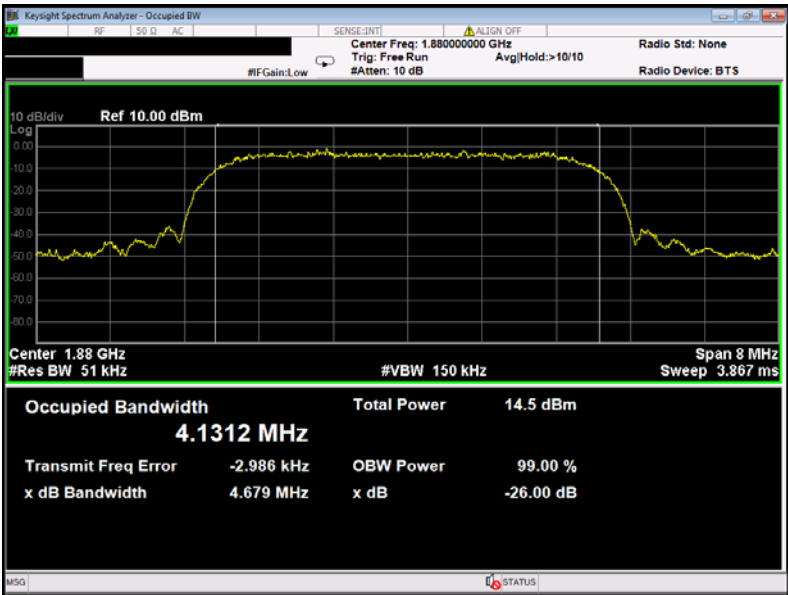
RMC12.2k



HSDPA



HSUPA



10 Spurious Emissions at Antenna Terminals

Test Requirement:	FCC Part 2.1051, 22.917(a), 24.238(a)
Test Method:	ANSI/TIA-603-E:2016 ANSI C63.26:2015
Test Mode:	TX transmitting

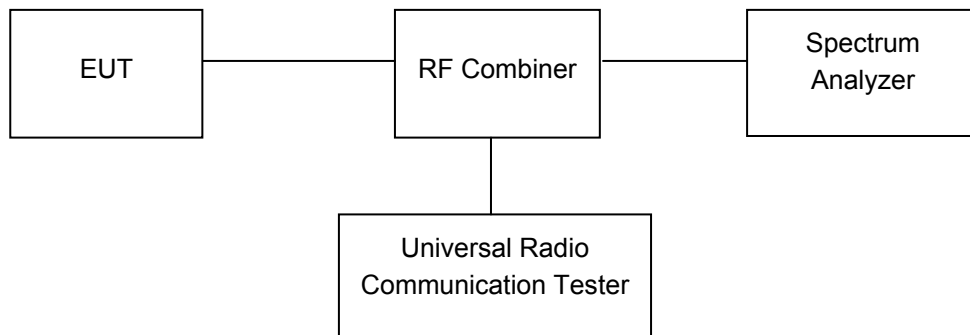
10.1 EUT Operation

Operating Environment :

Temperature:	25.4 °C
Humidity:	58.1 % RH
Atmospheric Pressure:	101.2kPa

10.2 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 harmonics.



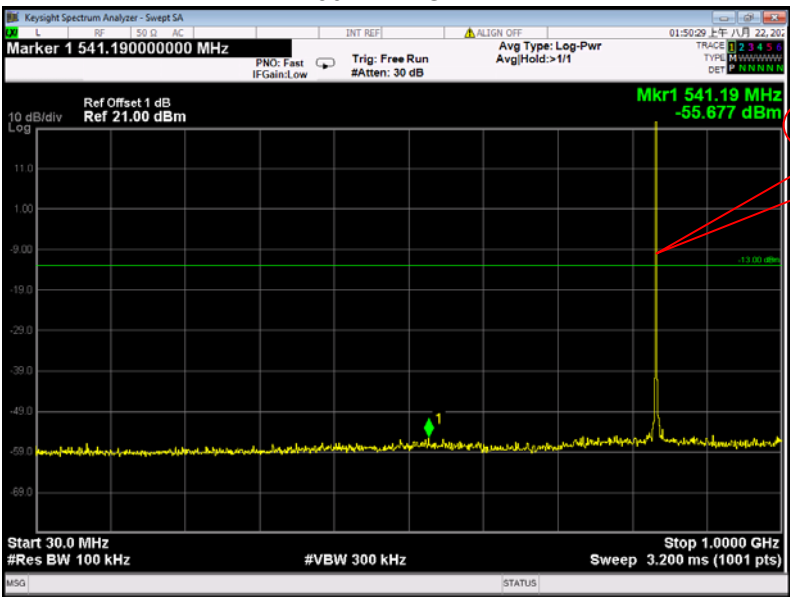
10.3 Test Result

Remark: All test data were reported and only the worst case (middle channel mode) test graphs were showed in test report.

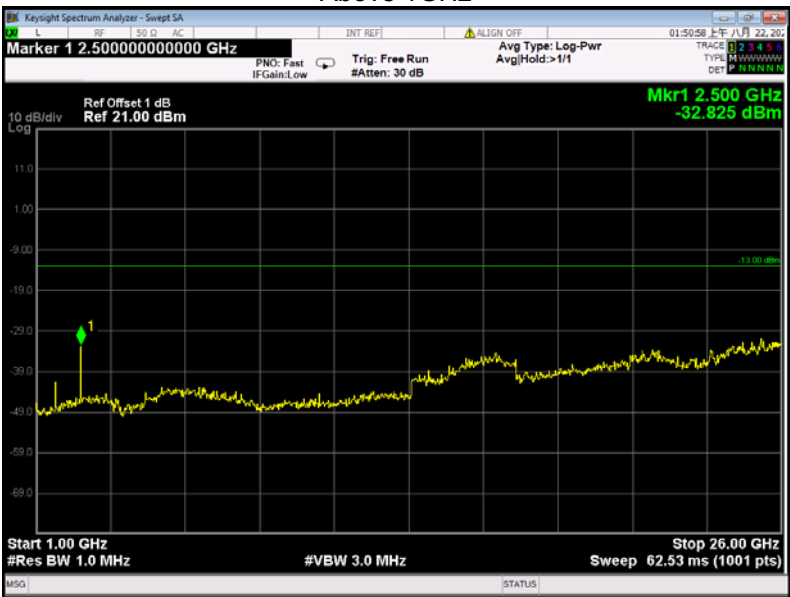
Cellular Band (Part 22H)

GSM 850 - channel 190

30MHz-1GHz



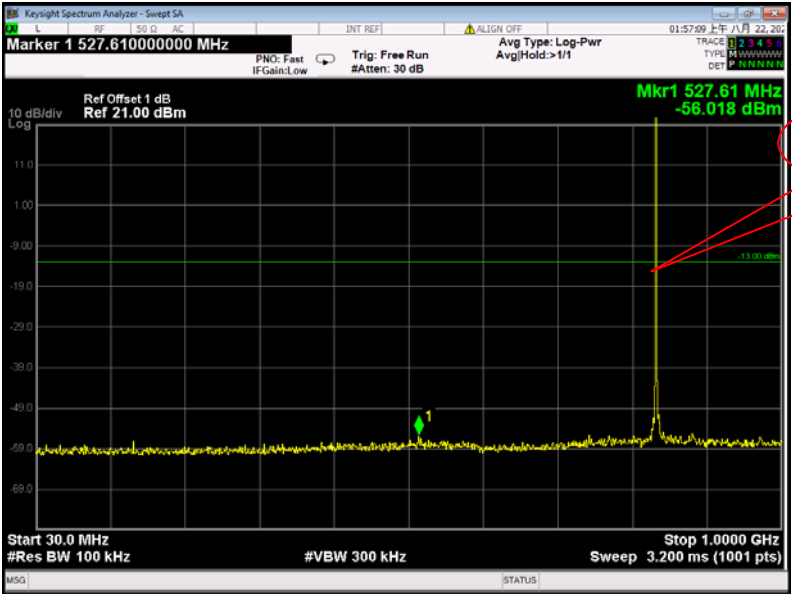
Above 1GHz



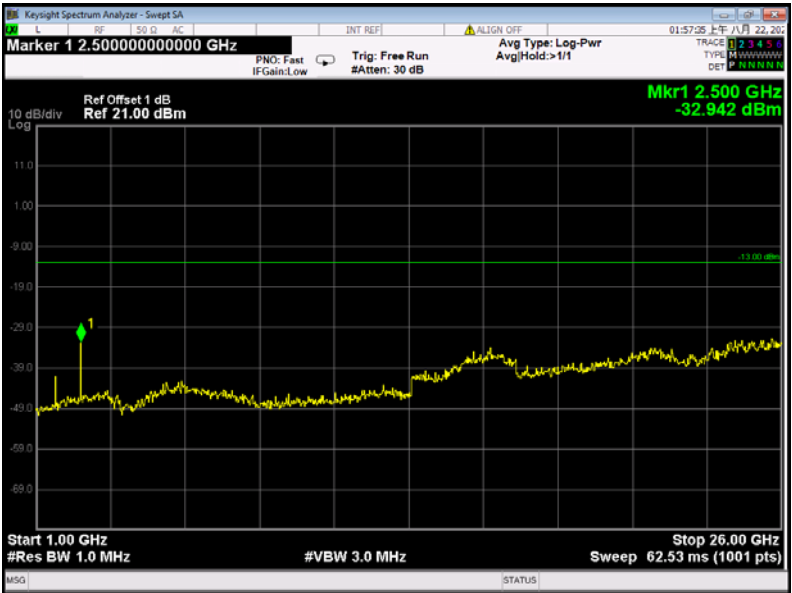
Cellular Band (Part 22H)

GPRS 850 - channel 190

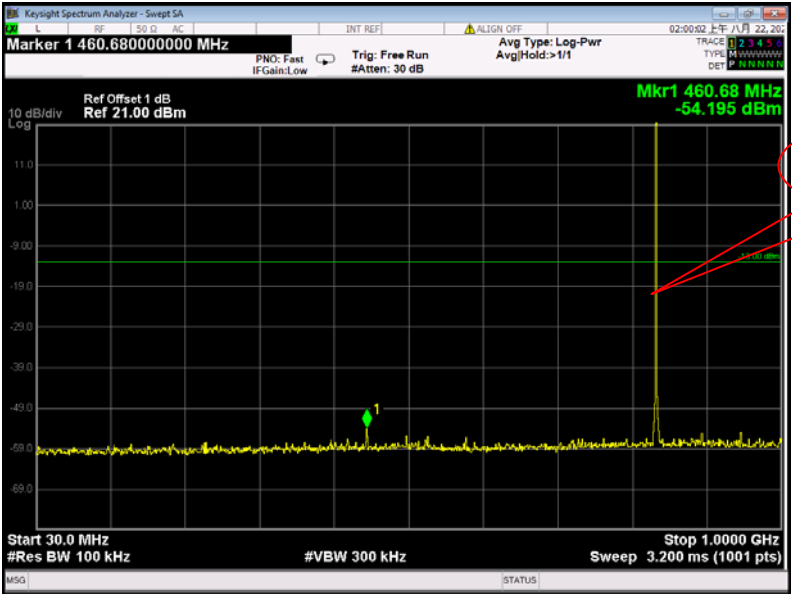
30MHz-1GHz



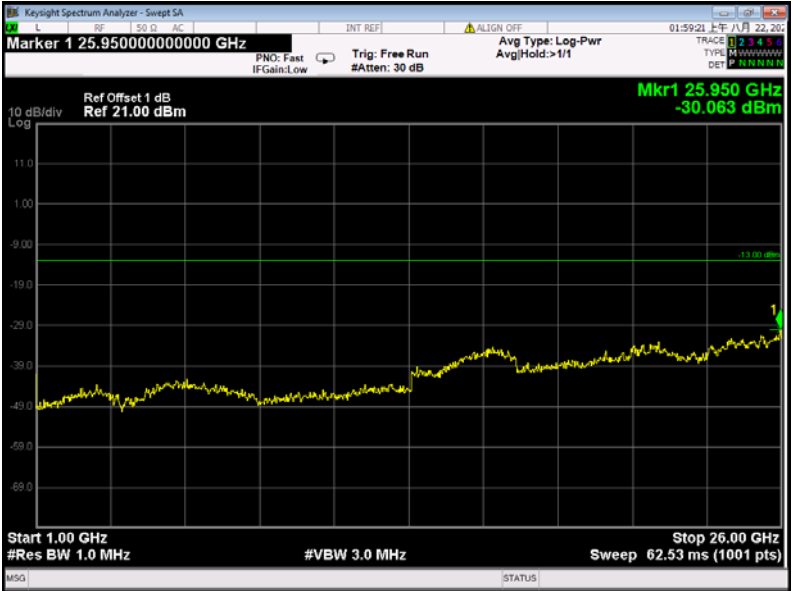
Above 1GHz



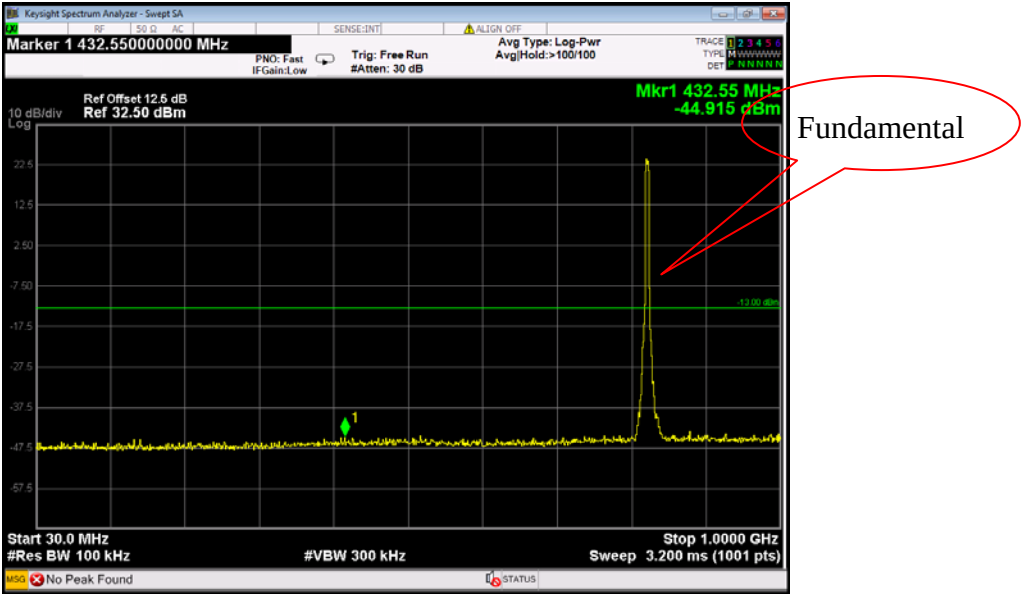
Cellular Band (Part 22H)
EGPRS 850 - channel 190
30MHz-1GHz



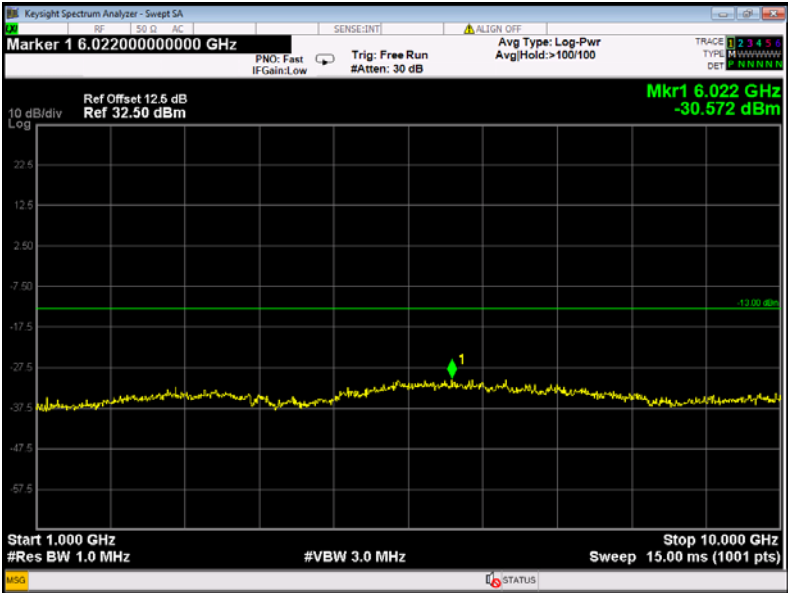
Above 1GHz



Cellular Band (Part 22H)
WCDMA band V - channel 4183
30MHz-1GHz

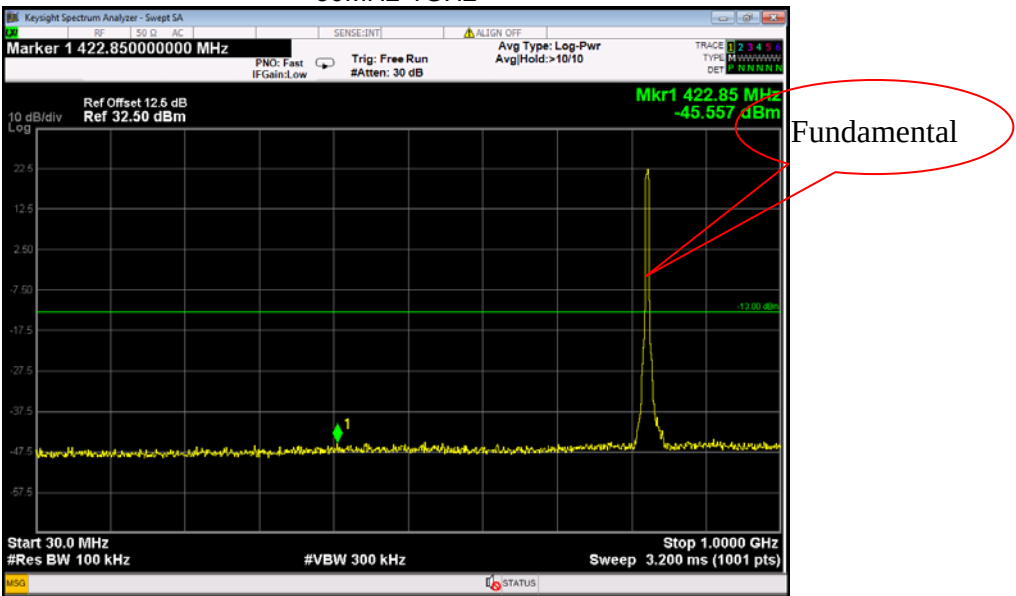


Above 1GHz

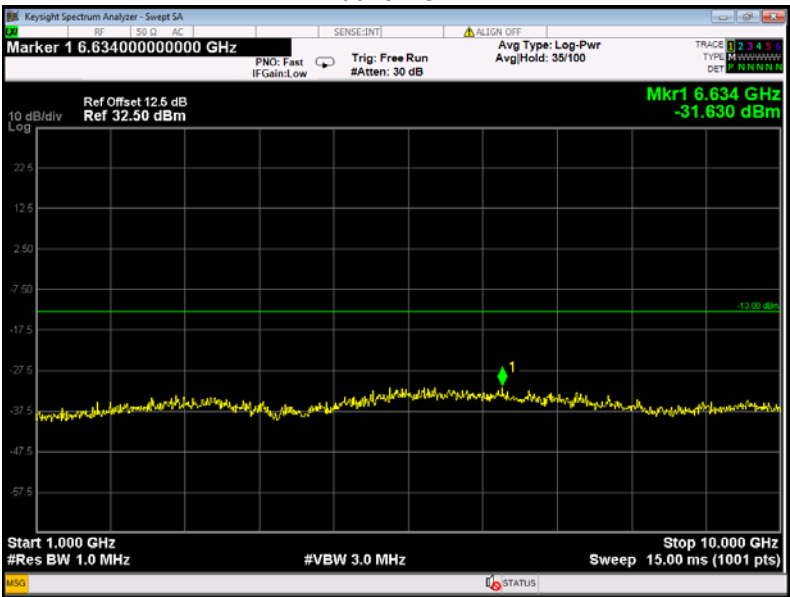


WCDMA band V - channel 4183 (HSDPA)

30MHz-1GHz

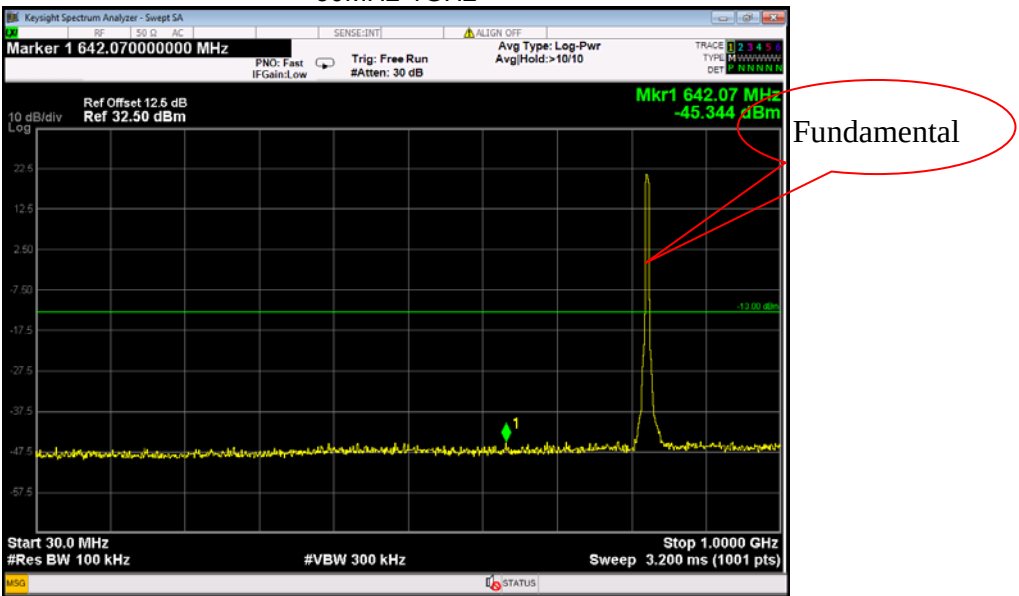


Above 1GHz

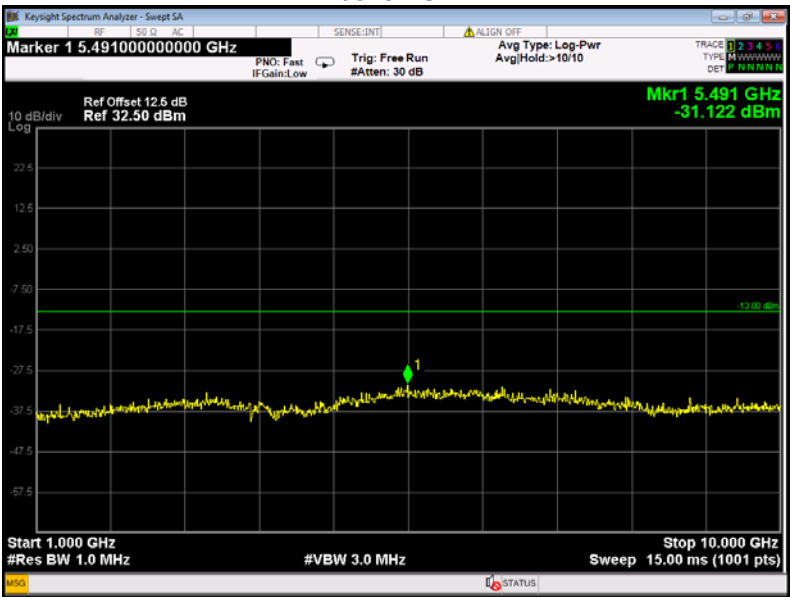


WCDMA band V - channel 4183 (HSUPA)

30MHz-1GHz



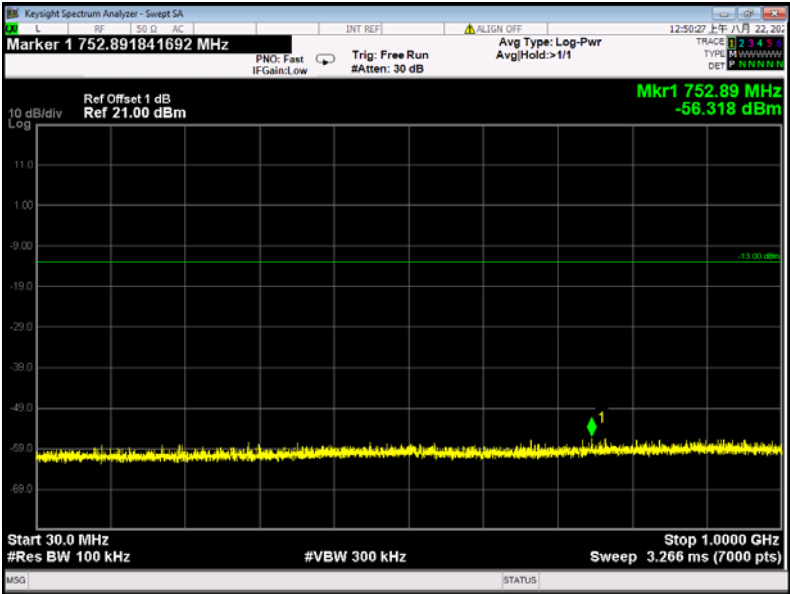
Above 1GHz



Cellular Band (Part 24E)

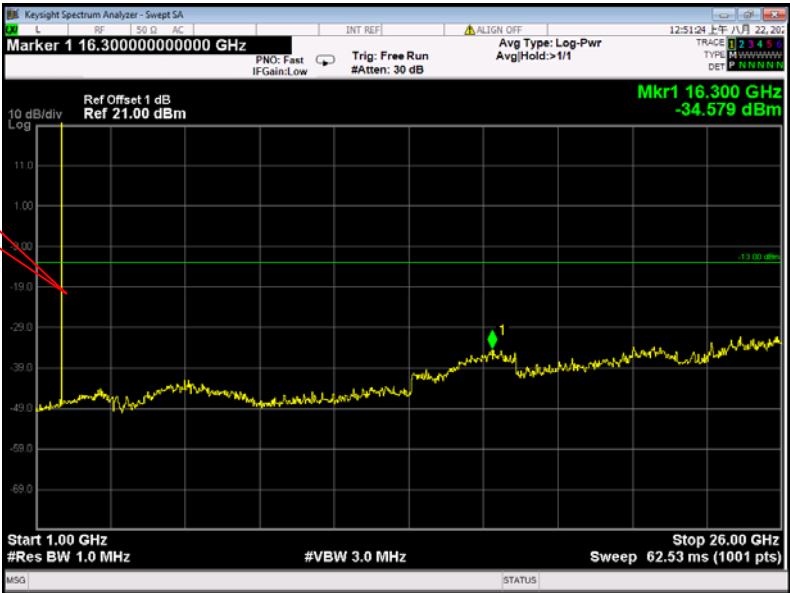
PCS 1900 - channel 661

30MHz-1GHz

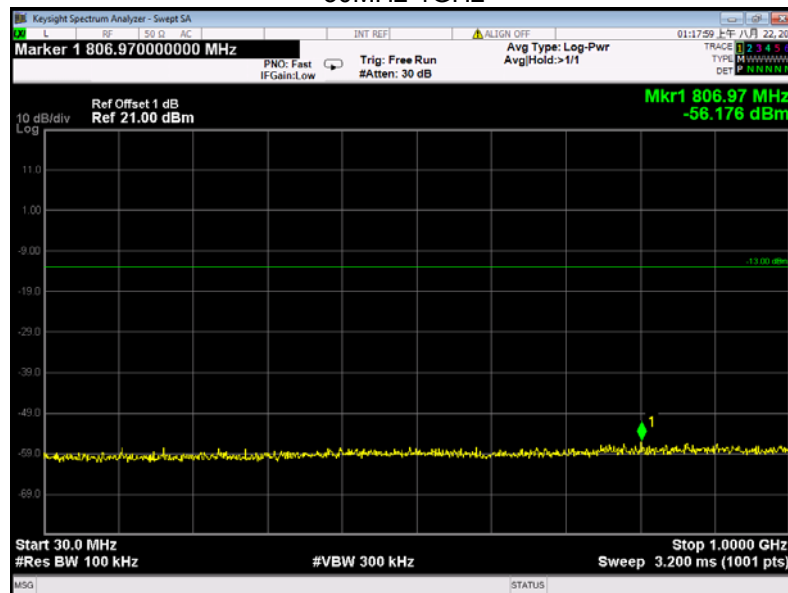


Above 1GHz

Fundamental

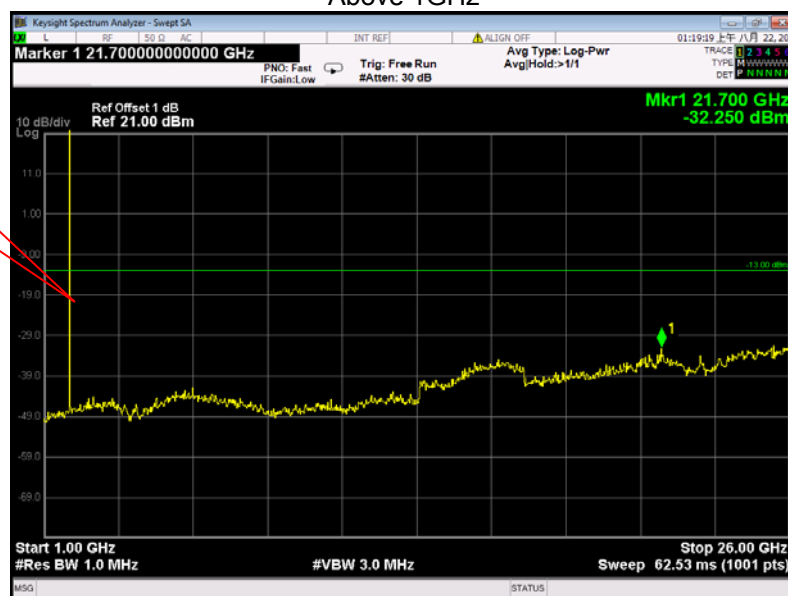


Cellular Band (Part 24E)
GPRS 1900 - channel 661
30MHz-1GHz

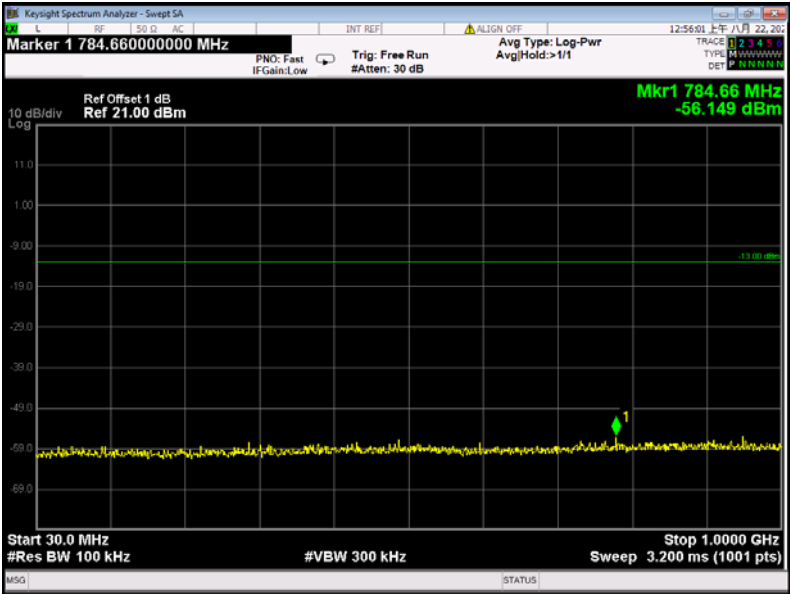


Above 1GHz

Fundamental

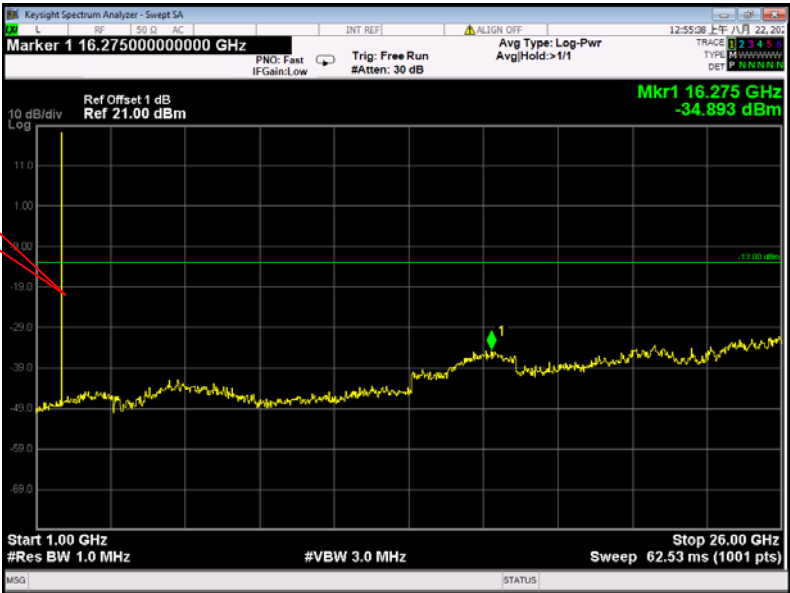


Cellular Band (Part 24E)
EGPRS 1900 - channel 661
30MHz-1GHz



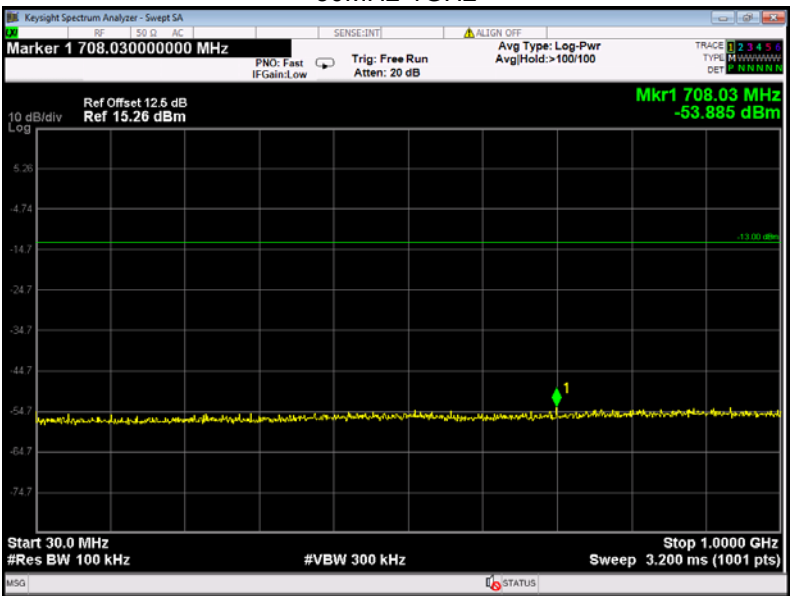
Above 1GHz

Fundamental



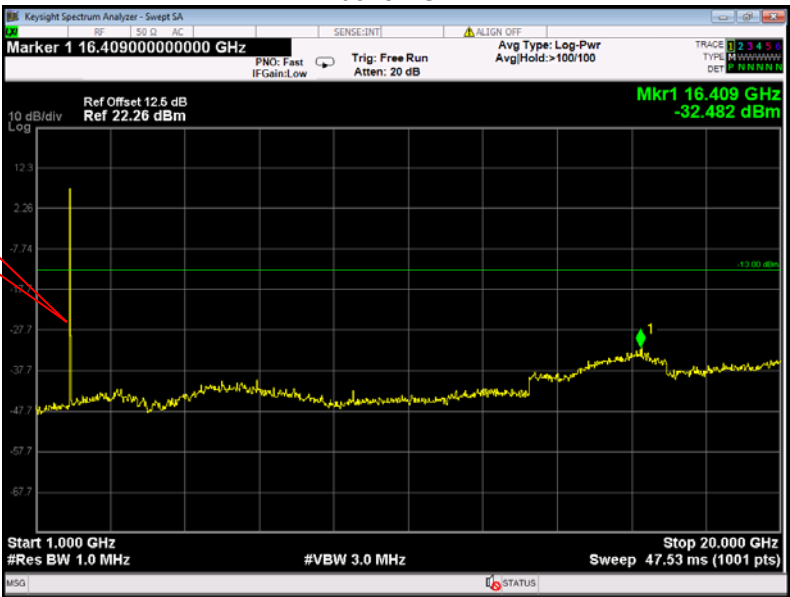
WCDMA band II - channel 9400

30MHz-1GHz



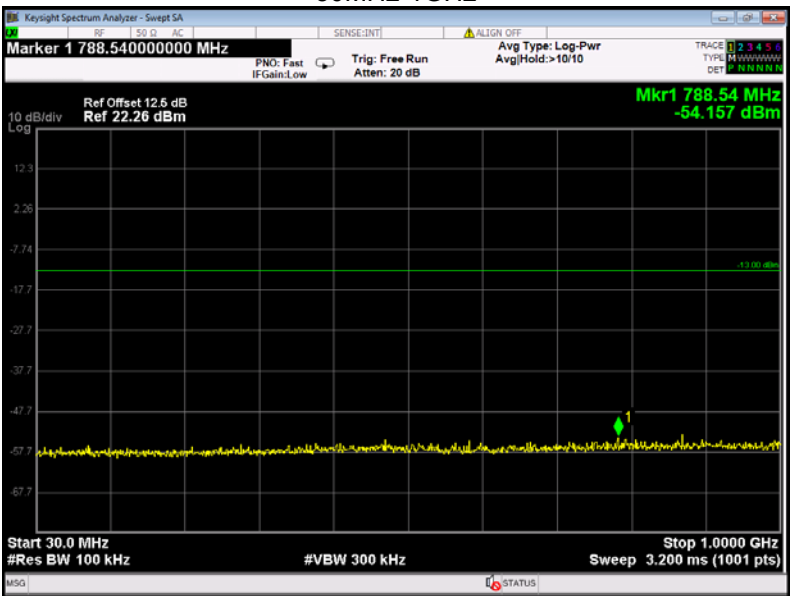
Above 1GHz

Fundamental



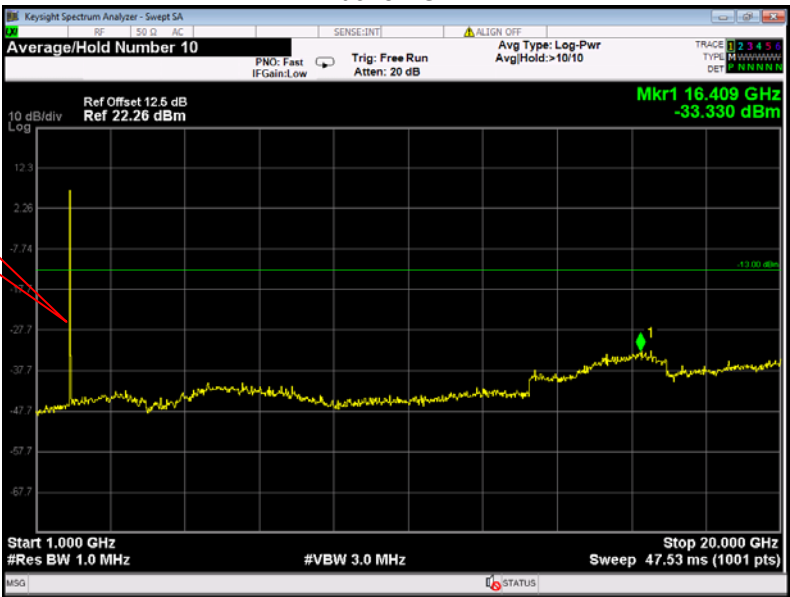
WCDMA band II - channel 9400 (HSDPA)

30MHz-1GHz



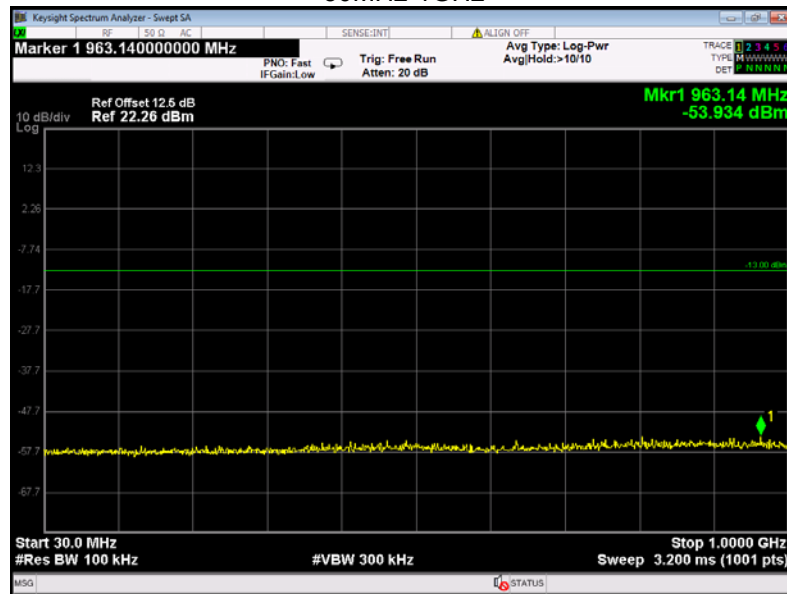
Above 1GHz

Fundamental



WCDMA band II - channel 9400 (HSUPA)

30MHz-1GHz



Above 1GHz

Fundamental



11 Spurious Radiated Emissions

Test Requirement: FCC Part 2.1053, 22.917, 24.238

Test Method: ANSI/TIA-603-E:2016

ANSI C63.26:2015

Test Mode: TX transmitting

11.1 EUT Operation

Operating Environment :

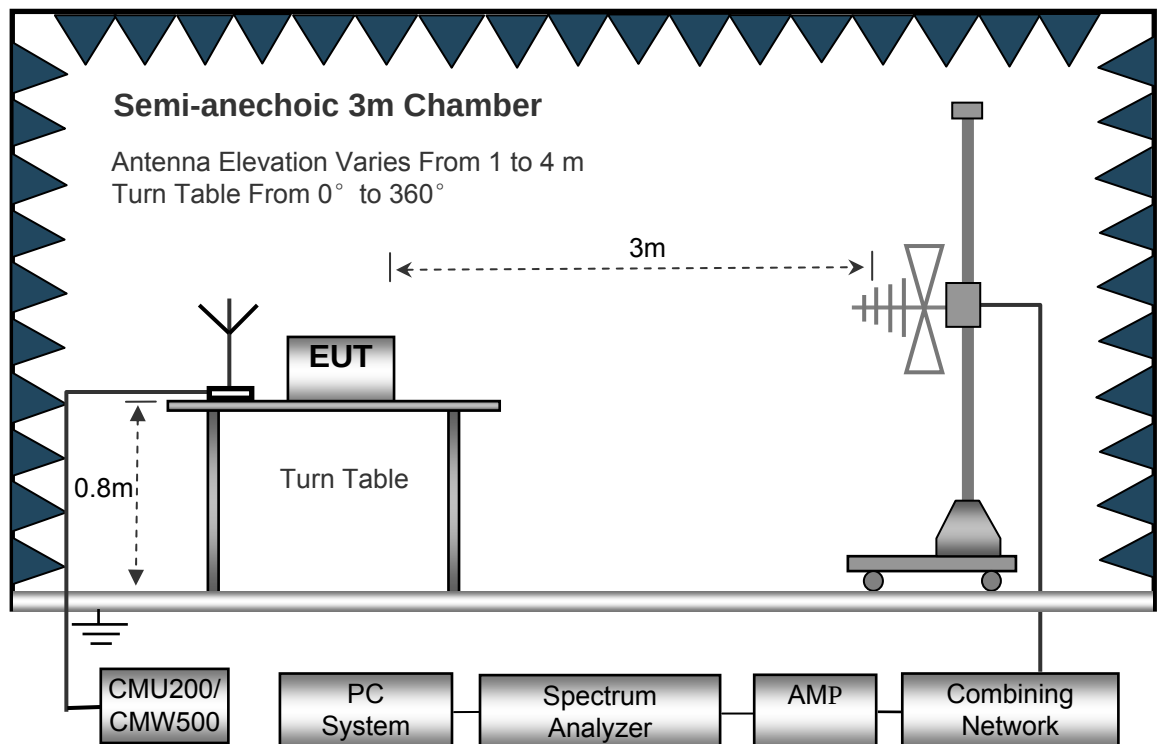
Temperature: 25.9 °C

Humidity: 61.7 % RH

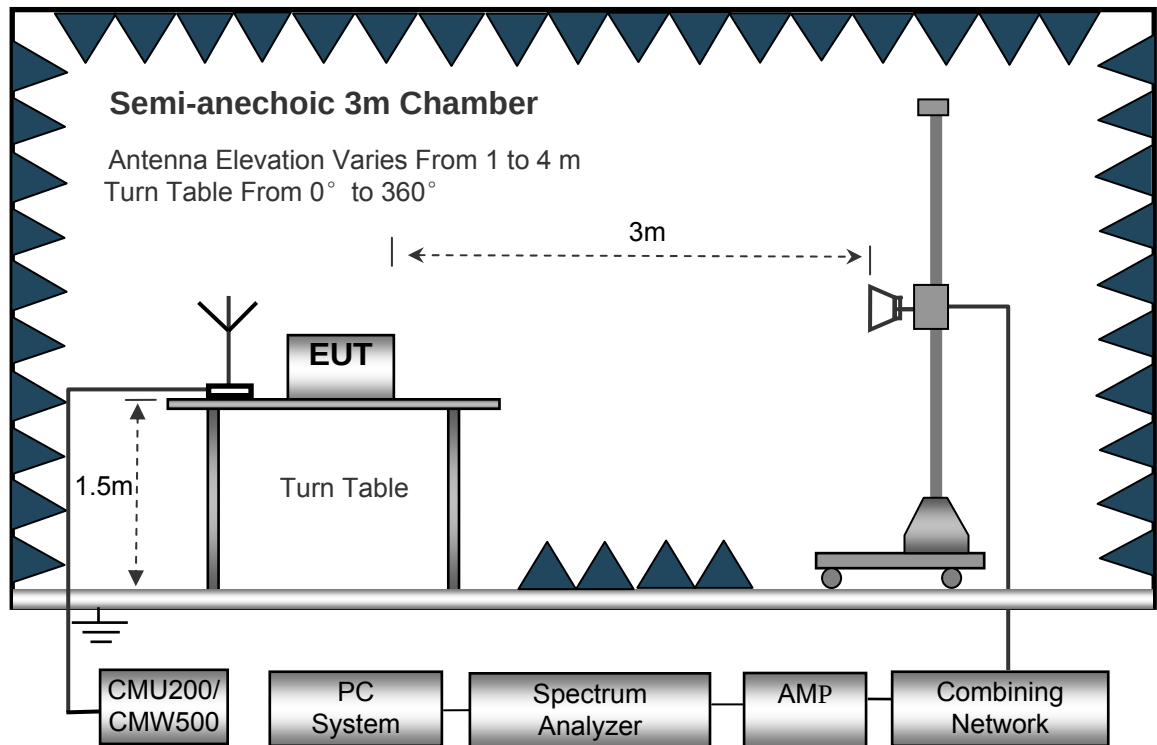
Atmospheric Pressure: 101.1kPa

11.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site. The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



11.3 Spectrum Analyzer Setup

30MHz ~ 1GHz

Sweep Speed Auto
Detector PK
Resolution Bandwidth..... 100kHz
Video Bandwidth..... 300kHz

Above 1GHz

Sweep Speed Auto
Detector PK
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 3MHz
Detector Ave.
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 10Hz

11.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m for below 1GHz and 1.5m for above 1GHz above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from 30MHz up to the tenth harmonic of the highest fundamental frequency.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the Z position. So the data shown was the Z position only.
7. 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 = $43 + 10 \lg (\text{power out in Watts})$
8. Repeat above procedures until the measurements for all frequencies are completed.

11.5 Summary of Test Results

For 26MHz~30MHz,

The measurements were more than 20 dB below the limit and not reported.

Remark: Test performed from 30MHz to 10th harmonics with low/middle/high channels, only the worst data were recorded.

Cellular Band (Part 22H)

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
GSM 850 Channel 128										
201.83	67.28	168	1.1	H	-43.23	0.15	0.00	-43.38	-13.00	-30.38
201.83	72.25	316	2.1	V	-35.34	0.15	0.00	-35.49	-13.00	-22.49
1648.40	68.43	291	2.0	H	-45.54	0.30	9.40	-36.44	-13.00	-23.44
1648.40	76.16	320	2.0	V	-37.37	0.30	9.40	-28.27	-13.00	-15.27
2472.60	59.69	144	2.2	H	-54.31	0.43	10.60	-44.14	-13.00	-31.14
2472.60	51.55	183	1.6	V	-58.73	0.43	10.60	-48.56	-13.00	-35.56
WCDMA Band V Channel 4233										
203.25	63.20	228	1.9	H	-47.31	0.15	0.00	-47.46	-13.00	-34.46
203.25	71.65	257	1.4	V	-35.94	0.15	0.00	-36.09	-13.00	-23.09
1693.20	59.93	52	1.8	H	-54.04	0.30	9.40	-44.94	-13.00	-31.94
1693.20	66.59	218	1.5	V	-46.94	0.30	9.40	-37.84	-13.00	-24.84
2539.80	50.46	241	1.6	H	-63.54	0.43	10.60	-53.37	-13.00	-40.37
2539.80	42.43	173	1.3	V	-67.85	0.43	10.60	-57.68	-13.00	-44.68

Cellular Band (Part 24E)

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
PCS 1900 Channel 512										
235.63	54.43	101	2.0	H	-56.08	0.15	0.00	-56.23	-13.00	-43.23
235.63	58.23	127	1.9	V	-49.36	0.15	0.00	-49.51	-13.00	-36.51
3700.40	65.95	91	1.5	H	-45.59	2.37	12.50	-35.46	-13.00	-22.46
3700.40	59.98	187	1.6	V	-49.83	2.37	12.50	-39.70	-13.00	-26.70
5550.60	59.58	169	1.7	H	-50.03	2.86	12.90	-39.99	-13.00	-26.99
5550.60	44.73	354	1.3	V	-64.15	2.86	12.90	-54.11	-13.00	-41.11
WCDMA Band II Channel 9400										
232.19	49.33	218	2.1	H	-61.18	0.15	0.00	-61.33	-13.00	-48.33
232.19	53.48	206	2.0	V	-54.11	0.15	0.00	-54.26	-13.00	-41.26
3760.00	58.78	214	2.1	H	-52.76	2.37	12.50	-42.63	-13.00	-29.63
3760.00	52.08	330	1.4	V	-57.73	2.37	12.50	-47.60	-13.00	-34.60
5640.00	45.73	6	1.4	H	-63.88	2.86	12.90	-53.84	-13.00	-40.84
5640.00	37.13	345	1.5	V	-71.75	2.86	12.90	-61.71	-13.00	-48.71

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

2) Margin = Limit- Absolute Level

12 Band Edge Measurement

Test Requirement:	FCC Part 2.1051, 22.917(a), 24.238(a)
Test Method:	ANSI/TIA-603-E:2016 ANSI C63.26:2015
Test Mode:	TX transmitting

12.1 EUT Operation

Operating Environment :

Temperature:	25.4 °C
Humidity:	58.1 % RH
Atmospheric Pressure:	101.2kPa

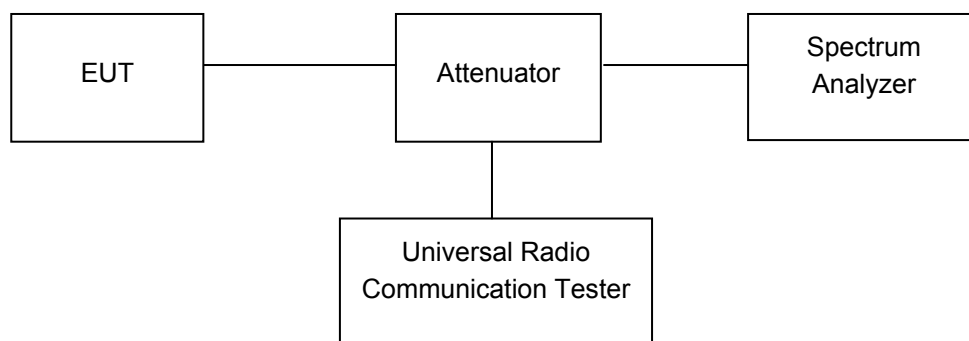
12.2 Test Procedure

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

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

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

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

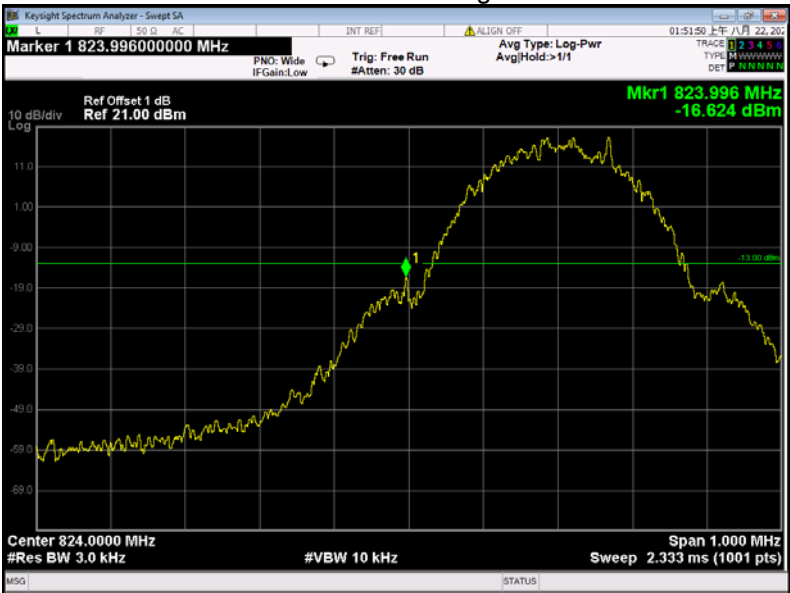


12.3 Test Result

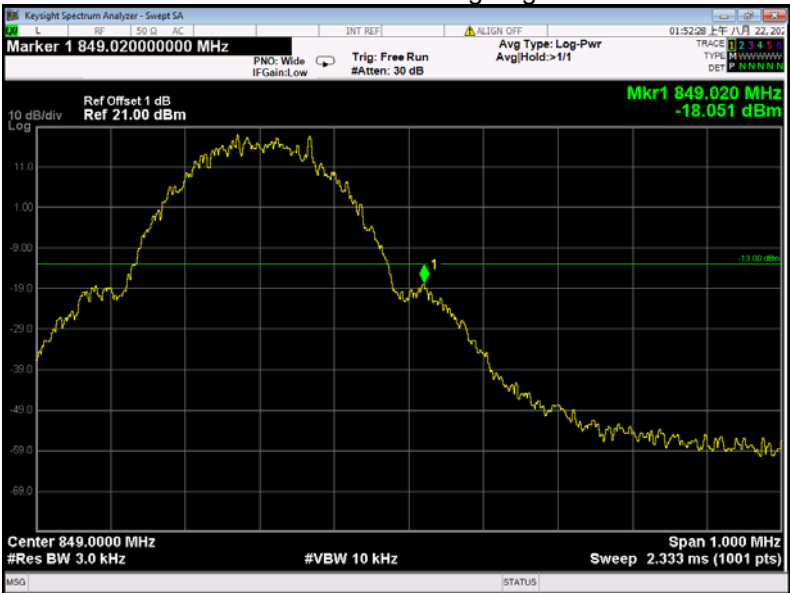
Test plots

Cellular Band (Part 22H)

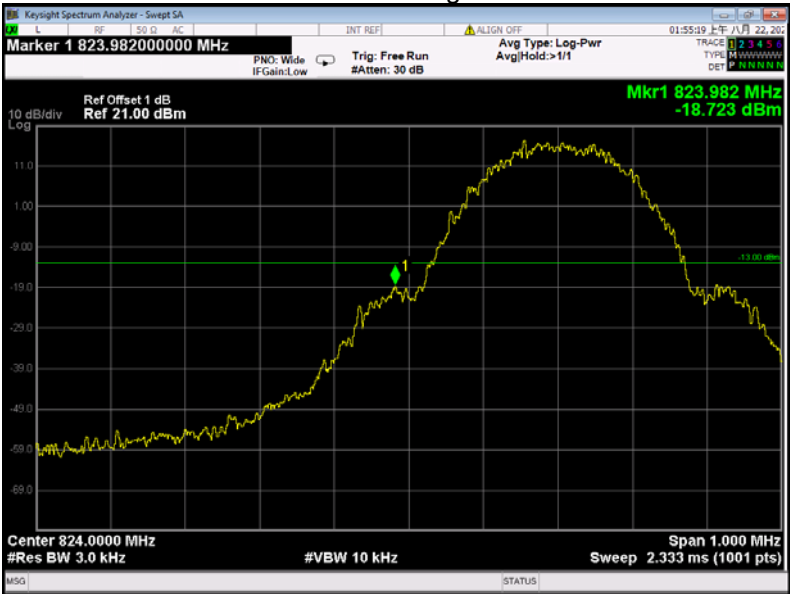
GSM 850 band edge-left side



GSM 850 band edge-right side



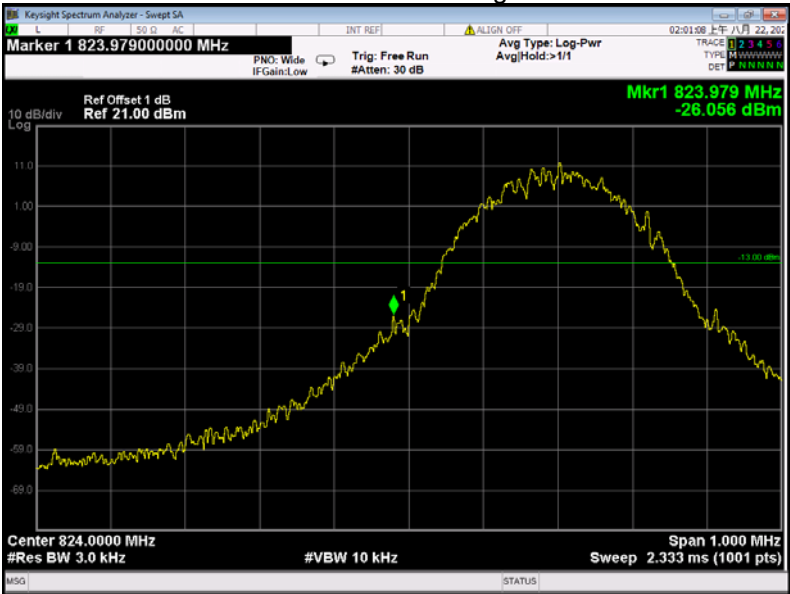
GPRS 850 band edge-left side



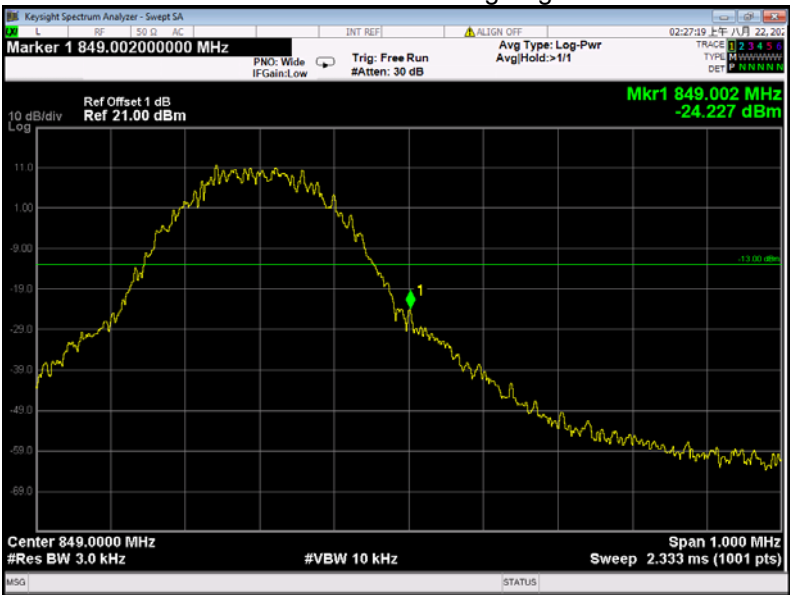
GPRS 850 band edge-right side



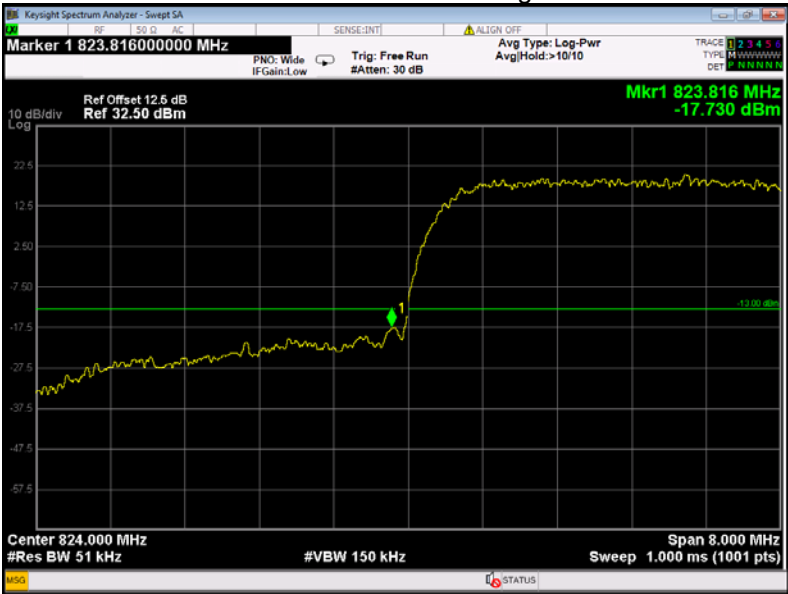
EGPRS 850 band edge-left side



EGPRS 850 band edge-right side



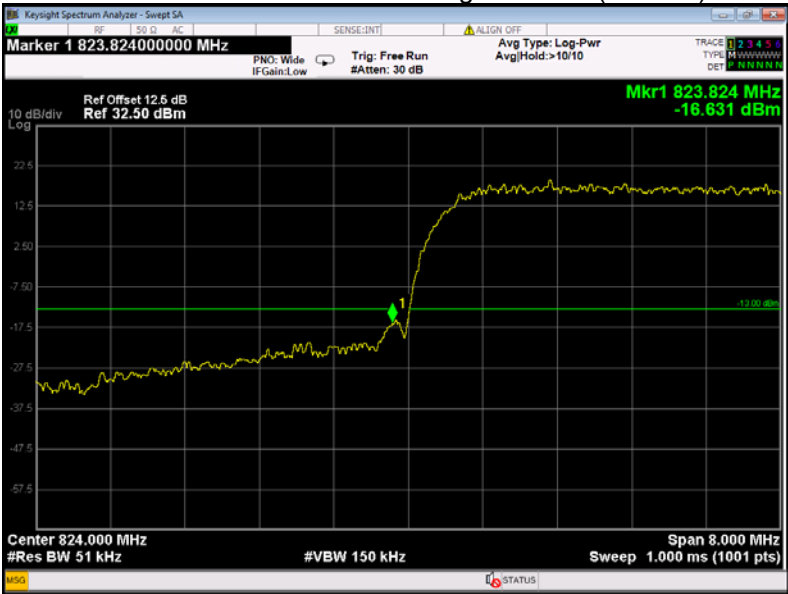
WCDMA band V band edge-left side



WCDMA band V band edge-right side



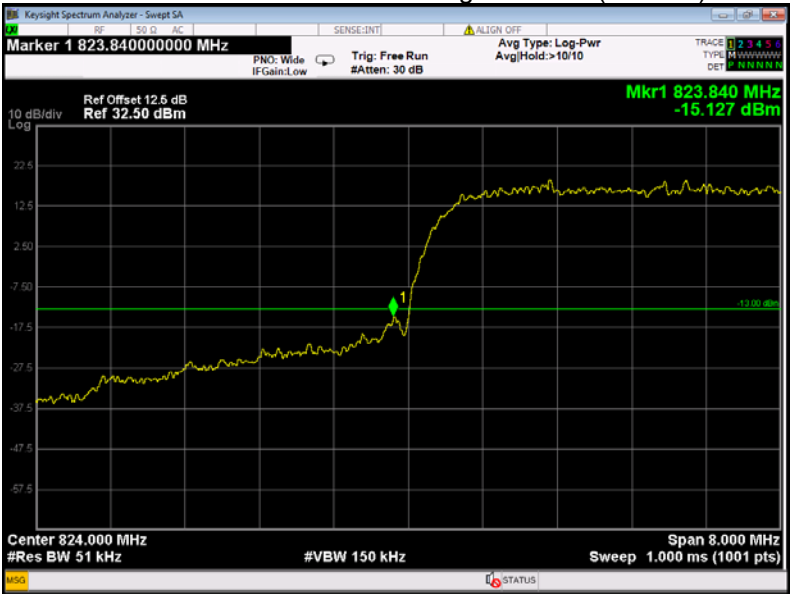
WCDMA band V band edge-left side (HSDPA)



WCDMA band V band edge-right side (HSDPA)



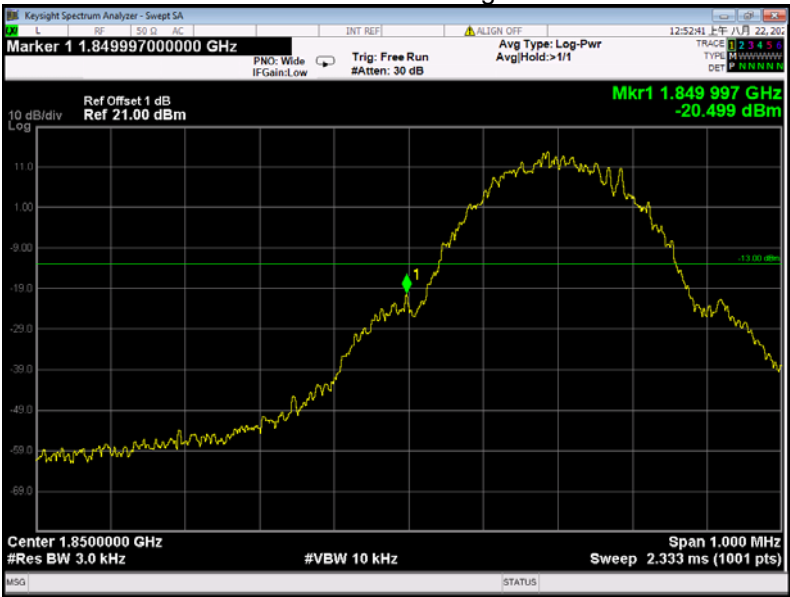
WCDMA band V band edge-left side (HSUPA)



WCDMA band V band edge-right side (HSUPA)



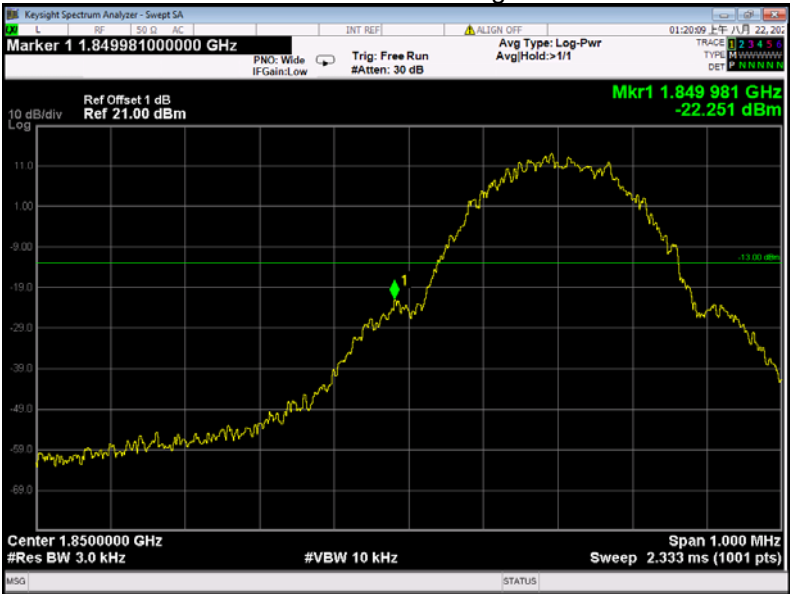
Cellular Band (Part 24E)
PCS 1900 band edge-left side



PCS 1900 band edge-right side



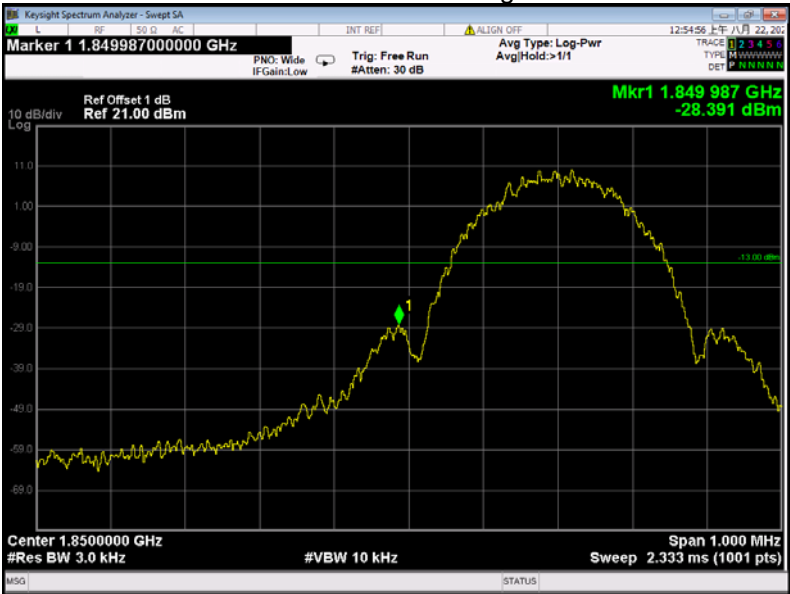
GPRS 1900 band edge-left side



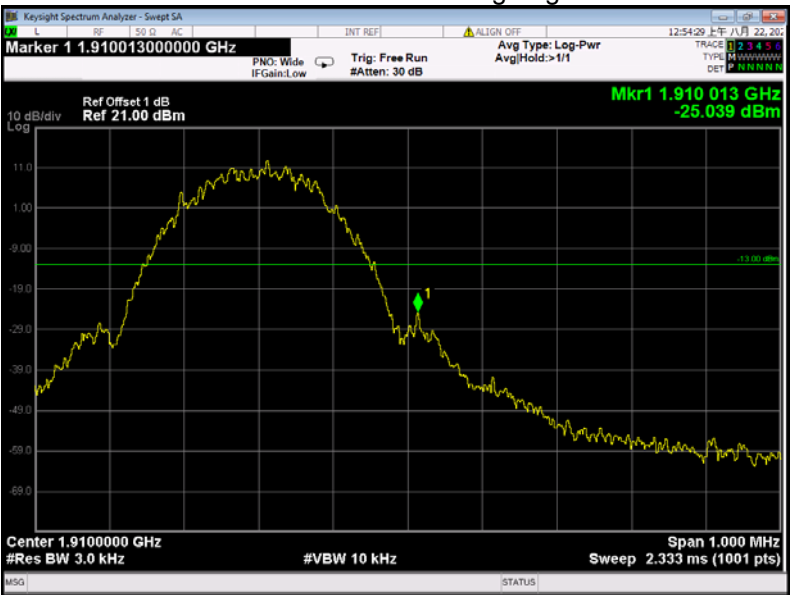
GPRS 1900 band edge-right side



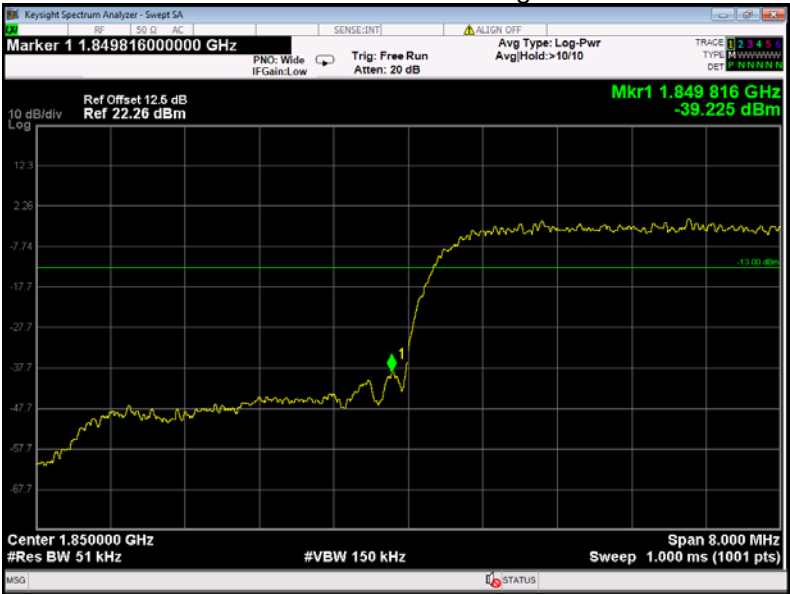
EGPRS 1900 band edge-left side



EGPRS 1900 band edge-right side



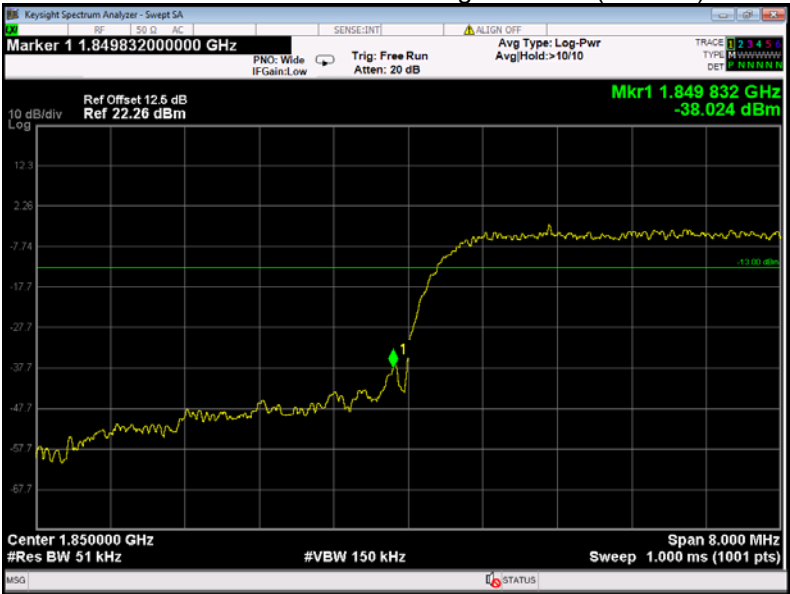
WCDMA band II band edge-left side



WCDMA band II band edge-right side



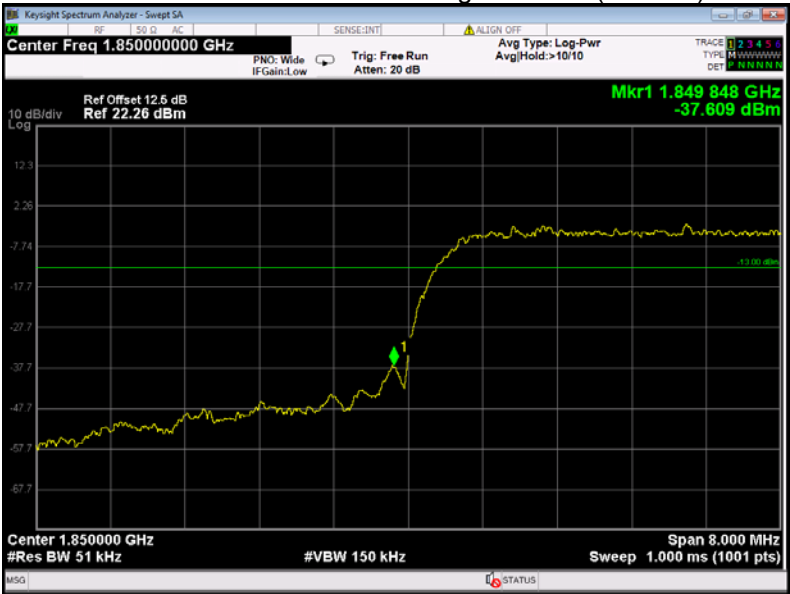
WCDMA band II band edge-left side (HSDPA)



WCDMA band II band edge-right side (HSDPA)



WCDMA band II band edge-left side (HSUPA)



WCDMA band II band edge-right side (HSUPA)



13 Frequency Stability

Test Requirement:	FCC Part 2.1055, 22.355, 24.235
Test Method:	ANSI/TIA-603-E:2016 ANSI C63.26:2015
Test Mode:	TX transmitting

13.1 EUT Operation

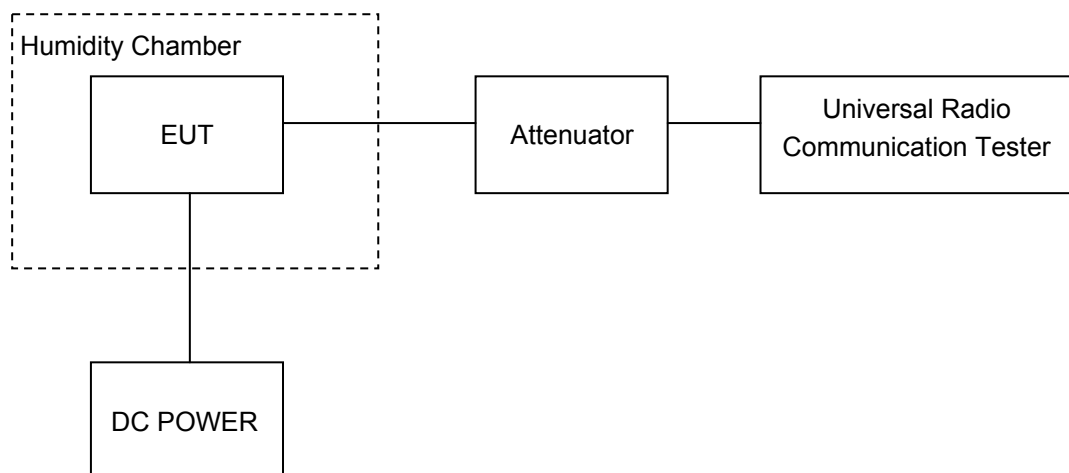
Operating Environment :	
Temperature:	25.4 °C
Humidity:	58.1 % RH
Atmospheric Pressure:	101.2kPa

13.2 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.



13.3 Test Result

Cellular Band (Part 22H)

GSM 850 Test Frequency:836.6MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	3.8	8	0.0096	2.5
40		4	0.0048	2.5
30		7	0.0084	2.5
20		4	0.0048	2.5
10		9	0.0108	2.5
0		3	0.0036	2.5
-10		-4	-0.0048	2.5
-20		-5	-0.0060	2.5
-30		-2	-0.0024	2.5
20	3.42	12	0.0143	2.5
20	4.18	-4	-0.0048	2.5

GPRS 850 Test Frequency:836.6MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	3.8	8	0.0096	2.5
40		6	0.0072	2.5
30		-2	-0.0024	2.5
20		7	0.0084	2.5
10		7	0.0084	2.5
0		10	0.0120	2.5
-10		3	0.0036	2.5
-20		2	0.0024	2.5
-30		5	0.0060	2.5
20	3.42	-1	-0.0012	2.5
20	4.18	4	0.0048	2.5

EGPRS 850 Test Frequency:836.6MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	3.8	4	0.0048	2.5
40		12	0.0143	2.5
30		6	0.0072	2.5
20		5	0.0060	2.5
10		13	0.0155	2.5
0		3	0.0036	2.5
-10		3	0.0036	2.5
-20		9	0.0108	2.5
-30		-2	-0.0024	2.5
20	3.42	2	0.0024	2.5
20	4.18	-2	-0.0024	2.5

WCDMA Band V Test Frequency:836.6MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	3.8	2	0.0024	2.5
40		14	0.0167	2.5
30		10	0.0120	2.5
20		8	0.0096	2.5
10		0	0.0000	2.5
0		-1	-0.0012	2.5
-10		16	0.0191	2.5
-20		4	0.0048	2.5
-30		1	0.0012	2.5
20	3.42	-1	-0.0012	2.5
20	4.18	10	0.0120	2.5

WCDMA Band V Test Frequency:836.6MHz(HSDPA)				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	3.8	4	0.0048	2.5
40		3	0.0036	2.5
30		5	0.0060	2.5
20		6	0.0072	2.5
10		15	0.0179	2.5
0		1	0.0012	2.5
-10		0	0.0000	2.5
-20		8	0.0096	2.5
-30		-1	-0.0012	2.5
20	3.42	2	0.0024	2.5
20	4.18	2	0.0024	2.5

WCDMA Band V Test Frequency:836.6MHz(HSUPA)				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	3.8	6	0.0072	2.5
40		1	0.0012	2.5
30		10	0.0120	2.5
20		3	0.0036	2.5
10		3	0.0036	2.5
0		-6	-0.0072	2.5
-10		2	0.0024	2.5
-20		11	0.0131	2.5
-30		-6	-0.0072	2.5
20	3.42	10	0.0120	2.5
20	4.18	-2	-0.0024	2.5

PCS Band (Part 24E)

PCS 1900 Test Frequency:1880.0MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	3.8	-3	-0.0016	2.5
40		1	0.0005	2.5
30		5	0.0027	2.5
20		4	0.0021	2.5
10		12	0.0064	2.5
0		1	0.0005	2.5
-10		7	0.0037	2.5
-20		12	0.0064	2.5
-30		3	0.0016	2.5
20	3.42	6	0.0032	2.5
20	4.18	-2	-0.0011	2.5

GPRS 1900 Test Frequency:1880.0MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	3.8	2	0.0011	2.5
40		9	0.0048	2.5
30		8	0.0043	2.5
20		6	0.0032	2.5
10		13	0.0069	2.5
0		12	0.0064	2.5
-10		-3	-0.0016	2.5
-20		6	0.0032	2.5
-30		8	0.0043	2.5
20	3.42	1	0.0005	2.5
20	4.18	11	0.0059	2.5

EGPRS 1900 Test Frequency:1880.0MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	3.8	1	0.0005	2.5
40		-3	-0.0016	2.5
30		12	0.0064	2.5
20		5	0.0027	2.5
10		0	0.0000	2.5
0		11	0.0059	2.5
-10		12	0.0064	2.5
-20		7	0.0037	2.5
-30		2	0.0011	2.5
20	3.42	4	0.0021	2.5
20	4.18	-2	-0.0011	2.5

WCDMA Band II Test Frequency:1880.0MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	3.8	8	0.0043	2.5
40		5	0.0027	2.5
30		11	0.0059	2.5
20		3	0.0016	2.5
10		-5	-0.0027	2.5
0		8	0.0043	2.5
-10		-5	-0.0027	2.5
-20		5	0.0027	2.5
-30		-6	-0.0032	2.5
20	3.42	4	0.0021	2.5
20	4.18	5	0.0027	2.5

WCDMA Band II Test Frequency:1880.0MHz(HSDPA)				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	3.8	2	0.0011	2.5
40		6	0.0032	2.5
30		0	0.0000	2.5
20		7	0.0037	2.5
10		10	0.0053	2.5
0		7	0.0037	2.5
-10		12	0.0064	2.5
-20		-2	-0.0011	2.5
-30		4	0.0021	2.5
20	3.42	8	0.0043	2.5
20	4.18	1	0.0005	2.5

WCDMA Band II Test Frequency:1880.0MHz(HSUPA)				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	3.8	5	0.0027	2.5
40		8	0.0043	2.5
30		2	0.0011	2.5
20		4	0.0021	2.5
10		8	0.0043	2.5
0		5	0.0027	2.5
-10		11	0.0059	2.5
-20		-5	-0.0027	2.5
-30		12	0.0064	2.5
20	3.42	-5	-0.0027	2.5
20	4.18	9	0.0048	2.5

14 RF Exposure

Remark: refer to SAR test report: WTD24D08190450W006.

15 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-K-SWK-Photos.

===== End of Report =====