



TEST REPORT

Test item description: 4G LTE Pocket WiFi
FCC ID: 2BHDC-MF67
Trademark(s): N/A
Model/Type reference: MF67
Applicant's name: Shenzhen Zijin Technology Co., Ltd.
Address: Rm 2895, Pengrunda COMM Plaza, No.3368 Hubin Rd., YuehaiSt., Nanshan Dist., Shenzhen, Guangdong, China
Manufacturer: Shenzhen Zijin Technology Co., Ltd.
Address: Rm 2895, Pengrunda COMM Plaza, No.3368 Hubin Rd., YuehaiSt., Nanshan Dist., Shenzhen, Guangdong, China
Prepared By: Shenzhen CTB Testing Technology Co., Ltd.
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Sample Received Date: Jan. 08, 2026
Sample tested Date: Jan. 08, 2026 to Jan. 23, 2026
Issue Date: Jan. 23, 2026
Report No.: CTB26010810102RF02
Test Standards: FCC Part 22H & 24E
Test Results: PASS
Remark: This is GSM radio test report.

Compiled by:

Reviewed by:

Approved by:

Kai Chen

Kai Chen

Martin Feng

Martin FengBin Mei / Director

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
CTB26010810102RF02	Jan. 23, 2026	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

FCC Rules	Description of Test Item	Result
§1.1307, §2.1091	RF Exposure	Compliant
§22.913 (a), §24.232 (c)	RF Output Power	Compliant
§24.51	Peak-to-average Ratio(PAR) of Transmitter	Compliant
§22.917 (b), §24.238 (b)	Emission Bandwidth	Compliant
§22.917 (a), §24.238 (a)	Spurious Emissions at Antenna Terminal	Compliant
§22.917 (a), §24.238 (a)	Spurious Radiation Emissions	Compliant
§22.917 (a), §24.238 (a)	Out of Band Emissions	Compliant
§22.355, §24.235	Frequency Stability	Compliant

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Item	Uncertainty
Occupancy bandwidth	54.3kHz
Conducted output power Above 1G	0.9dB
Conducted output power below 1G	0.9dB
Power Spectral Density , Conduction	0.9dB
Conduction spurious emissions	2.0dB
Out of band emission	2.0dB
3m camber Radiated spurious emission(30MHz-1GHz)	4.6dB
3m chamber Radiated spurious emission(1GHz-18GHz)	5.1dB
3m chamber Radiated spurious emission(18GHz-40GHz)	3.4dB
Receiver Reference Sensitivity level	1.9dB
humidity uncertainty	5.5%
Temperature uncertainty	0.63°C
frequency	1×10^{-7}

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model/Type reference:	MF67
Model Description:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	WCDMA Band 2: 1850~1910MHz WCDMA Band 5: 824~849MHz
Max. RF output power:	WCDMA Band 2: 20.75dBm WCDMA Band 5: 22.14dBm
Type of Modulation:	GMSK, BPSK
Antenna installation:	FPC antenna
Antenna Gain:	WCDMA Band 2: 2.56dBi WCDMA Band 5: -1.27dBi
Ratings:	DC 5V 1A

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Laptop	DELL	Vostro 5490	N/A	AE

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

Testing Configure			
Support Band	Support Standard	Channel Frequency	Channel Number
WCDMA Band 5	WCDMA/HSDPA/HSUPA	826.4 MHz	4132
		836.6 MHz	4183
		846.6 MHz	4233
WCDMA Band 2	WCDMA/HSDPA/HSUPA	1852.4 MHz	9262
		1880.0 MHz	9400
		1907.6 MHz	9538
Note: the transmitter has been tested on the communications mode of GSM, GPRS, EDGE, WCDMA, HSDPA, HSUPA compliance test and record the worst case.			

4.5 Test Mode

Test Mode List		
Test Mode	Description	Remark
TM7	WCDMA Band 5	Low, Middle, High Channels
TM8	HSDPA Band 5	Low, Middle, High Channels
TM9	HSUPA Band 5	Low, Middle, High Channels
TM10	WCDMA Band 2	Low, Middle, High Channels
TM11	HSDPA Band 2	Low, Middle, High Channels
TM12	HSUPA Band 2	Low, Middle, High Channels

4.6 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC):	5V
Normal Temperature(°C)	23
Low Temperature(°C)	0
High Temperature(°C)	40

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at 1&2F., Building A, No. 26, Xinhua Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: CN1276

5.2 Test Instrument Used

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated Date	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2025/5/23	2026/5/22
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2025/5/23	2026/5/22
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2025/5/23	2026/5/22
4	Communication test set	R&S	CMW500	108058	V3.5.80	2025/5/23	2026/5/22
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2025/5/23	2026/5/22
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2025/5/22	2026/5/21
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2025/5/22	2026/5/21
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2025/5/22	2026/5/21
9	2.4 GHz Filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	/	2025/6/18	2026/6/17
10	5 GHz Filter	Shenxiang	MSF5150-5850 MS-1155	20181015001	/	2025/6/18	2026/6/17
11	Filter	Xingbo	XBLBQ-DZA120	190821-1-1	/	2025/5/24	2026/5/23
12	BT&WI-FI Automatic test software	Microwave	MTS8310	Ver. 2.0.0.0	/	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2025/10/20	2026/10/19
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2025/5/22	2026/5/21
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/	/	/
16	966 chamber	C.R.T.	966	/	/	2024/6/23	2027/6/22
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 (104489/003)	2025/5/23	2026/5/22

18	Amplifier	HP	8447E	2945A02747	/	2025/5/23	2026/5/22
19	Amplifier	Agilent	8449B	3008A01838	/	2025/6/2	2026/6/1
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2025/6/29	2026/6/28
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2025/6/1	2026/5/31
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2025/6/2	2026/6/1
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2025/6/2	2026/6/1
26	Amplifier	AEROFLEX	Aeroflex	097	/	2025/6/2	2026/6/1
27	Power Metter	KEYSIGHT	N1912AP	N/A	A.05.00	2025/6/2	2026/6/1

6. RF OUTPUT POWER

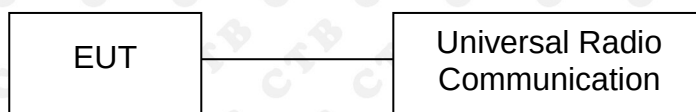
6.1 Standard Applicable

According to §22.913(a)(2), The ERP of mobile and portable stations transmitters and auxiliary test transmitters must not exceed 7 Watts.

According to §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.

6.2 Test Procedure

Conducted output power test method:



Radiated power test method:

1. The setup of EUT is according with per ANSI/TIA Standard 603D and ANSI C63.4-2014 measurement procedure.
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.

6.3 Environmental Conditions

Temperature:	23 °C
Relative Humidity:	54%
ATM Pressure:	1010 mbar

6.4 Summary of Test Results/Plots

Max. Radiated Power

ERP For WCDMA Mode Band 5

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dBd	dBm	dBm
Low Channel								
826.4	20.84	1.5	0	H	1.5	-1.27	18.07	38.45
826.4	20.95	1.5	0	V	1.5	-1.27	18.18	38.45
Middle Channel								
836.6	20.99	1.5	0	H	1.5	-1.27	18.22	38.45
836.6	21.52	1.5	0	V	1.5	-1.27	18.75	38.45
High Channel								
846.6	21.11	1.5	0	H	1.5	-1.27	18.34	38.45
846.6	20.94	1.5	0	V	1.5	-1.27	18.17	38.45

ERP For HSDPA Mode Band 5

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dBd	dBm	dBm
Low Channel								
826.4	21.06	1.5	0	H	1.5	-1.27	18.29	38.45
826.4	20.87	1.5	0	V	1.5	-1.27	18.10	38.45
Middle Channel								
836.6	22.05	1.5	0	H	1.5	-1.27	19.28	38.45
836.6	21.62	1.5	0	V	1.5	-1.27	18.85	38.45
High Channel								
846.6	21.69	1.5	0	H	1.5	-1.27	18.92	38.45
846.6	21.05	1.5	0	V	1.5	-1.27	18.28	38.45

ERP For HSUPA Mode Band 5

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dBd	dBm	dBm
Low Channel								
826.4	21.39	1.5	0	H	1.5	-1.27	18.62	38.45
826.4	20.88	1.5	0	V	1.5	-1.27	18.11	38.45
Middle Channel								
836.6	21.37	1.5	0	H	1.5	-1.27	18.60	38.45
836.6	21.14	1.5	0	V	1.5	-1.27	18.37	38.45
High Channel								
846.6	21.61	1.5	0	H	1.5	-1.27	18.84	38.45
846.6	21.79	1.5	0	V	1.5	-1.27	19.02	38.45

EIRP For WCDMA Mode Band 2

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1852.4	20.34	1.5	0	H	1.9	2.56	21.00	33
1852.4	20.73	1.5	0	V	1.9	2.56	21.39	33
Middle Channel								
1880	20.72	1.5	0	H	1.9	2.56	21.38	33
1880	20.03	1.5	0	V	1.9	2.56	20.69	33
High Channel								
1907.6	21.01	1.5	0	H	1.9	2.56	21.67	33
1907.6	20.92	1.5	0	V	1.9	2.56	21.58	33

EIRP For HSDPA Mode Band 2

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1852.4	20.81	1.5	0	H	1.9	2.56	21.47	33
1852.4	20.48	1.5	0	V	1.9	2.56	21.14	33
Middle Channel								
1880	20.22	1.5	0	H	1.9	2.56	20.88	33
1880	21.66	1.5	0	V	1.9	2.56	22.32	33
High Channel								
1907.6	20.20	1.5	0	H	1.9	2.56	20.86	33
1907.6	19.94	1.5	0	V	1.9	2.56	20.60	33

EIRP For HSUPA Mode Band 2

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1852.4	20.50	1.5	0	H	1.9	2.56	21.16	33
1852.4	21.25	1.5	0	V	1.9	2.56	21.91	33
Middle Channel								
1880	21.00	1.5	0	H	1.9	2.56	21.66	33
1880	20.35	1.5	0	V	1.9	2.56	21.01	33
High Channel								
1907.6	19.94	1.5	0	H	1.9	2.56	20.60	33
1907.6	21.02	1.5	0	V	1.9	2.56	21.68	33

Note: Result = Substitute - Cable loss + Antenna Gain

Max. Conducted Output Power

For WCDMA Band 5

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 22.913 Limit (dBm)
WCDMA	Low Channel	826.4	21.66	38.45
	Middle Channel	836.6	21.93	38.45
	High Channel	846.6	21.90	38.45
HSDPA	Low Channel	826.4	21.83	38.45
	Middle Channel	836.6	22.14	38.45
	High Channel	846.6	22.04	38.45
HSUPA	Low Channel	826.4	21.82	38.45
	Middle Channel	836.6	22.01	38.45
	High Channel	846.6	21.91	38.45

For WCDMA Band 2

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 24.232 Limit (dBm)
WCDMA	Low Channel	1852.4	20.15	33.00
	Middle Channel	1880.0	20.50	33.00
	High Channel	1907.6	20.14	33.00
HSDPA	Low Channel	1852.4	20.75	33.00
	Middle Channel	1880.0	20.70	33.00
	High Channel	1907.6	20.34	33.00
HSUPA	Low Channel	1852.4	20.65	33.00
	Middle Channel	1880.0	20.73	33.00
	High Channel	1907.6	20.29	33.00

7. PEAK-TO-AVERAGE RATIO(PAR) OF TRANSMITTER

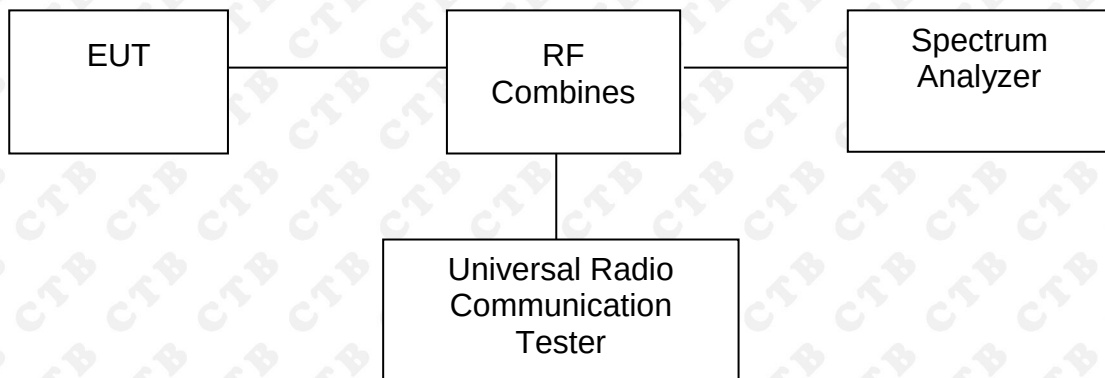
7.1 Standard Applicable

According to §24.232(d), Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

7.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 30kHz and the peak-to-average ratio (PAR) of the transmission was recorded. Record the maximum PAPR level associated with a probability of 0.1%.

Test Configuration for the emission bandwidth testing:



7.3 Environmental Conditions

Temperature:	23 °C
Relative Humidity:	54%
ATM Pressure:	1010 mbar

7.4 Summary of Test Results

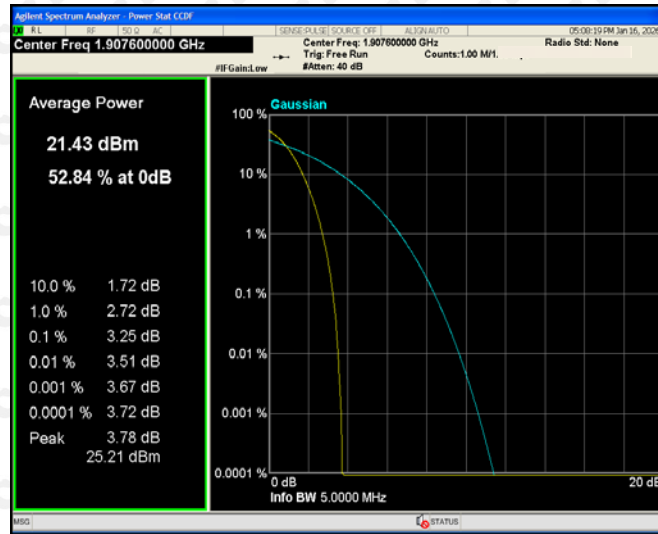
Only the worst case was selected to record
For WCDMA Band 5

Test Mode	Channel	Frequency (MHz)	PAR (dB)	Limit (dB)
WCDMA	4182	836.4	3.14	13
HSDPA	4182	836.4	3.18	13
HSUPA	4182	836.4	3.16	13

For WCDMA Band 2

Test Mode	Channel	Frequency (MHz)	PAR (dB)	Limit (dB)
WCDMA	9262	1852.4	3.25	13
HSDPA	9400	1852.4	3.22	13
HSUPA	9400	1852.4	3.23	13

WCDMA:



8. EMISSION BANDWIDTH

8.1 Standard Applicable

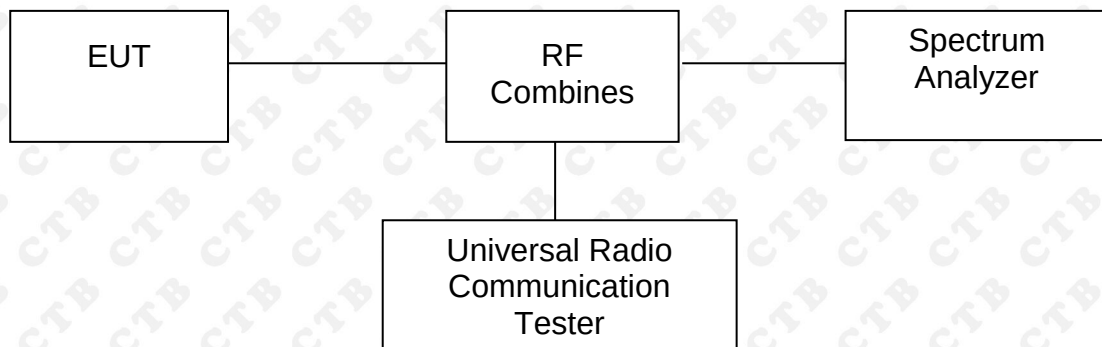
According to §22.917(b), The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

According to §24.238(b), The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

8.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 10kHz for GSM mode and 100kHz for WCDMA mode, VBW shall be at least 3 times the RBW, and the 26dB bandwidth was recorded.

Test Configuration for the emission bandwidth testing:



8.3 Environmental Conditions

Temperature:	23 °C
Relative Humidity:	54%
ATM Pressure:	1010 mbar

8.4 Summary of Test Results/Plots

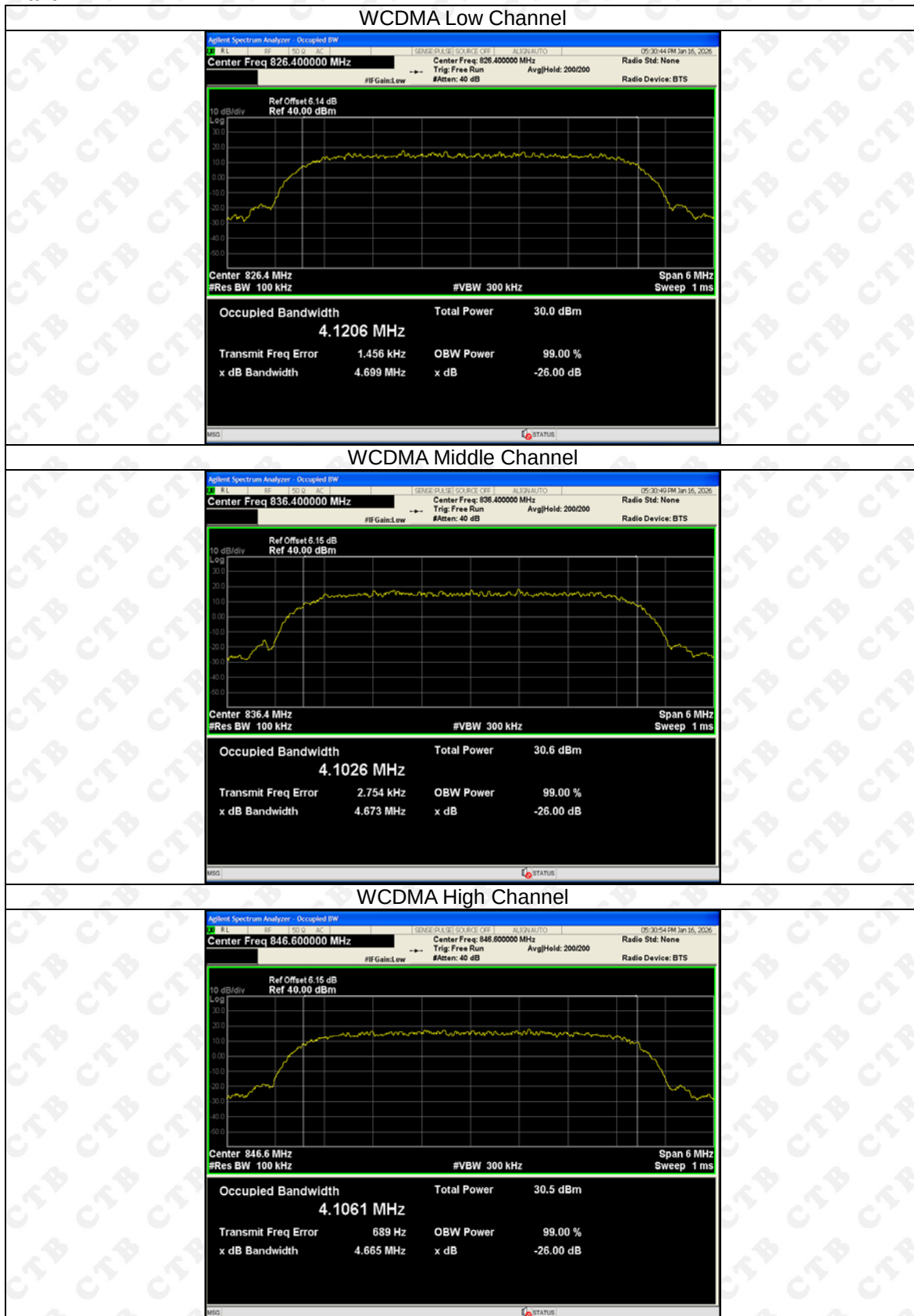
For Band 5

Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
WCDMA	4132	826.4	4120.569	4699.497
	4183	836.6	4102.564	4673.287
	4233	846.6	4106.143	4665.409
HSDPA	4132	826.4	4132.307	4701.910
	4183	836.6	4110.334	4701.421
	4233	846.6	4096.069	4687.120
HSUPA	4132	826.4	4126.820	4665.182
	4183	836.6	4108.398	4684.409
	4233	846.6	4101.385	4657.453

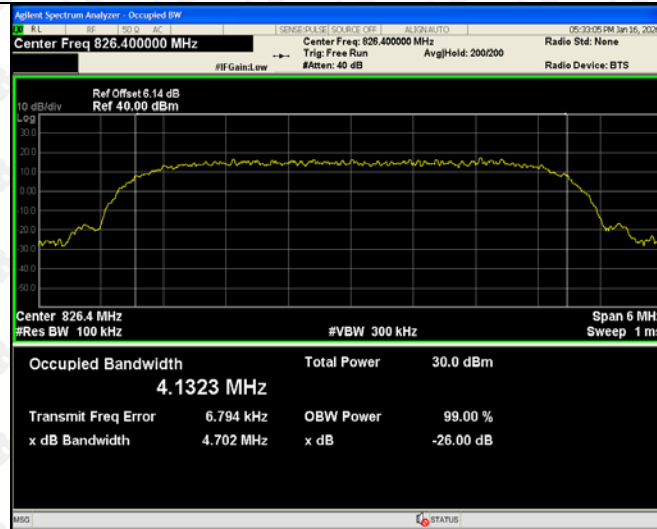
For Band 2

Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
WCDMA	9262	1852.4	4124.859	4689.747
	9400	1880.0	4142.453	4678.342
	9538	1907.6	4119.669	4670.956
HSDPA	9262	1852.4	4131.674	4667.907
	9400	1880.0	4138.829	4693.875
	9538	1907.6	4113.947	4664.223
HSUPA	9262	1852.4	4126.257	4675.483
	9400	1880.0	4103.736	4662.856
	9538	1907.6	4111.035	4663.946

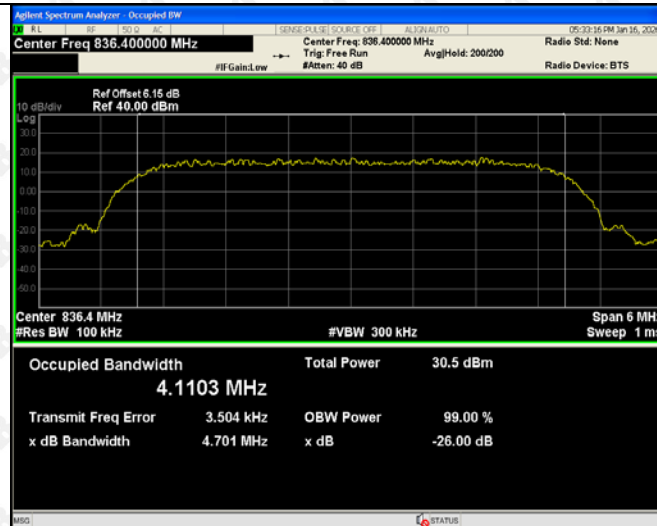
For Band V



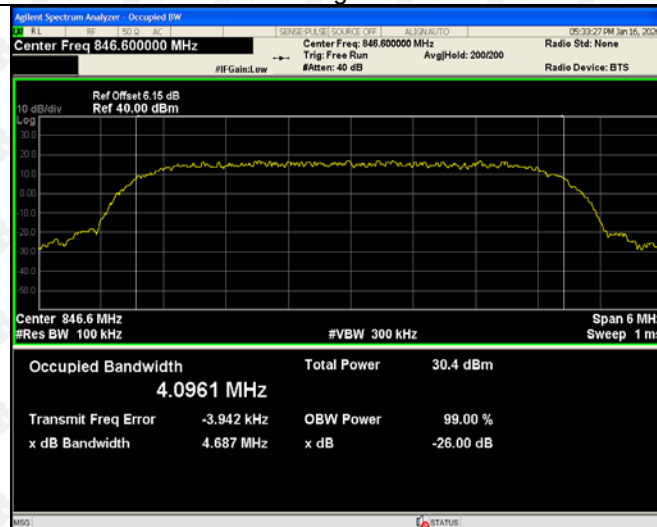
HSDPA Low Channel



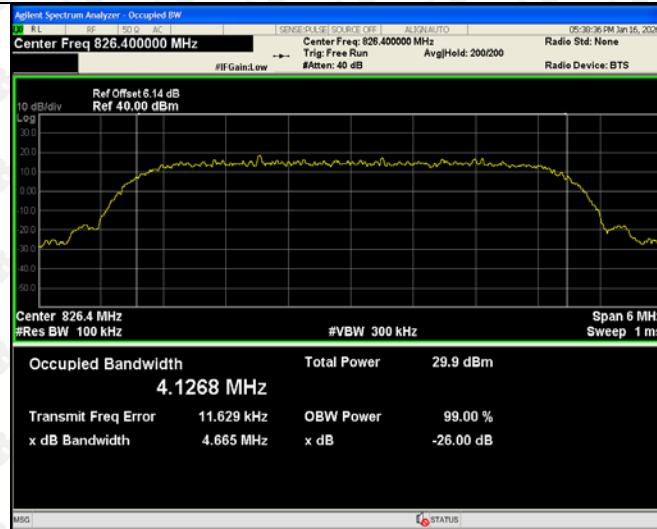
HSDPA Middle Channel



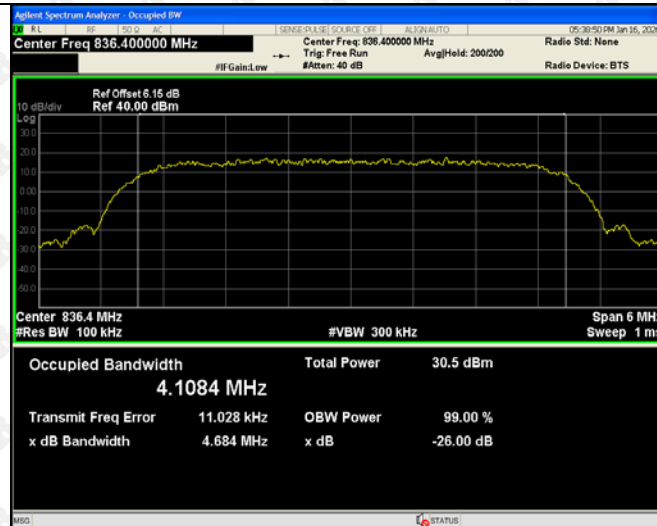
HSDPA High Channel



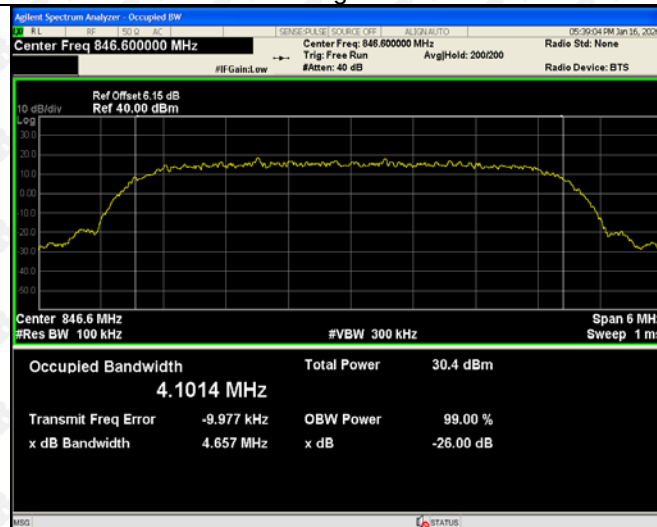
HSUPA Low Channel



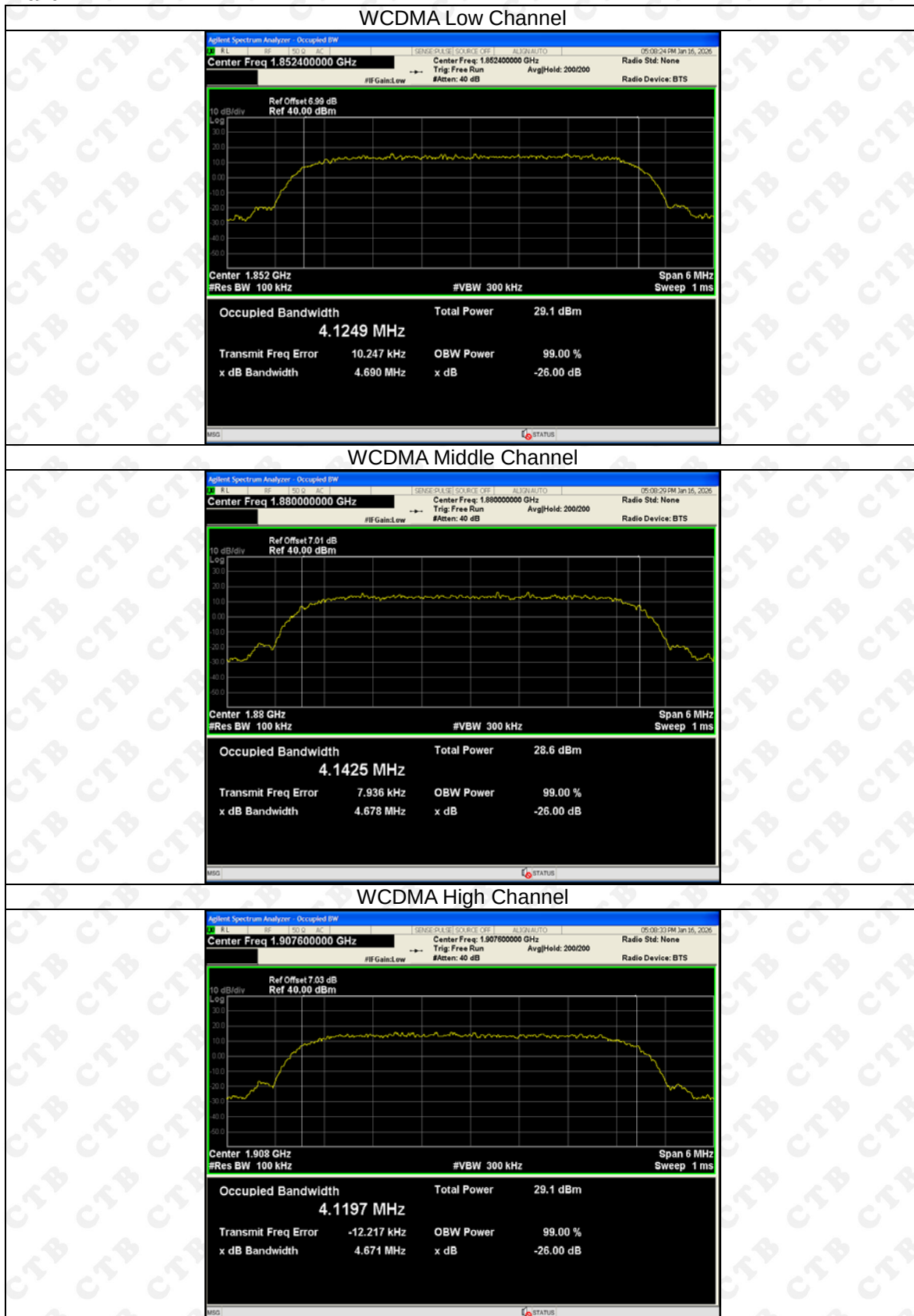
HSUPA Middle Channel



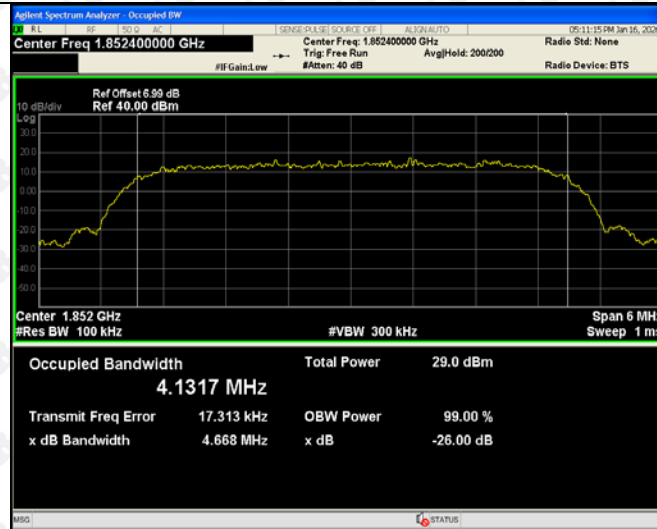
HSUPA High Channel



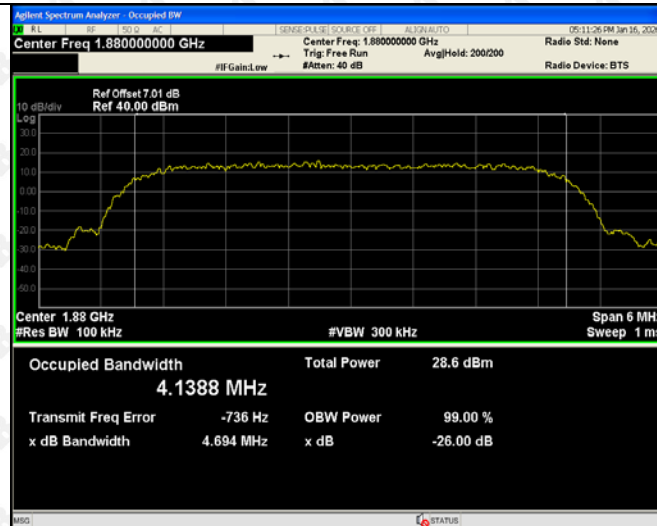
For Band II



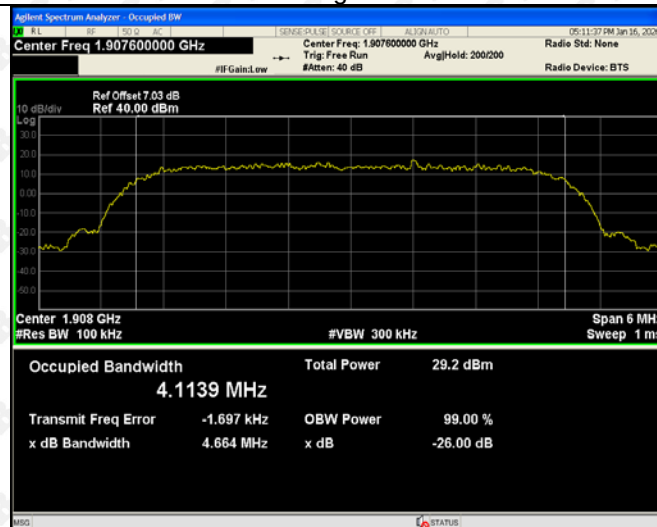
HSDPA Low Channel



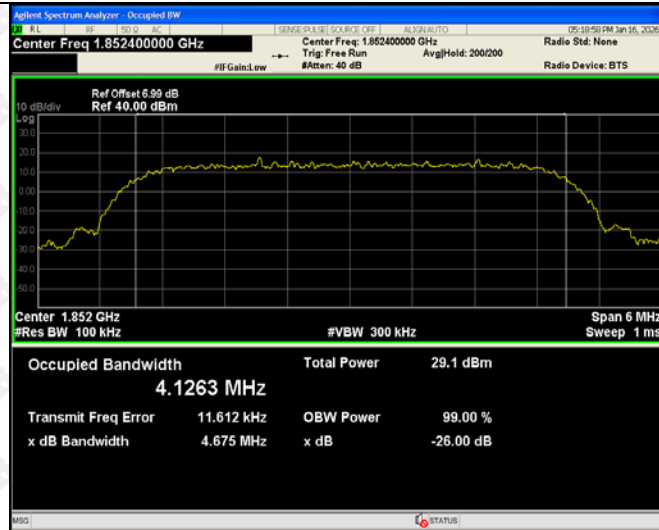
HSDPA Middle Channel



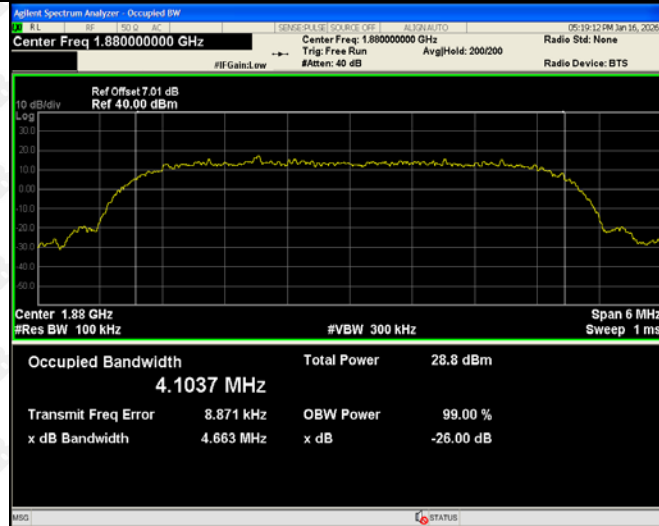
HSDPA High Channel



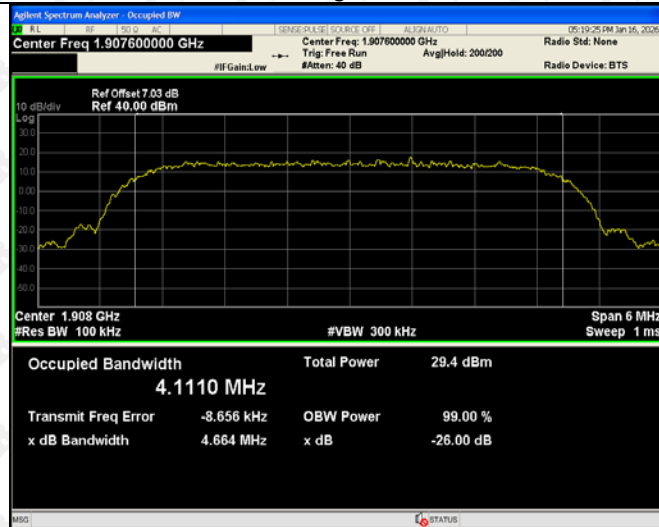
HSUPA Low Channel



HSUPA Middle Channel



HSUPA High Channel



9. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL

9.1 Standard Applicable

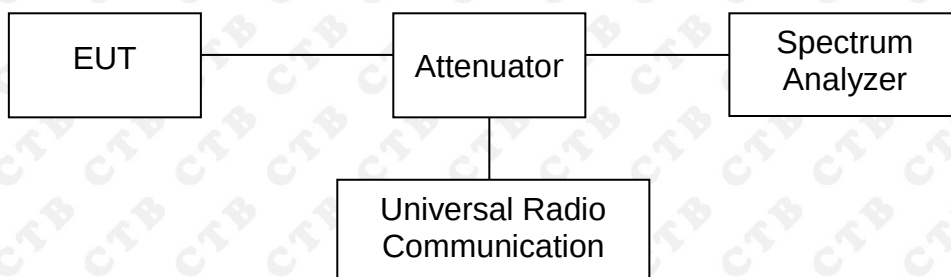
According to §22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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.

9.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 100kHz and 1MHz for the scan frequency from 30MHz to 1GHz and the scan frequency from 1GHz to up to 10th harmonic.

Test Configuration for the out of band emissions testing:

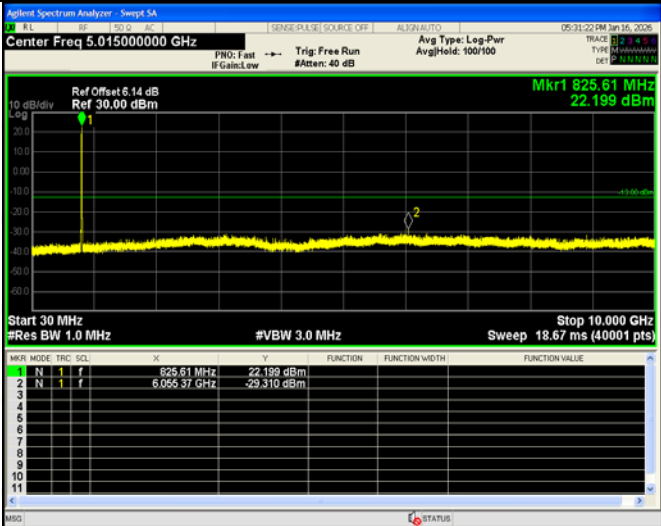
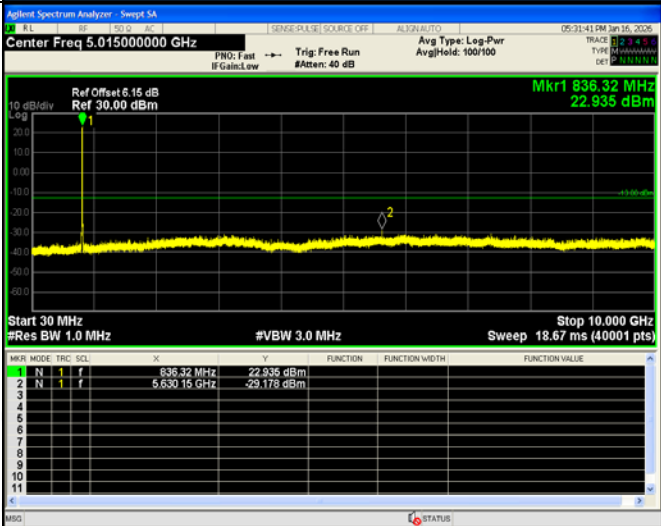
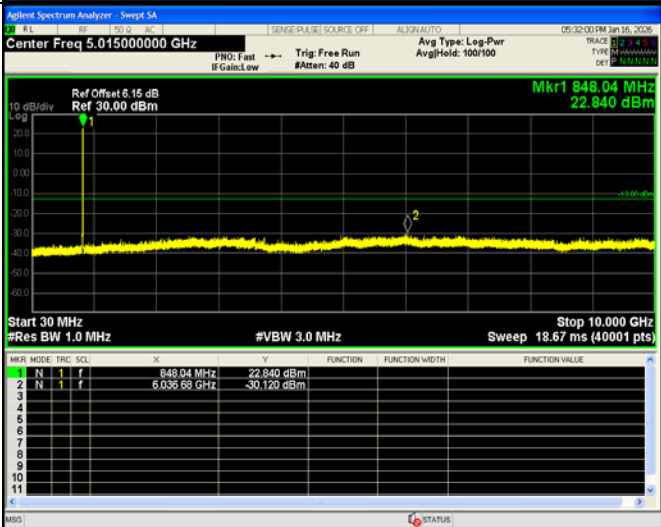


9.3 Environmental Conditions

Temperature:	23 °C
Relative Humidity:	54%
ATM Pressure:	1010 mbar

9.4 Summary of Test Results/Plots

Please refer to the following test plots
For Band V

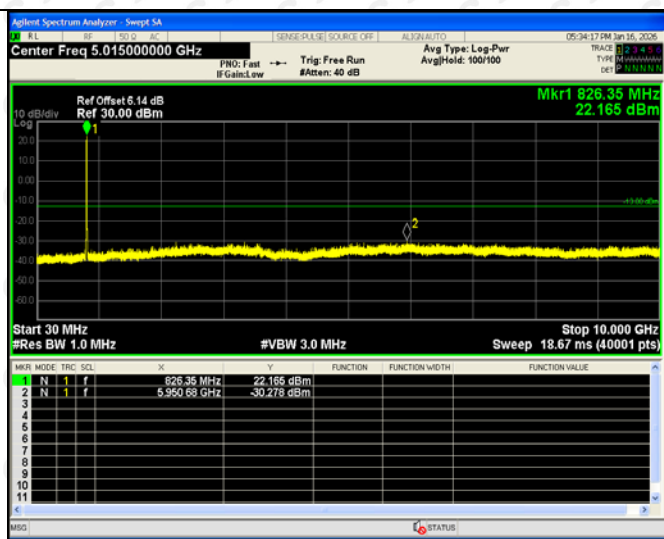
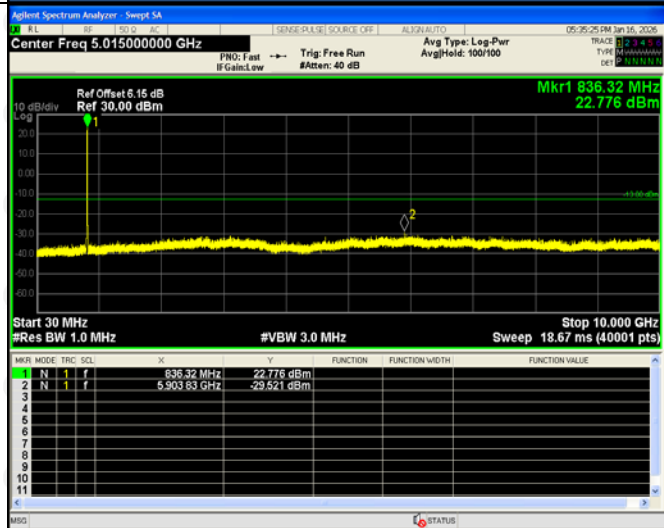
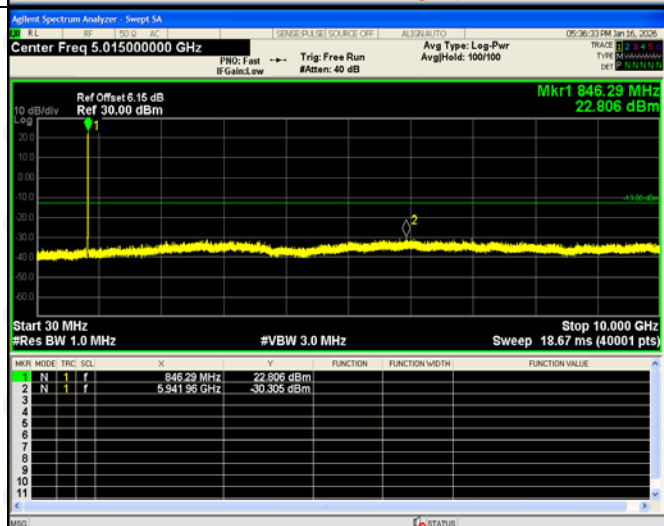
WCDMA Low Channel	
WCDMA Middle Channel	
WCDMA High Channel	

WCDMA
Low
Band
Spurious
Emission



WCDMA
High
Band
Spurious
Emission



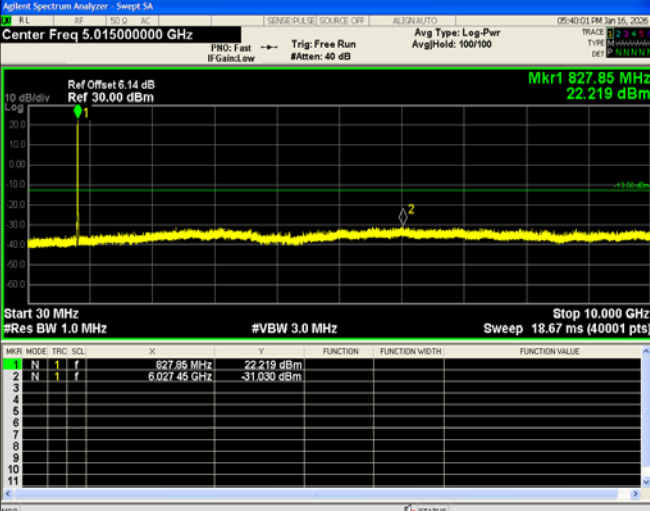
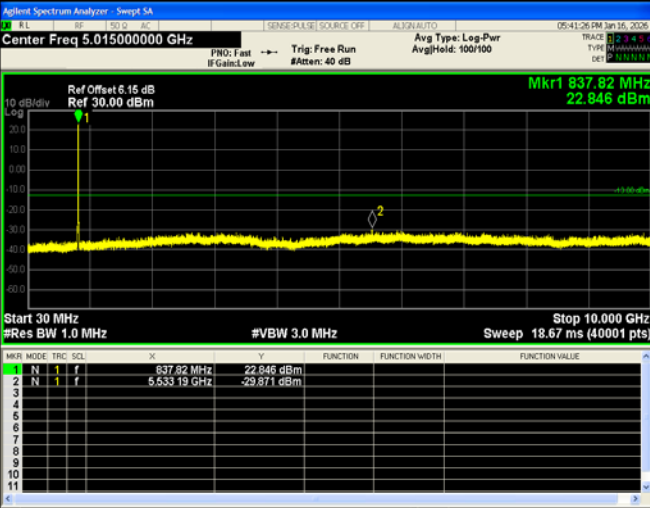
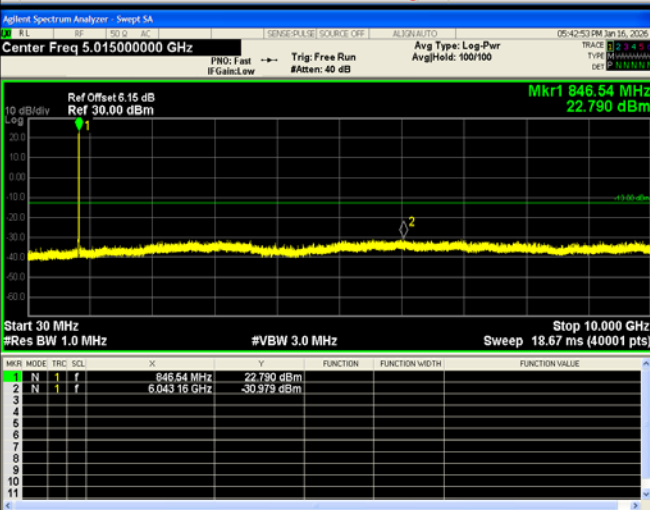
HSDPA Low Channel	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.015000000 GHz Ref Offset 6.14 dB Ref 30.00 dBm Mkr1 826.35 MHz 22.165 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) <table><tr><th>Mkr</th><th>Mode</th><th>Trig</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>826.35 MHz</td><td>22.165 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>5.950 68 GHz</td><td>-30.278 dBm</td><td></td><td></td><td></td></tr></table>	Mkr	Mode	Trig	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	826.35 MHz	22.165 dBm				2	N	1	f	5.950 68 GHz	-30.278 dBm			
Mkr	Mode	Trig	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	826.35 MHz	22.165 dBm																							
2	N	1	f	5.950 68 GHz	-30.278 dBm																							
HSDPA Middle Channel	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.015000000 GHz Ref Offset 6.15 dB Ref 30.00 dBm Mkr1 836.32 MHz 22.776 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) <table><tr><th>Mkr</th><th>Mode</th><th>Trig</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>836.32 MHz</td><td>22.776 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>5.903 83 GHz</td><td>-29.521 dBm</td><td></td><td></td><td></td></tr></table>	Mkr	Mode	Trig	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	836.32 MHz	22.776 dBm				2	N	1	f	5.903 83 GHz	-29.521 dBm			
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2	N	1	f	5.903 83 GHz	-29.521 dBm																							
HSDPA High Channel	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.015000000 GHz Ref Offset 6.15 dB Ref 30.00 dBm Mkr1 846.29 MHz 22.806 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) <table><tr><th>Mkr</th><th>Mode</th><th>Trig</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>846.29 MHz</td><td>22.806 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>5.941 96 GHz</td><td>-30.305 dBm</td><td></td><td></td><td></td></tr></table>	Mkr	Mode	Trig	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	846.29 MHz	22.806 dBm				2	N	1	f	5.941 96 GHz	-30.305 dBm			
Mkr	Mode	Trig	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	846.29 MHz	22.806 dBm																							
2	N	1	f	5.941 96 GHz	-30.305 dBm																							

HSDPA
Low
Band
Spurious
Emission



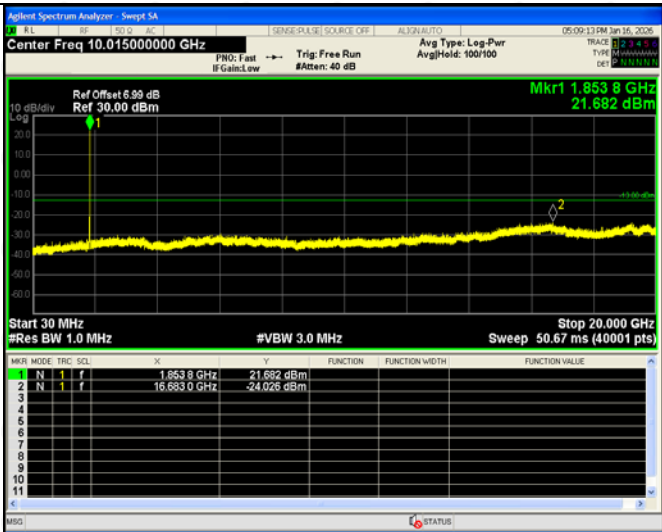
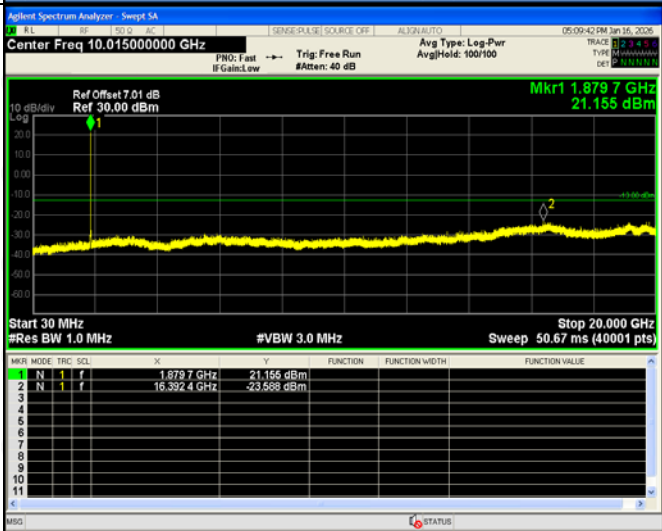
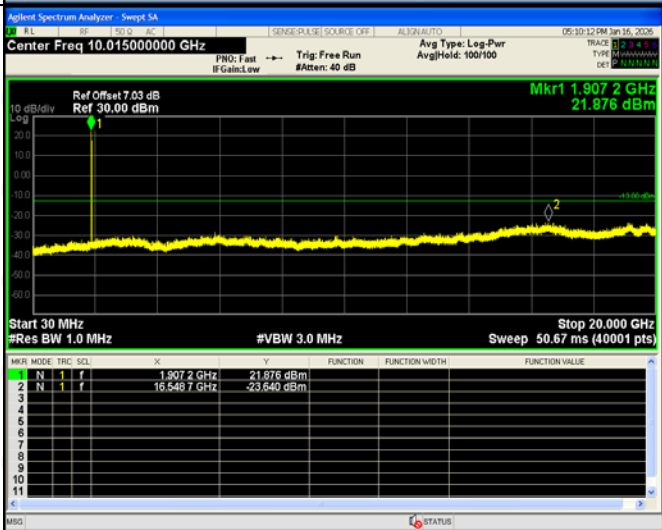
HSDPA
High
Band
Spurious
Emission

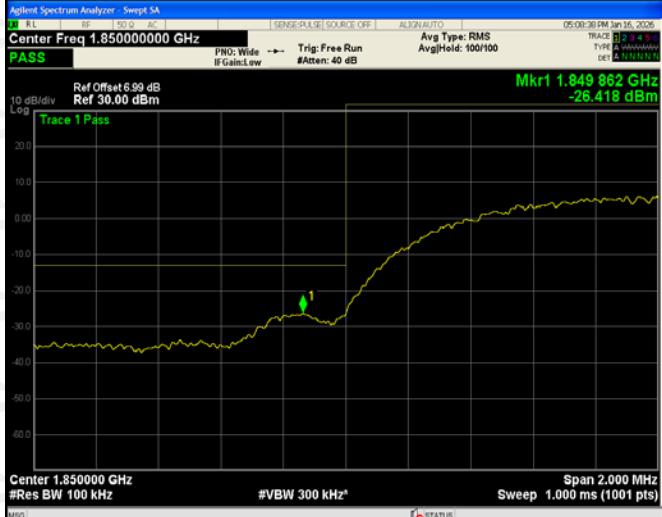


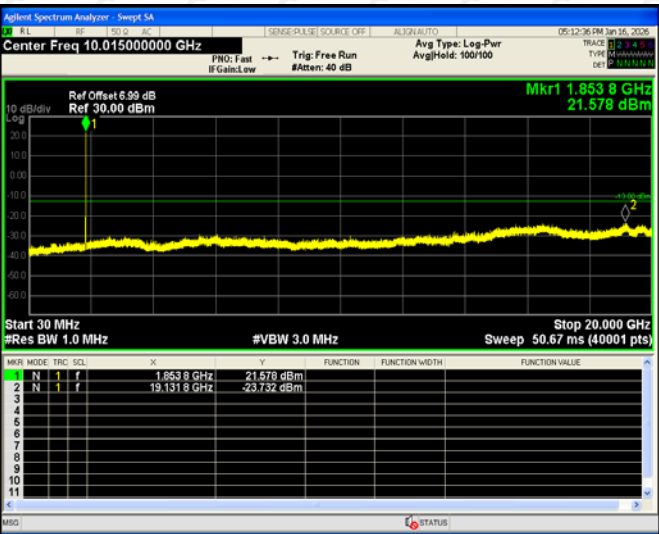
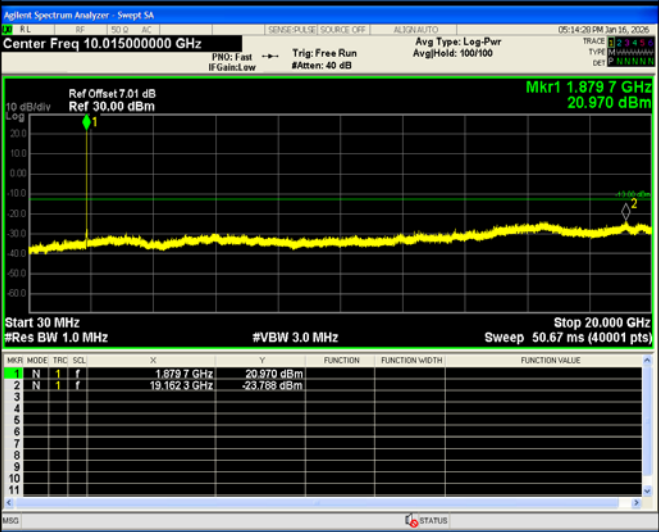
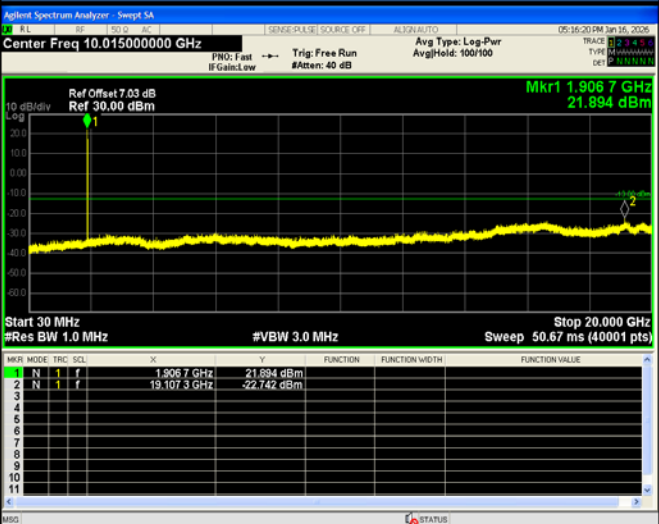
HSUPA Low Channel	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.015000000 GHz Ref Offset: 6.14 dB Ref 30.00 dBm Mkr1 827.85 MHz 22.219 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) <table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>827.85 MHz</td><td>22.219 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>6.027 45 GHz</td><td>-31.030 dBm</td><td></td><td></td><td></td></tr></table>	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	827.85 MHz	22.219 dBm				2	N	1	f	6.027 45 GHz	-31.030 dBm				
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HSUPA Middle Channel	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.015000000 GHz Ref Offset: 6.15 dB Ref 30.00 dBm Mkr1 837.82 MHz 22.846 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) <table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>837.82 MHz</td><td>22.846 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>5.533 19 GHz</td><td>-29.871 dBm</td><td></td><td></td><td></td></tr></table>	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	837.82 MHz	22.846 dBm				2	N	1	f	5.533 19 GHz	-29.871 dBm				
MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																					
1	N	1	f	837.82 MHz	22.846 dBm																								
2	N	1	f	5.533 19 GHz	-29.871 dBm																								
HSUPA High Channel	 Agilent Spectrum Analyzer - Sweep 5A Center Freq 5.015000000 GHz Ref Offset: 6.15 dB Ref 30.00 dBm Mkr1 846.54 MHz 22.790 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 18.67 ms (40001 pts) <table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>846.54 MHz</td><td>22.790 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>6.043 16 GHz</td><td>-30.979 dBm</td><td></td><td></td><td></td></tr></table>	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	846.54 MHz	22.790 dBm				2	N	1	f	6.043 16 GHz	-30.979 dBm				
MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																					
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HSUPA Low Band Spurious Emission	
HSUPA High Band Spurious Emission	

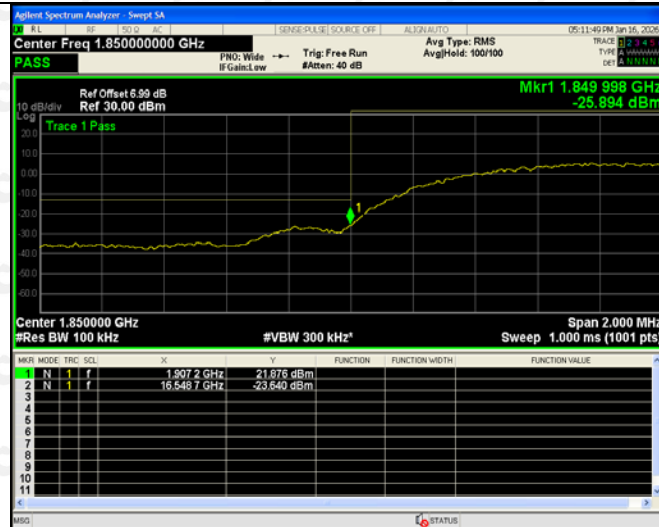
For Band II

WCDMA Low Channel		
WCDMA Middle Channel		
WCDMA High Channel		

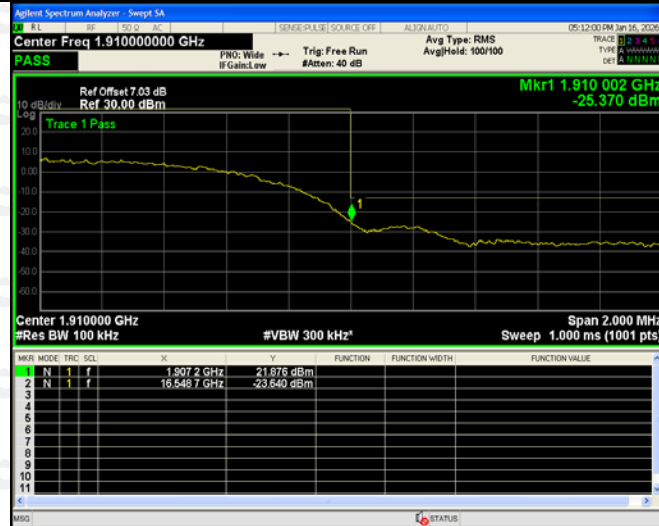
WCDMA Low Band Spurious Emission	
WCDMA High Band Spurious Emission	

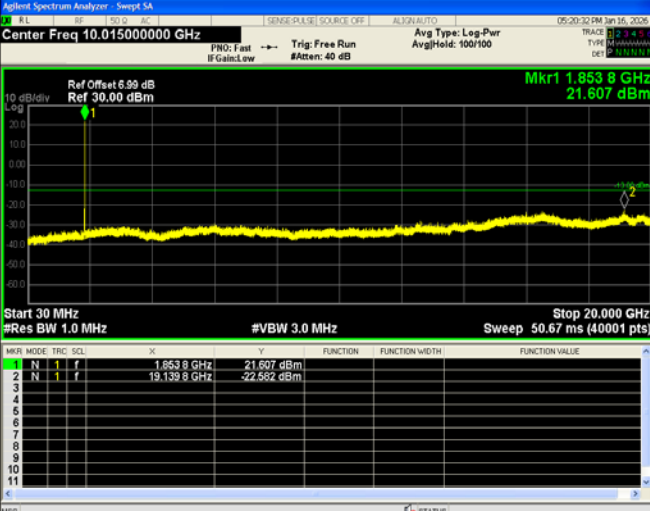
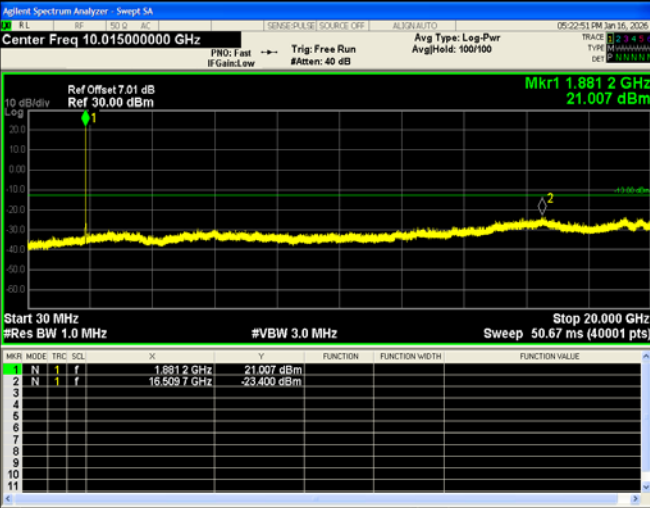
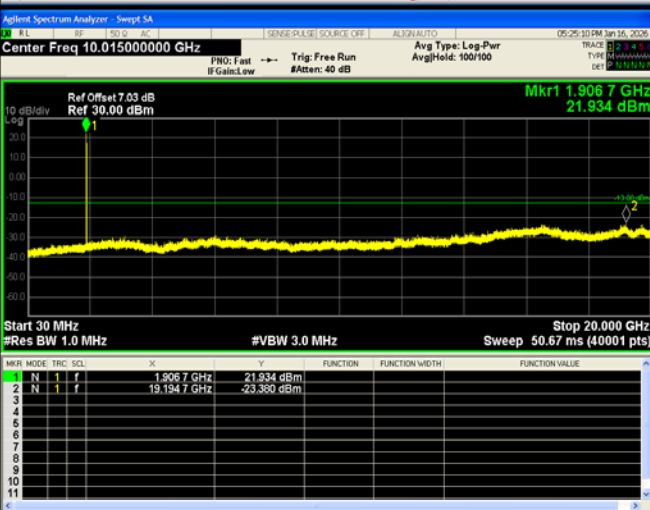
HSDPA Low Channel		
HSDPA Middle Channel		
HSDPA High Channel		

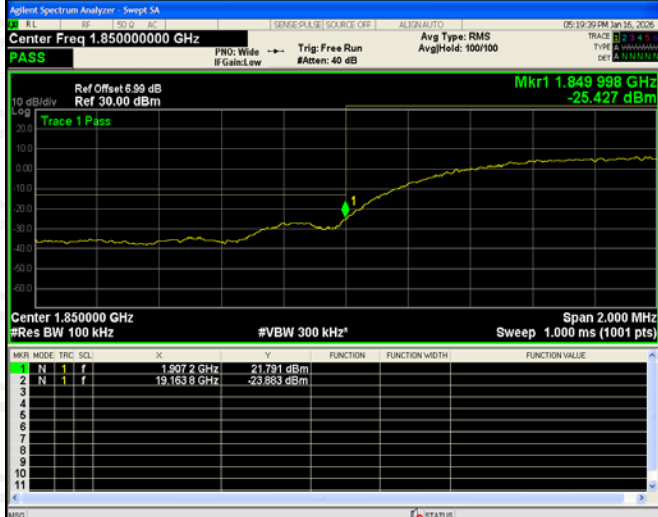
HSDPA
Low
Band
Spurious
Emission



HSDPA
High
Band
Spurious
Emission



HSUPA Low Channel	 Agilent Spectrum Analyzer - Swept SA Center Freq 10.015000000 GHz Ref Offset 6.99 dB Ref 30.00 dBm Mkr1 1.8538 GHz 21.607 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 50.67 ms (40001 pts) <table><thead><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>1.8538 GHz</td><td>21.607 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>19.1398 GHz</td><td>-22.582 dBm</td><td></td><td></td><td></td></tr></tbody></table>	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.8538 GHz	21.607 dBm				2	N	1	f	19.1398 GHz	-22.582 dBm			
MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
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2	N	1	f	19.1398 GHz	-22.582 dBm																							
HSUPA Middle Channel	 Agilent Spectrum Analyzer - Swept SA Center Freq 10.015000000 GHz Ref Offset 7.01 dB Ref 30.00 dBm Mkr1 1.8812 GHz 21.007 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 50.67 ms (40001 pts) <table><thead><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>1.8812 GHz</td><td>21.007 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>16.5097 GHz</td><td>-23.400 dBm</td><td></td><td></td><td></td></tr></tbody></table>	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.8812 GHz	21.007 dBm				2	N	1	f	16.5097 GHz	-23.400 dBm			
MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	1.8812 GHz	21.007 dBm																							
2	N	1	f	16.5097 GHz	-23.400 dBm																							
HSUPA High Channel	 Agilent Spectrum Analyzer - Swept SA Center Freq 10.015000000 GHz Ref Offset 7.03 dB Ref 30.00 dBm Mkr1 1.9067 GHz 21.934 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 50.67 ms (40001 pts) <table><thead><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>1.9067 GHz</td><td>21.934 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>19.1947 GHz</td><td>-23.380 dBm</td><td></td><td></td><td></td></tr></tbody></table>	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.9067 GHz	21.934 dBm				2	N	1	f	19.1947 GHz	-23.380 dBm			
MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
1	N	1	f	1.9067 GHz	21.934 dBm																							
2	N	1	f	19.1947 GHz	-23.380 dBm																							

HSUPA Low Band Spurious Emission		
HSUPA High Band Spurious Emission		

10. SPURIOUS RADIATED EMISSIONS

10.1 Standard Applicable

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.

10.2 Test Procedure

- 1.The setup of EUT is according with per ANSI/TIA Standard 603D and ANSI C63.4-2014 measurement procedure.
- 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.

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

10.3 Environmental Conditions

Temperature:	23 °C
Relative Humidity:	54%
ATM Pressure:	101 kPa
Test Voltage	DC 3.7V

10.4 Summary of Test Results/Plots

According to the data below, the FCC Part22.917 and 24.238 standards, and had the worst margin of:

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

All test modes are performed, but only the worst case is recorded in this report.

For Band 5 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (826.4MHz)						
43.72	-70.16	3.91	-66.25	-13	-53.25	H
1651.57	-53.14	10.56	-42.58	-13	-29.58	H
2476.92	-59.92	13.5	-46.42	-13	-33.42	H
44.05	-70.29	3.93	-66.36	-13	-53.36	V
1649.24	-49.32	10.41	-38.91	-13	-25.91	V
2472.64	-56.22	13.16	-43.06	-13	-30.06	V
Middle Channel (836.6MHz)						
36.59	-74.43	4.02	-70.41	-13	-57.41	H
1672.52	-54.45	4.66	-49.79	-13	-36.79	H
2505.41	-41.41	8.34	-33.07	-13	-20.07	H
45.80	-62.48	4.17	-58.31	-13	-45.31	V
1668.26	-59.37	4.94	-54.43	-13	-41.43	V
2506.20	-61.33	8.19	-53.14	-13	-40.14	V
High Channel (846.6MHz)						
45.45	-68.93	3.87	-65.06	-13	-52.06	H
1691.43	-62.85	4.89	-57.96	-13	-44.96	H
2537.59	-41.82	8.42	-33.40	-13	-20.40	H
39.28	-58.89	3.95	-54.94	-13	-41.94	V
1691.48	-59.84	4.99	-54.85	-13	-41.85	V
2536.15	-62.28	8.12	-54.16	-13	-41.16	V

For Band 2 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (1852.4MHz)						
44.62	-71.77	3.91	-67.86	-13	-54.86	H
1647.97	-56.57	10.56	-46.01	-13	-33.01	H
2472.37	-57.18	13.5	-43.68	-13	-30.68	H
41.99	-64.78	3.93	-60.85	-13	-47.85	V
1643.75	-54.23	10.41	-43.82	-13	-30.82	V
2478.88	-60.71	13.16	-47.55	-13	-34.55	V
Middle Channel (1880MHz)						
44.52	-73.02	4.02	-69.00	-13	-56.00	H
1671.08	-54.27	4.66	-49.61	-13	-36.61	H
2500.67	-44.13	8.34	-35.79	-13	-22.79	H
41.55	-63.08	4.17	-58.91	-13	-45.91	V
1666.70	-55.73	4.94	-50.79	-13	-37.79	V
2501.54	-64.84	8.19	-56.65	-13	-43.65	V
High Channel (1907.6MHz)						
45.27	-70.54	3.87	-66.67	-13	-53.67	H
1683.43	-55.84	4.89	-50.95	-13	-37.95	H
2535.14	-42.51	8.42	-34.09	-13	-21.09	H
43.53	-59.50	3.95	-55.55	-13	-42.55	V
1688.90	-59.07	4.99	-54.08	-13	-41.08	V
2530.96	-59.18	8.12	-51.06	-13	-38.06	V

Note: Result=Reading+ Correct, Margin= Result- Limit

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

11. FREQUENCY STABILITY

11.1 Standard Applicable

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 Cellular Band

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 emission stays within the authorized frequency block.

According to §27.54 The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

11.2 Test Procedure

According to §2.1055, the following test procedure was performed.

The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.

The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode

11.3 Environmental Conditions

Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	101kPa

11.4 Summary of Test Results/Plots

For WCDMA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	0.36	0.00043
40	NV	0.22	0.00027
30	NV	0.11	0.00013
20	NV	1.02	0.00122
10	NV	1.04	0.00124
0	NV	0.55	0.00065
-10	NV	0.70	0.00084
-20	NV	1.15	0.00138
-30	NV	1.24	0.00149

For WCDMA Band 2 Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	0.31	0.00037
40	NV	0.37	0.00044
30	NV	-0.03	-0.00003
20	NV	0.83	0.00099
10	NV	0.44	0.00053
0	NV	0.86	0.00102
-10	NV	1.19	0.00142
-20	NV	1.08	0.00129
-30	NV	1.39	0.00166

For HSDPA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	0.95	0.00113
40	NV	0.20	0.00024
30	NV	0.72	0.00086
20	NV	0.96	0.00115
10	NV	1.11	0.00132
0	NV	1.55	0.00186
-10	NV	1.29	0.00154
-20	NV	1.75	0.00209
-30	NV	2.04	0.00244

For HSDPA Band 2 Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	-0.45	-0.00024
40	NV	-0.01	0.00000
30	NV	0.20	0.00010
20	NV	1.04	0.00055
10	NV	0.85	0.00045
0	NV	1.22	0.00065
-10	NV	1.22	0.00065
-20	NV	1.21	0.00064
-30	NV	1.36	0.00072

For HSUPA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	-0.36	-0.00019
40	NV	0.23	0.00012
30	NV	-0.13	-0.00007
20	NV	0.17	0.00009
10	NV	0.91	0.00049
0	NV	1.35	0.00072
-10	NV	1.10	0.00058
-20	NV	1.41	0.00075
-30	NV	2.28	0.00121

For HSUPA Band 2 Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	4.92	0.00262
40	NV	4.59	0.00244
30	NV	4.91	0.00261
20	NV	5.64	0.00300
10	NV	6.23	0.00331
0	NV	6.68	0.00355
-10	NV	6.35	0.00338
-20	NV	6.84	0.00364
-30	NV	7.03	0.00374

So, Frequency Stability Versus Input Voltage is:

Reference Frequency(Middle Channel): WCDMA 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	0.98	0.00117
	NV	1.56	0.00186
	HV	1.37	0.00163
Reference Frequency(Middle Channel): WCDMA 1732.4MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	0.78	0.00045
	NV	0.82	0.00048
	HV	1.42	0.00082
Reference Frequency(Middle Channel): WCDMA 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	2.11	0.00112
	NV	2.64	0.00315
	HV	3.38	0.00404

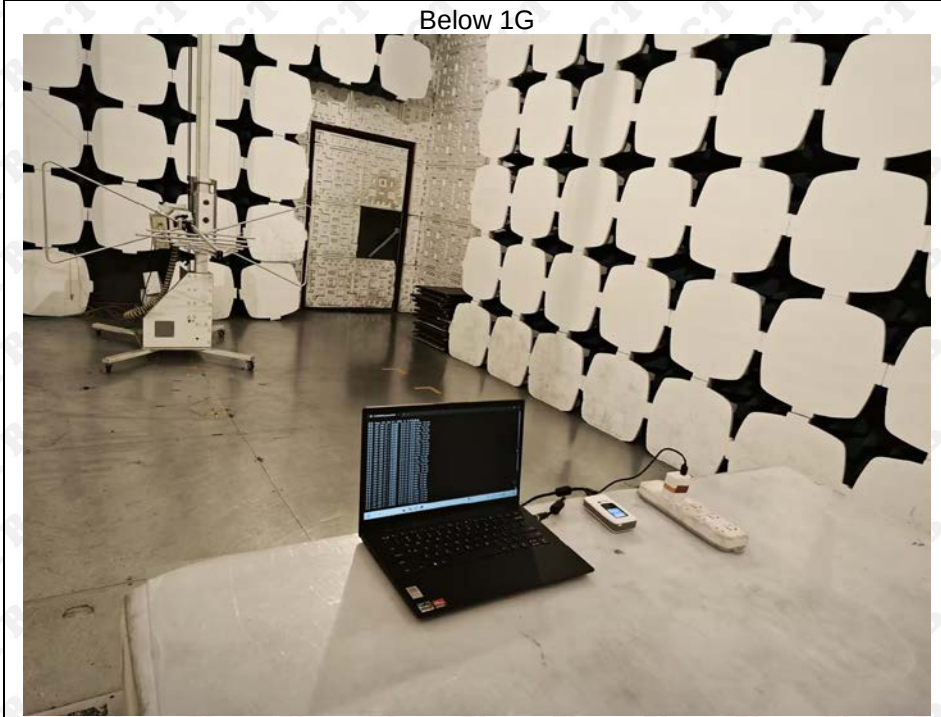
Reference Frequency(Middle Channel): HSDPA 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	1.92	0.00230
	NV	1.95	0.00233
	HV	2.20	0.00263
Reference Frequency(Middle Channel): HSDPA 1732.4MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	6.21	0.00358
	NV	6.24	0.00360
	HV	6.28	0.00363
Reference Frequency(Middle Channel): HSDPA 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	6.85	0.00364
	NV	7.21	0.00383
	HV	7.40	0.00394

Reference Frequency(Middle Channel): HSUPA 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	2.59	0.00309
	NV	2.96	0.00354
	HV	3.25	0.00389
Reference Frequency(Middle Channel): HSUPA 1732.4MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	5.80	0.00335
	NV	5.69	0.00328
	HV	6.15	0.00355
Reference Frequency(Middle Channel): HSUPA 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	8.92	0.00475
	NV	9.55	0.00508
	HV	9.05	0.00481

12. EUT TEST PHOTO

Radiated Emission

Below 1G



Above 1G



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