

FCC Radio Test Report

FCC ID: ZMOSU806LA

This report concerns: Original Grant

Project No. : 2205C056
Equipment : LTE Module
Brand Name : Fibocom
Test Model : SU806-LA
Series Model : N/A
Applicant : Fibocom Wireless Inc.
Address : 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Manufacturer : Fibocom Wireless Inc.
Address : 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Date of Receipt : May 16, 2022
Date of Test : May 18, 2022 ~ Jun. 11, 2022
Issued Date : Jun. 13, 2022
Report Version : R00
Test Sample : Engineering Sample No.: DG20220516111 for radiated, DG20220516107 and DG20220516110 for conducted.
Standard(s) : 47 CFR FCC Part 22 Subpart H
47 CFR FCC Part 2
ANSI/TIA/EIA-603-E-2016
ANSI C63.26-2015
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Gabriel Zhu

Prepared by : Gabriel Zhu

Steven Lu

Approved by : Steven Lu



TESTING CERT #5123.02

Add: No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792
People's Republic of China
Tel: +86-769-8318-3000
Web: www.newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NIST, A2LA, or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and is not use in determining the Pass/Fail results.

Table of Contents	Page
REPORT ISSUED HISTORY	5
1 . SUMMARY OF TEST RESULTS	6
1.1 TEST FACILITY	7
1.2 MEASUREMENT UNCERTAINTY	7
1.3 TEST ENVIRONMENT CONDITIONS	8
2 . GENERAL INFORMATION	9
2.1 GENERAL DESCRIPTION OF EUT	9
2.2 DESCRIPTION OF TEST MODES	11
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATIONOFSYSTEMTESTED	13
2.4 DESCRIPTION OF SUPPORT UNITS	13
3 . TEST RESULT	14
3.1 OUTPUT POWER MEASUREMENT	14
3.1.1 LIMIT	14
3.1.2 TEST PROCEDURE	14
3.1.3 TEST SETUP LAYOUT	14
3.1.4 TEST DEVIATION	14
3.1.5 TEST RESULTS	14
3.2 OCCUPIED BANDWIDTH MEASUREMENT	15
3.2.1 TEST PROCEDURE	15
3.2.2 TEST SETUP LAYOUT	15
3.2.3 TEST DEVIATION	15
3.2.4 TEST RESULTS	15
3.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	16
3.3.1 LIMIT	16
3.3.2 TEST PROCEDURES	16
3.3.3 TEST SETUP LAYOUT	16
3.3.4 TEST DEVIATION	16
3.3.5 TEST RESULTS	16
3.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT	17
3.4.1 LIMIT	17
3.4.2 TEST PROCEDURES	17
3.4.3 TEST SETUP LAYOUT	18
3.4.4 TEST DEVIATION	19
3.4.5 TEST RESULTS (9KHZ TO 30MHZ)	19
3.4.6 TEST RESULTS (30MHZ TO 1000MHZ)	19
3.4.7 TEST RESULTS (ABOVE 1000MHZ)	19
3.5 BAND EDGE MEASUREMENT	20
3.5.1 LIMIT	20

Table of Contents	Page
3.5.2 TEST PROCEDURES	20
3.5.3 TEST SETUP LAYOUT	20
3.5.4 TEST DEVIATION	20
3.5.5 TEST RESULTS	20
3.6 PEAK TO AVERAGE RATIO MEASUREMENT	21
3.6.1 LIMIT	21
3.6.2 TEST PROCEDURES	21
3.6.3 TEST SETUP LAYOUT	21
3.6.4 TEST DEVIATION	21
3.6.5 TEST RESULTS	21
3.7 FREQUENCY STABILITY MEASUREMENT	22
3.7.1 LIMIT	22
3.7.2 TEST PROCEDURES	22
3.7.3 TEST SETUP LAYOUT	22
3.7.4 TEST DEVIATION	22
3.7.5 TEST RESULTS	22
4. LIST OF MEASUREMENT EQUIPMENTS	23
5. EUT TEST PHOTO	25
APPENDIX A - OUTPUT POWER	28
APPENDIX B - OCCUPIED BANDWIDTH	35
APPENDIX C - CONDUCTED SPURIOUS EMISSIONS	43
APPENDIX D - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)	47
APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)	49
APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)	53
APPENDIX G - BAND EDGE	57
APPENDIX H - PEAK TO AVERAGE RATIO	64
APPENDIX I - FREQUENCY STABILITY	72

REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2205C056	R00	Original Report.	Jun. 13, 2022	Valid

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 22 Subpart H & Part 2			
Standard(s) Section	Test Item	Judgment	Remark
2.1046 22.913(a)(5)	Effective Radiated Power	PASS	-----
2.1049	Occupied Bandwidth	PASS	-----
2.1051 22.917(a)	Conducted Spurious Emissions	PASS	-----
2.1053 22.917(a)	Radiated Spurious Emissions	PASS	-----
22.917(a)	Band Edge Measurements	PASS	-----
-	Peak To Average Ratio	PASS	Record Only
2.1055 22.355	Frequency Stability	PASS	-----

Note:

(1) "N/A" denotes test is not applicable in this test report.

1.1 TEST FACILITY

The test facilities used to collect the test data of radiated in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.

The test facilities used to collect the test data of conducted in this report is at the location of Room 108, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03	CISPR	30MHz ~ 200MHz	V	4.36
		30MHz ~ 200MHz	H	3.32
		200MHz ~ 1,000MHz	V	4.08
		200MHz ~ 1,000MHz	H	3.96
		1GHz ~ 6GHz	-	3.80
		6GHz ~ 18GHz	-	4.82

B. Other Measurement:

Parameter	Uncertainty
Spectrum Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Power Spectral Density	±0.86 dB
Frequency Stability	±0.16 dB
Temperature	±0.08 °C
Time	±0.58 %
Supply voltages	±0.3 %

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Output Power & ERP	23~25°C	33~37%	DC 3.8V	Rick Liao
Occupied Bandwidth	23~25°C	33~37%	DC 3.8V	Rick Liao
Conducted Spurious Emissions	23~25°C	33~37%	DC 3.8V	Rick Liao
Radiated Spurious Emissions (9 kHz to 30 MHz)	24°C	60%	DC 3.8V	Rod Tang
Radiated Spurious Emissions (30 MHz to 1000 MHz)	22°C	50~51%	DC 3.8V	Berton Luo
Radiated Spurious Emissions (Above 1000 MHz)	22°C	50~51%	DC 3.8V	Berton Luo
Band Edge	23~25°C	33~37%	DC 3.8V	Rick Liao
Peak to Average Ratio	23~25°C	33~37%	DC 3.8V	Rick Liao
Frequency Stability	Normal & Extreme	33~37%	Normal & Extreme	Rick Liao

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	LTE Module			
Brand Name	Fibocom			
Test Model	SU806-LA			
Series Model	N/A			
Model Difference(s)	N/A			
Hardware Version	V1.0			
Software Version	SU806-LA-Q3E. 01. 101			
Power Source	DC voltage supplied from external power supply.			
Power Rating	Supply voltage: 3.5~4.2V, Typical supply voltage: 3.8V			
IMEI No.	Radiated	862147060002785		
	Conducted	862147060000789, 862147060001225		
Modulation Type	GSM/GPRS		GMSK	
	EDGE		GMSK, 8PSK	
	WCDMA/HSDPA/HSUPA		UL: QPSK, 16QAM DL: QPSK, 16QAM, 64QAM	
	LTE		UL: QPSK, 16QAM DL: QPSK, 16QAM, 64QAM	
Max. ERP	GSM 850 / GPRS 850		GMSK	31.15 dBm
	EDGE 850		8PSK	24.60 dBm
	WCDMA Band V		QPSK	22.78 dBm
	HSDPA Band V		QPSK	21.61 dBm
	HSUPA Band V		QPSK	21.09 dBm
	LTE	Channel Bandwidth (MHz)	QPSK (dBm)	16QAM (dBm)
	Band 5	1.4	22.71	22.25
		3	22.71	22.34
		5	22.49	21.23
		10	22.69	21.91

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

GSM 850				
Test Frequency ID	UARFCN	Frequency of Uplink (MHz)	UARFCN	Frequency of Downlink (MHz)
Low Range	128	824.2	137	869.2
Mid Range	190	836.6	199	881.6
High Range	251	848.8	260	893.8

WCDMA Band V				
Test Frequency ID	UARFCN	Frequency of Uplink (MHz)	UARFCN	Frequency of Downlink (MHz)
Low Range	4132	826.4	4357	871.4
Mid Range	4182	836.4	4407	881.4
High Range	4233	846.6	4458	891.6

LTE Band 5					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	20407	824.7	2407	869.7
	3	20415	825.5	2415	870.5
	5	20425	826.5	2425	871.5
	10	20450	829	2450	874
Mid Range	1.4/3/5/10	20525	836.5	2525	881.5
High Range	1.4	20643	848.3	2643	893.3
	3	20635	847.5	2635	892.5
	5	20625	846.5	2625	891.5
	10	20600	844	2600	889

3. Table for Filed Antenna:

Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)	Note
shenzhen bogesi communication technology co., ltd	GHT-019A	Dipole	SMA Male J	1.32	GSM 850
				1.32	WCDMA Band V
				1.32	LTE Band 5

Note: The antenna gain is provided by the manufacturer.

2.2 DESCRIPTION OF TEST MODES

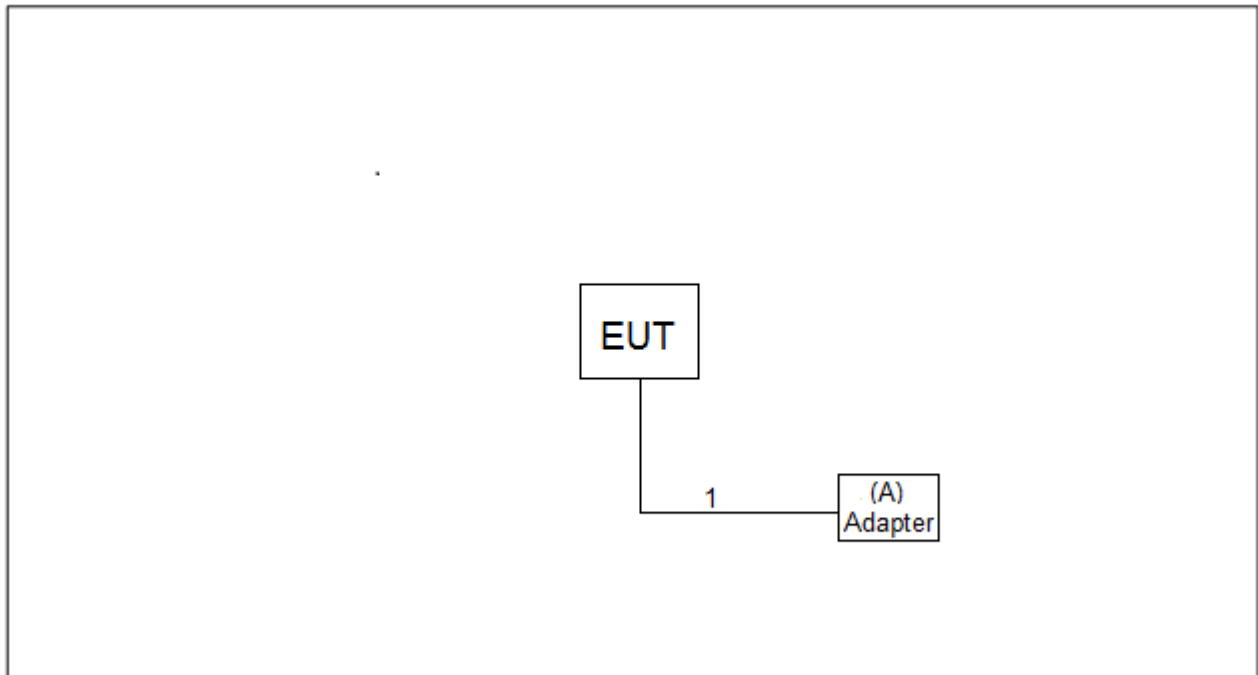
Following mode(s) is (were) found to be the worst case(s) and selected for the final test.

GSM MODE			
Test Item	Available Channel	Tested Channel	Mode
Output Power & ERP	128 to 251	128, 190, 251	GSM, GPRS, EDGE
Occupied Bandwidth	128 to 251	128, 190, 251	GSM, EDGE
Conducted Spurious Emissions	128 to 251	190	GSM, EDGE
Radiated Spurious Emissions	128 to 251	190	GSM
Band Edge	128 to 251	128, 251	GSM, EDGE
Peak to Average Ratio	128 to 251	128, 190, 251	GSM, EDGE
Frequency Stability	128 to 251	190	GSM

WCDMA BAND V MODE			
Test Item	Available Channel	Tested Channel	Mode
Output Power & ERP	4132 to 4233	4132, 4182, 4233	WCDMA, HSDPA, HSUPA
Occupied Bandwidth	4132 to 4233	4132, 4182, 4233	WCDMA
Conducted Spurious Emissions	4132 to 4233	4182	WCDMA
Radiated Spurious Emissions	4132 to 4233	4182	WCDMA
Band Edge	4132 to 4233	4132, 4233	WCDMA
Peak To Average Ratio	4132 to 4233	4132, 4182, 4233	WCDMA
Frequency Stability	4132 to 4233	4182	WCDMA

LTE BAND 5 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	1RB/3RB/6RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1RB/8RB/15RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1RB/25RB/50RB
Occupied Bandwidth	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	6RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	15RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	25RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	50RB
Conducted Spurious Emissions	20407 to 20643	20525	1.4MHz	QPSK	1RB
	20425 to 20625	20525	5MHz	QPSK	1RB
	20450 to 20600	20525	10MHz	QPSK	1RB
Radiated Spurious Emissions	20407 to 20643	20525	1.4MHz	QPSK	1RB
	20425 to 20625	20525	5MHz	QPSK	1RB
	20450 to 20600	20525	10MHz	QPSK	1RB
Band Edge	20407 to 20643	20407, 20643	1.4MHz	QPSK	1RB/6RB
	20415 to 20635	20415, 20635	3MHz	QPSK	1RB/15RB
	20425 to 20625	20425, 20625	5MHz	QPSK	1RB/25RB
	20450 to 20600	20450, 20600	10MHz	QPSK	1RB/50RB
Peak To Average Ratio	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	1RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1RB
Frequency Stability	20450 to 20600	20525	10MHz	QPSK	50RB

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATIONOFSYSTEMTESTED



2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
A	Adapter	HUAWEI	HW-100225B00	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	NO	NO	1.2m

3. TEST RESULT

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMIT

Mobile / Portable station are limited to 7 watts e.r.p.

3.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.

EIRP / ERP:

$EIRP = \text{Output Power} + \text{Antenan gain}$

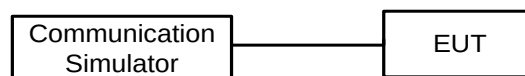
$ERP = EIPR - 2.15\text{dBi}$

Output Power:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

3.1.3 TEST SETUP LAYOUT

Output Power Measurement



3.1.4 TEST DEVIATION

No deviation.

3.1.5 TEST RESULTS

Please refer to the APPENDIX A.

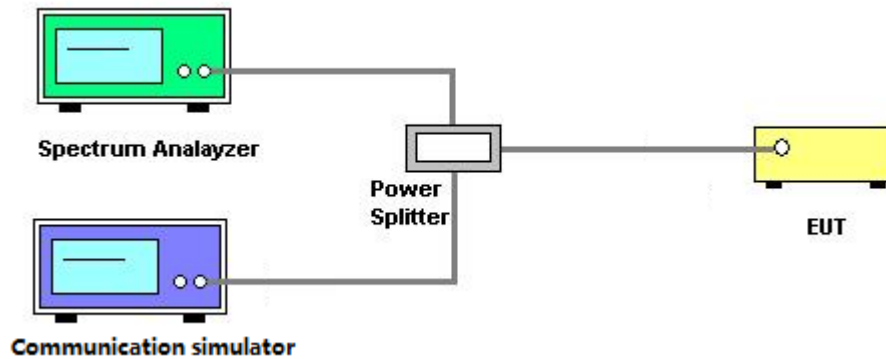
3.2 OCCUPIED BANDWIDTH MEASUREMENT

3.2.1 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 4.

1. The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. $RBW = (1\% \sim 5\%) * EBW$
 $VBW \geq 3 * RBW$
4. Set spectrum analyzer with Peak detector.

3.2.2 TEST SETUP LAYOUT



3.2.3 TEST DEVIATION

No deviation.

3.2.4 TEST RESULTS

Please refer to the APPENDIX B.

3.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

3.3.1 LIMIT

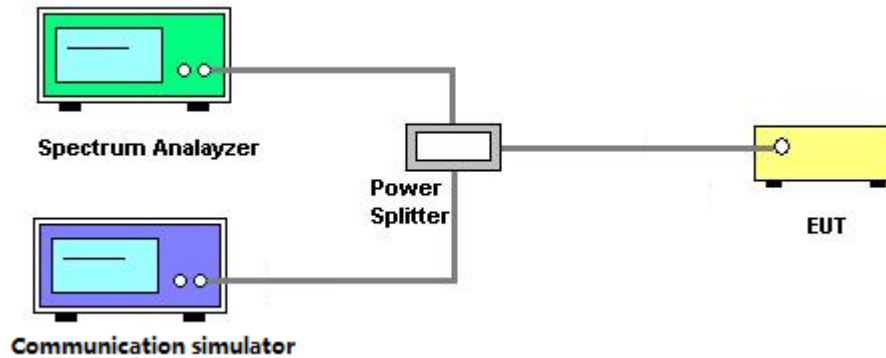
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

3.3.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with Peak detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.3.3 TEST SETUP LAYOUT



3.3.4 TEST DEVIATION

No deviation.

3.3.5 TEST RESULTS

Please refer to the APPENDIX C.

3.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

3.4.1 LIMIT

The power of any emission 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. The emission limit equal to -13dBm.

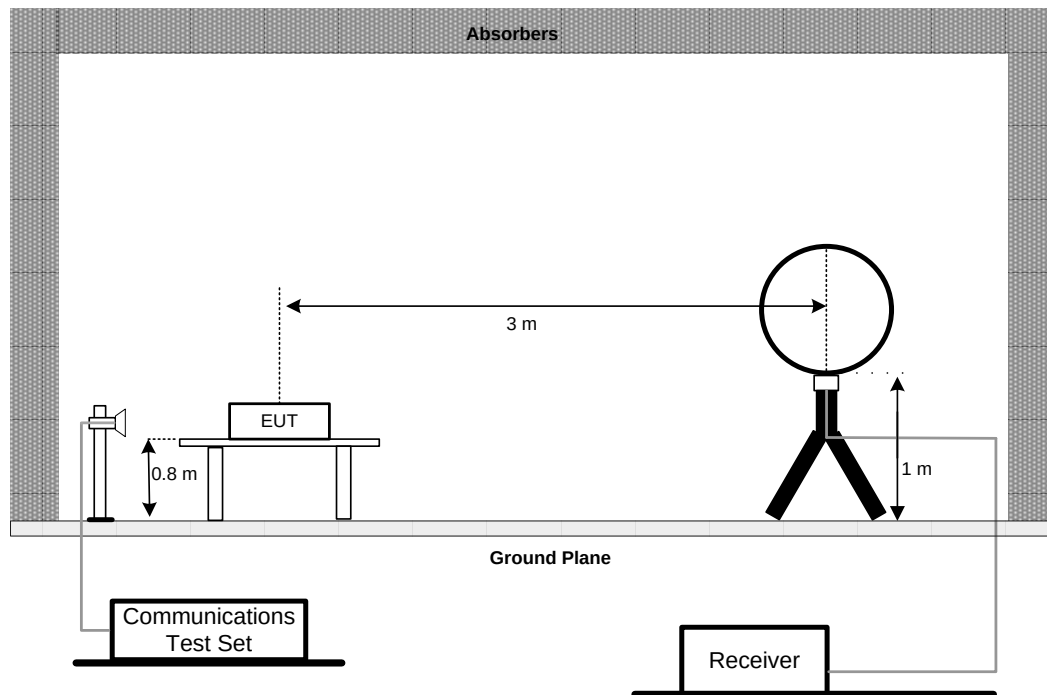
3.4.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.2.

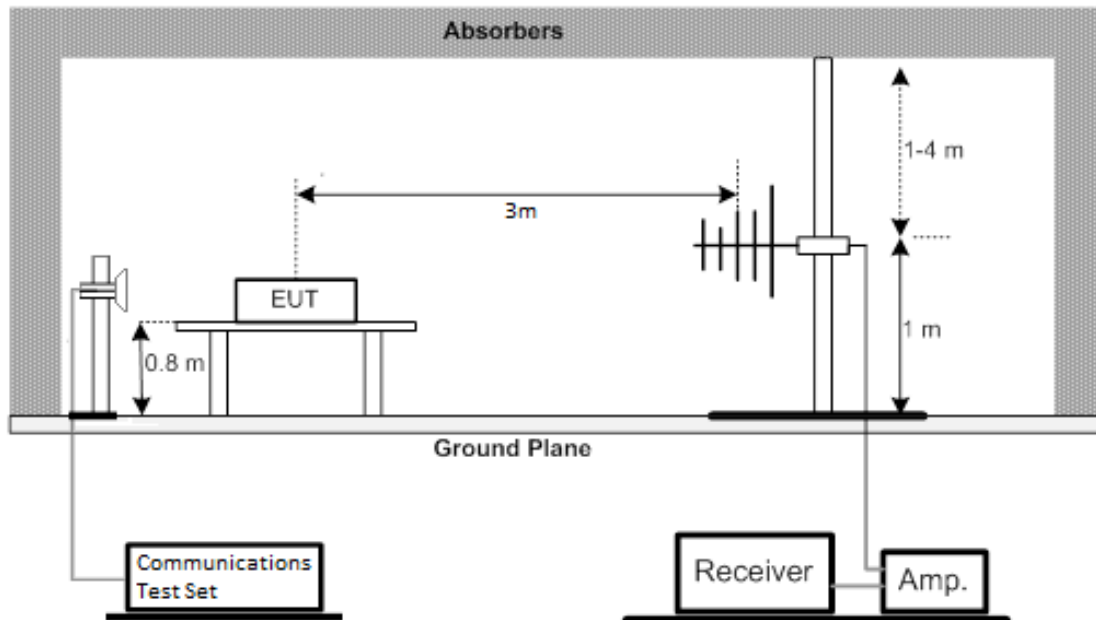
1. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
2. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
3. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
4. ERP can be calculated form EIRP by subtracting the gain of dipole, $ERP = EIPR - 2.15\text{dBi}.$
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

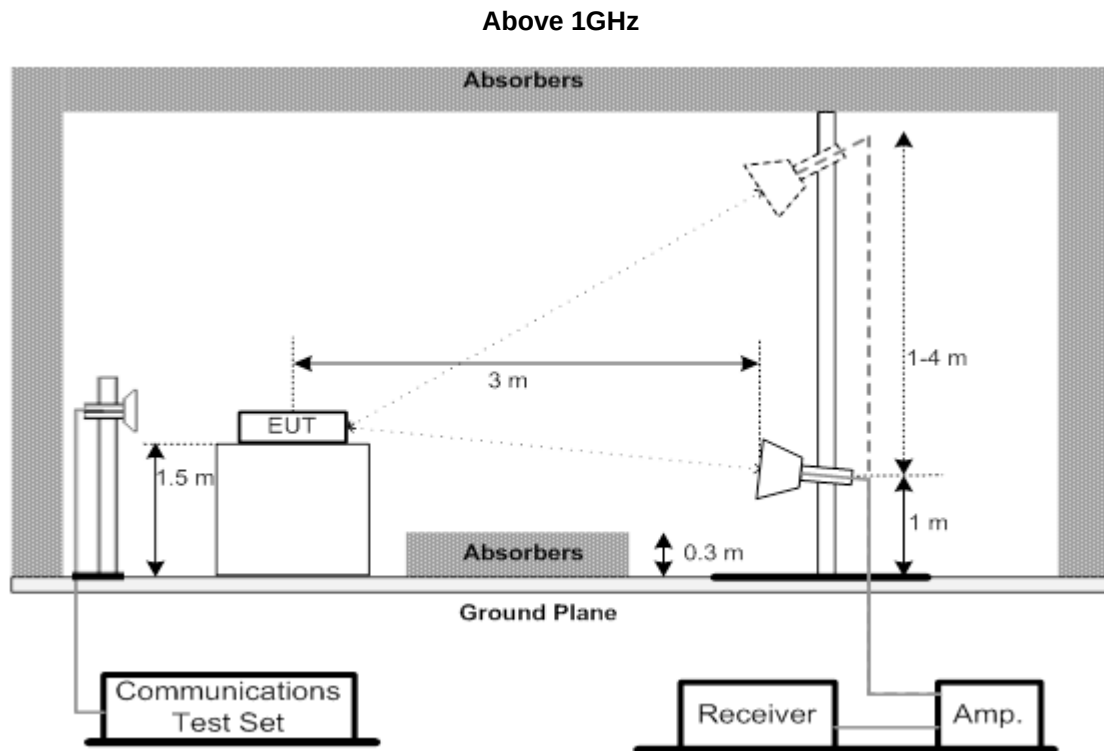
3.4.3 TEST SETUP LAYOUT

Below 30MHz



30MHz to 1000MHz





3.4.4 TEST DEVIATION

No deviation

3.4.5 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the APPENDIX D.

3.4.6 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the APPENDIX E.

3.4.7 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the APPENDIX F.

3.5 BAND EDGE MEASUREMENT

3.5.1 LIMIT

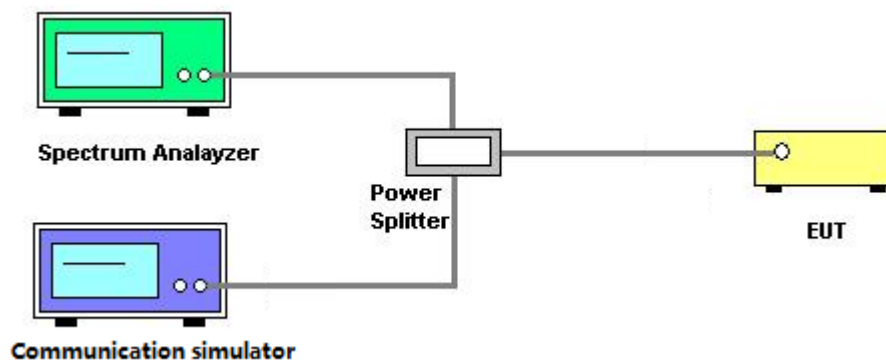
A Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.5.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

1. All measurements were done at low and high operational frequency range.
2. Record the max trace plot into the test report.

3.5.3 TEST SETUP LAYOUT



3.5.4 TEST DEVIATION

No deviation.

3.5.5 TEST RESULTS

Please refer to the APPENDIX G.

3.6 PEAK TO AVERAGE RATIO MEASUREMENT

3.6.1 LIMIT

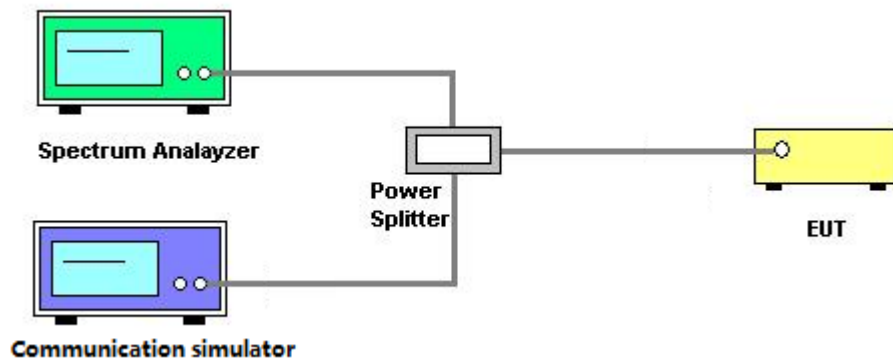
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.6.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.7.

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.6.3 TEST SETUP LAYOUT



3.6.4 TEST DEVIATION

No deviation.

3.6.5 TEST RESULTS

Please refer to the APPENDIX H.

3.7 FREQUENCY STABILITY MEASUREMENT

3.7.1 LIMIT

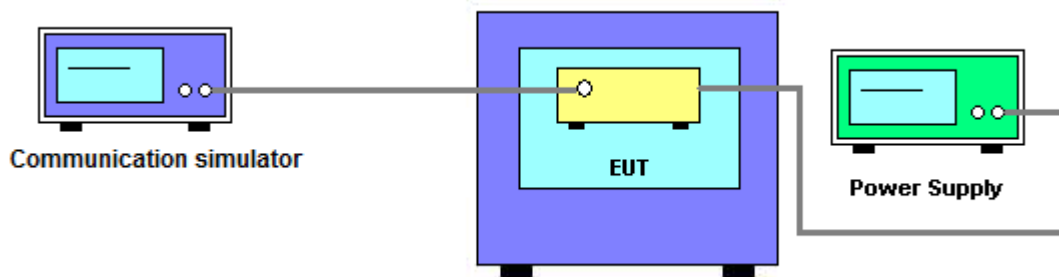
± 1.5 ppm is for base and fixed station. ± 2.5 ppm is for mobile station.

3.7.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 9.

1. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
2. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
3. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
4. The frequency error was recorded frequency error from the communication simulator.

3.7.3 TEST SETUP LAYOUT



3.7.4 TEST DEVIATION

No deviation.

3.7.5 TEST RESULTS

Please refer to the APPENDIX I.

4. LIST OF MEASUREMENT EQUIPMENTS

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXE EMI Receiver	Keysight	N9038A	MY56400091	Jan. 22, 2023
2*	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 23, 2024
3	Cable	N/A	RG 213/U(9kHz~1G Hz)	N/A	Jul. 09, 2022
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	wideband radio communication tester	R&S	CMW500	152372	Mar. 13, 2023
6	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Jan. 23, 2023
7	966 Chamber Room	ETS	9*6*6	N/A	Jul. 17, 2022

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 03, 2023
2	Amplifier	HP	8447D	2944A08742	Jan. 22, 2023
3	Cable	emci	LMR-400	N/A	Nov. 30, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	wideband radio communication tester	R&S	CMW500	152372	Mar. 13, 2023
9	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Jan. 23, 2023
10	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Horn Antenna	ARA	DRG-118A	16554	Apr. 18, 2023
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023
7	EXA Spectrum Analyzer	Keysight	N9010A	MY56480488	Jan. 22, 2023
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 16, 2022
9	Cable	Talent microwave	A81-SMAMSMAM-12.5M	N/A	Oct. 15, 2022
10	Cable	Talent microwave	A40-2.92M2.92M-2.5M	N/A	Nov. 30, 2022
11	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
12	wideband radio communication tester	R&S	CMW500	152372	Mar. 13, 2023
13	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Jan. 23, 2023
14	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	8960 Series 10 Wireless Com Test set	Agilent	E5515E	MY52112163	Jul. 24, 2022
2	MXA Signal Analyzer	Keysight	N9020A	MY49100060	Jul. 24, 2022
3	Power Splitter	Mini-Circuits	ZFRSC-183-S+	SF103501511S	Jul. 24, 2022
4	wideband radio communication tester	R&S	CMW500	104462	Jul. 24, 2022
5	Const Temp. & Humidity Chamber	Bell	BTH-50C	20170306001	Feb. 19, 2023
6	Mob Comms DC Supply	Agilent	66319D	MY52002262	Feb. 20, 2023
7	Signal Analyzer	R&S	FSQ-26	200822	Feb. 19, 2023

Remark: "N/A" denotes no model name, serial no. or calibration specified.

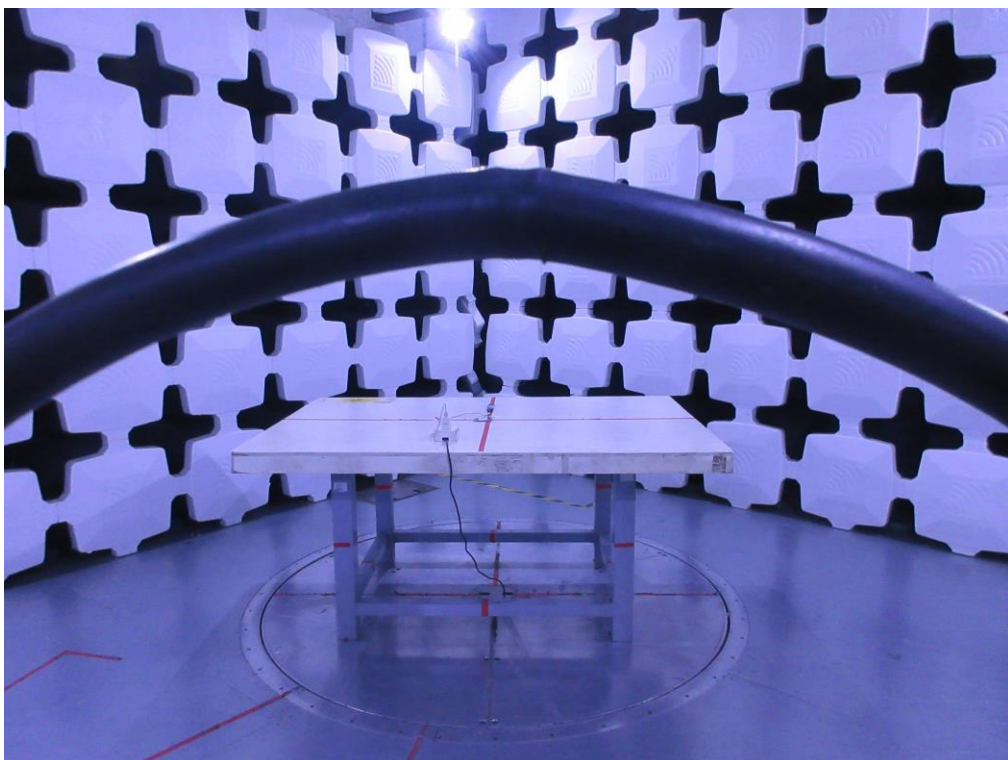
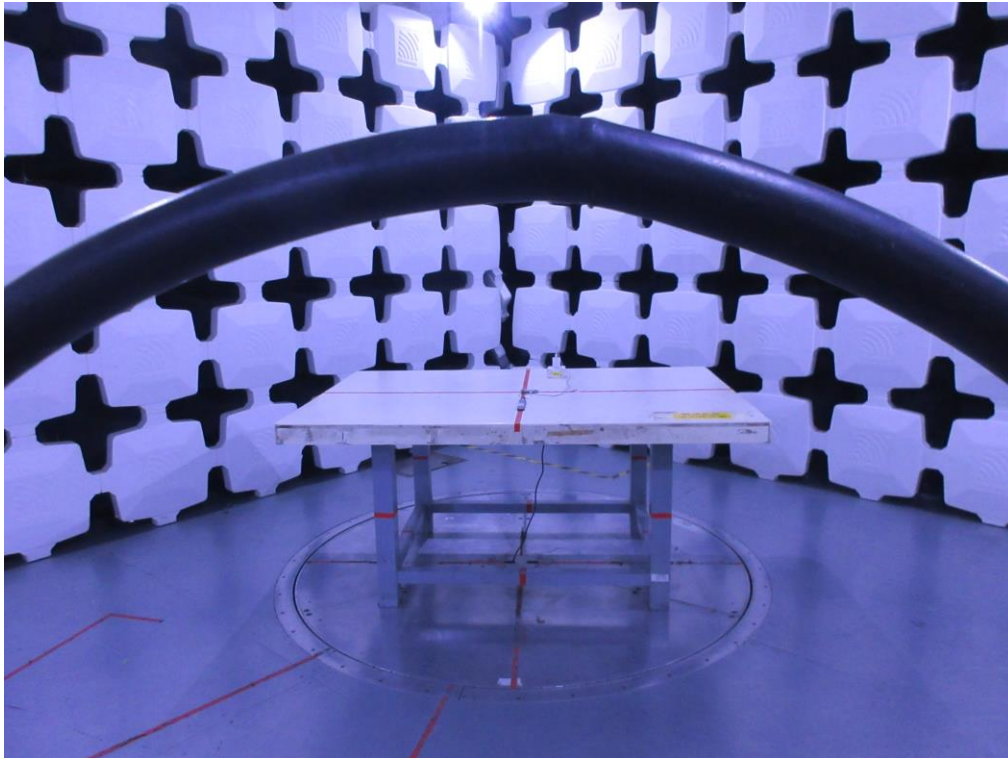
Except * item, all calibration period of equipment list is one year.

"**" calibration period of equipment list is three year.

5. EUT TEST PHOTO

Radiated Emissions Test Photos

9 kHz to 30 MHz



Radiated Emissions Test Photos

30 MHz to 1 GHz



Radiated Emissions Test Photos**Above 1 GHz**

APPENDIX A - OUTPUT POWER

Output Power (dBm)

GSM850		128CH	190CH	251CH
		824.2MHz	836.6MHz	848.8MHz
GSM (CS)		31.65	31.83	31.93
GPRS/EDGE (GMSK)	1 Tx Slot	31.74	31.86	31.98
	2 Tx Slot	29.66	29.84	29.97
	3 Tx Slot	27.83	28.02	28.20
	4 Tx Slot	25.87	26.10	26.09
EDGE (8PSK)	1 Tx Slot	25.15	25.43	25.10
	2 Tx Slot	24.08	24.08	23.97
	3 Tx Slot	21.80	22.03	21.78
	4 Tx Slot	20.33	20.43	19.81

Modulation	Band	WCDMA Band V		
	Tx Channel	4132CH	4182CH	4233CH
	Frequency	826.4MHz	836.4MHz	846.6MHz
QPSK	RMC 12.2K	23.60	23.59	23.07
	RMC 64K	23.61	23.60	23.10
	RMC 144K	23.60	23.59	23.09
	RMC 384K	23.61	23.60	23.10
	HSDPA Subtest-1	22.42	22.30	22.07
	HSDPA Subtest-2	22.44	22.40	22.14
	HSDPA Subtest-3	22.41	22.39	22.13
	HSDPA Subtest-4	22.09	21.92	21.65
	HSUPA Subtest-1	19.14	19.11	18.87
	HSUPA Subtest-2	19.82	19.79	19.55
	HSUPA Subtest-3	20.23	20.16	20.03
	HSUPA Subtest-4	18.90	18.83	18.65
	HSUPA Subtest-5	21.92	21.86	21.63

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20407CH	20525CH	20643CH
				824.7MHz	836.5MHz	848.3MHz
5 / 1.4MHz	QPSK	1	0	23.31	23.54	23.17
		1	2	23.26	23.46	23.23
		1	5	23.21	23.43	23.25
		3	0	23.40	23.31	23.13
		3	1	23.32	23.32	23.18
		3	2	23.27	23.26	23.08
		6	0	22.29	22.17	22.17
	16QAM	1	0	22.85	23.00	22.79
		1	2	22.83	23.08	22.73
		1	5	22.89	23.04	22.72
		3	0	22.70	22.30	22.21
		3	1	22.64	22.28	22.24
		3	2	22.59	22.31	22.19
		6	0	21.41	21.14	21.15

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20415CH	20525CH	20635CH
				825.5MHz	836.5MHz	847.5MHz
5 / 3MHz	QPSK	1	0	23.52	23.42	23.51
		1	7	23.54	23.40	23.36
		1	14	23.46	23.43	23.40
		8	0	22.22	22.13	22.19
		8	4	22.15	22.21	22.26
		8	7	22.17	22.14	22.22
		15	0	22.29	22.13	22.22
	16QAM	1	0	22.52	23.08	23.17
		1	7	22.60	23.08	23.16
		1	14	22.53	23.08	23.12
		8	0	21.25	21.45	21.11
		8	4	21.27	21.26	21.17
		8	7	21.29	21.30	21.16
		15	0	21.34	21.21	21.11

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20425CH	20525CH	20625CH
				826.5MHz	836.5MHz	846.5MHz
5 / 5MHz	QPSK	1	0	23.26	23.31	23.21
		1	13	23.29	23.32	23.20
		1	24	23.23	23.30	23.16
		12	0	22.21	22.25	22.20
		12	6	22.18	22.16	22.32
		12	11	22.17	22.30	22.25
		25	0	22.17	22.12	22.19
	16QAM	1	0	21.91	22.06	22.05
		1	13	21.90	22.04	22.01
		1	24	21.88	22.06	21.98
		12	0	21.32	21.29	21.22
		12	6	21.28	21.15	21.16
		12	11	21.27	21.17	21.16
		25	0	21.41	21.33	21.15

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20450CH	20525CH	20600CH
				829.0MHz	836.5MHz	844.0MHz
5 / 10MHz	QPSK	1	0	23.42	23.19	23.32
		1	25	23.42	23.25	23.39
		1	49	23.52	23.18	23.36
		25	0	22.18	22.20	22.40
		25	13	22.31	22.14	22.22
		25	25	22.15	22.29	22.20
		50	0	22.28	22.12	22.23
	16QAM	1	0	22.70	22.25	22.29
		1	25	22.73	22.34	22.27
		1	49	22.74	22.43	22.37
		25	0	21.29	21.34	21.46
		25	13	21.16	21.21	21.26
		25	25	21.12	21.26	21.30
		50	0	21.31	21.24	21.26

ERP (dBm)				
GSM850		128CH	190CH	251CH
		824.2MHz	836.6MHz	848.8MHz
GSM (CS)		30.82	31.00	31.10
GPRS/EDGE (GMSK)	1 Tx Slot	30.91	31.03	31.15
	2 Tx Slot	28.83	29.01	29.14
	3 Tx Slot	27.00	27.19	27.37
	4 Tx Slot	25.04	25.27	25.26
EDGE (8PSK)	1 Tx Slot	24.32	24.60	24.27
	2 Tx Slot	23.25	23.25	23.14
	3 Tx Slot	20.97	21.20	20.95
	4 Tx Slot	19.50	19.60	18.98

Modulation	Band	WCDMA Band V		
	Tx Channel	4132CH	4182CH	4233CH
	Frequency	826.4MHz	836.4MHz	846.6MHz
QPSK	RMC 12.2K	22.77	22.76	22.24
	RMC 64K	22.78	22.77	22.27
	RMC 144K	22.77	22.76	22.26
	RMC 384K	22.78	22.77	22.27
	HSDPA Subtest-1	21.59	21.47	21.24
	HSDPA Subtest-2	21.61	21.57	21.31
	HSDPA Subtest-3	21.58	21.56	21.30
	HSDPA Subtest-4	21.26	21.09	20.82
	HSUPA Subtest-1	18.31	18.28	18.04
	HSUPA Subtest-2	18.99	18.96	18.72
	HSUPA Subtest-3	19.40	19.33	19.20
	HSUPA Subtest-4	18.07	18.00	17.82
	HSUPA Subtest-5	21.09	21.03	20.80

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20407CH	20525CH	20643CH
				824.7MHz	836.5MHz	848.3MHz
5 / 1.4MHz	QPSK	1	0	22.48	22.71	22.34
		1	2	22.43	22.63	22.40
		1	5	22.38	22.60	22.42
		3	0	22.57	22.48	22.30
		3	1	22.49	22.49	22.35
		3	2	22.44	22.43	22.25
		6	0	21.46	21.34	21.34
	16QAM	1	0	22.02	22.17	21.96
		1	2	22.00	22.25	21.90
		1	5	22.06	22.21	21.89
		3	0	21.87	21.47	21.38
		3	1	21.81	21.45	21.41
		3	2	21.76	21.48	21.36
		6	0	20.58	20.31	20.32

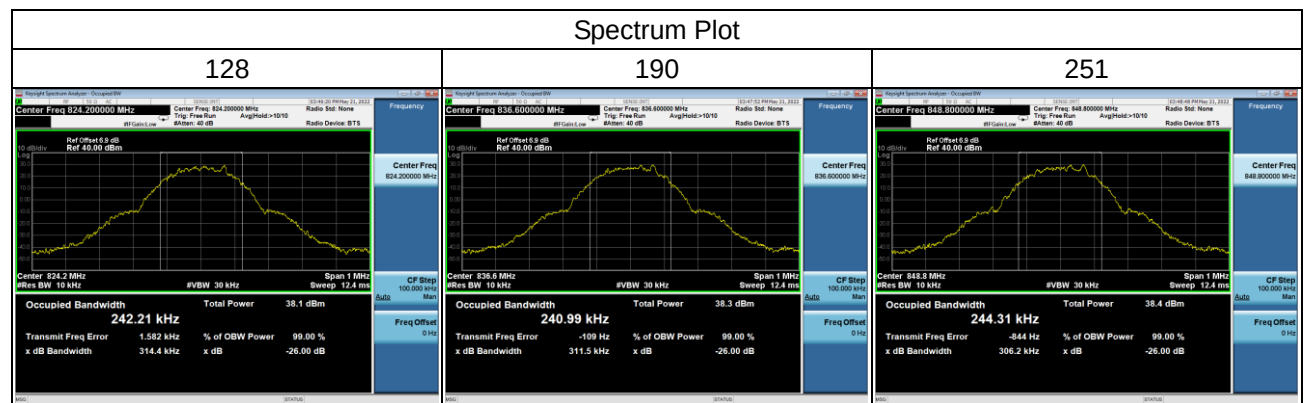
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20415CH	20525CH	20635CH
				825.5MHz	836.5MHz	847.5MHz
5 / 3MHz	QPSK	1	0	22.69	22.59	22.68
		1	7	22.71	22.57	22.53
		1	14	22.63	22.60	22.57
		8	0	21.39	21.30	21.36
		8	4	21.32	21.38	21.43
		8	7	21.34	21.31	21.39
		15	0	21.46	21.30	21.39
	16QAM	1	0	21.69	22.25	22.34
		1	7	21.77	22.25	22.33
		1	14	21.70	22.25	22.29
		8	0	20.42	20.62	20.28
		8	4	20.44	20.43	20.34
		8	7	20.46	20.47	20.33
		15	0	20.51	20.38	20.28

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20425CH	20525CH	20625CH
				826.5MHz	836.5MHz	846.5MHz
5 / 5MHz	QPSK	1	0	22.43	22.48	22.38
		1	13	22.46	22.49	22.37
		1	24	22.40	22.47	22.33
		12	0	21.38	21.42	21.37
		12	6	21.35	21.33	21.49
		12	11	21.34	21.47	21.42
		25	0	21.34	21.29	21.36
	16QAM	1	0	21.08	21.23	21.22
		1	13	21.07	21.21	21.18
		1	24	21.05	21.23	21.15
		12	0	20.49	20.46	20.39
		12	6	20.45	20.32	20.33
		12	11	20.44	20.34	20.33
		25	0	20.58	20.50	20.32

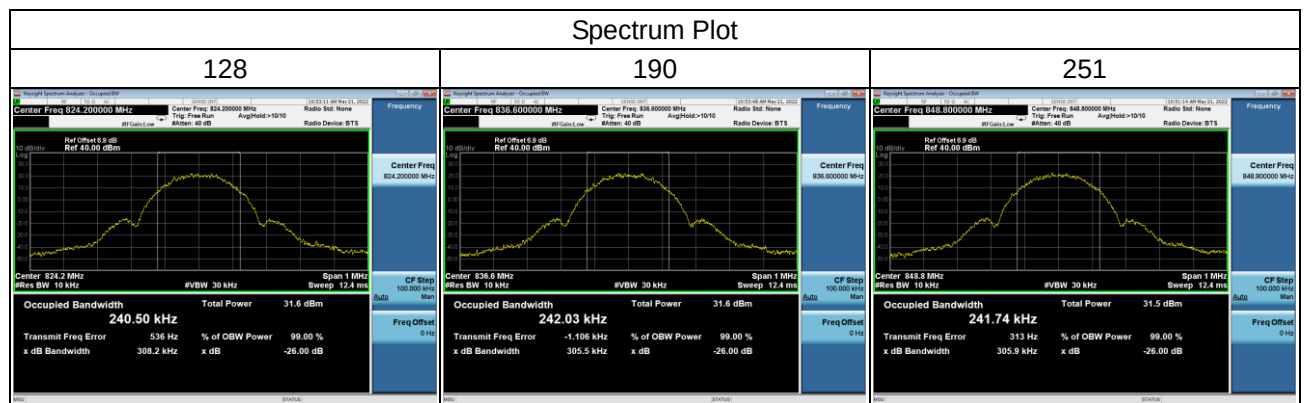
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20450CH	20525CH	20600CH
				829.0MHz	836.5MHz	844.0MHz
5 / 10MHz	QPSK	1	0	22.59	22.36	22.49
		1	25	22.59	22.42	22.56
		1	49	22.69	22.35	22.53
		25	0	21.35	21.37	21.57
		25	13	21.48	21.31	21.39
		25	25	21.32	21.46	21.37
		50	0	21.45	21.29	21.40
	16QAM	1	0	21.87	21.42	21.46
		1	25	21.90	21.51	21.44
		1	49	21.91	21.60	21.54
		25	0	20.46	20.51	20.63
		25	13	20.33	20.38	20.43
		25	25	20.29	20.43	20.47
		50	0	20.48	20.41	20.43

APPENDIX B - OCCUPIED BANDWIDTH

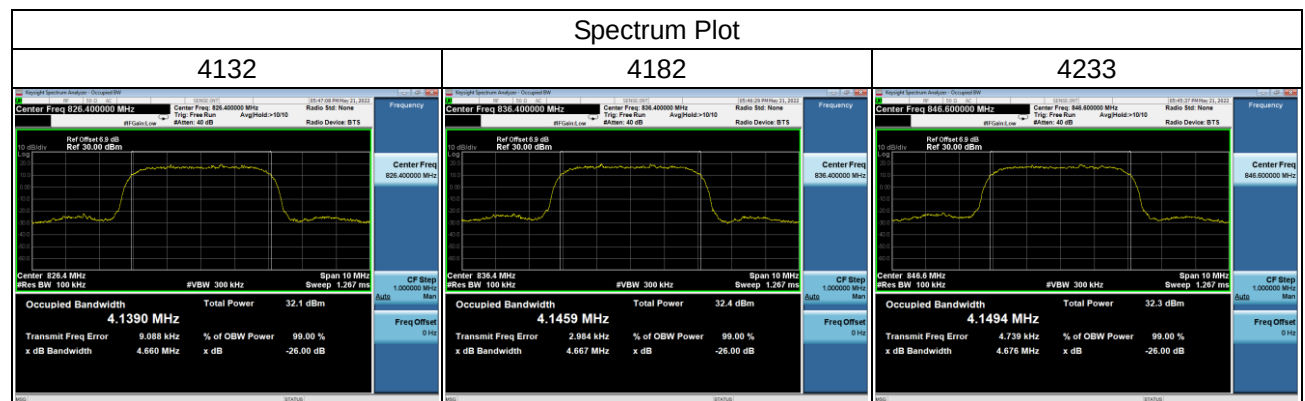
GSM850_GSM			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	QPSK
128	824.2	0.2422	0.3144
190	836.6	0.2410	0.3115
251	848.8	0.2443	0.3062



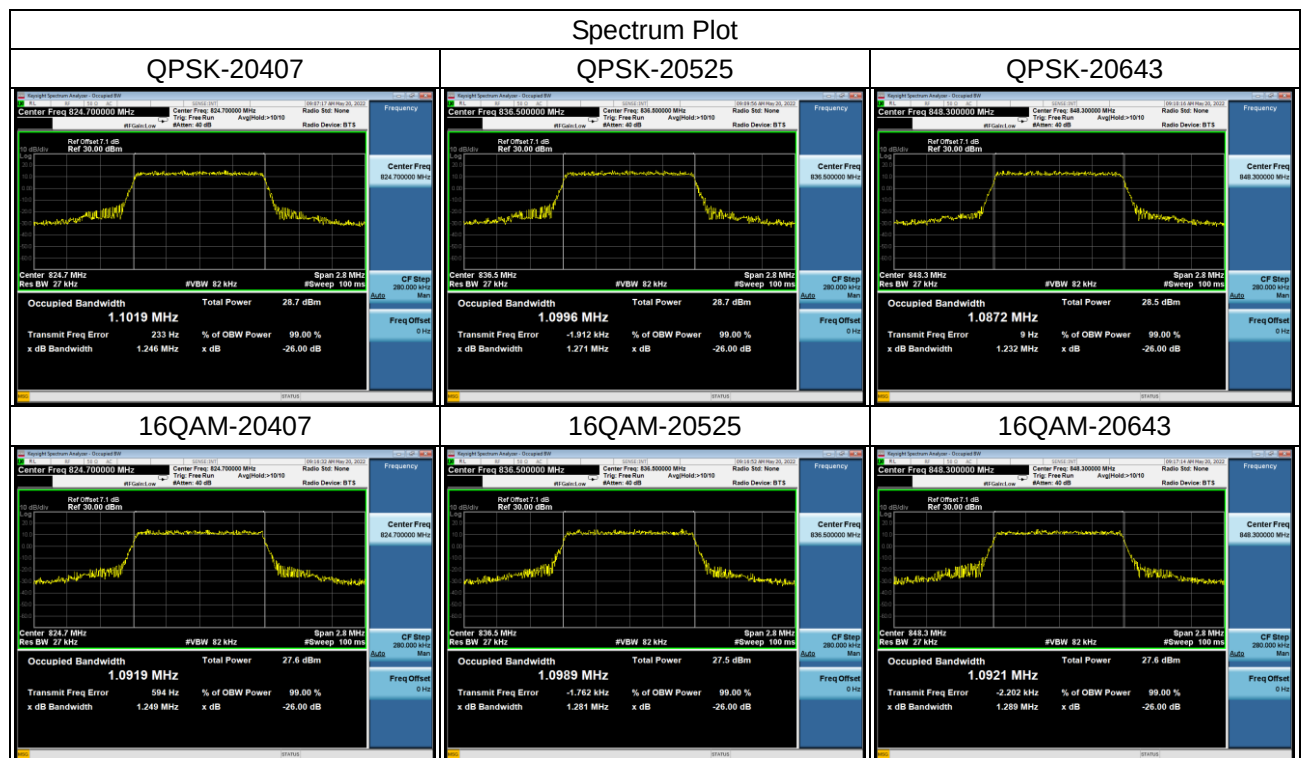
GSM850_EDGE			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	QPSK
128	824.2	0.2405	0.3082
190	836.6	0.2420	0.3055
251	848.8	0.2417	0.3059



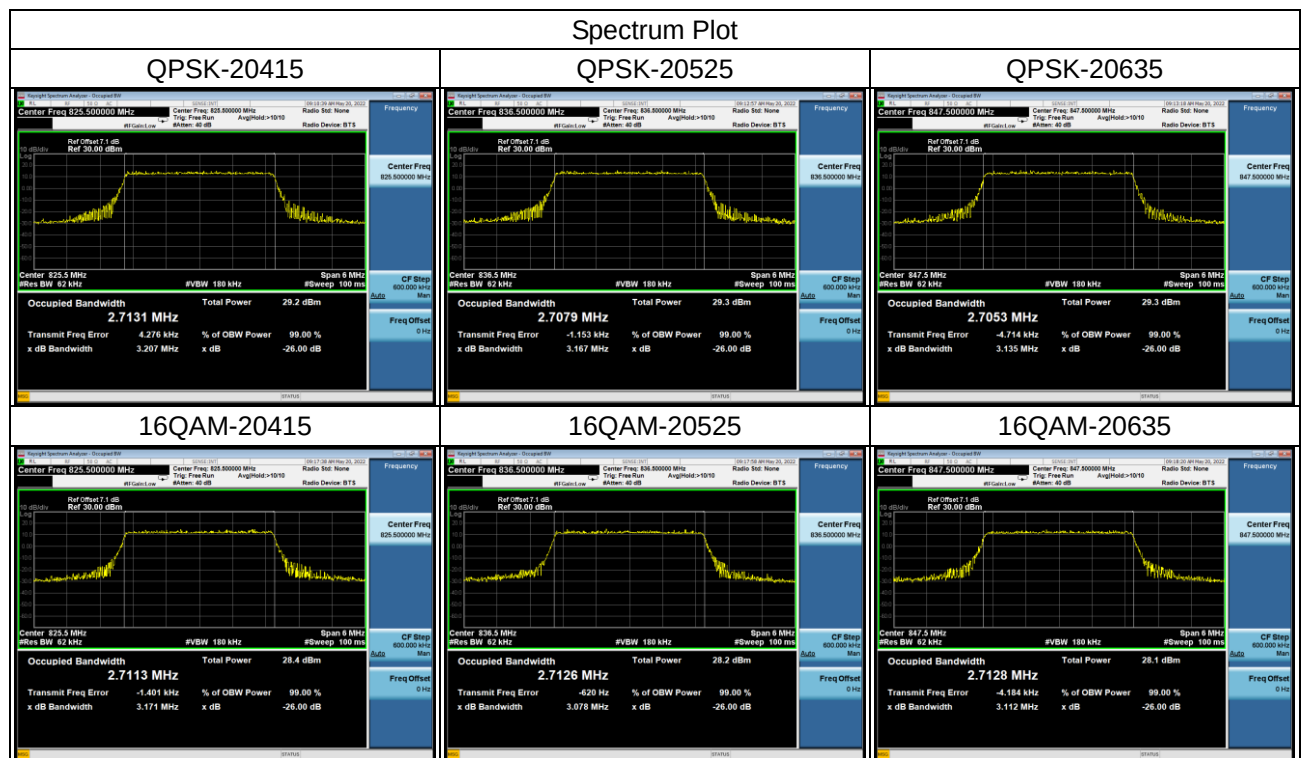
WCDMA Band V_WCDMA			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	QPSK
4132	826.4	4.1390	4.660
4182	836.4	4.1459	4.667
4233	846.6	4.1494	4.676



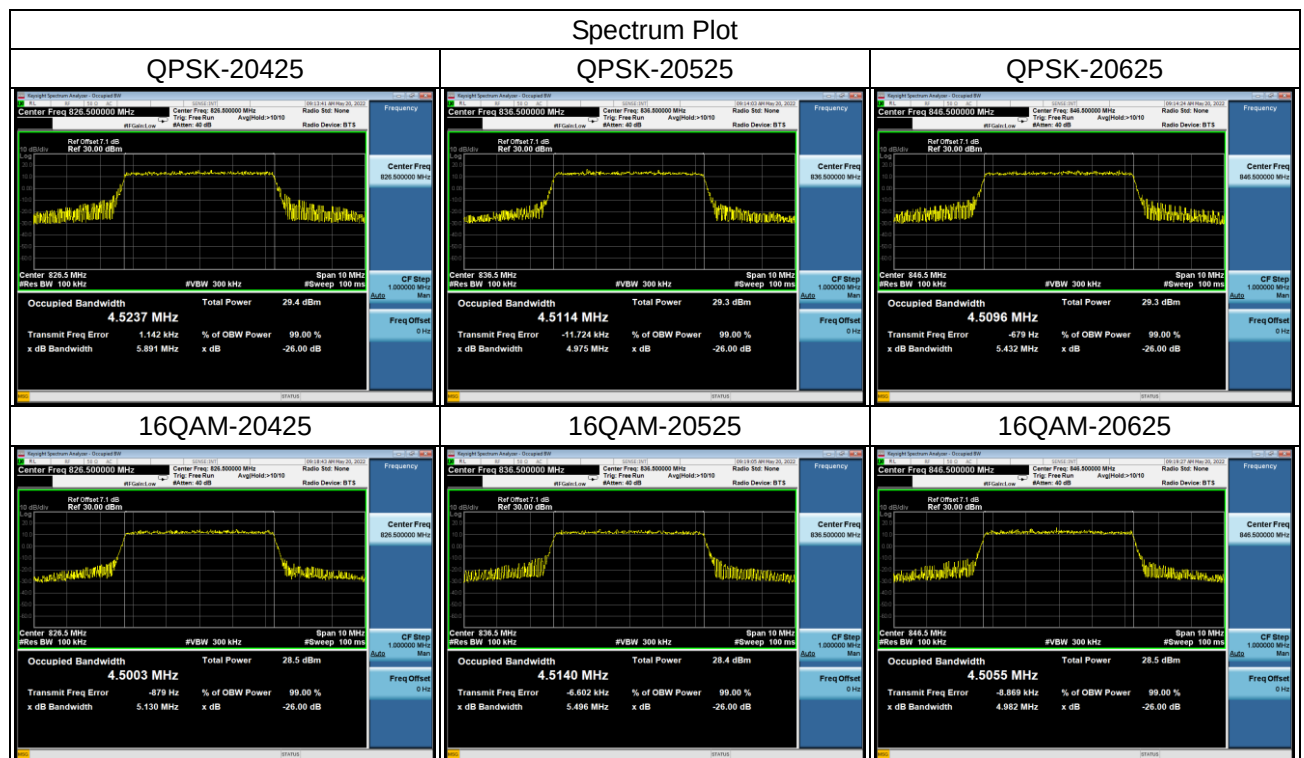
LTE Band 5_1.4MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20407	824.7	1.1019	1.0919	1.246	1.249
20525	836.5	1.0996	1.0989	1.271	1.281
20643	848.3	1.0872	1.0921	1.232	1.289



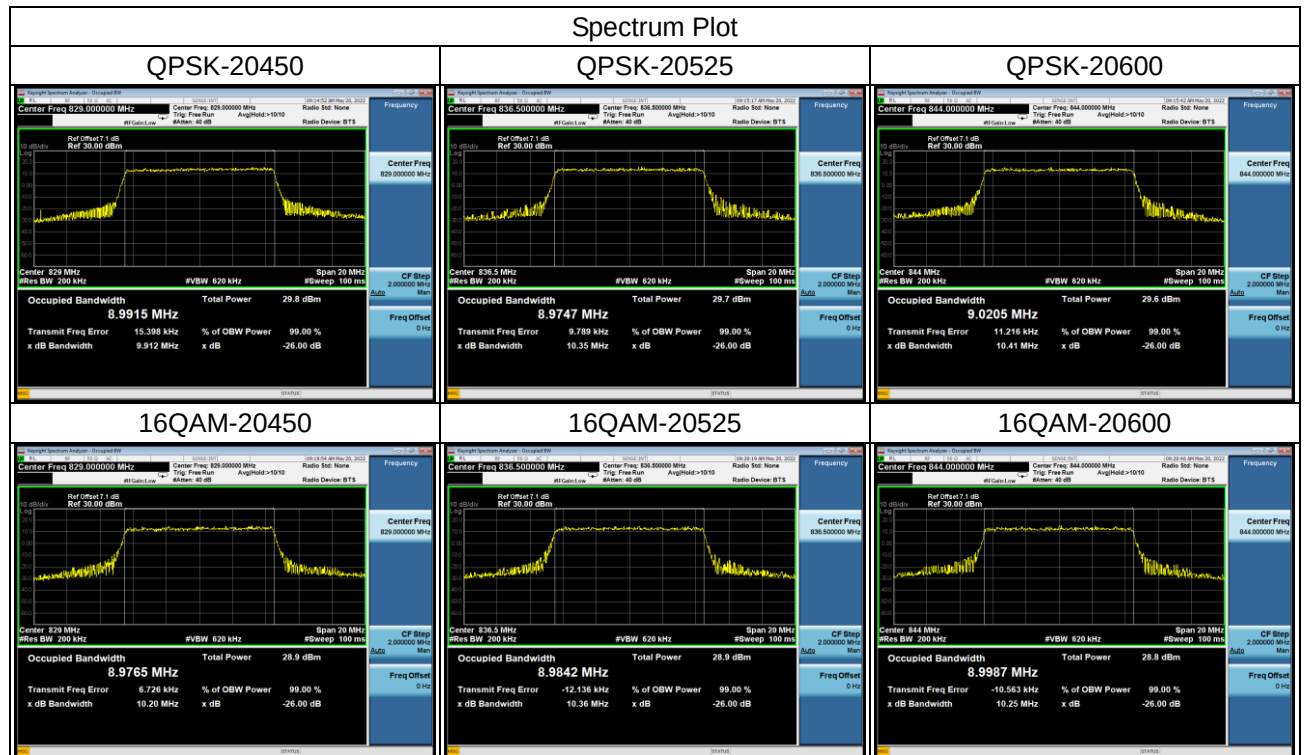
LTE Band 5_3MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20415	825.5	2.7131	2.7113	3.207	3.171
20525	836.5	2.7079	2.7126	3.167	3.078
20635	847.5	2.7053	2.7128	3.135	3.112



LTE Band 5_5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20425	826.5	4.5237	4.5003	5.891	5.130
20525	836.5	4.5114	4.5140	4.975	5.496
20625	846.5	4.5096	4.5055	5.432	4.982

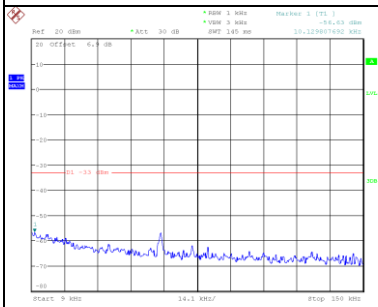


LTE Band 5_10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20450	829.0	8.9915	8.9765	9.912	10.20
20525	836.5	8.9747	8.9842	10.35	10.36
20600	844.0	9.0205	8.9987	10.41	10.25

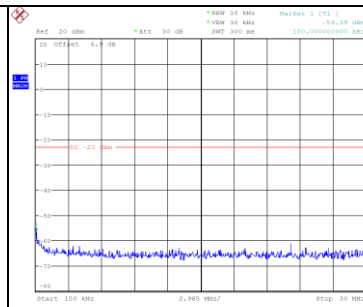


APPENDIX C - CONDUCTED SPURIOUS EMISSIONS

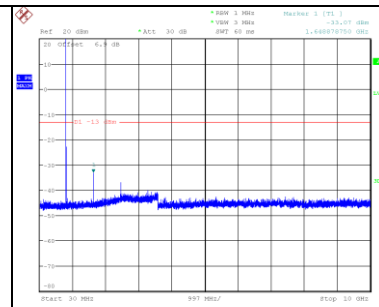
GSM850_GSM_CH190 Spectrum Plot



Date: 25-Nov-2022 09:14:09

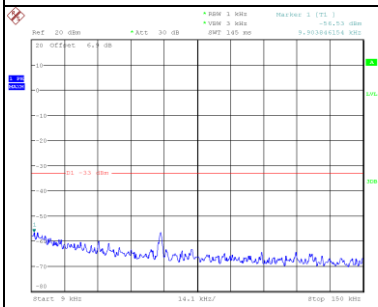


Date: 25-Nov-2022 09:14:47

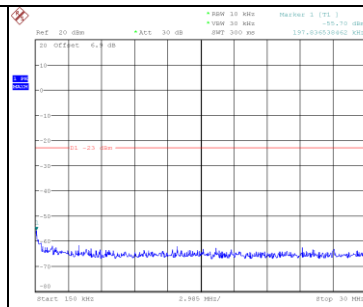


Date: 25-Nov-2022 09:14:03

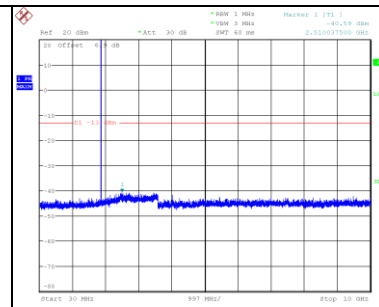
GSM850_EDGE_CH190 Spectrum Plot



Date: 25-Nov-2022 10:28:19

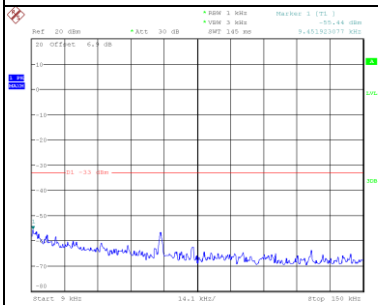


Date: 25-Nov-2022 10:28:08

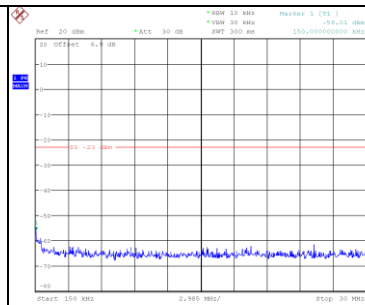


Date: 25-Nov-2022 10:28:48

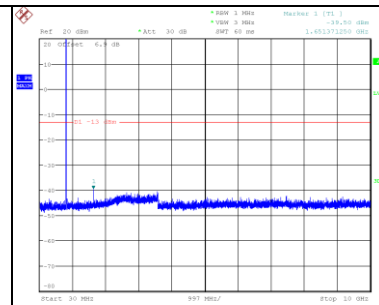
WCDMA Band V_WCDMA_CH4182 Spectrum Plot



Dates: 24.NOV.2022 17:35:22

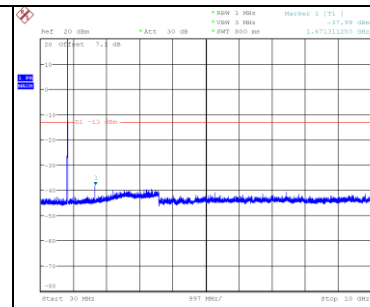
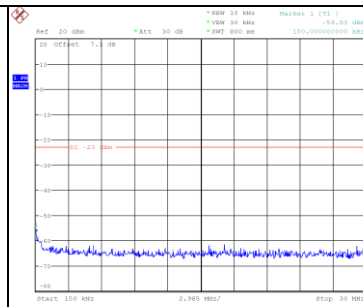
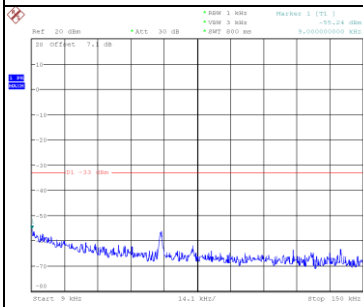


Dates: 24.NOV.2022 17:37:01

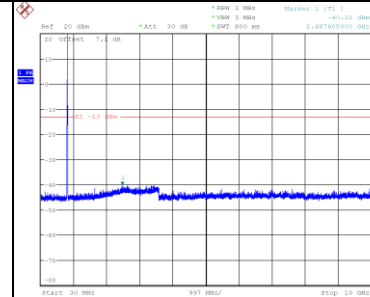
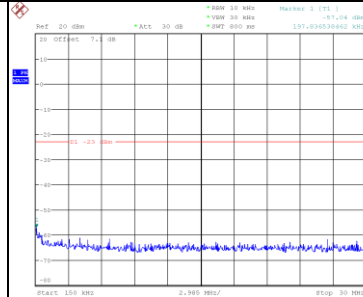
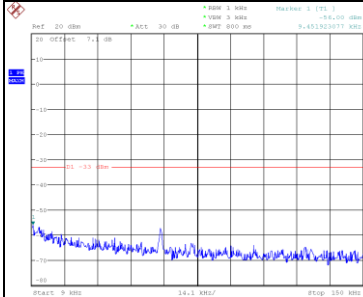


Dates: 24.NOV.2022 17:33:54

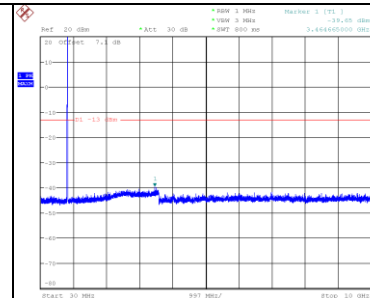
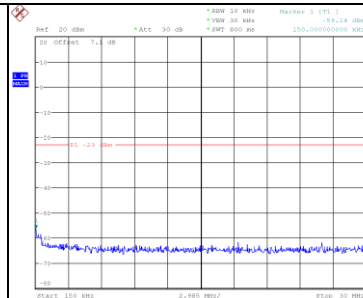
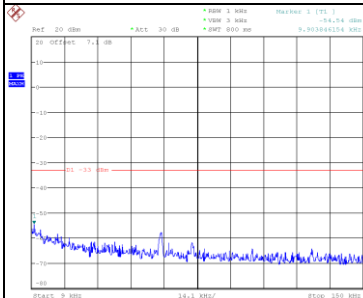
LTE Band 5_1.4MHz_CH20525 Spectrum Plot



LTE Band 5_5MHz_CH20525 Spectrum Plot



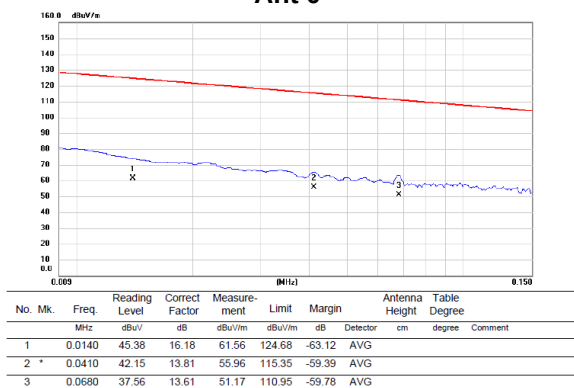
LTE Band 5_10M_CH20525 Spectrum Plot



APPENDIX D - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)

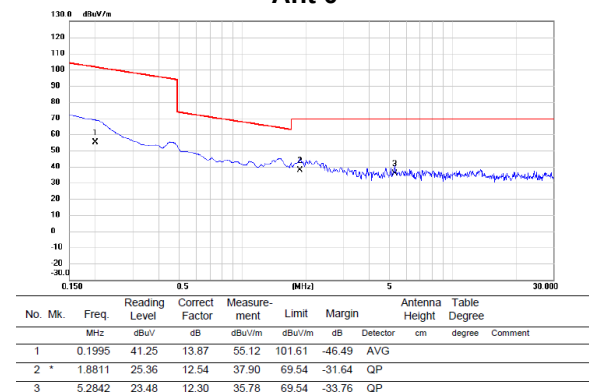
Test Mode : TX Mode

Ant 0°



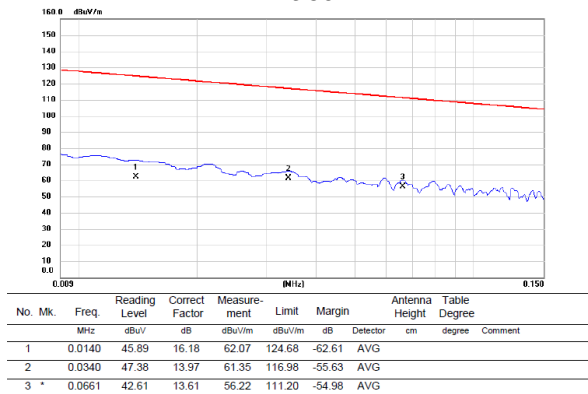
Test Mode : TX Mode

Ant 0°



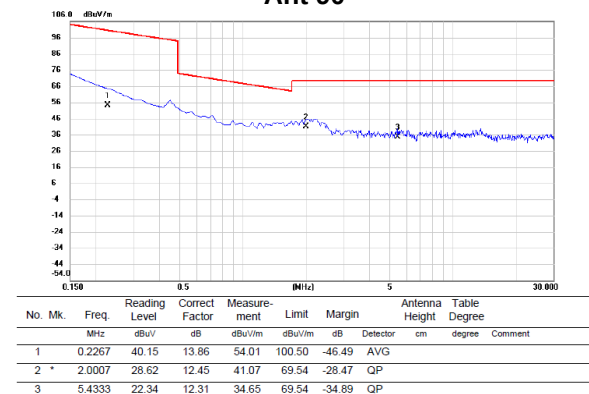
Test Mode : TX Mode

Ant 90°



Test Mode : TX Mode

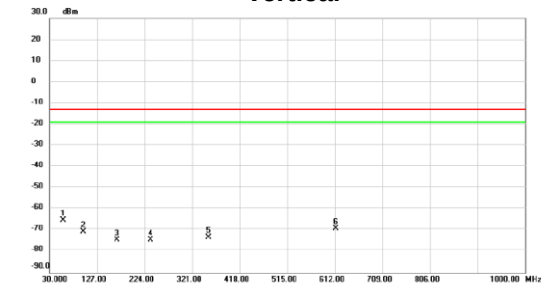
Ant 90°



APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)

Test Mode : GSM850_TX CH190_GSM

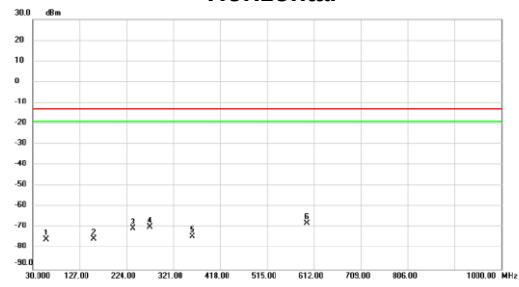
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1	*	57.6450	-53.46	-11.86	-65.32	-13.00	-52.32	peak	
2		98.8700	-54.15	-16.48	-70.63	-13.00	-57.63	peak	
3		167.7400	-62.52	-12.14	-74.66	-13.00	-61.66	peak	
4		236.6100	-60.79	-13.89	-74.68	-13.00	-61.68	peak	
5		353.9800	-63.08	-10.25	-73.33	-13.00	-60.33	peak	
6		614.4250	-64.47	-4.60	-69.07	-13.00	-56.07	peak	

Test Mode : GSM850_TX CH190_GSM

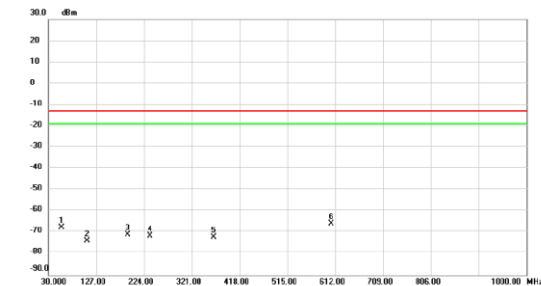
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1		58.1300	-63.87	-11.86	-75.73	-13.00	-62.73	peak	
2		155.6150	-63.40	-12.12	-75.52	-13.00	-62.52	peak	
3		237.5800	-56.46	-13.78	-70.24	-13.00	-57.24	peak	
4		272.9850	-57.45	-12.21	-69.66	-13.00	-56.66	peak	
5		360.7700	-64.15	-10.06	-74.21	-13.00	-61.21	peak	
6	*	596.4800	-63.08	-4.99	-68.07	-13.00	-55.07	peak	

Test Mode : WCDMA Band V_TX CH4182

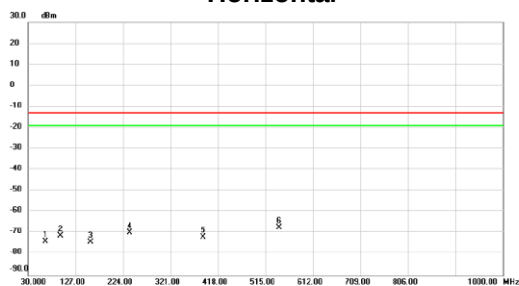
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1		56.1900	-55.69	-11.86	-67.55	-13.00	-54.55	peak	
2		108.0850	-59.04	-15.04	-74.08	-13.00	-61.08	peak	
3		191.0200	-57.05	-14.02	-71.07	-13.00	-58.07	peak	
4		236.1250	-57.70	-13.94	-71.64	-13.00	-58.64	peak	
5		366.1050	-62.32	-9.93	-72.25	-13.00	-59.25	peak	
6	*	603.7550	-60.88	-4.82	-65.70	-13.00	-52.70	peak	

Test Mode : WCDMA Band V_TX CH4182

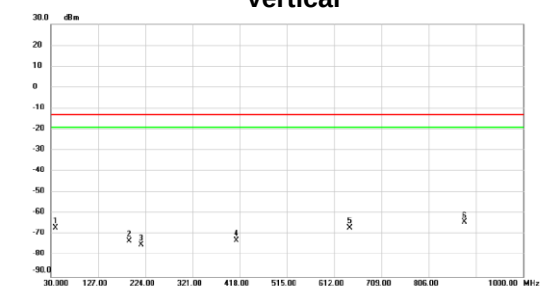
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1		64.9200	-61.65	-12.21	-73.86	-13.00	-60.86	peak	
2		96.9300	-54.45	-16.74	-71.19	-13.00	-58.19	peak	
3		157.0700	-62.07	-12.08	-74.15	-13.00	-61.15	peak	
4		237.0950	-56.05	-13.84	-69.89	-13.00	-56.89	peak	
5		386.9600	-62.39	-9.37	-71.76	-13.00	-58.76	peak	
6	*	542.1600	-61.16	-6.15	-67.31	-13.00	-54.31	peak	

Test Mode : LTE Band 5_TX CH20525_1.4MHz

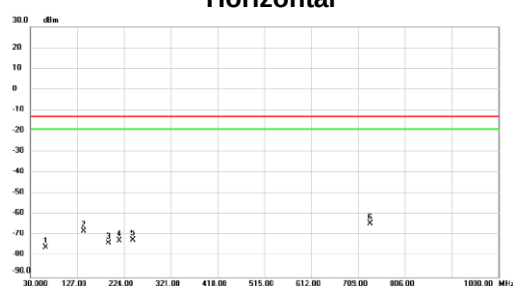
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		39.2150	-54.35	-12.41	-66.76	-13.00	-53.76	peak	
2		191.0200	-58.95	-14.02	-72.97	-13.00	-59.97	peak	
3		215.7550	-59.58	-15.33	-74.91	-13.00	-61.91	peak	
4		410.7250	-64.03	-8.80	-72.83	-13.00	-59.83	peak	
5		643.5250	-62.75	-3.97	-66.72	-13.00	-53.72	peak	
6	*	879.2350	-63.24	-0.94	-64.18	-13.00	-51.18	peak	

Test Mode : LTE Band 5_TX CH20525_1.4MHz

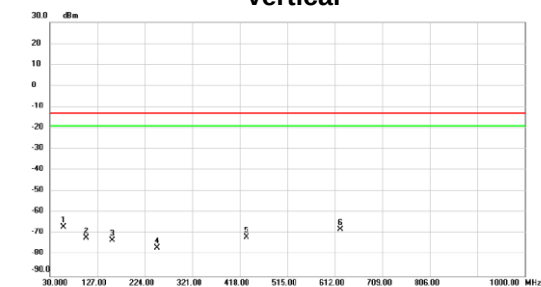
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		61.5250	-63.76	-11.99	-75.75	-13.00	-62.75	peak	
2		140.5800	-55.09	-12.90	-67.99	-13.00	-54.99	peak	
3		191.9900	-59.66	-14.12	-73.78	-13.00	-60.78	peak	
4		214.3000	-57.18	-15.37	-72.55	-13.00	-59.55	peak	
5		242.9150	-58.66	-13.38	-72.04	-13.00	-59.04	peak	
6	*	733.7350	-61.93	-2.56	-64.49	-13.00	-51.49	peak	

Test Mode : LTE Band 5_TX CH20525_5MHz

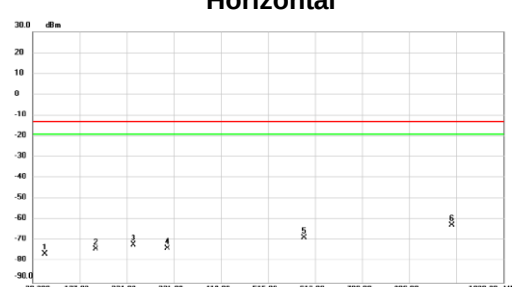
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	57.1600	-54.89	-11.86	-66.75	-13.00	-53.75	peak	
2		104.2050	-56.20	-15.66	-71.86	-13.00	-58.86	peak	
3		157.0700	-61.07	-12.08	-73.15	-13.00	-60.15	peak	
4		249.7050	-63.46	-13.06	-76.52	-13.00	-63.52	peak	
5		431.0950	-63.46	-8.22	-71.68	-13.00	-58.68	peak	
6		623.1550	-63.43	-4.41	-67.84	-13.00	-54.84	peak	

Test Mode : LTE Band 5_TX CH20525_5MHz

Horizontal

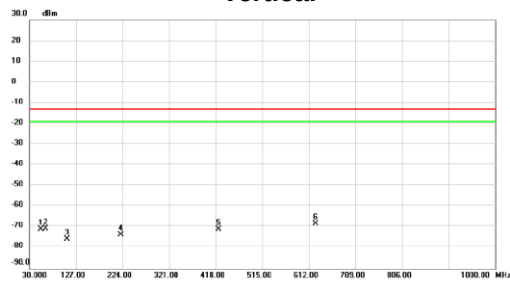


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		55.7050	-64.41	-11.86	-76.27	-13.00	-63.27	peak	
2		160.4650	-61.83	-12.00	-73.83	-13.00	-60.83	peak	
3		237.5800	-58.17	-13.78	-71.95	-13.00	-58.95	peak	
4		307.4200	-62.52	-11.13	-73.65	-13.00	-60.65	peak	
5		589.2050	-63.30	-5.15	-68.45	-13.00	-55.45	peak	
6	*	893.7850	-61.75	-0.66	-62.41	-13.00	-49.41	peak	

Test Mode : LTE Band 5_TX CH20525_10MHz

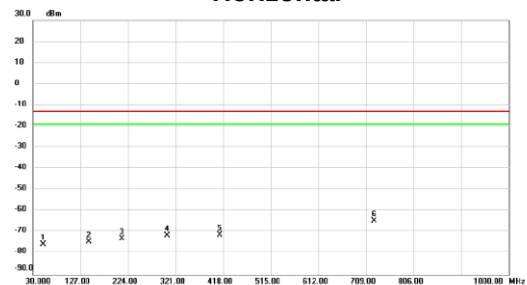
Test Mode : LTE Band 5_TX CH20525_10MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		53.2800	-59.26	-11.84	-71.10	-13.00	-58.10	peak	
2		64.4350	-58.40	-12.18	-70.58	-13.00	-57.58	peak	
3		107.6000	-60.65	-15.11	-75.76	-13.00	-62.76	peak	
4		220.1200	-58.41	-15.25	-73.66	-13.00	-60.66	peak	
5		423.8200	-62.66	-8.44	-71.10	-13.00	-58.10	peak	
6	*	625.5800	-63.79	-4.35	-68.14	-13.00	-55.14	peak	

Horizontal

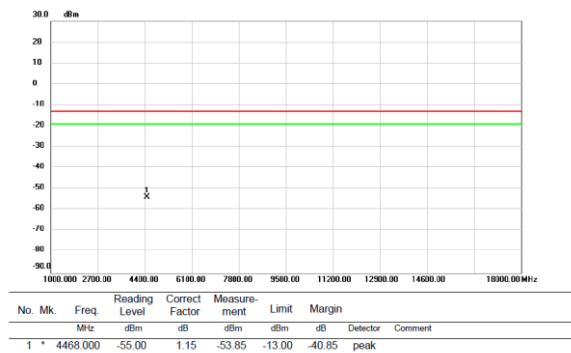


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		50.8550	-63.84	-11.83	-75.67	-13.00	-62.67	peak	
2		144.9450	-61.82	-12.62	-74.44	-13.00	-61.44	peak	
3		211.3900	-57.61	-15.42	-73.03	-13.00	-60.03	peak	
4		303.5400	-60.36	-11.19	-71.55	-13.00	-58.55	peak	
5		410.2400	-62.36	-8.81	-71.17	-13.00	-58.17	peak	
6	*	725.4900	-61.99	-2.79	-64.78	-13.00	-51.78	peak	

APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)

Test Mode : GSM850_TX CH190_GSM

Vertical



Test Mode : GSM850_TX CH190_GSM

Horizontal



Test Mode : WCDMA Band V_TX CH4182

Vertical



Test Mode : WCDMA Band V_TX CH4182

Horizontal

