



FCC RF Test Report

APPLICANT : HMD Global Oy
EQUIPMENT : Mobile Phone
BRAND NAME : Nokia
MODEL NAME : TA-1178
FCC ID : 2AJOTTA-1178
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on May 27, 2019 and completely tested on Jun. 14, 2019. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

Approved by: James Huang / Manager



Sportun International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION.....	5
1.1 Applicant.....	5
1.2 Product Feature of Equipment Under Test	5
1.3 Product Specification of Equipment Under Test	6
1.4 Modification of EUT	6
1.5 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator	7
1.6 Testing Location	7
1.7 Applicable Standards	8
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	9
2.1 Test Mode.....	9
2.2 Connection Diagram of Test System	10
2.3 Support Unit used in test configuration	10
2.4 Measurement Results Explanation Example	10
2.5 Frequency List of Low/Middle/High Channels.....	11
3 CONDUCTED TEST RESULT.....	12
3.1 Measuring Instruments.....	12
3.2 Test Setup	12
3.3 Test Result of Conducted Test.....	12
3.4 Conducted Output Power and ERP/EIRP	13
3.5 Peak-to-Average Ratio	14
3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement.....	15
3.7 Conducted Band Edge	16
3.8 Conducted Spurious Emission	16
3.9 Frequency Stability.....	17
4 RADIATED TEST ITEMS	18
4.1 Measuring Instruments.....	18
4.2 Test Setup	18
4.3 Test Result of Radiated Test.....	18
4.4 Field Strength of Spurious Radiation Measurement	19
5 LIST OF MEASURING EQUIPMENT	20
6 UNCERTAINTY OF EVALUATION.....	21
APPENDIX A. TEST RESULTS OF CONDUCTED TEST	
APPENDIX B. TEST RESULTS OF RADIATED TEST	
APPENDIX C. TEST SETUP PHOTOGRAPHS	



REVISION HISTORY



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22H	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 27.24 dB at 2510.000 MHz



1 General Description

1.1 Applicant

HMD Global Oy

Bertel Jungin aukio 9,02600 ESPOO. FINLAND

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Nokia
Model Name	TA-1178
FCC ID	2AJOTTA-1178
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/ DC-HSDPA/HSPA+(16QAM uplink is not supported) LTE/FM Receiver/GNSS/NFC WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
IMEI Code	Conducted:N/A Radiation:352924100008551
HW Version	LLDM690B
SW Version	LLDB701
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM/GPRS/EDGE: 850: 824.2 MHz ~ 848.8 MHz 1900: 1850.2 MHz ~ 1909.8MHz WCDMA: Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz Band IV: 1712.4 MHz ~ 1752.6 MHz
Rx Frequency	GSM/GPRS/EDGE: 850: 869.2 MHz ~ 893.8 MHz 1900: 1930.2 MHz ~ 1989.8 MHz WCDMA: Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz Band IV: 2112.4 MHz ~ 2152.6 MHz
Maximum Output Power to Antenna	GSM/GPRS/EDGE: 850: 32.74 dBm 1900: 29.37 dBm WCDMA: Band V: 23.51 dBm Band II: 23.35 dBm Band IV: 23.27 dBm
Antenna Type	Loop Antenna
Antenna Gain	Cellular Band: -2.00 dBi PCS Band: -0.80 dBi AWS Band: -0.80 dBi
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK (Uplink) HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (16QAM uplink is not supported) DC-HSDPA : 64QAM

1.4 Modification of EUT

No modifications are made to the EUT during all test items.



1.5 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22H	GSM850 GSM	GMSK	0.7228	0.0574 ppm	243KGXW
Part 22H	GSM850 EDGE class 8	8PSK	0.2270	0.0538 ppm	242KG7W
Part 22H	WCDMA Band V RMC 12.2Kbps	BPSK	0.0863	0.0442 ppm	4M17F9W
Part 24E	GSM1900 GSM	GMSK	0.7194	0.0218 ppm	243KGXW
Part 24E	GSM1900 EDGE class 8	8PSK	0.3698	0.0255 ppm	249KG7W
Part 24E	WCDMA Band II RMC 12.2Kbps	BPSK	0.1799	0.0239 ppm	4M16F9W
Part 27L	WCDMA Band IV RMC 12.2Kbps	BPSK	0.1766	0.0167 ppm	4M17F9W

1.6 Testing Location

Sportun International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sportun International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sportun Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH06-KS TH01-KS	CN1257	314309



1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic for WCDMA Band IV.
3. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

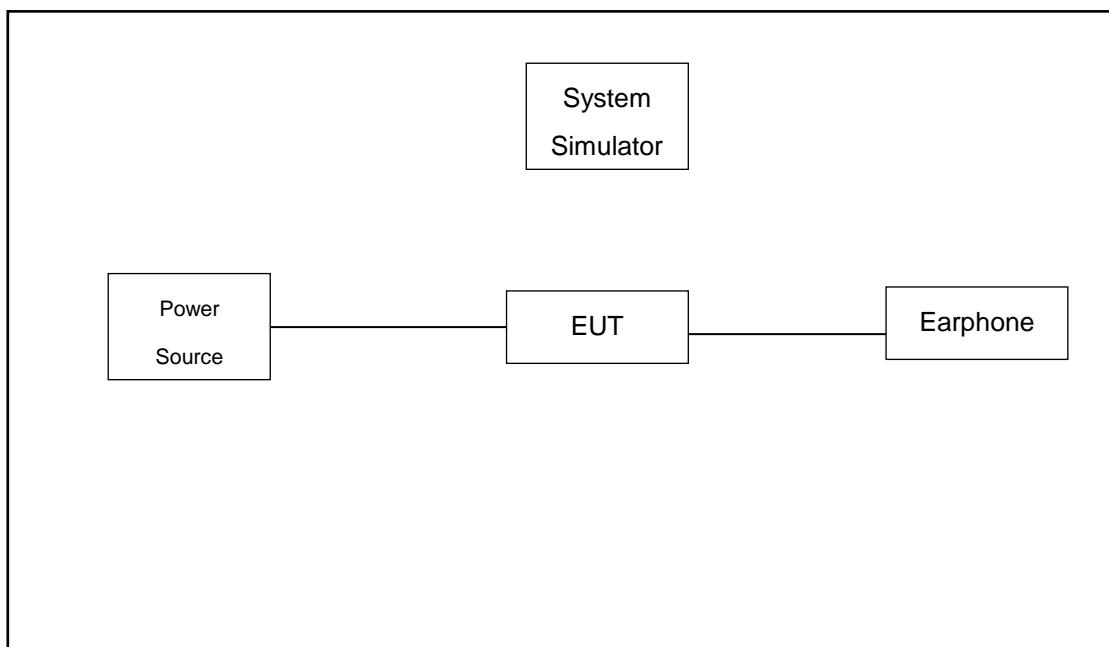
All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	<ul style="list-style-type: none">■ GSM Link■ EDGE class 8 Link	<ul style="list-style-type: none">■ GSM Link■ EDGE class 8 Link
GSM 1900	<ul style="list-style-type: none">■ GSM Link■ EDGE class 8 Link	<ul style="list-style-type: none">■ GSM Link■ EDGE class 8 Link
WCDMA Band V	<ul style="list-style-type: none">■ RMC 12.2Kbps Link	<ul style="list-style-type: none">■ RMC 12.2Kbps Link
WCDMA Band II	<ul style="list-style-type: none">■ RMC 12.2Kbps Link	<ul style="list-style-type: none">■ RMC 12.2Kbps Link
WCDMA Band IV	<ul style="list-style-type: none">■ RMC 12.2Kbps Link	<ul style="list-style-type: none">■ RMC 12.2Kbps Link



2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}$.

The following shows an offset computation example with RF cable loss 4.3 dB and a 10dB attenuator.

Example :

$$\text{Offset(dB)} = \text{RF cable loss(dB)} + \text{attenuator factor(dB)}$$

$$= 4.3 + 10 = 14.3 \text{ (dB)}$$



2.5 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
GSM850	Channel	128	189	251
	Frequency	824.2	836.4	848.8
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
GSM1900	Channel	512	661	810
	Frequency	1850.2	1880.0	1909.8
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6

3 Conducted Test Result

3.1 Measuring Instruments

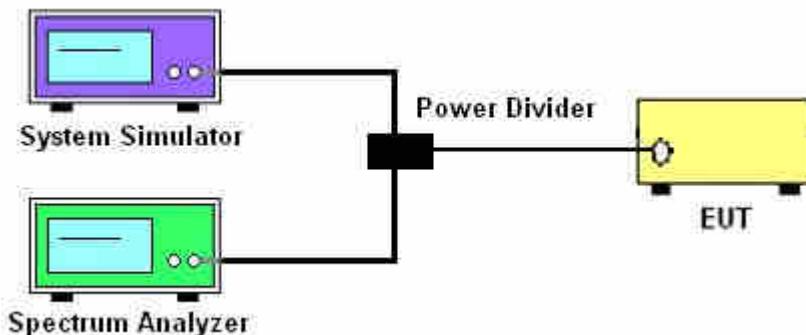
See list of measuring instruments of this test report.

3.2 Test Setup

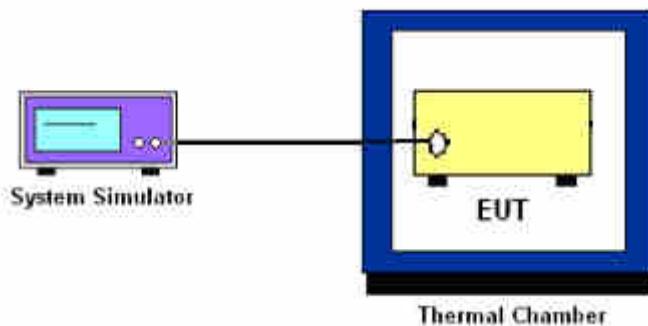
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

$$\text{EIRP} = P_T + G_T - L_C, \text{ERP} = \text{EIRP} - 2.15, \text{where}$$

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.



3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.



3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.6.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The band edges of low and high channels for the highest RF powers were measured.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20 \pm 5^\circ\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

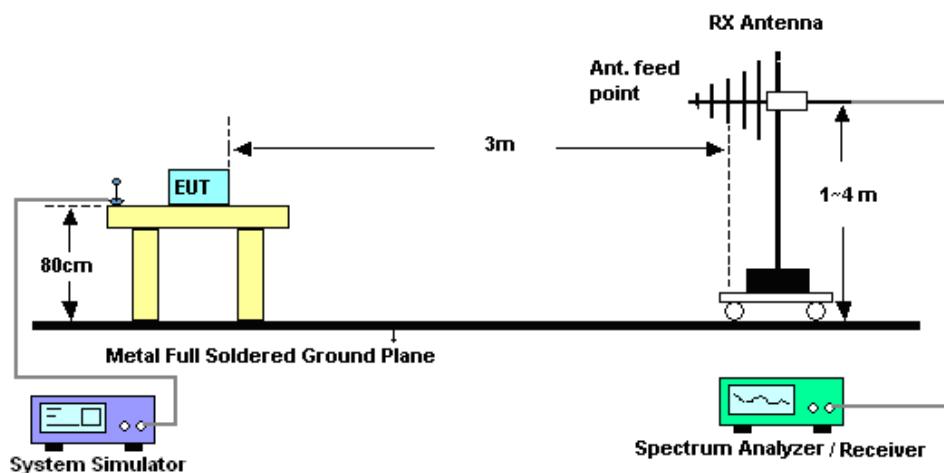
4 Radiated Test Items

4.1 Measuring Instruments

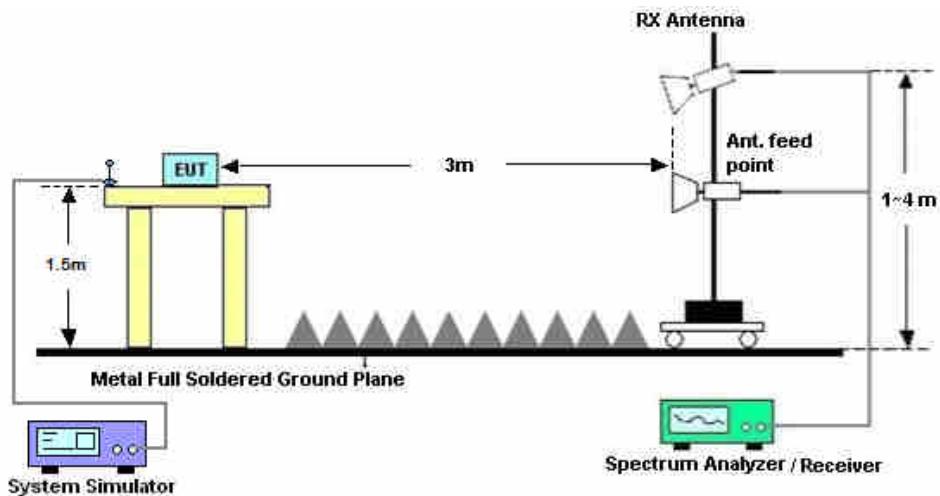
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.



4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
12. ERP (dBm) = EIRP - 2.15
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 07, 2018	Jun. 13, 2019~Jun. 14, 2019	Aug. 06, 2019	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Nov. 19, 2018	Jun. 13, 2019~Jun. 14, 2019	Nov. 18, 2019	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471084	10Hz-44GHz	Jun. 25, 2018	Jun. 06, 2019	Jun. 24, 2019	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 28, 2018	Jun. 06, 2019	Dec. 27, 2019	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 20, 2018	Jun. 06, 2019	Oct. 19, 2019	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2019	Jun. 06, 2019	Jan. 04, 2020	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2018	Jun. 06, 2019	Aug. 05, 2019	Radiation (03CH06-KS)
Amplifier	MITEQ	TTA1840-35-HG	2014749	18~40GHz	Jan. 14, 2019	Jun. 06, 2019	Jan. 13, 2020	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Apr. 17, 2019	Jun. 06, 2019	Apr. 16, 2020	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 15, 2019	Jun. 06, 2019	Apr. 14. 2020	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 06, 2019	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 06, 2019	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 06, 2019	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required



6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{c(y)}$)	2.5 dB
--	---------------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{c(y)}$)	2.1 dB
--	---------------



Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	32.43	32.74	32.74	29.34	29.37	29.07
GPRS class 8	32.42	32.73	32.73	29.33	29.36	29.06
GPRS class 10	32.07	32.38	32.52	28.68	28.82	28.45
GPRS class 11	30.85	31.29	31.25	28.18	28.09	27.77
GPRS class 12	28.93	29.29	29.34	26.23	26.15	25.81
EGPRS class 8	27.71	27.61	27.59	26.45	26.42	26.48
EGPRS class 10	27.51	27.37	27.38	26.21	26.19	26.22
EGPRS class 11	26.25	26.10	26.03	25.01	24.81	24.83
EGPRS class 12	23.93	23.85	23.82	22.56	22.51	22.82

Conducted Power (*Unit: dBm)									
Band	WCDMA Band V			WCDMA Band II			WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
AMR 12.2K	23.45	23.48	23.49	23.33	23.31	23.33	23.23	23.25	23.22
RMC 12.2K	23.47	23.49	23.51	23.35	23.33	23.34	23.26	23.27	23.25
HSDPA Subtest-1	22.41	22.40	22.34	22.25	22.27	22.31	22.25	22.22	22.22
HSDPA Subtest-2	22.34	22.38	22.40	22.29	22.30	22.34	22.23	22.23	22.23
HSDPA Subtest-3	21.89	21.87	21.90	21.81	21.82	21.91	21.74	21.76	21.76
HSDPA Subtest-4	21.91	21.91	21.88	21.85	21.81	21.86	21.72	21.72	21.74
DC-HSDPA Subtest-1	22.38	22.36	22.29	22.22	22.23	22.26	22.22	22.18	22.17
DC-HSDPA Subtest-2	22.31	22.34	22.35	22.26	22.26	22.29	22.20	22.19	22.18
DC-HSDPA Subtest-3	21.86	21.83	21.85	21.78	21.78	21.86	21.71	21.72	21.71
DC-HSDPA Subtest-4	21.88	21.87	21.83	21.82	21.77	21.81	21.69	21.68	21.69
HSUPA Subtest-1	22.38	22.39	22.29	22.30	22.29	22.30	22.20	22.21	22.20
HSUPA Subtest-2	20.43	20.38	20.30	20.26	20.31	20.32	20.24	20.20	20.24
HSUPA Subtest-3	21.36	21.41	21.32	21.35	21.24	21.34	21.20	21.19	21.20
HSUPA Subtest-4	20.40	20.40	20.30	20.34	20.25	20.36	20.20	20.22	20.21
HSUPA Subtest-5	22.40	22.40	22.30	22.30	22.20	22.30	22.21	22.20	22.20

**ERP/EIRP**

GSM850 ($G_T - L_C = -2.00 \text{ dB}$)			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency (MHz)	824.2	836.4	848.8
	32.43	32.74	32.74
Conducted Power (dBm)	1.7498	1.8793	1.8793
ERP(dBm)	28.28	28.59	28.59
ERP(Watts)	0.6730	0.7228	0.7228

EDGE850 ($G_T - L_C = -2.00 \text{ dB}$)			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency (MHz)	824.2	836.4	848.8
	27.71	27.61	27.59
Conducted Power (dBm)	0.5902	0.5768	0.5741
ERP(dBm)	23.56	23.46	23.44
ERP(Watts)	0.2270	0.2218	0.2208



GSM1900 ($G_T - L_C = -0.80 \text{ dB}$)			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency (MHz)	1850.2	1880	1909.8
	Conducted Power (dBm)	29.34	29.37
Conducted Power (Watts)	0.8590	0.8650	0.8072
EIRP(dBm)	28.54	28.57	28.27
EIRP(Watts)	0.7145	0.7194	0.6714

EDGE1900 ($G_T - L_C = -0.80 \text{ dB}$)			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency (MHz)	1850.2	1880	1909.8
	Conducted Power (dBm)	26.45	26.42
Conducted Power (Watts)	0.4416	0.4385	0.4446
EIRP(dBm)	25.65	25.62	25.68
EIRP(Watts)	0.3673	0.3648	0.3698



WCDMA Band V ($G_T - L_C = -2.00 \text{ dB}$)			
Channel	4132	4182	4233
	(Low)	(Mid)	(High)
Frequency (MHz)	826.4	836.4	846.6
Conducted Power (dBm)	23.47	23.49	23.51
Conducted Power (Watts)	0.2223	0.2234	0.2244
ERP(dBm)	19.32	19.34	19.36
ERP(Watts)	0.0855	0.0859	0.0863

WCDMA Band II ($G_T - L_C = -0.80 \text{ dB}$)			
Channel	9262	9400	9538
	(Low)	(Mid)	(High)
Frequency (MHz)	1852.4	1880	1907.6
Conducted Power (dBm)	23.35	23.33	23.34
Conducted Power (Watts)	0.2163	0.2153	0.2158
EIRP(dBm)	22.55	22.53	22.54
EIRP(Watts)	0.1799	0.1791	0.1795

WCDMA Band IV ($G_T - L_C = -0.80 \text{ dB}$)			
Channel	1312	1413	1513
	(Low)	(Mid)	(High)
Frequency (MHz)	1712.4	1732.6	1752.6
Conducted Power (dBm)	23.26	23.27	23.25
Conducted Power (Watts)	0.2118	0.2123	0.2113
EIRP(dBm)	22.46	22.47	22.45
EIRP(Watts)	0.1762	0.1766	0.1758

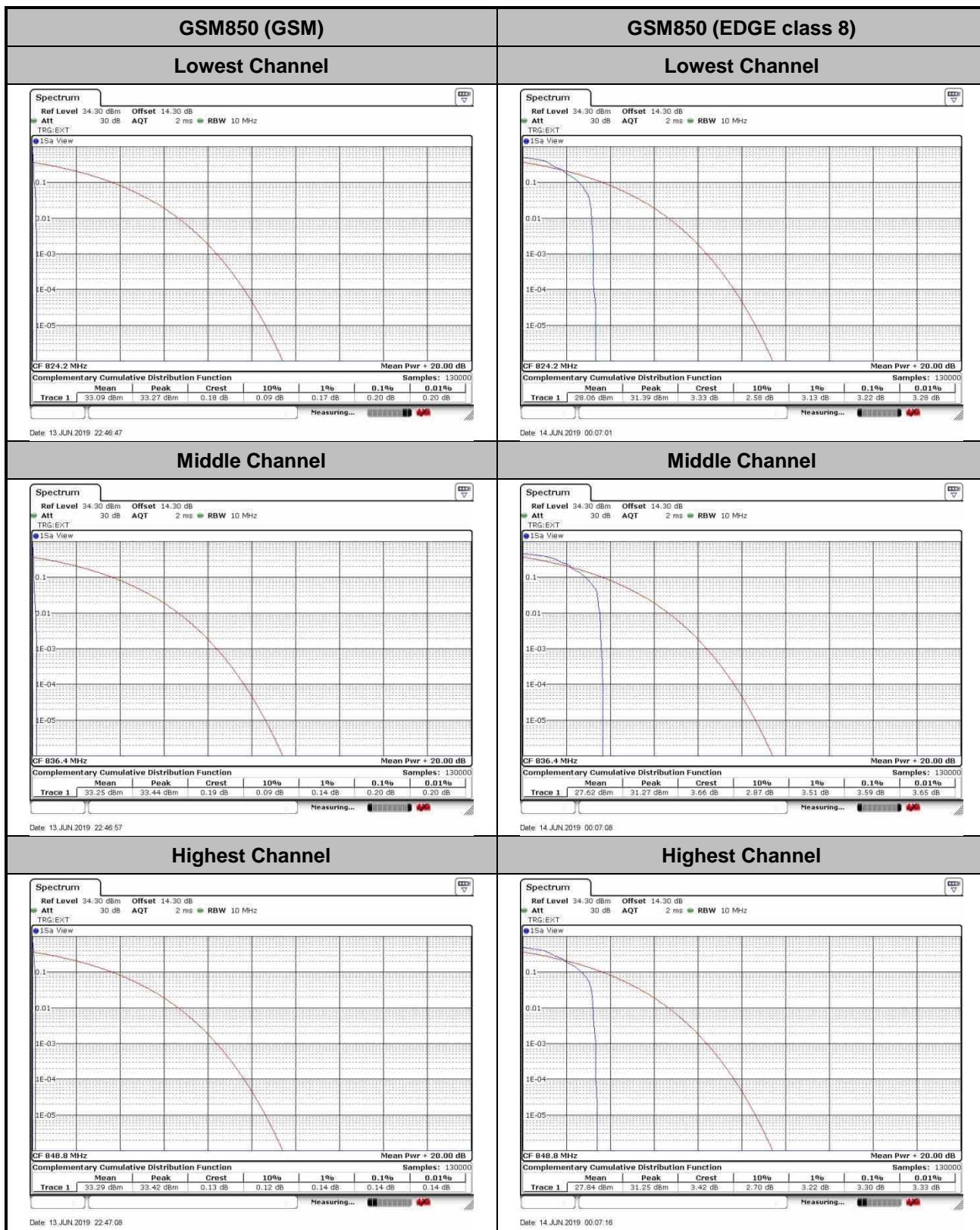


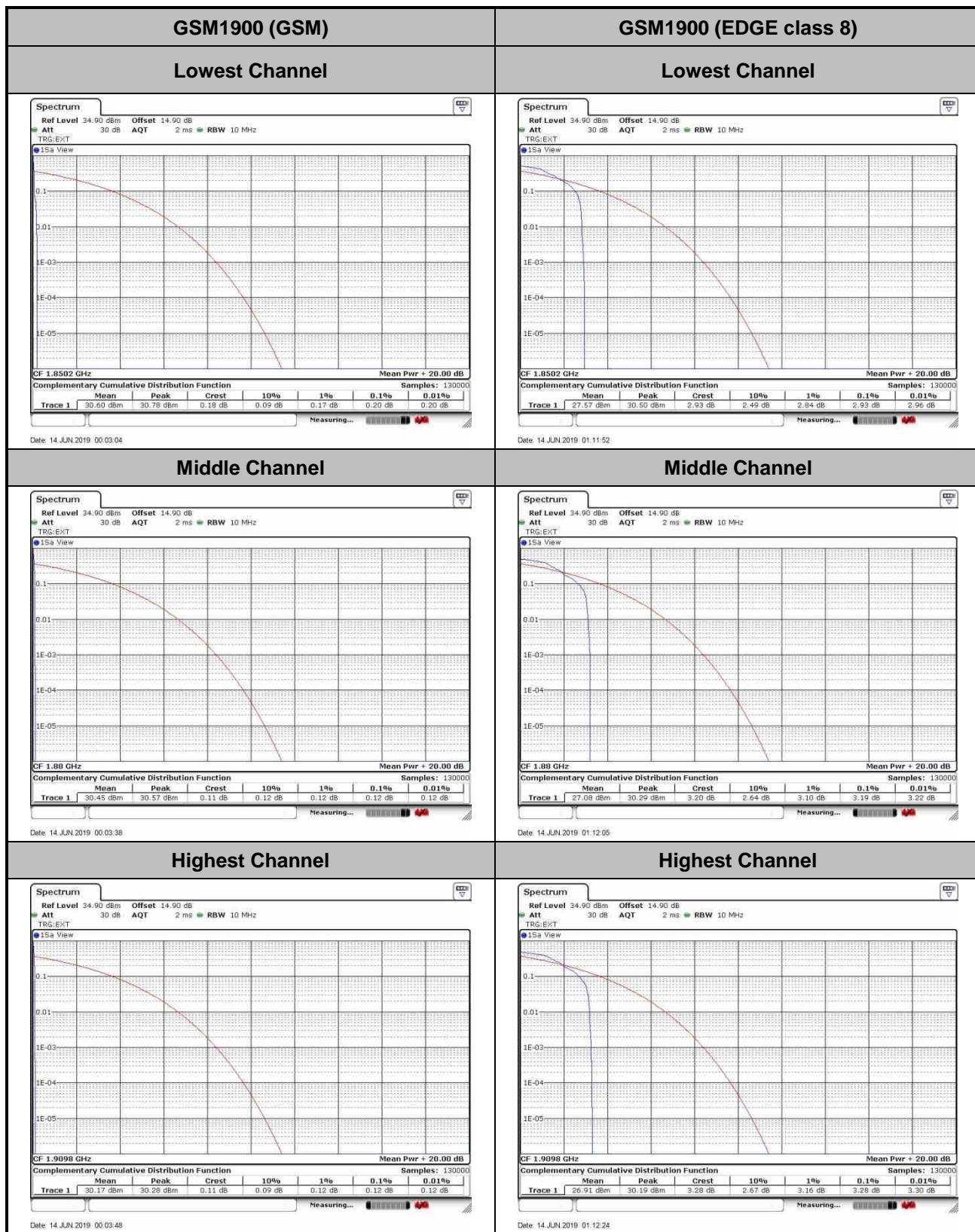
Peak-to-Average Ratio

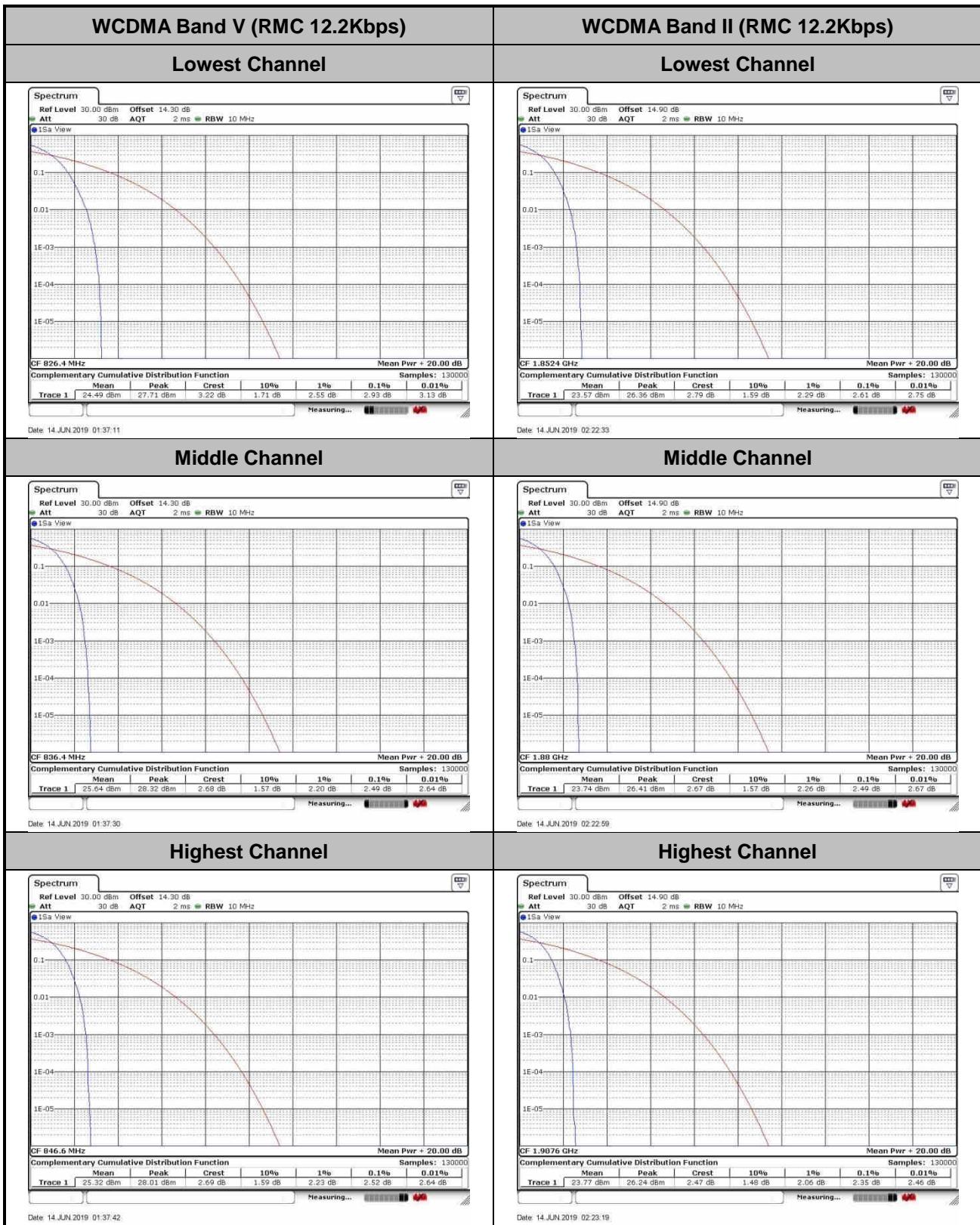
Mode	GSM850(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.20	3.22	PASS
Middle CH	0.20	3.59	
Highest CH	0.14	3.30	

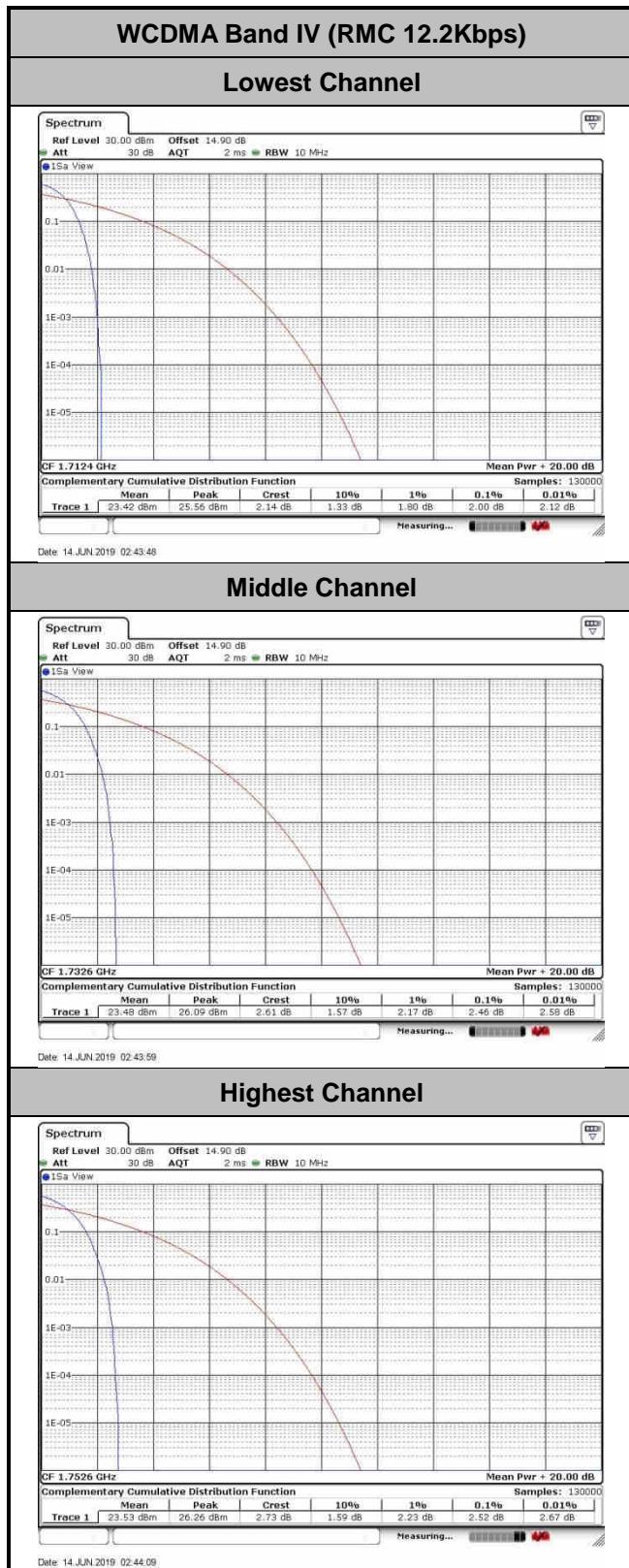
Mode	GSM1900(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.20	2.93	PASS
Middle CH	0.12	3.19	
Highest CH	0.12	3.28	

Mode	WCDMA Band V(dB)	WCDMA Band II(dB)	WCDMA Band IV(dB)	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.93	2.61	2.00	PASS
Middle CH	2.49	2.49	2.46	
Highest CH	2.52	2.35	2.52	







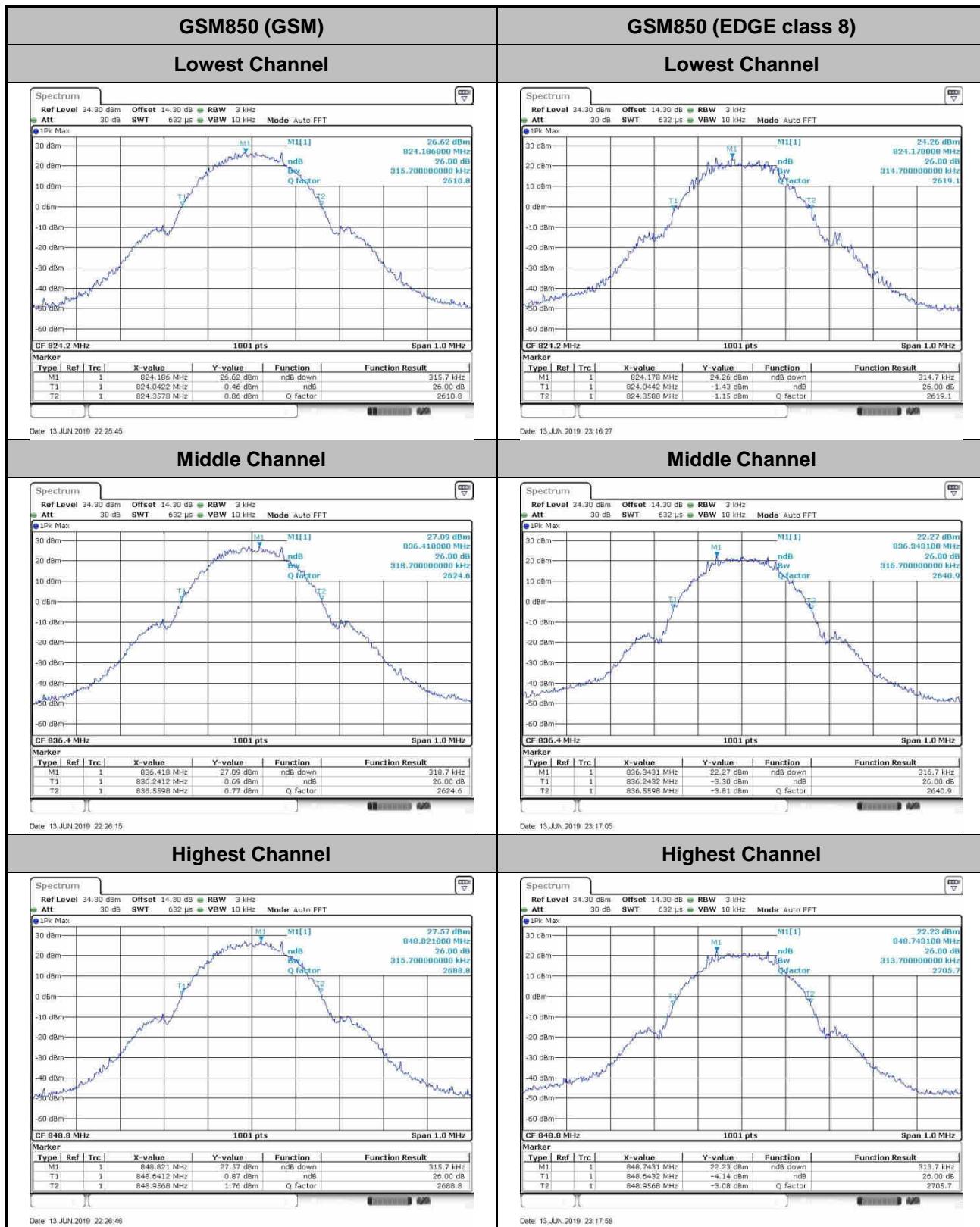


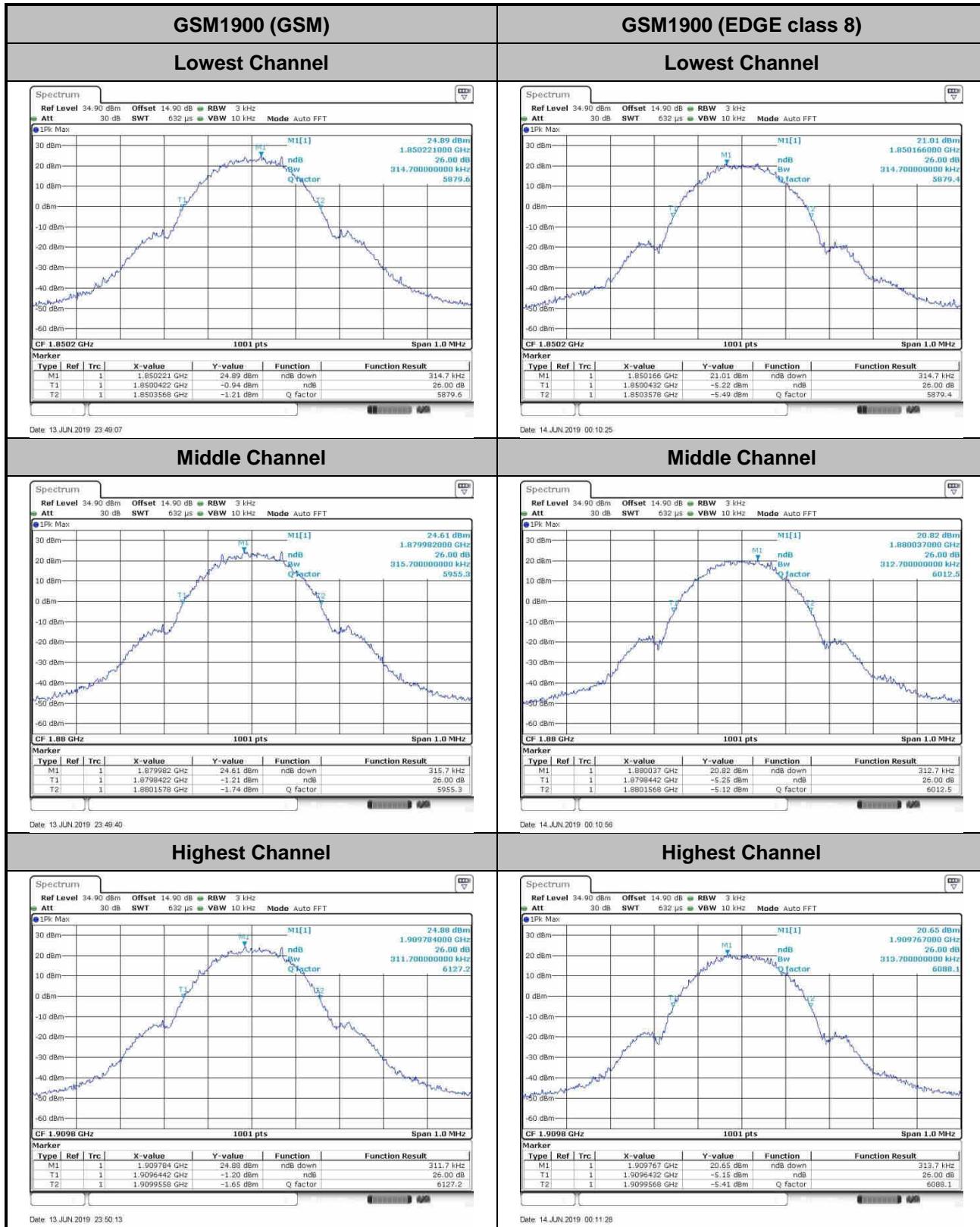
**26dB Bandwidth**

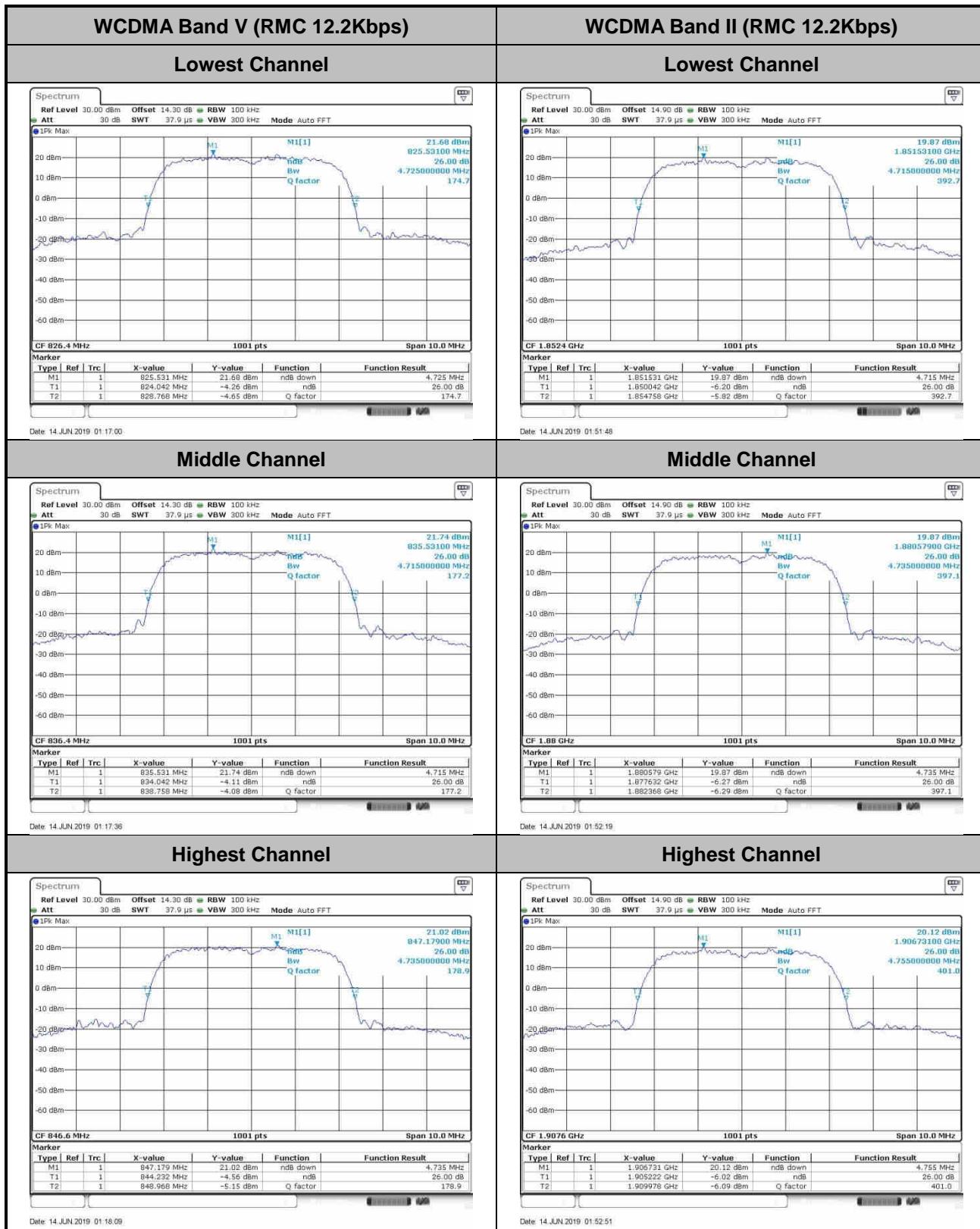
Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.316	0.315
Middle CH	0.319	0.317
Highest CH	0.316	0.314

Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.315	0.315
Middle CH	0.316	0.313
Highest CH	0.312	0.314

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.725	4.715	4.785
Middle CH	4.715	4.735	4.735
Highest CH	4.735	4.755	4.715









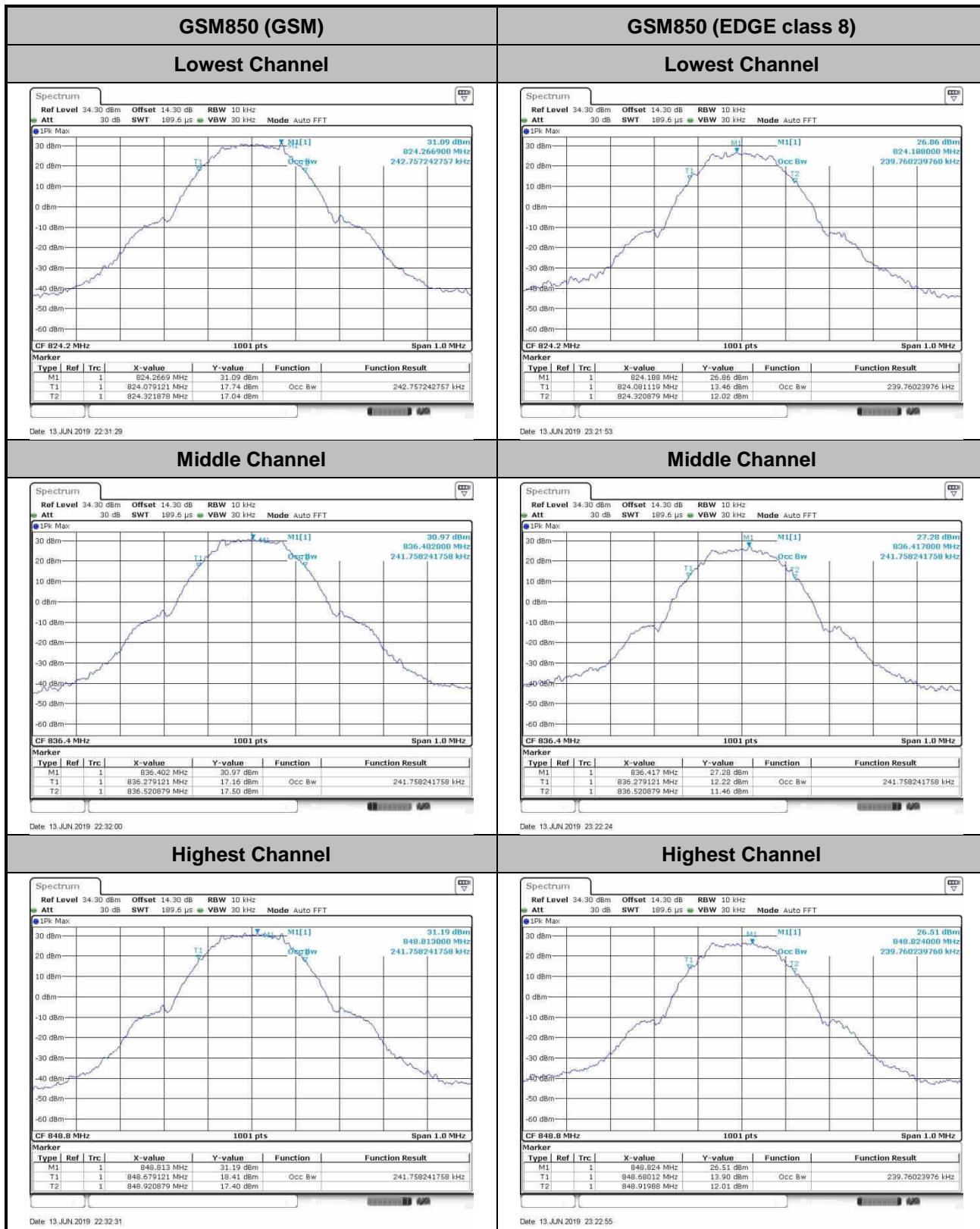


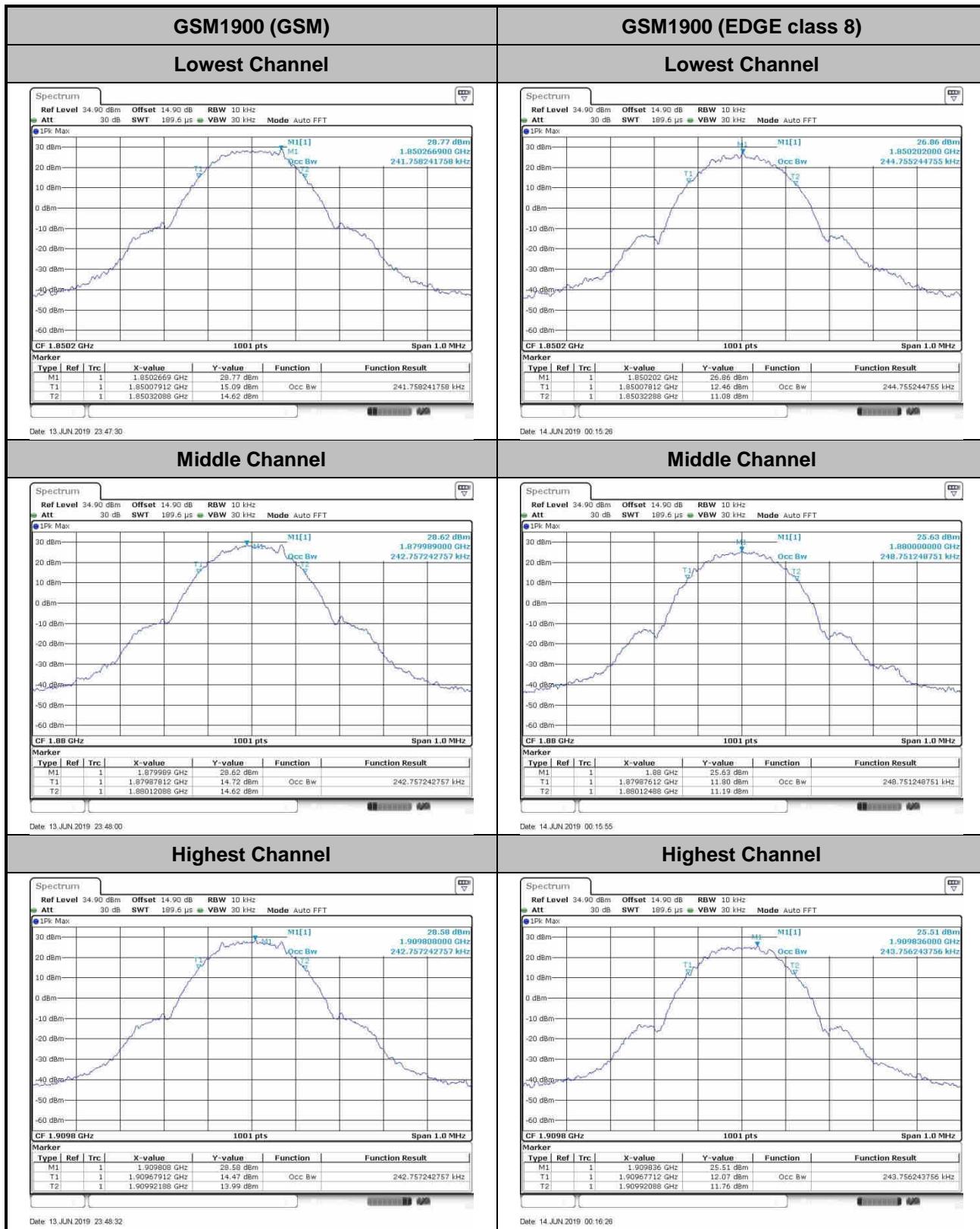
Occupied Bandwidth

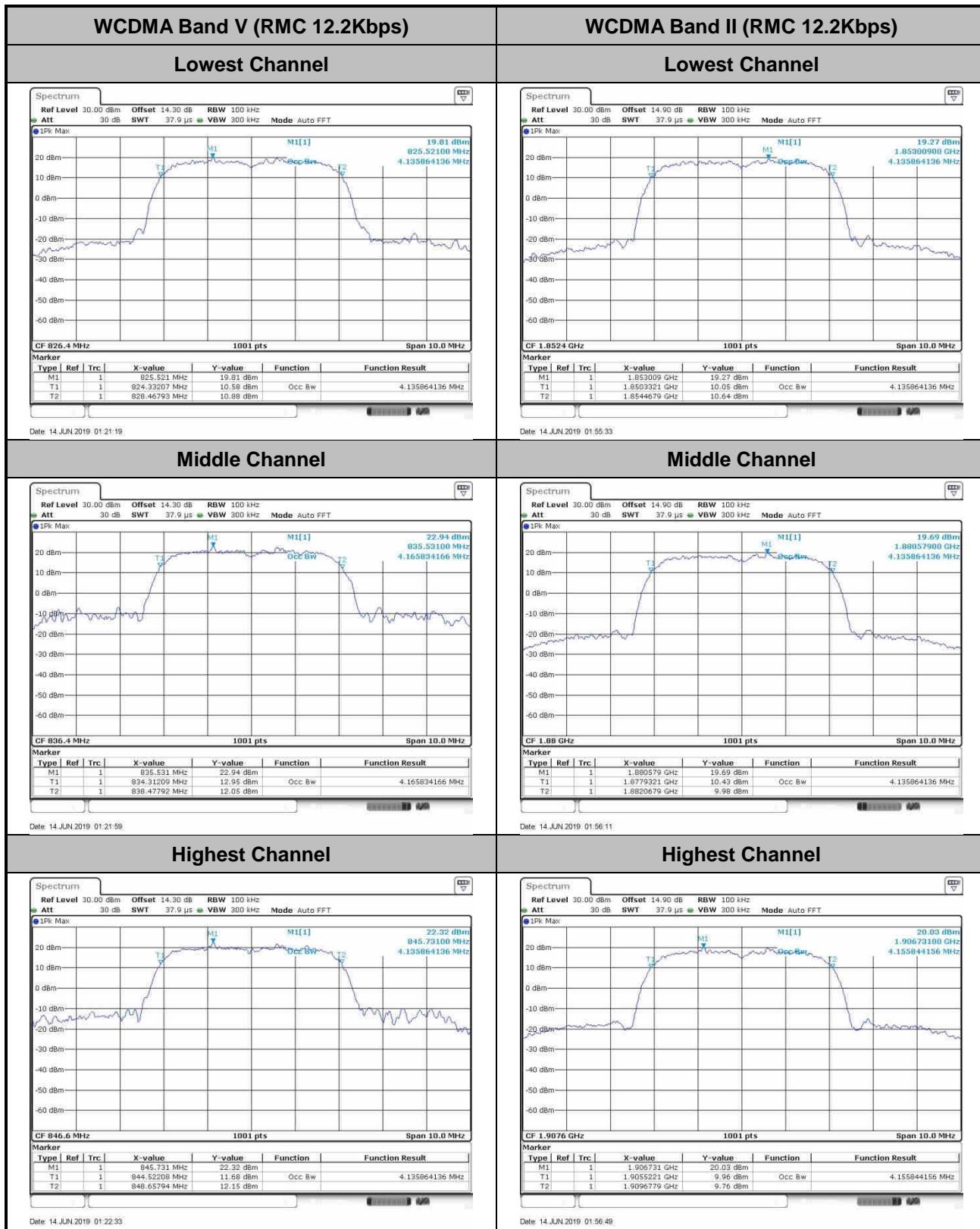
Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.243	0.240
Middle CH	0.242	0.242
Highest CH	0.242	0.240

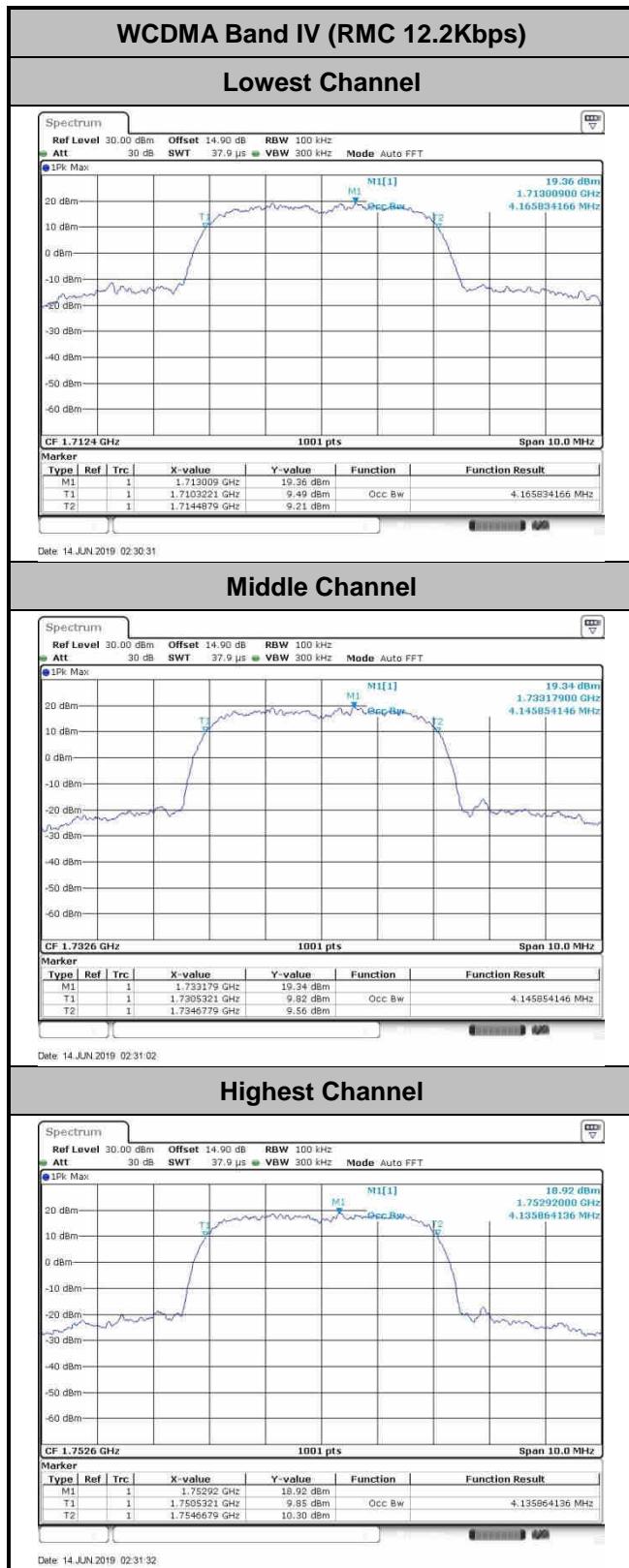
Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.242	0.245
Middle CH	0.243	0.249
Highest CH	0.243	0.244

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.136	4.136	4.166
Middle CH	4.166	4.136	4.146
Highest CH	4.136	4.156	4.136



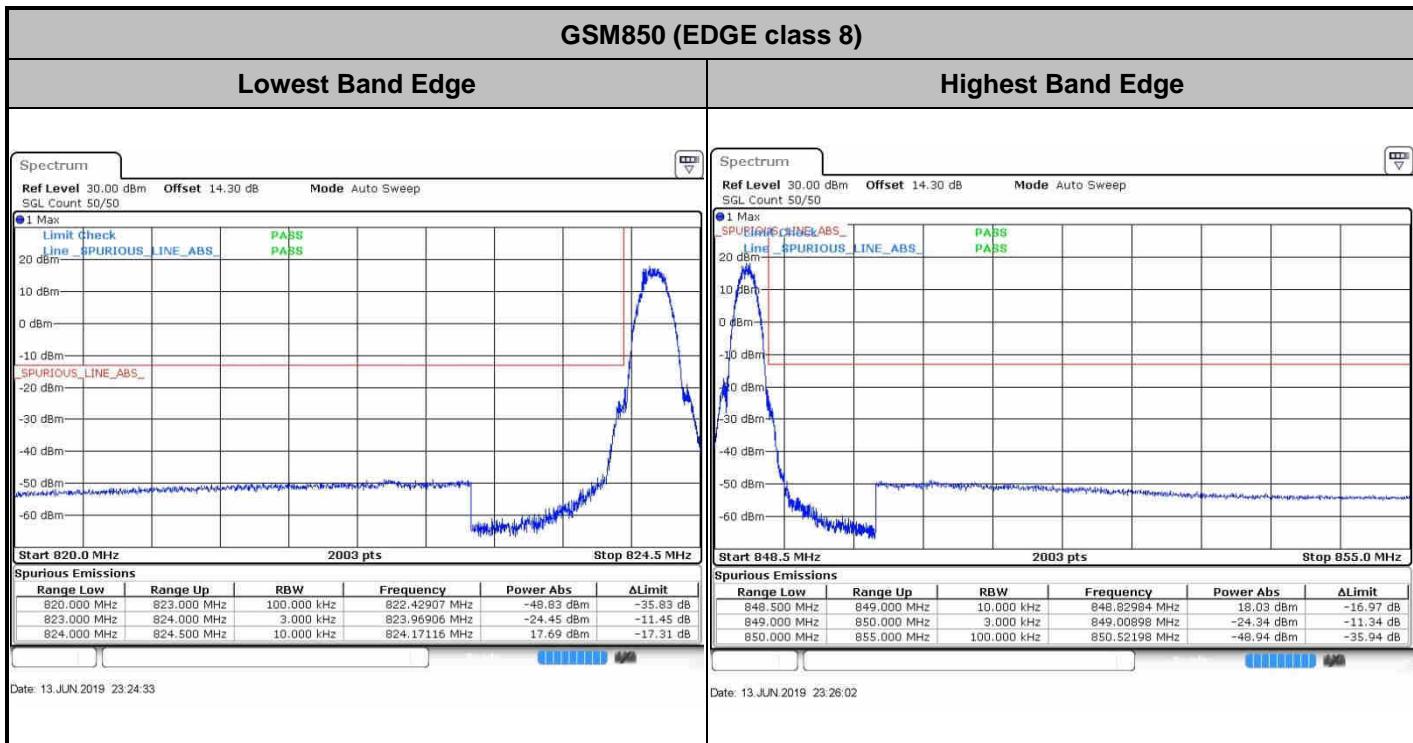
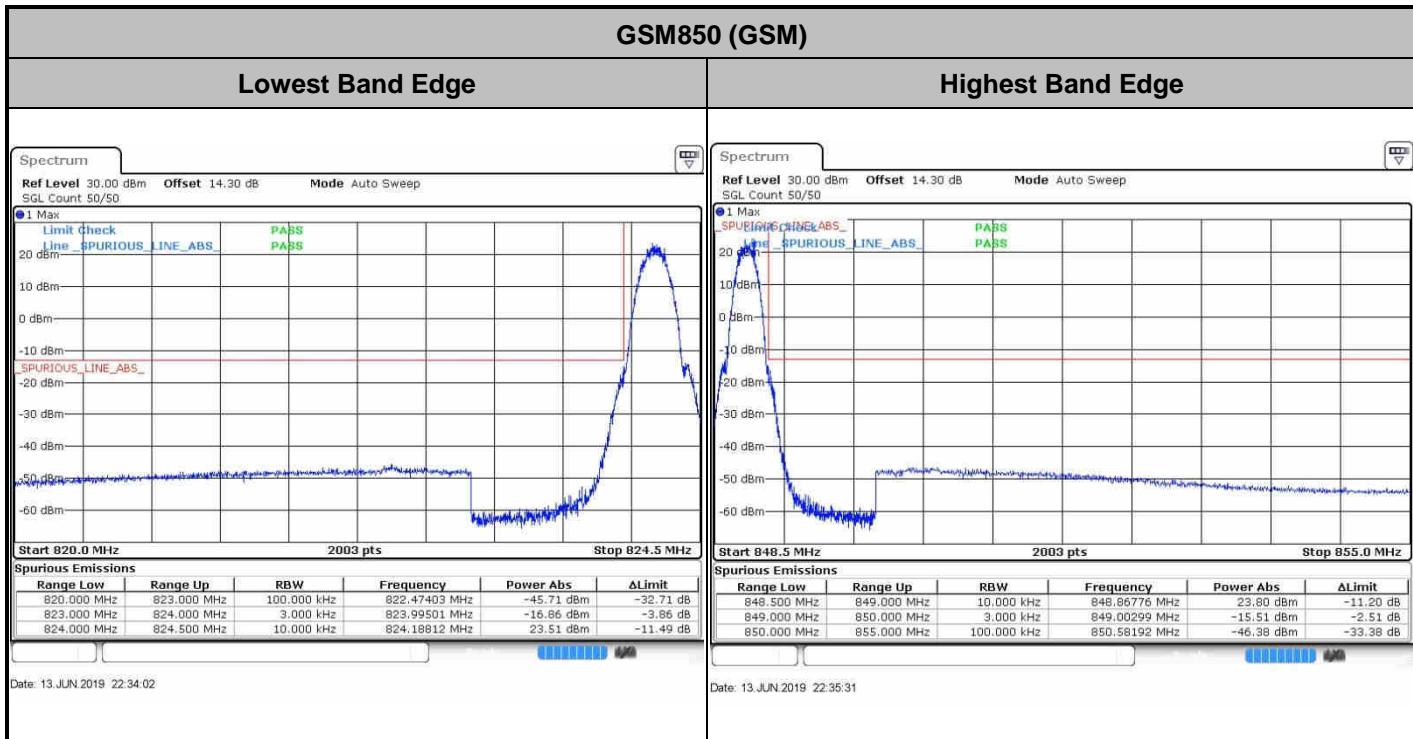


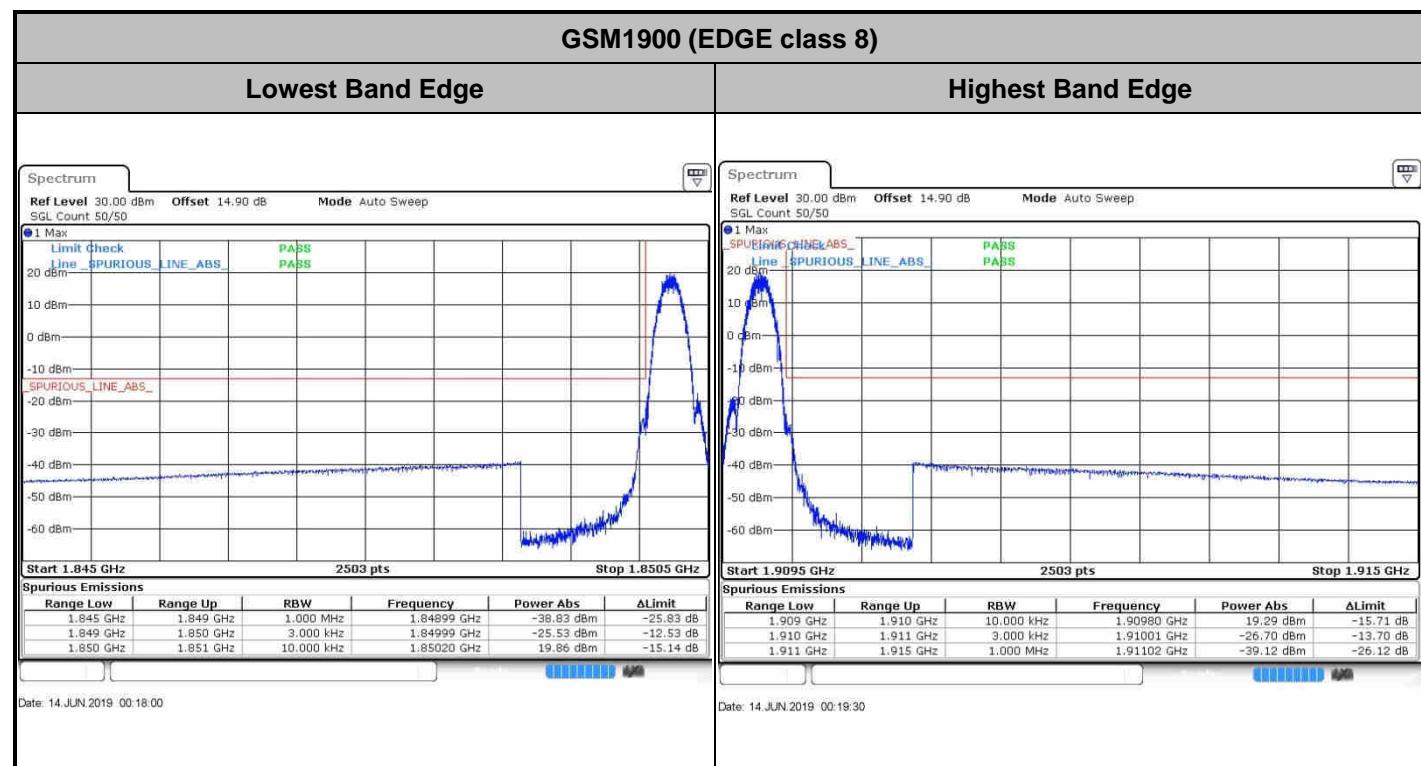
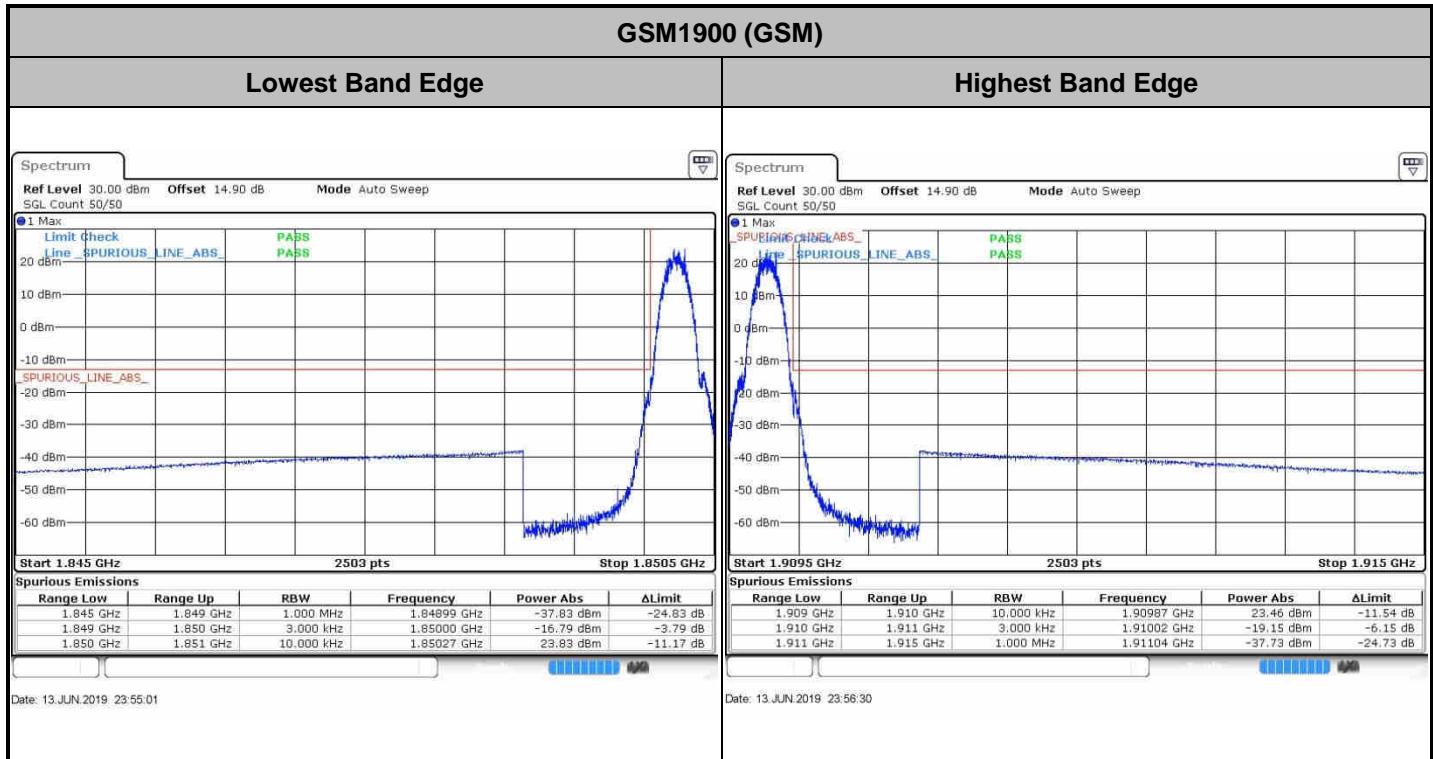


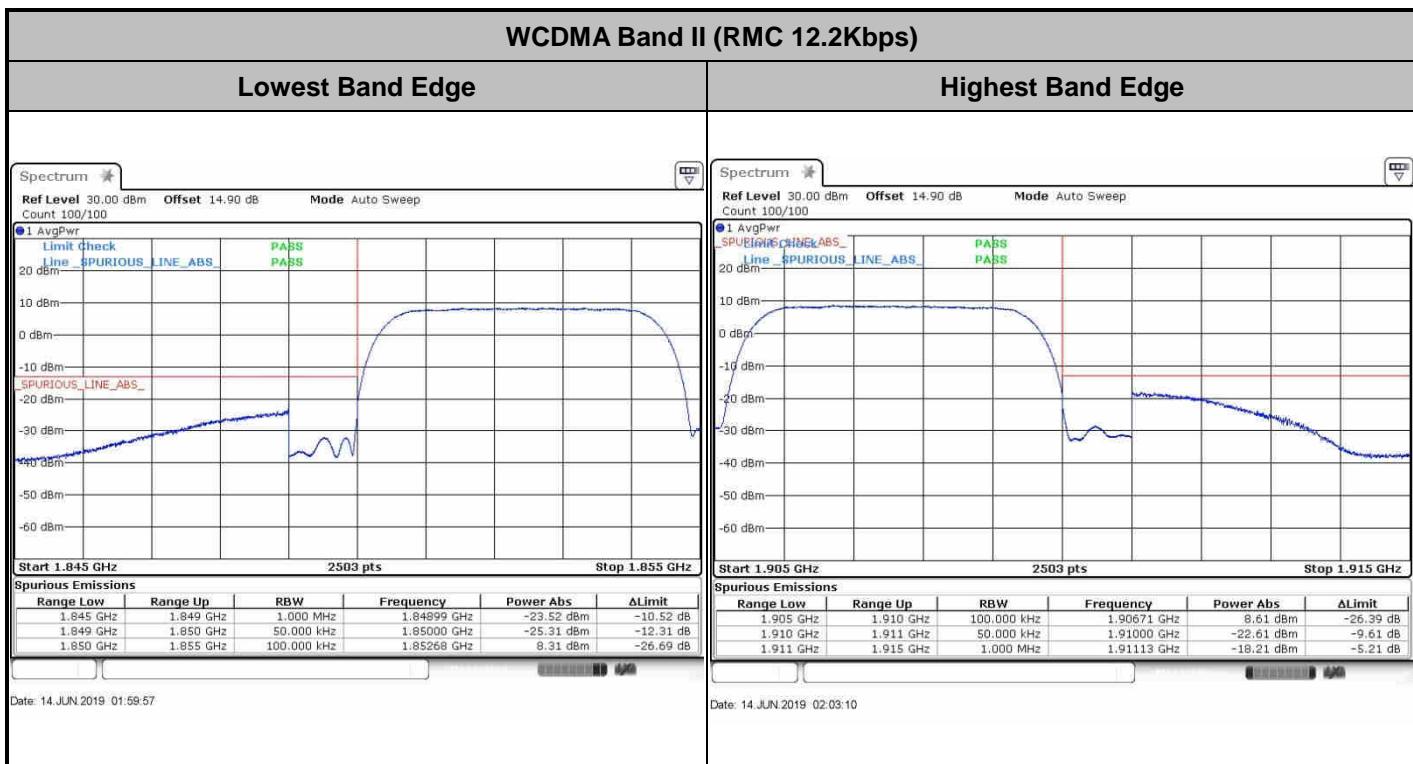
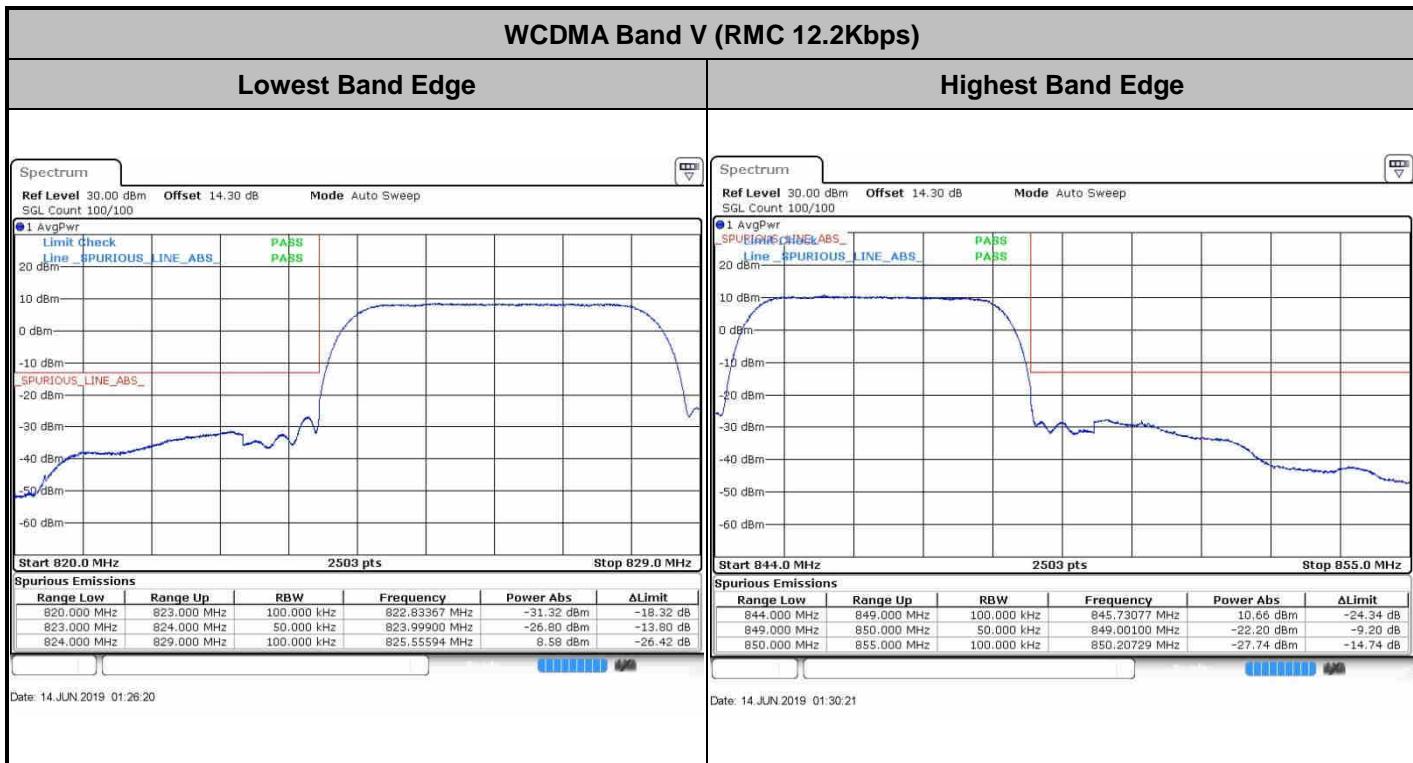


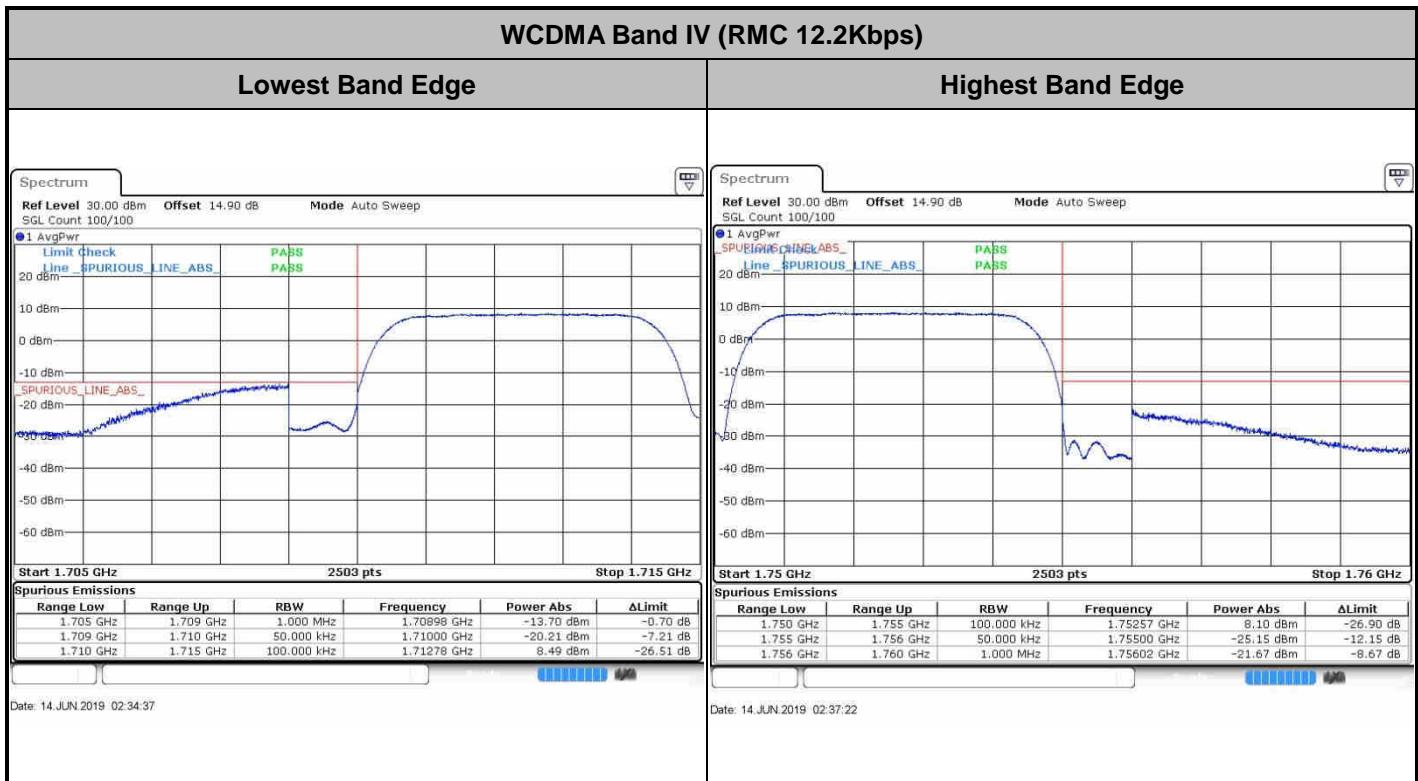


Conducted Band Edge



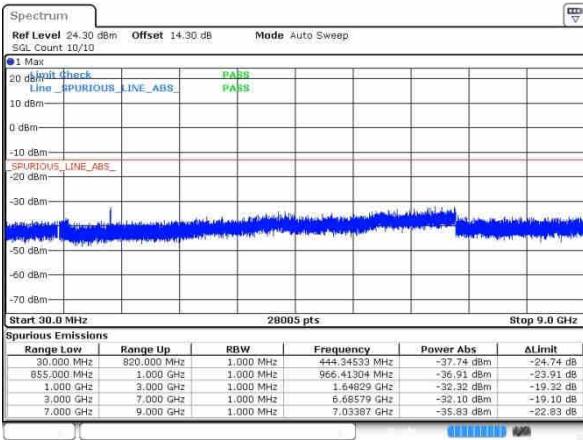
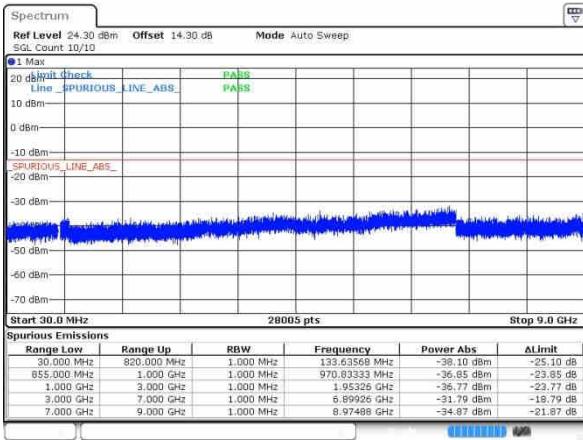
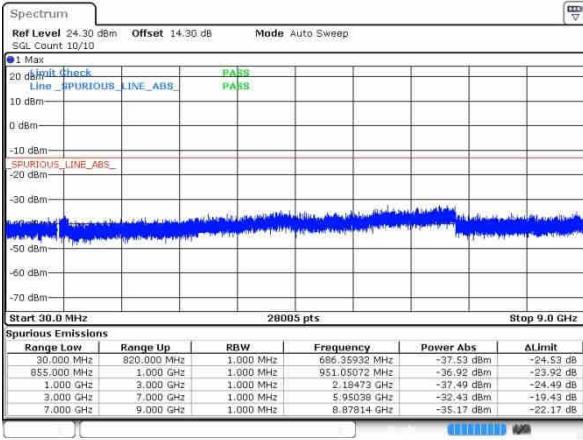
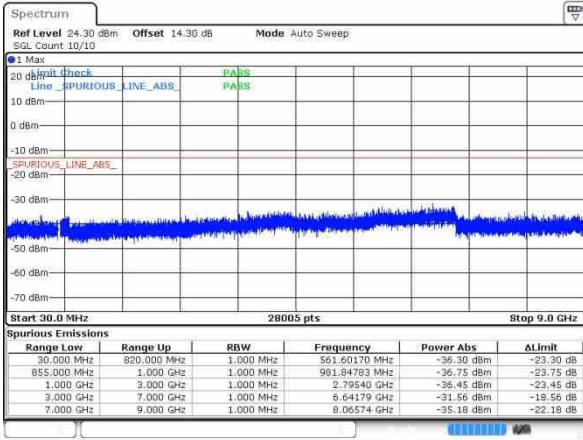
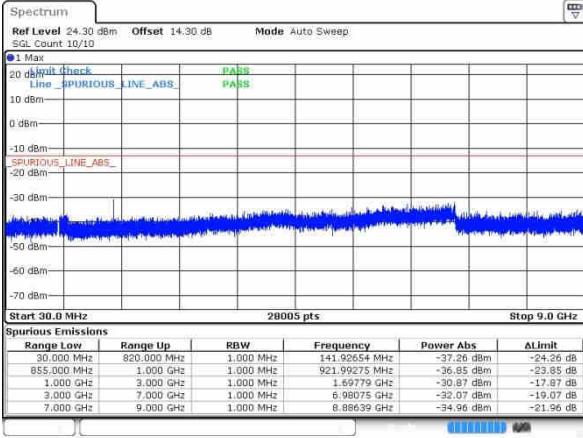
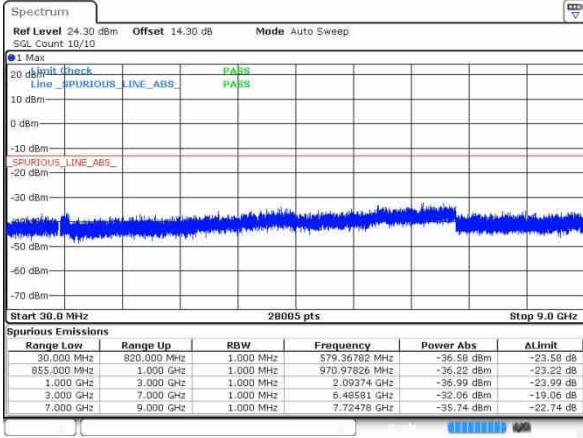






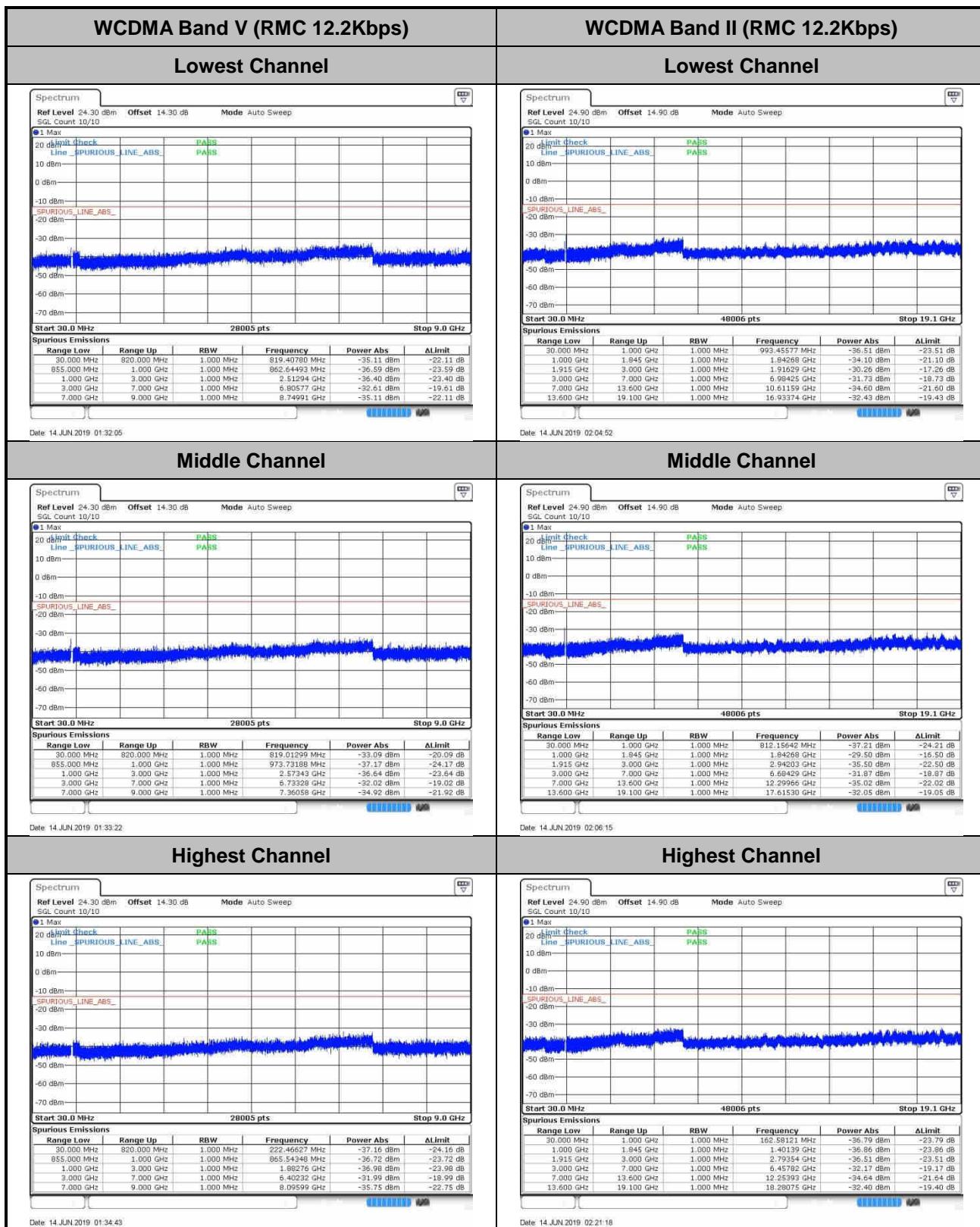


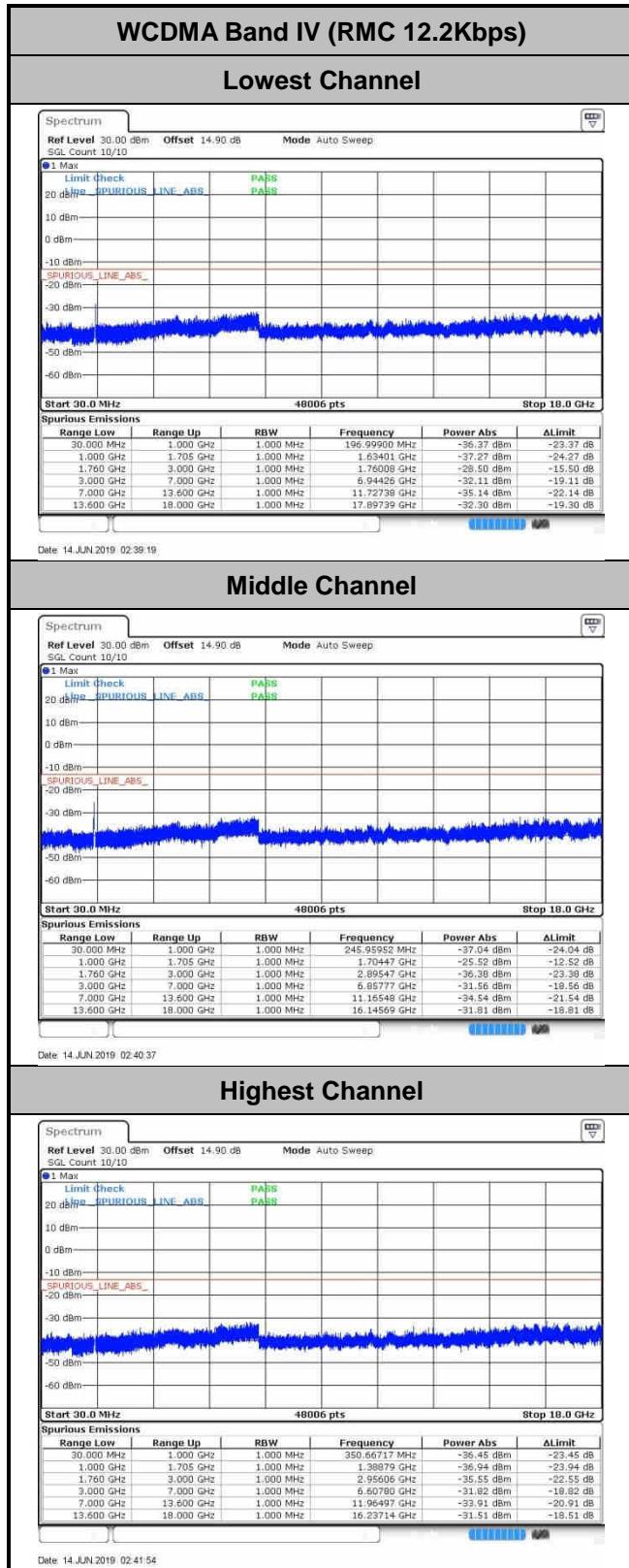
Conducted Spurious Emission

GSM850 (GSM)	GSM850 (EDGE class 8)																																																																								
Lowest Channel	Lowest Channel																																																																								
 <p>Spectrum Ref Level 24.30 dBm Offset 14.30 dB Mode Auto Sweep SQL Count 10/10</p> <table border="1"> <thead> <tr> <th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr> </thead> <tbody> <tr><td>30.000 MHz</td><td>820.000 MHz</td><td>1.000 MHz</td><td>444.34530 MHz</td><td>-37.74 dBm</td><td>-24.74 dB</td></tr> <tr><td>855.000 MHz</td><td>1.000 GHz</td><td>1.000 MHz</td><td>966.41304 MHz</td><td>-36.91 dBm</td><td>-23.91 dB</td></tr> <tr><td>1.000 GHz</td><td>3.000 GHz</td><td>1.000 MHz</td><td>1.64829 GHz</td><td>-32.32 dBm</td><td>-19.32 dB</td></tr> <tr><td>3.000 GHz</td><td>7.000 GHz</td><td>1.000 MHz</td><td>6.68579 GHz</td><td>-32.10 dBm</td><td>-19.10 dB</td></tr> <tr><td>7.000 GHz</td><td>9.000 GHz</td><td>1.000 MHz</td><td>7.03387 GHz</td><td>-35.83 dBm</td><td>-22.83 dB</td></tr> </tbody> </table> <p>Date: 13.JUN.2019 22:37:00</p>	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	820.000 MHz	1.000 MHz	444.34530 MHz	-37.74 dBm	-24.74 dB	855.000 MHz	1.000 GHz	1.000 MHz	966.41304 MHz	-36.91 dBm	-23.91 dB	1.000 GHz	3.000 GHz	1.000 MHz	1.64829 GHz	-32.32 dBm	-19.32 dB	3.000 GHz	7.000 GHz	1.000 MHz	6.68579 GHz	-32.10 dBm	-19.10 dB	7.000 GHz	9.000 GHz	1.000 MHz	7.03387 GHz	-35.83 dBm	-22.83 dB	 <p>Spectrum Ref Level 24.30 dBm Offset 14.30 dB Mode Auto Sweep SQL Count 10/10</p> <table border="1"> <thead> <tr> <th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr> </thead> <tbody> <tr><td>30.000 MHz</td><td>820.000 MHz</td><td>1.000 MHz</td><td>133.63568 MHz</td><td>-38.10 dBm</td><td>-25.10 dB</td></tr> <tr><td>855.000 MHz</td><td>1.000 GHz</td><td>1.000 MHz</td><td>970.83333 MHz</td><td>-36.85 dBm</td><td>-23.85 dB</td></tr> <tr><td>1.000 GHz</td><td>3.000 GHz</td><td>1.000 MHz</td><td>1.95326 GHz</td><td>-36.77 dBm</td><td>-23.77 dB</td></tr> <tr><td>3.000 GHz</td><td>7.000 GHz</td><td>1.000 MHz</td><td>6.89926 GHz</td><td>-31.79 dBm</td><td>-18.79 dB</td></tr> <tr><td>7.000 GHz</td><td>9.000 GHz</td><td>1.000 MHz</td><td>8.97488 GHz</td><td>-34.87 dBm</td><td>-21.87 dB</td></tr> </tbody> </table> <p>Date: 13.JUN.2019 23:27:25</p>	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	820.000 MHz	1.000 MHz	133.63568 MHz	-38.10 dBm	-25.10 dB	855.000 MHz	1.000 GHz	1.000 MHz	970.83333 MHz	-36.85 dBm	-23.85 dB	1.000 GHz	3.000 GHz	1.000 MHz	1.95326 GHz	-36.77 dBm	-23.77 dB	3.000 GHz	7.000 GHz	1.000 MHz	6.89926 GHz	-31.79 dBm	-18.79 dB	7.000 GHz	9.000 GHz	1.000 MHz	8.97488 GHz	-34.87 dBm	-21.87 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																																																																				
30.000 MHz	820.000 MHz	1.000 MHz	444.34530 MHz	-37.74 dBm	-24.74 dB																																																																				
855.000 MHz	1.000 GHz	1.000 MHz	966.41304 MHz	-36.91 dBm	-23.91 dB																																																																				
1.000 GHz	3.000 GHz	1.000 MHz	1.64829 GHz	-32.32 dBm	-19.32 dB																																																																				
3.000 GHz	7.000 GHz	1.000 MHz	6.68579 GHz	-32.10 dBm	-19.10 dB																																																																				
7.000 GHz	9.000 GHz	1.000 MHz	7.03387 GHz	-35.83 dBm	-22.83 dB																																																																				
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																																																																				
30.000 MHz	820.000 MHz	1.000 MHz	133.63568 MHz	-38.10 dBm	-25.10 dB																																																																				
855.000 MHz	1.000 GHz	1.000 MHz	970.83333 MHz	-36.85 dBm	-23.85 dB																																																																				
1.000 GHz	3.000 GHz	1.000 MHz	1.95326 GHz	-36.77 dBm	-23.77 dB																																																																				
3.000 GHz	7.000 GHz	1.000 MHz	6.89926 GHz	-31.79 dBm	-18.79 dB																																																																				
7.000 GHz	9.000 GHz	1.000 MHz	8.97488 GHz	-34.87 dBm	-21.87 dB																																																																				
Middle Channel	Middle Channel																																																																								
 <p>Spectrum Ref Level 24.30 dBm Offset 14.30 dB Mode Auto Sweep SQL Count 10/10</p> <table border="1"> <thead> <tr> <th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr> </thead> <tbody> <tr><td>30.000 MHz</td><td>820.000 MHz</td><td>1.000 MHz</td><td>651.53934 MHz</td><td>-37.95 dBm</td><td>-24.95 dB</td></tr> <tr><td>855.000 MHz</td><td>1.000 GHz</td><td>1.000 MHz</td><td>951.05973 MHz</td><td>-36.92 dBm</td><td>-23.92 dB</td></tr> <tr><td>1.000 GHz</td><td>3.000 GHz</td><td>1.000 MHz</td><td>2.18473 GHz</td><td>-37.49 dBm</td><td>-24.49 dB</td></tr> <tr><td>3.000 GHz</td><td>7.000 GHz</td><td>1.000 MHz</td><td>5.95036 GHz</td><td>-32.43 dBm</td><td>-19.43 dB</td></tr> <tr><td>7.000 GHz</td><td>9.000 GHz</td><td>1.000 MHz</td><td>8.87814 GHz</td><td>-35.17 dBm</td><td>-22.17 dB</td></tr> </tbody> </table> <p>Date: 13.JUN.2019 22:38:20</p>	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	820.000 MHz	1.000 MHz	651.53934 MHz	-37.95 dBm	-24.95 dB	855.000 MHz	1.000 GHz	1.000 MHz	951.05973 MHz	-36.92 dBm	-23.92 dB	1.000 GHz	3.000 GHz	1.000 MHz	2.18473 GHz	-37.49 dBm	-24.49 dB	3.000 GHz	7.000 GHz	1.000 MHz	5.95036 GHz	-32.43 dBm	-19.43 dB	7.000 GHz	9.000 GHz	1.000 MHz	8.87814 GHz	-35.17 dBm	-22.17 dB	 <p>Spectrum Ref Level 24.30 dBm Offset 14.30 dB Mode Auto Sweep SQL Count 10/10</p> <table border="1"> <thead> <tr> <th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr> </thead> <tbody> <tr><td>30.000 MHz</td><td>820.000 MHz</td><td>1.000 MHz</td><td>561.03590 MHz</td><td>-36.80 dBm</td><td>-23.80 dB</td></tr> <tr><td>855.000 MHz</td><td>1.000 GHz</td><td>1.000 MHz</td><td>981.04763 MHz</td><td>-36.75 dBm</td><td>-23.75 dB</td></tr> <tr><td>1.000 GHz</td><td>3.000 GHz</td><td>1.000 MHz</td><td>2.09540 GHz</td><td>-36.45 dBm</td><td>-23.45 dB</td></tr> <tr><td>3.000 GHz</td><td>7.000 GHz</td><td>1.000 MHz</td><td>8.64179 GHz</td><td>-31.56 dBm</td><td>-18.56 dB</td></tr> <tr><td>7.000 GHz</td><td>9.000 GHz</td><td>1.000 MHz</td><td>8.065574 GHz</td><td>-35.18 dBm</td><td>-22.18 dB</td></tr> </tbody> </table> <p>Date: 13.JUN.2019 23:28:43</p>	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	820.000 MHz	1.000 MHz	561.03590 MHz	-36.80 dBm	-23.80 dB	855.000 MHz	1.000 GHz	1.000 MHz	981.04763 MHz	-36.75 dBm	-23.75 dB	1.000 GHz	3.000 GHz	1.000 MHz	2.09540 GHz	-36.45 dBm	-23.45 dB	3.000 GHz	7.000 GHz	1.000 MHz	8.64179 GHz	-31.56 dBm	-18.56 dB	7.000 GHz	9.000 GHz	1.000 MHz	8.065574 GHz	-35.18 dBm	-22.18 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																																																																				
30.000 MHz	820.000 MHz	1.000 MHz	651.53934 MHz	-37.95 dBm	-24.95 dB																																																																				
855.000 MHz	1.000 GHz	1.000 MHz	951.05973 MHz	-36.92 dBm	-23.92 dB																																																																				
1.000 GHz	3.000 GHz	1.000 MHz	2.18473 GHz	-37.49 dBm	-24.49 dB																																																																				
3.000 GHz	7.000 GHz	1.000 MHz	5.95036 GHz	-32.43 dBm	-19.43 dB																																																																				
7.000 GHz	9.000 GHz	1.000 MHz	8.87814 GHz	-35.17 dBm	-22.17 dB																																																																				
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																																																																				
30.000 MHz	820.000 MHz	1.000 MHz	561.03590 MHz	-36.80 dBm	-23.80 dB																																																																				
855.000 MHz	1.000 GHz	1.000 MHz	981.04763 MHz	-36.75 dBm	-23.75 dB																																																																				
1.000 GHz	3.000 GHz	1.000 MHz	2.09540 GHz	-36.45 dBm	-23.45 dB																																																																				
3.000 GHz	7.000 GHz	1.000 MHz	8.64179 GHz	-31.56 dBm	-18.56 dB																																																																				
7.000 GHz	9.000 GHz	1.000 MHz	8.065574 GHz	-35.18 dBm	-22.18 dB																																																																				
Highest Channel	Highest Channel																																																																								
 <p>Spectrum Ref Level 24.30 dBm Offset 14.30 dB Mode Auto Sweep SQL Count 10/10</p> <table border="1"> <thead> <tr> <th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr> </thead> <tbody> <tr><td>30.000 MHz</td><td>820.000 MHz</td><td>1.000 MHz</td><td>141.99354 MHz</td><td>-37.26 dBm</td><td>-24.26 dB</td></tr> <tr><td>855.000 MHz</td><td>1.000 GHz</td><td>1.000 MHz</td><td>932.99391 MHz</td><td>-36.85 dBm</td><td>-23.85 dB</td></tr> <tr><td>1.000 GHz</td><td>3.000 GHz</td><td>1.000 MHz</td><td>1.69779 GHz</td><td>-30.87 dBm</td><td>-17.87 dB</td></tr> <tr><td>3.000 GHz</td><td>7.000 GHz</td><td>1.000 MHz</td><td>6.98075 GHz</td><td>-32.07 dBm</td><td>-19.07 dB</td></tr> <tr><td>7.000 GHz</td><td>9.000 GHz</td><td>1.000 MHz</td><td>8.88639 GHz</td><td>-34.96 dBm</td><td>-21.96 dB</td></tr> </tbody> </table> <p>Date: 13.JUN.2019 22:39:38</p>	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	820.000 MHz	1.000 MHz	141.99354 MHz	-37.26 dBm	-24.26 dB	855.000 MHz	1.000 GHz	1.000 MHz	932.99391 MHz	-36.85 dBm	-23.85 dB	1.000 GHz	3.000 GHz	1.000 MHz	1.69779 GHz	-30.87 dBm	-17.87 dB	3.000 GHz	7.000 GHz	1.000 MHz	6.98075 GHz	-32.07 dBm	-19.07 dB	7.000 GHz	9.000 GHz	1.000 MHz	8.88639 GHz	-34.96 dBm	-21.96 dB	 <p>Spectrum Ref Level 24.30 dBm Offset 14.30 dB Mode Auto Sweep SQL Count 10/10</p> <table border="1"> <thead> <tr> <th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr> </thead> <tbody> <tr><td>30.000 MHz</td><td>820.000 MHz</td><td>1.000 MHz</td><td>579.36792 MHz</td><td>-36.58 dBm</td><td>-23.58 dB</td></tr> <tr><td>855.000 MHz</td><td>1.000 GHz</td><td>1.000 MHz</td><td>970.03039 MHz</td><td>-36.40 dBm</td><td>-23.40 dB</td></tr> <tr><td>1.000 GHz</td><td>3.000 GHz</td><td>1.000 MHz</td><td>2.09374 GHz</td><td>-35.89 dBm</td><td>-22.99 dB</td></tr> <tr><td>3.000 GHz</td><td>7.000 GHz</td><td>1.000 MHz</td><td>6.48521 GHz</td><td>-32.06 dBm</td><td>-19.06 dB</td></tr> <tr><td>7.000 GHz</td><td>9.000 GHz</td><td>1.000 MHz</td><td>7.72478 GHz</td><td>-35.74 dBm</td><td>-22.74 dB</td></tr> </tbody> </table> <p>Date: 13.JUN.2019 23:30:01</p>	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	820.000 MHz	1.000 MHz	579.36792 MHz	-36.58 dBm	-23.58 dB	855.000 MHz	1.000 GHz	1.000 MHz	970.03039 MHz	-36.40 dBm	-23.40 dB	1.000 GHz	3.000 GHz	1.000 MHz	2.09374 GHz	-35.89 dBm	-22.99 dB	3.000 GHz	7.000 GHz	1.000 MHz	6.48521 GHz	-32.06 dBm	-19.06 dB	7.000 GHz	9.000 GHz	1.000 MHz	7.72478 GHz	-35.74 dBm	-22.74 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																																																																				
30.000 MHz	820.000 MHz	1.000 MHz	141.99354 MHz	-37.26 dBm	-24.26 dB																																																																				
855.000 MHz	1.000 GHz	1.000 MHz	932.99391 MHz	-36.85 dBm	-23.85 dB																																																																				
1.000 GHz	3.000 GHz	1.000 MHz	1.69779 GHz	-30.87 dBm	-17.87 dB																																																																				
3.000 GHz	7.000 GHz	1.000 MHz	6.98075 GHz	-32.07 dBm	-19.07 dB																																																																				
7.000 GHz	9.000 GHz	1.000 MHz	8.88639 GHz	-34.96 dBm	-21.96 dB																																																																				
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																																																																				
30.000 MHz	820.000 MHz	1.000 MHz	579.36792 MHz	-36.58 dBm	-23.58 dB																																																																				
855.000 MHz	1.000 GHz	1.000 MHz	970.03039 MHz	-36.40 dBm	-23.40 dB																																																																				
1.000 GHz	3.000 GHz	1.000 MHz	2.09374 GHz	-35.89 dBm	-22.99 dB																																																																				
3.000 GHz	7.000 GHz	1.000 MHz	6.48521 GHz	-32.06 dBm	-19.06 dB																																																																				
7.000 GHz	9.000 GHz	1.000 MHz	7.72478 GHz	-35.74 dBm	-22.74 dB																																																																				



GSM1900 (GSM)	GSM1900 (EDGE class 8)																																																																																																																																																						
Lowest Channel																																																																																																																																																							
<p>Spectrum</p> <p>Ref Level 24.90 dBm Offset 14.90 dB Mode Auto Sweep SQL Count 10/10</p> <table border="1"> <thead> <tr> <th colspan="2">20 dBc/Hz check</th> <th>PASS</th> </tr> <tr> <th>Line</th> <th>SPURIOUS LINE ABS</th> <th>PASS</th> </tr> </thead> <tbody> <tr><td>10 dBm</td><td></td><td></td></tr> <tr><td>0 dBm</td><td></td><td></td></tr> <tr><td>-10 dBm</td><td></td><td></td></tr> <tr><td>-20 dBm</td><td></td><td></td></tr> <tr><td>-30 dBm</td><td></td><td></td></tr> <tr><td>-40 dBm</td><td></td><td></td></tr> <tr><td>-50 dBm</td><td></td><td></td></tr> <tr><td>-60 dBm</td><td></td><td></td></tr> <tr><td>-70 dBm</td><td></td><td></td></tr> </tbody> </table> <p>Start 30.0 MHz 48006 pts Stop 19.1 GHz</p> <p>Spurious Emissions</p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs</th> <th>ALimit</th> </tr> </thead> <tbody> <tr><td>30.000 GHz</td><td>1.000 GHz</td><td>1.000 MHz</td><td>929.95252 MHz</td><td>-35.69 dBm</td><td>-22.69 dB</td></tr> <tr><td>1.000 GHz</td><td>1.945 GHz</td><td>1.000 MHz</td><td>1.83761 GHz</td><td>-36.16 dBm</td><td>-23.16 dB</td></tr> <tr><td>1.915 GHz</td><td>3.000 GHz</td><td>1.000 MHz</td><td>2.80118 GHz</td><td>-36.10 dBm</td><td>-23.10 dB</td></tr> <tr><td>3.000 GHz</td><td>7.000 GHz</td><td>1.000 MHz</td><td>5.80190 GHz</td><td>-31.86 dBm</td><td>-19.86 dB</td></tr> <tr><td>7.000 GHz</td><td>13.600 GHz</td><td>1.000 MHz</td><td>11.23525 GHz</td><td>-31.78 dBm</td><td>-21.78 dB</td></tr> <tr><td>13.600 GHz</td><td>19.100 GHz</td><td>1.000 MHz</td><td>18.25797 GHz</td><td>-32.05 dBm</td><td>-19.05 dB</td></tr> </tbody> </table>	20 dBc/Hz check		PASS	Line	SPURIOUS LINE ABS	PASS	10 dBm			0 dBm			-10 dBm			-20 dBm			-30 dBm			-40 dBm			-50 dBm			-60 dBm			-70 dBm			Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 GHz	1.000 GHz	1.000 MHz	929.95252 MHz	-35.69 dBm	-22.69 dB	1.000 GHz	1.945 GHz	1.000 MHz	1.83761 GHz	-36.16 dBm	-23.16 dB	1.915 GHz	3.000 GHz	1.000 MHz	2.80118 GHz	-36.10 dBm	-23.10 dB	3.000 GHz	7.000 GHz	1.000 MHz	5.80190 GHz	-31.86 dBm	-19.86 dB	7.000 GHz	13.600 GHz	1.000 MHz	11.23525 GHz	-31.78 dBm	-21.78 dB	13.600 GHz	19.100 GHz	1.000 MHz	18.25797 GHz	-32.05 dBm	-19.05 dB	<p>Spectrum</p> <p>Ref Level 24.90 dBm Offset 14.90 dB Mode Auto Sweep SQL Count 10/10</p> <table border="1"> <thead> <tr> <th colspan="2">20 dBc/Hz check</th> <th>PASS</th> </tr> <tr> <th>Line</th> <th>SPURIOUS LINE ABS</th> <th>PASS</th> </tr> </thead> <tbody> <tr><td>10 dBm</td><td></td><td></td></tr> <tr><td>0 dBm</td><td></td><td></td></tr> <tr><td>-10 dBm</td><td></td><td></td></tr> <tr><td>-20 dBm</td><td></td><td></td></tr> <tr><td>-30 dBm</td><td></td><td></td></tr> <tr><td>-40 dBm</td><td></td><td></td></tr> <tr><td>-50 dBm</td><td></td><td></td></tr> <tr><td>-60 dBm</td><td></td><td></td></tr> <tr><td>-70 dBm</td><td></td><td></td></tr> </tbody> </table> <p>Start 30.0 MHz 48006 pts Stop 19.1 GHz</p> <p>Spurious Emissions</p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs</th> <th>ALimit</th> </tr> </thead> <tbody> <tr><td>30.000 MHz</td><td>1.000 GHz</td><td>1.000 MHz</td><td>792.28136 MHz</td><td>-36.17 dBm</td><td>-23.17 dB</td></tr> <tr><td>1.000 GHz</td><td>1.945 GHz</td><td>1.000 MHz</td><td>1.69924 GHz</td><td>-36.63 dBm</td><td>-23.63 dB</td></tr> <tr><td>1.915 GHz</td><td>3.000 GHz</td><td>1.000 MHz</td><td>2.80555 GHz</td><td>-37.06 dBm</td><td>-24.06 dB</td></tr> <tr><td>3.000 GHz</td><td>7.000 GHz</td><td>1.000 MHz</td><td>5.84776 GHz</td><td>-31.95 dBm</td><td>-19.95 dB</td></tr> <tr><td>7.000 GHz</td><td>13.600 GHz</td><td>1.000 MHz</td><td>10.62094 GHz</td><td>-32.53 dBm</td><td>-21.53 dB</td></tr> <tr><td>13.600 GHz</td><td>19.100 GHz</td><td>1.000 MHz</td><td>16.21290 GHz</td><td>-32.02 dBm</td><td>-19.02 dB</td></tr> </tbody> </table>	20 dBc/Hz check		PASS	Line	SPURIOUS LINE ABS	PASS	10 dBm			0 dBm			-10 dBm			-20 dBm			-30 dBm			-40 dBm			-50 dBm			-60 dBm			-70 dBm			Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	1.000 MHz	792.28136 MHz	-36.17 dBm	-23.17 dB	1.000 GHz	1.945 GHz	1.000 MHz	1.69924 GHz	-36.63 dBm	-23.63 dB	1.915 GHz	3.000 GHz	1.000 MHz	2.80555 GHz	-37.06 dBm	-24.06 dB	3.000 GHz	7.000 GHz	1.000 MHz	5.84776 GHz	-31.95 dBm	-19.95 dB	7.000 GHz	13.600 GHz	1.000 MHz	10.62094 GHz	-32.53 dBm	-21.53 dB	13.600 GHz	19.100 GHz	1.000 MHz	16.21290 GHz	-32.02 dBm	-19.02 dB
20 dBc/Hz check		PASS																																																																																																																																																					
Line	SPURIOUS LINE ABS	PASS																																																																																																																																																					
10 dBm																																																																																																																																																							
0 dBm																																																																																																																																																							
-10 dBm																																																																																																																																																							
-20 dBm																																																																																																																																																							
-30 dBm																																																																																																																																																							
-40 dBm																																																																																																																																																							
-50 dBm																																																																																																																																																							
-60 dBm																																																																																																																																																							
-70 dBm																																																																																																																																																							
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																																																																																																																																																		
30.000 GHz	1.000 GHz	1.000 MHz	929.95252 MHz	-35.69 dBm	-22.69 dB																																																																																																																																																		
1.000 GHz	1.945 GHz	1.000 MHz	1.83761 GHz	-36.16 dBm	-23.16 dB																																																																																																																																																		
1.915 GHz	3.000 GHz	1.000 MHz	2.80118 GHz	-36.10 dBm	-23.10 dB																																																																																																																																																		
3.000 GHz	7.000 GHz	1.000 MHz	5.80190 GHz	-31.86 dBm	-19.86 dB																																																																																																																																																		
7.000 GHz	13.600 GHz	1.000 MHz	11.23525 GHz	-31.78 dBm	-21.78 dB																																																																																																																																																		
13.600 GHz	19.100 GHz	1.000 MHz	18.25797 GHz	-32.05 dBm	-19.05 dB																																																																																																																																																		
20 dBc/Hz check		PASS																																																																																																																																																					
Line	SPURIOUS LINE ABS	PASS																																																																																																																																																					
10 dBm																																																																																																																																																							
0 dBm																																																																																																																																																							
-10 dBm																																																																																																																																																							
-20 dBm																																																																																																																																																							
-30 dBm																																																																																																																																																							
-40 dBm																																																																																																																																																							
-50 dBm																																																																																																																																																							
-60 dBm																																																																																																																																																							
-70 dBm																																																																																																																																																							
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																																																																																																																																																		
30.000 MHz	1.000 GHz	1.000 MHz	792.28136 MHz	-36.17 dBm	-23.17 dB																																																																																																																																																		
1.000 GHz	1.945 GHz	1.000 MHz	1.69924 GHz	-36.63 dBm	-23.63 dB																																																																																																																																																		
1.915 GHz	3.000 GHz	1.000 MHz	2.80555 GHz	-37.06 dBm	-24.06 dB																																																																																																																																																		
3.000 GHz	7.000 GHz	1.000 MHz	5.84776 GHz	-31.95 dBm	-19.95 dB																																																																																																																																																		
7.000 GHz	13.600 GHz	1.000 MHz	10.62094 GHz	-32.53 dBm	-21.53 dB																																																																																																																																																		
13.600 GHz	19.100 GHz	1.000 MHz	16.21290 GHz	-32.02 dBm	-19.02 dB																																																																																																																																																		
Date: 13.JUN.2019 23:57:51	Date: 14.JUN.2019 00:20:59																																																																																																																																																						
Middle Channel	Middle Channel																																																																																																																																																						
<p>Spectrum</p> <p>Ref Level 24.80 dBm Offset 14.90 dB Mode Auto Sweep SQL Count 10/10</p> <table border="1"> <thead> <tr> <th colspan="2">20 dBc/Hz check</th> <th>PASS</th> </tr> <tr> <th>Line</th> <th>SPURIOUS LINE ABS</th> <th>PASS</th> </tr> </thead> <tbody> <tr><td>10 dBm</td><td></td><td></td></tr> <tr><td>0 dBm</td><td></td><td></td></tr> <tr><td>-10 dBm</td><td></td><td></td></tr> <tr><td>-20 dBm</td><td></td><td></td></tr> <tr><td>-30 dBm</td><td></td><td></td></tr> <tr><td>-40 dBm</td><td></td><td></td></tr> <tr><td>-50 dBm</td><td></td><td></td></tr> <tr><td>-60 dBm</td><td></td><td></td></tr> <tr><td>-70 dBm</td><td></td><td></td></tr> </tbody> </table> <p>Start 30.0 MHz 48006 pts Stop 19.1 GHz</p> <p>Spurious Emissions</p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs</th> <th>ALimit</th> </tr> </thead> <tbody> <tr><td>30.000 MHz</td><td>1.000 GHz</td><td>1.000 MHz</td><td>976.48926 MHz</td><td>-36.01 dBm</td><td>-23.01 dB</td></tr> <tr><td>1.000 GHz</td><td>1.945 GHz</td><td>1.000 MHz</td><td>1.79116 GHz</td><td>-37.22 dBm</td><td>-24.22 dB</td></tr> <tr><td>1.915 GHz</td><td>3.000 GHz</td><td>1.000 MHz</td><td>2.96603 GHz</td><td>-35.51 dBm</td><td>-22.51 dB</td></tr> <tr><td>3.000 GHz</td><td>7.000 GHz</td><td>1.000 MHz</td><td>6.68977 GHz</td><td>-32.34 dBm</td><td>-19.34 dB</td></tr> <tr><td>7.000 GHz</td><td>13.600 GHz</td><td>1.000 MHz</td><td>12.85402 GHz</td><td>-35.10 dBm</td><td>-22.10 dB</td></tr> <tr><td>13.600 GHz</td><td>19.100 GHz</td><td>1.000 MHz</td><td>16.84771 GHz</td><td>-31.57 dBm</td><td>-18.57 dB</td></tr> </tbody> </table>	20 dBc/Hz check		PASS	Line	SPURIOUS LINE ABS	PASS	10 dBm			0 dBm			-10 dBm			-20 dBm			-30 dBm			-40 dBm			-50 dBm			-60 dBm			-70 dBm			Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	1.000 MHz	976.48926 MHz	-36.01 dBm	-23.01 dB	1.000 GHz	1.945 GHz	1.000 MHz	1.79116 GHz	-37.22 dBm	-24.22 dB	1.915 GHz	3.000 GHz	1.000 MHz	2.96603 GHz	-35.51 dBm	-22.51 dB	3.000 GHz	7.000 GHz	1.000 MHz	6.68977 GHz	-32.34 dBm	-19.34 dB	7.000 GHz	13.600 GHz	1.000 MHz	12.85402 GHz	-35.10 dBm	-22.10 dB	13.600 GHz	19.100 GHz	1.000 MHz	16.84771 GHz	-31.57 dBm	-18.57 dB	<p>Spectrum</p> <p>Ref Level 24.80 dBm Offset 14.90 dB Mode Auto Sweep SQL Count 10/10</p> <table border="1"> <thead> <tr> <th colspan="2">20 dBc/Hz check</th> <th>PASS</th> </tr> <tr> <th>Line</th> <th>SPURIOUS LINE ABS</th> <th>PASS</th> </tr> </thead> <tbody> <tr><td>10 dBm</td><td></td><td></td></tr> <tr><td>0 dBm</td><td></td><td></td></tr> <tr><td>-10 dBm</td><td></td><td></td></tr> <tr><td>-20 dBm</td><td></td><td></td></tr> <tr><td>-30 dBm</td><td></td><td></td></tr> <tr><td>-40 dBm</td><td></td><td></td></tr> <tr><td>-50 dBm</td><td></td><td></td></tr> <tr><td>-60 dBm</td><td></td><td></td></tr> <tr><td>-70 dBm</td><td></td><td></td></tr> </tbody> </table> <p>Start 30.0 MHz 48006 pts Stop 19.1 GHz</p> <p>Spurious Emissions</p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs</th> <th>ALimit</th> </tr> </thead> <tbody> <tr><td>30.000 MHz</td><td>1.000 GHz</td><td>1.000 MHz</td><td>867.90355 MHz</td><td>-36.42 dBm</td><td>-23.42 dB</td></tr> <tr><td>1.000 GHz</td><td>1.945 GHz</td><td>1.000 MHz</td><td>1.83423 GHz</td><td>-37.50 dBm</td><td>-24.50 dB</td></tr> <tr><td>1.915 GHz</td><td>3.000 GHz</td><td>1.000 MHz</td><td>2.96217 GHz</td><td>-35.26 dBm</td><td>-22.26 dB</td></tr> <tr><td>3.000 GHz</td><td>7.000 GHz</td><td>1.000 MHz</td><td>6.34383 GHz</td><td>-32.35 dBm</td><td>-19.35 dB</td></tr> <tr><td>7.000 GHz</td><td>13.600 GHz</td><td>1.000 MHz</td><td>12.75980 GHz</td><td>-34.59 dBm</td><td>-21.59 dB</td></tr> <tr><td>13.600 GHz</td><td>19.100 GHz</td><td>1.000 MHz</td><td>18.25758 GHz</td><td>-31.97 dBm</td><td>-18.97 dB</td></tr> </tbody> </table>	20 dBc/Hz check		PASS	Line	SPURIOUS LINE ABS	PASS	10 dBm			0 dBm			-10 dBm			-20 dBm			-30 dBm			-40 dBm			-50 dBm			-60 dBm			-70 dBm			Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	1.000 MHz	867.90355 MHz	-36.42 dBm	-23.42 dB	1.000 GHz	1.945 GHz	1.000 MHz	1.83423 GHz	-37.50 dBm	-24.50 dB	1.915 GHz	3.000 GHz	1.000 MHz	2.96217 GHz	-35.26 dBm	-22.26 dB	3.000 GHz	7.000 GHz	1.000 MHz	6.34383 GHz	-32.35 dBm	-19.35 dB	7.000 GHz	13.600 GHz	1.000 MHz	12.75980 GHz	-34.59 dBm	-21.59 dB	13.600 GHz	19.100 GHz	1.000 MHz	18.25758 GHz	-31.97 dBm	-18.97 dB
20 dBc/Hz check		PASS																																																																																																																																																					
Line	SPURIOUS LINE ABS	PASS																																																																																																																																																					
10 dBm																																																																																																																																																							
0 dBm																																																																																																																																																							
-10 dBm																																																																																																																																																							
-20 dBm																																																																																																																																																							
-30 dBm																																																																																																																																																							
-40 dBm																																																																																																																																																							
-50 dBm																																																																																																																																																							
-60 dBm																																																																																																																																																							
-70 dBm																																																																																																																																																							
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																																																																																																																																																		
30.000 MHz	1.000 GHz	1.000 MHz	976.48926 MHz	-36.01 dBm	-23.01 dB																																																																																																																																																		
1.000 GHz	1.945 GHz	1.000 MHz	1.79116 GHz	-37.22 dBm	-24.22 dB																																																																																																																																																		
1.915 GHz	3.000 GHz	1.000 MHz	2.96603 GHz	-35.51 dBm	-22.51 dB																																																																																																																																																		
3.000 GHz	7.000 GHz	1.000 MHz	6.68977 GHz	-32.34 dBm	-19.34 dB																																																																																																																																																		
7.000 GHz	13.600 GHz	1.000 MHz	12.85402 GHz	-35.10 dBm	-22.10 dB																																																																																																																																																		
13.600 GHz	19.100 GHz	1.000 MHz	16.84771 GHz	-31.57 dBm	-18.57 dB																																																																																																																																																		
20 dBc/Hz check		PASS																																																																																																																																																					
Line	SPURIOUS LINE ABS	PASS																																																																																																																																																					
10 dBm																																																																																																																																																							
0 dBm																																																																																																																																																							
-10 dBm																																																																																																																																																							
-20 dBm																																																																																																																																																							
-30 dBm																																																																																																																																																							
-40 dBm																																																																																																																																																							
-50 dBm																																																																																																																																																							
-60 dBm																																																																																																																																																							
-70 dBm																																																																																																																																																							
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																																																																																																																																																		
30.000 MHz	1.000 GHz	1.000 MHz	867.90355 MHz	-36.42 dBm	-23.42 dB																																																																																																																																																		
1.000 GHz	1.945 GHz	1.000 MHz	1.83423 GHz	-37.50 dBm	-24.50 dB																																																																																																																																																		
1.915 GHz	3.000 GHz	1.000 MHz	2.96217 GHz	-35.26 dBm	-22.26 dB																																																																																																																																																		
3.000 GHz	7.000 GHz	1.000 MHz	6.34383 GHz	-32.35 dBm	-19.35 dB																																																																																																																																																		
7.000 GHz	13.600 GHz	1.000 MHz	12.75980 GHz	-34.59 dBm	-21.59 dB																																																																																																																																																		
13.600 GHz	19.100 GHz	1.000 MHz	18.25758 GHz	-31.97 dBm	-18.97 dB																																																																																																																																																		
Date: 13.JUN.2019 23:59:08	Date: 14.JUN.2019 00:22:19																																																																																																																																																						
Highest Channel	Highest Channel																																																																																																																																																						
<p>Spectrum</p> <p>Ref Level 24.90 dBm Offset 14.90 dB Mode Auto Sweep SQL Count 10/10</p> <table border="1"> <thead> <tr> <th colspan="2">20 dBc/Hz check</th> <th>PASS</th> </tr> <tr> <th>Line</th> <th>SPURIOUS LINE ABS</th> <th>PASS</th> </tr> </thead> <tbody> <tr><td>10 dBm</td><td></td><td></td></tr> <tr><td>0 dBm</td><td></td><td></td></tr> <tr><td>-10 dBm</td><td></td><td></td></tr> <tr><td>-20 dBm</td><td></td><td></td></tr> <tr><td>-30 dBm</td><td></td><td></td></tr> <tr><td>-40 dBm</td><td></td><td></td></tr> <tr><td>-50 dBm</td><td></td><td></td></tr> <tr><td>-60 dBm</td><td></td><td></td></tr> <tr><td>-70 dBm</td><td></td><td></td></tr> </tbody> </table> <p>Start 30.0 MHz 48006 pts Stop 19.1 GHz</p> <p>Spurious Emissions</p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs</th> <th>ALimit</th> </tr> </thead> <tbody> <tr><td>30.000 MHz</td><td>1.000 GHz</td><td>1.000 MHz</td><td>929.95252 MHz</td><td>-36.18 dBm</td><td>-23.18 dB</td></tr> <tr><td>1.000 GHz</td><td>1.945 GHz</td><td>1.000 MHz</td><td>1.65054 GHz</td><td>-37.59 dBm</td><td>-24.59 dB</td></tr> <tr><td>1.915 GHz</td><td>3.000 GHz</td><td>1.000 MHz</td><td>2.89484 GHz</td><td>-35.12 dBm</td><td>-22.12 dB</td></tr> <tr><td>3.000 GHz</td><td>7.000 GHz</td><td>1.000 MHz</td><td>6.33193 GHz</td><td>-32.01 dBm</td><td>-19.01 dB</td></tr> <tr><td>7.000 GHz</td><td>13.600 GHz</td><td>1.000 MHz</td><td>11.22205 GHz</td><td>-34.93 dBm</td><td>-21.93 dB</td></tr> <tr><td>13.600 GHz</td><td>19.100 GHz</td><td>1.000 MHz</td><td>15.13302 GHz</td><td>-32.21 dBm</td><td>-19.21 dB</td></tr> </tbody> </table>	20 dBc/Hz check		PASS	Line	SPURIOUS LINE ABS	PASS	10 dBm			0 dBm			-10 dBm			-20 dBm			-30 dBm			-40 dBm			-50 dBm			-60 dBm			-70 dBm			Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	1.000 MHz	929.95252 MHz	-36.18 dBm	-23.18 dB	1.000 GHz	1.945 GHz	1.000 MHz	1.65054 GHz	-37.59 dBm	-24.59 dB	1.915 GHz	3.000 GHz	1.000 MHz	2.89484 GHz	-35.12 dBm	-22.12 dB	3.000 GHz	7.000 GHz	1.000 MHz	6.33193 GHz	-32.01 dBm	-19.01 dB	7.000 GHz	13.600 GHz	1.000 MHz	11.22205 GHz	-34.93 dBm	-21.93 dB	13.600 GHz	19.100 GHz	1.000 MHz	15.13302 GHz	-32.21 dBm	-19.21 dB	<p>Spectrum</p> <p>Ref Level 24.90 dBm Offset 14.90 dB Mode Auto Sweep SQL Count 10/10</p> <table border="1"> <thead> <tr> <th colspan="2">20 dBc/Hz check</th> <th>PASS</th> </tr> <tr> <th>Line</th> <th>SPURIOUS LINE ABS</th> <th>PASS</th> </tr> </thead> <tbody> <tr><td>10 dBm</td><td></td><td></td></tr> <tr><td>0 dBm</td><td></td><td></td></tr> <tr><td>-10 dBm</td><td></td><td></td></tr> <tr><td>-20 dBm</td><td></td><td></td></tr> <tr><td>-30 dBm</td><td></td><td></td></tr> <tr><td>-40 dBm</td><td></td><td></td></tr> <tr><td>-50 dBm</td><td></td><td></td></tr> <tr><td>-60 dBm</td><td></td><td></td></tr> <tr><td>-70 dBm</td><td></td><td></td></tr> </tbody> </table> <p>Start 30.0 MHz 48006 pts Stop 19.1 GHz</p> <p>Spurious Emissions</p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs</th> <th>ALimit</th> </tr> </thead> <tbody> <tr><td>30.000 MHz</td><td>1.000 GHz</td><td>1.000 MHz</td><td>875.17491 MHz</td><td>-36.74 dBm</td><td>-23.74 dB</td></tr> <tr><td>1.000 GHz</td><td>1.945 GHz</td><td>1.000 MHz</td><td>1.53356 GHz</td><td>-37.65 dBm</td><td>-24.65 dB</td></tr> <tr><td>1.915 GHz</td><td>3.000 GHz</td><td>1.000 MHz</td><td>2.97498 GHz</td><td>-36.07 dBm</td><td>-23.07 dB</td></tr> <tr><td>3.000 GHz</td><td>7.000 GHz</td><td>1.000 MHz</td><td>6.95125 GHz</td><td>-32.14 dBm</td><td>-19.14 dB</td></tr> <tr><td>7.000 GHz</td><td>13.600 GHz</td><td>1.000 MHz</td><td>12.85166 GHz</td><td>-34.62 dBm</td><td>-21.62 dB</td></tr> <tr><td>13.600 GHz</td><td>19.100 GHz</td><td>1.000 MHz</td><td>18.29004 GHz</td><td>-31.61 dBm</td><td>-18.61 dB</td></tr> </tbody> </table>	20 dBc/Hz check		PASS	Line	SPURIOUS LINE ABS	PASS	10 dBm			0 dBm			-10 dBm			-20 dBm			-30 dBm			-40 dBm			-50 dBm			-60 dBm			-70 dBm			Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	1.000 MHz	875.17491 MHz	-36.74 dBm	-23.74 dB	1.000 GHz	1.945 GHz	1.000 MHz	1.53356 GHz	-37.65 dBm	-24.65 dB	1.915 GHz	3.000 GHz	1.000 MHz	2.97498 GHz	-36.07 dBm	-23.07 dB	3.000 GHz	7.000 GHz	1.000 MHz	6.95125 GHz	-32.14 dBm	-19.14 dB	7.000 GHz	13.600 GHz	1.000 MHz	12.85166 GHz	-34.62 dBm	-21.62 dB	13.600 GHz	19.100 GHz	1.000 MHz	18.29004 GHz	-31.61 dBm	-18.61 dB
20 dBc/Hz check		PASS																																																																																																																																																					
Line	SPURIOUS LINE ABS	PASS																																																																																																																																																					
10 dBm																																																																																																																																																							
0 dBm																																																																																																																																																							
-10 dBm																																																																																																																																																							
-20 dBm																																																																																																																																																							
-30 dBm																																																																																																																																																							
-40 dBm																																																																																																																																																							
-50 dBm																																																																																																																																																							
-60 dBm																																																																																																																																																							
-70 dBm																																																																																																																																																							
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																																																																																																																																																		
30.000 MHz	1.000 GHz	1.000 MHz	929.95252 MHz	-36.18 dBm	-23.18 dB																																																																																																																																																		
1.000 GHz	1.945 GHz	1.000 MHz	1.65054 GHz	-37.59 dBm	-24.59 dB																																																																																																																																																		
1.915 GHz	3.000 GHz	1.000 MHz	2.89484 GHz	-35.12 dBm	-22.12 dB																																																																																																																																																		
3.000 GHz	7.000 GHz	1.000 MHz	6.33193 GHz	-32.01 dBm	-19.01 dB																																																																																																																																																		
7.000 GHz	13.600 GHz	1.000 MHz	11.22205 GHz	-34.93 dBm	-21.93 dB																																																																																																																																																		
13.600 GHz	19.100 GHz	1.000 MHz	15.13302 GHz	-32.21 dBm	-19.21 dB																																																																																																																																																		
20 dBc/Hz check		PASS																																																																																																																																																					
Line	SPURIOUS LINE ABS	PASS																																																																																																																																																					
10 dBm																																																																																																																																																							
0 dBm																																																																																																																																																							
-10 dBm																																																																																																																																																							
-20 dBm																																																																																																																																																							
-30 dBm																																																																																																																																																							
-40 dBm																																																																																																																																																							
-50 dBm																																																																																																																																																							
-60 dBm																																																																																																																																																							
-70 dBm																																																																																																																																																							
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																																																																																																																																																		
30.000 MHz	1.000 GHz	1.000 MHz	875.17491 MHz	-36.74 dBm	-23.74 dB																																																																																																																																																		
1.000 GHz	1.945 GHz	1.000 MHz	1.53356 GHz	-37.65 dBm	-24.65 dB																																																																																																																																																		
1.915 GHz	3.000 GHz	1.000 MHz	2.97498 GHz	-36.07 dBm	-23.07 dB																																																																																																																																																		
3.000 GHz	7.000 GHz	1.000 MHz	6.95125 GHz	-32.14 dBm	-19.14 dB																																																																																																																																																		
7.000 GHz	13.600 GHz	1.000 MHz	12.85166 GHz	-34.62 dBm	-21.62 dB																																																																																																																																																		
13.600 GHz	19.100 GHz	1.000 MHz	18.29004 GHz	-31.61 dBm	-18.61 dB																																																																																																																																																		
Date: 14.JUN.2019 00:22:05	Date: 14.JUN.2019 00:23:37																																																																																																																																																						







Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0048	0.0060	PASS
40	Normal Voltage	0.0526	0.0167	
30	Normal Voltage	0.0120	0.0538	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0574	0.0335	
0	Normal Voltage	0.0191	0.0538	
-10	Normal Voltage	0.0084	0.0466	
-20	Normal Voltage	0.0143	0.0167	
-30	Normal Voltage	0.0108	0.0478	
20	Maximum Voltage	0.0466	0.0514	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0395	0.0395	

Note: Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V



Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0053	0.0005	PASS
40	Normal Voltage	0.0016	0.0016	
30	Normal Voltage	0.0027	0.0021	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0170	0.0255	
0	Normal Voltage	0.0074	0.0186	
-10	Normal Voltage	0.0160	0.0011	
-20	Normal Voltage	0.0218	0.0037	
-30	Normal Voltage	0.0005	0.0213	
20	Maximum Voltage	0.0053	0.0160	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0133	0.0011	

Note:

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0060	PASS
40	Normal Voltage	0.0395	
30	Normal Voltage	0.0442	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0072	
0	Normal Voltage	0.0323	
-10	Normal Voltage	0.0048	
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0311	
20	Maximum Voltage	0.0442	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note: Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0186	PASS
40	Normal Voltage	0.0128	
30	Normal Voltage	0.0165	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0117	
0	Normal Voltage	0.0154	
-10	Normal Voltage	0.0239	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0117	
20	Maximum Voltage	0.0165	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0069	PASS
40	Normal Voltage	0.0156	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0058	
-10	Normal Voltage	0.0150	
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0092	
20	Maximum Voltage	0.0092	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0167	

Note:

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

GSM850 (GSM)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-59.22	-13	-46.22	-66.19	1.58	10.70	H
	2472	-44.58	-13	-31.58	-52.83	2.102	12.50	H
	3294	-63.96	-13	-50.96	-72.85	2.856	13.90	H
	4122	-56.82	-13	-43.82	-66.78	3.46	15.57	H
	1648	-53.77	-13	-40.77	-60.74	1.58	10.70	V
	2472	-47.44	-13	-34.44	-55.69	2.10	12.50	V
	3294	-60.30	-13	-47.30	-69.19	2.86	13.90	V
	4122	-59.26	-13	-46.26	-69.22	3.46	15.57	V
Middle	1672	-55.30	-13	-42.30	-62.27	1.58	10.70	H
	2510	-40.24	-13	-27.24	-48.49	2.102	12.50	H
	3348	-64.43	-13	-51.43	-73.32	2.856	13.90	H
	4182	-53.32	-13	-40.32	-61.78	2.689	13.30	H
	1672	-53.02	-13	-40.02	-59.99	1.58	10.70	V
	2510	-41.61	-13	-28.61	-49.86	2.10	12.50	V
	3348	-61.13	-13	-48.13	-70.02	2.86	13.90	V
	4182	-58.26	-13	-45.26	-66.72	2.69	13.30	V
Highest	1698	-55.63	-13	-42.63	-62.60	1.58	10.70	H
	2546	-43.70	-13	-30.70	-51.95	2.102	12.50	H
	3396	-61.18	-13	-48.18	-70.07	2.856	13.90	H
	4242	-54.62	-13	-41.62	-64.58	3.46	15.57	H
	1698	-52.89	-13	-39.89	-59.86	1.58	10.70	V
	2546	-48.65	-13	-35.65	-56.90	2.10	12.50	V
	3396	-59.08	-13	-46.08	-67.97	2.86	13.90	V
	4242	-57.28	-13	-44.28	-67.24	3.46	15.57	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



GSM850 (EDGE class 8)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-69.37	-13	-56.37	-76.34	1.58	10.70	H
	2472	-65.09	-13	-52.09	-73.34	2.102	12.50	H
	3294	-63.98	-13	-50.98	-72.87	2.856	13.90	H
	1648	-69.36	-13	-56.36	-76.33	1.58	10.70	V
	2472	-65.10	-13	-52.10	-73.35	2.10	12.50	V
	3294	-63.53	-13	-50.53	-72.42	2.86	13.90	V
Middle	1672	-68.79	-13	-55.79	-75.76	1.58	10.70	H
	2510	-64.45	-13	-51.45	-72.70	2.102	12.50	H
	3348	-64.27	-13	-51.27	-73.16	2.856	13.90	H
	1672	-68.68	-13	-55.68	-75.65	1.58	10.70	V
	2510	-64.68	-13	-51.68	-72.93	2.10	12.50	V
	3348	-64.02	-13	-51.02	-72.91	2.86	13.90	V
Highest	1698	-69.92	-13	-56.92	-76.89	1.58	10.70	H
	2546	-65.46	-13	-52.46	-73.71	2.102	12.50	H
	3396	-64.28	-13	-51.28	-73.17	2.856	13.90	H
	1698	-70.23	-13	-57.23	-77.20	1.58	10.70	V
	2546	-65.51	-13	-52.51	-73.76	2.10	12.50	V
	3396	-64.05	-13	-51.05	-72.94	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



GSM1900 (GSM)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3699	-47.57	-13	-34.57	-59.83	2.641	14.90	H
	5550	-49.87	-13	-36.87	-61.73	2.94	14.80	H
	7404	-51.80	-13	-38.80	-61.57	3.39	13.16	H
	3699	-45.96	-13	-32.96	-58.22	2.64	14.90	V
	5550	-52.92	-13	-39.92	-64.78	2.94	14.80	V
	7404	-51.40	-13	-38.40	-61.17	3.39	13.16	V
Middle	3759	-52.60	-13	-39.60	-64.86	2.641	14.90	H
	5640	-48.56	-13	-35.56	-60.42	2.94	14.80	H
	7524	-52.01	-13	-39.01	-61.78	3.39	13.16	H
	3759	-57.08	-13	-44.08	-69.34	2.64	14.90	V
	5640	-55.09	-13	-42.09	-66.95	2.94	14.80	V
	7524	-51.39	-13	-38.39	-61.16	3.39	13.16	V
Highest	3819	-47.66	-13	-34.66	-59.92	2.641	14.90	H
	5730	-54.16	-13	-41.16	-66.02	2.94	14.80	H
	7644	-51.84	-13	-38.84	-61.61	3.39	13.16	H
	3819	-50.04	-13	-37.04	-62.30	2.64	14.90	V
	5730	-53.61	-13	-40.61	-65.47	2.94	14.80	V
	7644	-51.64	-13	-38.64	-61.41	3.39	13.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



GSM1900 (EDGE class 8)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3699	-59.85	-13	-46.85	-72.11	2.641	14.90	H
	5550	-57.72	-13	-44.72	-69.58	2.94	14.80	H
	7404	-51.61	-13	-38.61	-61.38	3.39	13.16	H
	3699	-59.54	-13	-46.54	-71.80	2.64	14.90	V
	5550	-57.52	-13	-44.52	-69.38	2.94	14.80	V
	7404	-51.35	-13	-38.35	-61.12	3.39	13.16	V
Middle	3759	-58.86	-13	-45.86	-71.12	2.641	14.90	H
	5640	-56.74	-13	-43.74	-68.60	2.94	14.80	H
	7524	-51.63	-13	-38.63	-61.40	3.39	13.16	H
	3759	-58.79	-13	-45.79	-71.05	2.64	14.90	V
	5640	-56.76	-13	-43.76	-68.62	2.94	14.80	V
	7524	-50.67	-13	-37.67	-60.44	3.39	13.16	V
Highest	3819	-60.09	-13	-47.09	-72.35	2.641	14.90	H
	5730	-57.72	-13	-44.72	-69.58	2.94	14.80	H
	7644	-51.87	-13	-38.87	-61.64	3.39	13.16	H
	3819	-59.88	-13	-46.88	-72.14	2.64	14.90	V
	5727	-57.34	-13	-44.34	-69.20	2.94	14.80	V
	7644	-51.32	-13	-38.32	-61.09	3.39	13.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



WCDMA Band V(RMC 12.2Kbps)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1652	-69.19	-13	-56.19	-76.16	1.58	10.70	H
	2480	-63.41	-13	-50.41	-71.66	2.102	12.50	H
	3306	-64.05	-13	-51.05	-72.94	2.856	13.90	H
	1652	-69.10	-13	-56.10	-76.07	1.58	10.70	V
	2480	-64.12	-13	-51.12	-72.37	2.10	12.50	V
	3306	-64.08	-13	-51.08	-72.97	2.86	13.90	V
Middle	1672	-68.78	-13	-55.78	-75.75	1.58	10.70	H
	2510	-62.41	-13	-49.41	-70.66	2.102	12.50	H
	3348	-63.99	-13	-50.99	-72.88	2.856	13.90	H
	1672	-69.09	-13	-56.09	-76.06	1.58	10.70	V
	2510	-60.76	-13	-47.76	-69.01	2.10	12.50	V
	3348	-64.34	-13	-51.34	-73.23	2.86	13.90	V
Highest	1694	-68.85	-13	-55.85	-75.82	1.58	10.70	H
	2540	-65.34	-13	-52.34	-73.59	2.102	12.50	H
	3384	-64.26	-13	-51.26	-73.15	2.856	13.90	H
	1694	-69.16	-13	-56.16	-76.13	1.58	10.70	V
	2540	-64.93	-13	-51.93	-73.18	2.10	12.50	V
	3384	-63.97	-13	-50.97	-72.86	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



WCDMA Band II(RMC 12.2Kbps)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3705	-60.26	-13	-47.26	-72.52	2.641	14.90	H
	5556	-58.69	-13	-45.69	-70.55	2.94	14.80	H
	7404	-51.80	-13	-38.80	-61.57	3.39	13.16	H
	3705	-60.15	-13	-47.15	-72.41	2.64	14.90	V
	5556	-58.48	-13	-45.48	-70.34	2.94	14.80	V
	7404	-51.60	-13	-38.60	-61.37	3.39	13.16	V
Middle	3759	-59.66	-13	-46.66	-71.92	2.641	14.90	H
	5640	-57.61	-13	-44.61	-69.47	2.94	14.80	H
	7524	-51.96	-13	-38.96	-61.73	3.39	13.16	H
	3759	-59.32	-13	-46.32	-71.58	2.64	14.90	V
	5640	-57.37	-13	-44.37	-69.23	2.94	14.80	V
	7524	-51.77	-13	-38.77	-61.54	3.39	13.16	V
Highest	3816	-60.17	-13	-47.17	-72.43	2.641	14.90	H
	5724	-57.82	-13	-44.82	-69.68	2.94	14.80	H
	7632	-52.22	-13	-39.22	-61.99	3.39	13.16	H
	3816	-59.73	-13	-46.73	-71.99	2.64	14.90	V
	5724	-57.09	-13	-44.09	-68.95	2.94	14.80	V
	7632	-51.78	-13	-38.78	-61.55	3.39	13.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



WCDMA Band IV(RMC 12.2Kbps)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3426	-58.42	-13	-45.42	-69.16	2.604	13.34	H
	5136	-56.48	-13	-43.48	-66.99	3.011	13.52	H
	6852	-54.69	-13	-41.69	-64.89	3.271	13.47	H
	3426	-60.49	-13	-47.49	-71.23	2.604	13.34	V
	5136	-56.79	-13	-43.79	-67.30	3.011	13.52	V
	6852	-54.34	-13	-41.34	-64.54	3.271	13.47	V
Middle	3465	-61.83	-13	-48.83	-72.57	2.604	13.34	H
	5199	-53.67	-13	-40.67	-64.18	3.011	13.52	H
	6936	-53.71	-13	-40.71	-63.91	3.271	13.47	H
	3465	-62.29	-13	-49.29	-73.03	2.604	13.34	V
	5199	-56.70	-13	-43.70	-67.21	3.011	13.52	V
	6936	-53.85	-13	-40.85	-64.05	3.271	13.47	V
Highest	3504	-56.51	-13	-43.51	-67.25	2.604	13.34	H
	5259	-53.32	-13	-40.32	-63.83	3.011	13.52	H
	7008	-52.60	-13	-39.60	-62.80	3.271	13.47	H
	3504	-60.10	-13	-47.10	-70.84	2.604	13.34	V
	5259	-56.98	-13	-43.98	-67.49	3.011	13.52	V
	7008	-52.27	-13	-39.27	-62.47	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.