



FCC ID: P4Q-N635A
Report No.: T191105W01-RP6

IC: 2420C-N635A

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**FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E
&
INDUSTRY CANADA RSS-132 & RSS-133**

TEST REPORT

For

TEST REPORT

For

Chiron pro

Model No.: N635

Trade Name: Mitac, Mio, Navman, Magellan

Issued to

FCC:	Mitac Digital Technology Corporation No.200, Wen Hwa 2nd Rd.,Kuei Shan Dist. Taoyuan, 33383 Taiwan
IC:	MiTAC Digital Technology Corporation No.200, Wenhua 2nd Rd., Guishan Dist. Taoyuan City 333 Taiwan

Issued by

**Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City 24891, Taiwan. (R.O.C.)
Issued Date: January 17, 2020**

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	January 17, 2020	Initial Issue	ALL	Allison Chen



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1. TEST RESULT CERTIFICATION

FCC Applicant: Mitac Digital Technology Corporation
No.200, Wen Hwa 2nd Rd.,Kuei Shan Dist. Taoyuan, 33383
Taiwan

IC Applicant: MiTAC Digital Technology Corporation
No.200, Wenhua 2nd Rd., Guishan Dist. Taoyuan City 333
Taiwan

Manufacturer: MITAC COMPUTER (KUNSHAN) CO., LTD.
No. 269, 2nd Avenue, District A, Comprehensive Free Trade
Zone, Kunshan, Jiangsu, P.R. China

Equipment Under Test: Chiron pro

Trade Name: Mitac, Mio, Navman, Magellan

Model No.: N635

Date of Test: December 6 ~ 10, 2019



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APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 22 Subpart H & Part 24 Subpart E & IC RSS-132 Issue 3: January, 2013 and IC RSS-133 Issue 6: January, 2018	No non-compliance noted
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 Subpart H and PART 24 Subpart E

The test results of this report relate only to the tested sample identified in this report.

Approved by:

Tested by:

Kevin Tsai
Deputy Manager
Compliance Certification Services Inc.

Dally Hong
Engineer
Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product	Chiron pro
Model No.	N635
Model Discrepancy	Difference of the those trade names (list on this report) are just for marketing purpose only.
Trade	Mitac, Mio, Navman, Magellan
Received Date	November 5, 2019
Power Supply	1. Power from Rechargeable Li-ion Polymer Battery. Rating: 3.7VDC, 4000mAh, 14.8Wh 2. Power from Adapter. I/P: 100-240VAC, 50/60Hz, 0.5A O/P: 5.0VDC, 2A
Frequency Range	WCDMA / HSDPA / HSUPA Band II: 1852.4 ~ 1907.6 MHz WCDMA / HSDPA / HSUPA Band V: 826.4 ~ 846.6MHz
Transmit Power (ERP & EIRP Power)	WCDMA Band II: 23.01 dBm WCDMA Band V: 23.96 dBm
Antenna Gain	Antenna type: Integral Band II: 2.92 dBi Band V: 1.84 dBi

Remark:

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
2. For test mode WCDMA, HSUPA and HSDPA were pretest. The worst case was WCDMA in this test report

Emission Designator					
System	Band	Frequency Range(MHz)	Emission Designator (99% OBW)	Maximum ERP (W)	Maximum EIRP (W)
WCDMA 12.2K RMC	II	1852.4MHz ~1907.6MHz	4M15F9W	N/A	0.2000
	V	826.4MHz ~ 846.6MHz	4M15F9W	0.2489	N/A



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3. TEST METHODOLOGY

Both conducted and radiated testing were performed according to FCC CFR 47, Part 2, Part 22 Subpart H and Part 24 Subpart E

The tests documented in this report were performed in accordance with IC RSS-132, SPSR503, RSS-133, SPSR510 and ANSI C63.26: 2015.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.



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3.2 DESCRIPTION OF TEST MODES

The EUT had been tested under operating condition.

The EUT be set in maximum power transmission via call box during testing.

3.2.1 The worst mode of measurement

Radiated Emission Measurement	
Test Condition	Band edge, Emission for Unwanted and Fundamental
Power supply Mode	Mode1: EUT Power by Battery (DC 3V) Mode2: EUT Power by Adapter + Type C USB Mode3: EUT Power by Type C USB+ CarCharge (DC12V) Mode4: EUT Power by Cradle(N564)+Micro USB+Adapter Mode5: EUT Power by Cradle(N564)+Micro USB+ CarCharge (DC12V) Mode6: EUT Power by Cradle(N564) + Cable(DC 12V) Mode7: EUT Power by Cradle(N564_TN)+Micro USB+Adapter Mode8: EUT Power by Cradle(N564_TN)+Micro USB+ CarCharge (DC12V) Mode9: EUT Power by Cradle(N564_TN) + Cable(DC 12V) Mode10: EUT Power by Cradle(N635_V)+Micro USB+Adapter Mode11: EUT Power by Cradle(N635_V)+Micro USB+ CarCharge (DC12V) Mode12: EUT Power by Cradle(N635_V) + Cable(DC 12V) Mode13: EUT Power by Cradle(N635_VL)+Micro USB+Adapter Mode14: EUT Power by Cradle(N635_VL)+Micro USB+ CarCharge (DC12V) Mode15: EUT Power by Cradle(N635_VL) + Cable(DC 12V) Mode16: EUT Power by Cradle(N635_VHG) + Cable(DC 12V)
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4
Worst Position	☐ Placed in fixed position. ☐ Placed in fixed position at X-Plane (E2-Plane) ☐ Placed in fixed position at Y-Plane (E1-Plane) ☒ Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode1: EUT Power by Battery (DC 3V) Mode2: EUT Power by Adapter + Type C USB Mode3: EUT Power by Type C USB+ CarCharge (DC12V) Mode4: EUT Power by Cradle(N564)+Micro USB+Adapter Mode5: EUT Power by Cradle(N564)+Micro USB+ CarCharge (DC12V) Mode6: EUT Power by Cradle(N564) + Cable(DC 12V) Mode7: EUT Power by Cradle(N564_TN)+Micro USB+Adapter Mode8: EUT Power by Cradle(N564_TN)+Micro USB+ CarCharge (DC12V) Mode9: EUT Power by Cradle(N564_TN) + Cable(DC 12V) Mode10: EUT Power by Cradle(N635_V)+Micro USB+Adapter Mode11: EUT Power by Cradle(N635_V)+Micro USB+ CarCharge (DC12V) Mode12: EUT Power by Cradle(N635_V) + Cable(DC 12V) Mode13: EUT Power by Cradle(N635_VL)+Micro USB+Adapter Mode14: EUT Power by Cradle(N635_VL)+Micro USB+ CarCharge (DC12V) Mode15: EUT Power by Cradle(N635_VL) + Cable(DC 12V) Mode16: EUT Power by Cradle(N635_VHG) + Cable(DC 12V)
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Z-Plane) were recorded in this report



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4. TEST SUMMERY

FCC Standard Section	IC Standard Secction	Report Section	Test Item	Result
-	-	2	Antenna Requirement	Pass
22.913(a), 24.232(c)	RSS-132, section 5.4 RSS-133, section 6.4	8.1	ERP and EIRP Measurement	Pass
2.1049	RSS-GEN 6.7	8.2	Occupied Bandwidth Measurement	N/A
22.917(a), 24.238(a)	RSS-132 section 5.5 RSS-133 section 6.5	8.3	Conducted Band Edge	N/A
22.913(d), 24.232(d)	RSS-132, section 5.4 RSS-133, section 6.4	8.4	Peak to Average Ratio	N/A
22.917(a), 24.238(a)	RSS-132 section 5.5 RSS-133 section 6.5	8.5	Conducted Spurious Emission	N/A
22.917(a), 24.238(a)	RSS-132 section 5.5 RSS-133 section 6.5	8.6	Spurious Radiation Measurement	Pass
2.1055, 22.355, 24.235	RSS-132 section 5.3 RSS-133 section 6.3	8.7	Frequency Stability v.s. temperature measurement	N/A

5. INSTRUMENT CALIBRATION

5.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

5.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

RF Conducted Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Coaxial Cable	Woken	WC12	CC001	06/28/2019	06/27/2020
Wideband Radio Communication Tester	R&S	CMW 500	116875	07/29/2019	07/28/2020
Power Divider	Solvang Technology	STI08-0015	008	08/06/2019	08/05/2020
Signal Analyzer	R&S	FSV 40	101073	09/25/2019	09/24/2020
Software	N/A				

3M 966 Chamber Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/26/2019	07/25/2020
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Coaxial Cable	EMCI	EMC105	190914+25111	09/20/2019	09/19/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	10/04/2019	10/03/2020
Loop Ant	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
Wideband Radio Communication Tester	R&S	CMW 500	116875	07/29/2019	07/28/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 6.11-20180413				

5.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

6. FACILITIES AND ACCREDITATIONS

6.1 FACILITIES

- ☐ No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029
- ☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)
Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

6.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."



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7. SETUP OF EQUIPMENT UNDER TEST

7.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix A for the actual connections between EUT and support equipment.

7.2 SUPPORT EQUIPMENT

No	Equipment	Brand	Model	Series No.	FCC ID
	N/A				

Remark:

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

8. FCC PART 22 & 24 REQUIREMENTS & INDUSTRY CANADA RSS-132 & RSS-133

8.1 ERP & EIRP MEASUREMENT

LIMIT

According to FCC 22.913(a): The Effective Radiated Power (ERP) of mobile transmitters must not exceed 7 Watts.

According to FCC 24.232(b): The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

RSS-132, section 5.4

The transmitter output power shall be measured in terms of average power. The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment shall not exceed 11.5 watts. Refer to SRSP-503 for base station e.i.r.p. limits.

RSS-133, section 6.4

The equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed the limits given in SRSP-510. Moreover, base station transmitters operating in the band 1930-1995 MHz shall not have output power exceeding 100 watts.

TEST PROCEDURES

CONDUCTED POWER MEASUREMENT:

1. The transmitter output power was connected to the call box.
2. Set EUT at maximum output power via call box.
3. Set Call box at lowest, middle and highest channels for each band and modulation.

TEST RESULTS

No non-compliance noted.

WCDMA Band II

Band		WCDMA II			EIRP Power		
TX Channel		9262	9400	9538	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6	1852.4	1880	1907.6
3GPP Rel 99	RMC 12.2Kbps	22.24	22.08	22.06	23.01	22.85	22.83
3GPP Rel 5	HSDPA Subtest-1	21.24	21.21	20.81	22.01	21.98	21.58
	HSDPA Subtest-2	21.21	21.21	20.76	21.98	21.98	21.53
	HSDPA Subtest-3	21.23	21.18	20.74	22.00	21.95	21.51
	HSDPA Subtest-4	21.23	21.24	20.74	22.00	22.01	21.51
3GPP Rel 6	HSUPA Subtest-1	22.10	21.80	21.80	22.87	22.57	22.57
	HSUPA Subtest-2	19.90	19.90	19.80	20.67	20.67	20.57
	HSUPA Subtest-3	19.70	19.80	19.80	20.47	20.57	20.57
	HSUPA Subtest-4	20.90	20.70	20.70	21.67	21.47	21.47
	HSUPA Subtest-5	21.50	21.50	21.40	22.27	22.27	22.17

WCDMA Band V

Band		WCDMA V			ERP Power		
TX Channel		4132	4183	4233	4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6	826.4	836.6	846.6
3GPP Rel 99	RMC 12.2Kbps	23.88	23.96	23.94	23.57	23.65	23.63
3GPP Rel 5	HSDPA Subtest-1	21.84	22.11	22.32	21.53	21.80	22.01
	HSDPA Subtest-2	21.74	22.13	22.25	21.43	21.82	21.94
	HSDPA Subtest-3	21.78	22.18	22.26	21.47	21.87	21.95
	HSDPA Subtest-4	21.82	22.16	22.32	21.51	21.85	22.01
3GPP Rel 6	HSUPA Subtest-1	22.40	22.50	22.40	22.09	22.19	22.09
	HSUPA Subtest-2	21.20	21.20	21.30	20.89	20.89	20.99
	HSUPA Subtest-3	21.30	21.50	21.40	20.99	21.19	21.09
	HSUPA Subtest-4	22.20	22.20	22.20	21.89	21.89	21.89
	HSUPA Subtest-5	22.40	22.50	22.40	22.09	22.19	22.09

8.2 OCCUPIED BANDWIDTH MEASUREMENT

Limits

For Reporting purpose only.

TEST PROCEDURES

KDB 971168 D01

1. The occupied bandwidth was measured with the spectrum analyzer at the lowest, middle and highest channels in each band and different modulation. The 99% and -26dB bandwidth was measured and recorded.
2. RBW = 1-5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max. hold

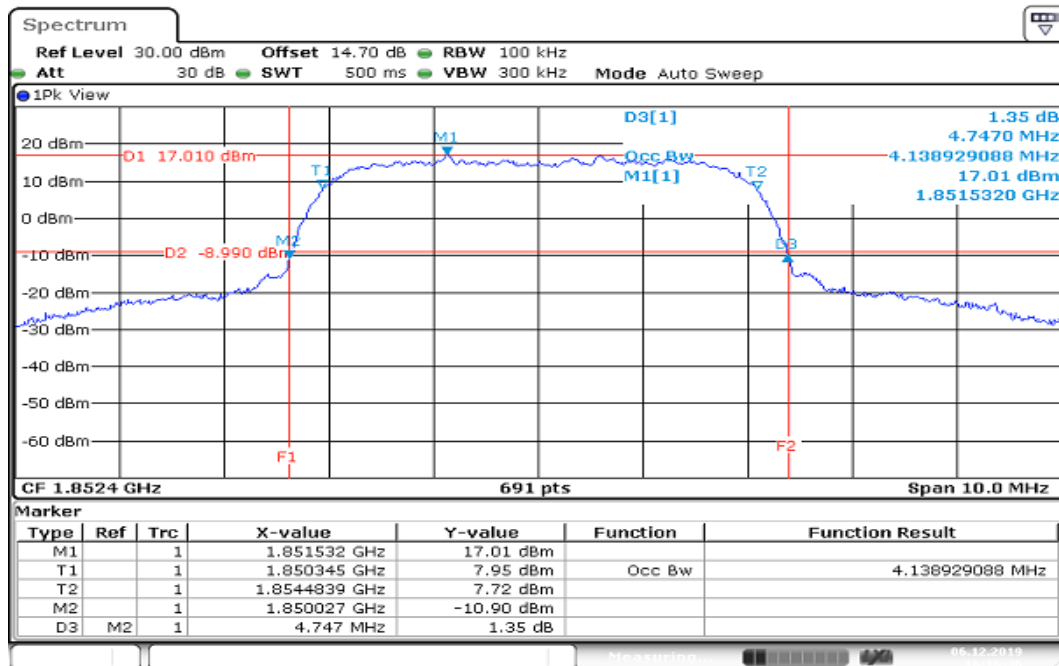
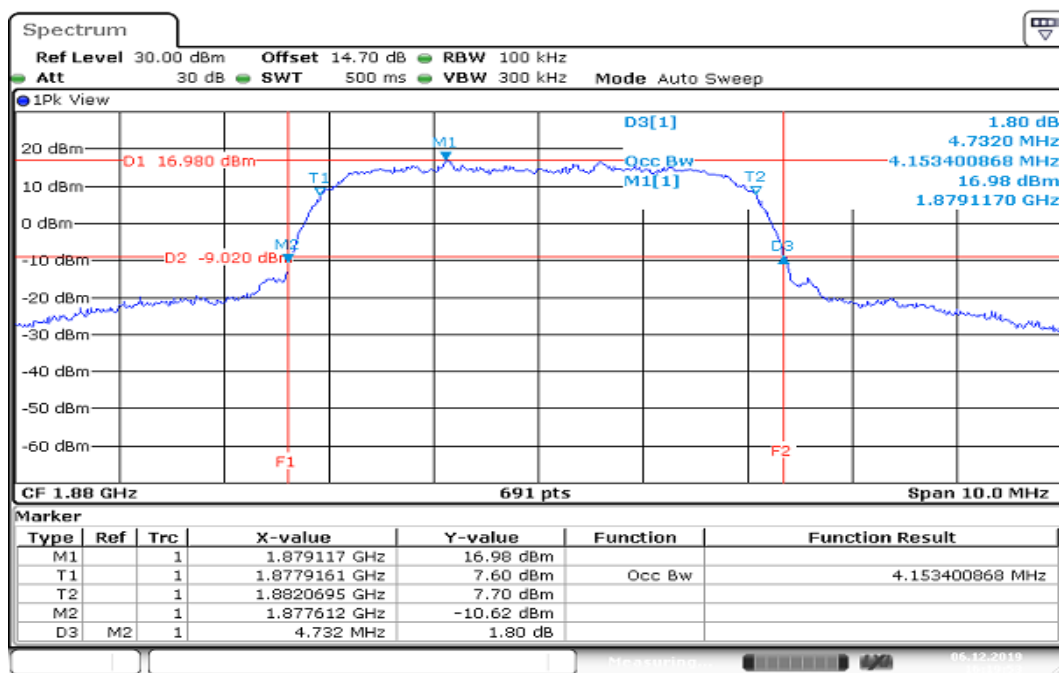
TEST RESULTS

No non-compliance noted

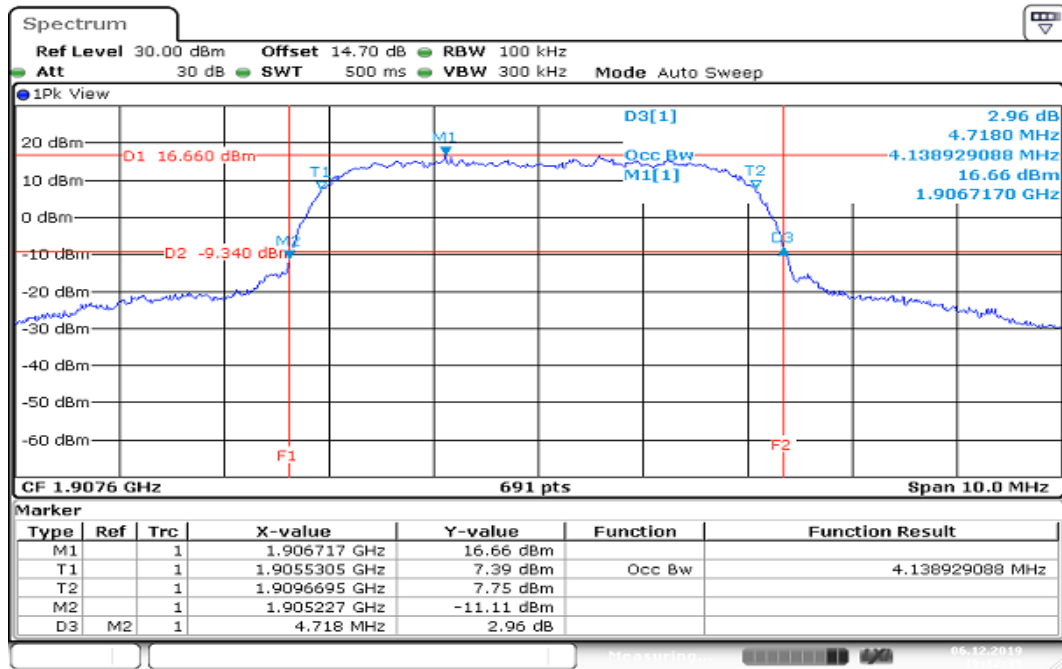
Test Data

Test Mode	CH	Frequency (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)
WCDMA 12.2k RMC (Band II)	Lowest	1852.4	4.1389	4.747
	Middle	1880.0	4.1534	4.732
	Highest	1907.6	4.1389	4.718
WCDMA 12.2k RMC (Band V)	Lowest	826.4	4.1244	4.718
	Middle	836.4	4.1244	4.718
	Highest	846.6	4.1534	4.732

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Test Plot**WCDMA 12.2k RMC (Band II)****Low CH****Mid CH**

High CH

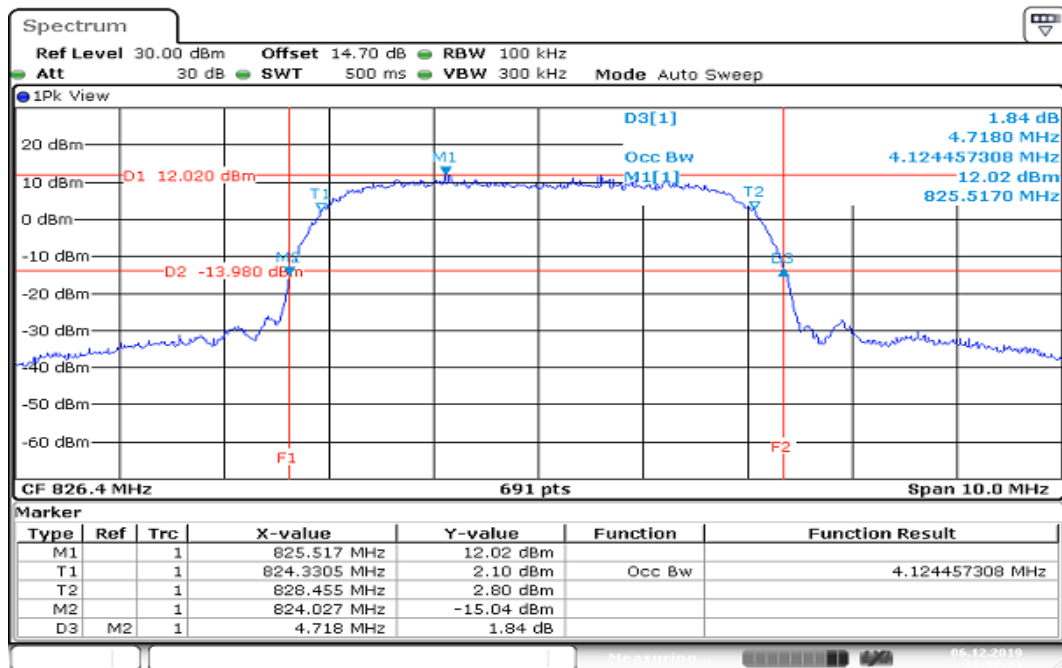


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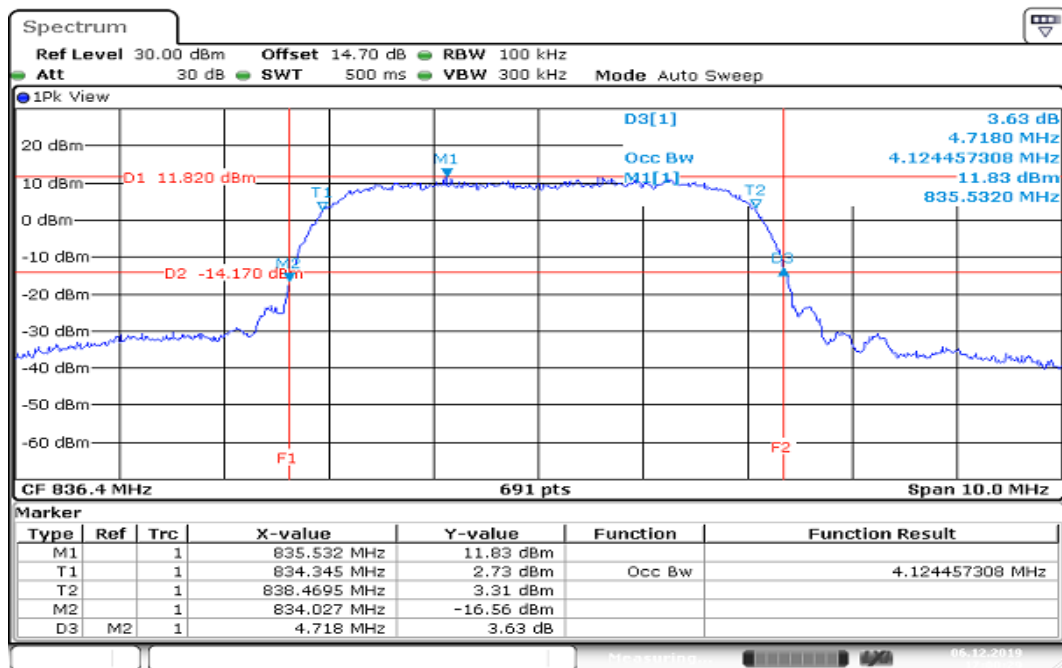
Report No.: T191105W01-RP6

WCDMA 12.2k RMC (Band V)

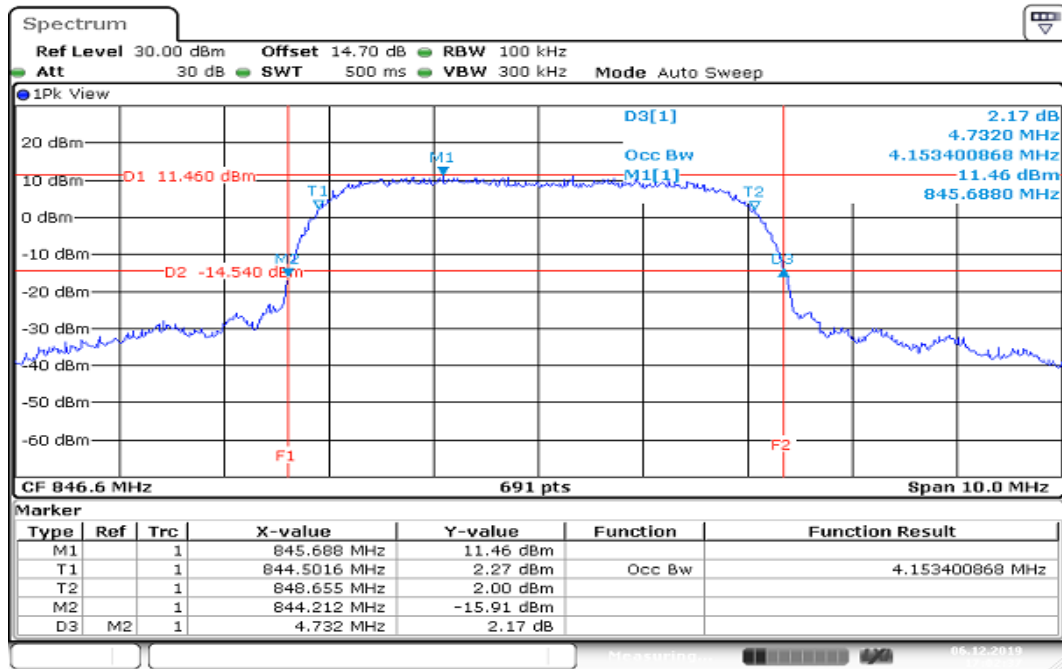
Low CH



Mid CH



High CH



Date: 6.DEC.2019 17:02:37

8.3 CONDUCTED BANDEDG MEASUREMENT

Limit

FCC §22.917(a), Band V

For operations in the 824-849 MHz band, out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §24.238(a), Band II

For operations in the 1850-1910 and 1930-1950 MHz band, out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

RSS-132 section 5.5 and RSS-133 section 6.5

In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

TEST PROCEDURE

According to KDB 971168 D01,

1. The EUT was connected to spectrum analyzer and call box.
2. The RF output of EUT was connected to the spectrum analyzer.
3. Start and stop frequency were set such that the band edge would be placed in the center of the plot
4. Span was set large enough so as to capture all out of band emissions near the band edge
5. Set the spectrum analyzer, RBW=100kHz, VBW=300kHz.
6. Record the Band edge emission.

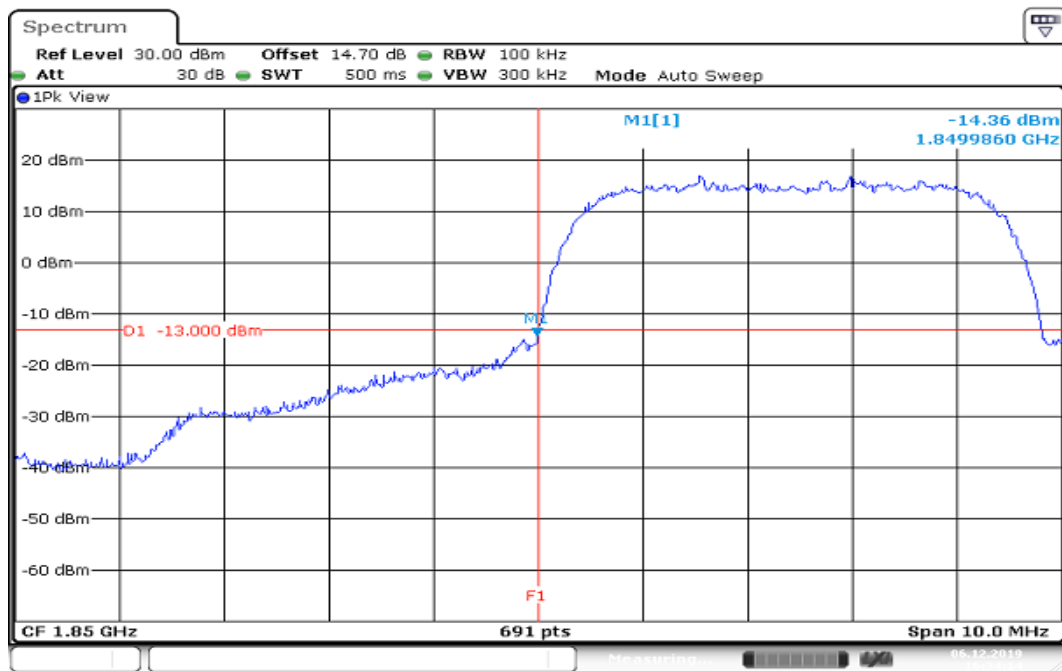
TEST RESULTS

No non-compliance noted.

Test Data

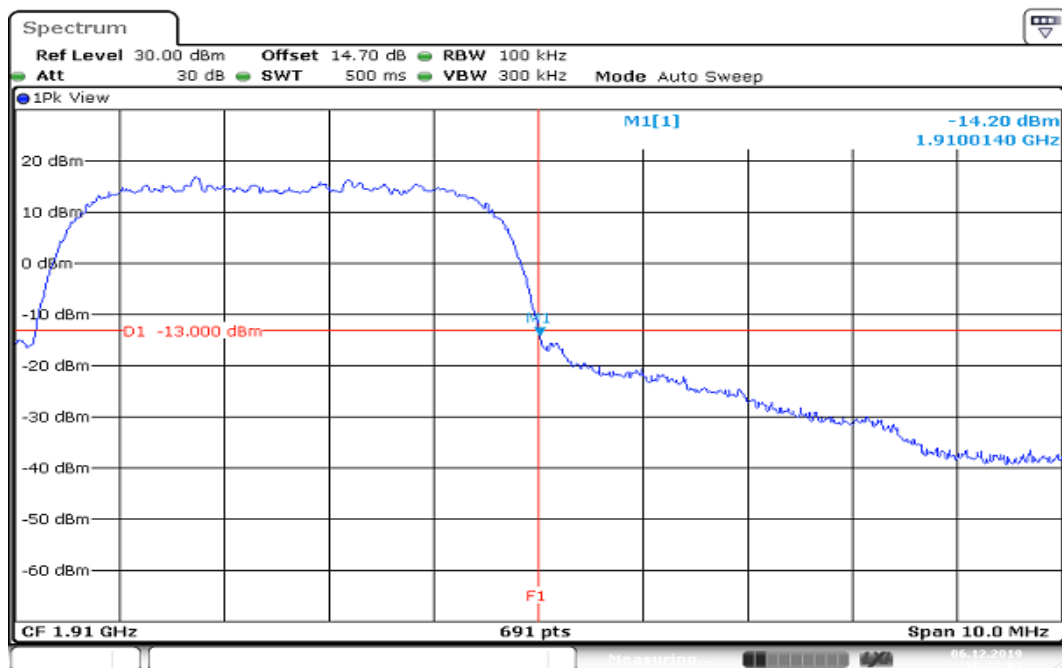
WCDMA 12.2k RMC (Band II)

Low CH

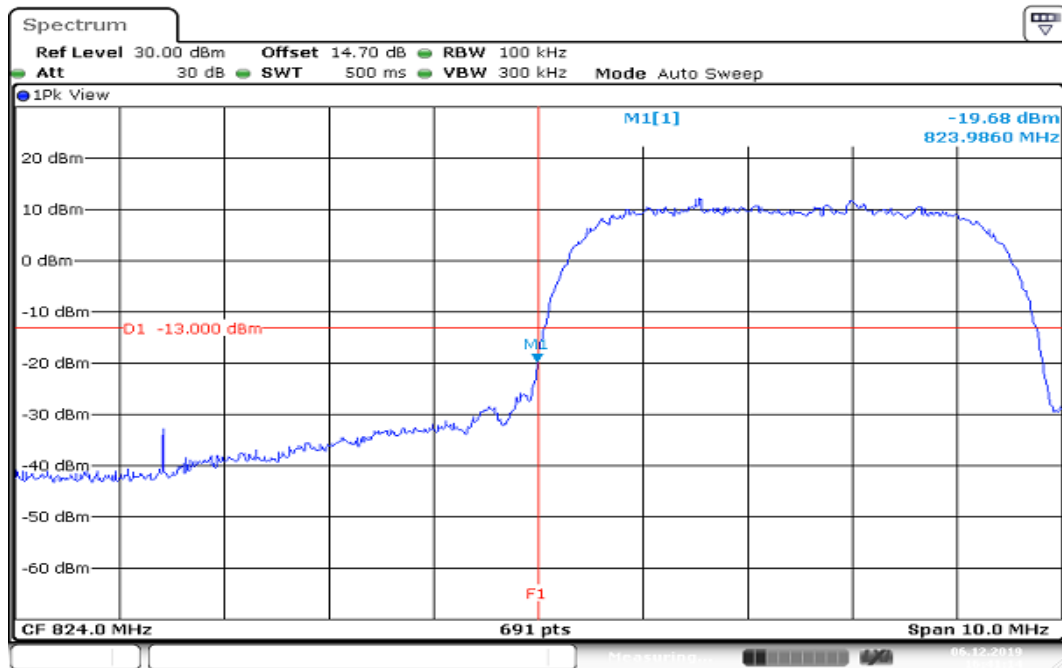


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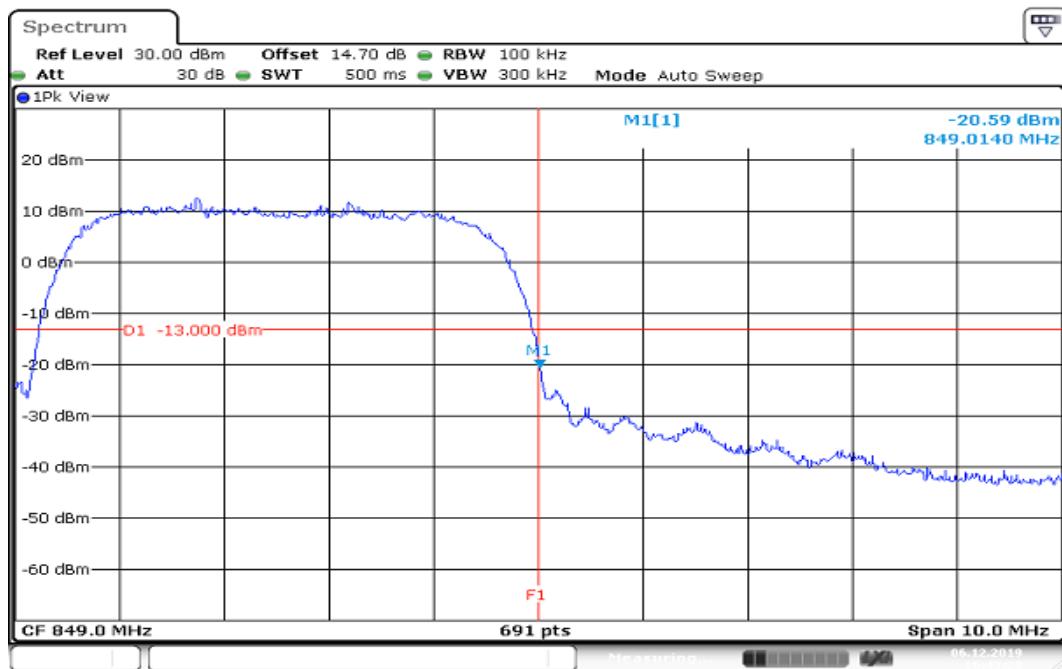
High CH



Date: 6.DEC.2019 16:22:04

WCDMA 12.2k RMC (Band V)**Low CH**

Date: 6.DEC.2019 16:41:14

High CH

Date: 6.DEC.2019 16:43:28

8.4 PEAK TO AVERAGE RATIO

Limit

FCC §22.913(d), Band 5

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

FCC §24.232(d), Band 2

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

RSS-132 section 5.4 and RSS-133 section 6.4

The peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

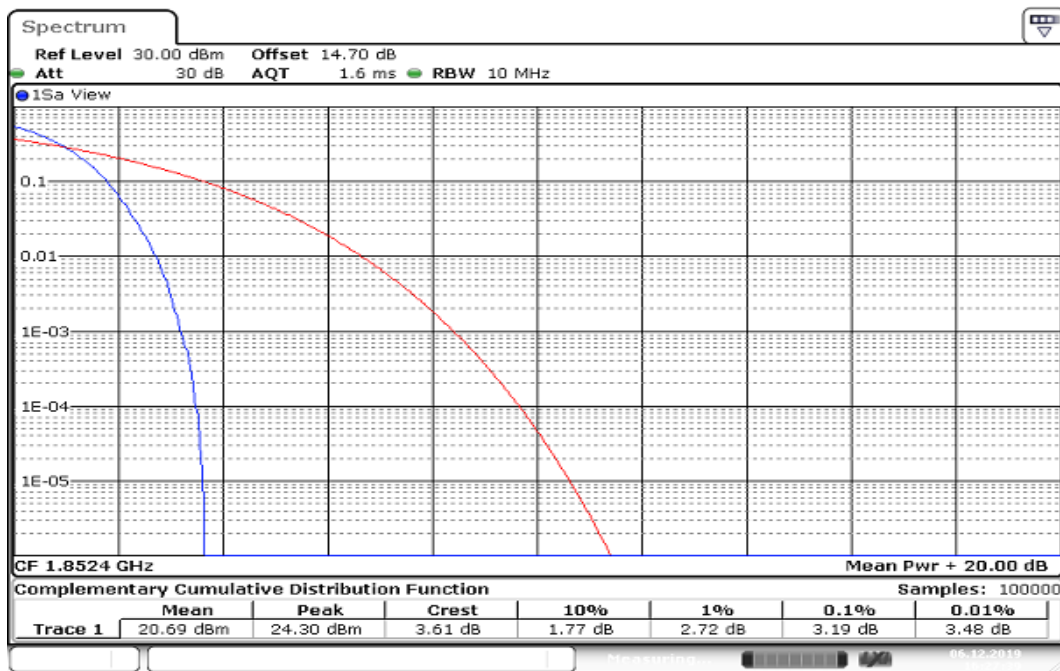
Test Procedures

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

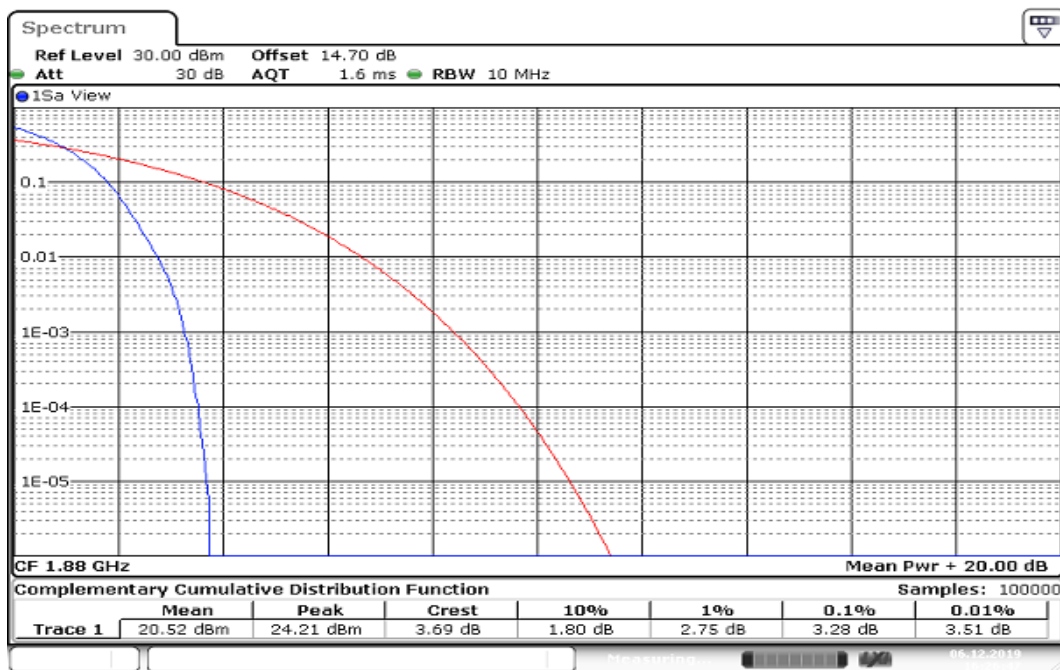
Test Data

WCDMA 12.2k RMC (Band II)

Low CH



Mid CH

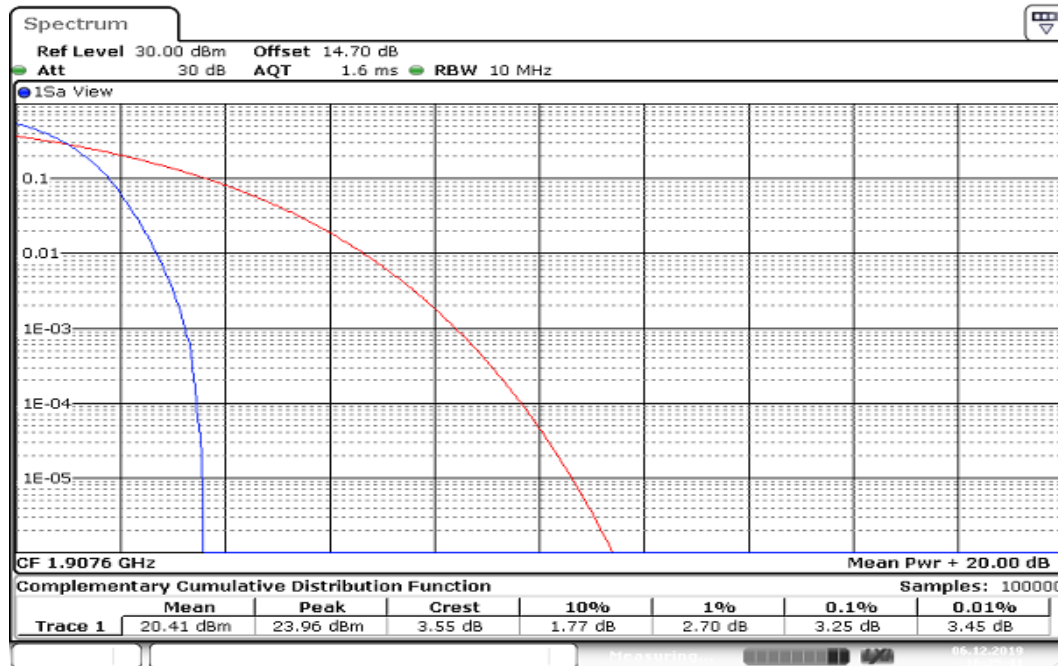




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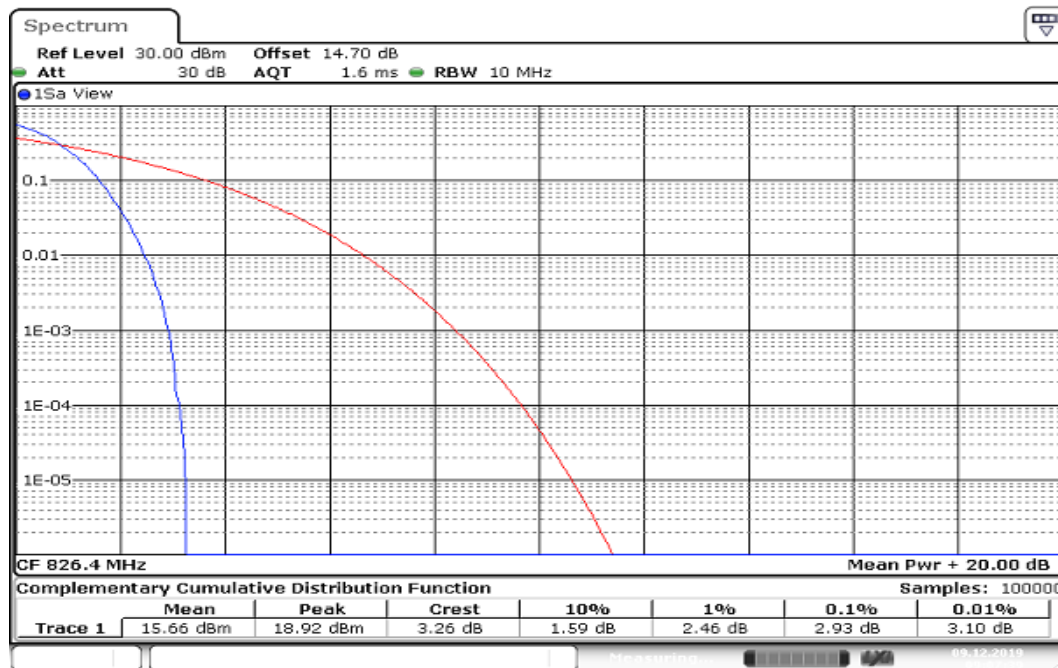
High CH



Date: 6.DEC.2019 16:25:42

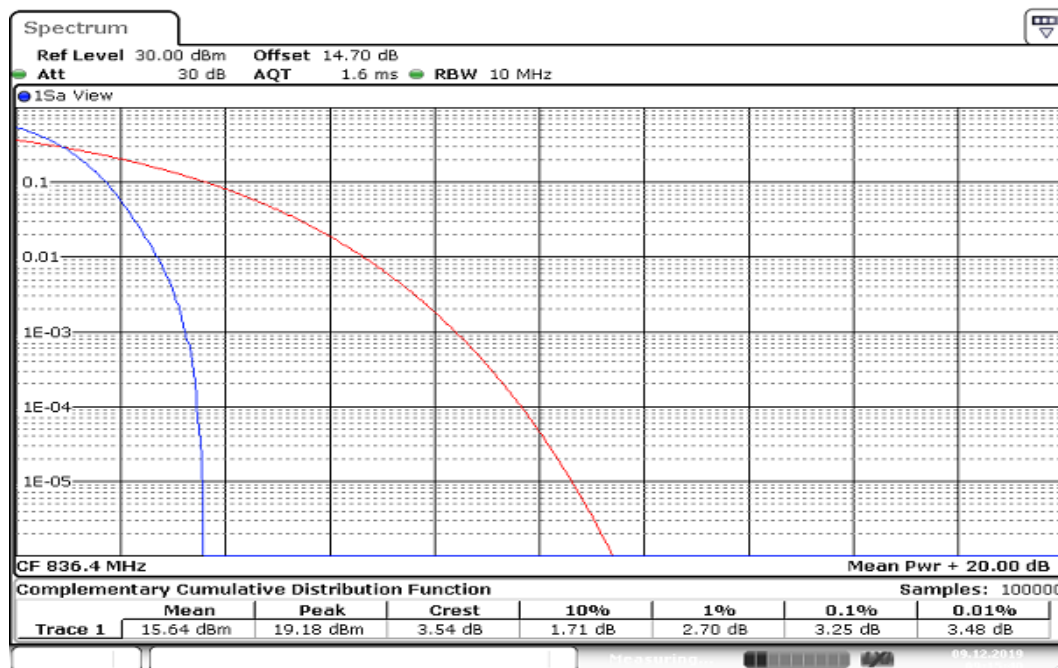
WCDMA 12.2k RMC (Band V)

Low CH



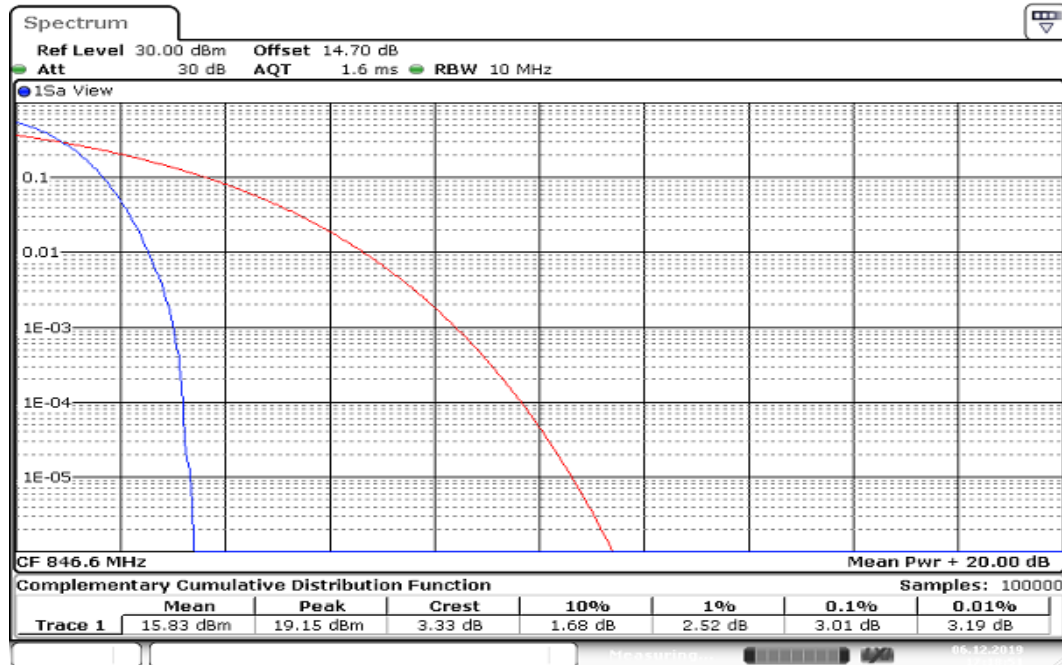
Date: 9.DEC.2019 09:07:40

Mid CH



Date: 9.DEC.2019 09:15:41

High CH



Date: 6.DEC.2019 17:18:51

8.5 CONDUCTED SPURIOUS EMISSIONS

Limit

FCC §22.917(a), Band 5

For operations in the 824-849 MHz band, out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §24.238(a), Band 2

For operations in the 1850-1910 and 1930-1950 MHz band, out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

RSS-132 section 5.5 and RSS-133 section 6.5

In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

Test Procedures

According to KDB 971168 D01,

1. The EUT was connected to spectrum analyzer and call box.
2. The RF output of EUT was connected to the spectrum analyzer.
3. Set the spectrum analyzer, RBW=1MHz, VBW=3MHz.
4. Record the maximum spurious emission.
5. The fundamental frequency should be excluded against the limit in operating band.

TEST RESULTS

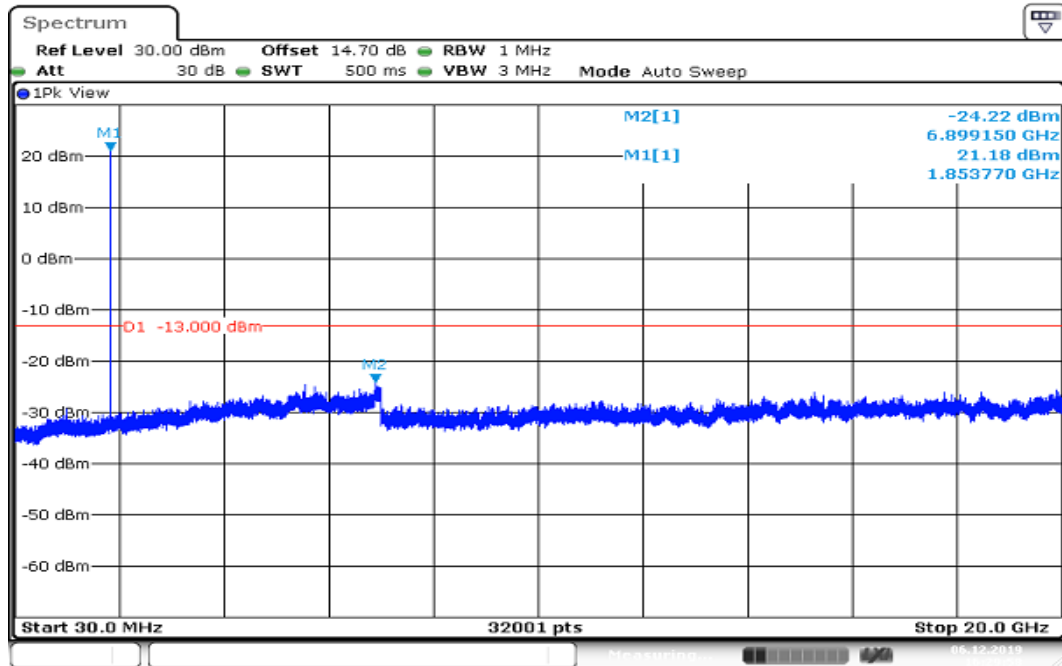
No non-compliance noted

Report No.: T191105W01-RP6

Test Data

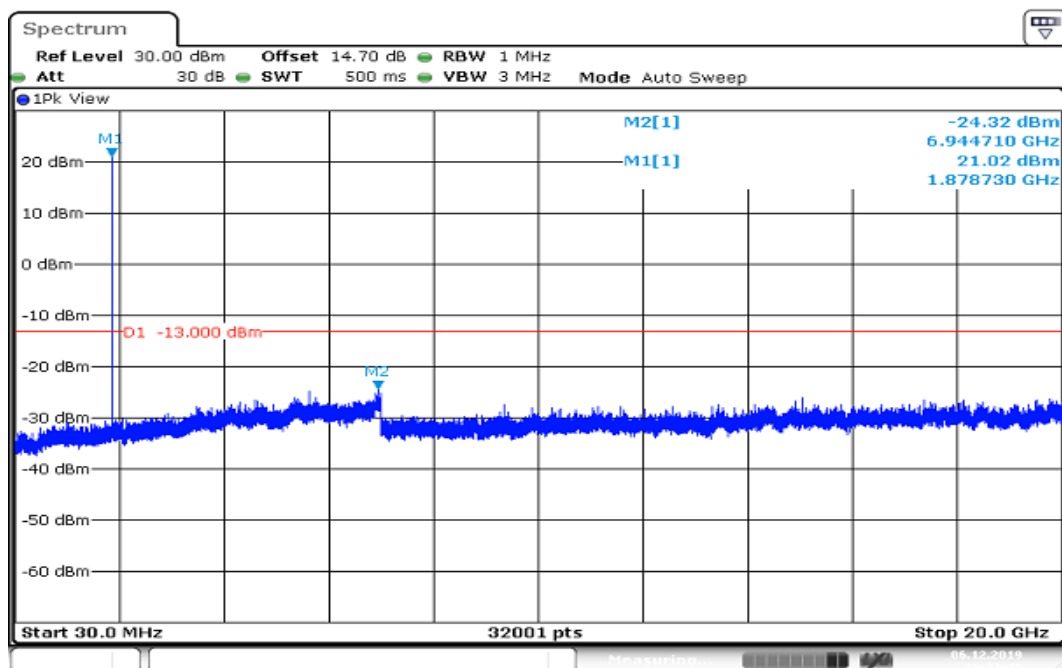
WCDMA 12.2k RMC (Band II)

Low CH



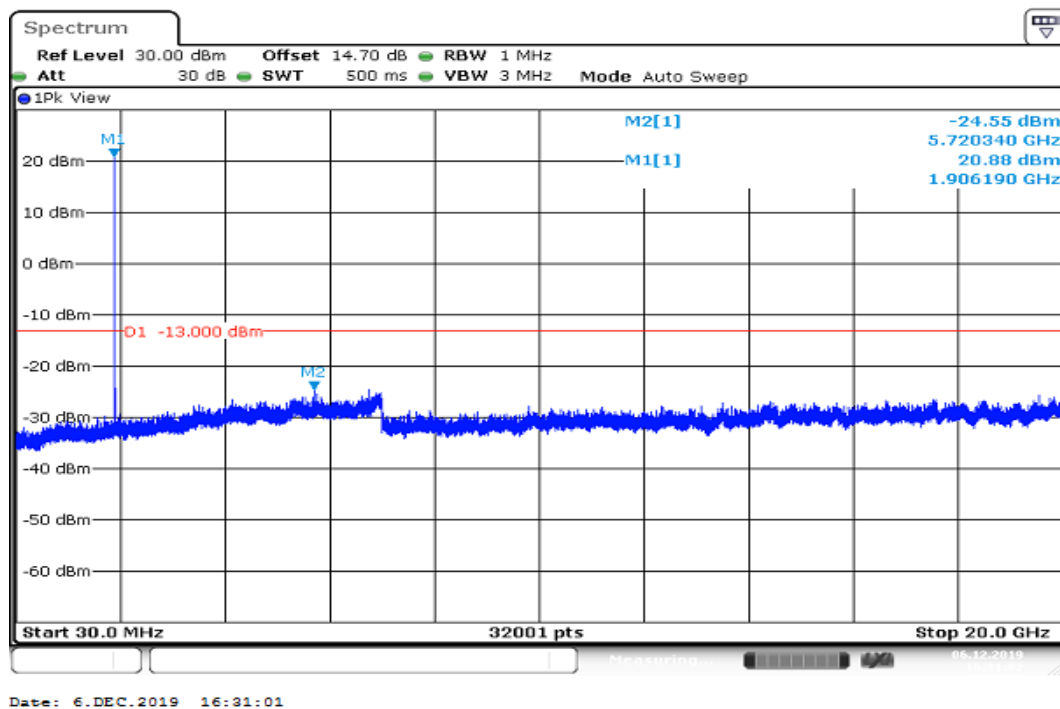
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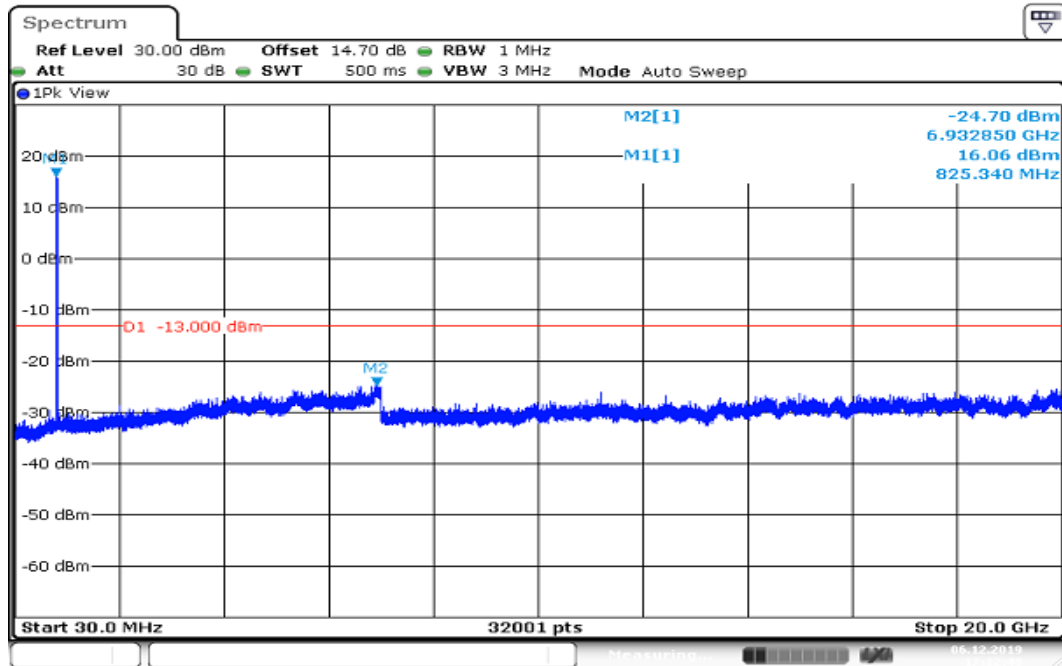
Mid CH



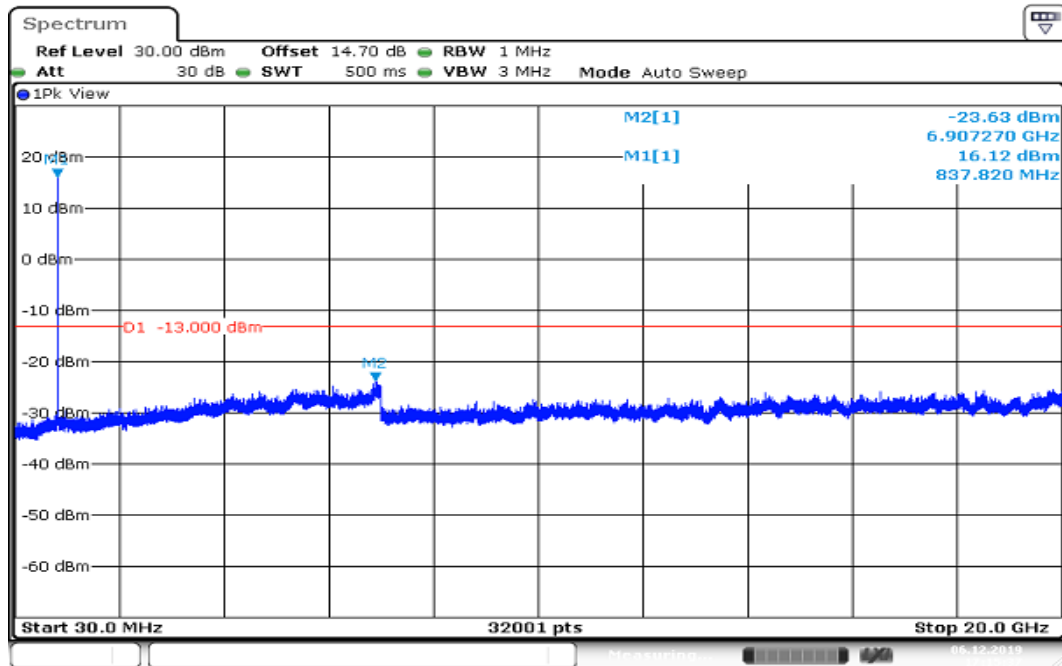
Date: 6.DEC.2019 16:31:45

High CH



WCDMA 12.2k RMC (Band V)**Low CH**

Date: 6.DEC.2019 17:12:48

Mid CH

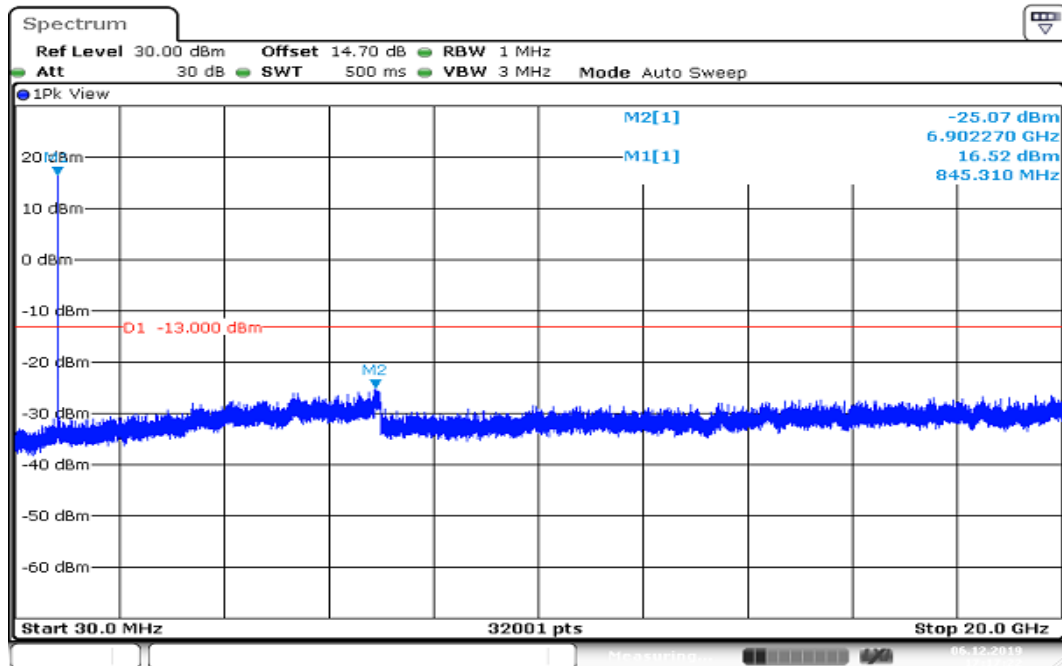
Date: 6.DEC.2019 17:15:37



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High CH



Date: 6.DEC.2019 17:17:22

8.6 SPURIOUS RADIATION MEASUREMENT

Limit

FCC §22.917(a), Band 5

For operations in the 824-849 MHz band, out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §24.238(a), Band 2

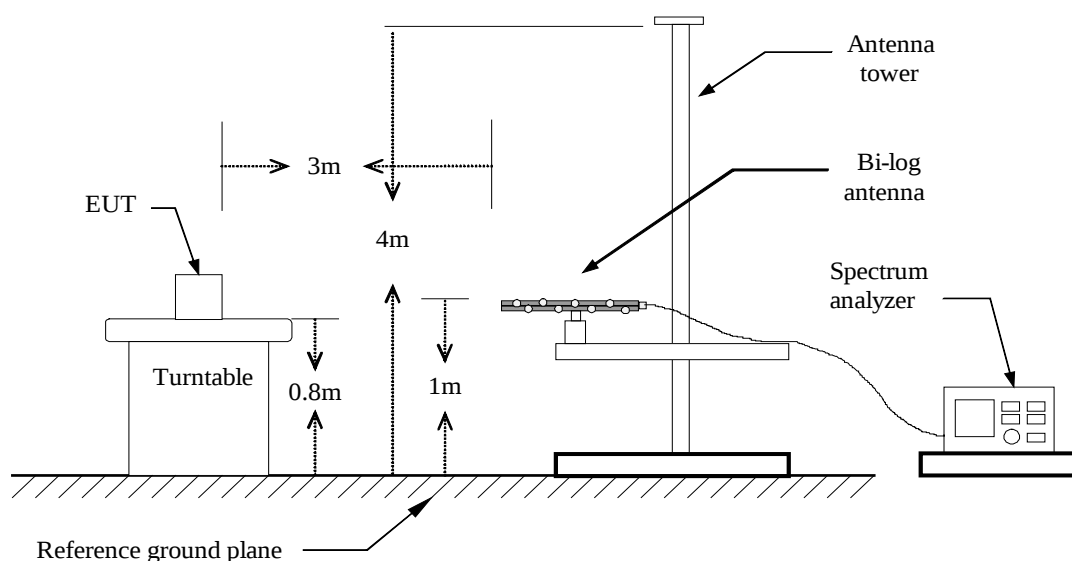
For operations in the 1850-1910 and 1930-1950 MHz band, out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

RSS-132 section 5.5 and RSS-133 section 6.5

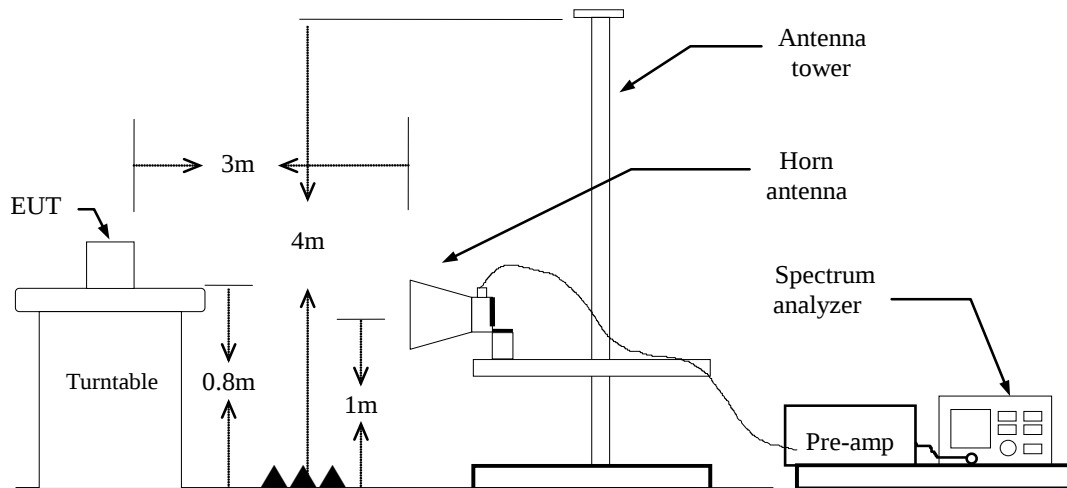
In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

Test Configuration

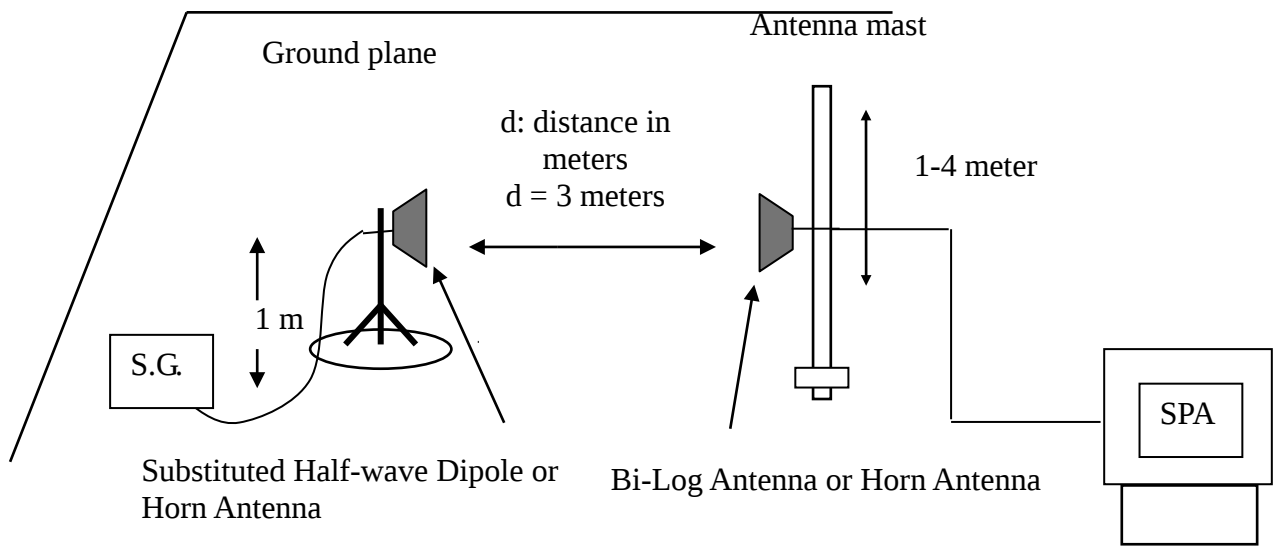
Below 1 GHz



Above 1 GHz



Substituted Method Test Set-up



TEST PROCEDURE

1. According to KDB 971168 D01.
2. The EUT was placed on a turntable
 - (1) Below 1G : 0.8m
 - (2) Above 1G : 0.8m
 - (3) EUT set 3m from the receiving antenna
 - (4) The table was rotated 360 degrees of the highest spurious emission to determine the position.
3. Set the spectrum analyzer , RBW=1MHz, VBW=3MHz.
4. A horn antenna was driven by a signal generator.
5. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable (dB)

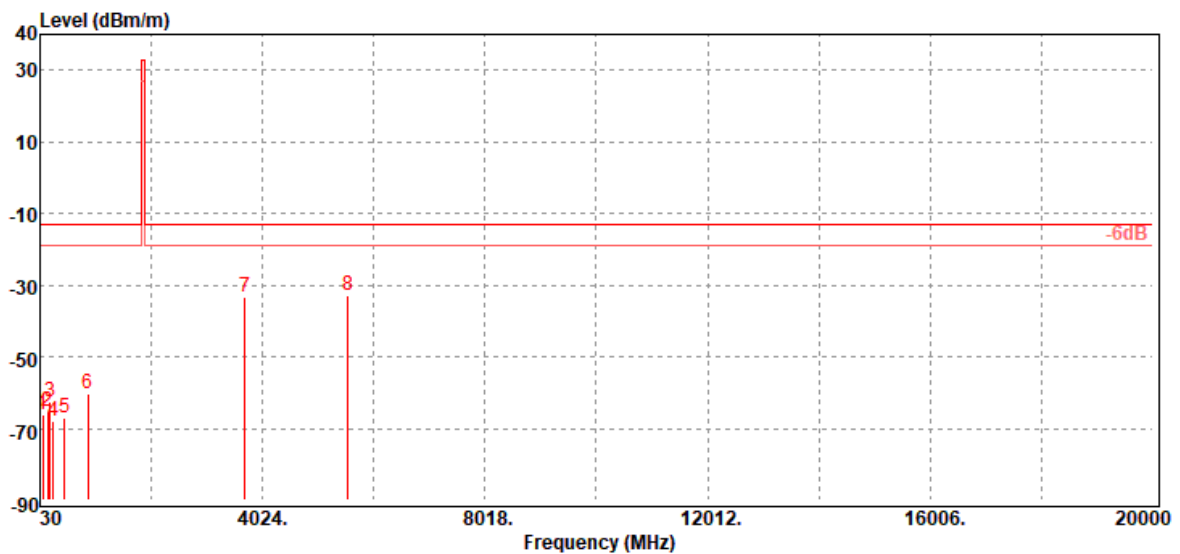
EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable (dB)

TEST RESULTS

Refer to the attached tabular data sheets.

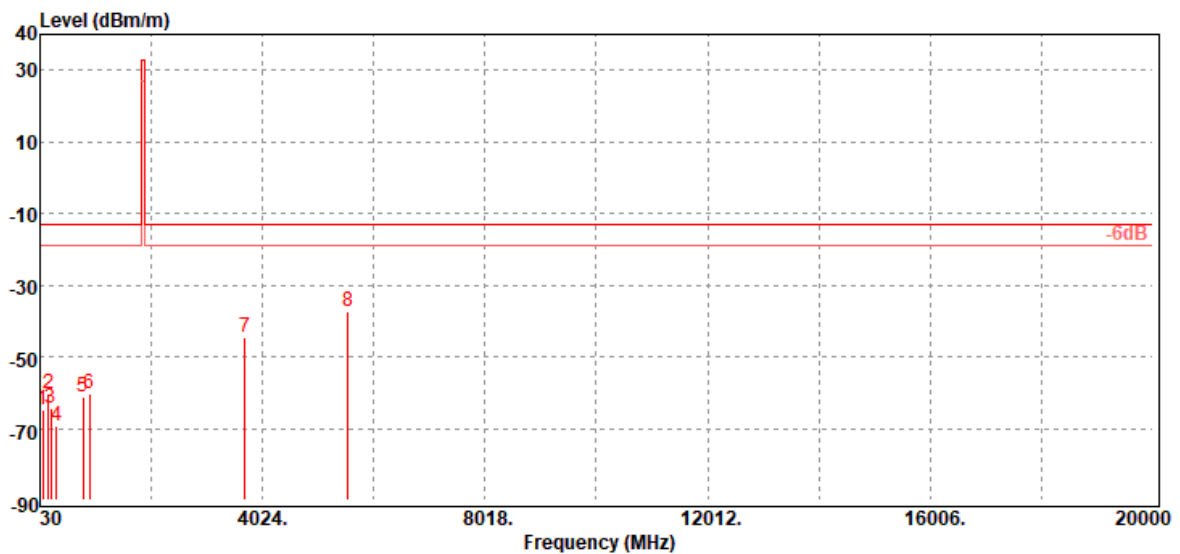
Radiated Spurious Emission Measurement Result

Operation Mode:	WCDMA 12.2k RMC Band II / TX /Low CH	Test Date:	December 10, 2019
Temperature:	18.6°C	Tested by:	Jerry Chang
Humidity:	59 % RH	Polarity:	Ver.



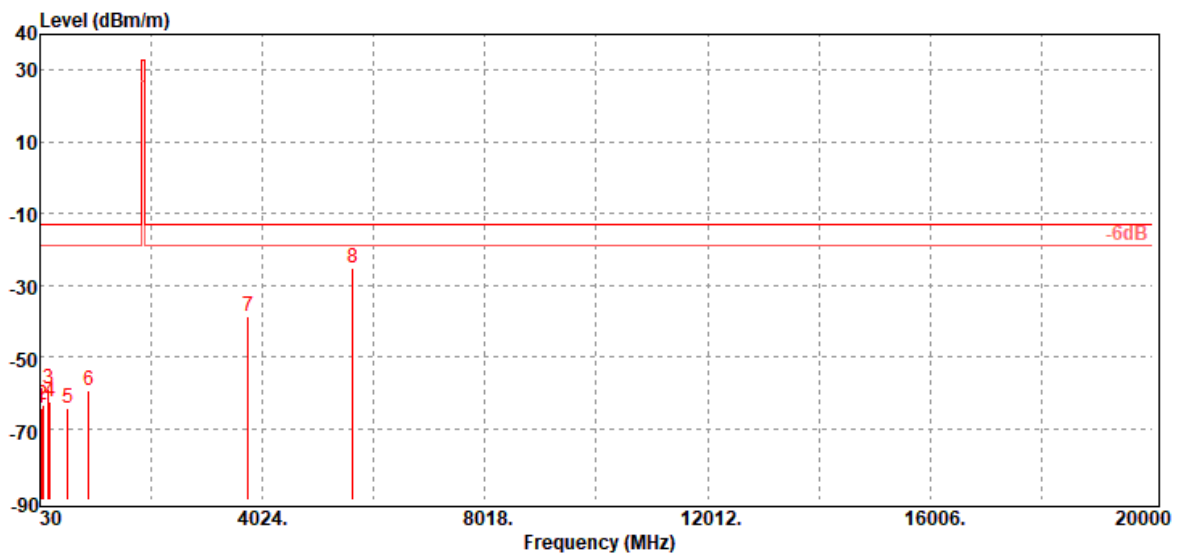
Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
76.56	-66.06	-56.55	-8.79	-0.72	-13.00	-53.06	V
172.59	-65.16	-58.94	-5.14	-1.08	-13.00	-52.16	V
217.21	-62.75	-59.48	-2.06	-1.21	-13.00	-49.75	V
272.50	-67.90	-63.94	-2.60	-1.36	-13.00	-54.90	V
474.26	-67.12	-62.91	-2.40	-1.81	-13.00	-54.12	V
888.45	-60.39	-56.64	-1.23	-2.52	-13.00	-47.39	V
3704.80	-33.22	-39.99	12.49	-5.72	-13.00	-20.22	V
5557.20	-32.74	-38.84	13.19	-7.09	-13.00	-19.74	V

Operation Mode:	WCDMA 12.2k RMC Band II / TX /Low CH	Test Date:	December 10, 2019
Temperature:	18.6°C	Tested by:	Jerry Chang
Humidity:	59 % RH	Polarity:	Hor.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
81.41	-64.84	-55.7	-8.40	-0.74	-13.00	-51.84	H
182.29	-60.49	-55.18	-4.20	-1.11	-13.00	-47.49	H
225.94	-64.45	-61.28	-1.94	-1.23	-13.00	-51.45	H
332.64	-69.42	-66.26	-1.65	-1.51	-13.00	-56.42	H
801.15	-61.37	-57.68	-1.32	-2.37	-13.00	-48.37	H
912.70	-60.17	-56.25	-1.35	-2.57	-13.00	-47.17	H
3704.80	-44.57	-51.34	12.49	-5.72	-13.00	-31.57	H
5557.20	-37.55	-43.65	13.19	-7.09	-13.00	-24.55	H

Operation Mode:	WCDMA 12.2k RMC Band II / TX /Mid CH	Test Date:	December 10, 2019
Temperature:	18.6°C	Tested by:	Jerry Chang
Humidity:	59 % RH	Polarity:	Ver.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
58.13	-64.33	-53.41	-10.30	-0.62	-13.00	-51.33	V
81.41	-63.28	-54.14	-8.40	-0.74	-13.00	-50.28	V
185.20	-59.00	-53.8	-4.08	-1.12	-13.00	-46.00	V
216.24	-62.38	-59.09	-2.08	-1.21	-13.00	-49.38	V
524.70	-64.37	-61.15	-1.31	-1.91	-13.00	-51.37	V
909.79	-59.59	-55.63	-1.40	-2.56	-13.00	-46.59	V
3760.00	-38.80	-45.46	12.42	-5.76	-13.00	-25.80	V
5640.00	-25.42	-31.54	13.26	-7.14	-13.00	-12.42	V

Operation Mode: WCDMA 12.2k RMC
Band II / TX /Mid CH

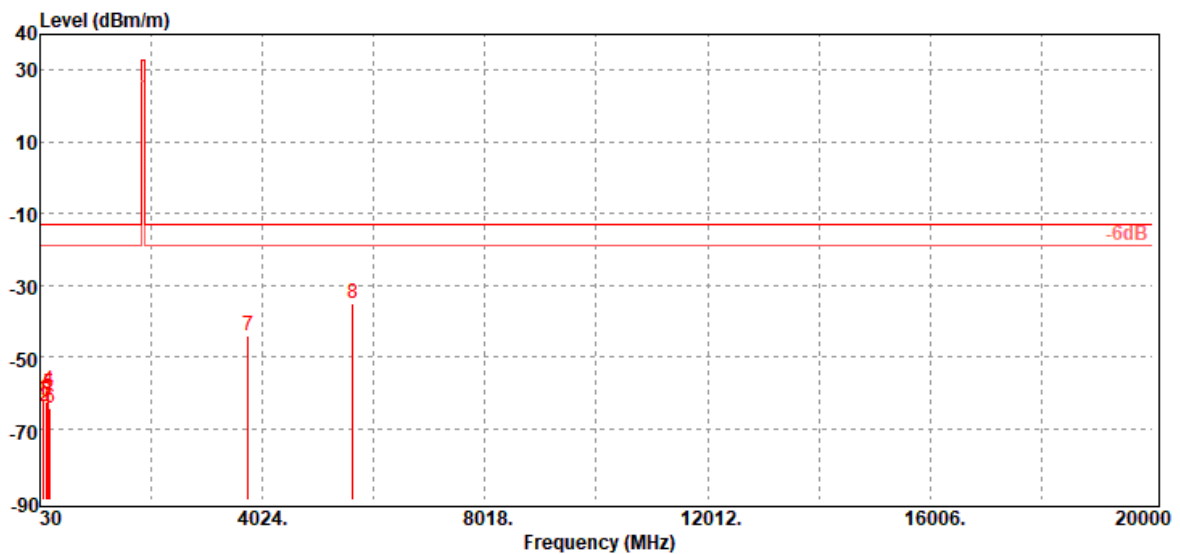
Temperature: 18.6°C

Humidity: 59 % RH

Test Date: December 10, 2019

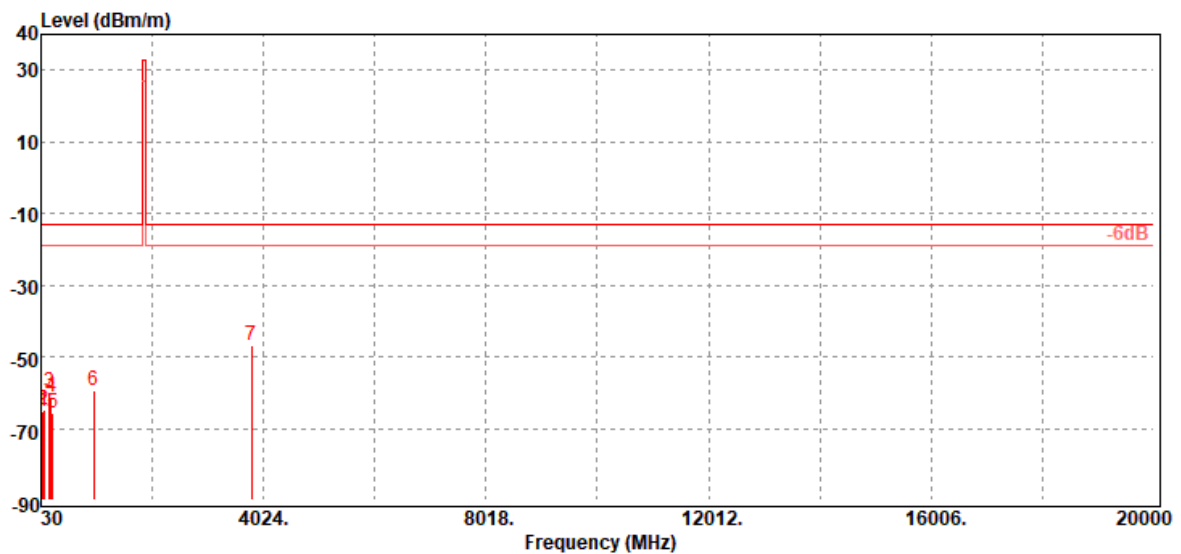
Tested by: Jerry Chang

Polarity: Hor.



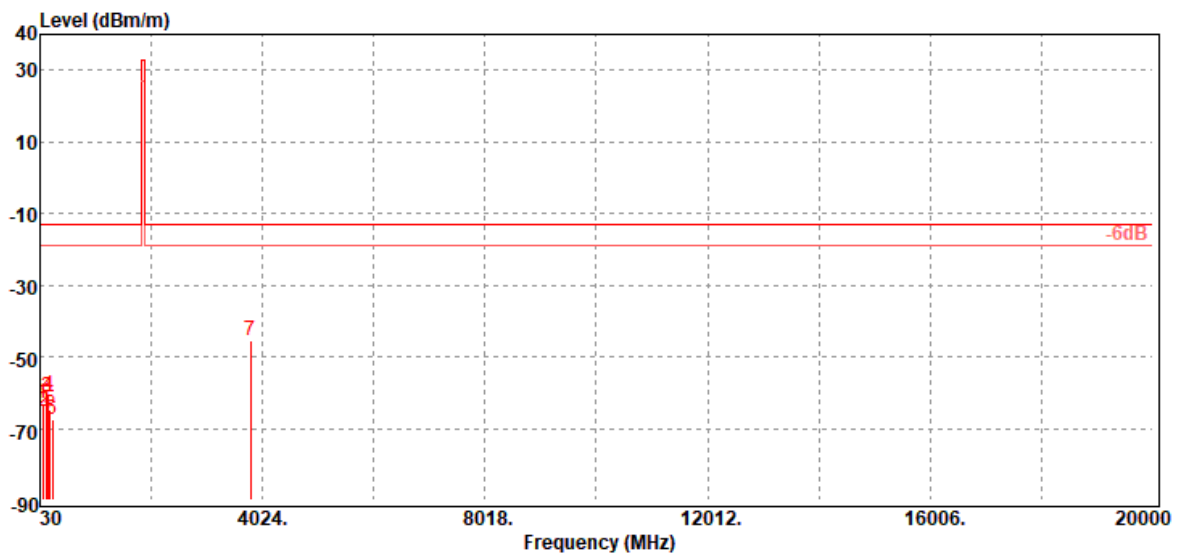
Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
81.41	-62.13	-52.99	-8.40	-0.74	-13.00	-49.13	H
143.49	-63.94	-54.96	-8.00	-0.98	-13.00	-50.94	H
156.10	-62.52	-54.9	-6.59	-1.03	-13.00	-49.52	H
177.44	-59.62	-53.87	-4.66	-1.09	-13.00	-46.62	H
184.23	-60.10	-54.88	-4.10	-1.12	-13.00	-47.10	H
217.21	-64.38	-61.11	-2.06	-1.21	-13.00	-51.38	H
3760.00	-44.29	-50.95	12.42	-5.76	-13.00	-31.29	H
5640.00	-35.13	-41.25	13.26	-7.14	-13.00	-22.13	H

Operation Mode:	WCDMA 12.2k RMC Band II / TX /High CH	Test Date:	December 10, 2019
Temperature:	18.6°C	Tested by:	Jerry Chang
Humidity:	59 % RH	Polarity:	Ver.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
61.04	-65.47	-54.63	-10.20	-0.64	-13.00	-52.47	V
81.41	-64.73	-55.59	-8.40	-0.74	-13.00	-51.73	V
185.20	-59.72	-54.52	-4.08	-1.12	-13.00	-46.72	V
217.21	-61.43	-58.16	-2.06	-1.21	-13.00	-48.43	V
246.31	-65.56	-62.4	-1.87	-1.29	-13.00	-52.56	V
977.69	-59.45	-55.45	-1.35	-2.65	-13.00	-46.45	V
3815.20	-46.73	-53.4	12.47	-5.80	-13.00	-33.73	V

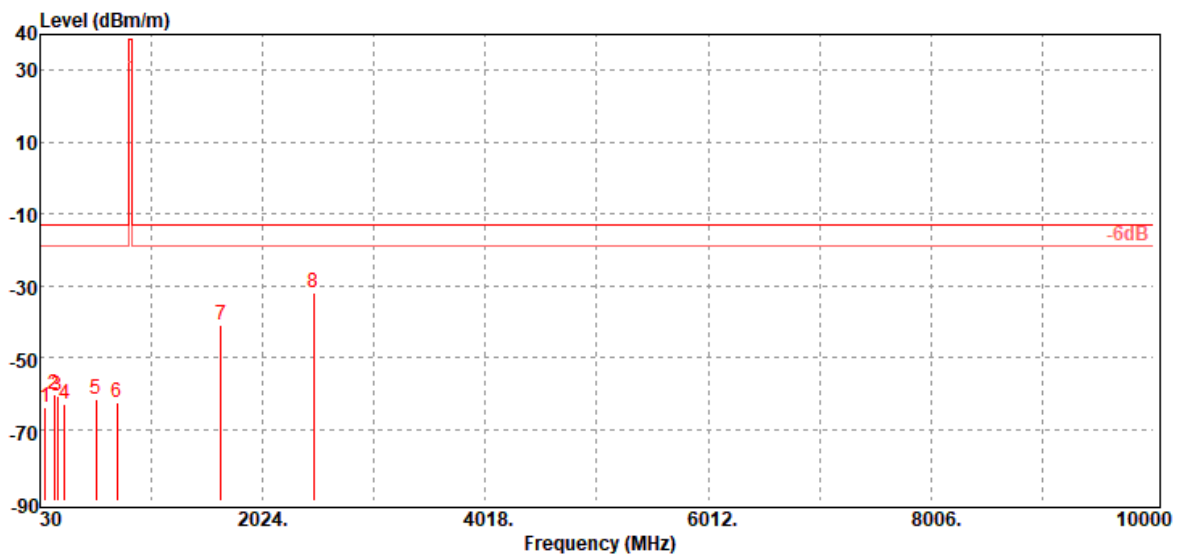
Operation Mode:	WCDMA 12.2k RMC Band II / TX / High CH	Test Date:	December 10, 2019
Temperature:	18.6°C	Tested by:	Jerry Chang
Humidity:	59 % RH	Polarity:	Hor.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
81.41	-63.08	-53.94	-8.40	-0.74	-13.00	-50.08	H
88.20	-65.21	-57.28	-7.16	-0.77	-13.00	-52.21	H
156.10	-61.27	-53.65	-6.59	-1.03	-13.00	-48.27	H
178.41	-60.89	-55.23	-4.56	-1.10	-13.00	-47.89	H
214.30	-64.82	-61.52	-2.10	-1.20	-13.00	-51.82	H
251.16	-67.67	-64.62	-1.75	-1.30	-13.00	-54.67	H
3815.20	-45.55	-52.22	12.47	-5.80	-13.00	-32.55	H

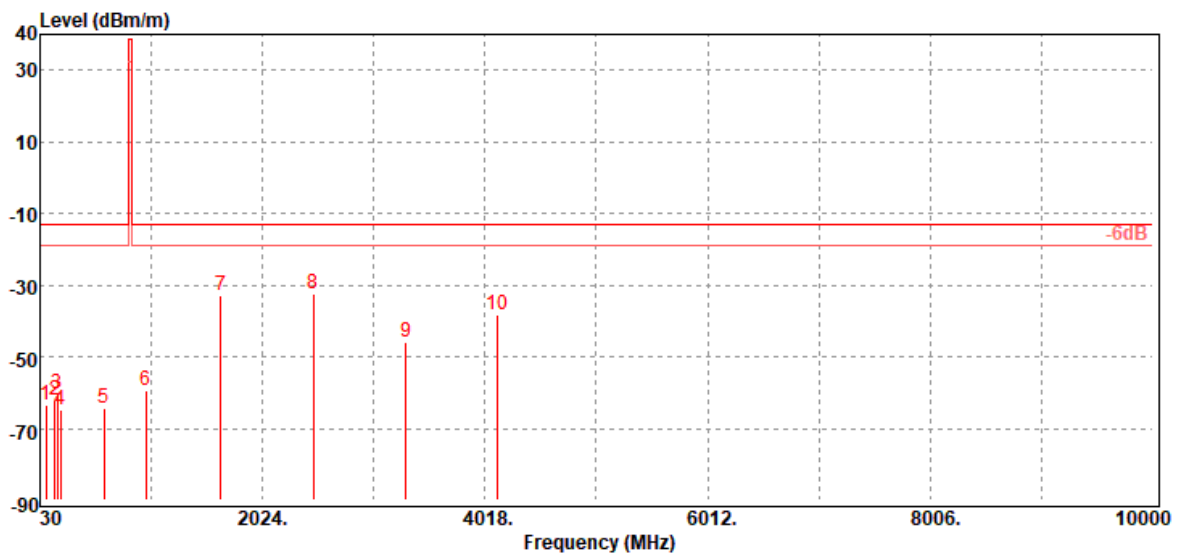
Radiated Spurious Emission Measurement Result

Operation Mode: WCDMA 12.2k RMC Band V / TX / Low CH **Test Date:** December 10, 2019
Temperature: 18.6°C **Tested by:** Jerry Chang
Humidity: 59 % RH **Polarity:** Ver.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
78.50	-64.12	-54.84	-8.55	-0.73	-13.00	-51.12	V
154.16	-60.23	-52.43	-6.78	-1.02	-13.00	-47.23	V
185.20	-60.78	-55.58	-4.08	-1.12	-13.00	-47.78	V
248.25	-63.08	-59.95	-1.83	-1.30	-13.00	-50.08	V
532.46	-61.59	-58.37	-1.30	-1.92	-13.00	-48.59	V
721.61	-62.35	-58.69	-1.40	-2.26	-13.00	-49.35	V
1652.80	-41.00	-47.17	9.72	-3.55	-13.00	-28.00	V
2479.20	-31.88	-38.05	10.72	-4.55	-13.00	-18.88	V

Operation Mode:	WCDMA 12.2k RMC Band V / TX / Low CH	Test Date:	December 10, 2019
Temperature:	18.6°C	Tested by:	Jerry Chang
Humidity:	59 % RH	Polarity:	Hor.



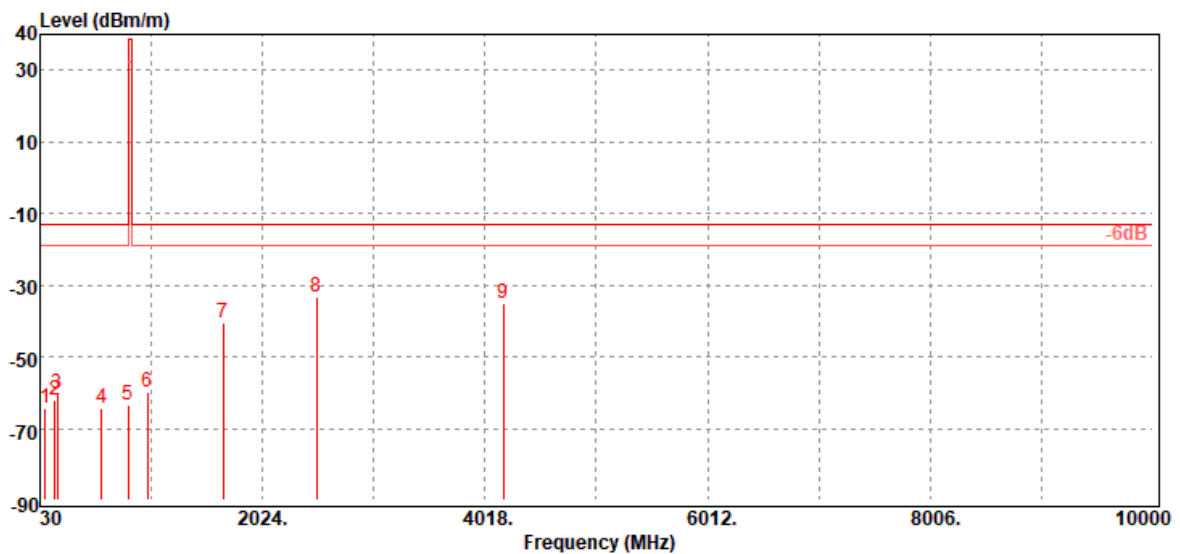
Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
81.41	-63.57	-54.43	-8.40	-0.74	-13.00	-50.57	H
160.95	-62.22	-55.07	-6.11	-1.04	-13.00	-49.22	H
183.26	-60.12	-54.84	-4.17	-1.11	-13.00	-47.12	H
212.36	-64.94	-61.64	-2.10	-1.20	-13.00	-51.94	H
600.36	-64.16	-61.18	-0.91	-2.07	-13.00	-51.16	H
977.69	-59.62	-55.62	-1.35	-2.65	-13.00	-46.62	H
1652.80	-33.09	-39.26	9.72	-3.55	-13.00	-20.09	H
2479.20	-32.57	-38.74	10.72	-4.55	-13.00	-19.57	H
3305.60	-45.91	-53.14	12.63	-5.40	-13.00	-32.91	H
4132.00	-38.14	-44.96	12.86	-6.04	-13.00	-25.14	H

Operation Mode:	WCDMA 12.2k RMC Band V / TX / Mid CH	Test Date:	December 10, 2019
Temperature:	18.6°C	Tested by:	Jerry Chang
Humidity:	59 % RH	Polarity:	Ver.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
32.91	-62.51	-34.85	-27.19	-0.47	-13.00	-49.51	V
59.10	-65.32	-54.38	-10.31	-0.63	-13.00	-52.32	V
187.14	-64.29	-59.17	-3.99	-1.13	-13.00	-51.29	V
214.30	-64.37	-61.07	-2.10	-1.20	-13.00	-51.37	V
711.91	-64.34	-60.69	-1.40	-2.25	-13.00	-51.34	V
990.30	-60.55	-56.49	-1.40	-2.66	-13.00	-47.55	V
1672.80	-38.81	-45.07	9.84	-3.58	-13.00	-25.81	V
2509.20	-33.00	-39.21	10.80	-4.59	-13.00	-20.00	V
4182.00	-43.91	-50.74	12.90	-6.07	-13.00	-30.91	V

Operation Mode:	WCDMA 12.2k RMC Band V / TX / Mid CH	Test Date:	December 10, 2019
Temperature:	18.6°C	Tested by:	Jerry Chang
Humidity:	59 % RH	Polarity:	Hor.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
80.44	-64.20	-55.01	-8.46	-0.73	-13.00	-51.20	H
160.95	-62.09	-54.94	-6.11	-1.04	-13.00	-49.09	H
185.20	-60.36	-55.16	-4.08	-1.12	-13.00	-47.36	H
579.99	-64.43	-61.01	-1.40	-2.02	-13.00	-51.43	H
817.64	-63.68	-59.77	-1.51	-2.40	-13.00	-50.68	H
990.30	-60.07	-56.01	-1.40	-2.66	-13.00	-47.07	H
1672.80	-40.41	-46.67	9.84	-3.58	-13.00	-27.41	H
2509.20	-33.30	-39.51	10.80	-4.59	-13.00	-20.30	H
4182.00	-35.29	-42.12	12.90	-6.07	-13.00	-22.29	H

Operation Mode:	WCDMA 12.2k RMC Band V / TX / High CH	Test Date:	December 10, 2019
Temperature:	18.6°C	Tested by:	Jerry Chang
Humidity:	59 % RH	Polarity:	Ver.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
56.19	-63.69	-52.58	-10.50	-0.61	-13.00	-50.69	V
75.59	-65.35	-55.66	-8.98	-0.71	-13.00	-52.35	V
190.05	-60.87	-55.74	-4.00	-1.13	-13.00	-47.87	V
212.36	-62.22	-58.92	-2.10	-1.20	-13.00	-49.22	V
721.61	-61.36	-57.7	-1.40	-2.26	-13.00	-48.36	V
972.84	-60.75	-56.75	-1.36	-2.64	-13.00	-47.75	V
1693.20	-53.06	-59.42	9.96	-3.60	-13.00	-40.06	V
2539.80	-44.18	-50.36	10.80	-4.62	-13.00	-31.18	V

Operation Mode: WCDMA 12.2k RMC
Band V / TX / High CH

Test Date:

December 10, 2019

Temperature: 18.6°C

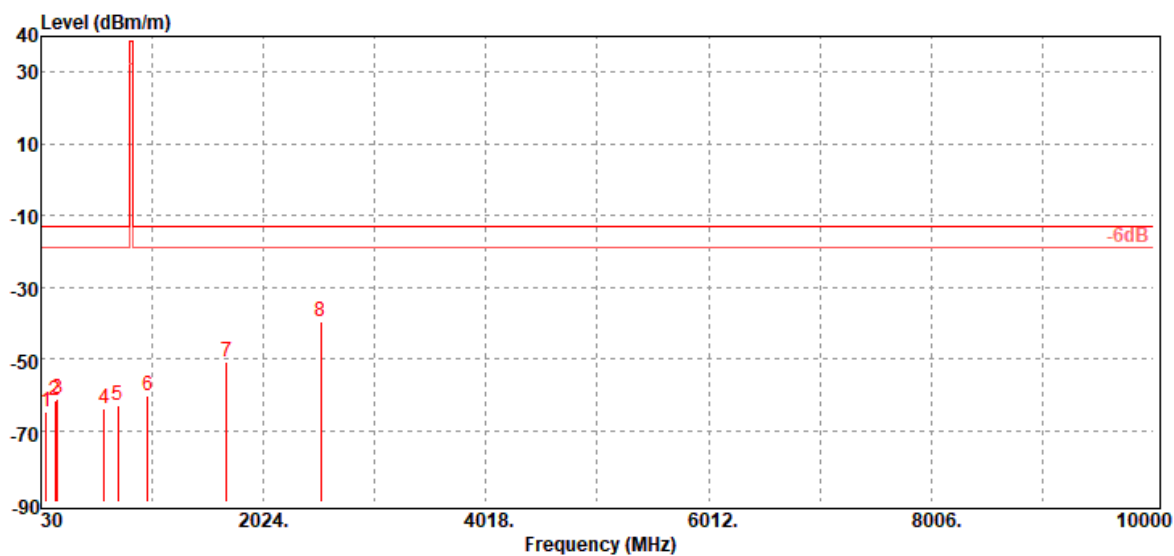
Tested by:

Jerry Chang

Humidity: 59 % RH

Polarity:

Hor.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
80.44	-64.89	-55.7	-8.46	-0.73	-13.00	-51.89	H
158.04	-61.61	-54.18	-6.40	-1.03	-13.00	-48.61	H
177.44	-61.03	-55.28	-4.66	-1.09	-13.00	-48.03	H
597.45	-63.99	-61.08	-0.85	-2.06	-13.00	-50.99	H
715.79	-63.08	-59.43	-1.40	-2.25	-13.00	-50.08	H
983.51	-60.37	-56.35	-1.37	-2.65	-13.00	-47.37	H
1693.20	-50.72	-57.08	9.96	-3.60	-13.00	-37.72	H
2539.80	-39.73	-45.91	10.80	-4.62	-13.00	-26.73	H



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8.7 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

LIMIT

According to FCC §2.1055, FCC §22.355, .FCC §24.235.

According to RSS-132 (5.3) & RSS-133 (6.3).

Test Procedure

Use Anritsu 8820 with frequency Error measurement capability.

Temp = -30 to +50°C , Voltage= 85% to 115% of the nominal value for AC powered equipment. Frequency Tolerance: +/-2.5 ppm

NOTE: The frequency error was recorded frequency error from the communication simulator.



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TEST RESULTS

No non-compliance noted.

Reference Frequency: WCDMA 12.2k RMC Band II Low Channel 1852.4 MHz				
Limit: ☐ 2.5 ppm = 4631 Hz				
Power Supply (Vac)	Environment Temperature (°C)	Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
120	65	1.00	0.0005	+/- 2.5
120	50	0.00	0.0000	
120	40	1.00	0.0005	
120	30	1.00	0.0005	
120	20	-1.00	-0.0005	
120	10	0.00	0.0000	
120	0	1.00	0.0005	
120	-10	-1.00	-0.0005	
120	-20	0.00	0.0000	
120	-35	0.00	0.0000	

Reference Frequency: WCDMA 12.2k RMC Band II Mid Channel 1880 MHz				
Limit: ☐ 2.5 ppm = 4700 Hz				
Power Supply (Vac)	Environment Temperature (°C)	Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
120	65	2.00	0.0011	+/- 2.5
120	50	1.00	0.0005	
120	40	-1.00	-0.0005	
120	30	-1.00	-0.0005	
120	20	1.00	0.0005	
120	10	0.00	0.0000	
120	0	1.00	0.0005	
120	-10	1.00	0.0005	
120	-20	-1.00	-0.0005	
120	-35	1.00	0.0005	



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Reference Frequency: WCDMA 12.2k RMC Band II High Channel 1907.6 MHz				
Limit: □ 2.5 ppm = 4769 Hz				
Power Supply (Vac)	Environment Temperature (°C)	Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
120	65	1.00	0.0005	+/- 2.5
120	50	0.00	0.0000	
120	40	-1.00	-0.0005	
120	30	0.00	0.0000	
120	20	1.00	0.0005	
120	10	-1.00	-0.0005	
120	0	2.00	0.0010	
120	-10	-1.00	-0.0005	
120	-20	1.00	0.0005	
120	-35	-1.00	-0.0005	

Reference Frequency: WCDMA 12.2k RMC Band V Low Channel 826.4 MHz				
Limit: □ 2.5 ppm = 2066 Hz				
Power Supply (Vac)	Environment Temperature (°C)	Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
120	65	-1.00	-0.0012	+/- 2.5
120	50	2.00	0.0024	
120	40	2.00	0.0024	
120	30	1.00	0.0012	
120	20	0.00	0.0000	
120	10	1.00	0.0012	
120	0	-1.00	-0.0012	
120	-10	-2.00	-0.0024	
120	-20	1.00	0.0012	
120	-35	1.00	0.0012	

Reference Frequency: WCDMA 12.2k RMC Band V Mid Channel 836.6 MHz				
Limit: □ 2.5 ppm = 2091.5 Hz				
Power Supply (Vac)	Environment Temperature (°C)	Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
120	65	-2.00	-0.0024	+/- 2.5
120	50	1.00	0.0012	
120	40	1.00	0.0012	
120	30	0.00	0.0000	
120	20	-1.00	-0.0012	
120	10	-1.00	-0.0012	
120	0	0.00	0.0000	
120	-10	0.00	0.0000	
120	-20	-2.00	-0.0024	
120	-35	-2.00	-0.0024	

Reference Frequency: WCDMA 12.2k RMC Band V High Channel 846.6 MHz				
Limit: □ 2.5 ppm = 2116.5 Hz				
Power Supply (Vac)	Environment Temperature (°C)	Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
120	65	-2.00	-0.0024	+/- 2.5
120	50	1.00	0.0012	
120	40	-1.00	-0.0012	
120	30	0.00	0.0000	
120	20	1.00	0.0012	
120	10	-2.00	-0.0024	
120	0	-2.00	-0.0024	
120	-10	-1.00	-0.0012	
120	-20	0.00	0.0000	
120	-35	1.00	0.0012	

FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT:

Reference Frequency: WCDMA 12.2k RMC Band II Low Channel 1852.4 MHz				
Limit: □ 2.5 ppm = 4631Hz				
Power Supply (Vac)	Environment Temperature (°C)	Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
102	20	0.00	0.0000	+/- 2.5
120		0.00	0.0000	
138		-1.00	-0.0005	

Reference Frequency: WCDMA 12.2k RMC Band II Mid Channel 1880 MHz				
Limit: □ 2.5 ppm = 4700Hz				
Power Supply (Vac)	Environment Temperature (°C)	Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
102	20	0.00	0.0000	+/- 2.5
120		-1.00	-0.0005	
138		1.00	0.0005	

Reference Frequency: WCDMA 12.2k RMC Band II High Channel 1907.6 MHz				
Limit: □ 2.5 ppm = 4769Hz				
Power Supply (Vac)	Environment Temperature (°C)	Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
102	20	1.00	0.0005	+/- 2.5
120		1.00	0.0005	
138		1.00	0.0005	



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Reference Frequency: WCDMA 12.2k RMC Band V Mid Channel 826.4 MHz				
Limit: □ 2.5 ppm = 2066Hz				
Power Supply (Vac)	Environment Temperature (°C)	Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
102	20	1.00	0.0012	+/- 2.5
120		0.00	0.0000	
138		-1.00	-0.0012	

Reference Frequency: WCDMA 12.2k RMC Band V Mid Channel 836.6 MHz				
Limit: □ 2.5 ppm = 2091.5Hz				
Power Supply (Vac)	Environment Temperature (°C)	Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
102	20	0.00	0.0000	+/- 2.5
120		0.00	0.0000	
138		-1.00	-0.0012	

Reference Frequency: WCDMA 12.2k RMC Band V Mid Channel 846.6 MHz				
Limit: □ 2.5 ppm = 2116.5Hz				
Power Supply (Vac)	Environment Temperature (°C)	Frequency Error(Hz)	Frequency Error (ppm)	Limit (ppm)
102	20	1.00	0.0012	+/- 2.5
120		0.00	0.0000	
138		-1.00	-0.0012	

- End of Test Report -