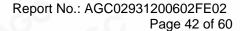
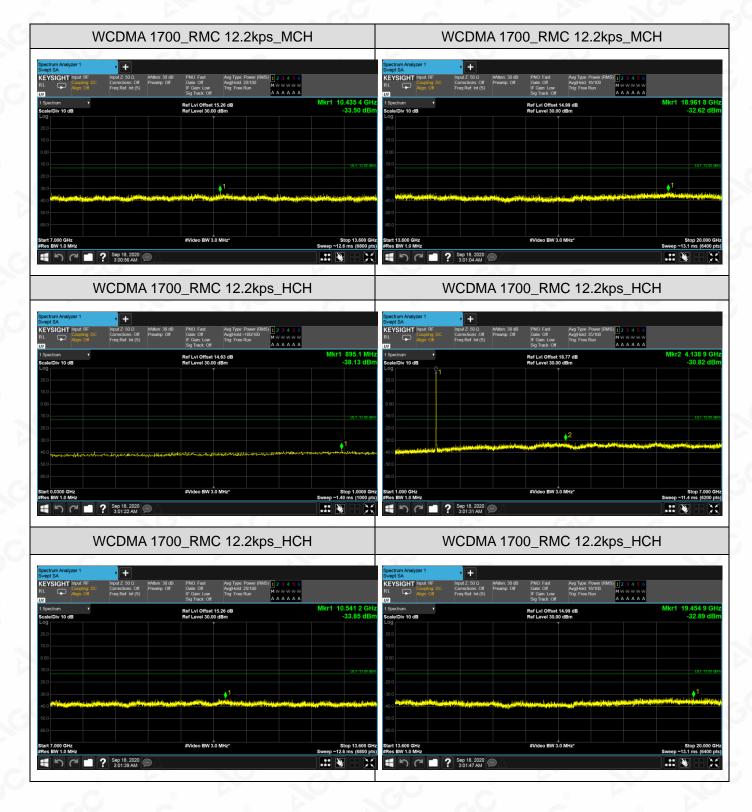


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Note: 1. Below 30MHZ no Spurious found and Above is the worst mode data.

2. As no emission found in standby or receive mode, no recording in this report.

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12. RADIATED SPURIOUS EMISSION

12.1. PROVISIONS APPLICABLE

(A) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm.

At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

(B) For specific criteria, please refer to the description in section 9.2 of the report for corresponding evaluation.

12.2. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.

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- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.
- 11. For spurious emissions above 1GHz, a horn antenna is substituted in place of the EUT.

The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The spurious emissions is calculated by the following formula;

Result(dBm) = Pg(dBm) + Factor(dB)

Factor(dB) = Ant Gain(dB)-Cable Loss(dB) + Power Splitter(dB) (Above 1GHz)

Factor(dB) = Ant Gain(dB)-Cable Loss(dB) (Below 1GHz)

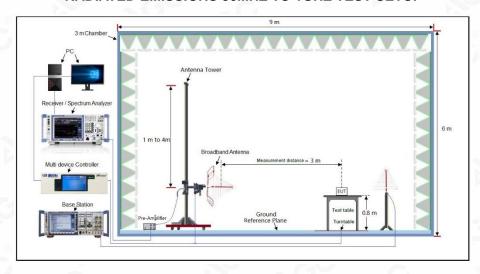
Where: Pgis the generator output power into the substitution antenna.

If the fundalmatal frequency is below 1GHz, RF output power has been converted to EIRP.

EIRP(dBm) = ERP(dBm) + 2.15

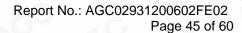
12.3. MEASUREMENT setup

RADIATED EMISSIONS 30MHZ TO 1GHZ TEST SETUP

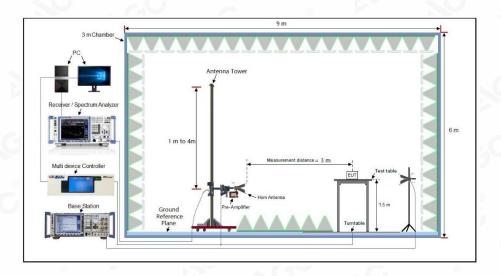


RADIATED EMISSIONS ABOVE 1GHZ TEST SETUP

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12.4 MEASUREMENT RESULT

The measurement Below 1GHz data as follows:

			WCD	MA Band II			
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	7
			RMC 12.2kbp	s_ Lowest C	hannel		
1	159.759	-66.27	15.52	-51.55	-13.00	-38.55	Horizontal
2	240.144	-62.76	16.75	-46.43	-13.00	-33.43	Horizontal
3	754.963	-60.16	19.35	-40.48	-13.00	-27.48	Horizontal
4	46.708	-64.70	10.44	-55.02	-13.00	-42.02	Vertical
5	433.340	-62.81	17.75	-44.84	-13.00	-31.84	Vertical
6	502.247	-60.77	18.66	-40.34	-13.00	-27.34	Vertical
			RMC 12.2kbp	s_ Middle Cl	nannel		
1	31.735	-63.52	9.78	-53.74	-13.00	-40.74	Horizontal
2	159.759	-64.85	13.75	-51.10	-13.00	-38.10	Horizontal
3	240.144	-62.41	16.75	-45.66	-13.00	-32.66	Horizontal
4	43.233	-64.64	10.23	-54.41	-13.00	-41.41	Vertical
5	433.340	-63.61	17.75	-45.86	-13.00	-32.86	Vertical
6	498.730	-60.52	18.02	-42.50	-13.00	-29.50	Vertical
			RMC 12.2kbp	s_ Highest C	hannel		
1	159.759	-64.72	13.75	-50.97	-13.00	-37.97	Horizontal
2	240.144	-63.54	16.75	-46.79	-13.00	-33.79	Horizontal

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3	679.435	-61.04	19.01	-42.03	-13.00	-29.03	Horizontal
4	43.233	-64.06	10.23	-53.83	-13.00	-40.83	Vertical
5	433.340	-63.17	17.75	-45.42	-13.00	-32.42	Vertical
6	498.730	-59.73	18.02	-41.71	-13.00	-28.71	Vertical

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			WCDI	MA Band IV			
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
			RMC 12.2kbp	s_ Lowest C	hannel		
1	159.759	-66.42	15.52	-50.90	-13.00	-37.90	Horizontal
2	240.144	-62.54	16.75	-45.79	-13.00	-32.79	Horizontal
3	754.963	-60.82	19.35	-41.47	-13.00	-28.47	Horizontal
4	46.708	-64.98	10.44	-54.54	-13.00	-41.54	Vertical
5	433.340	-61.60	17.75	-43.85	-13.00	-30.85	Vertical
6	502.247	-59.64	18.66	-40.98	-13.00	-27.98	Vertical
			RMC 12.2kbp	s_ Middle Ch	nannel	·	
1	31.735	-63.51	9.78	-53.73	-13.00	-40.73	Horizontal
2	159.759	-65.18	13.75	-51.43	-13.00	-38.43	Horizontal
3	240.144	-62.66	16.75	-45.91	-13.00	-32.91	Horizontal
4	43.233	-64.62	10.23	-54.39	-13.00	-41.39	Vertical
5	433.340	-63.92	17.75	-46.17	-13.00	-33.17	Vertical
6	498.730	-60.11	18.02	-42.09	-13.00	-29.09	Vertical
			RMC 12.2kbps	s_ Highest C	hannel		
1	159.759	-65.05	13.75	-51.30	-13.00	-38.30	Horizontal
2	240.144	-62.8	16.75	-46.05	-13.00	-33.05	Horizontal
3	679.435	-60.96	19.01	-41.95	-13.00	-28.95	Horizontal
4	43.233	-64.23	10.23	-54.00	-13.00	-41.00	Vertical
5	433.340	-62.01	17.75	-44.26	-13.00	-31.26	Vertical
6	498.730	-60.47	18.02	-42.45	-13.00	-29.45	Vertical

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			WCD	MA Band V			
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
			RMC 12.2kbp	s_ Lowest C	hannel		
1	159.759	-66.39	15.52	-50.87	-13.00	-37.87	Horizontal
2	240.144	-62.86	16.75	-46.11	-13.00	-33.11	Horizontal
3	754.963	-59.67	19.35	-40.32	-13.00	-27.32	Horizontal
4	46.708	-64.98	10.44	-54.54	-13.00	-41.54	Vertical
5	433.340	-62.36	17.75	-44.61	-13.00	-31.61	Vertical
6	502.247	-59.62	18.66	-40.96	-13.00	-27.96	Vertical
			RMC 12.2kbp	s_ Middle Cl	nannel		
1	31.735	-64.06	9.78	-54.28	-13.00	-41.28	Horizontal
2	159.759	-64.69	13.75	-50.94	-13.00	-37.94	Horizontal
3	240.144	-62.14	16.75	-45.39	-13.00	-32.39	Horizontal
4	43.233	-64.41	10.23	-54.18	-13.00	-41.18	Vertical
5	433.340	-63.87	17.75	-46.12	-13.00	-33.12	Vertical
6	498.730	-59.83	18.02	-41.81	-13.00	-28.81	Vertical
			RMC 12.2kbps	s_ Highest C	hannel		
1	159.759	-64.3	13.75	-50.55	-13.00	-37.55	Horizontal
2	240.144	-63.72	16.75	-46.97	-13.00	-33.97	Horizontal
3	679.435	-60.81	19.01	-41.80	-13.00	-28.80	Horizontal
4	43.233	-63.59	10.23	-53.36	-13.00	-40.36	Vertical
5	433.340	-62.92	17.75	-45.17	-13.00	-32.17	Vertical
6	498.730	-60.39	18.02	-42.37	-13.00	-29.37	Vertical

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The measurement Above 1GHz data as follows:

			WCD	MA Band II			
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
			RMC 12.2kbps	s_ Lowest Ch	annel		
1	3704.800	-68.01	31.09	-52.49	-13.00	-39.49	Horizontal
2	5557.200	-72.32	34.14	-55.57	-13.00	-42.57	Horizontal
3	3704.800	-67.85	33.13	-48.50	-13.00	-35.50	Vertical
4	5557.200	-63.25	32.66	-52.81	-13.00	-39.81	Vertical
			RMC 12.2kbp	s_ Middle Ch	annel		
1	3760.000	-59.12	31.09	-49.34	-13.00	-36.34	Horizontal
2	5640.000	-68.6	34.14	-54.85	-13.00	-41.85	Horizontal
3	3760.000	-63.47	33.13	-46.72	-13.00	-33.72	Vertical
4	5640.000	-62.31	32.66	-52.08	-13.00	-39.08	Vertical
			RMC 12.2kbps	s_ Highest Ch	annel		
1	3815.200	-66.74	31.09	-52.99	-13.00	-39.99	Horizontal
2	5722.800	-68.11	34.14	-51.36	-13.00	-38.36	Horizontal
3	3815.200	-69.37	33.13	-50.36	-13.00	-37.36	Vertical
4	5722.800	-61.63	32.66	-51.40	-13.00	-38.40	Vertical

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			WCDI	MA Band V			
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	7
			RMC 12.2kbps	s_ Lowest Ch	annel		
1	1652.800	-83.50	23.12	-60.38	-13.00	-47.38	Horizontal
2	2479.200	-85.56	28.47	-57.09	-13.00	-44.09	Horizontal
3	1652.800	-82.82	23.12	-59.70	-13.00	-46.70	Vertical
4	2479.200	-82.77	28.47	-54.30	-13.00	-41.30	Vertical
			RMC 12.2kbp	s_ Middle Ch	annel		
1	1672.800	-81.48	23.12	-58.36	-13.00	-45.36	Horizontal
2	2509.200	-83.20	28.47	-54.73	-13.00	-41.73	Horizontal
3	1672.800	-82.82	23.12	-59.70	-13.00	-46.70	Vertical
4	2509.200	-81.48	28.47	-53.01	-13.00	-40.01	Vertical
			RMC 12.2kbps	s_ Highest Ch	nannel		
1	1693.200	-80.33	23.12	-57.72	-13.00	-44.21	Horizontal
2	2539.800	-81.99	28.47	-53.61	-13.00	-40.52	Horizontal
3	1693.200	-80.6	23.12	-58.30	-13.00	-44.48	Vertical
4	2539.800	-80.49	28.47	-53.30	-13.00	-39.02	Vertical

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Correction factor	MA Band IV EIRP			
	Result	Limit	Margin	Ant. Pol.
(dB/m)	(dBm)	(dBm)	(dB)	7.11.11 0.11
RMC 12.2kbp	s_ Lowest Ch	annel		
32.11	-59.06	-13.00	-46.06	Horizontal
34.13	-55.70	-13.00	-42.70	Horizontal
32.11	-59.58	-13.00	-46.58	Vertical
34.13	-53.41	-13.00	-40.41	Vertical
RMC 12.2kbp	s_ Middle Ch	annel		
32.11	-57.87	-13.00	-44.87	Horizontal
34.13	-53.62	-13.00	-40.62	Horizontal
32.11	-58.47	-13.00	-45.47	Vertical
34.13	-52.83	-13.00	-39.83	Vertical
RMC 12.2kbp	s_ Highest Ch	nannel		
32.11	-57.21	-13.00	-44.21	Horizontal
34.13	-53.52	-13.00	-40.52	Horizontal
32.11	-57.48	-13.00	-44.48	Vertical
34.13	-52.02	-13.00	-39.02	Vertical
	(dB/m) RMC 12.2kbp 32.11 34.13 32.11 34.13 RMC 12.2kbp 32.11 34.13 32.11 34.13 RMC 12.2kbp 32.11 34.13 32.11 34.13	(dB/m) (dBm) RMC 12.2kbps_ Lowest Ch 32.11 -59.06 34.13 -55.70 32.11 -59.58 34.13 -53.41 RMC 12.2kbps_ Middle Ch 32.11 -57.87 34.13 -53.62 32.11 -58.47 34.13 -52.83 RMC 12.2kbps_ Highest Ch 32.11 -57.21 34.13 -53.52 32.11 -57.48	(dB/m) (dBm) (dBm) RMC 12.2kbps_ Lowest Channel 32.11 -59.06 -13.00 34.13 -55.70 -13.00 32.11 -59.58 -13.00 34.13 -53.41 -13.00 RMC 12.2kbps_ Middle Channel 32.11 -57.87 -13.00 34.13 -53.62 -13.00 32.11 -58.47 -13.00 34.13 -52.83 -13.00 RMC 12.2kbps_ Highest Channel 32.11 -57.21 -13.00 34.13 -53.52 -13.00 32.11 -57.48 -13.00	(dB/m) (dBm) (dBm) (dB) RMC 12.2kbps_ Lowest Channel 32.11 -59.06 -13.00 -46.06 34.13 -55.70 -13.00 -42.70 32.11 -59.58 -13.00 -46.58 34.13 -53.41 -13.00 -40.41 RMC 12.2kbps_ Middle Channel 32.11 -57.87 -13.00 -44.87 34.13 -53.62 -13.00 -45.47 34.13 -52.83 -13.00 -39.83 RMC 12.2kbps_ Highest Channel 32.11 -57.21 -13.00 -44.21 34.13 -53.52 -13.00 -44.21 34.13 -57.48 -13.00 -44.48

Note:

- 1.Correct Factor = Antenna Factor + Cable Loss Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
- 2.Result = Reading + Correct Factor.
- 3.Margin = Result Limit
- 4.he device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test. Subsequently, only the worst case emissions are reported.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Residual Any report having not been stamped by the Bedicated Residual Any Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written appropriation of AGC where the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



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13. FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

13.1 PROVISIONS APPLICABLE

13.1.1 For Hand carried battery powered equipment

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -20°C to +50°C in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency. For Part 24 and Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

13.1.2 For equipment powered by primary supply voltage

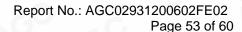
- 1 The carrier frequency of the transmitter is measured at room temperature (20°C to provide a
- 2 reference).
- 3 The equipment is turned on in a "standby" condition for fifteen minutes before applying power to
- 4 the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 5 Frequency measurements are made at 10°C intervals ranging from -20°C to +50°C. A period of at
- 6 least one half-hour is provided to allow stabilization of the equipment at each temperature level.

13.2 MEASUREMENT METHOD

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

- 7 Measure the carrier frequency at room temperature.
- 8 Subject the EUT to overnight soak at -20°C. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on channel 20175 for LTE band 4 measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 9 Repeat the above measurements at 10℃ increments from -20℃ to +50℃. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 10 Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from

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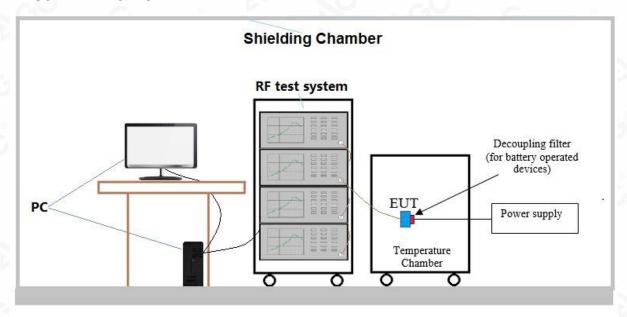




minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.

- 11 Subject the EUT to overnight soak at +50°C.
- 12 With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 13 Repeat the above measurements at 10°C increments from +50°C to -20°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 14 At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

13.3 MEASUREMENT SETUP



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13.4 MEASUREMENT RESULT

Test Results

Frequency Error vs. Voltage:

Frequency Error vs. Voltage:

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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	verdict
0			TN	VL	-3.57	-0.001927	±2.5	PASS
60	8	LCH	TN	VN	1.45	0.000783	±2.5	PASS
10		a,C	TN	VH	-6.00	-0.003239	±2.5	PASS
0			TN	VL	-2.55	-0.001356	±2.5	PASS
WCDMA850	UMTS	MCH	TN	VN	-0.67	-0.000356	±2.5	PASS
10	. (1)	9	TN	VH	-4.36	-0.002319	±2.5	PASS
0			TN	VL	-1.43	-0.000750	±2.5	PASS
a.C	8	HCH	TN	VN	-3.88	-0.002034	±2.5	PASS
	60	-0	TN	∘VH	-4.85	-0.002542	±2.5	PASS

Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Verdict
Mode	Channel	Temp.	Volt.	(Hz)	(ppm)	
700		TN	VL	4.58	0.002674	PASS
@	LCH	TN	VN	2.26	0.001320	PASS
-C	@	TN	VH	-0.98	-0.000572	PASS
	10°	TN	VL	4.53	0.002615	PASS
UMTS	MCH	TN	VN	0.64	0.000369	PASS
-C	(6)	TN	VH	6.56	0.003786	PASS
	G	TN	VL	-4.35	-0.002482	PASS
®	HCH	TN	VN	-4.53	-0.002585	PASS
	8	TN	VH	-5.55	-0.003167	PASS
	Mode	Mode Channel LCH UMTS MCH	Mode Channel Temp. LCH TN TN TN TN TN TN TN TN TN TN TN HCH TN	Mode Channel Temp. Volt. LCH TN VL TN VN TN VH TN VL TN VL UMTS MCH TN VN TN VH TN VL HCH TN VN	Mode Channel Temp. Volt. (Hz) LCH TN VL 4.58 TN VN 2.26 TN VH -0.98 TN VL 4.53 UMTS MCH TN VN 0.64 TN VH 6.56 TN VL -4.35 HCH TN VN -4.53	Mode Channel Temp. Volt. (Hz) (ppm) LCH TN VL 4.58 0.002674 TN VN 2.26 0.001320 TN VH -0.98 -0.000572 TN VL 4.53 0.002615 TN VN 0.64 0.000369 TN VH 6.56 0.003786 TN VL -4.35 -0.002482 HCH TN VN -4.53 -0.002585

Note: Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	Verdict
	G	C	TN	○ VL	-6.33	-0.003417	PASS
®		LCH	TN	VN	1.57	0.000848	PASS
- GO	8	8	TN	VH	-7.78	-0.004200	PASS
		z.C	TN	VL	1.34	0.000713	PASS
WCDMA1900	UMTS	MCH	TN	VN	-0.47	-0.000250	PASS
00	(8)	©	TN	VH	2.96	0.001574	PASS
		G	TN	VL	0.08	0.000042	PASS
0		HCH	TN	VN	-4.35	-0.002280	PASS
9 _ 6	@		TN	VH	1.69	0.000886	PASS

Note: Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very samll. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted duing the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



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Frequency Error vs. Temperature:

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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdic
Band	Mode	Channel	Volt.	Tem. (°C)	(Hz)	(ppm)	(ppm)	verdic
©			VN	-20	0.03	0.000036	±2.5	PASS
	0		VN	-10	0.69	0.000835	±2.5	PASS
	GU		VN	0	-1.28	-0.001549	±2.5	PASS
MODMANTO	LIMTO	1.011	VN	10	1.43	0.001730	±2.5	PASS
WCDMA850	UMTS	LCH	VN	20	-2.15	-0.002602	±2.5	PASS
		-C	VN	30	1.50	0.001815	±2.5	PASS
			VN	40	-7.42	-0.008979	±2.5	PASS
		®	VN	50	0.90	0.001089	±2.5	PASS
10	. 0	0	VN	-20	-1.05	-0.001271	±2.5	PASS
		6 MCH	VN	-10	-1.30	-0.001573	±2.5	PASS
	@		VN	0	-4.30	-0.005141	±2.5	PASS
MODMAGEO	LIMTC		VN	10	0.26	0.000311	±2.5	PASS
WCDMA850	UMTS		VN	20	0.06	0.000072	±2.5	PASS
			VN	30	-3.52	-0.004209	±2.5	PASS
			VN ®	40	-2.46	-0.002941	±2.5	PASS
			VN	50	-2.37	-0.002834	±2.5	PASS
		·	VN	-20	-1.40	-0.001674	±2.5	PASS
			VN	-10	-7.32	-0.008646	±2.5	PASS
WCDMA850		- C	VN	0	-5.00	-0.005906	±2.5	PASS
	LIMTO	HOLL	VN	10	-4.61	-0.005445	±2.5	PASS
	UMTS	HCH	VN	20	-6.79	-0.008020	±2.5	PASS
		100	VN	30	-6.29	-0.007430	±2.5	PASS
	@		VN	40	-4.07	-0.004807	±2.5	PASS
30 -0	C	8	VN	50	-2.30	-0.002717	±2.5	PASS

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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	\/a = dia
Band	Mode	Channel	Volt.	Tem. (°C)	(Hz)	(ppm)	Verdict
	GU	-C	VN	-20	3.63	0.002120	PASS
			VN	-10	8.42	0.004917	PASS
	©		VN	0	1.19	0.000695	PASS
MODMA 4700	LIMTO	1.011	VN	10	8.10	0.004730	PASS
WCDMA1700	UMTS	LCH	VN	20	3.88	0.002266	PASS
		®	VN	30	4.75	0.002774	PASS
)	VN	40	0.09	0.000053	PASS
		(G)	VN	50	3.95	0.002307	PASS
-6	8	MCH	VN	-20	-1.43	-0.000825	PASS
	c ₂ C		VN	-10	1.19	0.000687	PASS
			VN	0	-2.35	-0.001356	PASS
MODMA 4700	UMTS		VN	10	3.25	0.001876	PASS
WCDMA1700			VN	20	-0.34	-0.000196	PASS
			VN	30	0.40	0.000231	PASS
			VN	40	1.56	0.000900	PASS
	- 0		∘ VN	50	1.85	0.001068	PASS
©	10		VN	-20	-11.92	-0.006802	PASS
	(8)		VN	-10	-9.00	-0.005136	PASS
	a.C	8	VN	0	-11.03	-0.006294	PASS
WODM 4700	LIMATO	HOLL	VN	10	-1.53	-0.000873	PASS
WCDMA1700	UMTS	HCH	VN	20	-5.08	-0.002899	PASS
	C	8	VN	30	-2.37	-0.001352	PASS
		30	VN	40	-7.84	-0.004474	PASS
			VN	50	-4.26	-0.002431	PASS

Note: Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	\/ordiot
Band	Mode	Channel	Volt.	Tem. (°C)	(Hz)	(ppm)	Verdict
WCDMA1900	UMTS	LCH	VN	-20	1.13	0.000610	PASS
			VN	-10	-1.11	-0.000599	PASS
			VN	0	-1.86	-0.001004	PASS
			VN	10	-0.78	-0.000421	PASS
			VN	20	0 1.11	0.000599	PASS
			VN	30	0.67	0.000362	PASS
			[®] VN	40	4.52	0.002440	PASS
			VN	50	6.09	0.003288	PASS
WCDMA1900	UMTS	MCH	VN	-20	-0.64	-0.000345	PASS
			VN	-10	-2.06	-0.001112	PASS
			VN	0	3.77	0.002005	PASS
			VN	10	-0.82	-0.000436	PASS
			VN	20	0.99	0.000527	PASS
			VN	30	2.15	0.001144	PASS
			VN	40	-3.20	-0.001702	PASS
			∘ VN	50	-0.56	-0.000298	PASS
WCDMA1900	UMTS	НСН	VN	-20	-2.24	-0.001191	PASS
			VN	-10	-5.71	-0.003037	PASS
			VN	0	-4.62	-0.002422	PASS
			VN	10	-1.08	-0.000566	PASS
			VN	20	-1.46	-0.000765	PASS
			VN	30	-3.89	-0.002039	PASS
			VN	40	1.17	0.000613	PASS
			VN	50	1.02	0.000535	PASS

Note: Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED SPURIOUS EMISSION



RADIATED SPURIOUS ABOVE 1G EMISSION



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APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC02931200602AP01

----END OF REPORT----

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- 2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
- 5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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- 8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

/Inspection

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