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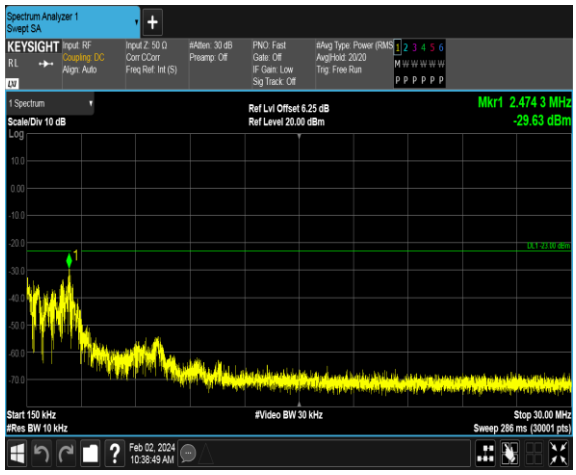	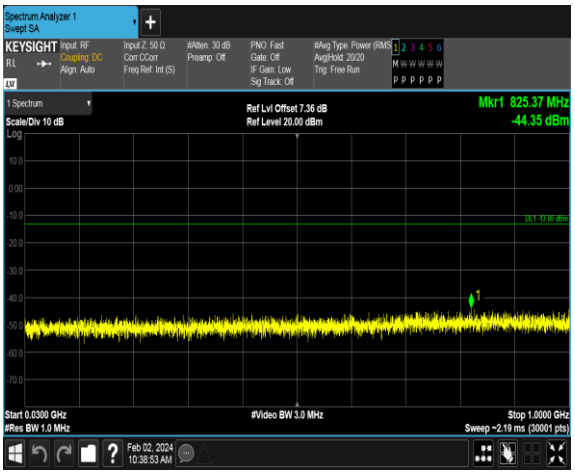
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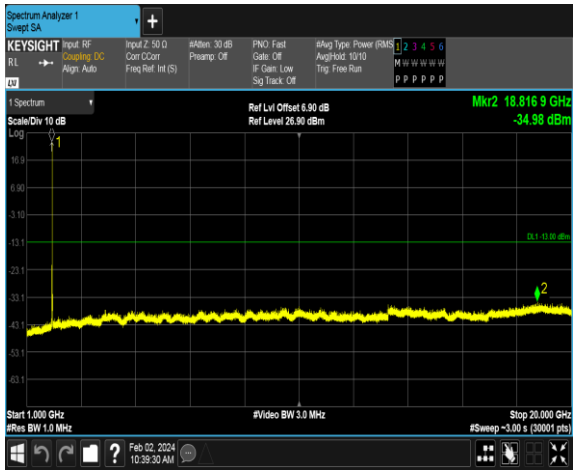	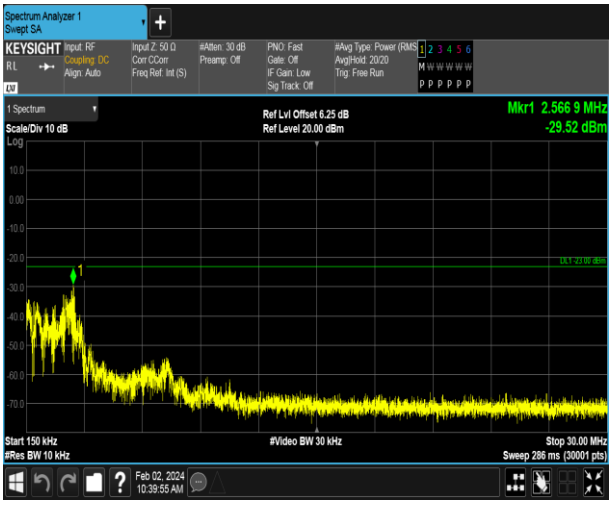
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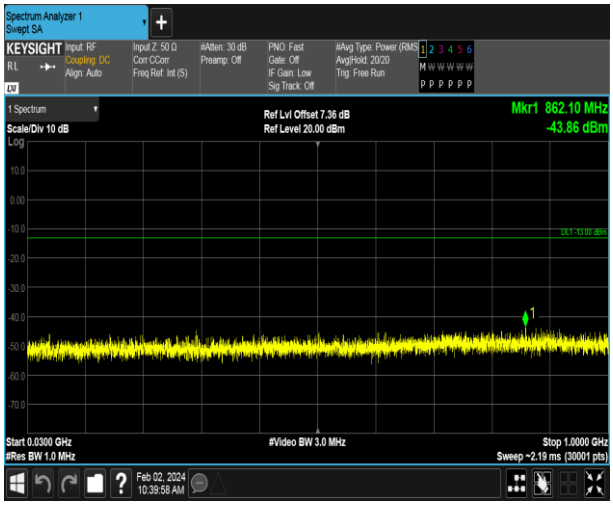
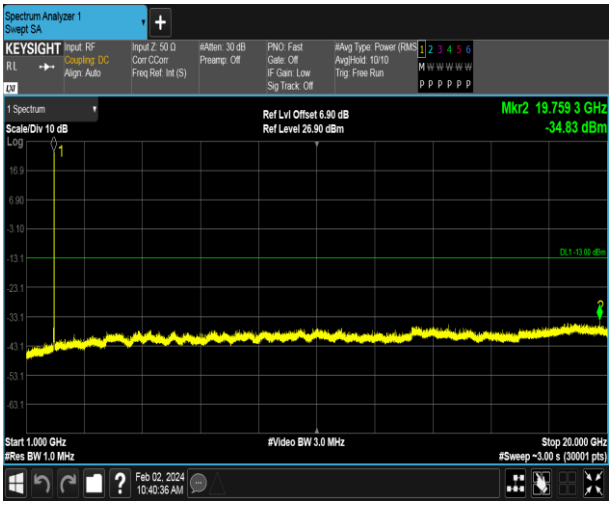
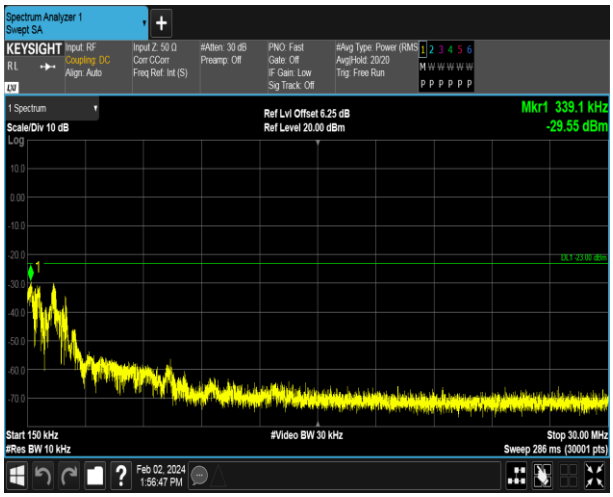
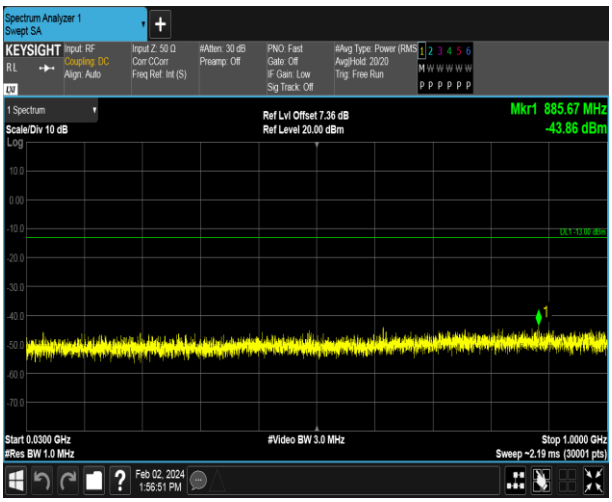
	

WCDMA 1700_RMC 12.2kps_LCH	WCDMA 1700_RMC 12.2kps_LCH
	
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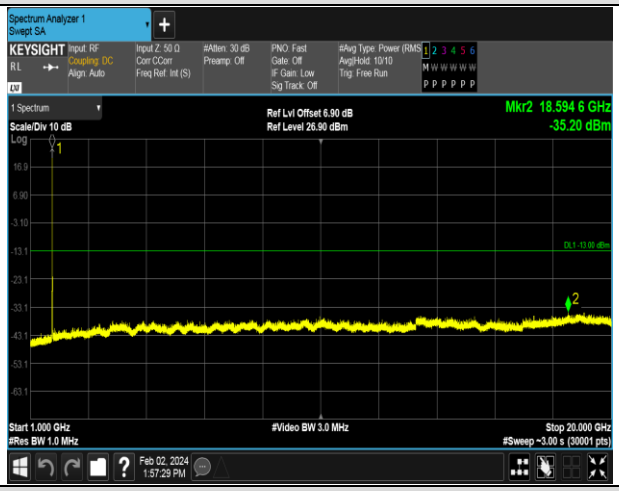
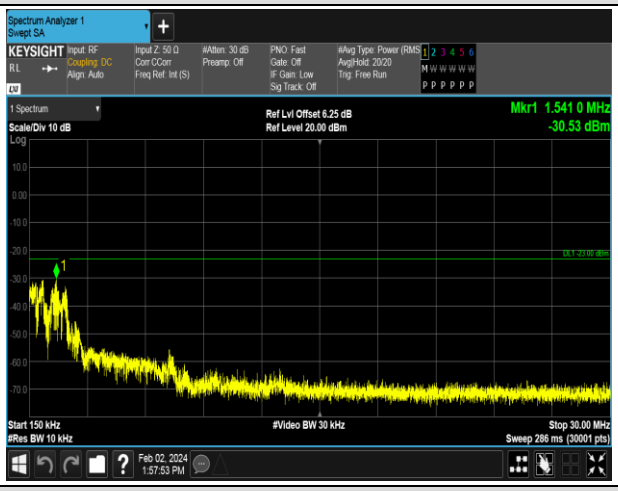
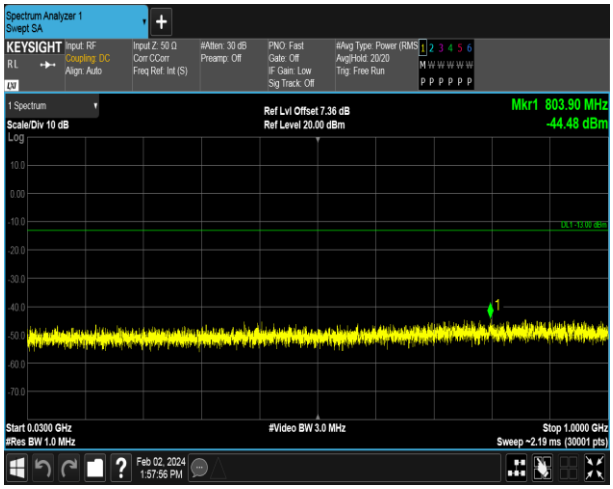
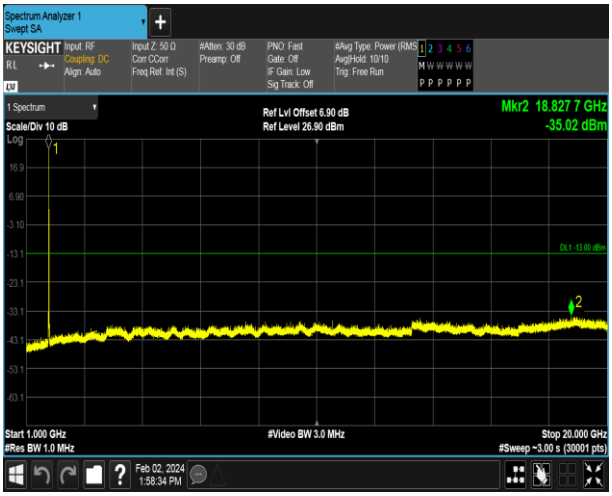
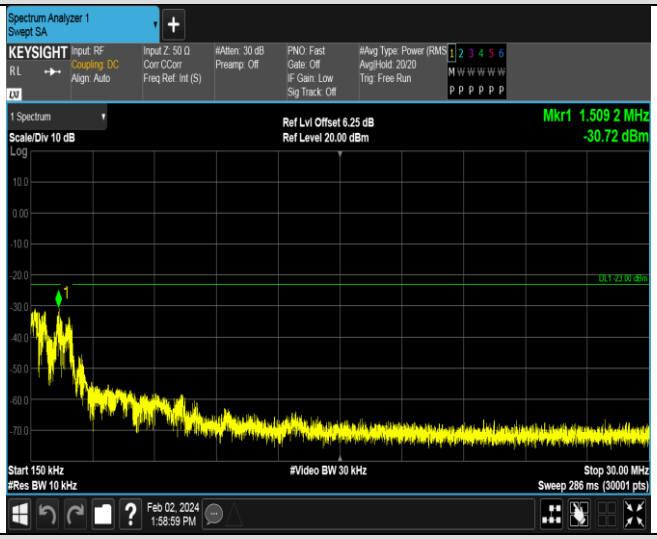
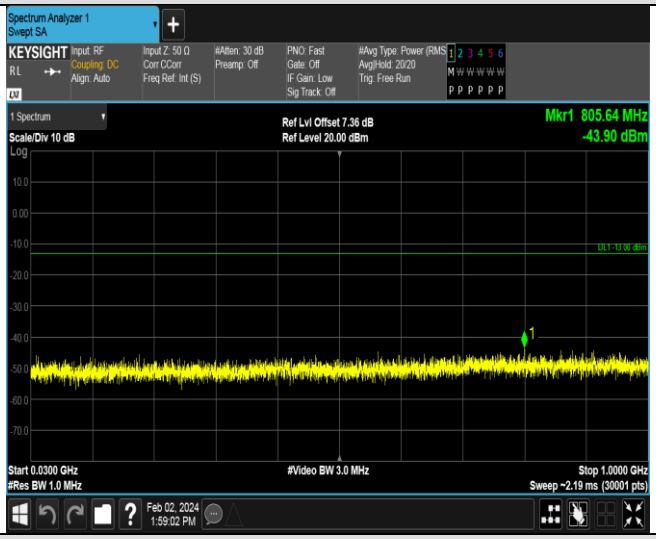
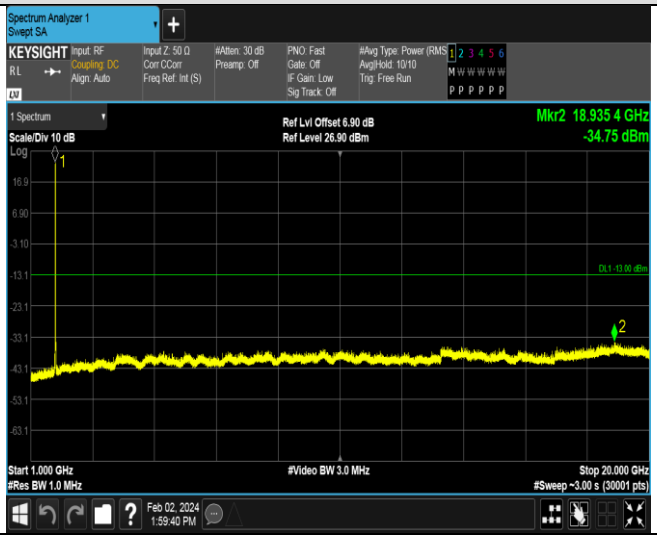
	
WCDMA 1700_RMC 12.2kps_MCH	**WCDMA 1700_RMC 12.2kps_MCH**
	

WCDMA 1700_RMC 12.2kps_HCH	WCDMA 1700_RMC 12.2kps_HCH
	
WCDMA 1700_RMC 12.2kps_HCH	
	

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.

13. Radiated Spurious Emission

13.1. 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.

13.2. Measurement Procedure

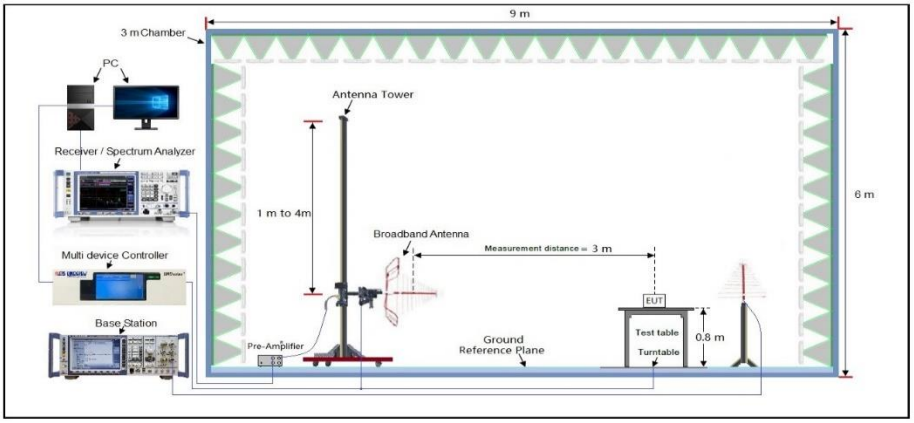
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated 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.

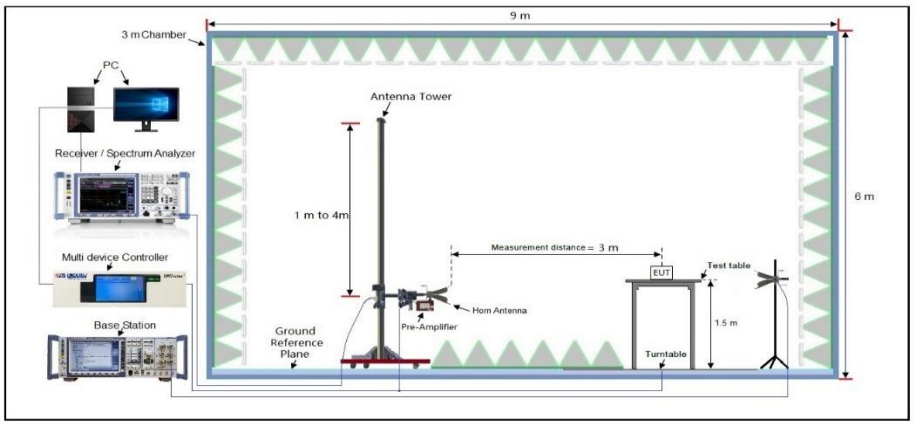
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For 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.
12. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.
13. 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)
14. Where: P_{gis} the generator output power into the substitution antenna.
15. If the Fundamental frequency is below 1GHz, RF output power has been converted to EIRP.
    - ✧ EIRP (dBm) = ERP (dBm) + 2.15

13.3. Measurement Setup

Radiated Emissions 30MHz to 1GHz Test setup



Radiated Emissions Above 1GHz Test setup



13.4 Measurement Result

The model name of AGM_PAD_P2

The measurement Below 1GHz data as follows:

GSM 850							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	155.051	-65.57	15.52	-50.05	-13.00	-37.05	Horizontal
2	240.366	-62.44	16.75	-45.69	-13.00	-32.69	Horizontal
3	754.128	-59.19	19.35	-39.84	-13.00	-26.84	Horizontal
4	46.965	-64.89	10.44	-54.45	-13.00	-41.45	Vertical
5	433.440	-61.79	17.75	-44.04	-13.00	-31.04	Vertical
6	502.127	-58.58	18.66	-39.92	-13.00	-26.92	Vertical
GSM_ Middle Channel							
1	27.417	-62.87	9.78	-53.09	-13.00	-40.09	Horizontal
2	160.284	-62.70	13.75	-48.95	-13.00	-35.95	Horizontal
3	240.196	-60.94	16.75	-44.19	-13.00	-31.19	Horizontal
4	43.021	-63.47	10.23	-53.24	-13.00	-40.24	Vertical
5	433.561	-61.79	17.75	-44.04	-13.00	-31.04	Vertical
6	498.337	-58.98	18.02	-40.96	-13.00	-27.96	Vertical
GSM_ Highest Channel							
1	182.336	-63.72	13.75	-49.97	-13.00	-36.97	Horizontal
2	240.441	-62.38	16.75	-45.63	-13.00	-32.63	Horizontal
3	679.585	-58.09	19.01	-39.08	-13.00	-26.08	Horizontal
4	43.699	-61.53	10.23	-51.30	-13.00	-38.30	Vertical
5	433.471	-60.21	17.75	-42.46	-13.00	-29.46	Vertical
6	498.553	-57.74	18.02	-39.72	-13.00	-26.72	Vertical

PCS 1900							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	134.125	-64.95	15.52	-49.43	-13.00	-36.43	Horizontal
2	240.965	-60.82	16.75	-44.07	-13.00	-31.07	Horizontal
3	754.741	-57.81	19.35	-38.46	-13.00	-25.46	Horizontal
4	46.528	-63.77	10.44	-53.33	-13.00	-40.33	Vertical
5	433.362	-59.07	17.75	-41.32	-13.00	-28.32	Vertical
6	502.247	-57.78	18.66	-39.12	-13.00	-26.12	Vertical
GSM_ Middle Channel							
1	31.174	-62.91	9.78	-53.13	-13.00	-40.13	Horizontal
2	159.005	-63.97	13.75	-50.22	-13.00	-37.22	Horizontal
3	240.152	-61.58	16.75	-44.83	-13.00	-31.83	Horizontal
4	43.236	-63.76	10.23	-53.53	-13.00	-40.53	Vertical
5	433.345	-62.47	17.75	-44.72	-13.00	-31.72	Vertical
6	498.741	-59.06	18.02	-41.04	-13.00	-28.04	Vertical
GSM_ Highest Channel							
1	159.288	-62.97	13.75	-49.22	-13.00	-36.22	Horizontal
2	240.964	-61.28	16.75	-44.53	-13.00	-31.53	Horizontal
3	679.010	-56.55	19.01	-37.54	-13.00	-24.54	Horizontal
4	43.223	-62.38	10.23	-52.15	-13.00	-39.15	Vertical
5	433.349	-59.42	17.75	-41.67	-13.00	-28.67	Vertical
6	498.755	-55.21	18.02	-37.19	-13.00	-24.19	Vertical

WCDMA Band II							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	180.001	-67.61	15.52	-52.09	-13.00	-39.09	Horizontal
2	240.274	-63.93	16.75	-47.18	-13.00	-34.18	Horizontal
3	754.056	-60.12	19.35	-40.77	-13.00	-27.77	Horizontal
4	46.362	-66.06	10.44	-55.62	-13.00	-42.62	Vertical
5	433.421	-62.22	17.75	-44.47	-13.00	-31.47	Vertical
6	502.695	-60.25	18.66	-41.59	-13.00	-28.59	Vertical
RMC 12.2kbps_ Middle Channel							
1	35.365	-61.54	9.78	-51.76	-13.00	-38.76	Horizontal
2	155.171	-60.76	13.75	-47.01	-13.00	-34.01	Horizontal
3	245.362	-56.70	16.75	-39.95	-13.00	-26.95	Horizontal
4	43.061	-65.36	10.23	-55.13	-13.00	-42.13	Vertical
5	433.221	-61.56	17.75	-43.81	-13.00	-30.81	Vertical
6	498.668	-59.80	18.02	-41.78	-13.00	-28.78	Vertical
RMC 12.2kbps_ Highest Channel							
1	155.759	-62.51	13.75	-48.76	-13.00	-35.76	Horizontal
2	249.144	-61.63	16.75	-44.88	-13.00	-31.88	Horizontal
3	621.435	-57.29	19.01	-38.28	-13.00	-25.28	Horizontal
4	52.233	-62.54	10.23	-52.31	-13.00	-39.31	Vertical
5	501.340	-58.57	17.75	-40.82	-13.00	-27.82	Vertical
6	521.730	-56.71	18.02	-38.69	-13.00	-25.69	Vertical

WCDMA Band IV							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	123.149	-68.72	15.52	-53.20	-13.00	-40.20	Horizontal
2	306.741	-66.86	16.75	-50.11	-13.00	-37.11	Horizontal
3	850.116	-64.28	19.35	-44.93	-13.00	-31.93	Horizontal
4	46.025	-63.87	10.44	-53.43	-13.00	-40.43	Vertical
5	433.669	-62.41	17.75	-44.66	-13.00	-31.66	Vertical
6	502.127	-60.04	18.66	-41.38	-13.00	-28.38	Vertical
RMC 12.2kbps_ Middle Channel							
1	40.152	-59.85	9.78	-50.07	-13.00	-37.07	Horizontal
2	187.996	-59.25	13.75	-45.50	-13.00	-32.50	Horizontal
3	240.251	-55.49	16.75	-38.74	-13.00	-25.74	Horizontal
4	43.642	-61.55	10.23	-51.32	-13.00	-38.32	Vertical
5	433.364	-60.34	17.75	-42.59	-13.00	-29.59	Vertical
6	498.551	-63.98	18.02	-45.96	-13.00	-32.96	Vertical
RMC 12.2kbps_ Highest Channel							
1	180.145	-67.20	13.75	-53.45	-13.00	-40.45	Horizontal
2	252.336	-67.08	16.75	-50.33	-13.00	-37.33	Horizontal
3	601.251	-63.80	19.01	-44.79	-13.00	-31.79	Horizontal
4	46.330	-63.72	10.23	-53.49	-13.00	-40.49	Vertical
5	450.325	-62.59	17.75	-44.84	-13.00	-31.84	Vertical
6	503.312	-69.43	18.02	-51.41	-13.00	-38.41	Vertical

WCDMA Band V							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	111.251	-65.61	15.52	-50.09	-13.00	-37.09	Horizontal
2	380.144	-61.82	16.75	-45.07	-13.00	-32.07	Horizontal
3	714.963	-59.79	19.35	-40.44	-13.00	-27.44	Horizontal
4	52.708	-63.23	10.44	-52.79	-13.00	-39.79	Vertical
5	511.340	-62.06	17.75	-44.31	-13.00	-31.31	Vertical
6	603.247	-59.62	18.66	-40.96	-13.00	-27.96	Vertical
RMC 12.2kbps_ Middle Channel							
1	28.735	-59.84	9.78	-50.06	-13.00	-37.06	Horizontal
2	114.759	-58.92	13.75	-45.17	-13.00	-32.17	Horizontal
3	269.144	-56.82	16.75	-40.07	-13.00	-27.07	Horizontal
4	46.233	-63.28	10.23	-53.05	-13.00	-40.05	Vertical
5	480.340	-62.10	17.75	-44.35	-13.00	-31.35	Vertical
6	558.730	-63.86	18.02	-45.84	-13.00	-32.84	Vertical
RMC 12.2kbps_ Highest Channel							
1	184.759	-63.56	13.75	-49.81	-13.00	-36.81	Horizontal
2	263.144	-62.23	16.75	-45.48	-13.00	-32.48	Horizontal
3	521.435	-59.31	19.01	-40.30	-13.00	-27.30	Horizontal
4	53.233	-63.08	10.23	-52.85	-13.00	-39.85	Vertical
5	447.340	-62.14	17.75	-44.39	-13.00	-31.39	Vertical
6	569.730	-64.28	18.02	-46.26	-13.00	-33.26	Vertical

The measurement Above 1GHz data as follows:

GSM 850							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	1648.400	-87.36	23.50	-63.86	-13.00	-50.86	Horizontal
2	2472.600	-88.68	29.47	-59.21	-13.00	-46.21	Horizontal
3	1648.400	-87.10	23.72	-63.38	-13.00	-50.38	Vertical
4	2472.600	-84.63	29.47	-55.16	-13.00	-42.16	Vertical
GSM_ Middle Channel							
1	1673.200	-88.54	23.50	-65.04	-13.00	-52.04	Horizontal
2	2509.800	-90.54	29.47	-61.07	-13.00	-48.07	Horizontal
3	1673.200	-88.24	23.72	-64.52	-13.00	-51.52	Vertical
4	2509.800	-92.43	29.47	-62.96	-13.00	-49.96	Vertical
GSM_ Highest Channel							
1	1697.600	-89.77	23.50	-66.27	-13.00	-53.27	Horizontal
2	2546.400	-93.72	29.47	-64.25	-13.00	-51.25	Horizontal
3	1697.600	-87.14	23.72	-63.42	-13.00	-50.42	Vertical
4	2546.400	-87.71	29.47	-58.24	-13.00	-45.24	Vertical

PCS 1900							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	3700.400	-90.94	32.11	-58.83	-13.00	-45.83	Horizontal
2	5550.600	-77.19	33.21	-43.98	-13.00	-30.98	Horizontal
3	3700.400	-91.63	32.09	-59.54	-13.00	-46.54	Vertical
4	5550.600	-85.01	34.03	-50.98	-13.00	-37.98	Vertical
GSM_ Middle Channel							
1	3760.000	-78.04	32.11	-45.93	-13.00	-32.93	Horizontal
2	5640.000	-77.74	33.21	-44.53	-13.00	-31.53	Horizontal
3	3760.000	-87.96	32.09	-55.87	-13.00	-42.87	Vertical
4	5640.000	-85.80	34.03	-51.77	-13.00	-38.77	Vertical
GSM_ Highest Channel							
1	3819.600	-85.48	32.11	-53.37	-13.00	-40.37	Horizontal
2	5729.400	-88.40	33.21	-55.19	-13.00	-42.19	Horizontal
3	3819.600	-88.54	32.09	-56.45	-13.00	-43.45	Vertical
4	5729.400	-92.93	34.03	-58.90	-13.00	-45.90	Vertical

WCDMA Band II							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	3704.800	-83.79	31.09	-52.70	-13.00	-39.70	Horizontal
2	5557.200	-89.01	34.14	-54.87	-13.00	-41.87	Horizontal
3	3704.800	-81.93	33.13	-48.80	-13.00	-35.80	Vertical
4	5557.200	-87.89	32.66	-55.23	-13.00	-42.23	Vertical
RMC 12.2kbps_ Middle Channel							
1	3760.000	-84.00	31.09	-52.91	-13.00	-39.91	Horizontal
2	5640.000	-90.12	34.14	-55.98	-13.00	-42.98	Horizontal
3	3760.000	-83.87	33.13	-50.74	-13.00	-37.74	Vertical
4	5640.000	-80.78	32.66	-48.12	-13.00	-35.12	Vertical
RMC 12.2kbps_ Highest Channel							
1	3815.200	-81.12	31.09	-50.03	-13.00	-37.03	Horizontal
2	5722.800	-83.99	34.14	-49.85	-13.00	-36.85	Horizontal
3	3815.200	-81.47	33.13	-48.34	-13.00	-35.34	Vertical
4	5722.800	-84.20	32.66	-51.54	-13.00	-38.54	Vertical

WCDMA Band IV							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	3424.800	-91.14	32.11	-59.03	-13.00	-46.03	Horizontal
2	5137.200	-88.93	33.21	-55.72	-13.00	-42.72	Horizontal
3	3424.800	-87.61	32.09	-55.52	-13.00	-42.52	Vertical
4	5137.200	-92.54	34.03	-58.51	-13.00	-45.51	Vertical
RMC 12.2kbps_ Middle Channel							
1	3464.800	-90.98	32.11	-58.87	-13.00	-45.87	Horizontal
2	5197.200	-89.00	33.21	-55.79	-13.00	-42.79	Horizontal
3	3464.800	-92.34	32.09	-60.25	-13.00	-47.25	Vertical
4	5197.200	-92.86	34.03	-58.83	-13.00	-45.83	Vertical
RMC 12.2kbps_ Highest Channel							
1	3505.200	-87.81	32.11	-55.70	-13.00	-42.70	Horizontal
2	5257.800	-86.80	33.21	-53.59	-13.00	-40.59	Horizontal
3	3505.200	-87.40	32.09	-55.31	-13.00	-42.31	Vertical
4	5257.800	-88.16	34.03	-54.13	-13.00	-41.13	Vertical

WCDMA Band V							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	1652.800	-83.57	23.12	-60.45	-13.00	-47.45	Horizontal
2	2479.200	-85.89	28.47	-57.42	-13.00	-44.42	Horizontal
3	1652.800	-83.51	23.12	-60.39	-13.00	-47.39	Vertical
4	2479.200	-82.58	28.47	-54.11	-13.00	-41.11	Vertical
RMC 12.2kbps_ Middle Channel							
1	1672.800	-81.64	23.12	-58.52	-13.00	-45.52	Horizontal
2	2509.200	-83.64	28.47	-55.17	-13.00	-42.17	Horizontal
3	1672.800	-83.65	23.12	-60.53	-13.00	-47.53	Vertical
4	2509.200	-81.94	28.47	-53.47	-13.00	-40.47	Vertical
RMC 12.2kbps_ Highest Channel							
1	1693.200	-80.81	23.12	-57.69	-13.00	-44.69	Horizontal
2	2539.800	-81.70	28.47	-53.23	-13.00	-40.23	Horizontal
3	1693.200	-80.53	23.12	-57.41	-13.00	-44.41	Vertical
4	2539.800	-80.82	28.47	-52.35	-13.00	-39.35	Vertical

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. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test. Subsequently, only the worst case emissions are reported.

The model name of AGM_PAD_P2W

The measurement Below 1GHz data as follows:

GSM 850							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	155.051	-65.18	15.52	-49.66	-13.00	-36.66	Horizontal
2	240.366	-62.53	16.75	-45.78	-13.00	-32.78	Horizontal
3	754.128	-59.05	19.35	-39.70	-13.00	-26.70	Horizontal
4	46.965	-65.04	10.44	-54.60	-13.00	-41.60	Vertical
5	433.440	-61.42	17.75	-43.67	-13.00	-30.67	Vertical
6	502.127	-58.94	18.66	-40.28	-13.00	-27.28	Vertical
GSM_ Middle Channel							
1	27.417	-63.13	9.78	-53.35	-13.00	-40.35	Horizontal
2	160.284	-62.91	13.75	-49.16	-13.00	-36.16	Horizontal
3	240.196	-60.58	16.75	-43.83	-13.00	-30.83	Horizontal
4	43.021	-63.80	10.23	-53.57	-13.00	-40.57	Vertical
5	433.561	-61.32	17.75	-43.57	-13.00	-30.57	Vertical
6	498.337	-58.99	18.02	-40.97	-13.00	-27.97	Vertical
GSM_ Highest Channel							
1	182.336	-63.94	13.75	-50.19	-13.00	-37.19	Horizontal
2	240.441	-62.67	16.75	-45.92	-13.00	-32.92	Horizontal
3	679.585	-58.03	19.01	-39.02	-13.00	-26.02	Horizontal
4	43.699	-61.90	10.23	-51.67	-13.00	-38.67	Vertical
5	433.471	-59.96	17.75	-42.21	-13.00	-29.21	Vertical
6	498.553	-58.23	18.02	-40.21	-13.00	-27.21	Vertical

PCS 1900							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	134.125	-64.94	15.52	-49.42	-13.00	-36.42	Horizontal
2	240.965	-61.30	16.75	-44.55	-13.00	-31.55	Horizontal
3	754.741	-57.59	19.35	-38.24	-13.00	-25.24	Horizontal
4	46.528	-63.92	10.44	-53.48	-13.00	-40.48	Vertical
5	433.362	-59.30	17.75	-41.55	-13.00	-28.55	Vertical
6	502.247	-57.44	18.66	-38.78	-13.00	-25.78	Vertical
GSM_ Middle Channel							
1	31.174	-62.62	9.78	-52.84	-13.00	-39.84	Horizontal
2	159.005	-63.71	13.75	-49.96	-13.00	-36.96	Horizontal
3	240.152	-61.87	16.75	-45.12	-13.00	-32.12	Horizontal
4	43.236	-64.23	10.23	-54.00	-13.00	-41.00	Vertical
5	433.345	-62.03	17.75	-44.28	-13.00	-31.28	Vertical
6	498.741	-59.24	18.02	-41.22	-13.00	-28.22	Vertical
GSM_ Highest Channel							
1	159.288	-60.80	13.75	-47.05	-13.00	-34.05	Horizontal
2	240.964	-60.43	16.75	-43.68	-13.00	-30.68	Horizontal
3	679.010	-56.23	19.01	-37.22	-13.00	-24.22	Horizontal
4	43.223	-62.16	10.23	-51.93	-13.00	-38.93	Vertical
5	433.349	-59.08	17.75	-41.33	-13.00	-28.33	Vertical
6	498.755	-53.75	18.02	-35.73	-13.00	-22.73	Vertical

WCDMA Band II							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	180.001	-67.99	15.52	-52.47	-13.00	-39.47	Horizontal
2	240.274	-64.18	16.75	-47.43	-13.00	-34.43	Horizontal
3	754.056	-60.30	19.35	-40.95	-13.00	-27.95	Horizontal
4	46.362	-67.23	10.44	-56.79	-13.00	-43.79	Vertical
5	433.421	-63.54	17.75	-45.79	-13.00	-32.79	Vertical
6	502.695	-60.64	18.66	-41.98	-13.00	-28.98	Vertical
RMC 12.2kbps_ Middle Channel							
1	35.365	-61.65	9.78	-51.87	-13.00	-38.87	Horizontal
2	155.171	-61.35	13.75	-47.60	-13.00	-34.60	Horizontal
3	245.362	-56.93	16.75	-40.18	-13.00	-27.18	Horizontal
4	43.061	-66.01	10.23	-55.78	-13.00	-42.78	Vertical
5	433.221	-61.69	17.75	-43.94	-13.00	-30.94	Vertical
6	498.668	-60.70	18.02	-42.68	-13.00	-29.68	Vertical
RMC 12.2kbps_ Highest Channel							
1	155.759	-62.76	13.75	-49.01	-13.00	-36.01	Horizontal
2	249.144	-62.59	16.75	-45.84	-13.00	-32.84	Horizontal
3	621.435	-58.62	19.01	-39.61	-13.00	-26.61	Horizontal
4	52.233	-63.51	10.23	-53.28	-13.00	-40.28	Vertical
5	501.340	-58.87	17.75	-41.12	-13.00	-28.12	Vertical
6	521.730	-57.55	18.02	-39.53	-13.00	-26.53	Vertical

WCDMA Band IV							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	123.149	-68.45	15.52	-52.93	-13.00	-39.93	Horizontal
2	306.741	-67.15	16.75	-50.40	-13.00	-37.40	Horizontal
3	850.116	-64.11	19.35	-44.76	-13.00	-31.76	Horizontal
4	46.025	-64.02	10.44	-53.58	-13.00	-40.58	Vertical
5	433.669	-62.69	17.75	-44.94	-13.00	-31.94	Vertical
6	502.127	-59.69	18.66	-41.03	-13.00	-28.03	Vertical
RMC 12.2kbps_ Middle Channel							
1	40.152	-59.54	9.78	-49.76	-13.00	-36.76	Horizontal
2	187.996	-59.19	13.75	-45.44	-13.00	-32.44	Horizontal
3	240.251	-55.85	16.75	-39.10	-13.00	-26.10	Horizontal
4	43.642	-61.68	10.23	-51.45	-13.00	-38.45	Vertical
5	433.364	-60.12	17.75	-42.37	-13.00	-29.37	Vertical
6	498.551	-64.30	18.02	-46.28	-13.00	-33.28	Vertical
RMC 12.2kbps_ Highest Channel							
1	180.145	-66.89	13.75	-53.14	-13.00	-40.14	Horizontal
2	252.336	-67.32	16.75	-50.57	-13.00	-37.57	Horizontal
3	601.251	-63.59	19.01	-44.58	-13.00	-31.58	Horizontal
4	46.330	-63.88	10.23	-53.65	-13.00	-40.65	Vertical
5	450.325	-62.73	17.75	-44.98	-13.00	-31.98	Vertical
6	503.312	-69.11	18.02	-51.09	-13.00	-38.09	Vertical

WCDMA Band V							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	111.251	-65.18	15.52	-49.66	-13.00	-36.66	Horizontal
2	380.144	-61.79	16.75	-45.04	-13.00	-32.04	Horizontal
3	714.963	-59.92	19.35	-40.57	-13.00	-27.57	Horizontal
4	52.708	-63.40	10.44	-52.96	-13.00	-39.96	Vertical
5	511.340	-61.76	17.75	-44.01	-13.00	-31.01	Vertical
6	603.247	-59.79	18.66	-41.13	-13.00	-28.13	Vertical
RMC 12.2kbps_ Middle Channel							
1	28.735	-58.09	9.78	-48.31	-13.00	-35.31	Horizontal
2	114.759	-58.22	13.75	-44.47	-13.00	-31.47	Horizontal
3	269.144	-56.28	16.75	-39.53	-13.00	-26.53	Horizontal
4	46.233	-62.72	10.23	-52.49	-13.00	-39.49	Vertical
5	480.340	-60.87	17.75	-43.12	-13.00	-30.12	Vertical
6	558.730	-62.32	18.02	-44.30	-13.00	-31.30	Vertical
RMC 12.2kbps_ Highest Channel							
1	184.759	-62.90	13.75	-49.15	-13.00	-36.15	Horizontal
2	263.144	-61.31	16.75	-44.56	-13.00	-31.56	Horizontal
3	521.435	-57.46	19.01	-38.45	-13.00	-25.45	Horizontal
4	53.233	-60.60	10.23	-50.37	-13.00	-37.37	Vertical
5	447.340	-61.78	17.75	-44.03	-13.00	-31.03	Vertical
6	569.730	-63.58	18.02	-45.56	-13.00	-32.56	Vertical

The measurement Above 1GHz data as follows:

GSM 850							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	1648.400	-87.55	23.50	-64.05	-13.00	-51.05	Horizontal
2	2472.600	-88.82	29.47	-59.35	-13.00	-46.35	Horizontal
3	1648.400	-87.38	23.72	-63.66	-13.00	-50.66	Vertical
4	2472.600	-85.05	29.47	-55.58	-13.00	-42.58	Vertical
GSM_ Middle Channel							
1	1673.200	-88.86	23.50	-65.36	-13.00	-52.36	Horizontal
2	2509.800	-90.58	29.47	-61.11	-13.00	-48.11	Horizontal
3	1673.200	-88.26	23.72	-64.54	-13.00	-51.54	Vertical
4	2509.800	-92.44	29.47	-62.97	-13.00	-49.97	Vertical
GSM_ Highest Channel							
1	1697.600	-89.80	23.50	-66.30	-13.00	-53.30	Horizontal
2	2546.400	-93.83	29.47	-64.36	-13.00	-51.36	Horizontal
3	1697.600	-87.49	23.72	-63.77	-13.00	-50.77	Vertical
4	2546.400	-87.83	29.47	-58.36	-13.00	-45.36	Vertical

PCS 1900							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	3700.400	-90.86	32.11	-58.75	-13.00	-45.75	Horizontal
2	5550.600	-76.94	33.21	-43.73	-13.00	-30.73	Horizontal
3	3700.400	-91.79	32.09	-59.70	-13.00	-46.70	Vertical
4	5550.600	-85.20	34.03	-51.17	-13.00	-38.17	Vertical
GSM_ Middle Channel							
1	3760.000	-78.52	32.11	-46.41	-13.00	-33.41	Horizontal
2	5640.000	-78.22	33.21	-45.01	-13.00	-32.01	Horizontal
3	3760.000	-88.40	32.09	-56.31	-13.00	-43.31	Vertical
4	5640.000	-85.99	34.03	-51.96	-13.00	-38.96	Vertical
GSM_ Highest Channel							
1	3819.600	-83.43	32.11	-51.32	-13.00	-38.32	Horizontal
2	5729.400	-87.62	33.21	-54.41	-13.00	-41.41	Horizontal
3	3819.600	-87.59	32.09	-55.50	-13.00	-42.50	Vertical
4	5729.400	-91.39	34.03	-57.36	-13.00	-44.36	Vertical

WCDMA Band II							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	3704.800	-83.38	31.09	-52.29	-13.00	-39.29	Horizontal
2	5557.200	-89.23	34.14	-55.09	-13.00	-42.09	Horizontal
3	3704.800	-81.62	33.13	-48.49	-13.00	-35.49	Vertical
4	5557.200	-88.06	32.66	-55.40	-13.00	-42.40	Vertical
RMC 12.2kbps_ Middle Channel							
1	3760.000	-83.69	31.09	-52.60	-13.00	-39.60	Horizontal
2	5640.000	-89.78	34.14	-55.64	-13.00	-42.64	Horizontal
3	3760.000	-84.06	33.13	-50.93	-13.00	-37.93	Vertical
4	5640.000	-80.88	32.66	-48.22	-13.00	-35.22	Vertical
RMC 12.2kbps_ Highest Channel							
1	3815.200	-80.78	31.09	-49.69	-13.00	-36.69	Horizontal
2	5722.800	-83.51	34.14	-49.37	-13.00	-36.37	Horizontal
3	3815.200	-81.83	33.13	-48.70	-13.00	-35.70	Vertical
4	5722.800	-84.27	32.66	-51.61	-13.00	-38.61	Vertical

WCDMA Band IV							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	3424.800	-90.73	32.11	-58.62	-13.00	-45.62	Horizontal
2	5137.200	-88.69	33.21	-55.48	-13.00	-42.48	Horizontal
3	3424.800	-87.74	32.09	-55.65	-13.00	-42.65	Vertical
4	5137.200	-92.70	34.03	-58.67	-13.00	-45.67	Vertical
RMC 12.2kbps_ Middle Channel							
1	3464.800	-91.31	32.11	-59.20	-13.00	-46.20	Horizontal
2	5197.200	-89.40	33.21	-56.19	-13.00	-43.19	Horizontal
3	3464.800	-92.64	32.09	-60.55	-13.00	-47.55	Vertical
4	5197.200	-93.21	34.03	-59.18	-13.00	-46.18	Vertical
RMC 12.2kbps_ Highest Channel							
1	3505.200	-88.20	32.11	-56.09	-13.00	-43.09	Horizontal
2	5257.800	-87.03	33.21	-53.82	-13.00	-40.82	Horizontal
3	3505.200	-87.45	32.09	-55.36	-13.00	-42.36	Vertical
4	5257.800	-88.44	34.03	-54.41	-13.00	-41.41	Vertical

WCDMA Band V							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	1652.800	-83.40	23.12	-60.28	-13.00	-47.28	Horizontal
2	2479.200	-85.66	28.47	-57.19	-13.00	-44.19	Horizontal
3	1652.800	-83.93	23.12	-60.81	-13.00	-47.81	Vertical
4	2479.200	-82.87	28.47	-54.40	-13.00	-41.40	Vertical
RMC 12.2kbps_ Middle Channel							
1	1672.800	-81.78	23.12	-58.66	-13.00	-45.66	Horizontal
2	2509.200	-83.64	28.47	-55.17	-13.00	-42.17	Horizontal
3	1672.800	-83.82	23.12	-60.70	-13.00	-47.70	Vertical
4	2509.200	-82.37	28.47	-53.90	-13.00	-40.90	Vertical
RMC 12.2kbps_ Highest Channel							
1	1693.200	-79.07	23.12	-55.95	-13.00	-42.95	Horizontal
2	2539.800	-81.68	28.47	-53.21	-13.00	-40.21	Horizontal
3	1693.200	-80.15	23.12	-57.03	-13.00	-44.03	Vertical
4	2539.800	-78.90	28.47	-50.43	-13.00	-37.43	Vertical

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. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test. Subsequently, only the worst case emissions are reported.

14. Frequency Stability / Variation of Ambient Temperature

14.1 Provisions Applicable

14.1.1 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 -30°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.

14.1.2 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 -30°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.

14.2 Measurement Procedure

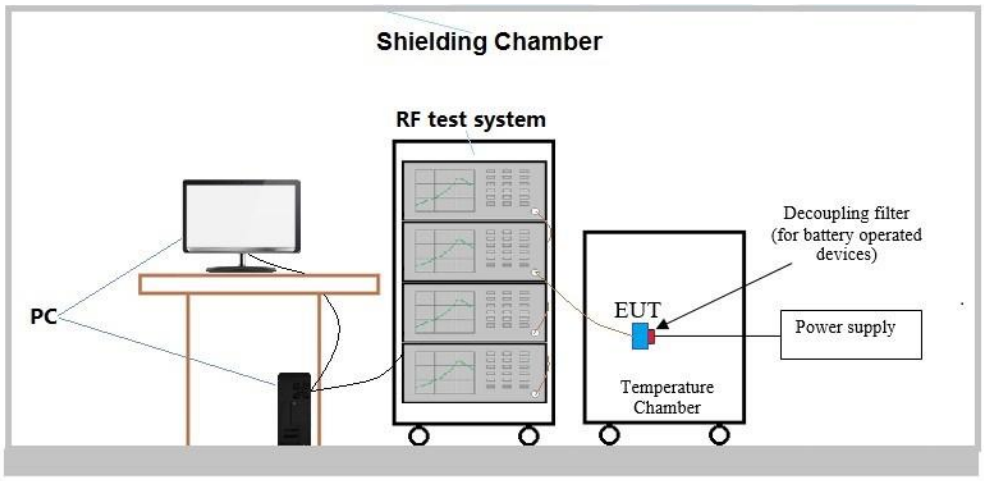
In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30℃. 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.
3. Repeat the above measurements at 10℃ increments from -30℃ to +50℃. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
4. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from 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.

5. Subject the EUT to overnight soak at +50℃.
6. 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.
7. Repeat the above measurements at 10℃ increments from +50℃ to -30℃. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
8. At all temperature levels hold the temperature to +/- 0.5℃ during the measurement procedure.

14.3 Measurement Setup



14.4 Measurement Result

- **Frequency Error vs. Voltage:**

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	GSM	LCH	TN	VL	4.97	0.006030	±2.5	PASS
			TN	VN	5.55	0.006734	±2.5	PASS
			TN	VH	4.52	0.005484	±2.5	PASS
		MCH	TN	VL	7.10	0.008487	±2.5	PASS
			TN	VN	7.94	0.009491	±2.5	PASS
			TN	VH	3.55	0.004243	±2.5	PASS
		HCH	TN	VL	7.49	0.008824	±2.5	PASS
			TN	VN	4.78	0.005631	±2.5	PASS
			TN	VH	4.65	0.005478	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq. Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	GPRS	LCH	TN	VL	6.07	0.007365	±2.5	PASS
			TN	VN	6.13	0.007438	±2.5	PASS
			TN	VH	3.68	0.004465	±2.5	PASS
		MCH	TN	VL	6.39	0.007638	±2.5	PASS
			TN	VN	5.10	0.006096	±2.5	PASS
			TN	VH	4.65	0.005558	±2.5	PASS
		HCH	TN	VL	5.75	0.006774	±2.5	PASS
			TN	VN	6.72	0.007917	±2.5	PASS
			TN	VH	7.94	0.009354	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	EDGE	LCH	TN	VL	12.56	0.015239	±2.5	PASS
			TN	VN	9.62	0.011672	±2.5	PASS
			TN	VH	8.27	0.010034	±2.5	PASS
		MCH	TN	VL	7.52	0.008989	±2.5	PASS
			TN	VN	7.26	0.008678	±2.5	PASS
			TN	VH	8.43	0.010077	±2.5	PASS
		HCH	TN	VL	9.04	0.010650	±2.5	PASS
			TN	VN	8.65	0.010191	±2.5	PASS
			TN	VH	9.07	0.010686	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt. (V)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Verdict
PCS1900	GSM	LCH	TN	VL	-10.20	-0.005513	Pass
			TN	VN	-9.75	-0.005270	Pass
			TN	VH	-6.84	-0.003697	Pass
		MCH	TN	VL	-3.29	-0.001750	Pass
			TN	VN	-1.23	-0.000654	Pass
			TN	VH	-2.20	-0.001170	Pass
		HCH	TN	VL	-1.61	-0.000843	Pass
			TN	VN	-3.36	-0.001759	Pass
			TN	VH	-0.65	-0.000340	Pass

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt. (V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Verdict
PCS1900	GPRS	LCH	TN	VL	-6.07	-0.003281	Pass
			TN	VN	-4.26	-0.002302	Pass
			TN	VH	-6.13	-0.003313	Pass
		MCH	TN	VL	-3.49	-0.001856	Pass
			TN	VN	-2.71	-0.001441	Pass
			TN	VH	-2.00	-0.001064	Pass
		HCH	TN	VL	-2.84	-0.001487	Pass
			TN	VN	-3.03	-0.001587	Pass
			TN	VH	-3.36	-0.001759	Pass

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt. (V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Verdict
PCS1900	EDGE	LCH	TN	VL	-1.55	-0.000838	Pass
			TN	VN	-3.87	-0.002092	Pass
			TN	VH	-4.75	-0.002567	Pass
		MCH	TN	VL	-7.91	-0.004207	Pass
			TN	VN	-7.39	-0.003931	Pass
			TN	VH	-6.17	-0.003282	Pass
		HCH	TN	VL	-5.88	-0.003079	Pass
			TN	VN	-8.23	-0.004309	Pass
			TN	VH	-7.30	-0.003822	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.

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Limit (ppm)	Verdict
WCDMA850	RMC 12.2kbps	LCH	TN	VL	-1.39	-0.001682	±2.5	Pass
			TN	VN	0.03	0.000036	±2.5	Pass
			TN	VH	-1.72	-0.002081	±2.5	Pass
		MCH	TN	VL	-5.79	-0.006923	±2.5	Pass
			TN	VN	-6.48	-0.007747	±2.5	Pass
			TN	VH	-5.08	-0.006074	±2.5	Pass
		HCH	TN	VL	-4.38	-0.005174	±2.5	Pass
			TN	VN	-3.62	-0.004276	±2.5	Pass
			TN	VH	-5.04	-0.005953	±2.5	Pass

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Limit (ppm)	Verdict
WCDMA850	HSDPA	LCH	TN	VL	-6.37	-0.007708	±2.5	Pass
			TN	VN	-8.75	-0.010588	±2.5	Pass
			TN	VH	-5.84	-0.007067	±2.5	Pass
		MCH	TN	VL	-2.23	-0.002698	±2.5	Pass
			TN	VN	-3.12	-0.003775	±2.5	Pass
			TN	VH	-3.88	-0.004695	±2.5	Pass
		HCH	TN	VL	-3.40	-0.004114	±2.5	Pass
			TN	VN	-3.90	-0.004719	±2.5	Pass
			TN	VH	-1.65	-0.001997	±2.5	Pass

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Limit (ppm)	Verdict
WCDMA850	HSUPA	LCH	TN	VL	-0.93	-0.001125	±2.5	Pass
			TN	VN	-2.33	-0.002819	±2.5	Pass
			TN	VH	-4.38	-0.005300	±2.5	Pass
		MCH	TN	VL	-2.51	-0.003001	±2.5	Pass
			TN	VN	-1.26	-0.001506	±2.5	Pass
			TN	VH	-1.98	-0.002367	±2.5	Pass
		HCH	TN	VL	-1.90	-0.002272	±2.5	Pass
			TN	VN	-2.37	-0.002834	±2.5	Pass
			TN	VH	-2.40	-0.002869	±2.5	Pass

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Verdict
WCDMA1700	RMC 12.2kbps	LCH	TN	VL	-7.45	-0.004351	Pass
			TN	VN	-12.45	-0.007270	Pass
			TN	VH	-4.71	-0.002751	Pass
		MCH	TN	VL	-7.29	-0.004208	Pass
			TN	VN	-4.12	-0.002378	Pass
			TN	VH	-4.86	-0.002805	Pass
		HCH	TN	VL	-5.55	-0.003167	Pass
			TN	VN	-6.04	-0.003446	Pass
			TN	VH	-3.86	-0.002202	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.

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Verdict
WCDMA1700	HSDPA	LCH	TN	VL	-2.89	-0.001688	Pass
			TN	VN	-3.83	-0.002237	Pass
			TN	VH	-4.07	-0.002377	Pass
		MCH	TN	VL	-2.65	-0.001548	Pass
			TN	VN	-0.51	-0.000298	Pass
			TN	VH	-2.74	-0.001581	Pass
		HCH	TN	VL	-6.26	-0.003613	Pass
			TN	VN	-5.06	-0.002920	Pass
			TN	VH	-2.89	-0.001688	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.

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Verdict
WCDMA1700	HSUPA	LCH	TN	VL	-3.25	-0.001876	Pass
			TN	VN	-2.62	-0.001512	Pass
			TN	VH	-3.77	-0.002151	Pass
		MCH	TN	VL	-2.29	-0.001307	Pass
			TN	VN	-5.46	-0.003115	Pass
			TN	VH	-5.40	-0.003081	Pass
		HCH	TN	VL	-4.19	-0.002391	Pass
			TN	VN	-2.65	-0.003207	Pass
			TN	VH	-2.90	-0.003509	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.

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Verdict
WCDMA1900	RMC 12.2kbps	LCH	TN	VL	-2.56	-0.001382	Pass
			TN	VN	-6.42	-0.003466	Pass
			TN	VH	-1.81	-0.000977	Pass
		MCH	TN	VL	2.36	0.001255	Pass
			TN	VN	0.74	0.000394	Pass
			TN	VH	-3.52	-0.001872	Pass
		HCH	TN	VL	-3.07	-0.001609	Pass
			TN	VN	-0.67	-0.000351	Pass
			TN	VH	-3.64	-0.001908	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.

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Verdict
WCDMA1900	HSDPA	LCH	TN	VL	-4.53	-0.002445	Pass
			TN	VN	-2.42	-0.001306	Pass
			TN	VH	-0.52	-0.000281	Pass
		MCH	TN	VL	-2.51	-0.001355	Pass
			TN	VN	-4.79	-0.002586	Pass
			TN	VH	-3.69	-0.001963	Pass
		HCH	TN	VL	-3.40	-0.001809	Pass
			TN	VN	-3.79	-0.002016	Pass
			TN	VH	-4.74	-0.002521	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.

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Verdict
WCDMA1900	HSUPA	LCH	TN	VL	0.80	0.000426	Pass
			TN	VN	-4.16	-0.002181	Pass
			TN	VH	-4.48	-0.002349	Pass
		MCH	TN	VL	-0.14	-0.000073	Pass
			TN	VN	-0.08	-0.000042	Pass
			TN	VH	-1.34	-0.000702	Pass
		HCH	TN	VL	-2.89	-0.001688	Pass
			TN	VN	-3.83	-0.002237	Pass
			TN	VH	-4.07	-0.002377	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.

- **Frequency Error vs. Temperature:**

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	GSM	LCH	VN	-30	6.78	0.008226	±2.5	PASS
			VN	-20	8.27	0.010034	±2.5	PASS
			VN	-10	4.46	0.005411	±2.5	PASS
			VN	0	8.01	0.009719	±2.5	PASS
			VN	10	5.75	0.006976	±2.5	PASS
			VN	20	4.52	0.005484	±2.5	PASS
			VN	30	6.52	0.007911	±2.5	PASS
			VN	40	3.81	0.004623	±2.5	PASS
			VN	50	5.17	0.006273	±2.5	PASS
GSM850	GSM	MCH	VN	-30	7.10	0.008487	±2.5	PASS
			VN	-20	5.23	0.006251	±2.5	PASS
			VN	-10	6.52	0.007793	±2.5	PASS
			VN	0	5.68	0.006789	±2.5	PASS
			VN	10	6.97	0.008331	±2.5	PASS
			VN	20	4.71	0.005630	±2.5	PASS
			VN	30	8.72	0.010423	±2.5	PASS
			VN	40	5.94	0.007100	±2.5	PASS
			VN	50	8.07	0.009646	±2.5	PASS
GSM850	GSM	HCH	VN	-30	7.17	0.008447	±2.5	PASS
			VN	-20	6.01	0.007081	±2.5	PASS
			VN	-10	7.36	0.008671	±2.5	PASS
			VN	0	3.75	0.004418	±2.5	PASS
			VN	10	5.62	0.006621	±2.5	PASS
			VN	20	6.20	0.007304	±2.5	PASS
			VN	30	9.30	0.010957	±2.5	PASS
			VN	40	4.52	0.005325	±2.5	PASS
			VN	50	9.69	0.011416	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	GPRS	LCH	VN	-30	6.13	0.007438	±2.5	PASS
			VN	-20	4.13	0.005011	±2.5	PASS
			VN	-10	6.72	0.008153	±2.5	PASS
			VN	0	4.39	0.005326	±2.5	PASS
			VN	10	4.00	0.004853	±2.5	PASS
			VN	20	10.20	0.012376	±2.5	PASS
			VN	30	13.95	0.016926	±2.5	PASS
			VN	40	12.20	0.014802	±2.5	PASS
			VN	50	10.85	0.013164	±2.5	PASS
GSM850	GPRS	MCH	VN	-30	4.78	0.005714	±2.5	PASS
			VN	-20	3.16	0.003777	±2.5	PASS
			VN	-10	6.13	0.007327	±2.5	PASS
			VN	0	4.58	0.005475	±2.5	PASS
			VN	10	2.91	0.003478	±2.5	PASS
			VN	20	6.46	0.007722	±2.5	PASS
			VN	30	6.65	0.007949	±2.5	PASS
			VN	40	5.17	0.006180	±2.5	PASS
			VN	50	4.33	0.005176	±2.5	PASS
GSM850	GPRS	HCH	VN	-30	4.07	0.004795	±2.5	PASS
			VN	-20	5.55	0.006539	±2.5	PASS
			VN	-10	6.46	0.007611	±2.5	PASS
			VN	0	5.94	0.006998	±2.5	PASS
			VN	10	1.61	0.001897	±2.5	PASS
			VN	20	1.94	0.002286	±2.5	PASS
			VN	30	3.55	0.004182	±2.5	PASS
			VN	40	6.20	0.007304	±2.5	PASS
			VN	50	4.65	0.005478	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	EDGE	LCH	VN	-30	7.23	0.008772	±2.5	PASS
			VN	-20	7.65	0.009282	±2.5	PASS
			VN	-10	19.21	0.023307	±2.5	PASS
			VN	0	17.47	0.021196	±2.5	PASS
			VN	10	15.79	0.019158	±2.5	PASS
			VN	20	12.59	0.015275	±2.5	PASS
			VN	30	10.98	0.013322	±2.5	PASS
			VN	40	601.39	0.729665	±2.5	PASS
			VN	50	10.33	0.012533	±2.5	PASS
GSM850	EDGE	MCH	VN	-30	8.75	0.010459	±2.5	PASS
			VN	-20	7.01	0.008379	±2.5	PASS
			VN	-10	416.36	0.497681	±2.5	PASS
			VN	0	10.23	0.012228	±2.5	PASS
			VN	10	11.40	0.013627	±2.5	PASS
			VN	20	6.78	0.008104	±2.5	PASS
			VN	30	9.65	0.011535	±2.5	PASS
			VN	40	8.94	0.010686	±2.5	PASS
			VN	50	8.59	0.010268	±2.5	PASS
GSM850	EDGE	HCH	VN	-30	7.81	0.009201	±2.5	PASS
			VN	-20	6.75	0.007952	±2.5	PASS
			VN	-10	10.46	0.012323	±2.5	PASS
			VN	0	9.62	0.011334	±2.5	PASS
			VN	10	7.85	0.009248	±2.5	PASS
			VN	20	10.40	0.012253	±2.5	PASS
			VN	30	9.56	0.011263	±2.5	PASS
			VN	40	8.72	0.010273	±2.5	PASS
			VN	50	7.52	0.008860	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	GSM	LCH	VN	-30	-2.71	-0.001465	±2.5	PASS
			VN	-20	-4.71	-0.002546	±2.5	PASS
			VN	-10	-2.84	-0.001535	±2.5	PASS
			VN	0	-4.07	-0.002200	±2.5	PASS
			VN	10	-3.62	-0.001957	±2.5	PASS
			VN	20	-8.59	-0.004643	±2.5	PASS
			VN	30	-5.36	-0.002897	±2.5	PASS
			VN	40	-7.23	-0.003908	±2.5	PASS
			VN	50	-9.69	-0.005237	±2.5	PASS
GSM1900	GSM	MCH	VN	-30	-5.10	-0.002713	±2.5	PASS
			VN	-20	-3.87	-0.002059	±2.5	PASS
			VN	-10	-4.46	-0.002372	±2.5	PASS
			VN	0	-0.97	-0.000516	±2.5	PASS
			VN	10	0.00	0.000000	±2.5	PASS
			VN	20	-2.58	-0.001372	±2.5	PASS
			VN	30	-5.49	-0.002920	±2.5	PASS
			VN	40	-5.04	-0.002681	±2.5	PASS
			VN	50	-4.91	-0.002612	±2.5	PASS
GSM1900	GSM	HCH	VN	-30	-2.84	-0.001487	±2.5	PASS
			VN	-20	-2.52	-0.001320	±2.5	PASS
			VN	-10	-3.36	-0.001759	±2.5	PASS
			VN	0	-3.23	-0.001691	±2.5	PASS
			VN	10	-3.49	-0.001827	±2.5	PASS
			VN	20	-2.78	-0.001456	±2.5	PASS
			VN	30	-3.87	-0.002026	±2.5	PASS
			VN	40	-1.16	-0.000607	±2.5	PASS
			VN	50	-2.97	-0.001555	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	GPRS	LCH	VN	-30	-1.61	-0.000870	±2.5	PASS
			VN	-20	-6.26	-0.003383	±2.5	PASS
			VN	-10	-7.04	-0.003805	±2.5	PASS
			VN	0	-6.20	-0.003351	±2.5	PASS
			VN	10	-4.71	-0.002546	±2.5	PASS
			VN	20	-1.03	-0.000557	±2.5	PASS
			VN	30	-1.42	-0.000767	±2.5	PASS
			VN	40	-1.61	-0.000870	±2.5	PASS
			VN	50	2.84	0.001535	±2.5	PASS
GSM1900	GPRS	MCH	VN	-30	-3.49	-0.001856	±2.5	PASS
			VN	-20	-2.13	-0.001133	±2.5	PASS
			VN	-10	-2.84	-0.001511	±2.5	PASS
			VN	0	-5.68	-0.003021	±2.5	PASS
			VN	10	-8.39	-0.004463	±2.5	PASS
			VN	20	-7.55	-0.004016	±2.5	PASS
			VN	30	-1.94	-0.001032	±2.5	PASS
			VN	40	-4.91	-0.002612	±2.5	PASS
			VN	50	-8.01	-0.004261	±2.5	PASS
GSM1900	GPRS	HCH	VN	-30	-1.55	-0.000812	±2.5	PASS
			VN	-20	-2.97	-0.001555	±2.5	PASS
			VN	-10	-4.84	-0.002534	±2.5	PASS
			VN	0	-2.78	-0.001456	±2.5	PASS
			VN	10	-3.68	-0.001927	±2.5	PASS
			VN	20	-11.30	-0.005917	±2.5	PASS
			VN	30	3.16	0.001655	±2.5	PASS
			VN	40	-1.87	-0.000979	±2.5	PASS
			VN	50	-6.97	-0.003650	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	EDGE	LCH	VN	-30	-6.68	-0.003610	±2.5	PASS
			VN	-20	-8.01	-0.004329	±2.5	PASS
			VN	-10	11.14	0.006021	±2.5	PASS
			VN	0	4.97	0.002686	±2.5	PASS
			VN	10	3.07	0.001659	±2.5	PASS
			VN	20	-0.03	-0.000016	±2.5	PASS
			VN	30	-0.87	-0.000470	±2.5	PASS
			VN	40	-0.65	-0.000351	±2.5	PASS
			VN	50	-4.52	-0.002443	±2.5	PASS
GSM1900	EDGE	MCH	VN	-30	-0.31	-0.553356	±2.5	PASS
			VN	-20	-7.85	-0.004176	±2.5	PASS
			VN	-10	-6.81	-0.003622	±2.5	PASS
			VN	0	-8.27	-0.004399	±2.5	PASS
			VN	10	-12.17	-0.006473	±2.5	PASS
			VN	20	-3.58	-0.001904	±2.5	PASS
			VN	30	-5.91	-0.003144	±2.5	PASS
			VN	40	-7.43	-0.003952	±2.5	PASS
			VN	50	-2.52	-0.001340	±2.5	PASS
GSM1900	EDGE	HCH	VN	-30	-7.97	-0.004173	±2.5	PASS
			VN	-20	-6.26	-0.003278	±2.5	PASS
			VN	-10	-3.55	-0.001859	±2.5	PASS
			VN	0	-7.07	-0.003702	±2.5	PASS
			VN	10	-2.00	-0.001047	±2.5	PASS
			VN	20	-7.65	-0.004006	±2.5	PASS
			VN	30	-11.91	-0.006236	±2.5	PASS
			VN	40	-7.94	-0.004158	±2.5	PASS
			VN	50	-3.91	-0.002047	±2.5	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Tem. (℃)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Limit (ppm)	Verdict
WCDMA 850	RMC 12.2kbps	LCH	VN	-30	-6.37	-0.007708	±2.5	PASS
			VN	-20	-8.75	-0.010588	±2.5	PASS
			VN	-10	-5.84	-0.007067	±2.5	PASS
			VN	0	-2.23	-0.002698	±2.5	PASS
			VN	10	-3.12	-0.003775	±2.5	PASS
			VN	20	-3.88	-0.004695	±2.5	PASS
			VN	30	-3.40	-0.004114	±2.5	PASS
			VN	40	-3.90	-0.004719	±2.5	PASS
			VN	50	-1.65	-0.001997	±2.5	PASS
WCDMA 850	RMC 12.2kbps	MCH	VN	-30	-0.93	-0.001125	±2.5	PASS
			VN	-20	-2.33	-0.002819	±2.5	PASS
			VN	-10	-4.38	-0.005300	±2.5	PASS
			VN	0	-2.51	-0.003001	±2.5	PASS
			VN	10	-1.26	-0.001506	±2.5	PASS
			VN	20	-1.98	-0.002367	±2.5	PASS
			VN	30	-1.90	-0.002272	±2.5	PASS
			VN	40	-2.37	-0.002834	±2.5	PASS
			VN	50	-2.40	-0.002869	±2.5	PASS
WCDMA 850	RMC 12.2kbps	HCH	VN	-30	-4.71	-0.005631	±2.5	PASS
			VN	-20	-3.01	-0.003599	±2.5	PASS
			VN	-10	-4.16	-0.004974	±2.5	PASS
			VN	0	-1.92	-0.002296	±2.5	PASS
			VN	10	-1.53	-0.001829	±2.5	PASS
			VN	20	-4.76	-0.005691	±2.5	PASS
			VN	30	-3.86	-0.004559	±2.5	PASS
			VN	40	-4.67	-0.005516	±2.5	PASS
			VN	50	-3.28	-0.003874	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Tem. (℃)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Limit (ppm)	Verdict
WCDMA 850	HSDPA	LCH	VN	-30	-0.29	-0.000343	±2.5	PASS
			VN	-20	-1.17	-0.001382	±2.5	PASS
			VN	-10	-1.88	-0.002221	±2.5	PASS
			VN	0	-1.54	-0.001819	±2.5	PASS
			VN	10	-2.22	-0.002622	±2.5	PASS
			VN	20	-1.03	-0.001217	±2.5	PASS
			VN	30	-3.05	-0.003603	±2.5	PASS
			VN	40	-2.91	-0.003437	±2.5	PASS
			VN	50	-3.10	-0.003662	±2.5	PASS
WCDMA 850	HSDPA	MCH	VN	-30	-1.70	-0.002057	±2.5	PASS
			VN	-20	-2.59	-0.003134	±2.5	PASS
			VN	-10	-2.34	-0.002832	±2.5	PASS
			VN	0	-1.39	-0.001682	±2.5	PASS
			VN	10	-3.04	-0.003679	±2.5	PASS
			VN	20	-3.63	-0.004393	±2.5	PASS
			VN	30	-4.09	-0.004949	±2.5	PASS
			VN	40	-2.06	-0.002493	±2.5	PASS
			VN	50	-3.12	-0.003775	±2.5	PASS
WCDMA 850	HSDPA	HCH	VN	-30	-3.16	-0.003824	±2.5	PASS
			VN	-20	-2.80	-0.003388	±2.5	PASS
			VN	-10	-3.68	-0.004453	±2.5	PASS
			VN	0	-3.35	-0.004054	±2.5	PASS
			VN	10	-3.00	-0.003630	±2.5	PASS
			VN	20	-3.60	-0.004356	±2.5	PASS
			VN	30	-3.36	-0.004066	±2.5	PASS
			VN	40	-2.73	-0.003303	±2.5	PASS
			VN	50	-2.88	-0.003485	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Tem. (℃)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Limit (ppm)	Verdict
WCDMA 850	HSUPA	LCH	VN	-30	-3.53	-0.004272	±2.5	PASS
			VN	-20	-2.51	-0.003037	±2.5	PASS
			VN	-10	-0.73	-0.000873	±2.5	PASS
			VN	0	-3.98	-0.004758	±2.5	PASS
			VN	10	-3.30	-0.003945	±2.5	PASS
			VN	20	-2.52	-0.003013	±2.5	PASS
			VN	30	-3.51	-0.004197	±2.5	PASS
			VN	40	-6.11	-0.007305	±2.5	PASS
			VN	50	-5.48	-0.006552	±2.5	PASS
WCDMA 850	HSUPA	MCH	VN	-30	-4.15	-0.004962	±2.5	PASS
			VN	-20	-4.80	-0.005739	±2.5	PASS
			VN	-10	-4.50	-0.005380	±2.5	PASS
			VN	0	-2.73	-0.003264	±2.5	PASS
			VN	10	-2.00	-0.002391	±2.5	PASS
			VN	20	-1.86	-0.002224	±2.5	PASS
			VN	30	-3.30	-0.003945	±2.5	PASS
			VN	40	-2.15	-0.002571	±2.5	PASS
			VN	50	-4.47	-0.005344	±2.5	PASS
WCDMA 850	HSUPA	HCH	VN	-30	-3.73	-0.004460	±2.5	PASS
			VN	-20	-3.23	-0.003862	±2.5	PASS
			VN	-10	-2.40	-0.002869	±2.5	PASS
			VN	0	-2.57	-0.003073	±2.5	PASS
			VN	10	-2.47	-0.002918	±2.5	PASS
			VN	20	-1.75	-0.002067	±2.5	PASS
			VN	30	-0.97	-0.001146	±2.5	PASS
			VN	40	-2.75	-0.003248	±2.5	PASS
			VN	50	-3.53	-0.004272	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Tem. (℃)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Verdict
WCDMA1700	RMC 12.2kbps	LCH	VN	-30	-3.51	-0.002050	Pass
			VN	-20	-2.12	-0.001238	Pass
			VN	-10	-3.50	-0.002044	Pass
			VN	0	-6.67	-0.003895	Pass
			VN	10	-6.33	-0.003697	Pass
			VN	20	-4.04	-0.002359	Pass
			VN	30	-4.43	-0.002587	Pass
			VN	40	-4.06	-0.002371	Pass
			VN	50	-3.82	-0.002231	Pass
WCDMA1700	RMC 12.2kbps	MCH	VN	-30	-3.50	-0.002044	Pass
			VN	-20	-1.39	-0.000812	Pass
			VN	-10	-2.41	-0.001407	Pass
			VN	0	-4.28	-0.002499	Pass
			VN	10	-7.50	-0.004380	Pass
			VN	20	-6.10	-0.003562	Pass
			VN	30	-5.19	-0.003031	Pass
			VN	40	-4.99	-0.002914	Pass
			VN	50	-4.87	-0.002844	Pass
WCDMA1700	RMC 12.2kbps	HCH	VN	-30	-3.71	-0.002167	Pass
			VN	-20	-3.68	-0.002149	Pass
			VN	-10	-3.36	-0.001939	Pass
			VN	0	-3.98	-0.002297	Pass
			VN	10	-2.55	-0.001472	Pass
			VN	20	-1.57	-0.000906	Pass
			VN	30	-3.08	-0.001778	Pass
			VN	40	-1.24	-0.000716	Pass
			VN	50	-1.57	-0.000906	Pass

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Test Band	Test Mode	Test Channel	Test Volt.	Test Tem. (℃)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Verdict
WCDMA1700	HSDPA	LCH	VN	-30	-1.65	-0.000952	Pass
			VN	-20	-2.17	-0.001252	Pass
			VN	-10	-3.40	-0.001962	Pass
			VN	0	-5.64	-0.003255	Pass
			VN	10	-5.75	-0.003319	Pass
			VN	20	-5.83	-0.003365	Pass
			VN	30	-5.71	-0.003296	Pass
			VN	40	-4.79	-0.002765	Pass
			VN	50	-4.98	-0.002874	Pass
WCDMA1700	HSDPA	MCH	VN	-30	-4.72	-0.002724	Pass
			VN	-20	-4.43	-0.002557	Pass
			VN	-10	-4.09	-0.002361	Pass
			VN	0	-5.10	-0.002944	Pass
			VN	10	-2.90	-0.001655	Pass
			VN	20	-2.99	-0.001706	Pass
			VN	30	-3.64	-0.002077	Pass
			VN	40	-4.07	-0.002322	Pass
			VN	50	-3.91	-0.002231	Pass
WCDMA1700	HSDPA	HCH	VN	-30	-2.65	-0.001512	Pass
			VN	-20	-2.93	-0.001672	Pass
			VN	-10	-2.55	-0.001455	Pass
			VN	0	-1.50	-0.000856	Pass
			VN	10	-1.96	-0.001118	Pass
			VN	20	-2.20	-0.001255	Pass
			VN	30	-2.69	-0.001535	Pass
			VN	40	-1.98	-0.001130	Pass
			VN	50	-2.06	-0.001175	Pass

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Test Band	Test Mode	Test Channel	Test Volt.	Test Tem. (℃)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Verdict
WCDMA1700	HSUPA	LCH	VN	-30	-4.71	-0.002751	Pass
			VN	-20	-3.02	-0.001764	Pass
			VN	-10	-3.07	-0.001793	Pass
			VN	0	-1.95	-0.001139	Pass
			VN	10	-1.63	-0.000952	Pass
			VN	20	-1.60	-0.000934	Pass
			VN	30	-1.44	-0.000841	Pass
			VN	40	-1.72	-0.001004	Pass
			VN	50	-1.63	-0.000952	Pass
WCDMA1700	HSUPA	MCH	VN	-30	-2.96	-0.001729	Pass
			VN	-20	-3.57	-0.002085	Pass
			VN	-10	-3.98	-0.002324	Pass
			VN	0	-4.76	-0.002780	Pass
			VN	10	-5.06	-0.002955	Pass
			VN	20	-4.28	-0.002499	Pass
			VN	30	-5.46	-0.003189	Pass
			VN	40	-6.21	-0.003626	Pass
			VN	50	-6.12	-0.003574	Pass
WCDMA1700	HSUPA	HCH	VN	-30	-1.22	-0.000712	Pass
			VN	-20	-1.25	-0.000730	Pass
			VN	-10	-0.97	-0.000566	Pass
			VN	0	-1.53	-0.000893	Pass
			VN	10	-1.16	-0.000677	Pass
			VN	20	-1.82	-0.001063	Pass
			VN	30	-1.06	-0.000619	Pass
			VN	40	-1.57	-0.000906	Pass
			VN	50	-1.29	-0.000745	Pass

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Test Band	Test Mode	Test Channel	Test Volt.	Test Tem. (℃)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Verdict
WCDMA1900	RMC 12.2kbps	LCH	VN	-30	-3.70	-0.001997	Pass
			VN	-20	-7.77	-0.004195	Pass
			VN	-10	-5.56	-0.003002	Pass
			VN	0	-6.59	-0.003558	Pass
			VN	10	-6.29	-0.003396	Pass
			VN	20	-0.75	-0.000405	Pass
			VN	30	-3.18	-0.001717	Pass
			VN	40	-4.01	-0.002165	Pass
			VN	50	-1.92	-0.001036	Pass
WCDMA1900	RMC 12.2kbps	MCH	VN	-30	2.11	0.001139	Pass
			VN	-20	-1.03	-0.000556	Pass
			VN	-10	-3.73	-0.002014	Pass
			VN	0	-5.85	-0.003158	Pass
			VN	10	-3.95	-0.002132	Pass
			VN	20	-4.42	-0.002386	Pass
			VN	30	2.70	0.001458	Pass
			VN	40	1.65	0.000891	Pass
			VN	50	-1.72	-0.000929	Pass
WCDMA1900	RMC 12.2kbps	HCH	VN	-30	-3.08	-0.001663	Pass
			VN	-20	-3.78	-0.002041	Pass
			VN	-10	0.12	0.000064	Pass
			VN	0	0.24	0.000128	Pass
			VN	10	2.50	0.001330	Pass
			VN	20	0.25	0.000133	Pass
			VN	30	-1.82	-0.000968	Pass
			VN	40	-2.85	-0.001516	Pass
			VN	50	-1.45	-0.000771	Pass

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Test Band	Test Mode	Test Channel	Test Volt.	Test Tem. (℃)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Verdict
WCDMA1900	HSDPA	LCH	VN	-30	-3.03	-0.001612	Pass
			VN	-20	-1.39	-0.000739	Pass
			VN	-10	-2.20	-0.001170	Pass
			VN	0	-2.20	-0.001170	Pass
			VN	10	-3.24	-0.001723	Pass
			VN	20	-3.34	-0.001777	Pass
			VN	30	-5.54	-0.002947	Pass
			VN	40	0.65	0.000346	Pass
			VN	50	1.12	0.000596	Pass
WCDMA1900	HSDPA	MCH	VN	-30	1.70	0.000904	Pass
			VN	-20	1.35	0.000718	Pass
			VN	-10	1.59	0.000846	Pass
			VN	0	1.43	0.000761	Pass
			VN	10	0.21	0.000112	Pass
			VN	20	0.64	0.000340	Pass
			VN	30	-0.16	-0.000085	Pass
			VN	40	0.24	0.000128	Pass
			VN	50	-0.19	-0.000101	Pass
WCDMA1900	HSDPA	HCH	VN	-30	0.05	0.000027	Pass
			VN	-20	-0.28	-0.000149	Pass
			VN	-10	-0.53	-0.000282	Pass
			VN	0	-0.11	-0.000059	Pass
			VN	10	-0.92	-0.000489	Pass
			VN	20	0.22	0.000115	Pass
			VN	30	-0.57	-0.000299	Pass
			VN	40	-1.05	-0.000550	Pass
			VN	50	-0.67	-0.000351	Pass

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Test Band	Test Mode	Test Channel	Test Volt.	Test Tem. (℃)	Freq. Error (Hz)	Freq. vs Rated (ppm)	Verdict
WCDMA1900	HSUPA	LCH	VN	-30	-0.64	-0.000336	Pass
			VN	-20	-1.96	-0.001027	Pass
			VN	-10	-1.18	-0.000619	Pass
			VN	0	-1.05	-0.000550	Pass
			VN	10	-1.85	-0.000970	Pass
			VN	20	-2.07	-0.001085	Pass
			VN	30	-1.89	-0.000991	Pass
			VN	40	-3.10	-0.001625	Pass
			VN	50	-2.18	-0.001143	Pass
WCDMA1900	HSUPA	MCH	VN	-30	-3.53	-0.001850	Pass
			VN	-20	-3.50	-0.001835	Pass
			VN	-10	-2.77	-0.001452	Pass
			VN	0	-4.11	-0.002155	Pass
			VN	10	-2.66	-0.001394	Pass
			VN	20	-2.55	-0.001337	Pass
			VN	30	-3.13	-0.001641	Pass
			VN	40	-3.62	-0.001898	Pass
			VN	50	-3.30	-0.001730	Pass
WCDMA1900	HSUPA	HCH	VN	-30	-4.31	-0.002259	Pass
			VN	-20	-4.67	-0.002448	Pass
			VN	-10	-3.55	-0.001861	Pass
			VN	0	-3.72	-0.002008	Pass
			VN	10	-3.50	-0.001889	Pass
			VN	20	0.84	0.000453	Pass
			VN	30	-1.05	-0.000567	Pass
			VN	40	-1.79	-0.000966	Pass
			VN	50	-1.58	-0.000853	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.

Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC00408240102AP06

Appendix II: Photographs of EUT

Refer to the Report No.: AGC00408240102AP04

-----End of Report-----

Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

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. 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.

5. 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.

6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

7.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.

8. 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.

9. 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.