

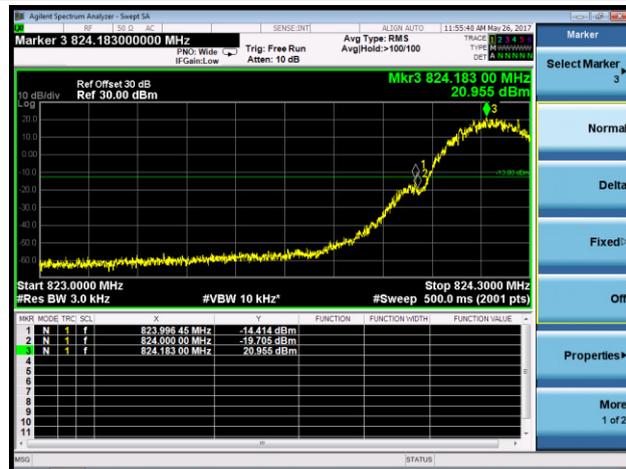
7.3.5. Test Result

Product	Mobile Computer	Temperature	25°C
Test Engineer	Polly Zong	Relative Humidity	52%
Test Site	TR3	Test Date	2017/05/23

Mode	Channel No.	Frequency (MHz)	Modulation	Test Result
GSM850	128	824.20	GMSK	Pass
GSM850	189	836.40	GMSK	Pass
GSM850	251	848.80	GMSK	Pass
PCS1900	512	1850.20	GMSK	Pass
PCS1900	661	1880.00	GMSK	Pass
PCS1900	810	1909.80	GMSK	Pass
EDGE850	128	824.20	8PSK	Pass
EDGE850	189	836.40	8PSK	Pass
EDGE850	251	848.80	8PSK	Pass
EDGE1900	512	1850.20	8PSK	Pass
EDGE1900	661	1880.00	8PSK	Pass
EDGE1900	810	1909.80	8PSK	Pass
WCDMA Band II	9262	1852.4	QPSK	Pass
WCDMA Band II	9400	1880.0	QPSK	Pass
WCDMA Band II	9538	1907.6	QPSK	Pass
WCDMA Band V	4132	826.40	QPSK	Pass
WCDMA Band V	4182	836.40	QPSK	Pass
WCDMA Band V	4233	846.60	QPSK	Pass

GSM850 Band Edge

Channel 128 (824.20MHz)

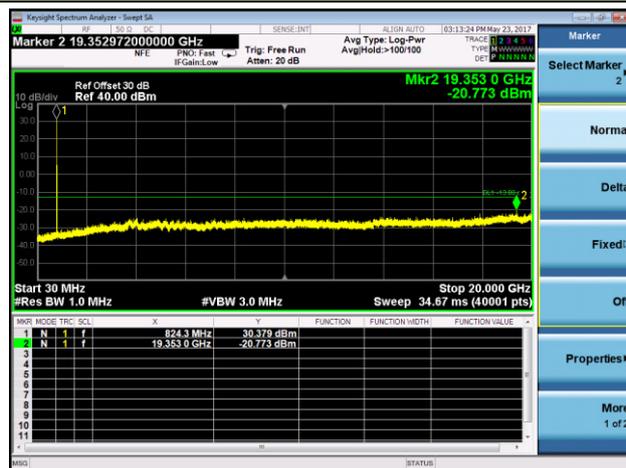


Channel 251 (848.80MHz)

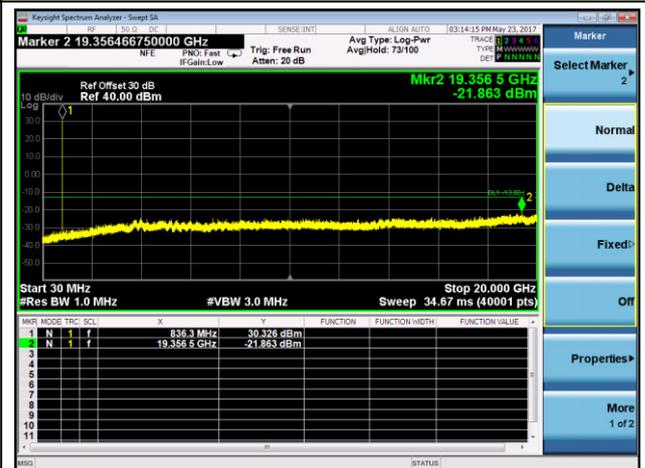


GSM850 Conducted Spurious Emission

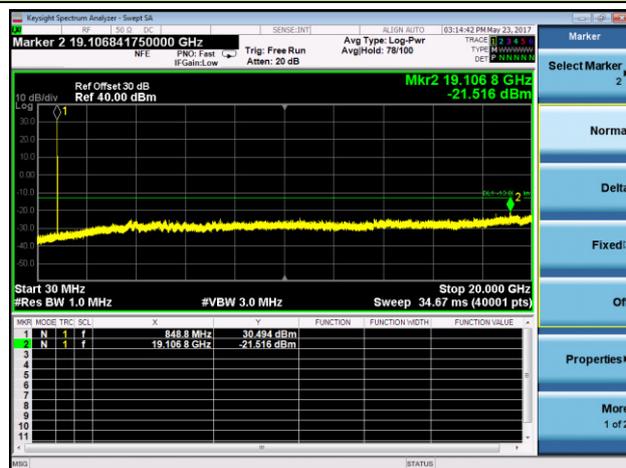
Channel 128 (824.20MHz)



Channel 189 (836.40MHz)

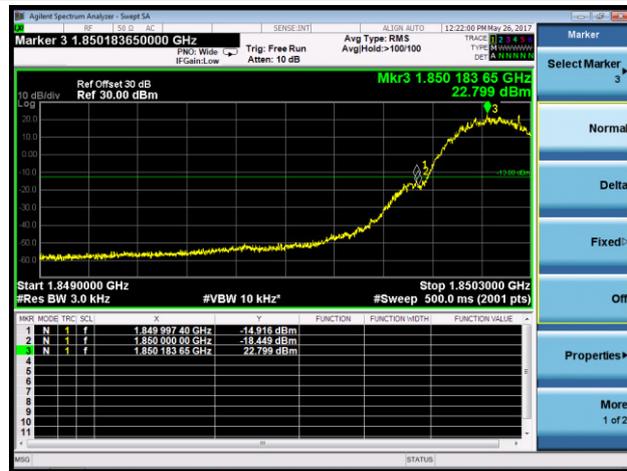


Channel 251 (848.80MHz)



PCS1900 Band Edge

Channel 512 (1850.20MHz)

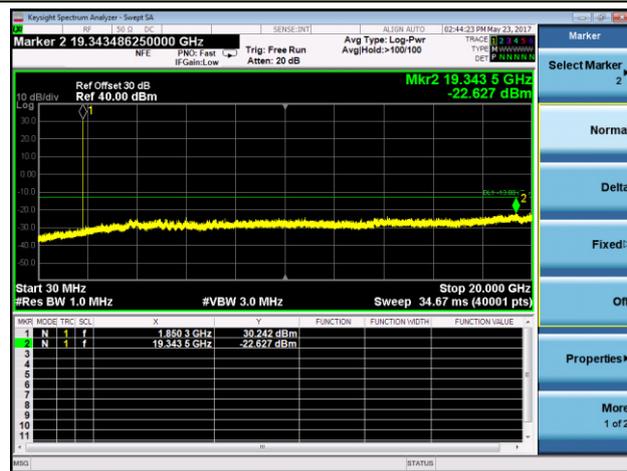


Channel 810 (1909.80MHz)

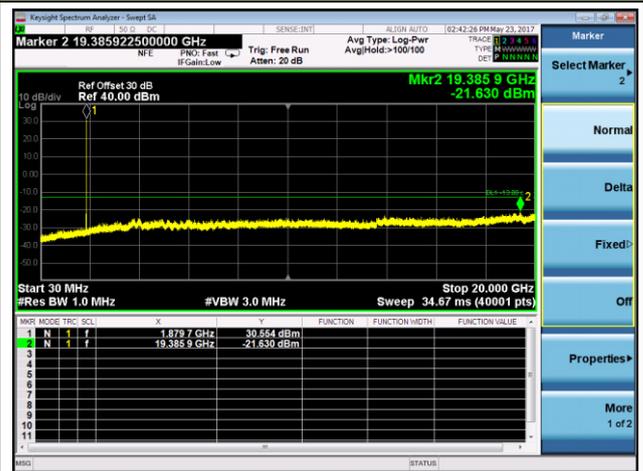


PCS1900 Conducted Spurious Emission

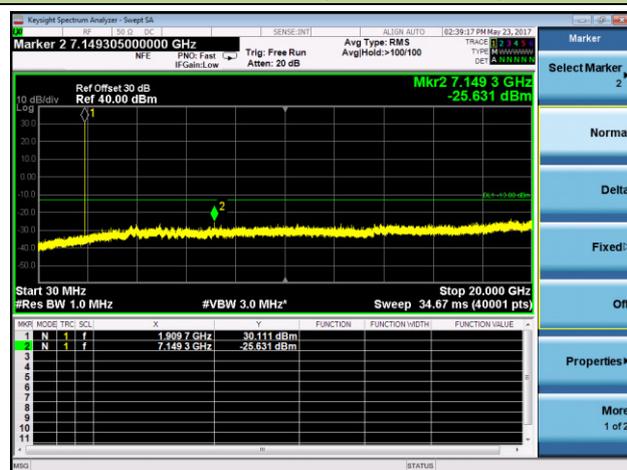
Channel 512 (1850.20MHz)



Channel 661 (1880.00MHz)

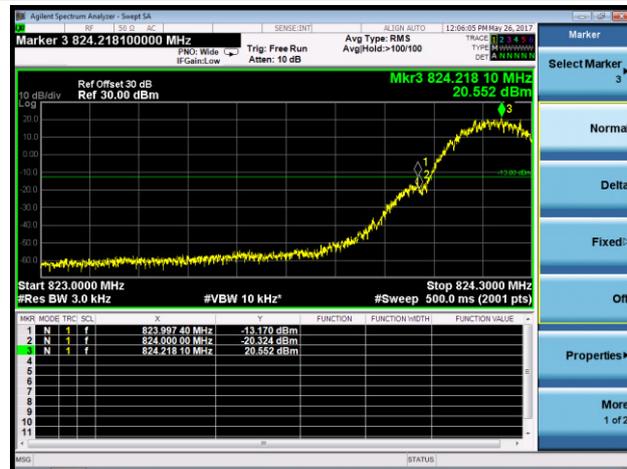


Channel 810 (1909.80MHz)

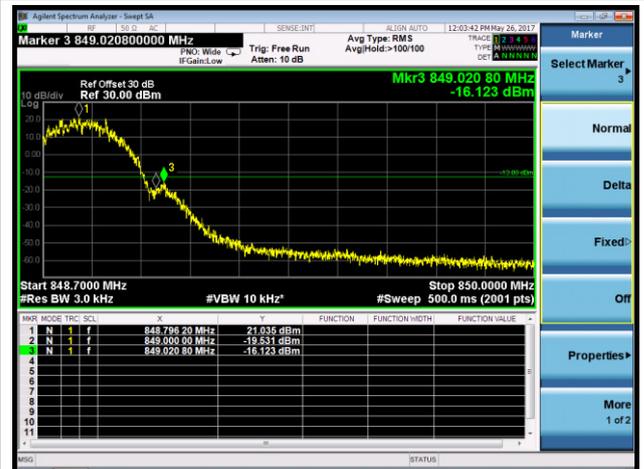


EDGE850 Band Edge

Channel 128 (824.20MHz)

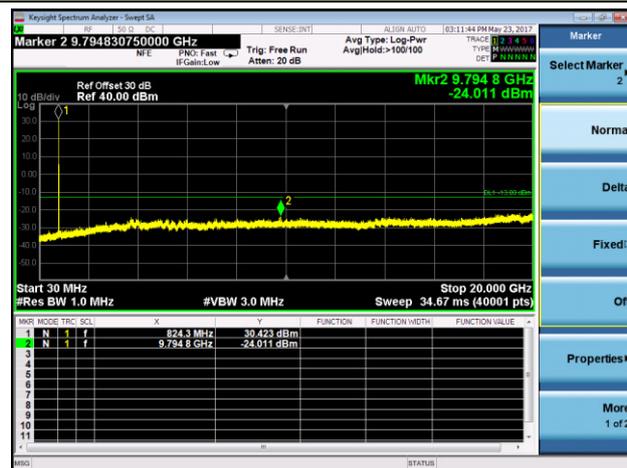


Channel 251 (848.80MHz)

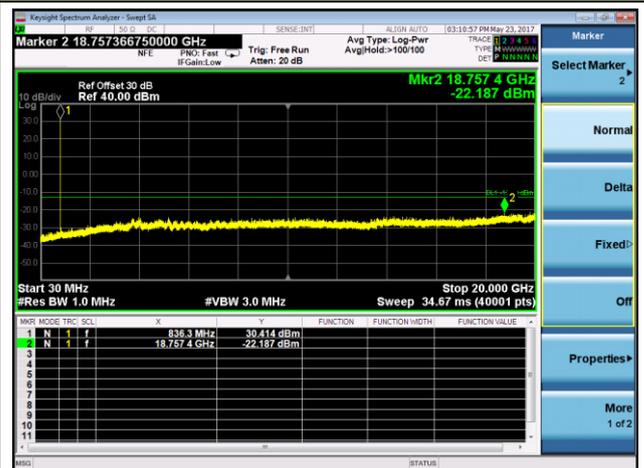


EDGE850 Conducted Spurious Emission

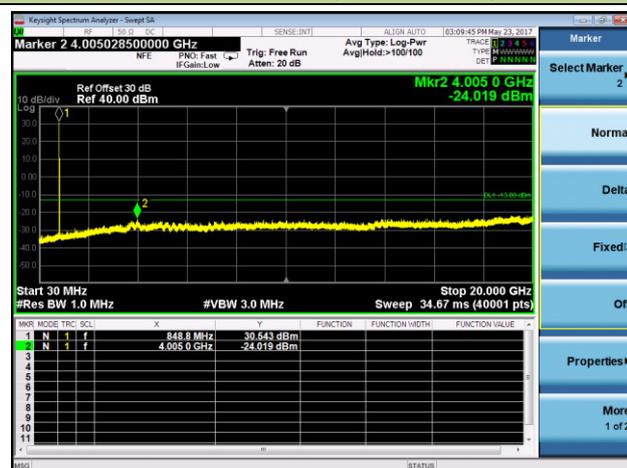
Channel 128 (824.20MHz)



Channel 189 (836.40MHz)

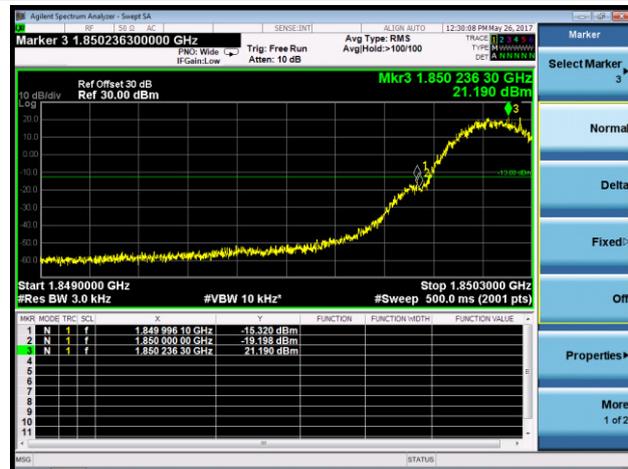


Channel 251 (848.80MHz)

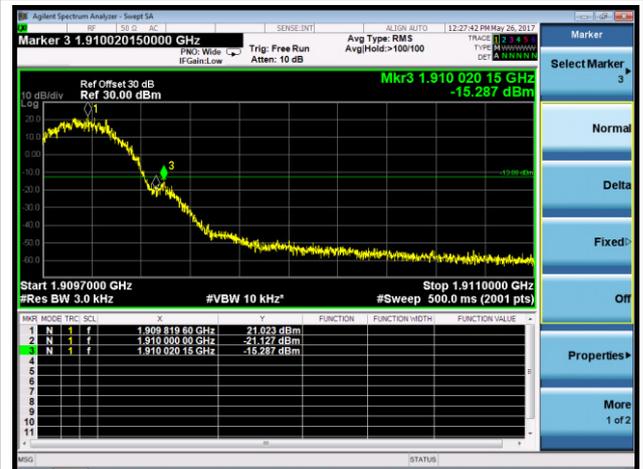


EDGE1900 Band Edge

Channel 512 (1850.20MHz)

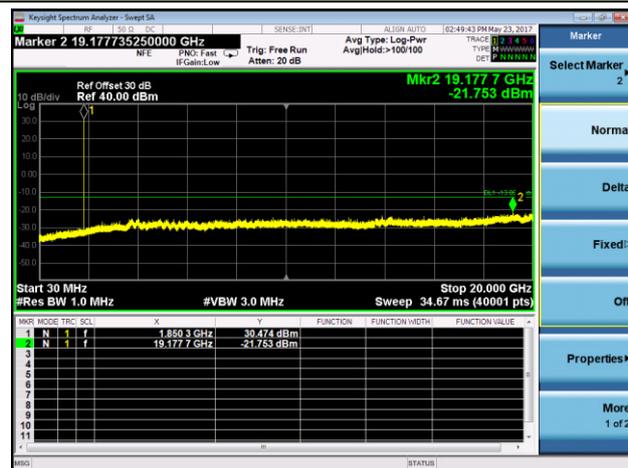


Channel 810 (1909.80MHz)

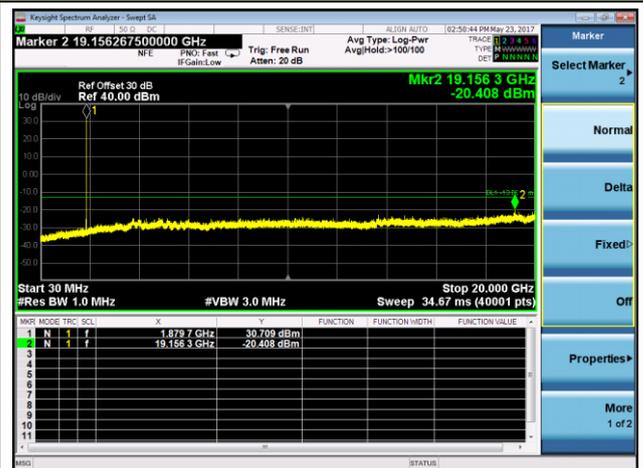


EDGE1900 Conducted Spurious Emission

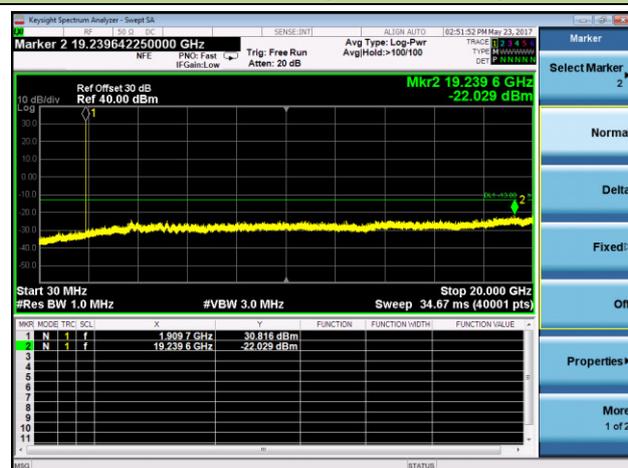
Channel 512 (1850.20MHz)



Channel 661 (1880.00MHz)

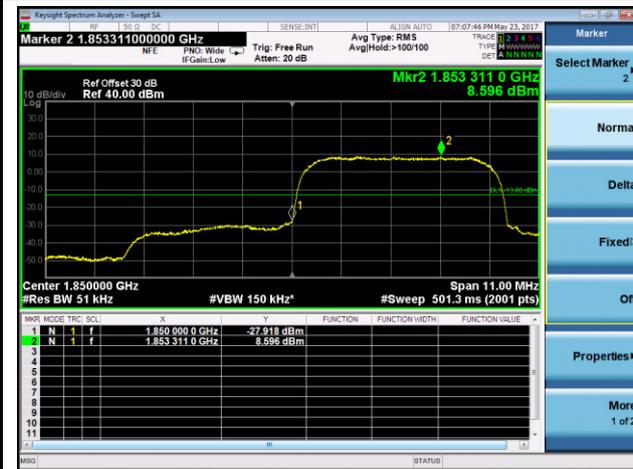


Channel 810 (1909.80MHz)



WCDMA Band II Band Edge

Channel 9262 (1852.4MHz)

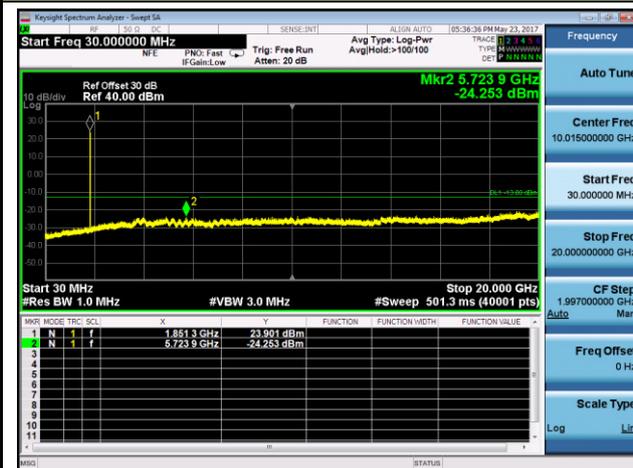


Channel 9538 (1907.6MHz)

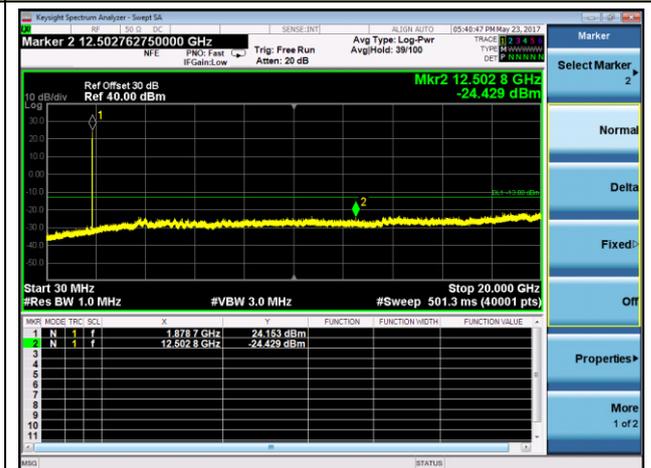


WCDMA Band II Conducted Spurious Emission

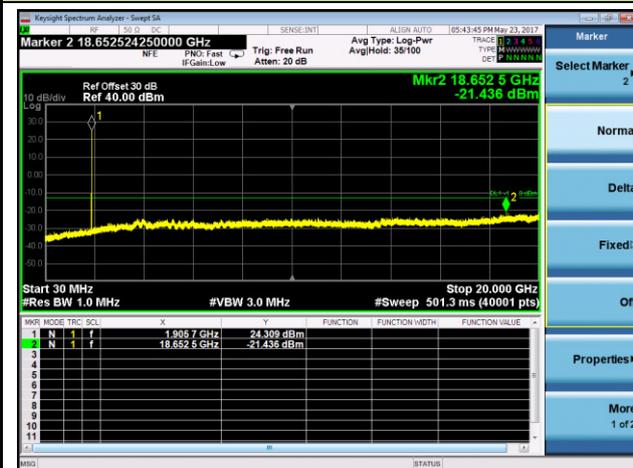
Channel 9262 (1852.4MHz)



Channel 9400 (1880.0MHz)

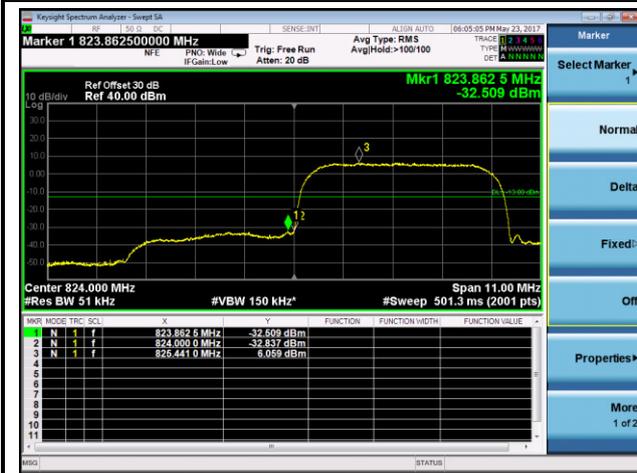


Channel 9538 (1907.6MHz)



WCDMA Band V Band Edge

Channel 4132 (826.4MHz)

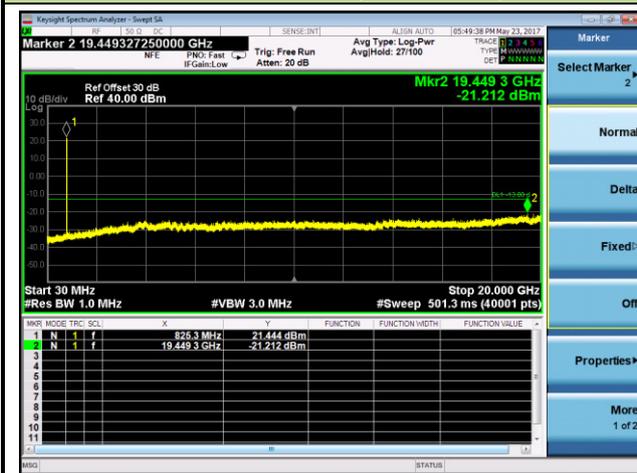


Channel 4233 (846.6MHz)

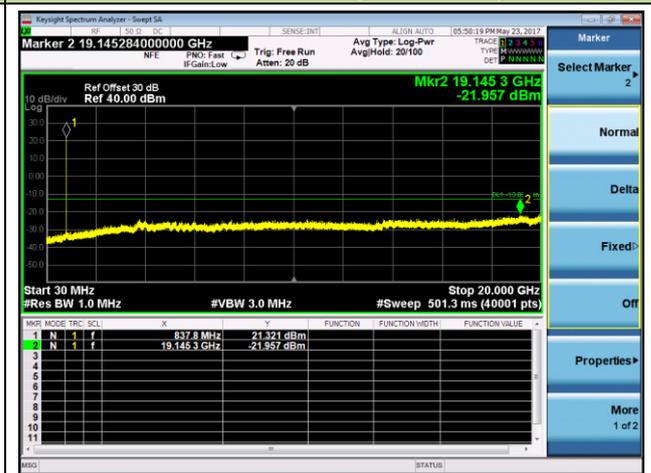


WCDMA Band V Conducted Spurious Emission

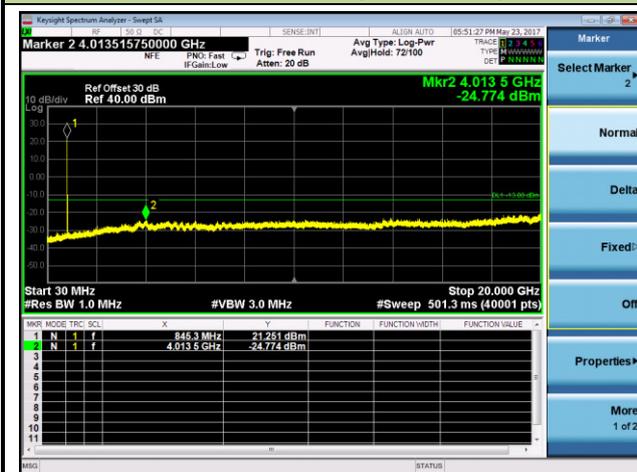
Channel 4132 (826.4MHz)



Channel 4182 (836.4MHz)



Channel 4233 (846.6MHz)



7.4. Conducted & Radiated Power and Radiated Spurious Emissions

7.4.1. Test Limit

Radiated Power

For FCC Part 22.913(a)(2):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

For FCC Part 24.232(b):

The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

Radiated Spurious Emissions

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

7.4.2. Test Procedure Used

KDB 971168 D01v02r02 - Section 7.0 & ANSI/TIA-603-D-2010

7.4.3. Test Setting

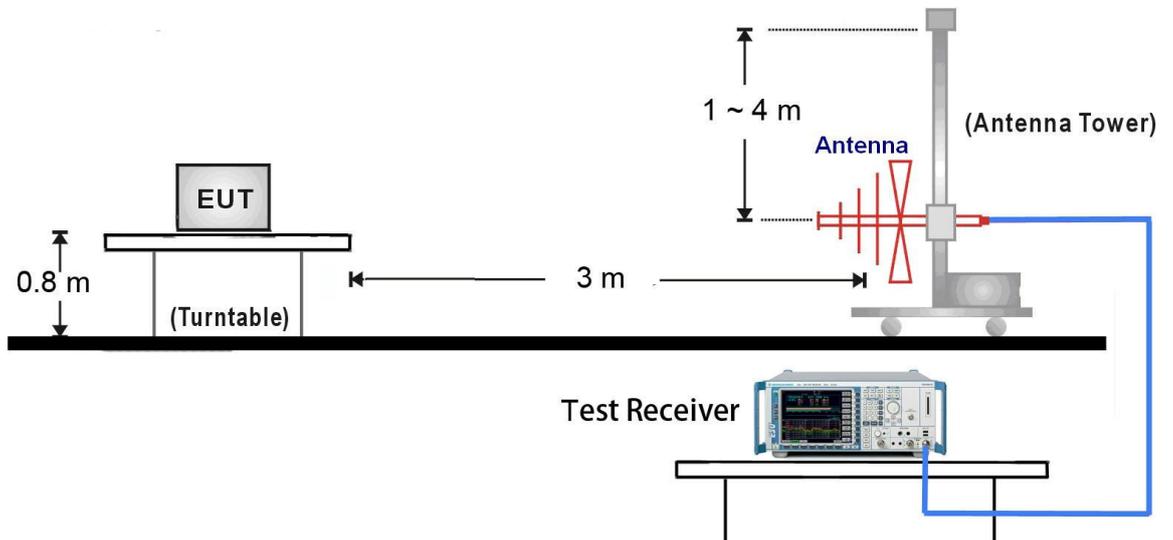
1. The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
3. The output of the test antenna shall be connected to the measuring receiver.
4. The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
5. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
6. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
7. The test antenna shall be raised and lowered again through the specified range of height

until a maximum signal level is detected by the measuring receiver.

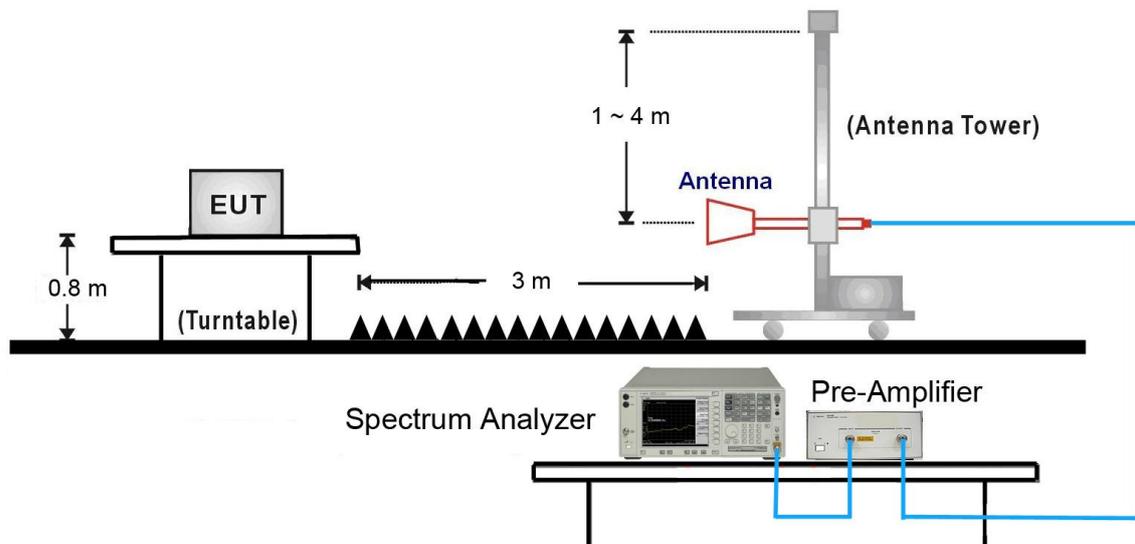
8. The maximum signal level detected by the measuring receiver shall be noted.
9. The transmitter shall be replaced by a substitution antenna.
10. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
11. The substitution antenna shall be connected to a calibrated signal generator.
12. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
13. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
14. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
16. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
17. Test site anechoic chamber refer to ANSI C63.4: 2009.

7.4.4. Test Setup

30MHz ~ 1GHz Test Setup:



1GHz ~ 20GHz Test Setup:



7.4.5. Test Result

Product	Mobile Computer	Temperature	25°C
Test Engineer	Polly Zong	Relative Humidity	54%
Test Site	TR3	Test Date	2017/05/20

Mode	Frequency (MHz)	Avg. Burst Power (dBm)	Duty Cycle Factor (dB)	Frame Power (dBm)	Radiated Power (dBm)
GSM850	824.2	32.53	-9.00	23.53	34.24
	836.4	32.50	-9.00	23.50	34.40
	848.8	32.51	-9.00	23.51	34.39
GPRS850 (1 Slot)	824.2	32.54	-9.00	23.54	34.26
	836.4	32.53	-9.00	23.53	34.44
	848.8	32.50	-9.00	23.50	34.38
GPRS850 (2 Slot)	824.2	30.69	-6.00	24.69	32.38
	836.4	30.38	-6.00	24.38	32.29
	848.8	30.40	-6.00	24.40	32.27
GPRS850 (3 Slot)	824.2	28.20	-4.25	23.95	29.93
	836.4	28.24	-4.25	23.99	30.16
	848.8	28.16	-4.25	23.91	30.02
GPRS850 (4 Slot)	824.2	27.12	-3.00	24.12	28.83
	836.4	27.07	-3.00	24.07	28.99
	848.8	27.02	-3.00	24.02	28.88
EDGE850 (1 Slot)	824.2	26.94	-9.00	17.94	28.64
	836.4	26.92	-9.00	17.92	28.82
	848.8	26.88	-9.00	17.88	28.76
EDGE850 (2 Slot)	824.2	26.84	-6.00	20.84	28.54
	836.4	26.77	-6.00	20.77	28.68
	848.8	26.73	-6.00	20.73	28.61
EDGE850 (3 Slot)	824.2	26.68	-4.25	22.43	28.39
	836.4	23.61	-4.25	19.36	25.51
	848.8	26.52	-4.25	22.27	28.40
EDGE850 (4 Slot)	824.2	24.58	-3.00	21.58	26.30
	836.4	24.50	-3.00	21.50	26.42
	848.8	24.42	-3.00	21.42	26.28

Mode	Frequency (MHz)	Avg. Burst Power (dBm)	Duty Cycle Factor (dB)	Frame Power (dBm)	Radiated Power (dBm)
PCS1900	1850.2	29.51	-9.00	20.51	30.02
	1880.0	29.49	-9.00	20.49	30.10
	1909.8	29.47	-9.00	20.47	29.99
GPRS1900 (1 Slot)	1850.2	29.54	-9.00	20.54	30.03
	1880.0	29.41	-9.00	20.41	30.01
	1909.8	29.28	-9.00	20.28	29.80
GPRS1900 (2 Slot)	1850.2	27.08	-6.00	21.08	27.58
	1880.0	26.97	-6.00	20.97	27.57
	1909.8	26.93	-6.00	20.93	27.45
GPRS1900 (3 Slot)	1850.2	25.05	-4.25	20.80	25.55
	1880.0	25.03	-4.25	20.78	25.63
	1909.8	24.96	-4.25	20.71	25.48
GPRS1900 (4 Slot)	1850.2	23.86	-3.00	20.86	24.36
	1880.0	23.67	-3.00	20.67	24.27
	1909.8	23.48	-3.00	20.48	24.00
EDGE1900 (1 Slot)	1850.2	25.28	-9.00	16.28	25.78
	1880.0	25.26	-9.00	16.26	25.86
	1909.8	25.51	-9.00	16.51	26.03
EDGE1900 (2 Slot)	1850.2	25.17	-6.00	19.17	25.67
	1880.0	25.13	-6.00	19.13	25.73
	1909.8	25.36	-6.00	19.36	25.88
EDGE1900 (3 Slot)	1850.2	25.06	-4.25	20.81	25.56
	1880.0	25.02	-4.25	20.77	25.62
	1909.8	24.93	-4.25	20.68	25.45
EDGE1900 (4 Slot)	1850.2	23.83	-3.00	20.83	24.33
	1880.0	23.67	-3.00	20.67	24.27
	1909.8	24.13	-3.00	21.13	24.65

Note1: Frame Power (dBm) = Avg. Burst Power (dBm) + Duty Cycle Factor (dB)

Note2: Radiated Power (dBm) = Avg. Burst Power (dBm) + Antenna Gain (dBi) - Cable Loss (dB)

Mode	3GPP Subtest	Conducted Power (dBm)			MPR	Radiated Power (dBm)		
		Band II Channel				Band II Channel		
		9262	9400	9538		9262	9400	9538
WCDMA R99	1	23.56	23.63	23.53	N/A	24.07	24.22	24.06
Rel5 HSDPA	1	21.56	22.04	21.14	0	22.06	22.66	21.68
	2	21.42	21.64	21.19	0	21.91	22.25	21.71
	3	21.10	21.14	21.58	0.5	21.61	21.75	22.10
	4	21.69	21.67	21.75	0.5	22.21	22.28	22.29
Rel6 HSUPA	1	21.75	21.54	21.43	0.0	22.25	22.15	21.95
	2	21.53	21.35	21.26	2.0	22.05	21.95	21.78
	3	21.15	21.09	21.08	1.0	21.66	21.70	21.61
	4	21.02	20.97	20.96	2.0	21.53	21.59	21.48
	5	20.87	20.86	20.75	0.0	21.38	21.47	21.27

Mode	3GPP Subtest	Conducted Power (dBm)			MPR	Radiated Power (dBm)		
		Band V Channel				Band V Channel		
		4132	4182	4233		4132	4182	4233
WCDMA R99	1	22.18	22.25	22.21	N/A	20.47	20.32	20.34
Rel5 HSDPA	1	22.20	22.18	22.23	0	20.48	20.28	20.35
	2	21.92	21.95	21.97	0	20.22	20.04	20.09
	3	21.75	21.70	21.73	0.5	20.04	19.80	19.86
	4	21.58	21.43	21.53	0.5	19.85	19.53	19.65
Rel6 HSUPA	1	22.26	22.24	22.21	0.0	20.55	20.32	20.36
	2	21.95	21.97	21.93	2.0	20.24	20.07	20.05
	3	21.73	21.70	21.75	1.0	20.01	19.80	19.89
	4	21.49	21.52	21.47	2.0	19.78	19.63	19.59
	5	21.18	21.25	21.29	0.0	19.47	19.35	19.42

NOTES:

1. Radiated Power (dBm) = Conducted Power (dBm) + Antenna Gain (dBi) - Cable Loss (dB)
2. This device was tested under all configurations and the highest power is reported in GSM mode.
This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA and GSM/GPRS/EDGE capabilities. For WCDMA and HSPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps rate.

3. This unit was tested with its standard adapter.
4. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The “H” positioning is defined with the EUT lying flat on the test surface, the “H2” positioning is defined with the EUT standing up on its side, and the “V” positioning is defined with the EUT standing upright. The worst case test configuration was found in the EUT in the H positioning. The data reported in the table above was measured in this test setup.

Radiated Spurious Emission

GSM850

Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 128 (824.20MHz)							
1648.40	V	-72.79	0.66	9.77	-63.68	-13.00	-50.68
2472.60	V	-73.05	0.81	10.49	-63.37	-13.00	-50.37
1648.40	H	-73.60	0.66	9.77	-64.49	-13.00	-51.49
2472.60	H	-72.90	0.81	10.49	-63.22	-13.00	-50.22
Middle Channel 189 (836.40MHz)							
1672.80	V	-74.35	0.67	9.94	-65.08	-13.00	-52.08
2509.20	V	-71.56	0.82	10.61	-61.77	-13.00	-48.77
1672.80	H	-73.90	0.67	9.94	-64.63	-13.00	-51.63
2509.20	H	-71.52	0.82	10.61	-61.73	-13.00	-48.73
High Channel 251 (848.80MHz)							
1697.60	V	-73.57	0.67	10.11	-64.13	-13.00	-51.13
2546.40	V	-72.49	0.83	10.68	-62.64	-13.00	-49.64
1697.60	H	-73.53	0.67	10.11	-64.09	-13.00	-51.09
2546.40	H	-71.96	0.83	10.68	-62.11	-13.00	-49.11

Note:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $ERP \text{ (dBm)} = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBd)}$

PCS1900

Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 512 (1850.20MHz)							
3700.40	V	-70.70	1.02	12.69	-59.03	-13.00	-46.03
5550.60	V	-70.15	1.25	13.15	-58.25	-13.00	-45.25
3700.40	H	-70.77	1.02	12.69	-59.10	-13.00	-46.10
5550.60	H	-68.94	1.25	13.15	-57.04	-13.00	-44.04
Middle Channel 661 (1880.00MHz)							
3760.00	V	-71.06	1.01	12.73	-59.34	-13.00	-46.34
5640.00	V	-69.39	1.26	13.14	-57.51	-13.00	-44.51
3760.00	H	-71.43	1.01	12.73	-59.71	-13.00	-46.71
5640.00	H	-69.79	1.26	13.14	-57.91	-13.00	-44.91
High Channel 810 (1909.80MHz)							
3819.60	V	-70.73	1.02	12.73	-59.02	-13.00	-46.02
5729.40	V	-69.26	1.27	13.11	-57.42	-13.00	-44.42
3819.60	H	-70.73	1.02	12.73	-59.02	-13.00	-46.02
5729.40	H	-69.58	1.27	13.11	-57.74	-13.00	-44.74

Note:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP (dBm) = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBi)}$

EDGE850

Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 128 (824.20MHz)							
1648.40	V	-72.37	0.66	9.77	-63.26	-13.00	-50.26
2472.60	V	-73.10	0.81	10.49	-63.42	-13.00	-50.42
1648.40	H	-73.27	0.66	9.77	-64.16	-13.00	-51.16
2472.60	H	-73.10	0.81	10.49	-63.42	-13.00	-50.42
Middle Channel 189 (836.40MHz)							
1672.80	V	-74.39	0.67	9.94	-65.12	-13.00	-52.12
2509.20	V	-71.15	0.82	10.61	-61.36	-13.00	-48.36
1672.80	H	-73.80	0.67	9.94	-64.53	-13.00	-51.53
2509.20	H	-71.32	0.82	10.61	-61.53	-13.00	-48.53
High Channel 251 (848.80MHz)							
1697.60	V	-73.53	0.67	10.11	-64.09	-13.00	-51.09
2546.40	V	-72.40	0.83	10.68	-62.55	-13.00	-49.55
1697.60	H	-73.56	0.67	10.11	-64.12	-13.00	-51.12
2546.40	H	-71.97	0.83	10.68	-62.12	-13.00	-49.12

Note:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $ERP (dBm) = SG \text{ Reading } (dBm) - Cable \text{ Loss } (dB) + Substitute \text{ Antenna Gain } (dBd)$

EDGE1900

Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 512 (1850.20MHz)							
3700.40	V	-71.01	1.02	12.69	-59.34	-13.00	-46.34
5550.60	V	-70.44	1.25	13.15	-58.54	-13.00	-45.54
3700.40	H	-71.31	1.02	12.69	-59.64	-13.00	-46.64
5550.60	H	-69.02	1.25	13.15	-57.12	-13.00	-44.12
Middle Channel 661 (1880.00MHz)							
3760.00	V	-71.16	1.01	12.73	-59.44	-13.00	-46.44
5640.00	V	-69.44	1.26	13.14	-57.56	-13.00	-44.56
3760.00	H	-71.10	1.01	12.73	-59.38	-13.00	-46.38
5640.00	H	-69.72	1.26	13.14	-57.84	-13.00	-44.84
High Channel 810 (1909.80MHz)							
3819.60	V	-70.88	1.02	12.73	-59.17	-13.00	-46.17
5729.40	V	-69.23	1.27	13.11	-57.39	-13.00	-44.39
3819.60	H	-71.68	1.02	12.73	-59.97	-13.00	-46.97
5729.40	H	-69.37	1.27	13.11	-57.53	-13.00	-44.53

Note:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $EIRP (dBm) = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBi)}$

WCDMA Band II

Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 9262 (1852.4MHz)							
3703.00	V	-66.81	1.02	12.69	-55.14	-13.00	-42.14
5556.00	V	-55.18	1.25	13.15	-43.28	-13.00	-30.28
3703.00	H	-62.49	1.02	12.69	-50.82	-13.00	-37.82
5556.00	H	-54.76	1.25	13.15	-42.86	-13.00	-29.86
Middle Channel 9400 (1880.0MHz)							
3762.50	V	-68.37	1.02	12.73	-56.66	-13.00	-43.66
5641.00	V	-61.40	1.26	13.14	-49.52	-13.00	-36.52
3762.50	H	-65.61	1.02	12.73	-53.90	-13.00	-40.90
5641.00	H	-63.12	1.26	13.14	-51.24	-13.00	-38.24
High Channel 9538 (1907.6MHz)							
3813.50	V	-69.92	1.02	12.74	-58.20	-13.00	-45.20
5717.50	V	-64.83	1.27	13.11	-52.99	-13.00	-39.99
3813.50	H	-66.44	1.02	12.74	-54.72	-13.00	-41.72
5717.50	H	-64.62	1.27	13.11	-52.78	-13.00	-39.78

Note:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $ERP (dBm) = SG \text{ Reading } (dBm) - Cable \text{ Loss } (dB) + Substitute \text{ Antenna Gain } (dBd)$

WCDMA Band V

Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 4132 (826.40MHz)							
1652.80	V	-72.88	0.66	9.80	-63.74	-13.00	-50.74
2479.20	V	-73.05	0.82	10.52	-63.35	-13.00	-50.35
1652.80	H	-72.65	0.66	9.80	-63.51	-13.00	-50.51
2479.20	H	-72.41	0.82	10.52	-62.71	-13.00	-49.71
Middle Channel 4182 (836.40MHz)							
1672.80	V	-73.41	0.67	9.94	-64.14	-13.00	-51.14
2509.20	V	-71.93	0.82	10.61	-62.14	-13.00	-49.14
1672.80	H	-73.74	0.67	9.94	-64.47	-13.00	-51.47
2509.20	H	-72.91	0.82	10.61	-63.12	-13.00	-50.12
High Channel 4233 (846.60MHz)							
1692.80	V	-72.30	0.67	10.08	-62.89	-13.00	-49.89
2539.20	V	-71.76	0.82	10.67	-61.91	-13.00	-48.91
1692.80	H	-72.94	0.67	10.08	-63.53	-13.00	-50.53
2539.20	H	-72.70	0.82	10.67	-62.85	-13.00	-49.85

Note:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. $ERP (dBm) = SG \text{ Reading } (dBm) - Cable \text{ Loss } (dB) + Substitute \text{ Antenna Gain } (dBd)$

7.5. Peak-Average Ratio

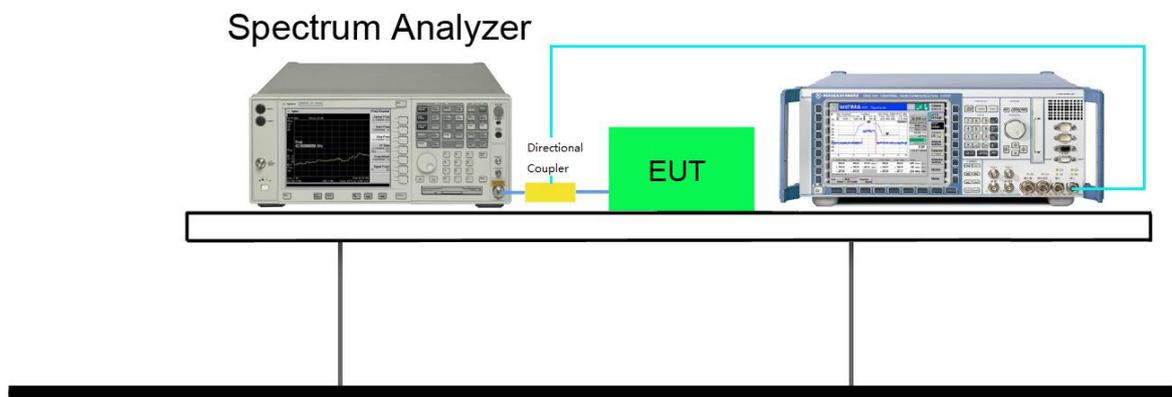
7.5.1. Test Limit

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

7.5.2. Test Procedure

KDB 971168 D01v02r02 - Section 5.7 & ANSI/TIA-603-D-2010

7.5.3. Test Setup

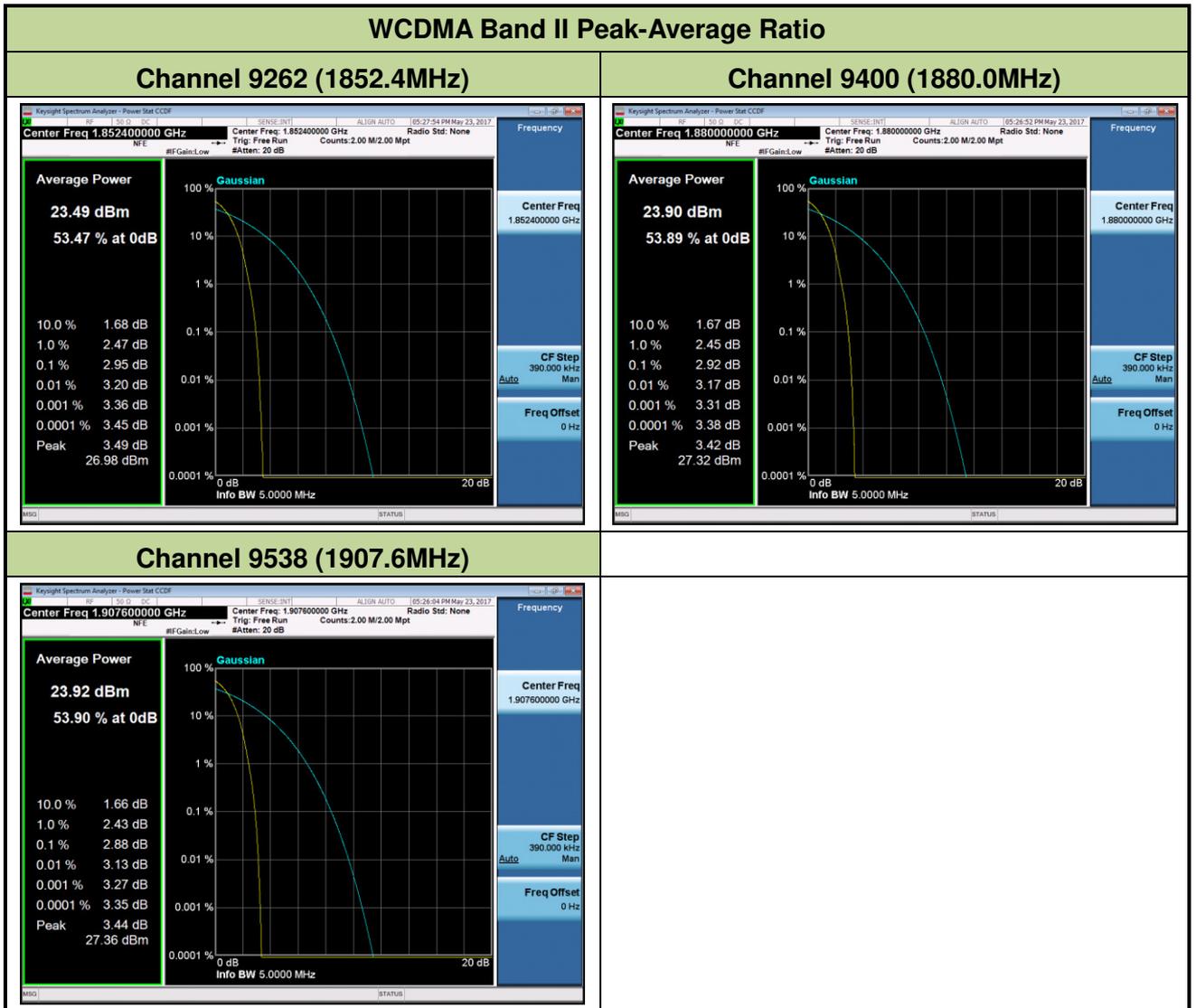


7.5.4. Test Result

Product	Mobile Computer	Temperature	25°C
Test Engineer	Polly Zong	Relative Humidity	52%
Test Site	TR3	Test Date	2017/05/23







7.6. Frequency Stability Under Temperature & Voltage Variations

7.6.1. Test Limit

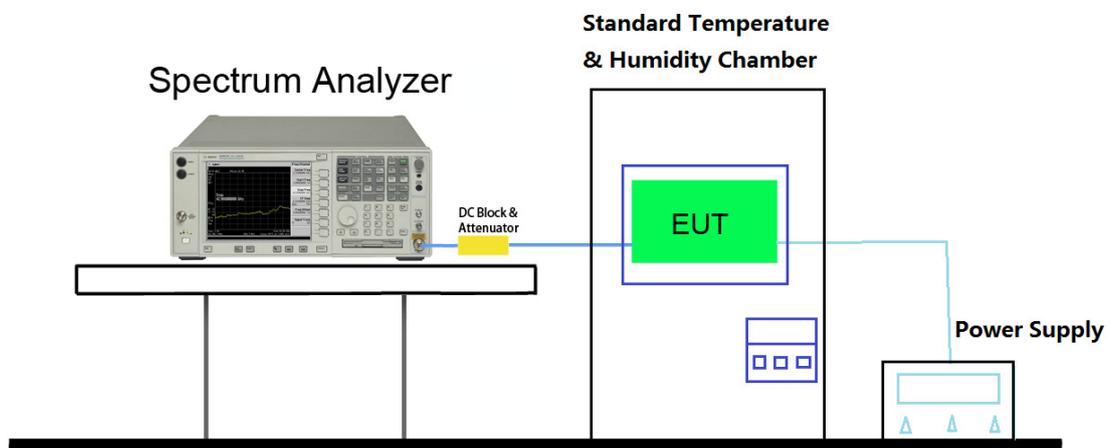
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Limit	$< \pm 2.5$ ppm
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7.6.2. Test Procedure

KDB 971168 D01v02r02 - Section 9.0 & ANSI/TIA-603-D-2010

7.6.3. Test Setup



7.6.4. Test Result

Product	Mobile Computer	Temperature	25°C
Test Engineer	Polly Zong	Relative Humidity	52%
Test Site	TR3	Test Date	2017/05/23
Test Mode	GSM850	Operating Frequency	836.4MHz (Channel 189)

Voltage (%)	Power (V _{DC})	TEMP (%)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)	Limit (%)	Result
100%	3.7	+20(Ref)	836,400,000	76	0.000009	±0.00025	Pass
100%		-30	836,400,000	99	0.000012	±0.00025	Pass
100%		-20	836,400,000	124	0.000015	±0.00025	Pass
100%		-10	836,400,000	117	0.000014	±0.00025	Pass
100%		0	836,400,000	63	0.000008	±0.00025	Pass
100%		+10	836,400,000	17	0.000002	±0.00025	Pass
100%		+20	836,400,000	-22	-0.000003	±0.00025	Pass
100%		+30	836,400,000	-15	-0.000002	±0.00025	Pass
100%		+40	836,400,000	-35	-0.000004	±0.00025	Pass
100%		+50	836,400,000	-61	-0.000007	±0.00025	Pass
115%	4.2	+20	836,400,000	-25	-0.000003	±0.00025	Pass
BAT.ENDPOINT	3.6	+20	836,400,000	-28	-0.000003	±0.00025	Pass

Product	Mobile Computer	Temperature	25°C
Test Engineer	Polly Zong	Relative Humidity	52%
Test Site	TR3	Test Date	2017/05/23
Test Mode	PCS1900	Operating Frequency	1880.0MHz (Channel 661)

Voltage (%)	Power (V _{DC})	TEMP (%)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)	Limit (%)	Result
100%	3.7	+20(Ref)	1880,000,000	87	0.000005	±0.00025	Pass
100%		-30	1880,000,000	90	0.000005	±0.00025	Pass
100%		-20	1880,000,000	78	0.000004	±0.00025	Pass
100%		-10	1880,000,000	43	0.000002	±0.00025	Pass
100%		0	1880,000,000	69	0.000004	±0.00025	Pass
100%		+10	1880,000,000	-44	-0.000002	±0.00025	Pass
100%		+20	1880,000,000	13	0.000001	±0.00025	Pass
100%		+30	1880,000,000	88	0.000005	±0.00025	Pass
100%		+40	1880,000,000	24	0.000001	±0.00025	Pass
100%		+50	1880,000,000	27	0.000001	±0.00025	Pass
115%	4.2	+20	1880,000,000	89	0.000005	±0.00025	Pass
BAT.ENDPOINT	3.6	+20	1880,000,000	57	0.000003	±0.00025	Pass

Product	Mobile Computer	Temperature	25°C
Test Engineer	Polly Zong	Relative Humidity	52%
Test Site	TR3	Test Date	2017/05/23
Test Mode	EDGE850	Operating Frequency	836.4MHz (Channel 189)

Voltage (%)	Power (V _{DC})	TEMP (%)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)	Limit (%)	Result
100%	3.7	+20(Ref)	836,400,000	87	0.000010	±0.00025	Pass
100%		-30	836,400,000	23	0.000003	±0.00025	Pass
100%		-20	836,400,000	81	0.000010	±0.00025	Pass
100%		-10	836,400,000	47	0.000006	±0.00025	Pass
100%		0	836,400,000	110	0.000013	±0.00025	Pass
100%		+10	836,400,000	-31	-0.000004	±0.00025	Pass
100%		+20	836,400,000	-90	-0.000011	±0.00025	Pass
100%		+30	836,400,000	-39	-0.000005	±0.00025	Pass
100%		+40	836,400,000	-41	-0.000005	±0.00025	Pass
100%		+50	836,400,000	-105	-0.000013	±0.00025	Pass
115%		4.2	+20	836,400,000	-21	-0.000003	±0.00025
BAT.ENDPOINT	3.6	+20	836,400,000	-38	-0.000005	±0.00025	Pass

Product	Mobile Computer	Temperature	25°C
Test Engineer	Polly Zong	Relative Humidity	52%
Test Site	TR3	Test Date	2017/05/23
Test Mode	EDGE1900	Operating Frequency	1880.0MHz (Channel 661)

Voltage (%)	Power (V _{DC})	TEMP (%)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)	Limit (%)	Result
100%	3.7	+20(Ref)	1880,000,000	87	0.000005	±0.00025	Pass
100%		-30	1880,000,000	95	0.000005	±0.00025	Pass
100%		-20	1880,000,000	-29	-0.000002	±0.00025	Pass
100%		-10	1880,000,000	-26	-0.000001	±0.00025	Pass
100%		0	1880,000,000	-22	-0.000001	±0.00025	Pass
100%		+10	1880,000,000	38	0.000002	±0.00025	Pass
100%		+20	1880,000,000	123	0.000007	±0.00025	Pass
100%		+30	1880,000,000	87	0.000005	±0.00025	Pass
100%		+40	1880,000,000	-57	-0.000003	±0.00025	Pass
100%		+50	1880,000,000	102	0.000005	±0.00025	Pass
115%	4.2	+20	1880,000,000	96	0.000005	±0.00025	Pass
BAT.ENDPOINT	3.6	+20	1880,000,000	49	0.000003	±0.00025	Pass

Product	Mobile Computer	Temperature	25°C
Test Engineer	Polly Zong	Relative Humidity	52%
Test Site	TR3	Test Date	2017/05/23
Test Mode	WCDMA Band II	Operating Frequency	1880.0MHz (Channel 9400)

Voltage (%)	Power (V _{DC})	TEMP (%)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)	Limit (%)	Result
100%	3.7	+20(Ref)	1880,000,000	87	0.000005	±0.00025	Pass
100%		-30	1880,000,000	62	0.000003	±0.00025	Pass
100%		-20	1880,000,000	60	0.000003	±0.00025	Pass
100%		-10	1880,000,000	-82	-0.000004	±0.00025	Pass
100%		0	1880,000,000	-86	-0.000005	±0.00025	Pass
100%		+10	1880,000,000	-79	-0.000004	±0.00025	Pass
100%		+20	1880,000,000	-56	-0.000003	±0.00025	Pass
100%		+30	1880,000,000	-72	-0.000004	±0.00025	Pass
100%		+40	1880,000,000	-59	-0.000003	±0.00025	Pass
100%		+50	1880,000,000	49	0.000003	±0.00025	Pass
115%	4.2	+20	1880,000,000	49	0.000003	±0.00025	Pass
BAT.ENDPOINT	3.6	+20	1880,000,000	-14	-0.000001	±0.00025	Pass

Product	Mobile Computer	Temperature	25°C
Test Engineer	Polly Zong	Relative Humidity	52%
Test Site	TR3	Test Date	2017/05/23
Test Mode	WCDMA Band V	Operating Frequency	836.4MHz (Channel 4182)

Voltage (%)	Power (V _{DC})	TEMP (%)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)	Limit (%)	Result
100%	3.7	+20(Ref)	836,400,000	87	0.000010	±0.00025	Pass
100%		-30	836,400,000	-48	-0.000006	±0.00025	Pass
100%		-20	836,400,000	-30	-0.000004	±0.00025	Pass
100%		-10	836,400,000	-65	-0.000008	±0.00025	Pass
100%		0	836,400,000	28	0.000003	±0.00025	Pass
100%		+10	836,400,000	16	0.000002	±0.00025	Pass
100%		+20	836,400,000	102	0.000012	±0.00025	Pass
100%		+30	836,400,000	70	0.000008	±0.00025	Pass
100%		+40	836,400,000	46	0.000005	±0.00025	Pass
100%		+50	836,400,000	64	0.000008	±0.00025	Pass
115%	4.2	+20	836,400,000	64	0.000008	±0.00025	Pass
BAT.ENDPOINT	3.6	+20	836,400,000	43	0.000005	±0.00025	Pass

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Mobile Computer FCC ID: HD5-EDA50211** compliance with all the requirements of Parts 2, 22, 24 of the FCC Rules.

————— The End —————