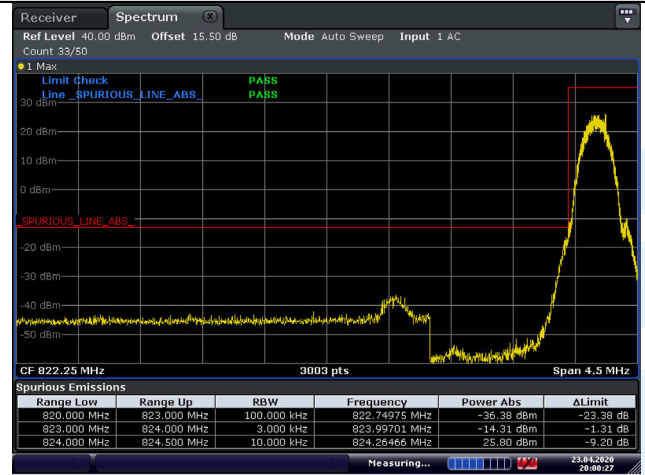


GSM

GPRS

Lowest Channel



Receiver: Spectrum (x) | Ref Level: 40.00 dBm | Offset: 15.50 dB | Mode: Auto Sweep | Input: 1 AC | Count: 33/50

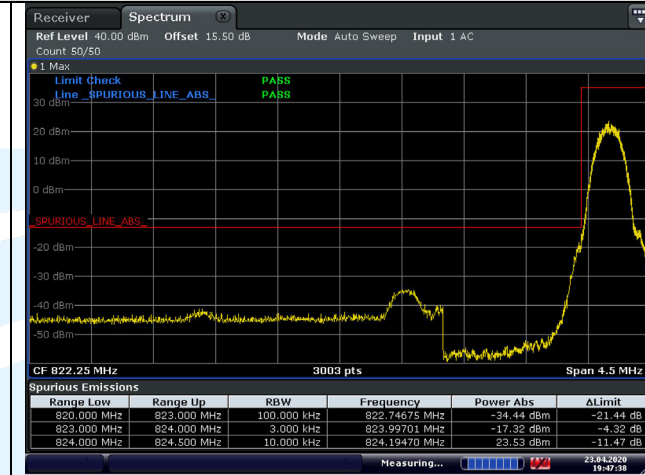
Limit Check: PASS | SPURIOUS_LINE_ABS: PASS

CF 822.25 MHz | 3003 pts | Span 4.5 MHz

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	3.000 kHz	822.74975 MHz	-26.39 dBm	-23.80 dB
823.000 MHz	824.000 MHz	3.000 kHz	823.99701 MHz	-14.31 dBm	-1.31 dB
824.000 MHz	824.500 MHz	10.000 kHz	824.26466 MHz	25.80 dBm	-9.20 dB

Measuring... 23.84.2628 29:00:27

Date: 23.APR.2020 20:00:27



Receiver: Spectrum (x) | Ref Level: 40.00 dBm | Offset: 15.50 dB | Mode: Auto Sweep | Input: 1 AC | Count: 50/50

Limit Check: PASS | SPURIOUS_LINE_ABS: PASS

CF 822.25 MHz | 3003 pts | Span 4.5 MHz

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	3.000 kHz	822.74675 MHz	-24.44 dBm	-21.44 dB
823.000 MHz	824.000 MHz	3.000 kHz	823.99701 MHz	-17.32 dBm	-4.32 dB
824.000 MHz	824.500 MHz	10.000 kHz	824.19470 MHz	23.53 dBm	-11.47 dB

Measuring... 23.84.2628 19:47:38

Date: 23.APR.2020 19:47:38

Highest Channel



Receiver: Spectrum (x) | Ref Level: 40.00 dBm | Offset: 15.50 dB | Mode: Auto Sweep | Input: 1 AC | Count: 50/50

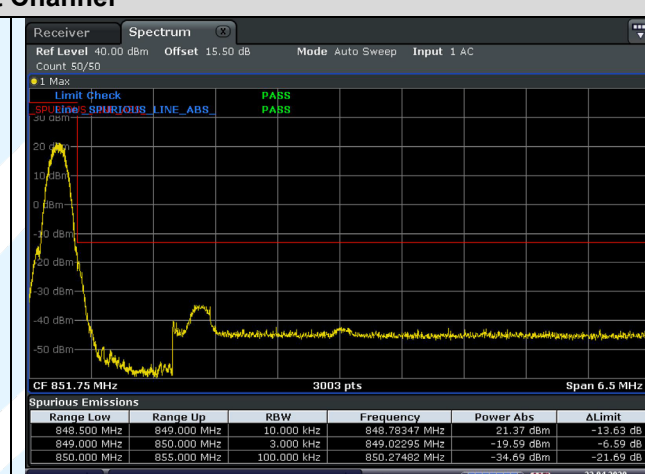
Limit Check: PASS | SPURIOUS_LINE_ABS: PASS

CF 851.75 MHz | 3003 pts | Span 6.5 MHz

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
848.500 MHz	849.000 MHz	10.000 kHz	848.87188 MHz	25.39 dBm	-9.61 dB
849.000 MHz	850.000 MHz	3.000 kHz	849.01896 MHz	-15.77 dBm	-2.77 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.30147 MHz	-35.75 dBm	-22.75 dB

Measuring... 23.84.2628 19:57:28

Date: 23.APR.2020 19:57:26



Receiver: Spectrum (x) | Ref Level: 40.00 dBm | Offset: 15.50 dB | Mode: Auto Sweep | Input: 1 AC | Count: 50/50

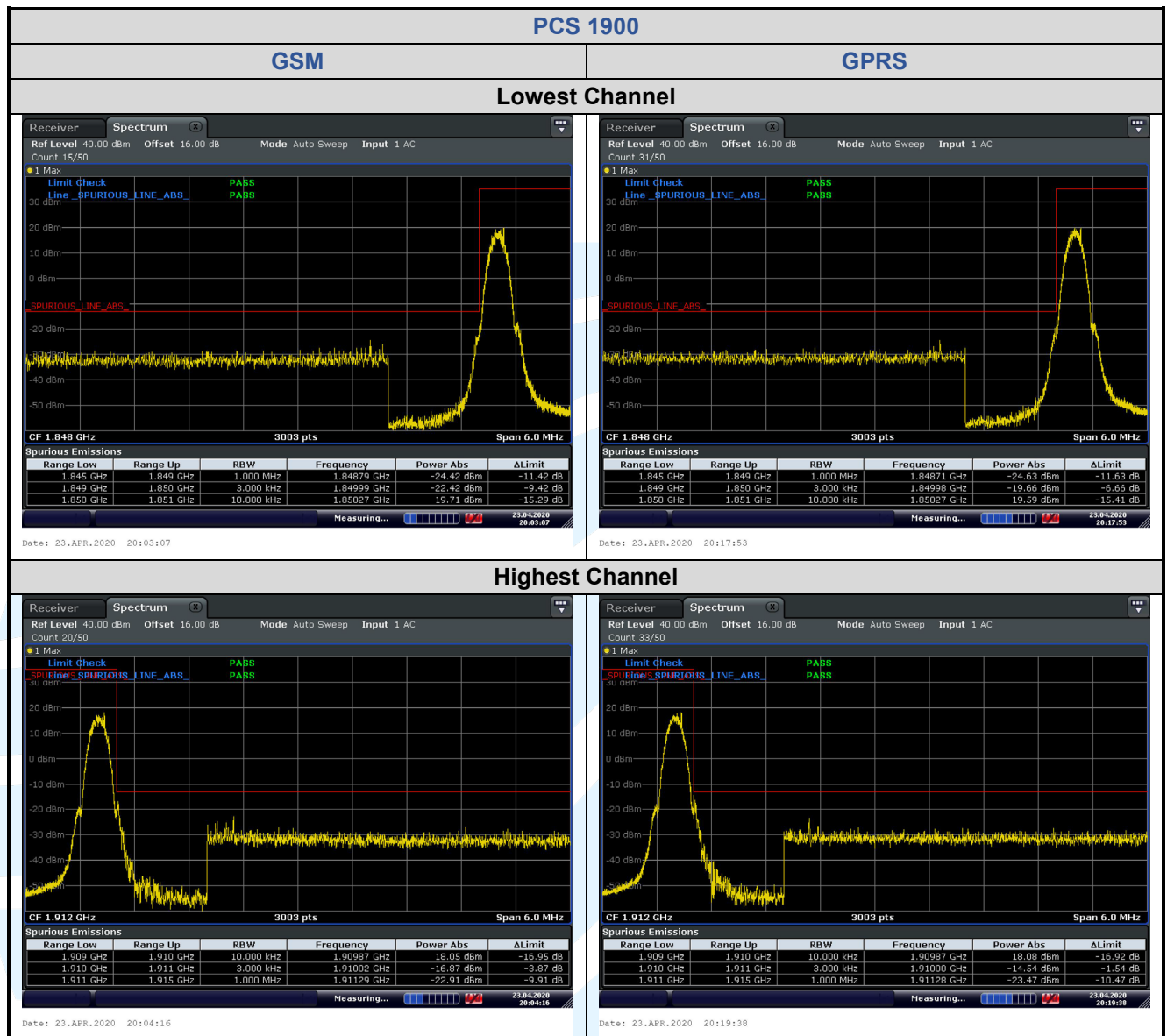
Limit Check: PASS | SPURIOUS_LINE_ABS: PASS

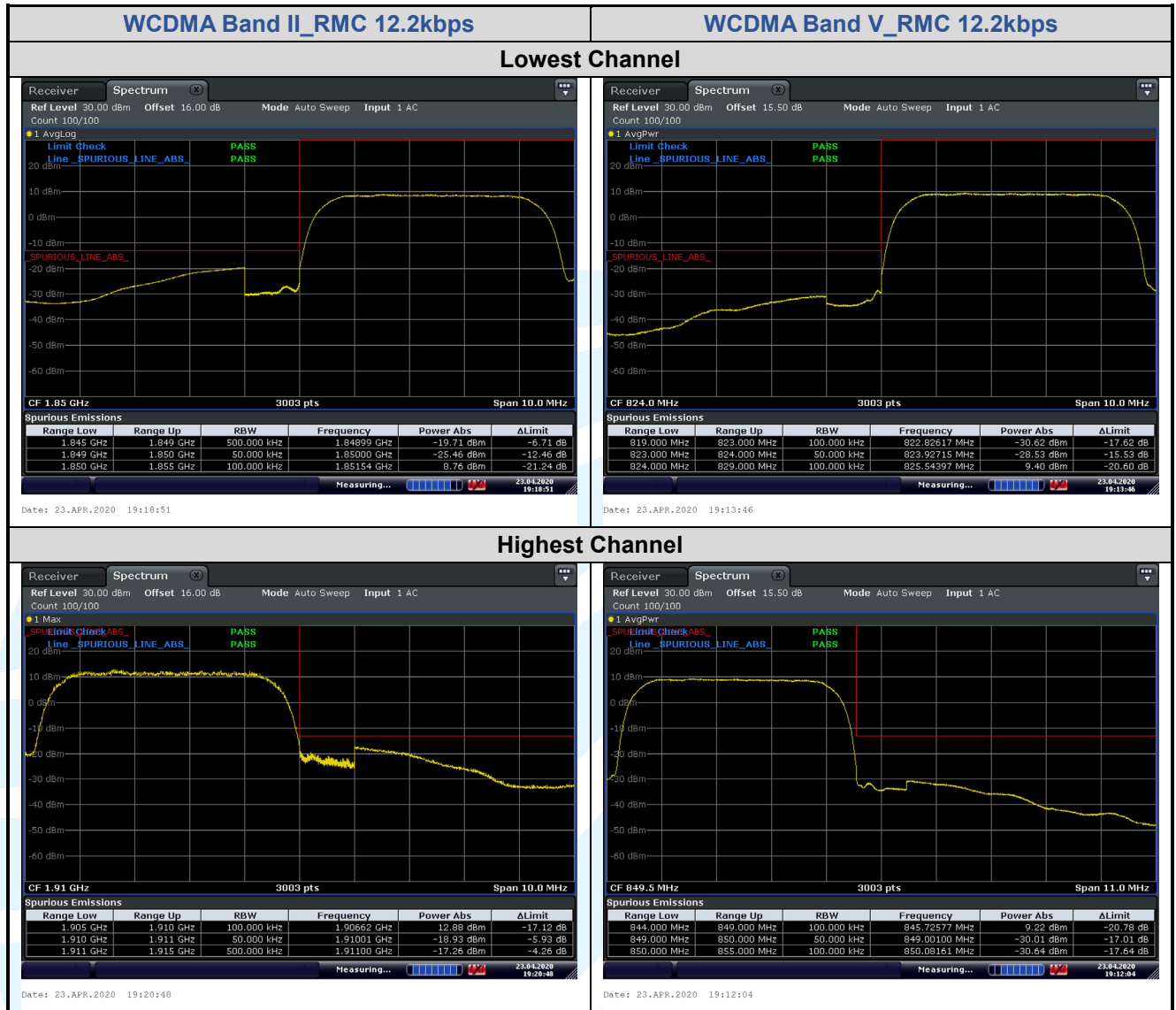
CF 851.75 MHz | 3003 pts | Span 6.5 MHz

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
848.500 MHz	849.000 MHz	10.000 kHz	848.78347 MHz	21.37 dBm	-13.63 dB
849.000 MHz	850.000 MHz	3.000 kHz	849.02295 MHz	-19.59 dBm	-6.59 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.27402 MHz	-34.69 dBm	-21.69 dB

Measuring... 23.84.2628 19:49:58

Date: 23.APR.2020 19:49:50





5.7 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Requirement: FCC 47 CFR Part 2.1051,
FCC 47 CFR Part 22.917(a)(b),
FCC 47 CFR Part 24.238(a)(b),

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

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. The emission limit equal to -13 dBm.

Test Procedure:

The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range. b. Measuring frequency range is from 30 MHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

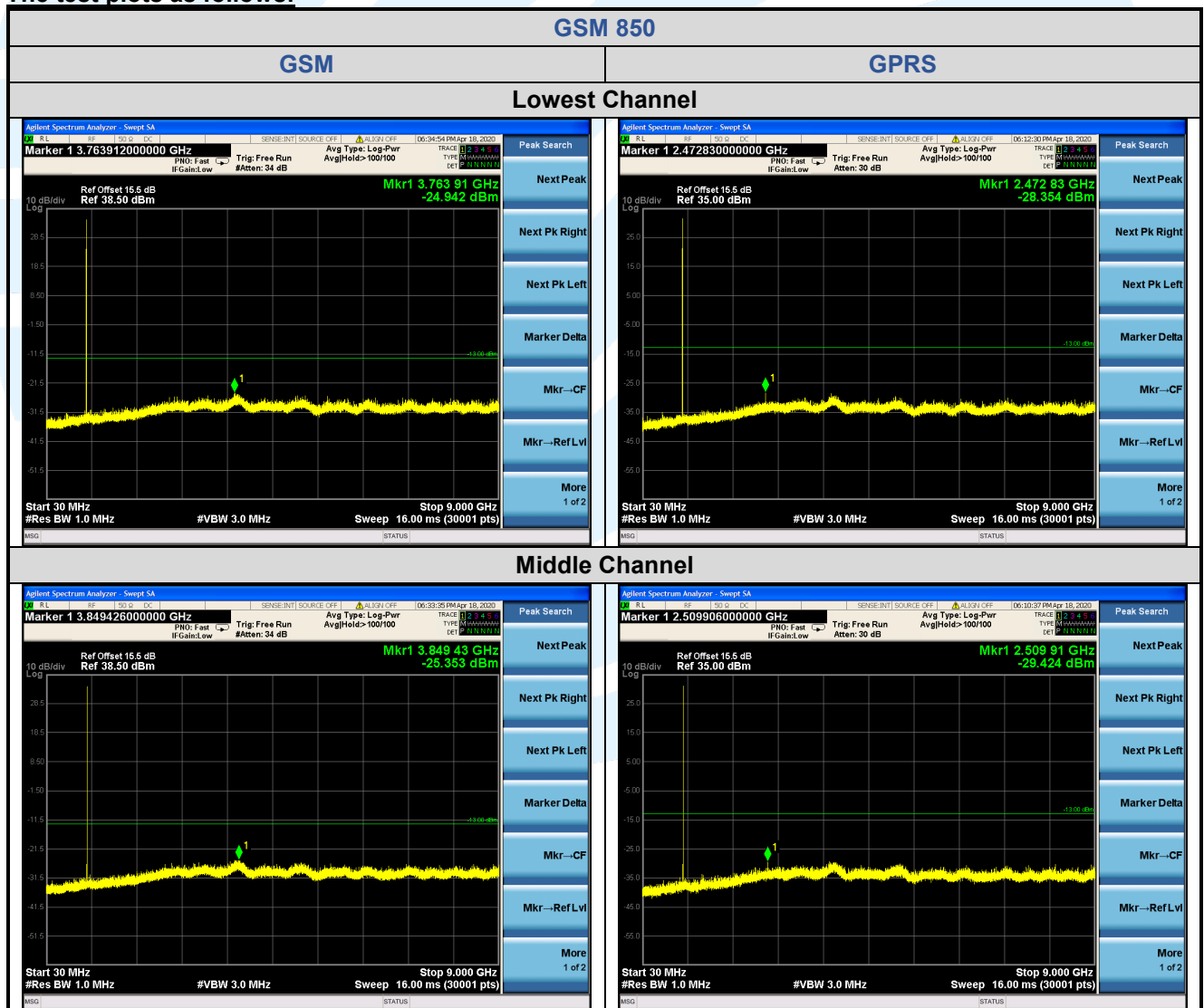
Test Setup: Refer to section 4.2.2 for details.

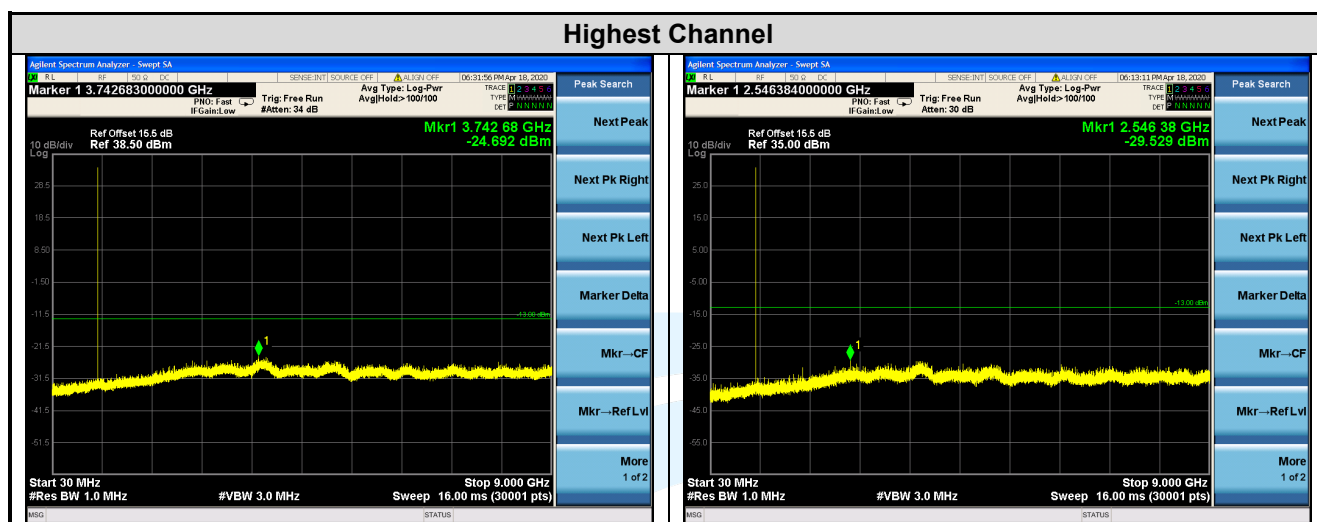
Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

The test plots as follows:





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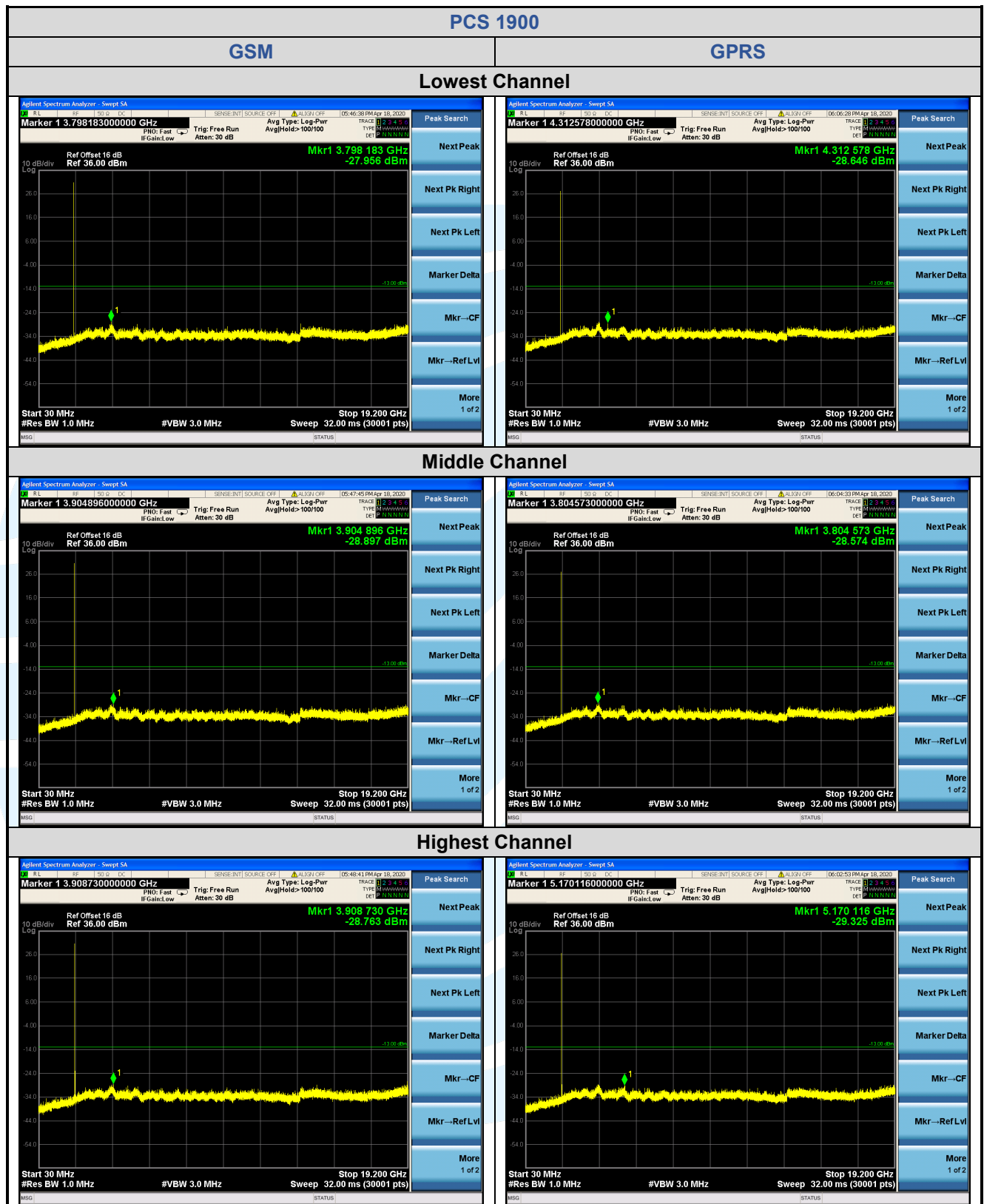
Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

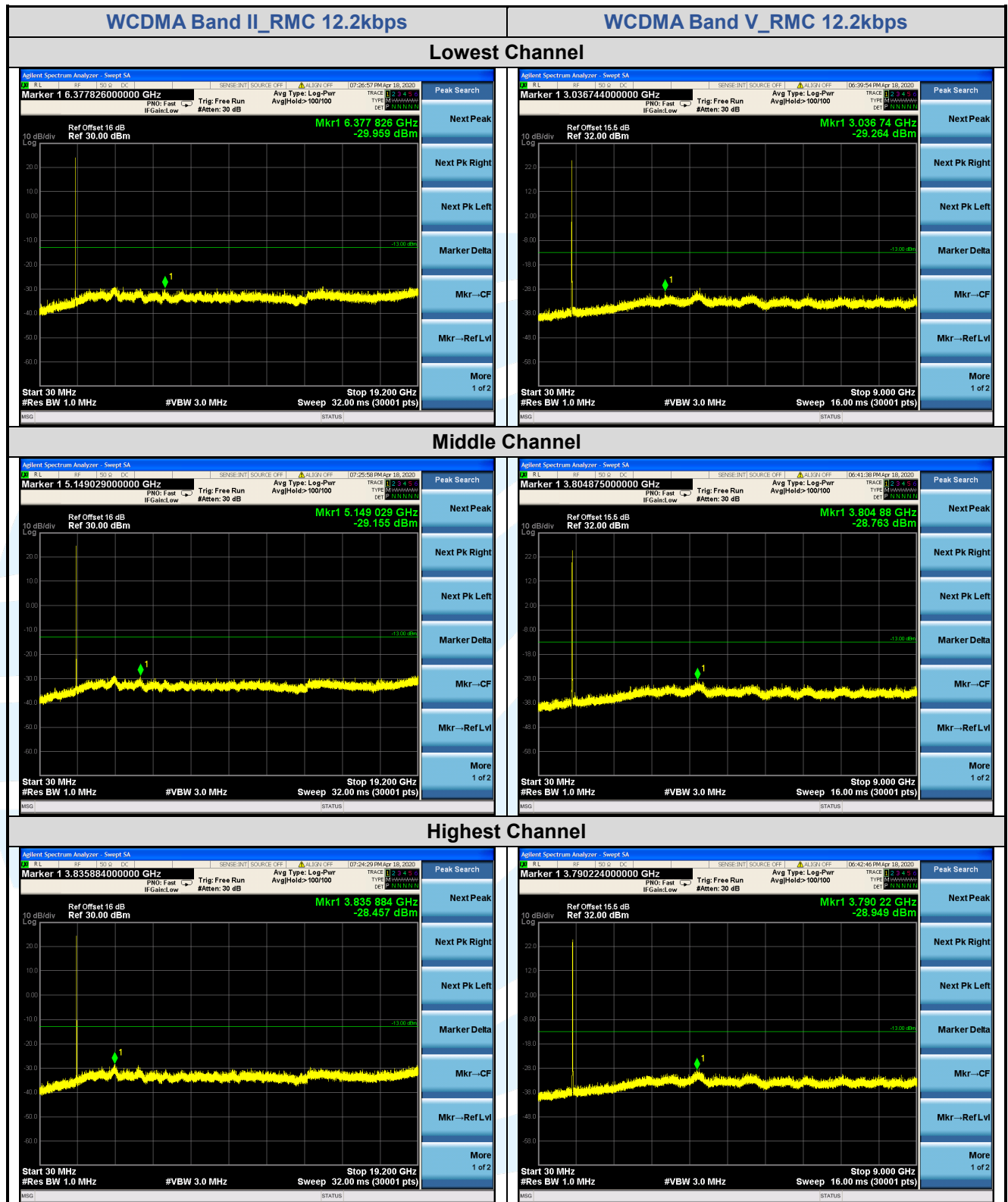
Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com
<http://www.uttlab.com>

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Remark:

1) All the above radiation data, the fundamental frequency is not marked, it may exceed the limit, please ignore it.

5.8 FIELD STRENGTH OF SPURIOUS RADIATION

Test Requirement: FCC 47 CFR Part 2.1053,
FCC 47 CFR Part 22.917(a)(b),
FCC 47 CFR Part 24.238(a)(b),

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01 Section 7

Limits:

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. The emission limit equal to -13 dBm.

Test Setup: Refer to section 4.2.1 for details.

Test Procedures: KDB 971168 D01v03r01 Section 7

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

GSM 850_Below 1G							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
GSM_Lowest Channel							
1	30.855	-91.08	38.61	-52.47	-13.00	-39.47	Horizontal
2	157.529	-89.15	33.62	-55.53	-13.00	-42.53	Horizontal
3	760.287	-87.60	47.56	-40.04	-13.00	-27.04	Horizontal
4	31.292	-92.34	38.52	-53.82	-13.00	-40.82	Vertical
5	284.261	-89.54	37.14	-52.40	-13.00	-39.40	Vertical
6	734.037	-88.31	46.21	-42.10	-13.00	-29.10	Vertical
GSM_Middle Channel							
1	31.735	-91.63	38.15	-53.48	-13.00	-40.48	Horizontal
2	298.593	-89.70	37.44	-52.26	-13.00	-39.26	Horizontal
3	642.292	-86.94	46.27	-40.67	-13.00	-27.67	Horizontal
4	30.639	-92.35	38.94	-53.41	-13.00	-40.41	Vertical
5	270.616	-89.20	36.83	-52.37	-13.00	-39.37	Vertical
6	809.924	-88.38	47.79	-40.59	-13.00	-27.59	Vertical
GSM_Middle Channel							
1	33.101	-91.72	37.45	-54.27	-13.00	-41.27	Horizontal
2	270.616	-89.87	36.83	-53.04	-13.00	-40.04	Horizontal
3	815.635	-88.03	48.28	-39.75	-13.00	-26.75	Horizontal
4	31.073	-90.72	38.65	-52.07	-13.00	-39.07	Vertical
5	240.144	-89.55	35.86	-53.69	-13.00	-40.69	Vertical
6	562.014	-88.07	44.93	-43.14	-13.00	-30.14	Vertical

GSM 850_Above 1G							
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	-55.84	3.17	-52.67	-13.00	-39.67	Horizontal
2	2472.600	-66.66	11.44	-55.22	-13.00	-42.22	Horizontal
3	1648.400	-56.75	3.25	-53.50	-13.00	-40.50	Vertical
4	2472.600	-69.60	11.24	-58.36	-13.00	-45.36	Vertical
GSM_ Middle Channel							
1	1673.200	-55.07	3.44	-51.63	-13.00	-38.63	Horizontal
2	2509.800	-70.60	11.46	-59.14	-13.00	-46.14	Horizontal
3	1673.200	-55.60	3.50	-52.10	-13.00	-39.10	Vertical
4	2509.800	-68.89	11.26	-57.63	-13.00	-44.63	Vertical
GSM_ Highest Channel							
1	1697.600	-49.31	3.71	-45.60	-13.00	-32.60	Horizontal
2	2546.400	-57.90	11.46	-46.44	-13.00	-33.44	Horizontal
3	1697.600	-53.36	3.75	-49.61	-13.00	-36.61	Vertical
4	2546.400	-63.55	11.25	-52.30	-13.00	-39.30	Vertical

PCS 1900_Below 1G							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	50.461	-72.34	1.07	-71.27	-13.00	-58.27	Horizontal
2	106.281	-77.14	3.23	-73.91	-13.00	-60.91	Horizontal
3	781.961	-81.90	18.59	-63.31	-13.00	-50.31	Horizontal
4	30.855	-81.09	9.76	-71.33	-13.00	-58.33	Vertical
5	243.543	-80.72	7.73	-72.99	-13.00	-59.99	Vertical
6	881.184	-82.50	19.32	-63.18	-13.00	-50.18	Vertical
GSM_ Middle Channel							
1	34.285	-77.62	7.81	-69.81	-13.00	-56.81	Horizontal
2	54.135	-72.67	0.82	-71.85	-13.00	-58.85	Horizontal
3	958.714	-82.38	23.01	-59.37	-13.00	-46.37	Horizontal
4	34.285	-77.68	7.55	-70.13	-13.00	-57.13	Vertical
5	222.281	-80.52	6.56	-73.96	-13.00	-60.96	Vertical
6	881.184	-81.23	19.32	-61.91	-13.00	-48.91	Vertical
GSM_ Highest Channel							
1	54.135	-70.93	0.82	-70.11	-13.00	-57.11	Horizontal
2	106.281	-76.89	3.23	-73.66	-13.00	-60.66	Horizontal
3	979.139	-81.86	23.24	-58.62	-13.00	-45.62	Horizontal
4	33.335	-80.95	8.17	-72.78	-13.00	-59.78	Vertical
5	54.135	-76.69	0.79	-75.90	-13.00	-62.90	Vertical
6	906.304	-82.98	20.13	-62.85	-13.00	-49.85	Vertical

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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PCS 1900_Above 1G							
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	-66.50	15.35	-51.15	-13.00	-38.15	Horizontal
2	5550.600	-68.98	17.05	-51.93	-13.00	-38.93	Horizontal
3	3700.400	-67.89	15.09	-52.80	-13.00	-39.80	Vertical
4	5550.600	-68.69	16.85	-51.84	-13.00	-38.84	Vertical
GSM_ Middle Channel							
1	3760.000	-70.38	15.54	-54.84	-13.00	-41.84	Horizontal
2	5640.000	-69.38	17.18	-52.20	-13.00	-39.20	Horizontal
3	3760.000	-65.55	15.29	-50.26	-13.00	-37.26	Vertical
4	5640.000	-67.20	16.98	-50.22	-13.00	-37.22	Vertical
GSM_ Highest Channel							
1	3819.600	-70.62	15.73	-54.89	-13.00	-41.89	Horizontal
2	5729.400	-70.19	17.51	-52.68	-13.00	-39.68	Horizontal
3	3819.600	-70.87	15.49	-55.38	-13.00	-42.38	Vertical
4	5729.400	-68.14	17.31	-50.83	-13.00	-37.83	Vertical

WCDMA Band II_Below 1G							
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	34.045	-76.94	7.94	-69.00	-13.00	-56.00	Horizontal
2	54.135	-72.50	0.82	-71.68	-13.00	-58.68	Horizontal
3	102.612	-77.97	3.28	-74.69	-13.00	-61.69	Horizontal
4	35.016	-79.22	7.11	-72.11	-13.00	-59.11	Vertical
5	53.379	-76.41	0.77	-75.64	-13.00	-62.64	Vertical
6	684.226	-80.98	16.42	-64.56	-13.00	-51.56	Vertical
RMC 12.2kbps_ Middle Channel							
1	54.135	-71.63	0.82	-70.81	-13.00	-57.81	Horizontal
2	103.335	-77.15	3.26	-73.89	-13.00	-60.89	Horizontal
3	693.910	-81.24	18.24	-63.00	-13.00	-50.00	Horizontal
4	54.135	-76.47	0.79	-75.68	-13.00	-62.68	Vertical
5	132.149	-79.13	3.09	-76.04	-13.00	-63.04	Vertical
6	925.613	-83.09	20.84	-62.25	-13.00	-49.25	Vertical
RMC 12.2kbps_ Highest Channel							
1	53.756	-70.41	0.84	-69.57	-13.00	-56.57	Horizontal
2	101.893	-76.15	3.29	-72.86	-13.00	-59.86	Horizontal
3	938.714	-82.11	22.26	-59.85	-13.00	-46.85	Horizontal
4	54.135	-76.86	0.79	-76.07	-13.00	-63.07	Vertical
5	250.486	-80.14	8.13	-72.01	-13.00	-59.01	Vertical
6	798.620	-82.08	18.11	-63.97	-13.00	-50.97	Vertical

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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WCDMA Band II _Above 1G							
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	-42.58	15.37	-27.21	-13.00	-14.21	Horizontal
2	5557.200	-53.28	17.05	-36.23	-13.00	-23.23	Horizontal
3	3704.800	-50.59	15.11	-35.48	-13.00	-22.48	Vertical
4	5557.200	-56.77	16.85	-39.92	-13.00	-26.92	Vertical
RMC 12.2kbps_ Middle Channel							
1	3760.000	-50.15	15.54	-34.61	-13.00	-21.61	Horizontal
2	5640.000	-56.00	17.18	-38.82	-13.00	-25.82	Horizontal
3	3760.000	-53.71	15.29	-38.42	-13.00	-25.42	Vertical
4	5640.000	-52.12	16.98	-35.14	-13.00	-22.14	Vertical
RMC 12.2kbps_ Highest Channel							
1	3815.200	-53.93	15.72	-38.21	-13.00	-25.21	Horizontal
2	5722.800	-57.04	17.48	-39.56	-13.00	-26.56	Horizontal
3	3815.200	-53.32	15.48	-37.84	-13.00	-24.84	Vertical
4	5722.800	-56.76	17.28	-39.48	-13.00	-26.48	Vertical

WCDMA Band V _Below 1G							
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	38.096	-91.95	34.36	-57.59	-13.00	-44.59	Horizontal
2	158.640	-90.04	32.82	-57.22	-13.00	-44.22	Horizontal
3	771.047	-87.59	46.42	-41.17	-13.00	-28.17	Horizontal
4	32.640	-90.78	37.20	-53.58	-13.00	-40.58	Vertical
5	430.305	-88.44	40.99	-47.45	-13.00	-34.45	Vertical
6	703.731	-87.96	45.25	-42.71	-13.00	-29.71	Vertical
RMC 12.2kbps_ Middle Channel							
1	34.527	-91.59	36.23	-55.36	-13.00	-42.36	Horizontal
2	166.639	-90.06	32.43	-57.63	-13.00	-44.63	Horizontal
3	804.252	-88.28	47.01	-41.27	-13.00	-28.27	Horizontal
4	32.640	-91.93	37.20	-54.73	-13.00	-41.73	Vertical
5	123.181	-89.69	30.82	-58.87	-13.00	-45.87	Vertical
6	821.387	-88.34	46.71	-41.63	-13.00	-28.63	Vertical
RMC 12.2kbps_ Highest Channel							
1	33.335	-91.50	36.87	-54.63	-13.00	-41.63	Horizontal
2	259.443	-88.66	35.70	-52.96	-13.00	-39.96	Horizontal
3	815.635	-87.95	46.93	-41.02	-13.00	-28.02	Horizontal
4	30.639	-90.91	38.52	-52.39	-13.00	-39.39	Vertical
5	101.180	-89.53	31.21	-58.32	-13.00	-45.32	Vertical
6	793.028	-87.36	45.91	-41.45	-13.00	-28.45	Vertical

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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WCDMA Band V _Above 1G							
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	-66.56	3.22	-63.34	-13.00	-50.34	Horizontal
2	2479.200	-53.60	11.45	-42.15	-13.00	-29.15	Horizontal
3	1652.800	-67.66	3.30	-64.36	-13.00	-51.36	Vertical
4	2479.200	-58.10	11.25	-46.85	-13.00	-33.85	Vertical
RMC 12.2kbps_ Middle Channel							
1	1672.800	-59.87	3.44	-56.43	-13.00	-43.43	Horizontal
2	2509.200	-48.98	11.46	-37.52	-13.00	-24.52	Horizontal
3	1672.800	-63.49	3.50	-59.99	-13.00	-46.99	Vertical
4	2509.200	-52.60	11.26	-41.34	-13.00	-28.34	Vertical
RMC 12.2kbps_ Highest Channel							
1	1693.200	-58.83	3.66	-55.17	-13.00	-42.17	Horizontal
2	2539.800	-54.44	11.46	-42.98	-13.00	-29.98	Horizontal
3	1693.200	-62.07	3.71	-58.36	-13.00	-45.36	Vertical
4	2539.800	-55.56	11.25	-44.31	-13.00	-31.31	Vertical

Remark:

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

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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5.9 FREQUENCY STABILITY

Test Requirement: FCC 47 CFR Part 2.1055 &
FCC 47 CFR Part 22.355 &
FCC 47 CFR Part 24.235 &
Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limits:

FCC 47 CFR Part 22.355,

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

FCC 47 CFR Part 24.235,

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

Test Setup: Refer to section 4.2.2 for details.

Test Procedures:

- 1) Use CMW 500 with Frequency Error measurement capability.
 - a) Temp. = -30° to $+50^{\circ}\text{C}$
 - b) Voltage = low voltage, 3.5 Vdc, Normal, 3.8 Vdc and High voltage, 4.35 Vdc.

2) Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

3) Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

Equipment Used: Refer to section 3 for details.

Test Result: Pass

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature ($^{\circ}\text{C}$)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
GSM 850							
GMSK	190 / 836.6	VL	TN	29	0.0347	± 2.5	Pass
		VN		34	0.0406	± 2.5	Pass
		VH		31	0.0371	± 2.5	Pass
		VN	50	29	0.0347	± 2.5	Pass
			40	45	0.0538	± 2.5	Pass
			30	28	0.0335	± 2.5	Pass
			20	33	0.0394	± 2.5	Pass
			10	37	0.0442	± 2.5	Pass
			0	35	0.0418	± 2.5	Pass
			-10	35	0.0418	± 2.5	Pass
			-20	35	0.0418	± 2.5	Pass
			-30	26	0.0311	± 2.5	Pass

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
PCS 1900							
GMSK	661 / 1880.0	VL	TN	26	0.0138	N/A	Pass
		VN		35	0.0186		Pass
		VH		33	0.0176		Pass
		VN	50	31	0.0165		Pass
			40	36	0.0191		Pass
			30	33	0.0176		Pass
			20	37	0.0197		Pass
			10	35	0.0186		Pass
			0	34	0.0181		Pass
			-10	37	0.0197		Pass
			-20	31	0.0165		Pass
			-30	31	0.0165		Pass

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
WCDMA Band II							
RMC 12.2kbps	9400 / 1880.0	VL	TN	31	0.0165	N/A	Pass
		VN		29	0.0154		Pass
		VH		34	0.0181		Pass
		VN	50	29	0.0154		Pass
			40	33	0.0176		Pass
			30	31	0.0165		Pass
			20	27	0.0144		Pass
			10	34	0.0181		Pass
			0	29	0.0154		Pass
			-10	29	0.0154		Pass
			-20	24	0.0128		Pass
			-30	26	0.0138		Pass

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
WCDMA Band V							
RMC 12.2kbps	4182 / 836.4	VL	TN	33	0.0395	± 2.5	Pass
		VN		27	0.0323	± 2.5	Pass
		VH		31	0.0371	± 2.5	Pass
		VN	50	28	0.0335	± 2.5	Pass
			40	25	0.0299	± 2.5	Pass
			30	34	0.0407	± 2.5	Pass
			20	31	0.0371	± 2.5	Pass
			10	33	0.0395	± 2.5	Pass
			0	28	0.0335	± 2.5	Pass
			-10	29	0.0347	± 2.5	Pass
			-20	31	0.0371	± 2.5	Pass
			-30	27	0.0323	± 2.5	Pass

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-FCC23G-V1.0

APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

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