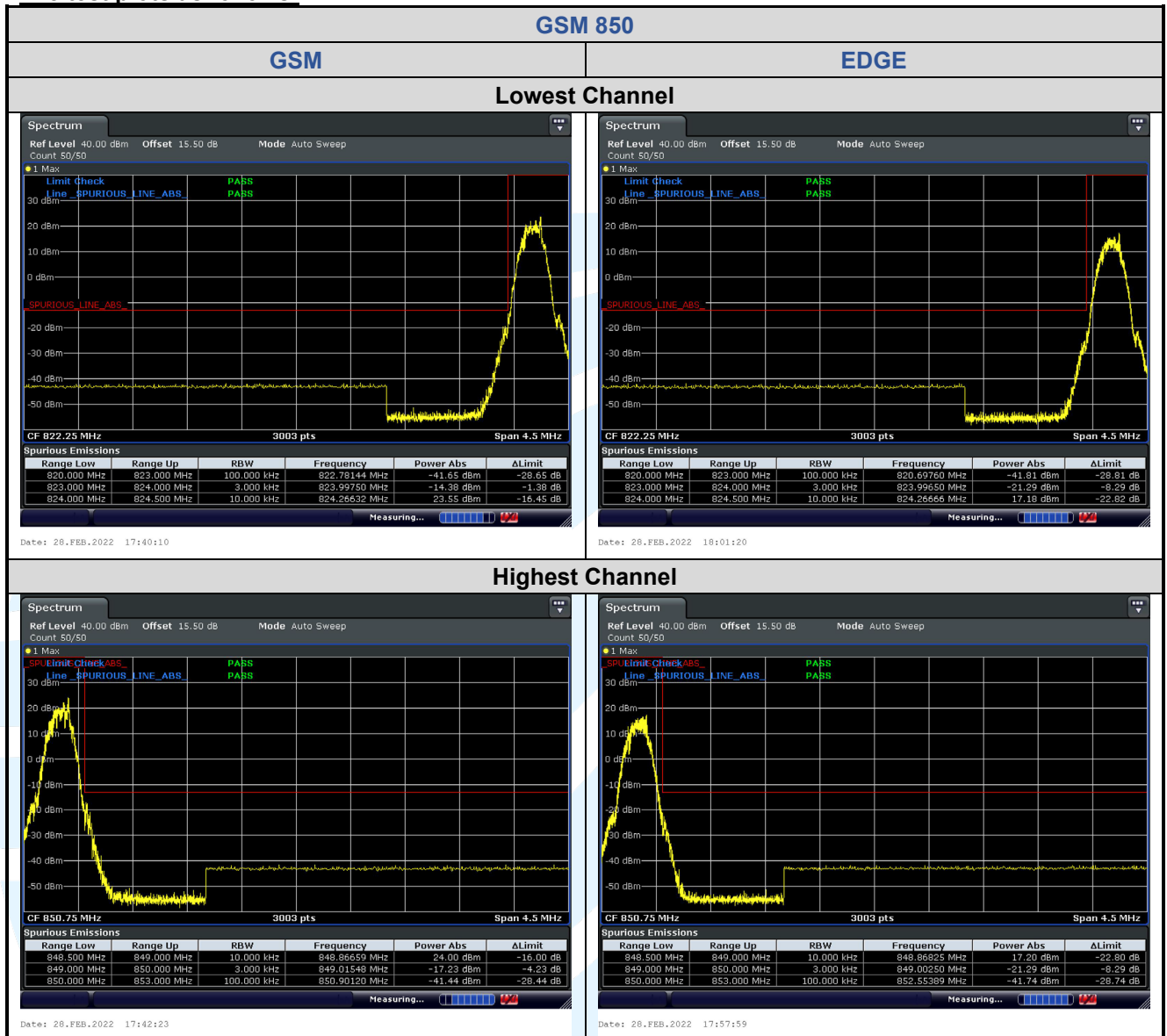
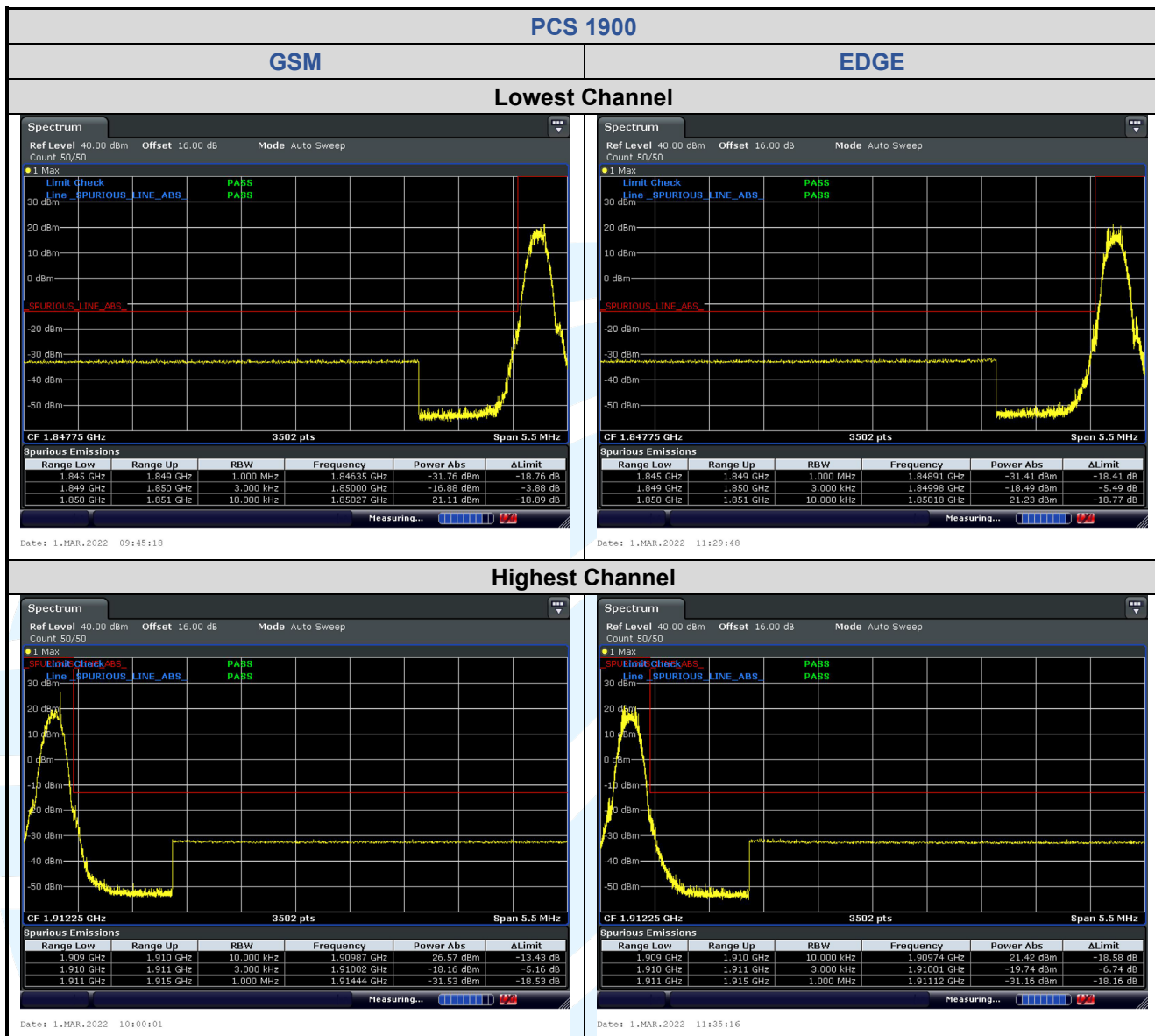
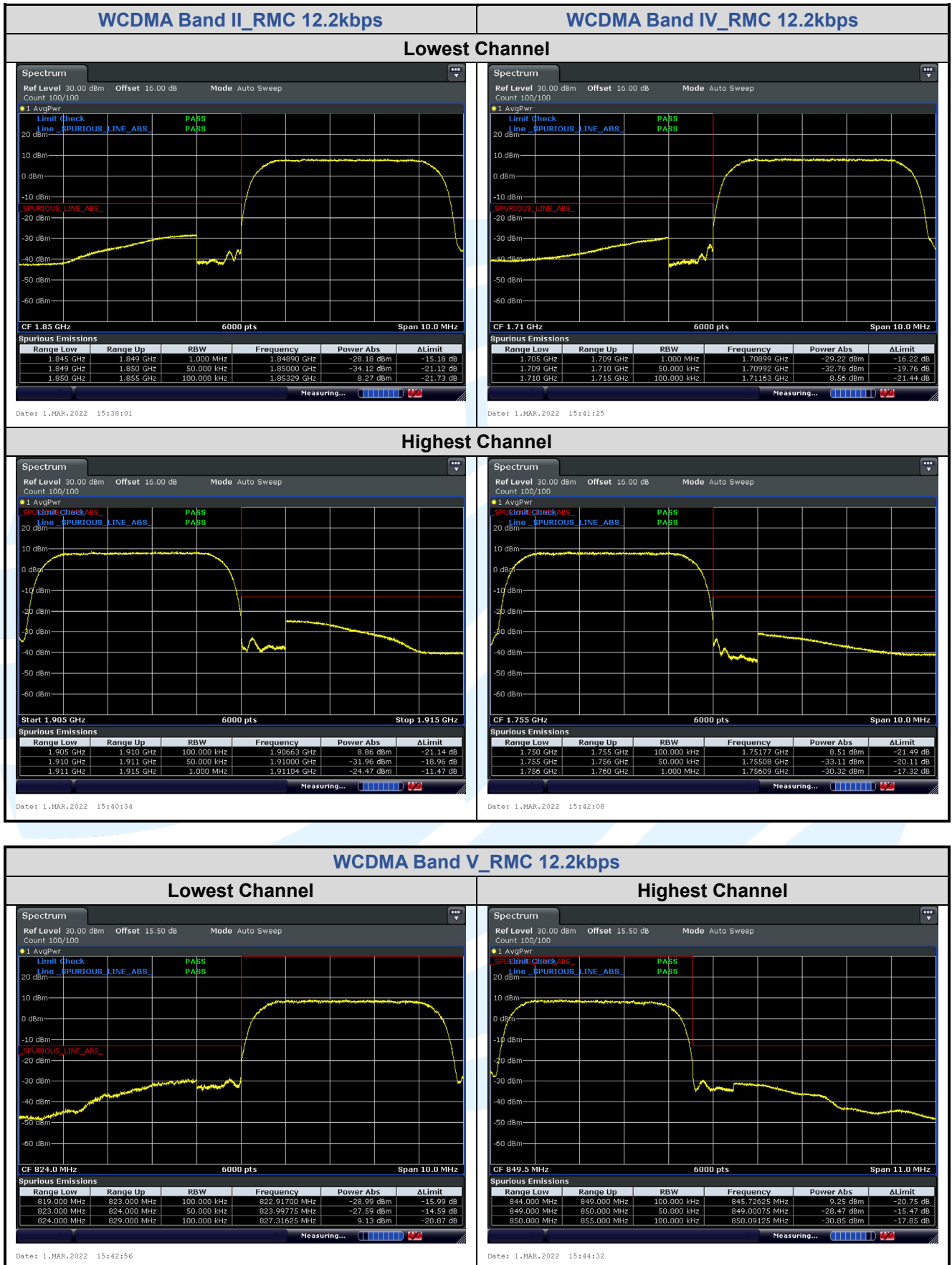


The test plots as follows:







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),
FCC 47 CFR Part 27.53(h)(1)

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.

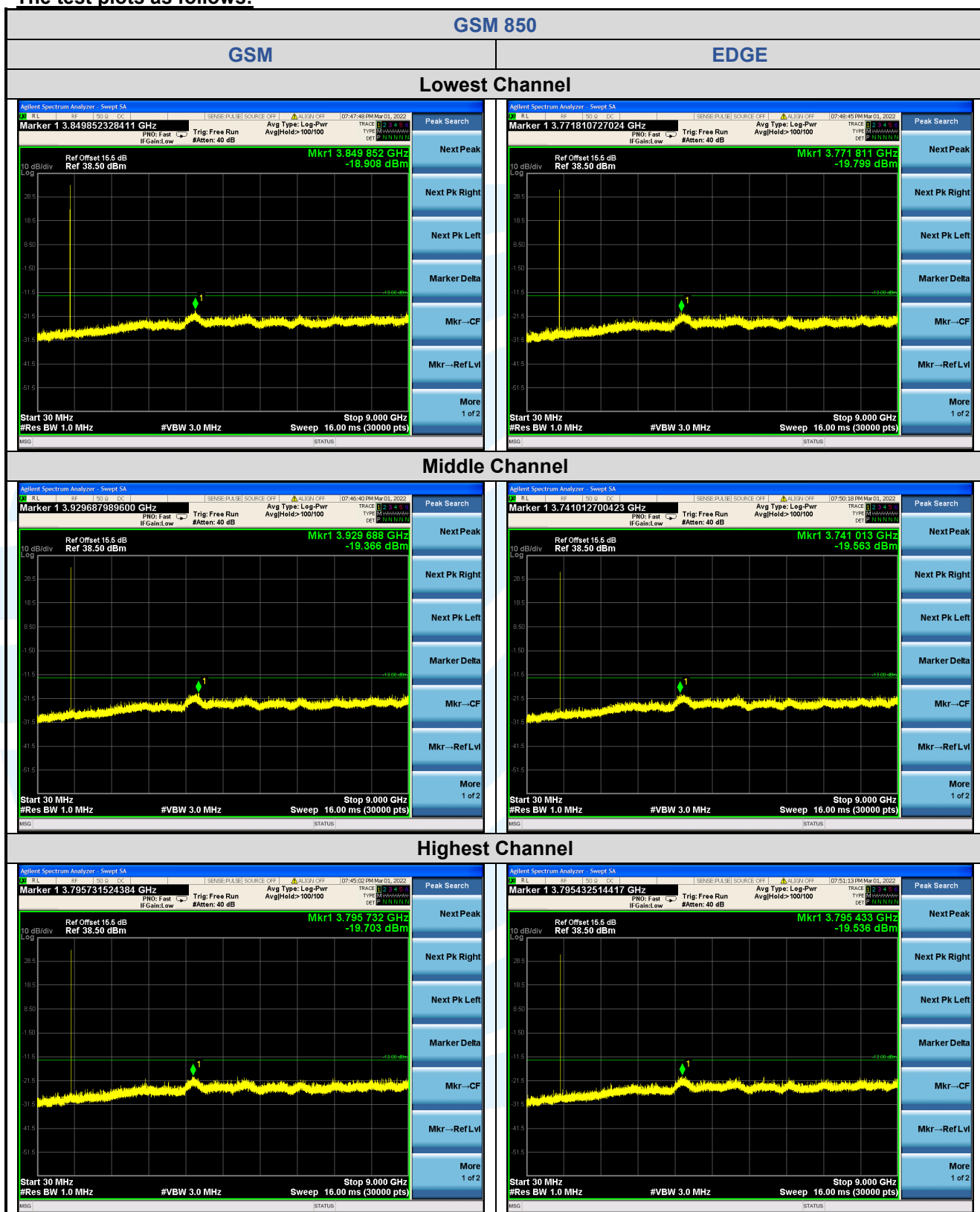
Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

The test plots as follows:



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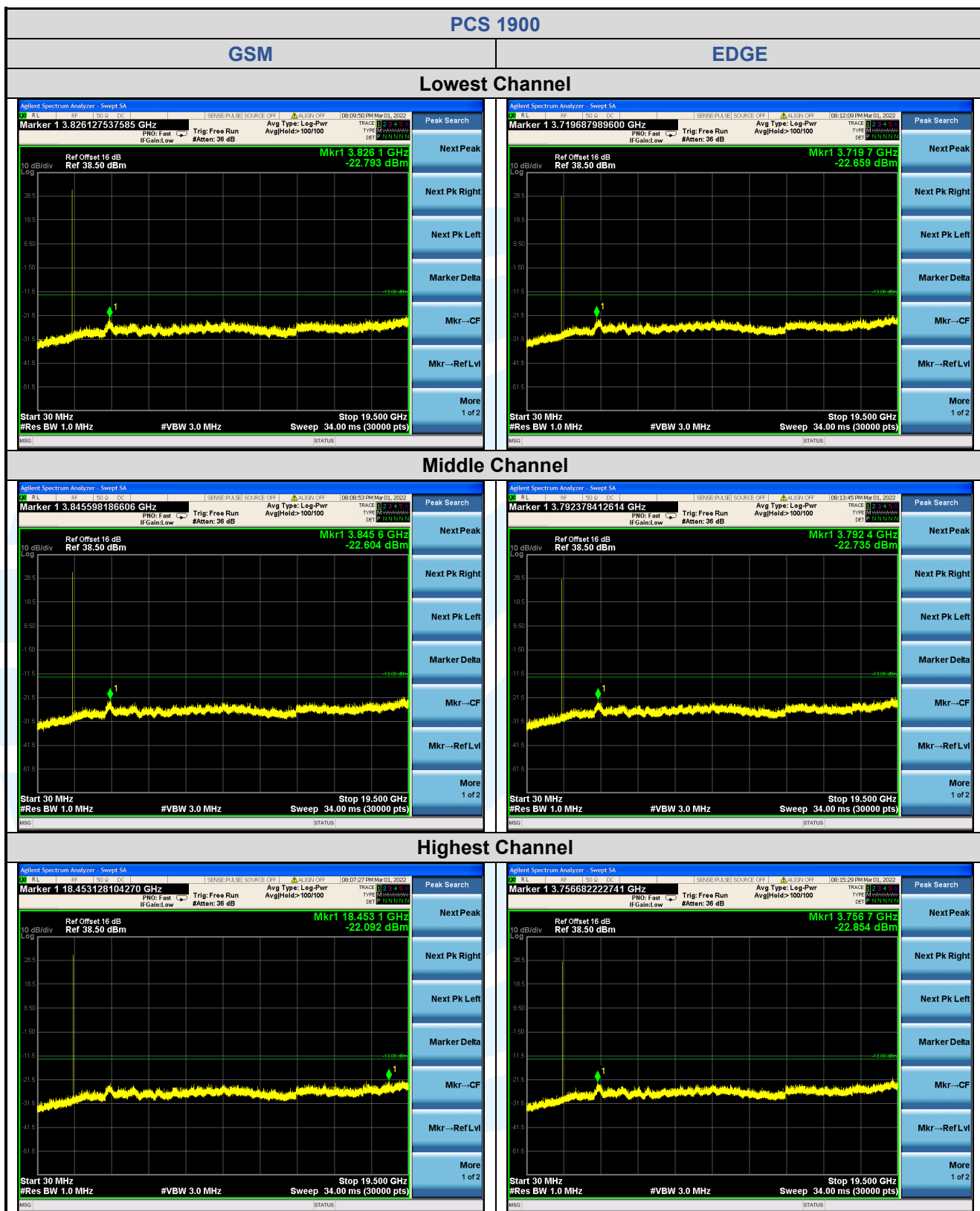
Tel: +86-755-28230888

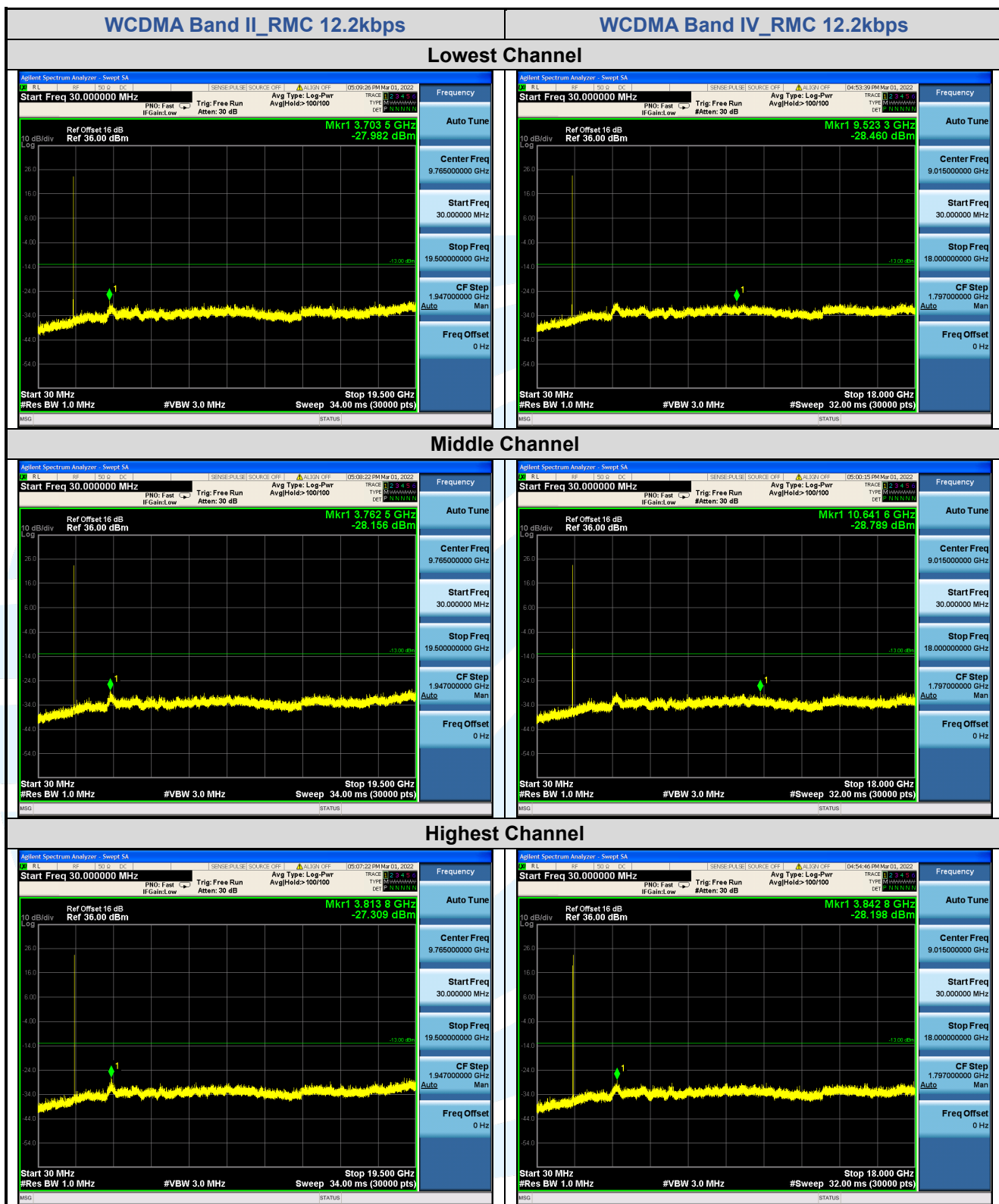
Fax: +86-755-28230886

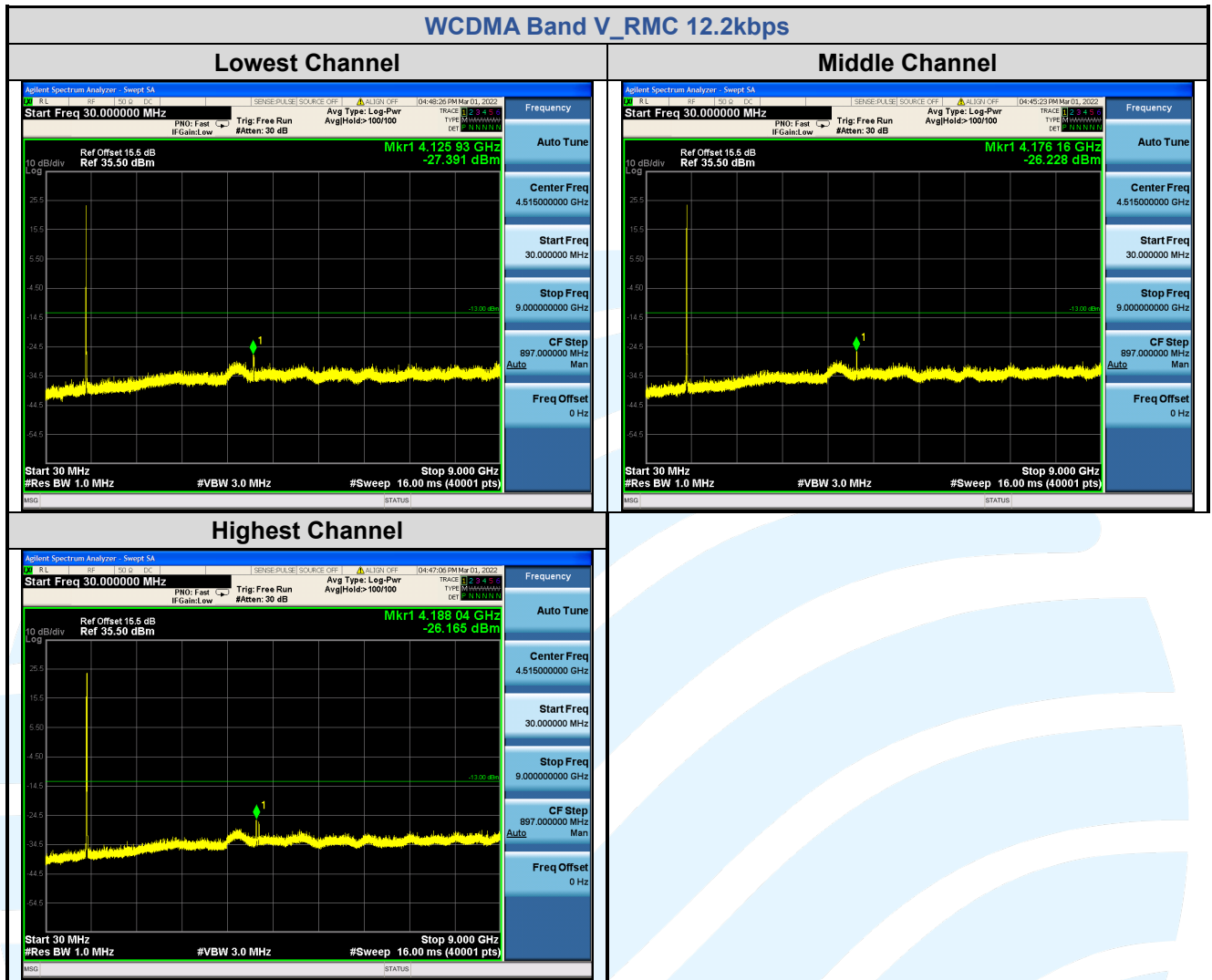
E-mail: info@uttlab.com

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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),
FCC 47 CFR Part 27.53(h)(1)

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							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM _ Lowest Channel							
1	505.789	-89.41	36.38	-53.03	-13.00	-40.03	Horizontal
2	660.602	-88.35	39.56	-48.79	-13.00	-35.79	Horizontal
3	744.427	-87.78	40.77	-47.01	-13.00	-34.01	Horizontal
4	1648.400	-41.25	0.20	-41.05	-13.00	-28.05	Horizontal
5	2472.600	-46.71	3.59	-43.12	-13.00	-30.12	Horizontal
6	430.305	-89.33	34.23	-55.10	-13.00	-42.10	Vertical
7	578.036	-89.34	37.45	-51.89	-13.00	-38.89	Vertical
8	781.961	-87.33	40.84	-46.49	-13.00	-33.49	Vertical
9	1648.400	-43.62	0.20	-43.42	-13.00	-30.42	Vertical
10	2472.600	-46.31	3.59	-42.72	-13.00	-29.72	Vertical
GSM _ Middle Channel							
1	520.208	-89.35	36.39	-52.96	-13.00	-39.96	Horizontal
2	660.602	-88.79	39.56	-49.23	-13.00	-36.23	Horizontal
3	765.648	-88.69	40.99	-47.70	-13.00	-34.70	Horizontal
4	1673.200	-42.55	0.36	-42.19	-13.00	-29.19	Horizontal
5	2509.800	-48.31	3.71	-44.60	-13.00	-31.60	Horizontal
6	498.730	-88.63	36.02	-52.61	-13.00	-39.61	Vertical
7	651.383	-88.49	39.37	-49.12	-13.00	-36.12	Vertical
8	793.028	-87.74	41.01	-46.73	-13.00	-33.73	Vertical
9	1673.200	-47.13	0.36	-46.77	-13.00	-33.77	Vertical
10	2509.800	-47.50	3.71	-43.79	-13.00	-30.79	Vertical
GSM _ Middle Channel							
1	461.631	-89.04	35.02	-54.02	-13.00	-41.02	Horizontal
2	602.929	-89.37	38.32	-51.05	-13.00	-38.05	Horizontal
3	713.692	-89.23	40.54	-48.69	-13.00	-35.69	Horizontal
4	1697.600	-45.26	0.52	-44.74	-13.00	-31.74	Horizontal
5	2546.400	-48.42	3.80	-44.62	-13.00	-31.62	Horizontal
6	379.178	-88.36	32.99	-55.37	-13.00	-42.37	Vertical
7	461.631	-89.19	35.02	-54.17	-13.00	-41.17	Vertical
8	760.287	-88.52	40.79	-47.73	-13.00	-34.73	Vertical
9	1697.600	-49.07	0.52	-48.55	-13.00	-35.55	Vertical
10	2546.400	-49.59	3.80	-45.79	-13.00	-32.79	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	31.959	-74.33	4.86	-69.47	-13.00	-56.47	Horizontal
2	689.051	-79.71	10.82	-68.89	-13.00	-55.89	Horizontal
3	875.013	-80.40	13.46	-66.94	-13.00	-53.94	Horizontal
4	5550.600	-57.99	11.77	-46.22	-13.00	-33.22	Horizontal
5	7400.800	-57.76	13.48	-44.28	-13.00	-31.28	Horizontal
6	31.513	-78.00	4.94	-73.06	-13.00	-60.06	Vertical
7	502.247	-79.61	6.88	-72.73	-13.00	-59.73	Vertical
8	958.714	-81.33	14.29	-67.04	-13.00	-54.04	Vertical
9	5550.600	-61.42	11.77	-49.65	-13.00	-36.65	Vertical
10	7400.800	-53.41	13.48	-39.93	-13.00	-26.93	Vertical
GSM _ Middle Channel							
1	32.411	-76.40	4.82	-71.58	-13.00	-58.58	Horizontal
2	739.214	-80.78	11.59	-69.19	-13.00	-56.19	Horizontal
3	850.760	-80.97	12.97	-68.00	-13.00	-55.00	Horizontal
4	5640.000	-51.03	11.56	-39.47	-13.00	-26.47	Horizontal
5	7520.000	-56.05	13.67	-42.38	-13.00	-29.38	Horizontal
6	32.184	-76.61	4.84	-71.77	-13.00	-58.77	Vertical
7	538.811	-79.62	7.67	-71.95	-13.00	-58.95	Vertical
8	793.028	-80.72	11.82	-68.90	-13.00	-55.90	Vertical
9	5640.000	-56.60	11.56	-45.04	-13.00	-32.04	Vertical
10	7520.000	-52.66	13.67	-38.99	-13.00	-25.99	Vertical
GSM _ Highest Channel							
1	32.184	-75.06	4.84	-70.22	-13.00	-57.22	Horizontal
2	781.961	-80.61	11.62	-68.99	-13.00	-55.99	Horizontal
3	912.695	-81.92	13.97	-67.95	-13.00	-54.95	Horizontal
4	5729.400	-51.05	11.36	-39.69	-13.00	-26.69	Horizontal
5	7639.200	-57.37	13.81	-43.56	-13.00	-30.56	Horizontal
6	32.184	-75.42	4.84	-70.58	-13.00	-57.58	Vertical
7	749.676	-81.16	11.48	-69.68	-13.00	-56.68	Vertical
8	899.958	-81.99	13.88	-68.11	-13.00	-55.11	Vertical
9	5729.400	-51.87	11.36	-40.51	-13.00	-27.51	Vertical
10	7639.200	-58.94	13.81	-45.13	-13.00	-32.13	Vertical

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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	33.101	-76.39	4.76	-71.63	-13.00	-58.63	Horizontal
2	336.482	-79.76	3.91	-75.85	-13.00	-62.85	Horizontal
3	881.184	-81.07	13.59	-67.48	-13.00	-54.48	Horizontal
4	3704.800	-61.03	7.59	-53.44	-13.00	-40.44	Horizontal
5	5557.200	-66.37	11.75	-54.62	-13.00	-41.62	Horizontal
6	32.870	-76.86	4.78	-72.08	-13.00	-59.08	Vertical
7	642.292	-80.37	9.87	-70.50	-13.00	-57.50	Vertical
8	703.731	-80.69	11.07	-69.62	-13.00	-56.62	Vertical
9	3704.800	-61.54	7.59	-53.95	-13.00	-40.95	Vertical
10	5557.200	-67.05	11.75	-55.30	-13.00	-42.30	Vertical
RMC 12.2kbps_ Middle Channel							
1	32.870	-73.17	4.78	-68.39	-13.00	-55.39	Horizontal
2	760.287	-80.68	11.53	-69.15	-13.00	-56.15	Horizontal
3	887.398	-81.79	13.71	-68.08	-13.00	-55.08	Horizontal
4	3760.000	-60.07	7.79	-52.28	-13.00	-39.28	Horizontal
5	5640.000	-61.94	11.56	-50.38	-13.00	-37.38	Horizontal
6	32.411	-77.17	4.82	-72.35	-13.00	-59.35	Vertical
7	723.793	-80.68	11.38	-69.30	-13.00	-56.30	Vertical
8	881.184	-81.91	13.59	-68.32	-13.00	-55.32	Vertical
9	3760.000	-62.11	7.79	-54.32	-13.00	-41.32	Vertical
10	5640.000	-64.15	11.56	-52.59	-13.00	-39.59	Vertical
RMC 12.2kbps_ Highest Channel							
1	32.411	-74.81	4.82	-69.99	-13.00	-56.99	Horizontal
2	728.897	-81.19	11.48	-69.71	-13.00	-56.71	Horizontal
3	893.656	-81.66	13.85	-67.81	-13.00	-54.81	Horizontal
4	3815.200	-57.62	7.99	-49.63	-13.00	-36.63	Horizontal
5	5722.800	-66.87	11.38	-55.49	-13.00	-42.49	Horizontal
6	32.184	-77.02	4.84	-72.18	-13.00	-59.18	Vertical
7	250.486	-79.17	0.77	-78.40	-13.00	-65.40	Vertical
8	972.283	-82.09	14.39	-67.70	-13.00	-54.70	Vertical
9	3815.200	-61.13	7.99	-53.14	-13.00	-40.14	Vertical
10	5722.800	-65.66	11.38	-54.28	-13.00	-41.28	Vertical

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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	32.411	-76.47	4.82	-71.65	-13.00	-58.65	Horizontal
2	718.725	-80.81	11.33	-69.48	-13.00	-56.48	Horizontal
3	887.398	-81.98	13.71	-68.27	-13.00	-55.27	Horizontal
4	3424.800	-61.47	6.47	-55.00	-13.00	-42.00	Horizontal
5	5137.200	-62.13	10.02	-52.11	-13.00	-39.11	Horizontal
6	32.184	-79.34	4.84	-74.50	-13.00	-61.50	Vertical
7	723.793	-81.20	11.38	-69.82	-13.00	-56.82	Vertical
8	856.760	-82.08	13.12	-68.96	-13.00	-55.96	Vertical
9	3424.800	-64.70	6.47	-58.23	-13.00	-45.23	Vertical
10	5137.200	-65.55	10.02	-55.53	-13.00	-42.53	Vertical
RMC 12.2kbps_ Middle Channel							
1	33.570	-75.57	4.68	-70.89	-13.00	-57.89	Horizontal
2	809.924	-80.98	12.23	-68.75	-13.00	-55.75	Horizontal
3	919.132	-81.62	14.01	-67.61	-13.00	-54.61	Horizontal
4	3464.800	-65.45	6.62	-58.83	-13.00	-45.83	Horizontal
5	5197.200	-63.76	10.24	-53.52	-13.00	-40.52	Horizontal
6	32.184	-77.53	4.84	-72.69	-13.00	-59.69	Vertical
7	624.490	-80.74	9.33	-71.41	-13.00	-58.41	Vertical
8	713.692	-81.21	11.19	-70.02	-13.00	-57.02	Vertical
9	3464.800	-65.11	6.62	-58.49	-13.00	-45.49	Vertical
10	5197.200	-63.22	10.24	-52.98	-13.00	-39.98	Vertical
RMC 12.2kbps_ Highest Channel							
1	30.855	-76.52	5.05	-71.47	-13.00	-58.47	Horizontal
2	809.924	-81.87	12.23	-69.64	-13.00	-56.64	Horizontal
3	899.958	-81.97	13.88	-68.09	-13.00	-55.09	Horizontal
4	3505.200	-62.21	6.77	-55.44	-13.00	-42.44	Horizontal
5	5257.800	-63.53	10.56	-52.97	-13.00	-39.97	Horizontal
6	31.073	-79.20	5.02	-74.18	-13.00	-61.18	Vertical
7	713.692	-80.86	11.19	-69.67	-13.00	-56.67	Vertical
8	765.648	-81.07	11.74	-69.33	-13.00	-56.33	Vertical
9	3505.200	-62.73	6.77	-55.96	-13.00	-42.96	Vertical
10	5257.800	-63.64	10.56	-53.08	-13.00	-40.08	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	481.511	-88.60	35.45	-53.15	-13.00	-40.15	Horizontal
2	546.437	-88.75	37.12	-51.63	-13.00	-38.63	Horizontal
3	728.897	-87.76	40.80	-46.96	-13.00	-33.96	Horizontal
4	1652.800	-50.00	0.23	-49.77	-13.00	-36.77	Horizontal
5	2479.200	-55.38	3.61	-51.77	-13.00	-38.77	Horizontal
6	436.396	-89.07	34.08	-54.99	-13.00	-41.99	Vertical
7	562.014	-89.24	37.20	-52.04	-13.00	-39.04	Vertical
8	744.427	-88.34	40.77	-47.57	-13.00	-34.57	Vertical
9	1652.800	-52.02	0.23	-51.79	-13.00	-38.79	Vertical
10	2479.200	-54.79	3.61	-51.18	-13.00	-38.18	Vertical
RMC 12.2kbps_ Middle Channel							
1	542.610	-89.05	37.09	-51.96	-13.00	-38.96	Horizontal
2	684.226	-88.14	40.01	-48.13	-13.00	-35.13	Horizontal
3	793.028	-87.70	41.01	-46.69	-13.00	-33.69	Horizontal
4	1672.800	-50.06	0.36	-49.70	-13.00	-36.70	Horizontal
5	2509.200	-54.35	3.71	-50.64	-13.00	-37.64	Horizontal
6	602.929	-89.24	38.32	-50.92	-13.00	-37.92	Vertical
7	689.051	-88.61	40.21	-48.40	-13.00	-35.40	Vertical
8	765.648	-87.63	40.99	-46.64	-13.00	-33.64	Vertical
9	1672.800	-51.28	0.36	-50.92	-13.00	-37.92	Vertical
10	2509.200	-55.90	3.71	-52.19	-13.00	-39.19	Vertical
RMC 12.2kbps_ Highest Channel							
1	582.112	-88.86	37.50	-51.36	-13.00	-38.36	Horizontal
2	646.822	-89.04	39.37	-49.67	-13.00	-36.67	Horizontal
3	703.731	-88.89	40.44	-48.45	-13.00	-35.45	Horizontal
4	1693.200	-48.94	0.50	-48.44	-13.00	-35.44	Horizontal
5	2539.800	-55.50	3.78	-51.72	-13.00	-38.72	Horizontal
6	33.807	-91.65	33.45	-58.20	-13.00	-45.20	Vertical
7	505.789	-88.94	36.38	-52.56	-13.00	-39.56	Vertical
8	804.252	-87.82	41.36	-46.46	-13.00	-33.46	Vertical
9	1693.200	-48.84	0.50	-48.34	-13.00	-35.34	Vertical
10	2539.800	-55.20	3.78	-51.42	-13.00	-38.42	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

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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 &
FCC 47 CFR Part 27.54

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, FCC 47 CFR Part 27.54

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, 3.6 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		21	0.0251	± 2.5	Pass
		VH		26	0.0311	± 2.5	Pass
		VN	50	32	0.0383	± 2.5	Pass
			40	22	0.0263	± 2.5	Pass
			30	31	0.0371	± 2.5	Pass
			20	28	0.0335	± 2.5	Pass
			10	32	0.0383	± 2.5	Pass
			0	23	0.0275	± 2.5	Pass
			-10	33	0.0394	± 2.5	Pass
			-20	32	0.0383	± 2.5	Pass
			-30	27	0.0323	± 2.5	Pass

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Pass/ Fail
GSM 850							
8PSK	190 / 836.6	VL	TN	32	0.0383	± 2.5	Pass
		VN		35	0.0418	± 2.5	Pass
		VH		29	0.0347	± 2.5	Pass
		VN	50	40	0.0478	± 2.5	Pass
			40	31	0.0371	± 2.5	Pass
			30	38	0.0454	± 2.5	Pass
			20	43	0.0514	± 2.5	Pass
			10	29	0.0347	± 2.5	Pass
			0	35	0.0418	± 2.5	Pass
			-10	39	0.0466	± 2.5	Pass
			-20	37	0.0442	± 2.5	Pass
			-30	37	0.0442	± 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	28	0.0149	N/A	Pass
		VN		33	0.0176		Pass
		VH		32	0.0170		Pass
		VN	50	29	0.0154		Pass
			40	31	0.0165		Pass
			30	37	0.0197		Pass
			20	24	0.0128		Pass
			10	33	0.0176		Pass
			0	30	0.0160		Pass
			-10	31	0.0165		Pass
			-20	27	0.0144		Pass
			-30	25	0.0133		Pass
Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Pass/ Fail
PCS 1900							
EDGE	661 / 1880.0	VL	TN	33	0.0176	N/A	Pass
		VN		36	0.0191		Pass
		VH		31	0.0165		Pass
		VN	50	28	0.0149		Pass
			40	26	0.0138		Pass
			30	36	0.0191		Pass
			20	29	0.0154		Pass
			10	34	0.0181		Pass
			0	39	0.0207		Pass
			-10	30	0.0160		Pass
			-20	36	0.0191		Pass
			-30	34	0.0181		Pass

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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	32	0.0170	N/A	Pass
		VN		35	0.0186		Pass
		VH		33	0.0176		Pass
		VN	50	36	0.0191		Pass
			40	31	0.0165		Pass
			30	29	0.0154		Pass
			20	26	0.0138		Pass
			10	35	0.0186		Pass
			0	31	0.0165		Pass
			-10	26	0.0138		Pass
			-20	29	0.0154		Pass
			-30	25	0.0133		Pass
Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
WCDMA Band IV							
RMC 12.2kbps	1412 / 1732.4	VL	TN	30	0.0173	N/A	Pass
		VN		33	0.0190		Pass
		VH		29	0.0167		Pass
		VN	50	32	0.0185		Pass
			40	38	0.0219		Pass
			30	39	0.0225		Pass
			20	28	0.0162		Pass
			10	29	0.0167		Pass
			0	36	0.0208		Pass
			-10	32	0.0185		Pass
			-20	39	0.0225		Pass
			-30	26	0.0150		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	39	0.0466	± 2.5	Pass
		VN		35	0.0418	± 2.5	Pass
		VH		31	0.0371	± 2.5	Pass
		VN	50	37	0.0442	± 2.5	Pass
			40	38	0.0454	± 2.5	Pass
			30	31	0.0371	± 2.5	Pass
			20	29	0.0347	± 2.5	Pass
			10	35	0.0418	± 2.5	Pass
			0	29	0.0347	± 2.5	Pass
			-10	33	0.0395	± 2.5	Pass
			-20	36	0.0430	± 2.5	Pass
			-30	31	0.0371	± 2.5	Pass

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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 ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.
