WCDMA band V
REL99 Mode:

Channel 4132

Channel 4183

SRTC
国家无线电监测中心检测中心
The State Radio_monitoring_center Testing Center

Spectrum

Ref Level 46.48 dBm   Offset 16.48 dB   RBW   50 kHz
Att   40 dB   SWT   37.9 µs   VBW 200 kHz   Mode Auto FFT
SGL Count 100/100
1Pk Max

M1[1]   13.18 dBm
                   845.4710 MHz
ndB   26.00 dB
Bw   4.703000000 MHz
Q factor   179.8

CF 846.6 MHz   691 pts   Span 10.0 MHz

Marker

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1		1	845.471 MHz	13.18 dBm	ndB down	4.703 MHz
T1		1	844.241 MHz	-13.19 dBm	ndB	26.00 dB
T2		1	848.944 MHz	-12.68 dBm	Q factor	179.8

Date: 24.JUL.2021 11:03:26

Channel 4233

HSDPA Mode:

Spectrum

Ref Level 46.48 dBm   Offset 16.48 dB   RBW   50 kHz
Att   40 dB   SWT   37.9 µs   VBW 200 kHz   Mode Auto FFT
SGL Count 100/100
1Pk Max

M1[1]   12.86 dBm
                   827.0080 MHz
ndB   26.00 dB
Bw   4.660000000 MHz
Q factor   177.5

CF 826.4 MHz   691 pts   Span 10.0 MHz

Marker

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1		1	827.008 MHz	12.86 dBm	ndB down	4.66 MHz
T1		1	824.07 MHz	-12.98 dBm	ndB	26.00 dB
T2		1	828.73 MHz	-13.38 dBm	Q factor	177.5

Date: 24.JUL.2021 11:23:21

Channel 4132
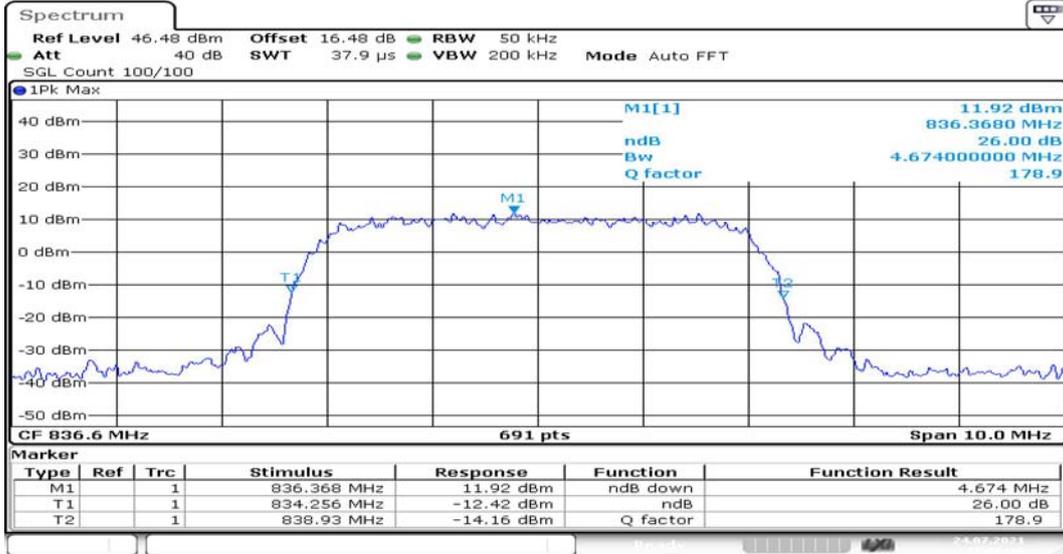
Channel 4183

Channel 4233

HSUPA Mode:

Spectrum

| Ref Level 46.48 dBm | Offset 16.48 dB | RBW 50 kHz |
| Att 40 dB | SWT 37.9 µs | VBW 200 kHz | Mode Auto FFT |

SGL Count 100/100

1Pk Max

M1[1] 15.37 dBm
827.8760 MHz
ndB 26.00 dB
Bw 4.660000000 MHz
Q factor 177.7

CF 826.4 MHz   691 pts   Span 10.0 MHz

Marker

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1		1	827.876 MHz	15.37 dBm	ndB down	4.66 MHz
T1		1	824.07 MHz	-11.30 dBm	ndB	26.00 dB
T2		1	828.73 MHz	-9.97 dBm	Q factor	177.7
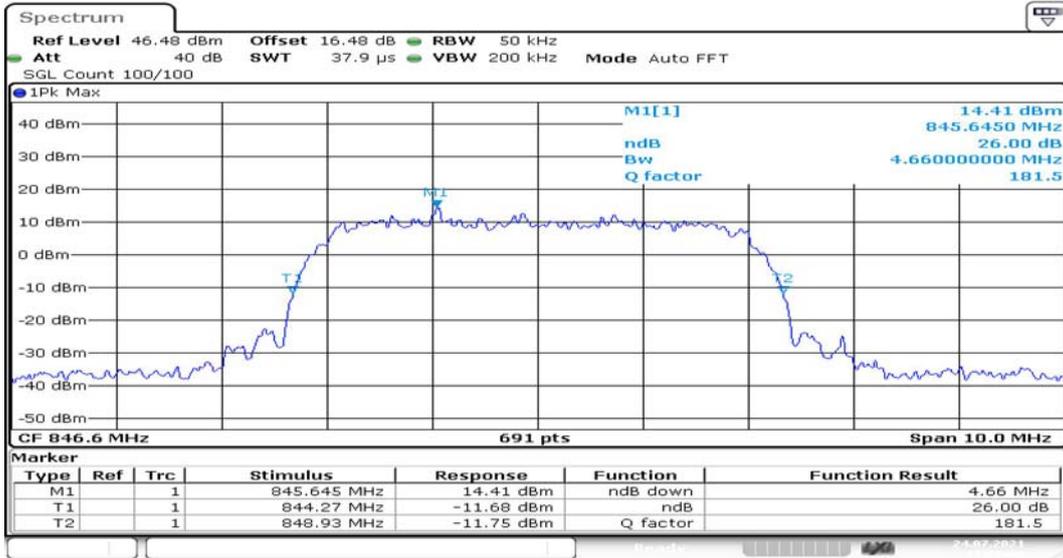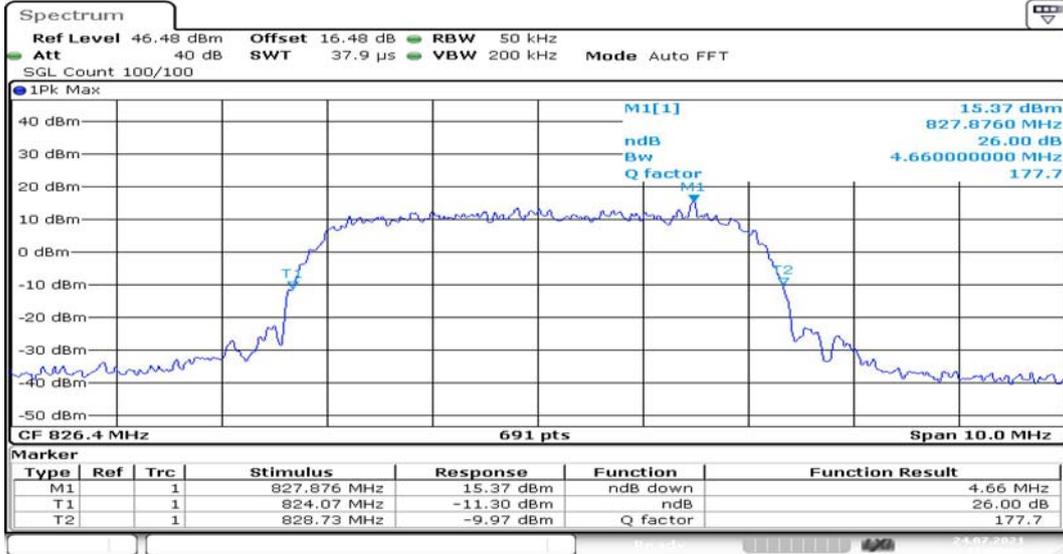
Date: 24.JUL.2021 11:59:00

Channel 4132

Spectrum

| Ref Level 46.48 dBm | Offset 16.48 dB | RBW 50 kHz |
| Att 40 dB | SWT 37.9 µs | VBW 200 kHz | Mode Auto FFT |

SGL Count 100/100

1Pk Max

M1[1] 13.36 dBm
837.8010 MHz
ndB 26.00 dB
Bw 4.689000000 MHz
Q factor 178.7

CF 836.6 MHz   691 pts   Span 10.0 MHz

Marker

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1		1	837.801 MHz	13.36 dBm	ndB down	4.689 MHz
T1		1	834.256 MHz	-12.64 dBm	ndB	26.00 dB
T2		1	838.944 MHz	-12.36 dBm	Q factor	178.7

Date: 24.JUL.2021 12:02:20

Channel 4183

Spectrum

Ref Level 46.48 dBm   Offset 16.48 dB   RBW   50 kHz
Att   40 dB   SWT   37.9 µs   VBW   200 kHz   Mode Auto FFT
SGL Count 100/100

● 1Pk Max

	M1[1]	14.50 dBm
		845.8910 MHz
	ndB	26.00 dB
	Bw	4.660000000 MHz
	Q factor	181.5

CF 846.6 MHz   691 pts   Span 10.0 MHz

Marker

Type	Ref	Trc	Stimulus	Response	Function	Function Result
M1		1	845.891 MHz	14.50 dBm	ndB down	4.66 MHz
T1		1	844.256 MHz	-10.76 dBm	ndB	26.00 dB
T2		1	848.915 MHz	-11.57 dBm	Q factor	181.5

Date: 24.JUL.2021   12:05:39

Channel 4233

20 Spurious Emissions at antenna terminal

WCDMA band V

REL99 Mode:
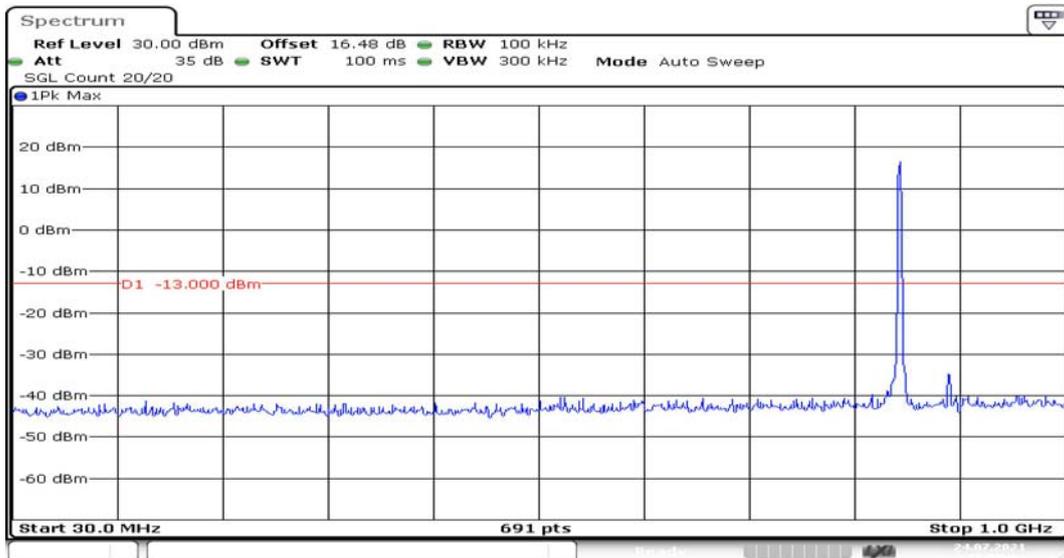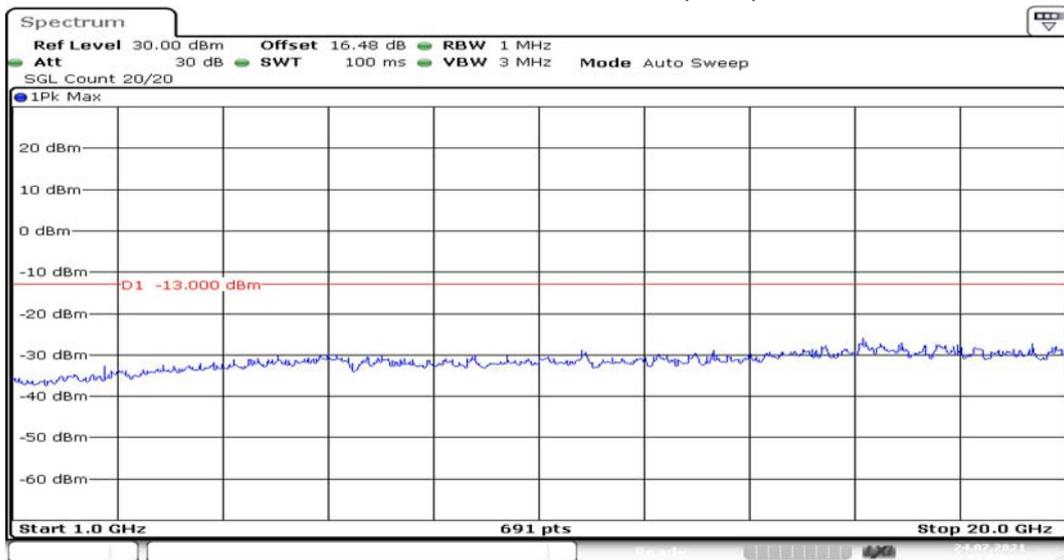
Channel 4183 30MHz~1GHz(dBm)

Channel 4183 1GHz~20GHz(dBm)
Note: The signal beyond the limit is the signal transmitted by EUT.

HSDPA Mode:
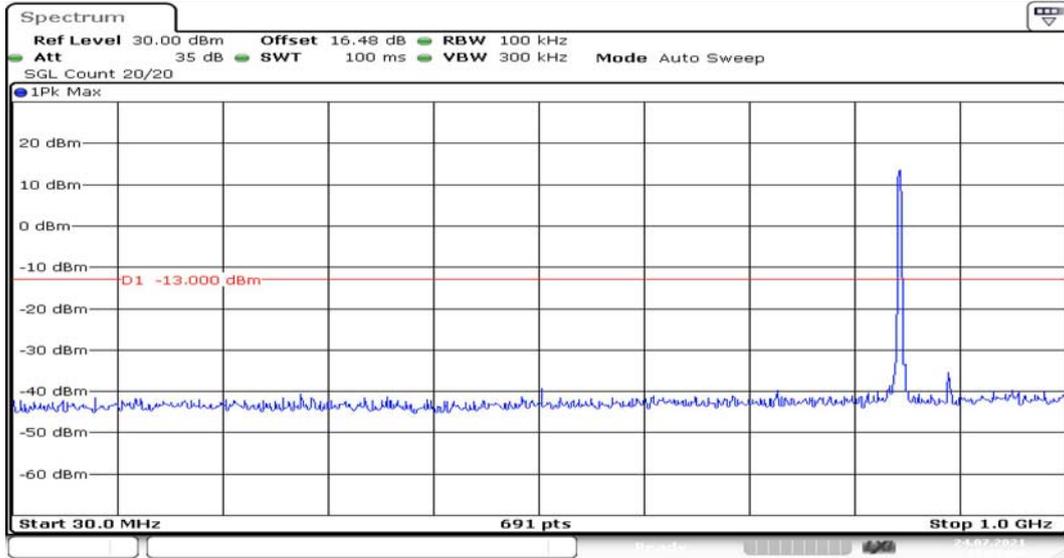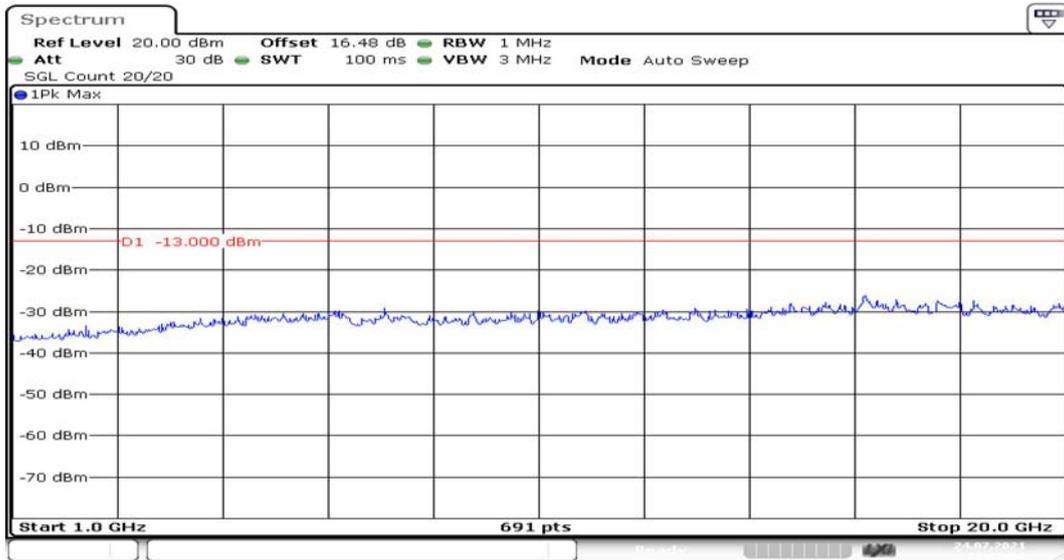
Channel 4183 30MHz~1GHz(dBm)

Channel 4183 1GHz~20GHz(dBm)
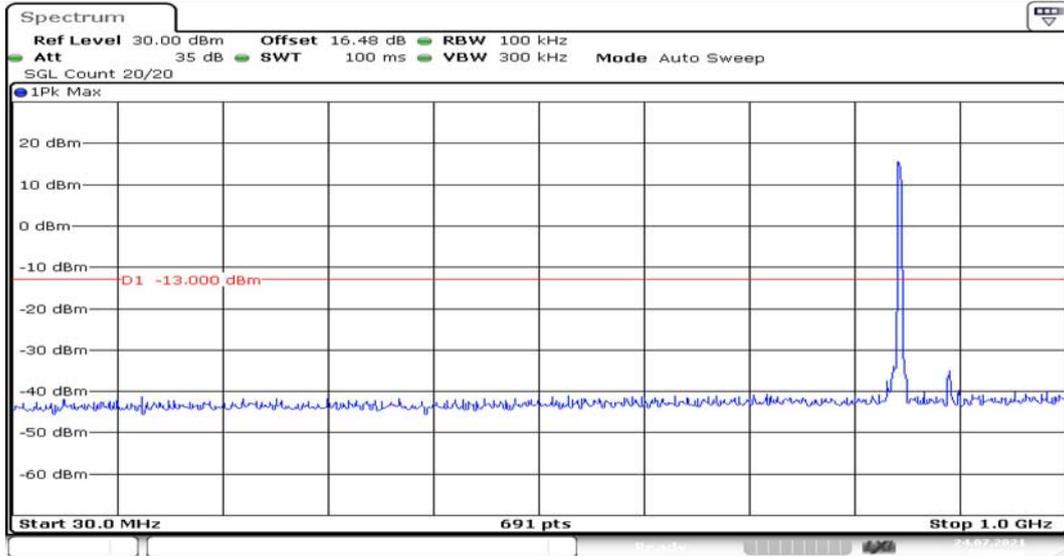Note: The signal beyond the limit is the signal transmitted by EUT.

HSUPA Mode:
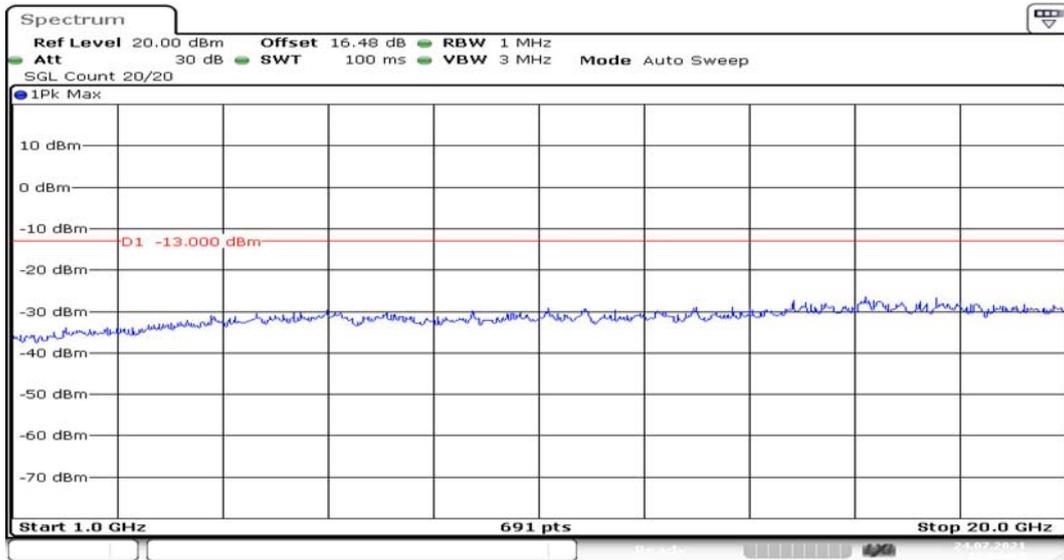
Channel 4183 30MHz~1GHz(dBm)

Channel 4183 1GHz~20GHz(dBm)
Note: The signal beyond the limit is the signal transmitted by EUT.

21 Band Edges Compliance
WCDMA band V
REL99 Mode:

Channel 4132

Channel 4233

HSDPA Mode:

Channel 4132

Channel 4233

HSUPA Mode:
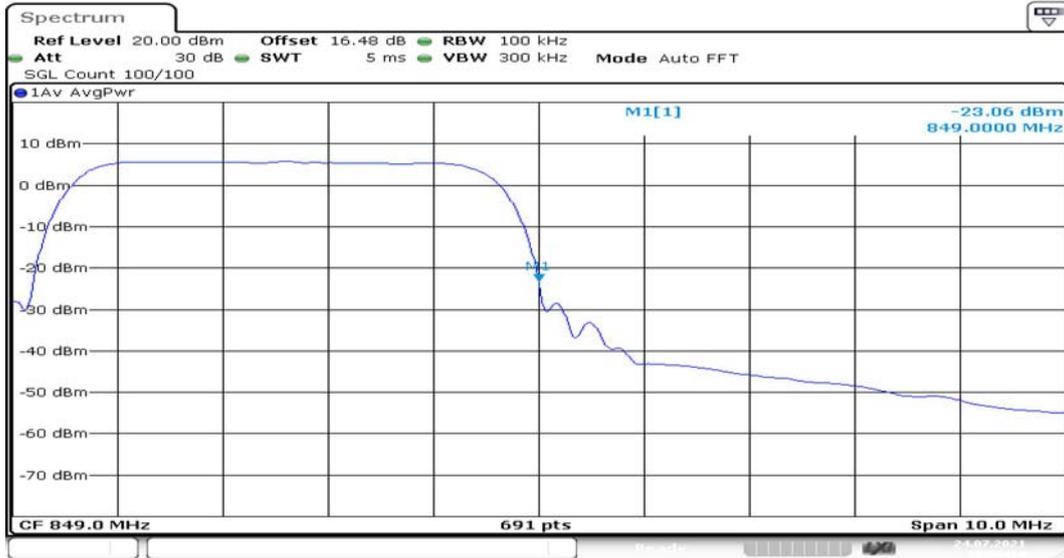
Channel 4132

Channel 4233

22 Frequency Stability

WCDMA band V
REL99 Mode:

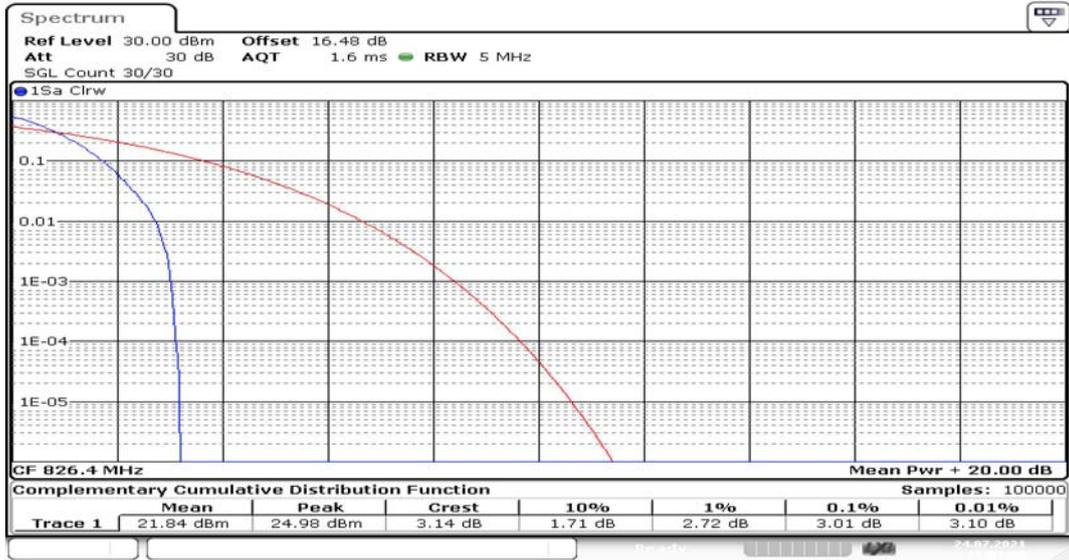| Temperature(°C)	Test Result (ppm)@NV		
	Channel 4132	Channel 4183	Channel 4233
-30	0.002	0.002	0.003
-20	0.000	0.001	0.002
-10	0.001	0.000	0.003
0	0.001	0.000	0.002
+10	0.000	0.000	0.001
+20	0.000	0.000	0.000
+30	0.000	-0.001	0.000
+40	0.001	0.000	0.001
+50	0.002	0.000	0.003
Voltage	Test Result (ppm)@NT		
	Channel 4132	Channel 4183	Channel 4233
LV	0.001	0.000	0.001
HV	0.000	0.000	0.000

HSDPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 4132	Channel 4183	Channel 4233
-30	0	0.001	0.003
-20	0.000	0.000	0.002
-10	0.001	0.000	0.003
0	0.000	0.000	0.002
+10	-0.001	-0.001	0.000
+20	0.000	0.000	0.000
+30	-0.001	-0.001	0.000
+40	0.001	0.000	0.002
+50	0.001	0.000	0.003
Voltage	Test Result (ppm)@NT		
	Channel 4132	Channel 4183	Channel 4233
LV	0.000	0.000	0.001
HV	0.000	-0.001	0.000

HSUPA Mode:

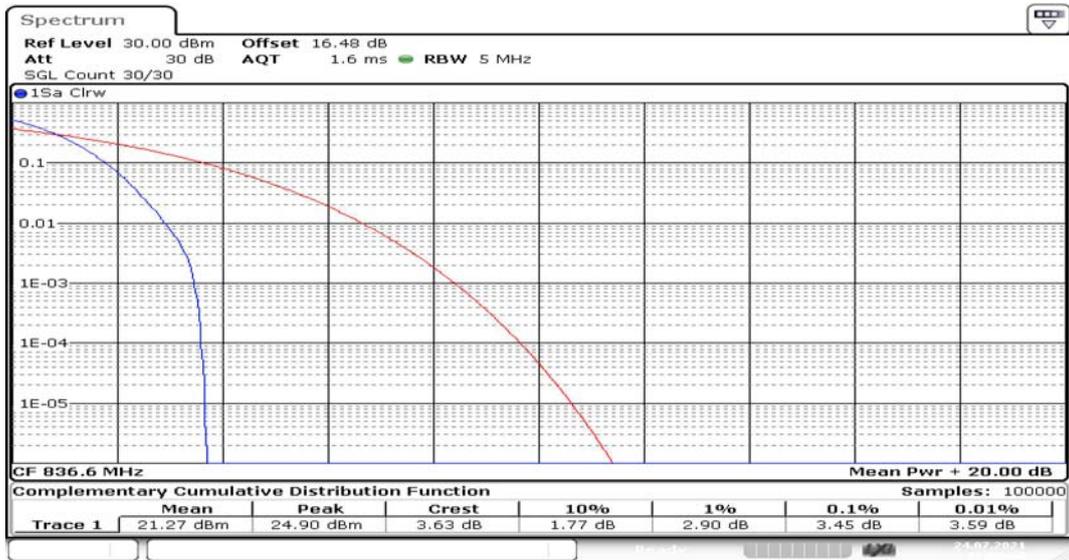| Temperature(°C)	Test Result (ppm)@NV		
	Channel 4132	Channel 4183	Channel 4233
-30	0.001	0	0.002
-20	-0.001	0.000	0.001
-10	0.001	0.000	0.002
0	0.001	0.000	0.001
+10	0.000	-0.001	-0.001

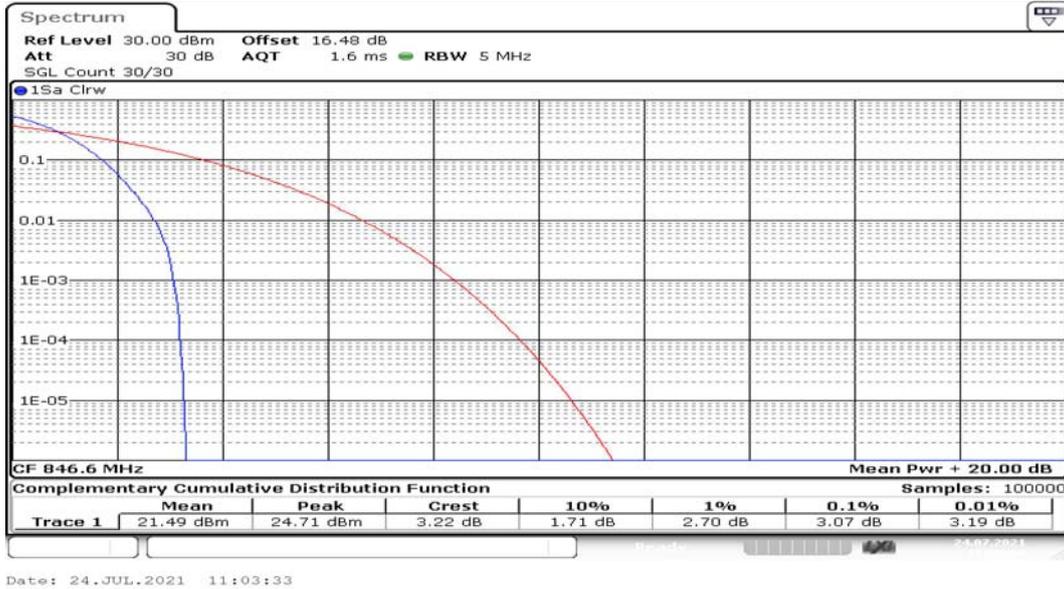| +20	0.000	0.000	0.000
+30	0.000	0.000	0.000
+40	0.002	0.000	0.001
+50	0.002	0.000	0.002
Voltage	Test Result (ppm)@NT		
	Channel 4132	Channel 4183	Channel 4233
LV	0.001	0.000	0.000
HV	0.001	0.000	0.000

23 Peak-Average Ratio
WCDMA band V
REL99 Mode:

Complementary Cumulative Distribution Function   Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.84 dBm	24.98 dBm	3.14 dB	1.71 dB	2.72 dB	3.01 dB	3.10 dB

Date: 24.JUL.2021 11:01:56

Channel 4132

Complementary Cumulative Distribution Function   Samples: 100000

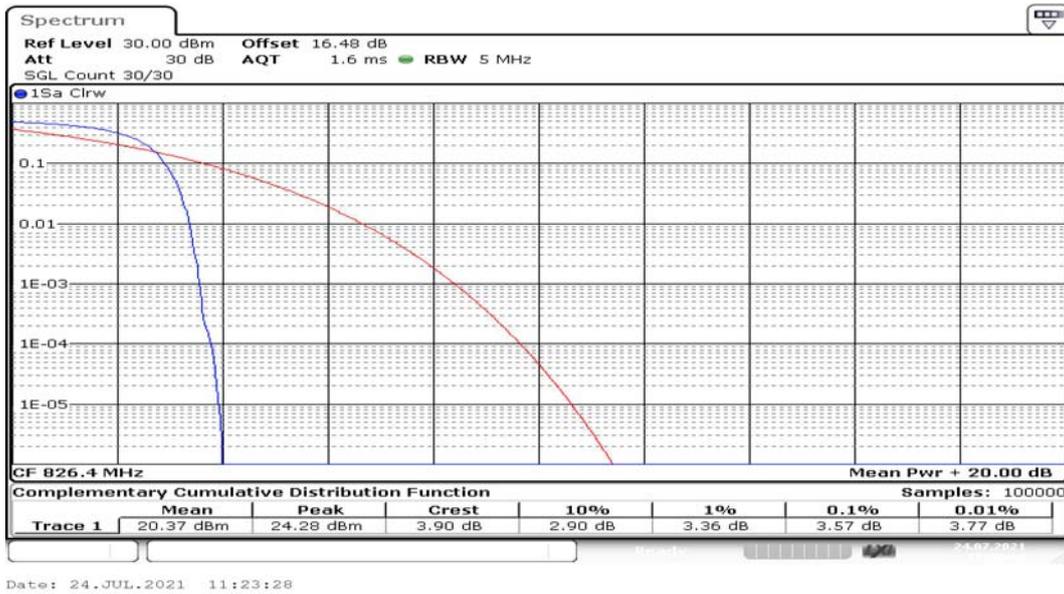|	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.27 dBm	24.90 dBm	3.63 dB	1.77 dB	2.90 dB	3.45 dB	3.59 dB

Date: 24.JUL.2021 11:02:48

Channel 4183

Channel 4233

HSDPA Mode:

Channel 4132

Spectrum

Ref Level 30.00 dBm   Offset 16.48 dB
Att   30 dB   AQT   1.6 ms   RBW 5 MHz
SGL Count 30/30
1Sa Clrw

0.1
0.01
1E-03
1E-04
1E-05

CF 836.6 MHz   Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function   Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.33 dBm	24.86 dBm	4.53 dB	2.87 dB	3.33 dB	3.54 dB	4.12 dB
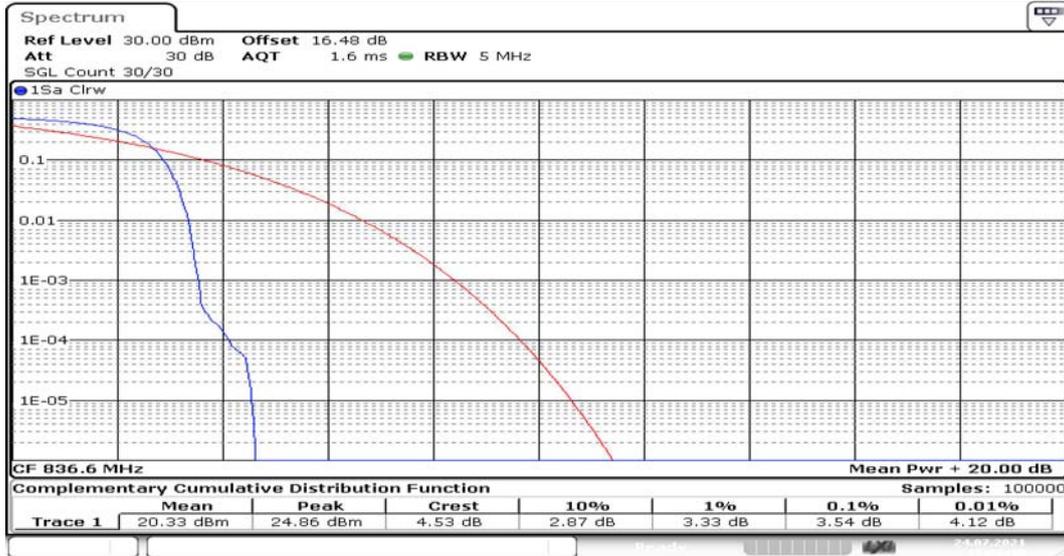
Date: 24.JUL.2021   11:26:17

Channel 4183

Spectrum

Ref Level 30.00 dBm   Offset 16.48 dB
Att   30 dB   AQT   1.6 ms   RBW 5 MHz
SGL Count 30/30
1Sa Clrw

0.1
0.01
1E-03
1E-04
1E-05

CF 846.6 MHz   Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function   Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.30 dBm	24.08 dBm	3.78 dB	2.87 dB	3.39 dB	3.59 dB	3.74 dB
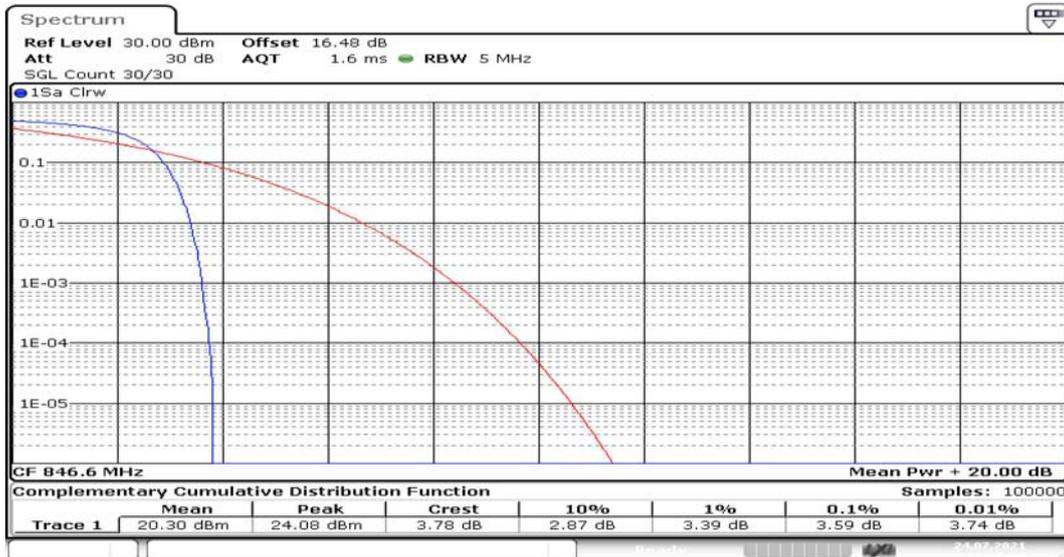
Date: 24.JUL.2021   11:28:49

Channel 4233

HSUPA Mode:

Spectrum

Ref Level 30.00 dBm   Offset 16.48 dB
Att   30 dB   AQT   1.6 ms ● RBW 5 MHz
SGL Count 30/30
● 1Sa Clrw

0.1

0.01

1E-03

1E-04

1E-05

CF 826.4 MHz   Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function   Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.92 dBm	25.14 dBm	3.22 dB	1.68 dB	2.72 dB	3.07 dB	3.19 dB
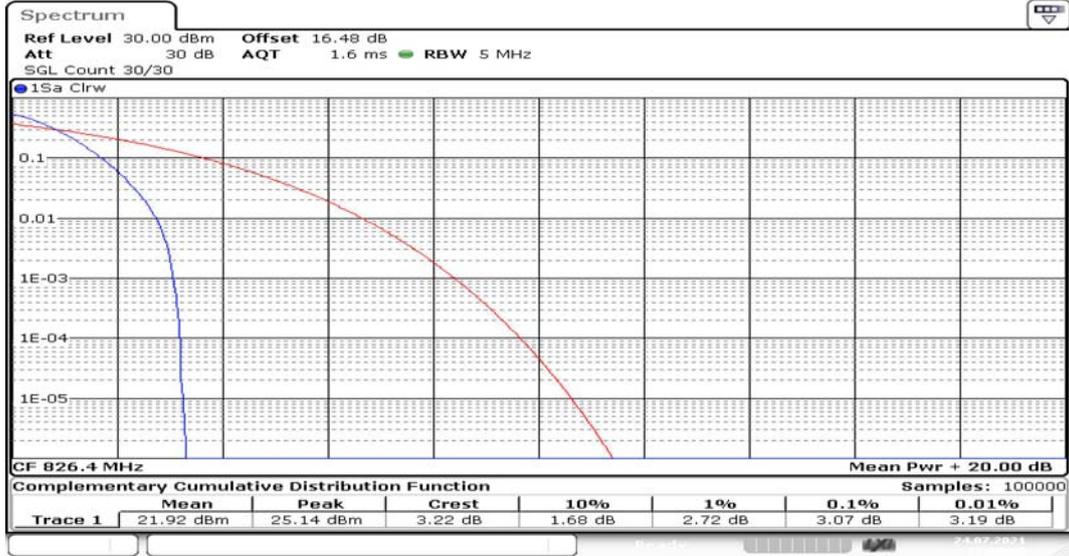
Date: 24.JUL.2021 11:59:08

Channel 4132

Spectrum

Ref Level 30.00 dBm   Offset 16.48 dB
Att   30 dB   AQT   1.6 ms ● RBW 5 MHz
SGL Count 30/30
● 1Sa Clrw

0.1

0.01

1E-03

1E-04

1E-05

CF 836.6 MHz   Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function   Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.93 dBm	23.96 dBm	3.03 dB	1.62 dB	2.61 dB	2.93 dB	3.01 dB
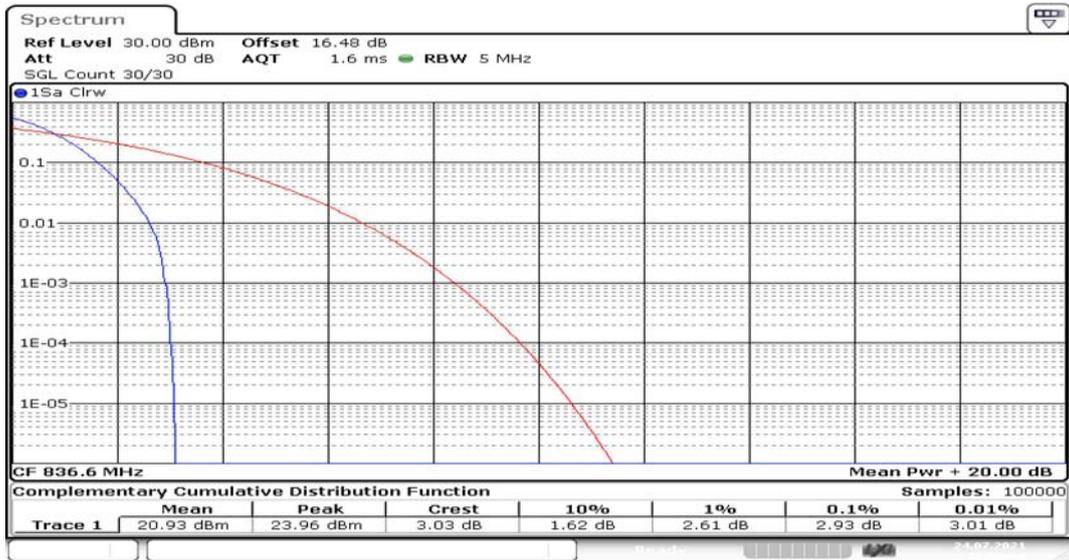
Date: 24.JUL.2021 12:02:27

Channel 4183
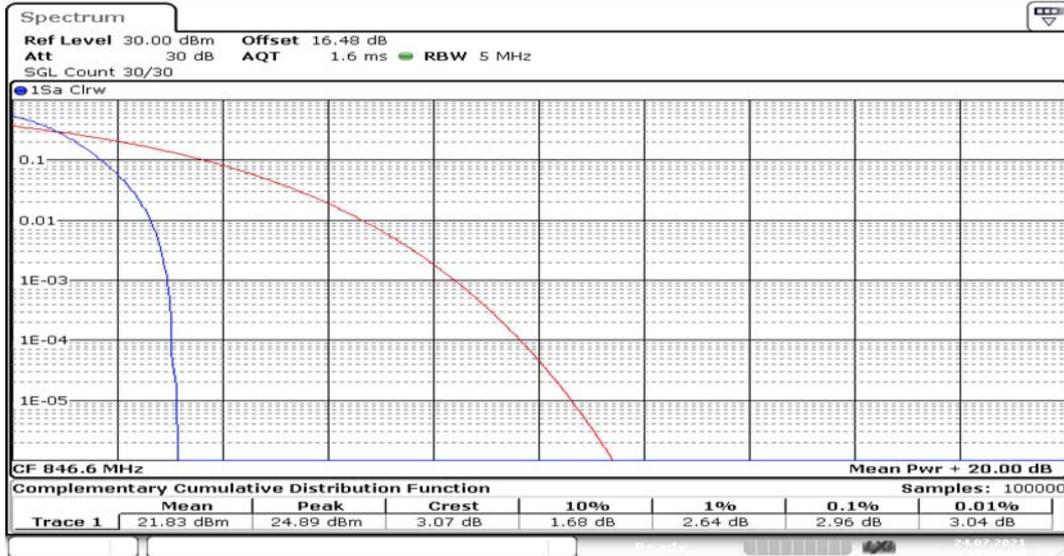
Channel 4233

24 Effective Radiated Power and Effective Isotropic Radiated Power

WCDMA band V

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
Release 99	RMC,12.2 kbps	826.4	4132	23.37	15.72	0.037
		836.6	4183	23.37	15.72	0.037
		846.6	4233	23.34	15.69	0.037
HSDPA	Subtest1	826.4	4132	22.39	14.74	0.030
		836.6	4183	22.37	14.72	0.030
		846.6	4233	22.32	14.67	0.029
	Subtest2	826.4	4132	22.40	14.75	0.030
		836.6	4183	22.37	14.72	0.030
		846.6	4233	22.31	14.66	0.029
	Subtest3	826.4	4132	21.90	14.25	0.027
		836.6	4183	21.88	14.23	0.026
		846.6	4233	21.83	14.18	0.026
	Subtest4	826.4	4132	21.90	14.25	0.027
		836.6	4183	21.78	14.13	0.026
		846.6	4233	21.82	14.17	0.026
HSUPA	Subtest1	826.4	4132	22.38	14.73	0.030
		836.6	4183	22.36	14.71	0.030
		846.6	4233	22.31	14.66	0.029
	Subtest2	826.4	4132	20.35	12.7	0.019
		836.6	4183	20.36	12.71	0.019
		846.6	4233	20.29	12.64	0.018
	Subtest3	826.4	4132	21.38	13.73	0.024
		836.6	4183	21.36	13.71	0.023
		846.6	4233	21.31	13.66	0.023
	Subtest4	826.4	4132	20.02	12.37	0.017
		836.6	4183	20.12	12.47	0.018
		846.6	4233	20.07	12.42	0.017
	Subtest5	826.4	4132	22.37	14.72	0.030
		836.6	4183	22.37	14.72	0.030

| | | 846.6 | 4233 | 22.31 | 14.66 | 0.029 |

APPENDIX B – TEST DATA OF RADIATED EMISSION
Radiated Spurious Emissions

WCDMA band II
Test result:

WCDMA Mode:
Channel 9262

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.57	-48.70	-13	Vertical
2781.43	-47.84	-13	Vertical
3728.09	-40.89	-13	Vertical
6676.19	-40.07	-13	Vertical
9961.37	-37.13	-13	Vertical
17820.02	-33.96	-13	Vertical

Channel 9400

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.85	-48.78	-13	Vertical
2779.19	-47.70	-13	Vertical
3726.02	-40.45	-13	Vertical
6678.84	-39.16	-13	Vertical
9961.34	-37.57	-13	Vertical
17819.85	-33.51	-13	Vertical

Channel 9538

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.01	-48.91	-13	Vertical
2780.61	-47.52	-13	Vertical
3725.81	-40.99	-13	Vertical
6678.49	-39.92	-13	Vertical
9960.24	-36.93	-13	Vertical
17818.40	-33.93	-13	Vertical

HSDPA/HSUPA Mode:
Channel 9262

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.77	-49.42	-13	Vertical
2780.26	-47.76	-13	Vertical
3725.59	-40.75	-13	Vertical
6678.77	-39.30	-13	Vertical
9960.15	-36.99	-13	Vertical
17821.02	-33.79	-13	Vertical

Channel 9400

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.72	-49.06	-13	Vertical
2781.08	-47.41	-13	Vertical
3728.12	-40.51	-13	Vertical
6677.31	-39.80	-13	Vertical
9959.43	-37.64	-13	Vertical
17821.89	-34.01	-13	Vertical

Channel 9538

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.64	-48.62	-13	Vertical
2779.55	-47.44	-13	Vertical
3725.10	-41.12	-13	Vertical
6676.50	-39.62	-13	Vertical
9960.26	-37.63	-13	Vertical
17820.13	-33.57	-13	Vertical

WCDMA band IV
Test result:
WCDMA Mode:
Channel 1312

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.68	-49.47	-13	Vertical
2781.72	-47.11	-13	Vertical
3724.80	-41.22	-13	Vertical
6678.50	-39.77	-13	Vertical
9959.87	-37.50	-13	Vertical
17821.89	-33.71	-13	Vertical

Channel 1412

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.61	-48.73	-13	Vertical
2778.50	-47.29	-13	Vertical
3725.52	-41.08	-13	Vertical
6676.03	-40.03	-13	Vertical
9960.81	-37.32	-13	Vertical
17820.32	-34.38	-13	Vertical

Channel 1513

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.48	-49.37	-13	Vertical
2781.89	-46.97	-13	Vertical
3726.01	-41.20	-13	Vertical
6678.30	-39.98	-13	Vertical
9961.45	-36.83	-13	Vertical
17820.75	-34.34	-13	Vertical

HSDPA/HSUPA Mode:
Channel 1312

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.93	-48.81	-13	Vertical
2780.70	-47.40	-13	Vertical
3726.95	-41.28	-13	Vertical
6677.33	-40.10	-13	Vertical
9962.73	-37.01	-13	Vertical
17819.11	-34.43	-13	Vertical

Channel 1412

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2461.35	-48.56	-13	Vertical
2781.93	-47.81	-13	Vertical
3726.42	-41.02	-13	Vertical
6676.91	-40.10	-13	Vertical
9963.21	-37.39	-13	Vertical
17822.08	-34.23	-13	Vertical

Channel 1513

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.13	-49.41	-13	Vertical
2778.62	-47.83	-13	Vertical
3726.31	-41.30	-13	Vertical
6677.83	-39.78	-13	Vertical
9959.76	-36.87	-13	Vertical
17819.60	-33.95	-13	Vertical

WCDMA band V
Test result:
WCDMA Mode:
Channel 4132

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.58	-53.24	-13	Vertical
1666.85	-51.72	-13	Vertical
2535.77	-44.58	-13	Vertical
2577.42	-44.23	-13	Vertical
8964.03	-39.88	-13	Vertical
9970.55	-36.80	-13	Vertical

Channel 4183

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.76	-53.14	-13	Vertical
1665.68	-51.26	-13	Vertical
2534.02	-44.34	-13	Vertical
2577.61	-44.32	-13	Vertical
8964.24	-39.57	-13	Vertical
9971.69	-35.94	-13	Vertical

Channel 4233

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.63	-52.62	-13	Vertical
1668.04	-51.50	-13	Vertical
2533.67	-44.45	-13	Vertical
2576.72	-44.29	-13	Vertical
8961.97	-39.85	-13	Vertical
9971.30	-36.06	-13	Vertical

HSDPA/HSUPA Mode:

Channel 4132

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.10	-53.34	-13	Vertical
1665.48	-50.82	-13	Vertical
2533.16	-44.30	-13	Vertical
2575.44	-44.57	-13	Vertical
8964.34	-39.46	-13	Vertical
9970.70	-36.05	-13	Vertical

Channel 4183

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.93	-53.08	-13	Vertical
1665.15	-51.55	-13	Vertical
2534.10	-44.40	-13	Vertical
2575.41	-44.60	-13	Vertical
8961.72	-39.63	-13	Vertical
9970.74	-36.24	-13	Vertical

Channel 4233

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.55	-52.91	-13	Vertical
1667.36	-50.93	-13	Vertical
2534.24	-44.42	-13	Vertical
2577.36	-43.99	-13	Vertical
8961.52	-39.52	-13	Vertical
9970.52	-36.16	-13	Vertical

---The end of the test report---