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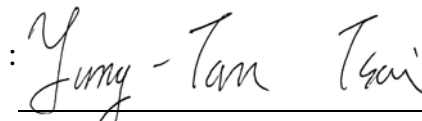


MPE Report

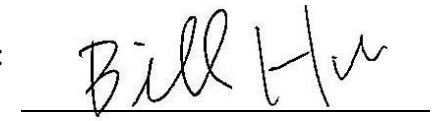
Test Report No.	:	1211FS20-02
Applicant	:	Telit Communications S.p.A.
Manufacturer	:	Telit Communications S.p.A.
Product Type	:	Wireless module
Trade Name	:	Telit
Model Number	:	HC864-AUTO
Date of Received	:	Nov. 06, 2012
Test Period	:	Nov. 23, 2012 ~ Jan. 10, 2013
Date of Issued	:	Jan. 17, 2012
Test Specification	:	47 CFR § 2.1091 47 CFR §1.1310 ANSI / IEEE Std.C95.1-1992
Location of Test Lab.	:	Chang-an Lab.

1. The test operations have to be performed with cautious behavior, the test results are as attached.
2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
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Approved By


(Yung Tan Tsai)

Tested By


(Bill Hu)



Contents

1. Description of Equipment under Test (EUT)	3
2. Human Exposure Assessment.....	4
3. RF Output Power.....	5
4. Test Result.....	10



1. Description of Equipment under Test (EUT)

Applicant	Telit Communications S.p.A.
Applicant Address	Viale Stazione di Prosecco 5/b, Trieste, 34010, Italy
Manufacturer	Telit Communications S.p.A.
Manufacturer Address	Via Stazione di Prosecco, 5/B 34010 Sgonico Italy
Product Type	Wireless module
Trade Name	Telit
Model Number	HC864-AUTO
FCC ID	RI7HC864-AUTO
Frequency Range	GSM/GPRS/EGPRS/DTM 850: 824.2 - 848.8 MHz PCS/GPRS/EGPRS/DTM 1900: 1850.2 - 1909.8 MHz WCDMA(RMC 12.2K)/HSDPA/HSUPA Band II: 1852.4 - 907.6 MHz WCDMA(RMC 12.2K)/HSDPA/HSUPA Band IV: 1712.4 - 1752.6 MHz WCDMA(RMC 12.2K)/HSDPA/HSUPA Band V: 826.4 - 846.6 MHz
Transmit Power (AVG. Conducted Power)	GSM/GPRS/EGPRS/DTM 850 850: 1.770 W / 32.48 dBm PCS/GPRS/EGPRS/DTM 850 1900: 0.883 W / 29.46 dBm WCDMA(RMC 12.2K)/HSDPA/HSUPA Band II: 0.248 W / 23.94 dBm WCDMA(RMC 12.2K)/HSDPA/HSUPA Band IV: 0.241 W / 23.82 dBm WCDMA(RMC 12.2K)/HSDPA/HSUPA Band V: 0.242 W / 23.84 dBm
Antenna Specification	GSM 850: 2.0 dBi PCS 1900: 2.0 dBi WCDMA Band II: 2.0 dBi WCDMA Band IV: 2.0 dBi WCDMA Band V: 2.0 dBi
Antenna Designation	Dipole Antenna
Temperature Range	-30 ~ +70°C

The above equipment was tested by A Test Lab Techno Corp. For compliance with the requirements set forth in 47 CFR § 2.1091 & 47 CFR § 1.1310. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties



2. Human Exposure Assessment

Due to the design and installation of this product, it is not possible to conduct SAR evaluation. This is because client either manufactures or supplies the antenna(s) that will be used in the installation of this product. Therefore, this product will be evaluated as a mobile device per 47 CFR §1.1310 titled "Radiofrequency radiation exposure limits", generally referred to as MPE limits.

In 47 CFR § 2.1091, paragraph (b) defines a mobile device as "a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 cm is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons." This product is intended to be installed into a vehicle such that the unit is physically secured at one location. In the installation guide supplied with the product,

Client has made the following statement: "IMPORTANT: To meet the FCC's RF Exposure Guidelines, the antenna should be installed so there is at least 20 cm of separation between the body of the user and nearby persons and the antenna". Based on the installation of the transceiver and the antenna, the transmitters radiating structure is more than 20 cm from the user. Thus, this product is a "mobile device" as defined in section § 2.1091 paragraph (b).

Exposure evaluation

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna.

Note: For evaluated 2G system, the transmission power P + G should be consider duty cycle.



3. RF Output Power

Band	Data Rate	CH	Frequency (MHz)	Conducted power (dBm)		Worst Case
				Source Base Avg.	Avg. burst	
GSM850	1Down1Up Duty Factor 1/8	128	824.2	23.45	32.48	<input type="checkbox"/>
		190	836.6	23.29	32.32	<input type="checkbox"/>
		251	848.8	23.34	32.37	<input type="checkbox"/>
GPRS850	4Down1Up Duty Factor 1/8	128	824.2	23.38	32.41	<input type="checkbox"/>
		190	836.6	23.34	32.37	<input type="checkbox"/>
		251	848.8	23.36	32.39	<input type="checkbox"/>
	3Down2Up Duty Factor 2/8	128	824.2	24.51	30.53	<input type="checkbox"/>
		190	836.6	24.56	30.58	<input type="checkbox"/>
		251	848.8	24.54	30.56	<input type="checkbox"/>
	2Down3Up Duty Factor 3/8	128	824.2	24.99	29.25	<input type="checkbox"/>
		190	836.6	25.01	29.27	<input type="checkbox"/>
		251	848.8	25.05	29.31	<input checked="" type="checkbox"/>
	1Down4Up Duty Factor 4/8	128	824.2	24.85	27.86	<input type="checkbox"/>
		190	836.6	24.80	27.81	<input type="checkbox"/>
		251	848.8	24.86	27.87	<input type="checkbox"/>
EGPRS850	4Down1Up Duty Factor 1/8	128	824.2	18.22	27.25	<input type="checkbox"/>
		190	836.6	18.38	27.41	<input type="checkbox"/>
		251	848.8	18.41	27.44	<input type="checkbox"/>
	3Down2Up Duty Factor 2/8	128	824.2	20.99	27.01	<input type="checkbox"/>
		190	836.6	21.12	27.14	<input type="checkbox"/>
		251	848.8	21.13	27.15	<input type="checkbox"/>
	2Down3Up Duty Factor 3/8	128	824.2	21.65	25.91	<input type="checkbox"/>
		190	836.6	21.78	26.04	<input type="checkbox"/>
		251	848.8	21.79	26.05	<input type="checkbox"/>
	1Down4Up Duty Factor 4/8	128	824.2	21.87	24.88	<input type="checkbox"/>
		190	836.6	21.93	24.94	<input type="checkbox"/>
		251	848.8	21.95	24.96	<input type="checkbox"/>
DTM850 (GSM+GPRS)	2Down3Up Duty Factor 3/8	128	824.2	24.98	29.24	<input type="checkbox"/>
		190	836.6	24.88	29.14	<input type="checkbox"/>
		251	848.8	24.88	29.14	<input type="checkbox"/>
DTM850 (GSM+EGPRS)	2Down3Up Duty Factor 3/8	128	824.2	21.34	25.60	<input type="checkbox"/>
		190	836.6	21.34	25.60	<input type="checkbox"/>
		251	848.8	21.34	25.60	<input type="checkbox"/>



Band	Data Rate	CH	Frequency (MHz)	Conducted power (dBm)		Worst Case
				Source Base Avg.	Avg. burst	
PCS1900	1Down1Up Duty Factor 1/8	512	1850.2	20.43	29.46	<input type="checkbox"/>
		661	1880.0	20.07	29.10	<input type="checkbox"/>
		810	1909.8	20.18	29.21	<input type="checkbox"/>
GPRS1900	4Down1Up Duty Factor 1/8	512	1850.2	20.20	29.23	<input type="checkbox"/>
		661	1880.0	19.91	28.94	<input type="checkbox"/>
		810	1909.8	19.86	28.89	<input type="checkbox"/>
	3Down2Up Duty Factor 2/8	512	1850.2	22.92	28.94	<input type="checkbox"/>
		661	1880.0	22.81	28.83	<input type="checkbox"/>
		810	1909.8	23.19	29.21	<input type="checkbox"/>
	2Down3Up Duty Factor 3/8	512	1850.2	23.59	27.85	<input type="checkbox"/>
		661	1880.0	23.36	27.62	<input type="checkbox"/>
		810	1909.8	23.70	27.96	<input type="checkbox"/>
	1Down4Up Duty Factor 4/8	512	1850.2	24.00	27.01	<input type="checkbox"/>
		661	1880.0	23.74	26.75	<input type="checkbox"/>
		810	1909.8	24.07	27.08	<input checked="" type="checkbox"/>
EGPRS1900	4Down1Up Duty Factor 1/8	512	1850.2	16.54	25.57	<input type="checkbox"/>
		661	1880.0	16.21	25.24	<input type="checkbox"/>
		810	1909.8	16.46	25.49	<input type="checkbox"/>
	3Down2Up Duty Factor 2/8	512	1850.2	19.05	25.07	<input type="checkbox"/>
		661	1880.0	18.79	24.81	<input type="checkbox"/>
		810	1909.8	18.95	24.97	<input type="checkbox"/>
	2Down3Up Duty Factor 3/8	512	1850.2	20.28	24.54	<input type="checkbox"/>
		661	1880.0	20.02	24.28	<input type="checkbox"/>
		810	1909.8	20.22	24.48	<input type="checkbox"/>
	1Down4Up Duty Factor 4/8	512	1850.2	20.61	23.62	<input type="checkbox"/>
		661	1880.0	20.33	23.34	<input type="checkbox"/>
		810	1909.8	20.47	23.48	<input type="checkbox"/>
DTM1900 (GSM+GPRS)	2Down3Up Duty Factor 3/8	512	1850.2	22.94	27.20	<input type="checkbox"/>
		661	1880.0	22.94	27.20	<input type="checkbox"/>
		810	1909.8	23.24	27.50	<input type="checkbox"/>
DTM1900 (GSM+EGPRS)	2Down3Up Duty Factor 3/8	512	1850.2	19.84	24.10	<input type="checkbox"/>
		661	1880.0	19.84	24.10	<input type="checkbox"/>
		810	1909.8	20.04	24.30	<input type="checkbox"/>



Band	Data Rate	CH	Frequency (MHz)	Conducted power (dBm)	Worst Case
				Avg. burst	
WCDMA Band II	---	9262	1852.4	23.62	<input type="checkbox"/>
		9400	1880.0	23.94	<input checked="" type="checkbox"/>
		9538	1907.6	23.75	<input type="checkbox"/>
HSDPA Band II	1	9262	1852.4	23.51	<input type="checkbox"/>
		9400	1880.0	23.77	<input type="checkbox"/>
		9538	1907.6	23.65	<input type="checkbox"/>
	2	9262	1852.4	23.50	<input type="checkbox"/>
		9400	1880.0	23.75	<input type="checkbox"/>
		9538	1907.6	23.65	<input type="checkbox"/>
	3	9262	1852.4	23.02	<input type="checkbox"/>
		9400	1880.0	23.29	<input type="checkbox"/>
		9538	1907.6	23.17	<input type="checkbox"/>
	4	9262	1852.4	23.01	<input type="checkbox"/>
		9400	1880.0	23.25	<input type="checkbox"/>
		9538	1907.6	23.16	<input type="checkbox"/>
HSUPA Band II	1	9262	1852.4	22.13	<input type="checkbox"/>
		9400	1880.0	22.39	<input type="checkbox"/>
		9538	1907.6	22.28	<input type="checkbox"/>
	2	9262	1852.4	20.06	<input type="checkbox"/>
		9400	1880.0	20.33	<input type="checkbox"/>
		9538	1907.6	20.23	<input type="checkbox"/>
	3	9262	1852.4	21.12	<input type="checkbox"/>
		9400	1880.0	21.37	<input type="checkbox"/>
		9538	1907.6	21.24	<input type="checkbox"/>
	4	9262	1852.4	20.09	<input type="checkbox"/>
		9400	1880.0	20.34	<input type="checkbox"/>
		9538	1907.6	20.23	<input type="checkbox"/>
	5	9262	1852.4	22.07	<input type="checkbox"/>
		9400	1880.0	22.34	<input type="checkbox"/>
		9538	1907.6	22.20	<input type="checkbox"/>



Band	Data Rate	CH	Frequency (MHz)	Conducted power (dBm)	Worst Case
				Avg. burst	
WCDMA Band IV	---	1312	1712.4	23.16	<input type="checkbox"/>
		1413	1732.6	23.82	<input checked="" type="checkbox"/>
		1513	1752.6	23.42	<input type="checkbox"/>
HSDPA Band IV	1	1312	1712.4	22.52	<input type="checkbox"/>
		1413	1732.6	23.15	<input type="checkbox"/>
		1513	1752.6	22.87	<input type="checkbox"/>
	2	1312	1712.4	22.51	<input type="checkbox"/>
		1413	1732.6	23.13	<input type="checkbox"/>
		1513	1752.6	22.87	<input type="checkbox"/>
	3	1312	1712.4	22.03	<input type="checkbox"/>
		1413	1732.6	22.67	<input type="checkbox"/>
		1513	1752.6	22.39	<input type="checkbox"/>
	4	1312	1712.4	22.02	<input type="checkbox"/>
		1413	1732.6	22.63	<input type="checkbox"/>
		1513	1752.6	22.38	<input type="checkbox"/>
HSUPA Band IV	1	1312	1712.4	22.18	<input type="checkbox"/>
		1413	1732.6	22.43	<input type="checkbox"/>
		1513	1752.6	22.27	<input type="checkbox"/>
	2	1312	1712.4	20.17	<input type="checkbox"/>
		1413	1732.6	20.40	<input type="checkbox"/>
		1513	1752.6	20.26	<input type="checkbox"/>
	3	1312	1712.4	21.17	<input type="checkbox"/>
		1413	1732.6	21.42	<input type="checkbox"/>
		1513	1752.6	21.25	<input type="checkbox"/>
	4	1312	1712.4	20.17	<input type="checkbox"/>
		1413	1732.6	20.42	<input type="checkbox"/>
		1513	1752.6	20.25	<input type="checkbox"/>
	5	1312	1712.4	22.16	<input type="checkbox"/>
		1413	1732.6	22.40	<input type="checkbox"/>
		1513	1752.6	22.24	<input type="checkbox"/>



Band	Data Rate	CH	Frequency (MHz)	Conducted power (dBm)	Worst Case
				Avg. burst	
WCDMA Band V	---	4132	826.4	23.67	<input type="checkbox"/>
		4183	836.6	23.84	<input checked="" type="checkbox"/>
		4233	846.4	23.75	<input type="checkbox"/>
HSDPA Band V	1	4132	826.4	23.35	<input type="checkbox"/>
		4183	836.6	23.64	<input type="checkbox"/>
		4233	846.4	23.51	<input type="checkbox"/>
	2	4132	826.4	23.34	<input type="checkbox"/>
		4183	836.6	23.62	<input type="checkbox"/>
		4233	846.4	23.51	<input type="checkbox"/>
	3	4132	826.4	22.86	<input type="checkbox"/>
		4183	836.6	23.16	<input type="checkbox"/>
		4233	846.4	23.03	<input type="checkbox"/>
	4	4132	826.4	22.85	<input type="checkbox"/>
		4183	836.6	23.12	<input type="checkbox"/>
		4233	846.4	23.02	<input type="checkbox"/>
HSUPA Band V	1	4132	826.4	22.48	<input type="checkbox"/>
		4183	836.6	22.65	<input type="checkbox"/>
		4233	846.4	22.60	<input type="checkbox"/>
	2	4132	826.4	20.42	<input type="checkbox"/>
		4183	836.6	20.59	<input type="checkbox"/>
		4233	846.4	20.55	<input type="checkbox"/>
	3	4132	826.4	21.46	<input type="checkbox"/>
		4183	836.6	21.62	<input type="checkbox"/>
		4233	846.4	21.57	<input type="checkbox"/>
	4	4132	826.4	20.45	<input type="checkbox"/>
		4183	836.6	20.61	<input type="checkbox"/>
		4233	846.4	20.55	<input type="checkbox"/>
	5	4132	826.4	22.42	<input type="checkbox"/>
		4183	836.6	22.59	<input type="checkbox"/>
		4233	846.4	22.53	<input type="checkbox"/>



4. Test Result

Band	Data Rate	Frequency (MHz)	Limit (mw/cm ²)	Min. Distance (cm) [R]	Max tune-up (dBm)	Duty Cycle	Max tune-up Source based Average power [P]	ANT Gain (dBi) [G]	[P]+ [G] with Duty (W) [TP]	Power Density [S] (mw/cm ²)
GSM 850	1Down1Up	824.2	0.549	20	32.80	0.125	23.77	2.00	0.378	0.075
		836.6	0.558	20	32.80	0.125	23.77	2.00	0.378	0.075
		848.8	0.566	20	32.80	0.125	23.77	2.00	0.378	0.075
GPRS 850	4Down1Up	824.2	0.549	20	32.50	0.125	23.47	2.00	0.352	0.070
		836.6	0.558	20	32.50	0.125	23.47	2.00	0.352	0.070
		848.8	0.566	20	32.50	0.125	23.47	2.00	0.352	0.070
	3Down2Up	824.2	0.549	20	31.00	0.250	24.98	2.00	0.499	0.099
		836.6	0.558	20	31.00	0.250	24.98	2.00	0.499	0.099
		848.8	0.566	20	31.00	0.250	24.98	2.00	0.499	0.099
	2Down3Up	824.2	0.549	20	29.50	0.375	25.24	2.00	0.530	0.105
		836.6	0.558	20	29.50	0.375	25.24	2.00	0.530	0.105
		848.8	0.566	20	29.50	0.375	25.24	2.00	0.530	0.105
	1Down4Up	824.2	0.549	20	28.00	0.500	24.99	2.00	0.500	0.099
		836.6	0.558	20	28.00	0.500	24.99	2.00	0.500	0.099
		848.8	0.566	20	28.00	0.500	24.99	2.00	0.500	0.099
EGPRS 850	4Down1Up	824.2	0.549	20	27.50	0.125	18.47	2.00	0.111	0.022
		836.6	0.558	20	27.50	0.125	18.47	2.00	0.111	0.022
		848.8	0.566	20	27.50	0.125	18.47	2.00	0.111	0.022
	3Down2Up	824.2	0.549	20	27.50	0.250	21.48	2.00	0.223	0.044
		836.6	0.558	20	27.50	0.250	21.48	2.00	0.223	0.044
		848.8	0.566	20	27.50	0.250	21.48	2.00	0.223	0.044
	2Down3Up	824.2	0.549	20	26.50	0.375	22.24	2.00	0.265	0.053
		836.6	0.558	20	26.50	0.375	22.24	2.00	0.265	0.053
		848.8	0.566	20	26.50	0.375	22.24	2.00	0.265	0.053
	1Down4Up	824.2	0.549	20	25.00	0.500	21.99	2.00	0.251	0.050
		836.6	0.558	20	25.00	0.500	21.99	2.00	0.251	0.050
		848.8	0.566	20	25.00	0.500	21.99	2.00	0.251	0.050
DTM850 (GSM+GPRS)	2Down3Up	824.2	0.549	20	29.50	0.375	25.24	2.00	0.530	0.105
		836.6	0.558	20	29.50	0.375	25.24	2.00	0.530	0.105
		848.8	0.566	20	29.50	0.375	25.24	2.00	0.530	0.105
DTM850 (GSM+EGPRS)	2Down3Up	824.2	0.549	20	26.50	0.375	22.24	2.00	0.265	0.053
		836.6	0.558	20	26.50	0.375	22.24	2.00	0.265	0.053
		848.8	0.566	20	26.50	0.375	22.24	2.00	0.265	0.053



Band	Data Rate	Frequency (MHz)	Limit (mw/cm ²)	Min. Distance (cm) [R]	Max tune-up (dBm)	Duty Cycle	Max tune-up Source based Average power [P]	ANT Gain (dBi) [G]	[P]+ [G] with Duty (W) [TP]	Power Density [S] (mw/cm ²)
PCS 1900	1Down1Up	1850.2	1.000	20	29.80	0.125	20.77	2.00	0.189	0.038
		1880.0	1.000	20	29.80	0.125	20.77	2.00	0.189	0.038
		1909.8	1.000	20	29.80	0.125	20.77	2.00	0.189	0.038
GPRS 1900	4Down1Up	1850.2	1.000	20	29.50	0.125	20.47	2.00	0.177	0.035
		1880.0	1.000	20	29.50	0.125	20.47	2.00	0.177	0.035
		1909.8	1.000	20	29.50	0.125	20.47	2.00	0.177	0.035
	3Down2Up	1850.2	1.000	20	29.50	0.250	23.48	2.00	0.353	0.070
		1880.0	1.000	20	29.50	0.250	23.48	2.00	0.353	0.070
		1909.8	1.000	20	29.50	0.250	23.48	2.00	0.353	0.070
	2Down3Up	1850.2	1.000	20	28.00	0.375	23.74	2.00	0.375	0.075
		1880.0	1.000	20	28.00	0.375	23.74	2.00	0.375	0.075
		1909.8	1.000	20	28.00	0.375	23.74	2.00	0.375	0.075
	1Down4Up	1850.2	1.000	20	27.50	24.49	0.500	2.00	0.446	0.089
		1880.0	1.000	20	27.50	24.49	0.500	2.00	0.446	0.089
		1909.8	1.000	20	27.50	24.49	0.500	2.00	0.446	0.089
EGPRS 1900	4Down1Up	1850.2	1.000	20	26.00	0.125	16.97	2.00	0.079	0.016
		1880.0	1.000	20	26.00	0.125	16.97	2.00	0.079	0.016
		1909.8	1.000	20	26.00	0.125	16.97	2.00	0.079	0.016
	3Down2Up	1850.2	1.000	20	25.50	0.250	19.48	2.00	0.141	0.028
		1880.0	1.000	20	25.50	0.250	19.48	2.00	0.141	0.028
		1909.8	1.000	20	25.50	0.250	19.48	2.00	0.141	0.028
	2Down3Up	1850.2	1.000	20	25.00	0.375	20.74	2.00	0.188	0.037
		1880.0	1.000	20	25.00	0.375	20.74	2.00	0.188	0.037
		1909.8	1.000	20	25.00	0.375	20.74	2.00	0.188	0.037
	1Down4Up	1850.2	1.000	20	24.00	0.500	20.99	2.00	0.199	0.040
		1880.0	1.000	20	24.00	0.500	20.99	2.00	0.199	0.040
		1909.8	1.000	20	24.00	0.500	20.99	2.00	0.199	0.040
DTM1900 (GSM+GPRS)	2Down3Up	1850.2	1.000	20	28.00	0.375	23.74	2.00	0.375	0.075
		1880.0	1.000	20	28.00	0.375	23.74	2.00	0.375	0.075
		1909.8	1.000	20	28.00	0.375	23.74	2.00	0.375	0.075
DTM1900 (GSM+EGPRS)	2Down3Up	1850.2	1.000	20	25.00	0.375	20.74	2.00	0.188	0.037
		1880.0	1.000	20	25.00	0.375	20.74	2.00	0.188	0.037
		1909.8	1.000	20	25.00	0.375	20.74	2.00	0.188	0.037



Band	Sub-Test	Frequency (MHz)	Limit (mw/cm ²)	Min. Distance (cm) [R]	Max tune-up (dBm)	Duty Cycle	Max tune-up Source based Average power [P]	ANT Gain (dBi) [G]	[P]+ [G] with Duty (W) [TP]	Power Density [S] (mw/cm ²)
WCDMA Band II	-----	1852.4	1.000	20	24.00	1.000	24.00	2.00	0.398	0.079
		1880.0	1.000	20	24.00	1.000	24.00	2.00	0.398	0.079
		1907.6	1.000	20	24.00	1.000	24.00	2.00	0.398	0.079
WCDMA Band IV	-----	1712.4	1.000	20	24.00	1.000	24.00	2.00	0.398	0.079
		1732.6	1.000	20	24.00	1.000	24.00	2.00	0.398	0.079
		1752.6	1.000	20	24.00	1.000	24.00	2.00	0.398	0.079
WCDMA Band V	-----	826.4	0.551	20	24.00	1.000	24.00	2.00	0.398	0.079
		836.6	0.558	20	24.00	1.000	24.00	2.00	0.398	0.079
		846.6	0.564	20	24.00	1.000	24.00	2.00	0.398	0.079