



TUV SUD BABT TCB

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REF: **Product similarity declaration**

Model: **LE920-NA** FCC ID: **RI7LE920NA1** IC: **5131A-LE920NA1**

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The product LE920-NA is a variant of the previously certified device:

Model: **LE920-NAG**
FCC ID: **RI7LE920NA1**
IC: **5131A-LE920NA1**

The main differences between LE920-NA and LE920-NAG is summarised below:

- Higher memory for customers' applications
- 2G operation is disabled by SW (NOTE: Some test reports submitted still shows test results for 2G operation as the testing was performed before the 2G operation was disabled)
- Duplexer for band LTE FDD 17
- Adding LTE FDD 7

PCB layout, circuitry components and components and software for the rest of frequency bands remains unchanged being un-affected the frequency bands:

- WCDMA/HSPA: FDD II, FDD IV and FDD V
- LTE: FDD 2, FDD 4, FDD 5

The following test plan has been performed to evaluate the compliance of the device:

- Emissions as unintentional radiator
- Full RF testing of the frequency bands which has been affected by a HW change:
 - LTE FDD 7
 - LTE FDD 17
- Partial RF testing in the frequency bands which has not been affected by the HW change:
 - WCDMA/HSPA: FDD II, FDD IV and FDD V
 - LTE: FDD 2, FDD 4, FDD 5

The partial RF testing performed in these frequency bands has been performed to confirm that the test results from LE920-NAG can be leveraged to the new device LE920-NA. The summary of the re-testing performed is the following one:

- Radiated measurement
- Conducted output power to verify that the emissions remain equivalent (average output power variation lower than 0.5 dB) to the previous certified device. A summary of the deviations between measured average output power of LE920-NAG and LE920-NA can be found the following table:



Frequency band	Operation mode		FCC ID: RI7LE920NA	FCC ID: RI7LE920NA1	Deviation (dBm)
			IC: 5131A-LE920NA	IC: 5131A-LE920NA1	
			Power (dBm)	Power (dBm)	
FDD V	WCDMA		24,93	24,78	-0,15
	HSDPA		24,91	24,88	-0,03
	HSUPA		24,86	24,80	-0,06
FDD II	WCDMA		24,96	24,88	-0,08
	HSDPA		24,93	24,88	-0,05
	HSUPA		24,92	24,81	-0,11
FDD IV	WCDMA		24,93	24,96	0,03
	HSDPA		24,83	24,91	0,08
	HSUPA		24,82	24,89	0,07
FDD 5	5 MHz BW	QPSK	23,98	23,96	-0,02
		16QAM	23,20	23,17	-0,03
	10 MHz BW	QPSK	24,06	23,91	-0,15
		16QAM	22,98	22,86	-0,12
FDD 4	5 MHz BW	QPSK	24,02	23,60	-0,42
		16QAM	23,14	22,65	-0,49
	10 MHz BW	QPSK	23,72	23,24	-0,48
		16QAM	22,88	22,51	-0,37
	20 MHz BW	QPSK	23,12	23,04	-0,08
		16QAM	22,00	21,98	-0,02
FDD 2	5 MHz BW	QPSK	24,33	23,97	-0,36
		16QAM	23,76	23,32	-0,44
	10 MHz BW	QPSK	24,34	23,91	-0,43
		16QAM	23,52	23,28	-0,24
	20 MHz BW	QPSK	24,64	24,21	-0,43
		16QAM	23,78	23,45	-0,33

Signed on behalf of **Telit Communications S.p.A.**

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