28 June 2019

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Radio Test Data explanation summary according KDB 484596

Federal Communications Commission
Equipment Authorization Division,
Application Processing Branch
7435 Oakland Mills Road
Columbia, MD 21048

To whom it may concern:

We, **Robert Bosch Tool Corporation**, due hereby declare that the test results from conducted tests applied to the radio module:

Manufacturer: µ-blox
Model: SARA-R410M-02B
FCC-ID: XPY2AGQN4NNN
IC: 8595A-2AGQN4NNN

which is incorporated in our host equipment:

Manufacturer: **Robert Bosch Tool Corporation**
Model: GPS25-4
FCC ID: TXTGPS25-4
IC: 909H-GPS254

and as reported in module test report(s):

Report Number:	SD72128174-0517A	Issue Date: May 2017
Report Number:	SD72128174-0517B	Issue Date: May 2017

accurately represent the test results under the new conditions when the identified radio module is integrated in the identified host equipment. By integration of the said radio module into the identified host equipment, no changes were made to it or by external adaptation circuitry, that impacts the validity of the results of the original module's test reports.

FCC ID TXTGPS25-4 is referencing to FCC ID XPY2AGQN4NNN as following:

Equipment class	Rule part	Frequency band
PCB	27	699.0 – 716.0
PCB	27	699.0 – 716.0
PCB	27	1710.0 – 1755.0
PCB	27	1710.0 – 1755.0
PCB	22H	824.0 – 849.0
PCB	22H	824.0 – 849.0
PCB	24E	1850.0 – 1910.0
PCB	24E	1850.0 – 1910.0

Spot Check Test Data Section:

1.1. TX mode, Test overview of FCC and Canada IC/ISED (RSS) Standards

No. of Diagram group	Test case	Port	References & Limits			EUT set-up	EUT op-mode	Result
			FCC Standard	RSS Section	Test limit			
1	AC-Power Lines Emissions Conducted (0,15 - 30 MHz)	AC-Power lines (conducted)	§15.207	RSS-Gen, Issue 4: Chapter 8.8	§15.207 limits ISED: Table 3, Chapter 8.8	1	1+2+3 +4	Passed
2	General field strength emissions (9 kHz - 30 MHz)	Cabinet + inter-connecting cables (radiated)	§15.209(a)	RSS-Gen, Issue 4: Chapter 8.9, Table 5+6	2400/F(kHz) µV/m 24000/F(kHz) µV/m 30 µV/m	1	1+2+3 +4	passed
7	RF-Power (ERP/EIRP)		§2.1046 §22.913(a)(2)	RSS-132, Issue 3: Chapter 5.4 SRSP-503: 5.1.3	< 7 Watt (ERP)	1	1+2+3 +4	Calculated passed
			§24.232(c)	RSS-133, Issue 6 Chapter 4.1/6.4 SRSP-510: 5.1.2	< 2 Watt (EIRP)			
			§27.50 (d)(4)	RSS-139: Issue 3 Chapter 6.5 SRSP-513: 5.1.2	< 1 Watt (EIRP)			
			§27.50(c)(10)	RSS-130, Issue 1, Chapter 4.4	< 3 Watt (ERP)			
8	Spurious emissions		§2.1053(a) §2.1057	RSS-Gen., Issue 4	43+10log(P) dBc	1	1+2+3 +4	passed
			§22.917(a)(b)	RSS-132: Chapter 5.5(i)(ii)				
9	Band-Edge compliance		§24.238(a)(b)	RSS-133: Chapter 6.5.1(i)(ii)		1	1+2+3 +4	passed
			§27.53(h)(1)(3) (i)(ii)(iii)	RSS-139: Issue 3 Chapter 6.6 (i) (ii)				
			§27.53(g)	RSS-130: Issue 1 Chapter 4.6.1				

30	RF Power	Antenna terminal (conducted)	§2.1046	--	N/A	1	1+2+3 +4	passed

Please refer to the following reports containing spot check data:

Report Number: CETECOM_TR17_1_0172601T21a_C3 Issue Date: June 2019

Referenced Test Data Section:

34	26dB Emission bandwidth	Antenna terminal (conducted)	§2.1049(h)	RSS-Gen, Issue 4, Chapter 6.6	26dBc Emissions BW 99% Power	--	--	Not performed see initial modules's certification
35	99% Occupied bandwidth							
36	Spurious emissions		§2.1051 §2.1057 §22.917(a)(b) §24.238(a)(b) §27.53	RSS-132, Issue 3: 5.5(i)(ii) RSS-133, Issue 6: 6.5.1(i)(ii) RSS-139, Issue 3 Chapt. 6.6 (i) (ii) RSS-130, Issue 1 Chapt. 4.6.1 Chapt. 4.6.2	43+10log(P) dBc			Not performed see initial modules's certification
37	Band-Edge compliance							Not performed see initial modules's certification
38	Frequency stability		§22.355, table C-1 §24.235 §2.1055(a)(2) §27.54	RSS-132, Issue 3: Chapter 5.3 RSS-133, Issue 6: Chapter 6.3 RSS-130, Issue 1: Chapter 4.3 RSS-139, Issue 3, Chapter 6.4	< ±2.5ppm or ±0.1ppm			Not performed see initial modules's certification

Please refer to the following reports containing referenced data:

Report Number: SD72128174-0517A Issue Date: May 2017

Report Number: SD72128174-0517B Issue Date: May 2017

Sincerely,

Gerard Pasciak
Approvals Engineer