

TEST REPORT



Test report no.: 1-2842/16-01-10

Testing laboratory

CTC advanced GmbH

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Accredited Testing Laboratory:

The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2005) by the Deutsche Akkreditierungsstelle GmbH (DAkkS) The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with the registration number: D-PL-12076-01-01

Applicant

Philips Medizin Systeme Böblingen GmbHHewlett-Packard-Strasse 271034 Böblingen / GERMANYPhone:-/-Fax:+49 7031 463-2499Contact:Hansjörg Geywitze-mail:hansjoerg.geywitz@philips.comPhone:+49 7031 463-1879

Manufacturer

Philips Medizin Systeme Böblingen GmbH Hewlett-Packard-Strasse 2 71034 Böblingen / GERMANY

Test standard/s

47 CFR Part 15 Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices

RSS-210 Issue 9 Licence-Exempt Radio Apparatus: Category I Equipment

For further applied test standards please refer to section 3 of this test report.

Test Item Kind of test item: 2.4 GHz transceiver Model name: IntelliVue CL NBP Pod 865216 FCC ID: PQC-CLNBPBV2 IC: 3549C-CLNBPBV2 13.56 MHz Frequency: Technology tested: RFID Antenna: Integrated loop antenna Power supply: 3.7 V DC by Li-ion battery -20°C to +55°C Temperature range:

This test report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test report authorized:

Stefan Bös Lab Manager Radio Communications & EMC

Test performed:

Marco Bertolino Lab Manager Radio Communications & EMC

Test report no.: 1-2842/16-01-10



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2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. CTC advanced GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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2.2 Application details

Date of receipt of order:	2016-11-17
Date of receipt of test item:	2017-01-30
Start of test:	2017-02-01
End of test:	2017-02-03
Person(s) present during the test:	-/-

2.3 Test laboratories sub-contracted

None



3 Test standard/s and references

Test standard	Date	Description
47 CFR Part 15	-/-	Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices
RSS-210 Issue 9	August 2016	Licence-Exempt Radio Apparatus: Category I Equipment
RSS - Gen Issue 4	November 2014	Spectrum Management and Telecommunications Radio Standards Specifications - General Requirements and Information for the Certification of Radio Apparatus

Guidance	Version	Description
ANSI C63.4-2014	-/-	American national standard for methods of measurement of radio- noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz
ANSI C63.10-2013	-/-	American national standard of procedures for compliance testing of unlicensed wireless devices

4 Test environment

		T _{nom}	+22 °C during room temperature tests		
Temperature	:	T _{max}	+50 °C during high temperature tests		
		T _{min}	-20 °C during low temperature tests		
Relative humidity content	:		35 %		
Barometric pressure	:		1021 hpa		
		Vnom	3.7 V DC by Li-ion battery		
Power supply	:	V _{max}	4.3 V		
		V _{min}	3.1 V		

5 Test item

5.1 General description

Kind of test item :	2.4 GHz transceiver
Type identification :	IntelliVue CL NBP Pod 865216
HMN :	-/-
PMN :	865216
HVIN :	865216
FVIN :	-/-
S/N serial number :	Radiated unit: DE03801770
HW hardware status :	1
SW software status :	D.00.70
Frequency band :	13.553 MHz to 13.567 MHz Carrier: 13.56 MHz
Type of radio transmission : Use of frequency spectrum :	modulated carrier
Type of modulation :	OOK
Number of channels :	1
Antenna :	Integrated loop antenna
Power supply :	3.7 V DC by Li-ion battery
Temperature range :	-20°C to +55°C

5.2 Additional information

The content of the following annexes is defined in the QA. It may be that not all of the listed annexes are necessary for this report, thus some values in between may be missing.

Test setup- and EUT-photos are included in test report:

1-2842/16-01-07_AnnexA 1-2842/16-01-07_AnnexB 1-2842/16-01-07_AnnexD



6 Description of the test setup

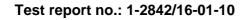
Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, RF generating and signaling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Lab/Item).

Agenda: Kind of Calibration

- k calibration / calibrated
- ne not required (k, ev, izw, zw not required)
- ev periodic self verification
- Ve long-term stability recognized
- vlkl! Attention: extended calibration interval
- NK! Attention: not calibrated

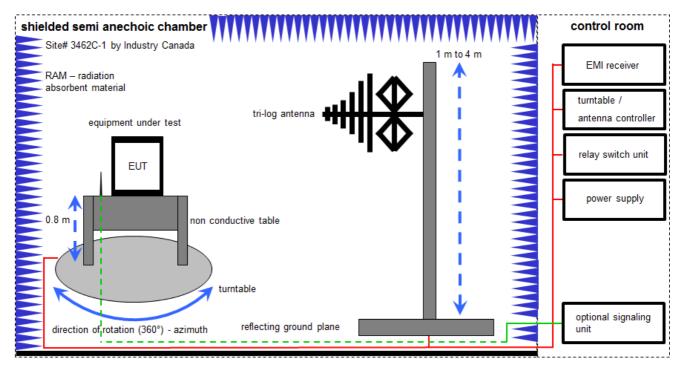
- EK limited calibration
- zw cyclical maintenance (external cyclical maintenance)
- izw internal cyclical maintenance
- g blocked for accredited testing
- *) next calibration ordered / currently in progress





6.1 Shielded semi anechoic chamber

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 1 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber. The receiving antennas are conform to specifications ANSI C63. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received. The wanted and unwanted emissions are received by spectrum analyzers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63.



Measurement distance: tri-log antenna 10 meter

FS = UR + CL + AF

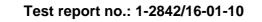
(FS-field strength; UR-voltage at the receiver; CL-loss of the cable; AF-antenna factor)

Example calculation:

 $FS [dB\mu V/m] = 12.35 [dB\mu V/m] + 1.90 [dB] + 16.80 [dB/m] = 31.05 [dB\mu V/m] (35.69 \mu V/m)$

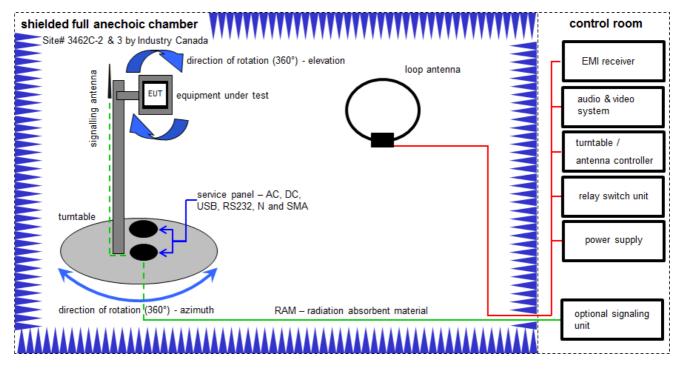
Equipment table:

No.	Lab / Item	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	Α	Switch-Unit	3488A	HP	2719A14505	300000368	ev	-/-	-/-
2	Α	EMI Test Receiver	ESCI 3	R&S	100083	300003312	k	08.03.2016	08.03.2017
3	Α	Antenna Tower	Model 2175	ETS-Lindgren	64762	300003745	izw	-/-	-/-
4	А	Positioning Controller	Model 2090	ETS-Lindgren	64672	300003746	izw	-/-	-/-
5	А	Turntable Interface- Box	Model 105637	ETS-Lindgren	44583	300003747	izw	-/-	-/-
6	A	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	295	300003787	k	25.04.2016	25.04.2018





6.2 Shielded fully anechoic chamber



Measurement distance: loop antenna 3 meter

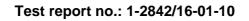
FS = UR + CA + AF (FS-field strength; UR-voltage at the receiver; CA-loss of the signal path; AF-antenna factor)

Example calculation:

 $\overline{FS} [dB\mu V/m] = 40.0 [dB\mu V/m] + (-35.8) [dB] + 32.9 [dB/m] = 37.1 [dB\mu V/m] (71.61 \mu V/m)$

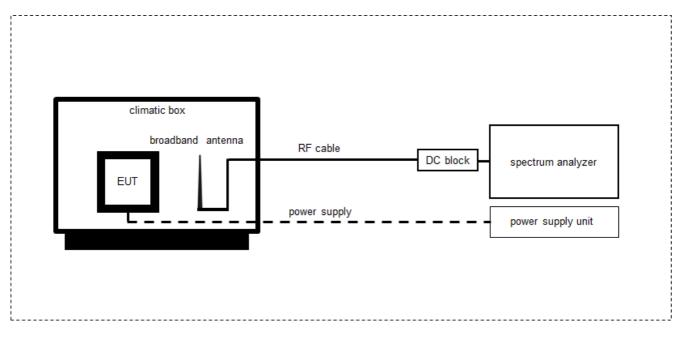
Equipment table:

No.	Lab / Item	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	A	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev	-/-	-/-
2	Α	Switch / Control Unit	3488A	HP	*	300000199	ne	-/-	-/-
3	А	Active Loop Antenna 10 kHz to 30 MHz	6502	EMCO/2	8905-2342	300000256	k	24.06.2015	24.06.2017
4	А	EMI Test Receiver 20Hz- 26,5GHz	ESU26	R&S	100037	300003555	k	31.01.2017	30.01.2018
5	А	4U RF Switch Platform	L4491A	Agilent Technologies	MY50000037	300004509	ne	-/-	-/-





6.3 Test setup for normalized measurement configurations & frequency error



Equipment table:

No.	Lab / Item	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	А, В	Power Supply 0- 20V; 0-5A	6632B	HP	US37478366	400000117	ne	-/-	-/-
2	В	Temperature Test Chamber	VT 4002	Heraeus Voetsch	521/84193	300003889	ev	03.09.2015	03.09.2017
3	Α, Β	Signal Analyzer 40 GHz	FSV40	R&S	101353	300004819	k	19.09.2016	19.09.2017
4	A, B	RF-Cable WLAN- Tester Analyzer	ST18/SMAm/SMAm/ 36	Huber & Suhner	Batch no. 54876	400001220	ev	-/-	-/-



7 Sequence of testing

7.1 Sequence of testing radiated spurious 9 kHz to 30 MHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer.
- If the EUT is a tabletop system, a 2-axis positioner with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed directly on the turn table.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C 63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 3 m (see ANSI C 63.4) see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.5 m.
- At each turntable position the analyzer sweeps with positive-peak detector to find the maximum of all emissions.

Final measurement

- Identified emissions during the premeasurement are maximized by the software by rotating the turntable from 0° to 360°. In case of the 2-axis positioner is used the elevation axis is also rotated from 0° to 360°.
- The final measurement is done in the position (turntable and elevation) causing the highest emissions with quasi-peak (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. A plot with the graph of the premeasurement and the limit is stored.

7.2 Sequence of testing radiated spurious 30 MHz to 1 GHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C 63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 10 m or 3 m (see ANSI C 63.4) see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 m to 3 m.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement

- The final measurement is performed for at least six highest peaks according to the requirements of the ANSI C63.4.
- Based on antenna and turntable positions at which the peak values are measured the software maximize the peaks by changing turntable position ± 45° and antenna height between 1 and 4 m.
- The final measurement is done with quasi-peak detector (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit are recorded. A plot with the graph of the premeasurement with marked maximum final results and the limit is stored.

8 Measurement uncertainty

Measurement uncertainty							
Test case	Uncertainty						
Occupied bandwidth	± used RBW						
Field strength of the fundamental	± 3 dB						
Field strength of the harmonics and spurious	± 3 dB						
Receiver spurious emissions and cabinet radiations	± 3 dB						
Conducted limits	± 2.6 dB						

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9 Summary of measurement results

\square	No deviations from the technical specifications were ascertained
	There were deviations from the technical specifications ascertained
	This test report is only a partial test report. The content and verdict of the performed test cases are listed below.

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CTC |

TC Identifier	Description	Verdict	Date	Remark
	CFR Part 15			
RF-Testing	RSS-210 Issue 9	See table!	2017-02-23	-/-
	RSS Gen Issue 4			

Test specification clause	Test case	Temperature conditions	Power source conditions	С	NC	NA	NP	Remark
RSS Gen Issue 4	Occupied bandwidth	Nominal	Nominal	\boxtimes				-/-
§ 15.225 (a) RSS-210 Issue 9 B.6	Field strength of the fundamental	Nominal	Nominal	\boxtimes				-/-
§ 15.209 & § 15.225 (b-d) RSS-210 Issue 9 B.6	Field strength of the harmonics and spurious	Nominal	Nominal	\boxtimes				-/-
§ 15.109 RSS Gen Issue 4	Receiver spurious emissions and cabinet radiations	Nominal	Nominal					No stand- alone receiver mode!
§15.107 §15.207	Conducted limits	Nominal	Nominal					Battery powered only!
§ 15.225 (a) RSS-210 Issue 9 B.6	Frequency tolerance	Normal & extreme conditions	Normal & extreme conditions					-/-

Note:

C Compliant NC Not compliant NA Not applicable NP Not performed

10 Additional comments

Reference documents: Questionnaire_IntelliVue CL NBP Pod

Special test descriptions: None

Configuration descriptions: None



11 Measurement results

11.1 Occupied bandwidth

Measurement:

The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal.

Measurement parameters				
Detector:	Peak			
Resolution bandwidth:	1 % (9.41 kHz) – 5 % (47.1 kHz)			
Resolution bandwidth.	of the occupied bandwidth			
Video bandwidth:	≥ 3x RBW			
Trace mode:	Max hold			
Analyzer function:	99 % power function			
Used equipment:	See chapter 6.3 – A			
Measurement uncertainty:	See chapter 8			

Limit:

IC
for RSP-100 test report coversheet only

Result:

99% emission bandwidth

941 kHz

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Plot:

Plot 1: 99 % emission bandwidth



Date:1.FEB.2017 15:28:21

11.2 Field strength of the fundamental

Measurement:

The maximum detected field strength for the carrier signal.

Measurement parameters				
Detector:	Quasi peak / peak (worst case)			
Resolution bandwidth:	120 kHz			
Video bandwidth:	≥ 3x RBW			
Trace mode:	Max hold			
Used equipment:	See chapter 6.2 – A			
Measurement uncertainty:	See chapter 8			

Limit:

	FCC & IC					
Frequency	Field strength	Measurement distance				
(MHz)	(µV/m)	(m)				
13.553 to 13.567	15,848 (84 dBµV/m)	30				

Recalculation:

	According to ANSI C63.10						
Frequency	Formula	Correction value from 3m to 30m					
13.56 MHz	$\begin{split} & FS_{limit} = FS_{max} - 40 \log \left(\frac{d_{\textit{leastfield}}}{d_{\textit{measure}}} \right) - 20 \log (\frac{d_{\textit{limit}}}{d_{\textit{measure}}}) \\ & FS_{imit} & \text{is the calculation of field strength at the limit distance,} \\ & expressed in dB_{\mu}V/m \\ & FS_{max} & \text{is the measured field strength, expressed in dB_{\mu}V/m} \\ & fS_{max} & \text{is the measured field strength, expressed in dB_{\mu}V/m} \\ & d_{measure} & \text{is the distance of the measurement point from EUT} \\ & d_{imit} & \text{is the reference limit distance} \\ \end{split}$	-21.4 dB					

According to ANSI C63.10

Result:

Field strength of the fundamental					
Frequency 13.56 MHz					
Distance	@ 3 m @ 30 m				
Measured / calculated value	57.0 dBμV/m (peak) 56.0 dBμV/m (QP)	35.6 dBμV/m (peak) 34.6 dBμV/m (QP)			

11.3 Field strength of the harmonics and spurious

Measurement:

The maximum detected field strength for the harmonics and spurious.

Measurement parameters		
Detector:	Quasi peak / average or	
Delector.	peak (worst case – pre-scan)	
	F < 150 kHz: 200 Hz	
Resolution bandwidth:	150 kHz < F < 30 MHz: 9 kHz	
	30 MHz < F < 1 GHz: 120 kHz	
	F < 150 kHz: ≥ 1 kHz	
Video bandwidth:	150 kHz < F < 30 MHz: ≥ 100 kHz	
	30 MHz < F < 1 GHz: ≥ 300 kHz	
Trace mode:	Max hold	
Llood oquinmont:	See chapter 6.1 – A	
Used equipment:	See chapter 6.2 – A	
Measurement uncertainty:	See chapter 8	

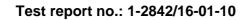
Limit:

FCC & IC						
Frequency	Field strength	Measurement distance				
(MHz)	(dBµV/m)	(m)				
0.009 - 0.490	2400/F(kHz)	300				
0.490 – 1.705	24000/F(kHz)	30				
1.705 – 30	30 (29.5 dBµV/m)	30				
30 – 88	100 (40 dBµV/m)	3				
88 – 216	150 (43.5 dBµV/m)	3				
216 – 960	200 (46 dBµV/m)	3				

Note: For a reduced measurement distance, please take a look at the limit line and the ANSI C63.10-2013 sub clause 6.4 radiated emissions from unlicensed wireless devices below 30 MHz.

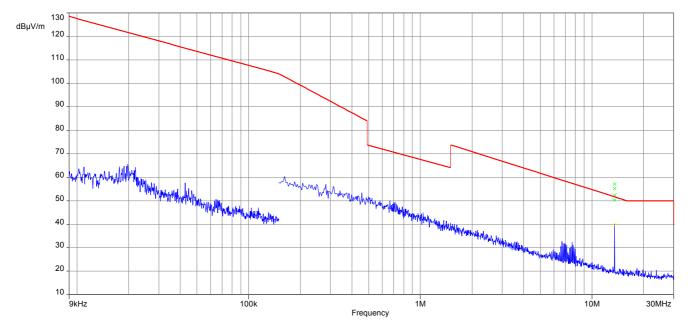
Result:

Detected emissions						
Frequency	Detector	Resolution bandwidth	Detected value			
(MHz)	Delector	(kHz)	(dBµV/m @ 3m)			
	All detected emissions are more than 20 dB below the limit.					



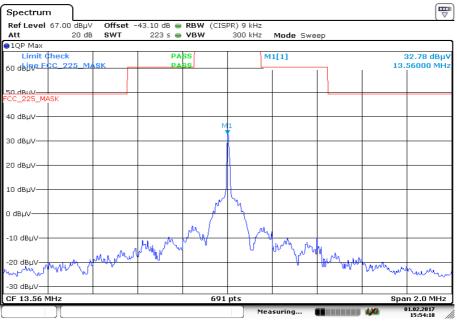


Plots:



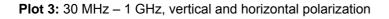
Plot 1: 9 kHz – 30 MHz, magnetic emissions

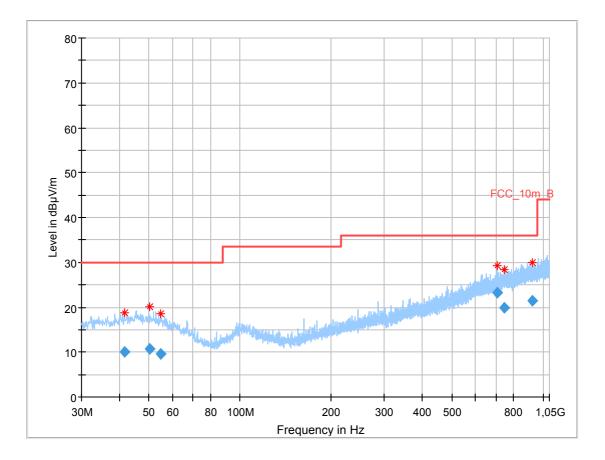
Plot 2: Spectrum mask (the limits are recalculated according to the ANSI C63.10-2013 sub clause 6.4)



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Final_Result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.590650	10.13	30.00	19.87	1000.0	120.000	101.0	V	76.0	13.3
50.464800	10.63	30.00	19.37	1000.0	120.000	101.0	V	83.0	13.7
54.586650	9.58	30.00	20.42	1000.0	120.000	179.0	Н	350.0	13.1
705.120000	23.25	36.00	12.75	1000.0	120.000	101.0	Н	105.0	21.7
747.258900	19.97	36.00	16.03	1000.0	120.000	101.0	Н	3.0	22.7
923.349000	21.43	36.00	14.57	1000.0	120.000	179.0	Н	350.0	24.3

11.4 Frequency error

Measurement:

The maximum detected field strength for the spurious.

Measurement parameters			
Detector:	Peak detector		
Resolution bandwidth:	10 Hz		
Video bandwidth:	≥ RBW		
Trace mode:	Single sweep or max. hold		
Used equipment:	See chapter 6.3 – A		
Measurement uncertainty:	See chapter 8		

Limit:

FCC & IC FCC: The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. (±1.356 kHz)

IC: ± 100 ppm

<u>Result:</u> Temperature variation

Frequency tolerance				
Measured frequency (MHz)	Frequency error (kHz)	Conditions	Result	
13.560162	0.16	-20 °C & 100% voltage	compliant	
13.560146	0.15	-10 °C & 100% voltage	compliant	
13.560112	0.11	0 °C & 100% voltage	compliant	
13.560058	0.06	+10 °C & 100% voltage	compliant	
13.560064	0.06	+20 °C & 100% voltage	compliant	
13.560059	0.06	+30 °C & 100% voltage	compliant	
13.560022	0.02	+40 °C & 100% voltage	compliant	
13.560000	0.00	+50 °C & 100% voltage	compliant	

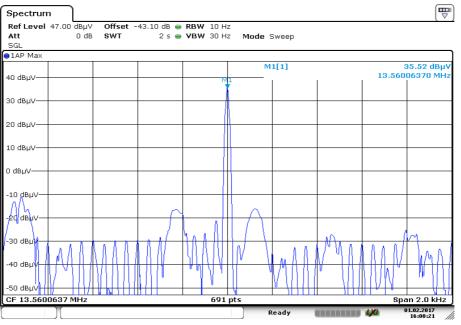
Result: Voltage variation

Frequency tolerance				
Measured frequency (MHz)	Frequency error (kHz)	Conditions	Result	
13.560064	0.06	+20 °C & 85% voltage	compliant	
13.560064	0.06	+20 °C & 100% voltage	compliant	
13.560064	0.06	+20 °C & 115% voltage	compliant	



Plots:

Plot 1:



Date:1.FEB.2017 16:00:22



12 Observations

No observations except those reported with the single test cases have been made.

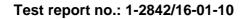
Annex A Document history

Version	Applied changes	Date of release
	Initial release	2017-02-23

Annex B Further information

<u>Glossary</u>

AVG	-	Average
DUT	-	
EMC	-	Electromagnetic Compatibility
EN	-	European Standard
EUT	-	Equipment under test
ETSI	-	European Telecommunications Standard Institute
FCC		
FCC ID		
HW	-	Hardware
IC	-	Industry Canada
Inv. No.	-	Inventory number
N/A	-	Not applicable
PP	-	Positive peak
QP	-	Quasi peak
S/N	-	Serial number
SW	-	Software
PMN	-	Product marketing name
HMN	-	Host marketing name
HVIN	-	Hardware version identification number
FVIN	-	Firmware version identification number
OBW		Occupied Bandwidth
OC		Operating Channel
OCW		Operating Channel Bandwidth
OOB		Out Of Band





Annex C Accreditation Certificate

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Note:

The current certificate including annex can be received on request.