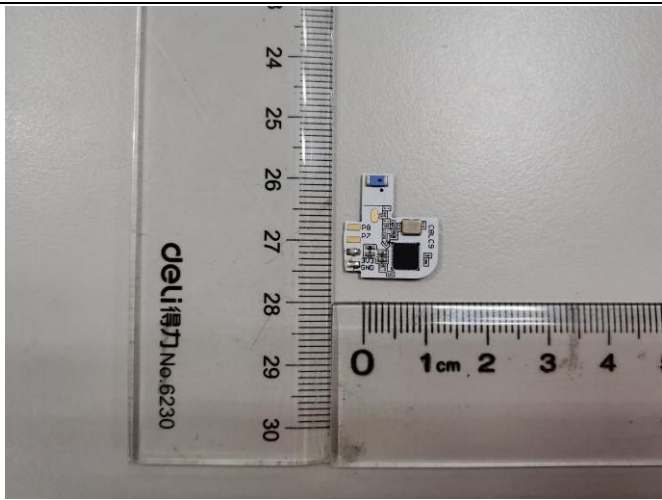


Prüfbericht-Nr.: Test report no.:	CN200U5L 003	Auftrags-Nr.: Order no.:	244283177	Seite 1 von 31 Page 1 of 31
Kunden-Referenz-Nr.: Client reference no.:	2062346	Auftragsdatum: Order date:	2020-12-01	
Auftraggeber: Client:	Hangzhou Tuya Information Technology Co., Ltd. 701 Room, 3 Bldg, More Centre, 87 Gudun Rd, Xihu District, Hangzhou, Zhejiang, P.R. China			
Prüfgegenstand: Test item:	WIFI+Bluetooth Module			
Bezeichnung / Typ-Nr.: Identification / Type no.:	CBLC9			
Auftrags-Inhalt: Order content:	Complete Test			
Prüfgrundlage: Test specification:	EN 300 328 V2.2.2:2019			
Wareneingangsdatum: Date of sample receipt:	2020-11-29			
Prüfmuster-Nr.: Test sample no.:	A002971736-003,004			
Prüfzeitraum: Testing period:	Refer to test report			
Ort der Prüfung: Place of testing:	Shenzhen LCS Compliance Testing Laboratory Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	Yanli Fan		genehmigt von: authorized by:	
Datum: Date:	2021-01-15		Ausstellungsdatum: Issue date:	2021-01-15
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

TEST SUMMARY

5.1.1 RF OUTPUT POWER

RESULT: PASS

5.1.2 POWER SPECTRAL DENSITY

RESULT: PASS

5.1.3 DUTY CYCLE, TX-SEQUENCE, TX-GAP

RESULT: N/A

5.1.4 MEDIUM UTILIZATION FACTOR

RESULT: N/A

5.1.5 ADAPTIVITY

RESULT: N/A

5.1.6 OCCUPIED CHANNEL BANDWIDTH

RESULT: PASS

5.1.7 TRANSMITTER UNWANTED EMISSIONS IN THE OOB DOMAIN

RESULT: PASS

5.1.8 TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

RESULT: PASS

5.2.1 RECEIVER SPURIOUS EMISSIONS

RESULT: PASS

5.2.2 RECEIVER BLOCKING

RESULT: PASS

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1. General Remarks

1.1 Complementary Materials

Null.

1.2 Test Specifications

The following standards were applied.

Table 1: Applied Standard and Test Levels

Radio
EN 300 328 V2.2.2:2019

2. Test Sites

2.1 Test Facilities

Shenzhen LCS Compliance Testing Laboratory Ltd.

1-2F, Building A&3F, Building C, Juji Industrial Park, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

The used test equipment is in accordance with CISPR 16-1 series standards for measurement of radio interference.

2.2 List of Test and Measurement Instruments

Table 2: List of Test and Measurement Equipment

Conducted Test

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
RF Control Unit	Tonscend	JS0806-2	188060107	2021-06-16
MXA Signal Analyzer	Agilent	N9020A	MY49100699	2021-06-16
MXA Signal Analyzer	Agilent	N9020A	MY59140060	2021-06-16
MXG Vector Signal Generator	Agilent	N5182A	MY49060403	2021-06-16
MXG Vector Signal Generator	Agilent	E4438C	US41461489	2021-06-16
Wideband Radio Communication Tester	R&S	CMW 500	103818	2021-06-22

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Transmitter Spurious Emissions and Receiver Spurious Emissions

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2023-04-04
Positioning Controller	MF	MF-7082	/	2021-06-21
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-07-25
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-06-19
EMI Test Receiver	R&S	ESR 7	101181	2021-06-21
RS SPECTRUM ANALYZER	R&S	FSP40	100503	2021-11-16
AMPLIFIER	QuieTek	QTK	CHM/0809065	2021-06-21
RF Cable-R03m	Jye Bao	RG142	CB021	2021-06-21
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2021-06-21

2.3 Measurement Uncertainty

Table 3: Emission Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 5 \%$
RF output power, conducted	$\pm 1.5 \text{ dB}$
Power Spectral Density, conducted	$\pm 3 \text{ dB}$
Unwanted Emissions, conducted	$\pm 3 \text{ dB}$
All emissions, radiated	$\pm 6 \text{ dB}$
Temperature	$\pm 5 \text{ }^{\circ}\text{C}$
Supply voltages	$\pm 3 \%$
Time	$\pm 5 \%$

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a WIFI+Bluetooth Module which supports Wi-Fi and Bluetooth Low Energy.

The aim of this report is to evaluate the RF characteristic of the Bluetooth (BLE) of the EUT.

For details refer to the User Manual and Circuit Diagram.

3.2 System Details

Table 4: Technical Specification of EUT

General Description of EUT	
Product Name:	WIFI+Bluetooth Module
Model No.:	CBLC9
Rated Voltage:	DC 3.3V
Operating Temperature:	-40~105 °C
Technical Specification of Bluetooth Low Energy	
Frequency Range:	2402 to 2480MHz
Modulation Type:	GFSK
Antenna Type:	Ceramic patch antenna
Antenna Gain:	1.2 dBi
Receiver Category:	2
Technical Specification of W-LAN	
Frequency Range:	2412 to 2472MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11n-HT40: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Antenna Type:	Ceramic patch antenna
Antenna Gain:	1.2 dBi
Receiver Category:	1

3.3 Independent Operation Modes

Table 5: Independent Operation Modes

Test Mode			Channel Number	Channel Frequency [MHz]
Tx	Rx	Normal		
TM1	TM4	TM7	0	2402
TM2	TM5	TM8	19	2440
TM3	TM6	TM9	39	2480

Note: The EUT was set into continuous transmitting or receiving mode in Tx or Rx testing.

3.4 Noise Suppressing Parts

Refer to schematics.

4. Test Set-up and Operation Modes

4.1 Test Methodology

Radio: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Immunity: The equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Physical Configuration for Testing

The EUT was designed to get into related working mode with the control of computer.
Notes:

For antenna conducted measurements, the antenna was replaced by a 50Ω antenna connector.

For antenna radiated measurements, the associated cables and computer were removed.

For more details, refer to section: Photographs of the Test Set-Up.

4.3 Test Operation and Test Software

Test Soft: WiFi Test Tool v1.6.0 release

Table 6: Power parameter value

Channel Frequency [MHz]	Power Parameter Value
2402	Auto
2442	Auto
2480	Auto

4.4 Special Accessories and Auxiliary Equipment

Null.

4.5 Countermeasures to achieve EMC Compliance

Null.

5. Test Results RADIO

5.1 Transmitter Parameters

5.1.1 RF output power

RESULT:
PASS

Date of testing	:	2020-12-14
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa
Test requirement	:	EN 300 328 V2.2.2:2019 , clause 4.3.2.2
Test procedure	:	EN 300 328 V2.2.2:2019 , clause 5.4.2.2
Normal test voltage	:	DC 3.3V
Low test temperature	:	-40°C
Normal test temperature	:	25°C
High test temperature	:	105°C
Test modes applied	:	TM1 to TM3

Table 7: RF output power

Temp. [°C]	Test Mode	Antenna Gain [dBi]	Ch. No.	Freq. [MHz]	RF Output Power [dBm]	E.I.R.P [dBm]	Limit [dBm]
-40	TM1	1.2	0	2402	2.30	3.50	20.00
	TM2		19	2440	1.65	2.85	20.00
	TM3		39	2480	0.17	1.37	20.00
25	TM1		0	2402	2.32	3.52	20.00
	TM2		19	2440	1.67	2.87	20.00
	TM3		39	2480	0.18	1.38	20.00
105	TM1		0	2402	2.31	3.51	20.00
	TM2		19	2440	1.64	2.84	20.00
	TM3		39	2480	0.16	1.36	20.00

Note:

 $E.I.R.P = P_{burst} + \text{Antenna Gain.}$
 P_{burst} : The highest burst power value measured in observant duration.

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5.1.2 Power Spectral Density**RESULT:****PASS**

Date of testing : 2020-12-14
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa
Test requirement : EN 300 328 V2.2.2:2019 , clause 4.3.2.3
Test procedure : EN 300 328 V2.2.2:2019 , clause 5.4.3.2
Normal test voltage : DC 3.3V
Test modes applied : TM1 to TM3

Table 8: Power spectral density

Test Mode	Ch. No.	Freq. [MHz]	Total PSD [dBm/MHz]	Limit [dBm/MHz]
TM1	0	2402	3.45	10.00
TM2	19	2440	2.80	10.00
TM3	39	2480	1.31	10.00

5.1.3 Duty Cycle, Tx-sequence, Tx-gap**RESULT:****N/A**

Test requirement : EN 300 328 V2.2.2:2019 , clause 4.3.2.4

Note:

These requirements apply to non-adaptive equipment or to adaptive equipment when operating in a non-adaptive mode.

These requirements do not apply for equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p.

Therefore, these measurements are not required.

5.1.4 Medium Utilization Factor

RESULT:**N/A**

Test requirement : EN 300 328 V2.2.2:2019 , clause 4.3.2.5

Note:

This requirement does not apply to adaptive equipment unless operating in a non-adaptive mode.

This requirement does not apply for equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p.

Therefore, assessment of the Medium Utilisation Factor is not required.

5.1.5 Adaptivity

RESULT:**N/A**

Test requirement : EN 300 328 V2.2.2:2019 , clause 4.3.2.6

Note:

This requirement does not apply to adaptive equipment unless operating in a non-adaptive mode.

This requirement does not apply for equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p.

Therefore, assessment of Adaptivity is not required.

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5.1.6 Occupied Channel Bandwidth**RESULT:****PASS**

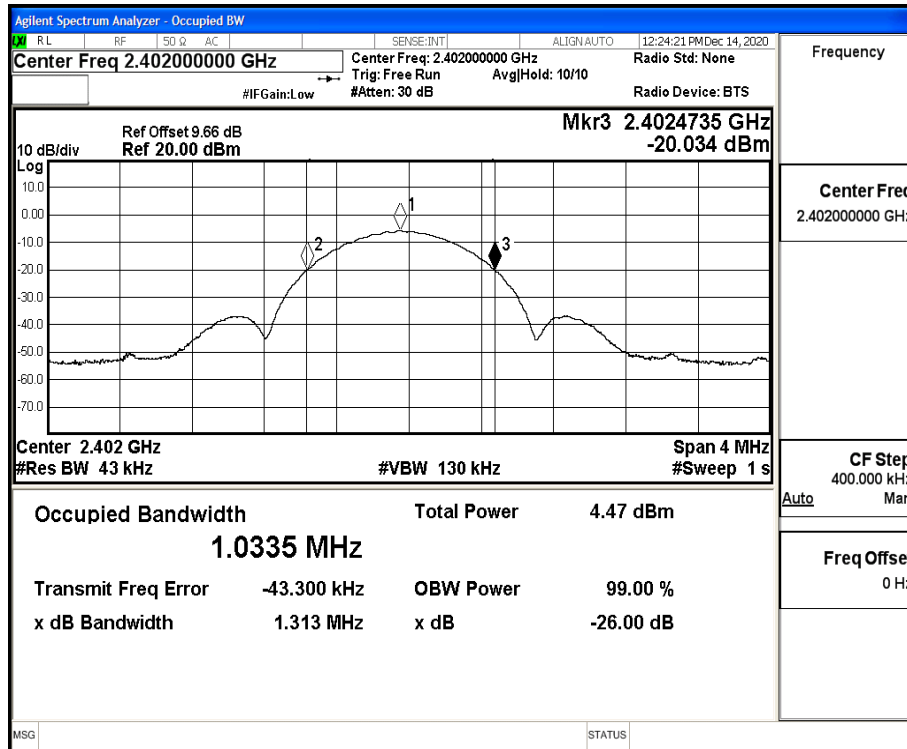
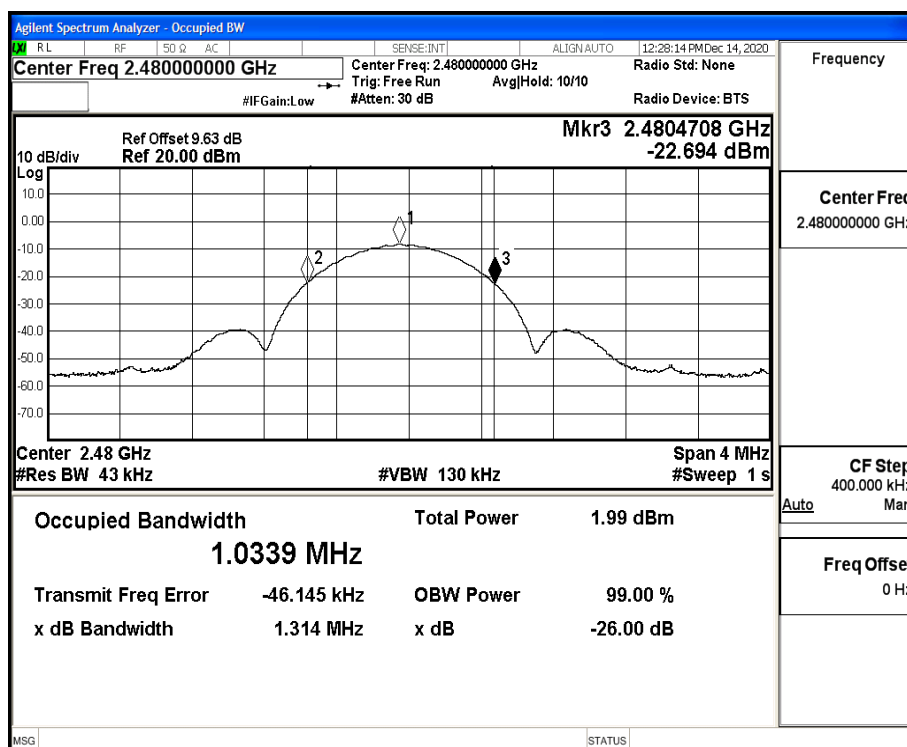
Date of testing : 2020-12-14
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa
Test requirement : EN 300 328 V2.2.2:2019 , clause 4.3.2.7
Test procedure : EN 300 328 V2.2.2:2019 , clause 5.4.7.2
Normal test voltage : DC 3.3V
Test modes applied : TM1, TM3

Table 9: Occupied channel bandwidth

Test Mode	Frequency [MHz]	99% Bandwidth [MHz]	Verdict
TM1	2402	1.0335	PASS
TM3	2480	1.0339	PASS

Note:

The Occupied Channel Bandwidth for each frequency shall fall completely within the band given in clause 1 '2,4 GHz to 2,4835 GHz'.

Figure 1: Occupied Channel Bandwidth, TM1

Figure 2: Occupied Channel Bandwidth, TM3


5.1.7 Transmitter unwanted emissions in the OOB domain

RESULT:
PASS

Date of testing : 2020-12-14
 Ambient temperature : 25°C
 Relative humidity : 54%
 Atmospheric pressure : 101kPa
 Test requirement : EN 300 328 V2.2.2:2019 , clause 4.3.2.8
 Test procedure : EN 300 328 V2.2.2:2019 , clause 5.4.8.2
 Normal test voltage : DC 3.3V
 Test modes applied : TM1, TM3

Table 10: Transmitter unwanted emissions in the OOB domain

Mode	Domain	Reading Values [dBm/MHz]	Gain [dBi]	Max measured Values [dBm/MHz]	Limit [dBm/MHz]
TM1	2400-2BW ~ 2400-BW	-33.94	1.2	-32.74	-20
	2400-BW ~ 2400	-31.63		-30.43	-10
TM3	2483.5 ~ 2483.5+BW	-37.49		-36.29	-10
	2483.5+BW ~ 2483.5+2BW	-39.00		-37.80	-20

Note:
Max measured Values = Reading Values + Antenna gain

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5.1.8 Transmitter unwanted emissions in the spurious domain**RESULT:****PASS**

Date of testing	: 2020-12-24
Ambient temperature	: 25°C
Relative humidity	: 52%
Atmospheric pressure	: 101kPa
Test requirement	: EN 300 328 V2.2.2:2019 , clause 4.3.2.9
Test procedure	: EN 300 328 V2.2.2:2019 , clause 5.4.9.2
Normal test voltage	: DC 3.3V
Test modes applied	: TM1, TM3

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Table 11: Transmitter unwanted emissions in the spurious domain

Mode	Freq. [MHz]	Reading Level [dBm]	Factor [dB]	Measure Level [dBm]	Limit [dBm]	Over Limit [dB]	Detector Type	Pol.
TM1	51.4807	-51.53	-28.39	-79.92	-54.00	-25.92	PK	H
	103.0800	-58.06	-30.25	-88.31	-54.00	-34.31	PK	
	204.9551	-59.85	-29.81	-89.66	-54.00	-35.66	PK	
	267.5454	-60.67	-28.01	-88.68	-36.00	-52.68	PK	
	603.5391	-57.50	-21.00	-78.50	-54.00	-24.50	PK	
	869.1302	-62.04	-19.21	-81.25	-36.00	-45.25	PK	
	1072.378	-53.20	-14.89	-68.09	-30.00	-38.09	PK	
	2203.762	-53.14	-8.10	-61.24	-30.00	-31.24	PK	
	2538.859	-53.32	-5.18	-58.50	-30.00	-28.50	PK	
	3639.545	-52.26	-8.90	-61.16	-30.00	-31.16	PK	
	4865.277	-53.36	-6.04	-59.40	-30.00	-29.40	PK	
	5872.370	-54.19	-4.65	-58.84	-30.00	-28.84	PK	
	6004.524	-23.30	-30.45	-53.75	-30.00	-23.75	PK	
	6563.069	-24.78	-30.26	-55.04	-30.00	-25.04	PK	
	7404.306	-25.03	-30.17	-55.20	-30.00	-25.20	PK	
	8422.922	-26.76	-28.91	-55.67	-30.00	-25.67	PK	
	10536.306	-28.64	-26.58	-55.22	-30.00	-25.22	PK	
	12177.028	-27.16	-26.75	-53.91	-30.00	-23.91	PK	
	55.2207	-51.20	-28.85	-80.05	-54.00	-26.05	PK	V
	95.4269	-58.50	-30.95	-89.45	-54.00	-35.45	PK	
	242.5252	-60.53	-28.59	-89.12	-36.00	-53.12	PK	
	444.8514	-61.67	-24.37	-86.04	-36.00	-50.04	PK	
	597.2234	-57.63	-21.07	-78.70	-54.00	-24.70	PK	
	955.4381	-62.94	-18.48	-81.42	-36.00	-45.42	PK	
	1064.720	-53.34	-14.88	-68.22	-30.00	-38.22	PK	
	2077.235	-54.55	-11.63	-66.18	-30.00	-36.18	PK	
	2598.691	-53.43	-5.12	-58.55	-30.00	-28.55	PK	
	3646.072	-51.91	-8.88	-60.79	-30.00	-30.79	PK	
	5254.944	-53.55	-5.47	-59.02	-30.00	-29.02	PK	
	5819.996	-54.85	-4.74	-59.59	-30.00	-29.59	PK	
	6095.731	-24.06	-30.42	-54.48	-30.00	-24.48	PK	
	6577.927	-25.09	-30.26	-55.35	-30.00	-25.35	PK	
	8296.895	-26.34	-29.31	-55.65	-30.00	-25.65	PK	
	8372.283	-26.76	-29.07	-55.83	-30.00	-25.83	PK	
	11378.342	-29.02	-26.42	-55.44	-30.00	-25.44	PK	
	11940.705	-29.25	-26.60	-55.85	-30.00	-25.85	PK	

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Mode	Freq. [MHz]	Reading Level [dBm]	Factor [dB]	Measure Level [dBm]	Limit [dBm]	Over Limit [dB]	Detector Type	Pol.
TM3	55.0274	-50.33	-28.82	-79.15	-54.00	-25.15	PK	H
	103.0800	-58.06	-30.25	-88.31	-54.00	-34.31	PK	
	251.1804	-61.01	-28.34	-89.35	-36.00	-53.35	PK	
	444.8514	-61.74	-24.37	-86.11	-36.00	-50.11	PK	
	595.1327	-56.74	-21.12	-77.86	-54.00	-23.86	PK	
	869.1302	-62.04	-19.21	-81.25	-36.00	-45.25	PK	
	1115.494	-52.32	-14.86	-67.18	-30.00	-37.18	PK	
	1428.407	-53.32	-13.78	-67.10	-30.00	-37.10	PK	
	2589.395	-52.81	-5.12	-57.93	-30.00	-27.93	PK	
	3607.084	-52.44	-8.93	-61.37	-30.00	-31.37	PK	
	4400.794	-53.29	-7.14	-60.43	-30.00	-30.43	PK	
	5830.433	-53.47	-4.72	-58.19	-30.00	-28.19	PK	
	6000.000	-56.38	2.33	-54.05	-30.00	-24.05	PK	
	6728.369	-25.01	-30.21	-55.22	-30.00	-25.22	PK	
	7528.116	-25.60	-30.19	-55.79	-30.00	-25.79	PK	
	9262.111	-28.40	-27.05	-55.45	-30.00	-25.45	PK	
	10528.367	-30.12	-26.58	-56.70	-30.00	-26.70	PK	
	11985.792	-28.83	-26.60	-55.43	-30.00	-25.43	PK	
	52.7600	-52.67	-28.54	-81.21	-54.00	-27.21	PK	V
	102.3596	-58.84	-30.21	-89.05	-54.00	-35.05	PK	
	267.5454	-61.68	-28.01	-89.69	-36.00	-53.69	PK	
	365.5390	-62.72	-25.76	-88.48	-36.00	-52.48	PK	
	590.9737	-57.24	-21.23	-78.47	-54.00	-24.47	PK	
	982.6200	-63.48	-18.32	-81.80	-36.00	-45.80	PK	
	1233.229	-52.36	-14.39	-66.75	-30.00	-36.75	PK	
	2598.691	-53.69	-5.12	-58.81	-30.00	-28.81	PK	
	3467.664	-52.52	-9.49	-62.01	-30.00	-32.01	PK	
	3646.072	-51.91	-8.88	-60.79	-30.00	-30.79	PK	
	5042.786	-53.39	-5.58	-58.97	-30.00	-28.97	PK	
	5882.902	-53.79	-4.63	-58.42	-30.00	-28.42	PK	
	6095.731	-24.06	-30.42	-54.48	-30.00	-24.48	PK	
	6558.124	-24.00	-30.27	-54.27	-30.00	-24.27	PK	
	7432.265	-25.66	-30.18	-55.84	-30.00	-25.84	PK	
	9276.085	-28.62	-27.05	-55.67	-30.00	-25.67	PK	
	11378.342	-29.02	-26.42	-55.44	-30.00	-25.44	PK	
	12241.448	-28.59	-26.80	-55.39	-30.00	-25.39	PK	

5.2 Receiver Parameters

5.2.1 Receiver Spurious Emissions

RESULT:**PASS**

Date of testing	: 2020-12-24
Ambient temperature	: 25°C
Relative humidity	: 52%
Atmospheric pressure	: 101kPa
Test requirement	: EN 300 328 V2.2.2:2019 , clause 4.3.2.10
Test procedure	: EN 300 328 V2.2.2:2019 , clause 5.4.10.2
Normal test voltage	: DC 3.3V
Test modes applied	: TM4, TM6

Table 12: Receiver Spurious Emissions

Mode	Freq. [MHz]	Reading Level [dBm]	Factor [dB]	Measure Level [dBm]	Limit [dBm]	Over Limit [dB]	Detector Type	Pol.
TM4	47.6584	-52.14	-28.19	-80.33	-57.00	-23.33	PK	H
	103.4421	-58.07	-30.26	-88.33	-57.00	-31.33	PK	
	213.7634	-59.68	-29.53	-89.21	-57.00	-32.21	PK	
	361.7138	-60.97	-25.85	-86.82	-57.00	-29.82	PK	
	625.0780	-58.86	-21.08	-79.94	-57.00	-22.94	PK	
	839.1818	-62.04	-19.61	-81.65	-57.00	-24.65	PK	
	1068.542	-52.57	-15.10	-67.67	-47.00	-20.67	PK	
	2321.299	-54.12	-7.48	-61.60	-47.00	-14.60	PK	
	2589.395	-53.53	-5.56	-59.09	-47.00	-12.09	PK	
	3646.072	-52.68	-8.96	-61.64	-47.00	-14.64	PK	
	5133.955	-52.64	-6.10	-58.74	-47.00	-11.74	PK	
	5665.659	-53.96	-5.49	-59.45	-47.00	-12.45	PK	
	6779.277	-23.86	-29.73	-53.59	-47.00	-6.59	PK	
	7130.442	-24.81	-29.42	-54.23	-47.00	-7.23	PK	
	8391.237	-27.16	-27.74	-54.90	-47.00	-7.90	PK	
	9290.079	-30.13	-24.89	-55.02	-47.00	-8.02	PK	
	10528.367	-31.84	-23.45	-55.29	-47.00	-8.29	PK	
	11542.471	-32.18	-23.20	-55.38	-47.00	-8.38	PK	V
	33.7986	-54.29	-30.21	-84.50	-57.00	-27.50	PK	
	45.8553	-51.32	-28.19	-79.51	-57.00	-22.51	PK	
	104.9032	-59.32	-30.34	-89.66	-57.00	-32.66	PK	
	266.6089	-60.60	-28.03	-88.63	-57.00	-31.63	PK	
	582.7424	-59.22	-21.46	-80.68	-57.00	-23.68	PK	
	893.8566	-63.21	-18.87	-82.08	-57.00	-25.08	PK	
	1115.494	-53.46	-15.09	-68.55	-47.00	-21.55	PK	
	1332.000	-54.15	-14.14	-68.29	-47.00	-21.29	PK	
	2267.854	-53.58	-7.85	-61.43	-47.00	-14.43	PK	
	3204.781	-52.58	-10.00	-62.58	-47.00	-15.58	PK	
	3792.665	-53.46	-8.64	-62.10	-47.00	-15.10	PK	
	4926.683	-53.94	-6.52	-60.46	-47.00	-13.46	PK	
	6950.023	-25.28	-29.49	-54.77	-47.00	-7.77	PK	
	9524.063	-30.63	-24.73	-55.36	-47.00	-8.36	PK	
	9646.891	-30.17	-24.65	-54.82	-47.00	-7.82	PK	
	10608.027	-32.67	-23.31	-55.98	-47.00	-8.98	PK	
	11386.922	-31.87	-23.03	-54.90	-47.00	-7.90	PK	
	12389.978	-31.17	-24.41	-55.58	-47.00	-8.58	PK	

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Mode	Freq. [MHz]	Reading Level [dBm]	Factor [dB]	Measure Level [dBm]	Limit [dBm]	Over Limit [dB]	Detector Type	Pol.
TM6	34.8822	-54.80	-30.17	-84.97	-57.00	-27.97	PK	H
	53.3179	-51.09	-28.61	-79.70	-57.00	-22.70	PK	
	102.7192	-57.84	-30.23	-88.07	-57.00	-31.07	PK	
	457.5073	-61.19	-24.22	-85.41	-57.00	-28.41	PK	
	633.9073	-59.44	-21.10	-80.54	-57.00	-23.54	PK	
	968.9337	-63.49	-18.41	-81.90	-57.00	-24.90	PK	
	1068.542	-53.03	-15.10	-68.13	-47.00	-21.13	PK	
	2207.714	-52.82	-8.54	-61.36	-47.00	-14.36	PK	
	2584.760	-53.45	-5.58	-59.03	-47.00	-12.03	PK	
	4016.478	-53.78	-7.87	-61.65	-47.00	-14.65	PK	
	4635.509	-53.16	-6.86	-60.02	-47.00	-13.02	PK	
	5809.577	-54.73	-5.20	-59.93	-47.00	-12.93	PK	
	6558.124	-23.97	-30.06	-54.03	-47.00	-7.03	PK	
	6728.369	-24.84	-29.81	-54.65	-47.00	-7.65	PK	
	7359.792	-25.63	-29.43	-55.06	-47.00	-8.06	PK	
	8454.727	-27.20	-27.47	-54.67	-47.00	-7.67	PK	
	9367.428	-29.99	-24.84	-54.83	-47.00	-7.83	PK	
	11369.769	-33.02	-23.01	-56.03	-47.00	-9.03	PK	
	40.1347	-54.74	-28.96	-83.70	-57.00	-26.70	PK	V
	47.1598	-50.75	-28.19	-78.94	-57.00	-21.94	PK	
	101.6443	-58.17	-30.18	-88.35	-57.00	-31.35	PK	
	247.6818	-60.07	-28.43	-88.50	-57.00	-31.50	PK	
	599.3212	-59.91	-21.00	-80.91	-57.00	-23.91	PK	
	996.4995	-63.29	-18.25	-81.54	-57.00	-24.54	PK	
	1062.814	-53.22	-15.11	-68.33	-47.00	-21.33	PK	
	2317.144	-53.76	-7.48	-61.24	-47.00	-14.24	PK	
	2594.039	-54.08	-5.56	-59.64	-47.00	-12.64	PK	
	3524.036	-51.74	-9.33	-61.07	-47.00	-14.07	PK	
	5236.146	-52.16	-6.03	-58.19	-47.00	-11.19	PK	
	5645.392	-53.58	-5.54	-59.12	-47.00	-12.12	PK	
	6728.369	-24.84	-29.81	-54.65	-47.00	-7.65	PK	
	7178.979	-25.27	-29.42	-54.69	-47.00	-7.69	PK	
	8391.237	-27.16	-27.74	-54.90	-47.00	-7.90	PK	
	9096.061	-29.80	-25.03	-54.83	-47.00	-7.83	PK	
	10528.367	-31.84	-23.45	-55.29	-47.00	-8.29	PK	
	12250.679	-30.84	-24.16	-55.00	-47.00	-8.00	PK	

5.2.2 Receiver Blocking

RESULT:
PASS

Date of testing : 2021-01-13
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa
 Test requirement : EN 300 328 V2.2.2:2019 , clause 4.3.2.11
 Test procedure : EN 300 328 V2.2.2:2019 , clause 5.4.11.2
 Normal test voltage : DC 3.3V
 Test modes applied : TM7, TM9

Table 13: Receiver Blocking

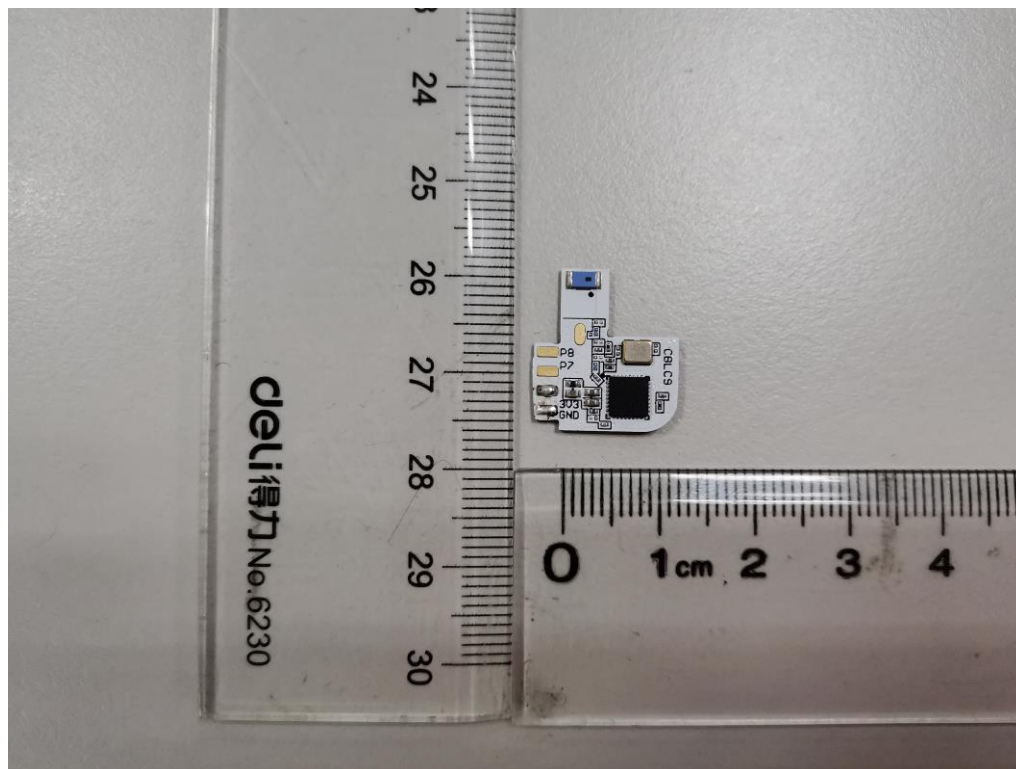
Test Mode	Wanted signal mean power from companion device [dBm]	Blocking signal frequency [MHz]	Blocking signal power [dBm]		PER [%]	Limit [%]	Verdict
			Actual Test Value	Essential Requirement			
TM7	-67.66	2380	-30.8	-32.8	3.72	10	Pass
		2504	-29.8	-32.8	3.30	10	Pass
		2300	-28.8	-32.8	3.64	10	Pass
		2584	-27.8	-32.8	5.36	10	Pass
TM9	-67.66	2380	-29.8	-32.8	5.49	10	Pass
		2504	-26.8	-32.8	4.21	10	Pass
		2300	-26.8	-32.8	3.65	10	Pass
		2584	-24.8	-32.8	3.21	10	Pass

Note:

1. The level of Wanted signal mean power from companion device and Blocking signal power has to be corrected for the (in-band) antenna assembly gain.
2. The setting of Blocking signal power is stricter than the requirement in standard.

6. Photographs of the Sample and Test Setup

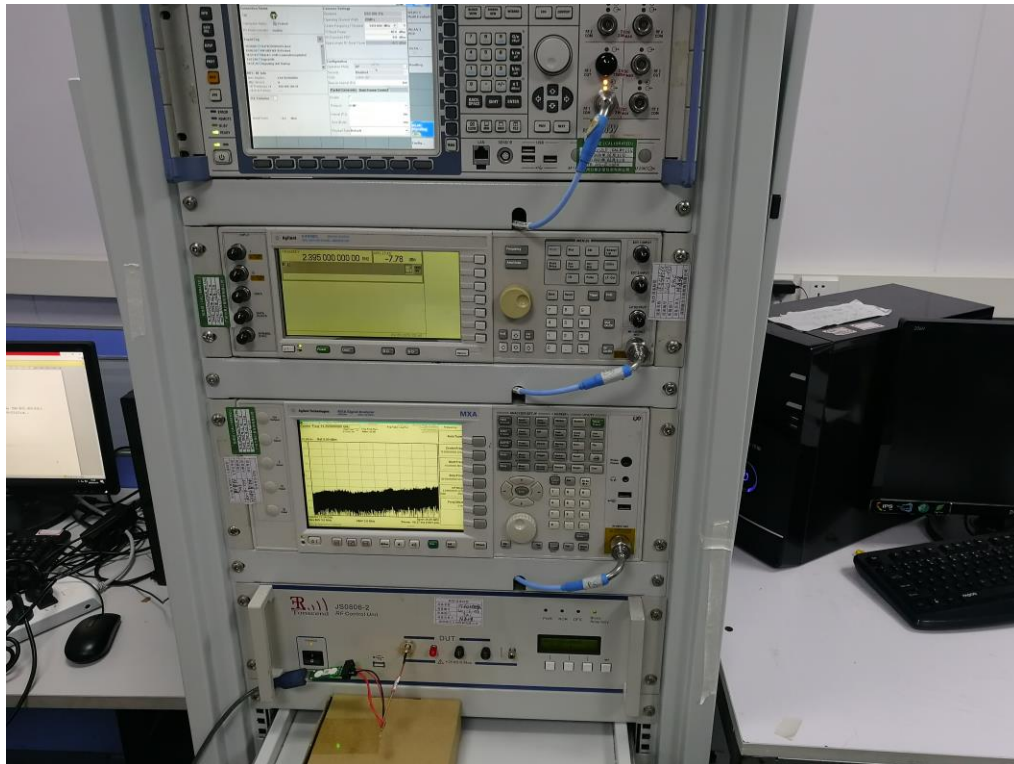
Photograph 1: EUT Photo



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Photograph 2: Set-up for Conducted Test at Antenna Port



Photograph 3: Set-up for Radiated Spurious Emission, below 1GHz**Photograph 4: Set-up for Radiated Spurious Emission, above 1GHz**

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