Test Report

Verified code: 324252

Report No.: E20211217696105-7

Customer:	BYD Auto Industry Company Limited
Address:	No. 3001, 3007, Hengping Road, Pingshan, Shenzhen, P. R. China
Sample Name:	DiLink
Sample Model:	DiLink 3.0F
Receive Sample Date:	Feb.10,2022
Test Date:	Apr.08,2022 ~ May.10,2022
Reference Document:	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part 22 Subpart H FCC CFR Title 47 Part 24 Subpart E FCC CFR Title 47 Part 27 Subpart L
Test Result:	Pass

Prepared by: Yang Zhaoyun Reviewed by: Zhao Zetian Approved by: Xiao Liang

GUANGZHOU GRG METROLOGY & TEST CO., LTD

Issued Date: 2022-06-07

Statement

1. The report is invalid without "special seal for inspection and testing"; some copies are invalid; The report is invalid if it is altered or missing; The report is invalid without the signature of the person who prepared, reviewed and approved it.

2. The sample information is provided by the client and responsible for its authenticity; The content of the report is only valid for the samples sent this time.

3. When there are reports in both Chinese and English, the Chinese version will prevail when the language problems are inconsistent.

4. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.

5. Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E20211217696105-7	Original Issue	2022-05-11

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1. TEST RESULT SUMMARY

1.1 TEST STANDARDS

No.	Identity	Document Title
1	FCC CFR Title 47 Part 2 Section 2.1047, 21049	Frequency Allocations And Radio Treaty Mattres; General Rules And Regulations
2	FCC CFR Title 47 Part 22 Subpart H	Cellular Radiotelephone Service
3	FCC CFR Title 47 Part 24 Subpart E	Broadband PCS
4	FCC CFR Title 47 Part 27 Subpart L	1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 2110-2155 MHz, 2155-2180 MHz, 2180-2200 MHz Bands

1.2 TEST RESULT

GSM850 & UMTS Band 5			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤7 W	PASS
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §22.917(b)(1)	Refer to section 9.1	PASS
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	≤-13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	≤-13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §22.355	≤ ±2.5ppm.	PASS

Remark: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.

GSM1900 & UMTS Band 2			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	PASS
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §24.238(a)(b)	Refer to section 9.1	PASS
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)(b)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §24.235	No limit	PASS

Remark: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.

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UMTS Band 4			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤1 W	PASS
Peak-Average Ratio	§22.913(d)(5)	Limit≤13 dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(h)(1) §27.53(h)(3)(i)	Refer to section 9.1	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)(1)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(h)(1)	≤ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	PASS

Remark: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.

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2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name:	BYD Auto Industry Company Limited
Address:	No.3001,3007,HengPing Road, Pingshan, Shenzhen,P.R.China

2.2 MANUFACTURER

Name:	BYD Auto Industry Company Limited
Address:	No.3001,3007,HengPing Road, Pingshan, Shenzhen,P.R.China

2.3 FACTORY

Name:	Huizhou BYD Electronics Co., Ltd.
Address:	Xiangshui River, Economic Development Zone, Daya Bay, Huizhou, Guangdong, P. R. China

2.4 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment:	DiLink
Model No.:	DiLink 3.0F
Trade Name:	BYD
Brand Name:	BYD
Adding Model	/
FCC ID:	SD4-DILINK6125F
Power supply:	DC 12V
Hardware Version:	DiLink HW 6125F
Software Version:	DiLink SW 4.0F
Antenna Gain:	GSM850: -0.63dBi GSM1900: -2.95dBi UMTS Band 2: -2.95dBi UMTS Band 4: -1dBi UMTS Band 5: -0.63dBi
Power Class:	GSM850: 4 GSM1900: 1 UMTS: 3
Frequency range:	GSM850: Tx 824MHz~849MHz, Rx 869MHz ~ 894 MHz GSM1900: Tx 1850MHz~1910MHz, Rx 1930MHz ~ 1990 MHz UMTS Band 2: Tx 1850MHz~1910MHz, Rx 1930MHz ~ 1990 MHz UMTS Band 4: Tx 1710MHz~1755MHz, Rx 2110MHz ~ 2155 MHz UMTS Band 5: Tx 824MHz~849MHz, Rx 869MHz ~ 894 MHz
Bandwidth:	GSM850: 0.2MHz GSM1900: 0.2MHz UMTS Band 2: 5MHz UMTS Band 4: 5MHz UMTS Band 5: 5MHz

Modulation:	GSM850: GMSK,8PSK GSM1900: GMSK,8PSK UMTS Band 2: QPSK UMTS Band 4: QPSK UMTS Band 5: QPSK
Sample No.:	E20211217696105-0006; E20211217696105-0004
IMEI:	E20211217696105-0006:869845042511863; E20211217696105-0004:869845042513810;
Temperature Range:	-30℃~70℃
Voltage Range	9V~16V
Sample Submitting Way :	■Provided by customer □Sampling
Note:	/

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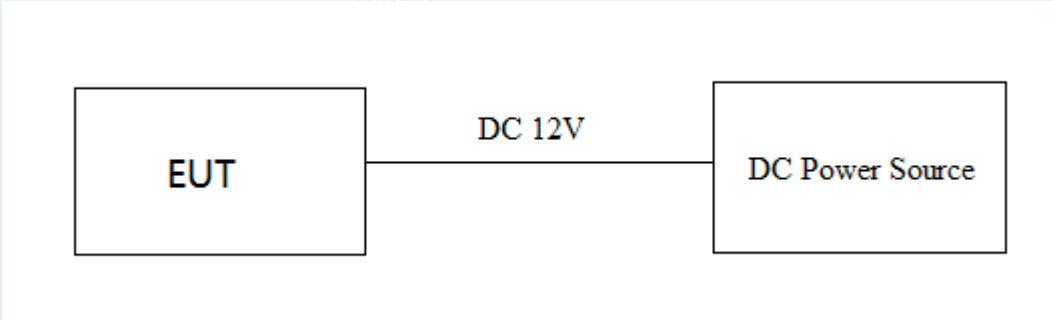
2.5 CONFIGURATION OF SYSTEM UNDER TEST



2.6 DESIGNATION OF EMISSION

Test Mode	Emission Designator
GSM850(GSM)	245KGXW
GSM850(GPRS)	247KGXW
GSM850(EDGE)	245KG7W
GSM1900(GSM)	243KGXW
GSM1900(GPRS)	247KGXW
GSM1900(EDGE)	246KG7W
WCDMA Band II	4M13F9W
WCDMA Band IV	4M14F9W
WCDMA Band V	4M14F9W

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3. LABORATORY AND ACCREDITATIONS AND MEASUREMENT UNCERTAINTY

3.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of Guangzhou GRG Metrology & Test Co., Ltd.

Add.:	No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District Shenzhen, 518110, People's Republic of China.
P.C.:	518110
Tel :	0755-61180008
Fax:	0755-61180008

3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	A2LA(Certificate #2861.01)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	ISED (Company Number: 24897, CAB identifier:CN0069)
USA	FCC (Registration Number: 759402, Designation Number:CN1198)

Copies of granted accreditation certificates are available for downloading from our web site, http://www.grgtest.com

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3.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement		Frequency	Uncertainty
Radiated Emission	Horizontal	30MHz～1000MHz	3.7dB
		1GHz～18GHz	4.5dB
		18GHz~40GHz	4.3dB
	Vertical	30MHz～1000MHz	3.7dB
		1GHz～18GHz	4.5dB
		18GHz~40GHz	4.3dB
	Coaxial	9kHz～30MHz	4.5dB
	Coplanar	9kHz～30MHz	4.5dB

Measurement	Uncertainty
RF frequency	6.0×10^{-6}
RF power conducted	0.8dB
Occupied channel bandwidth	0.4dB
Unwanted emission, conducted	0.7dB
Humidity	6%
Temperature	2℃

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of *k*=2.

4. LIST OF USED TEST EQUIPMENT AT GRGT

Conduted System :

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Keysight	N9010B	MY60680122	2023-04-06
Wideband radio Communication Tester	R&S	CMW500	144611-nc	2022-06-10
Temperature& humidity chamber	HOSON	HS01060SDF	201013401	2022-09-02
RF switch box	Tonscend	JS0806-1	20D8060250	/
Test SW	Tonscend	JS1120	/	/
Dc Source	LW	PS-305DM	180704473	2023-03-30

RSE system:

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Keysight	N9010B	MY60680122	2023-04-06
Loop Antenna	TESEQ	HLA6121	52599	2023-04-02
Bi-log Antenna	Schwarzbeck	VULB9163	01279	2023-04-24
Horn Antenna	Schwarzbeck	BBHA9120D (1201)	02143	2022-10-22
Horn Antenna	Schwarzbeck	BBHA9170	BBHA 9170-497	2022-10-16
Amplifier	tonscend	TAP9E6343	AP20E806065	2022-06-03
Amplifier	tonscend	TAP01018048	AP20E8060075	2023-05-05
Amplifier	tonscend	TAP184050	AP20E806070	2023-05-05
Wideband radio Communication Tester	R&S	CMW500	144611-nC	2022-06-10
Test S/W	tonscend	JS36-RSE/2.5.1.5		
Dc Source	LW	PS-305DM	180704473	2023-03-30

5. EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA

5.1 LIMIT

According to FCC section22.913 (a)(5) the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.
According to FCC section24.232 (c) the mobile and portable stations are limited to 2 watts EIRP.
According to FCC section27.50 (d) (4) mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

5.2 TEST PROCEDURES

Measurement Procedure: FCC KDB 971168 D01 V03r01

1. Connect the test system to the UE antenna connector.
2. A call is set up according to the Generic call setup procedure.
3. Set and send continuously up power control commands to the UE, until the UE output power shall be maximum level.
4. Read the conducted power in the base station.

Remark:

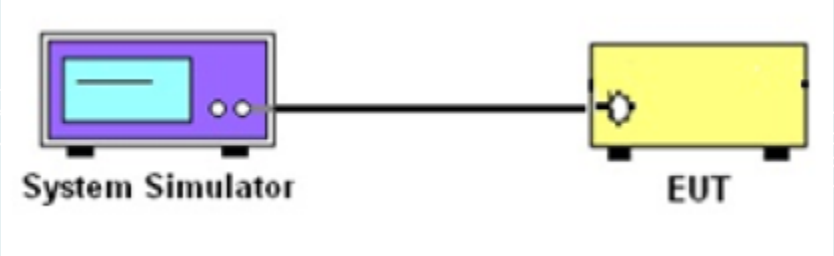
a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

EIRP [dBm] = Conducted output power [dBm] + Gain [dBi]

ERP [dBm] = Conducted output power [dBm] +Gain [dBi]-2.15dB

P [dBm]=10lg(p/1mw)

5.3 TEST SETUP



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5.4 TEST RESULTS

Effective Radiated Power

GSM

EUT Name	DiLink	Model	DiLink 3.0F
Sample No.	E20211217696105-0006	Test Mode	GSM
Power supply	DC 12V	Environmental Conditions	Temp:23.1℃;Humi:47%RH
Test Date	2022-04-08 to 2022-04-11	Test Site	/
Tested By	Zhang Shuangshuang	Reviewed by	Zhao Zetian

Band	Channel	Power(dBm)	ERP/EIRP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.73	29.95	≤38.45	PASS
GSM850	190	32.92	30.14	≤38.45	PASS
GSM850	251	32.86	30.08	≤38.45	PASS
GSM1900	512	29.54	26.59	≤33	PASS
GSM1900	661	29.30	26.35	≤33	PASS
GSM1900	810	29.30	26.35	≤33	PASS

Band	Channel	Slot	Power(dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
GPRS850	128	1	32.63	29.85	≤38.45	PASS
GPRS850	128	2	32.43	29.65	≤38.45	PASS
GPRS850	128	3	32.17	29.39	≤38.45	PASS
GPRS850	128	4	31.95	29.17	≤38.45	PASS
GPRS850	190	1	32.69	29.91	≤38.45	PASS
GPRS850	190	2	32.54	29.76	≤38.45	PASS
GPRS850	190	3	32.33	29.55	≤38.45	PASS
GPRS850	190	4	32.10	29.32	≤38.45	PASS
GPRS850	251	1	32.60	29.82	≤38.45	PASS
GPRS850	251	2	32.46	29.68	≤38.45	PASS
GPRS850	251	3	32.25	29.47	≤38.45	PASS
GPRS850	251	4	32.02	29.24	≤38.45	PASS
GPRS1900	512	1	29.54	26.59	≤33	PASS
GPRS1900	512	2	29.41	26.46	≤33	PASS
GPRS1900	512	3	29.25	26.30	≤33	PASS
GPRS1900	512	4	29.07	26.12	≤33	PASS
GPRS1900	661	1	29.22	26.27	≤33	PASS
GPRS1900	661	2	29.12	26.17	≤33	PASS
GPRS1900	661	3	28.96	26.01	≤33	PASS
GPRS1900	661	4	28.77	25.82	≤33	PASS
GPRS1900	810	1	29.21	26.26	≤33	PASS
GPRS1900	810	2	29.10	26.15	≤33	PASS
GPRS1900	810	3	28.92	25.97	≤33	PASS
GPRS1900	810	4	28.71	25.76	≤33	PASS

Band	Channel	Slot	Power(dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.96	24.18	≤38.45	PASS
EGPRS850	128	2	26.78	24.00	≤38.45	PASS
EGPRS850	128	3	26.64	23.86	≤38.45	PASS
EGPRS850	128	4	26.50	23.72	≤38.45	PASS
EGPRS850	190	1	26.92	24.14	≤38.45	PASS
EGPRS850	190	2	26.79	24.01	≤38.45	PASS
EGPRS850	190	3	26.68	23.90	≤38.45	PASS
EGPRS850	190	4	26.54	23.76	≤38.45	PASS
EGPRS850	251	1	26.61	23.83	≤38.45	PASS
EGPRS850	251	2	26.53	23.75	≤38.45	PASS
EGPRS850	251	3	26.38	23.60	≤38.45	PASS
EGPRS850	251	4	26.23	23.45	≤38.45	PASS
EGPRS1900	512	1	25.65	22.70	≤33	PASS
EGPRS1900	512	2	25.44	22.49	≤33	PASS
EGPRS1900	512	3	25.34	22.39	≤33	PASS
EGPRS1900	512	4	25.11	22.16	≤33	PASS
EGPRS1900	661	1	25.14	22.19	≤33	PASS
EGPRS1900	661	2	25.00	22.05	≤33	PASS
EGPRS1900	661	3	24.81	21.86	≤33	PASS
EGPRS1900	661	4	24.62	21.67	≤33	PASS
EGPRS1900	810	1	25.35	22.40	≤33	PASS
EGPRS1900	810	2	25.25	22.30	≤33	PASS
EGPRS1900	810	3	25.04	22.09	≤33	PASS
EGPRS1900	810	4	24.80	21.85	≤33	PASS

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WCDMA

EUT Name	DiLink	Model	DiLink 3.0F
Sample No.	E20211217696105-0006	Test Mode	WCDMA
Power supply	DC 12V	Environmental Conditions	Temp:22.8℃;Humi:45%RH
Test Date	2022-04-11	Test Site	/
Tested By	Zhang Shuangshuang	Reviewed by	Zhao Zetian

Note: The measured power of WCDMA is greater than that of HSDPA and HSUPA, Therefore, all the test items are tested in WCDMA mode.

Note: Since the output power of HSDPA and HSUPA subtest 1 is the largest, and other subtests have power backoff, only the test data of Subtest 1 is attached in the table.

WCDMA

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band2	9262	23.41	20.46	≤33	PASS
Band2	9400	23.29	20.34	≤33	PASS
Band2	9538	23.23	20.28	≤33	PASS
Band4	1312	23.48	22.48	≤30	PASS
Band4	1413	23.66	22.66	≤30	PASS
Band4	1513	23.67	22.67	≤30	PASS
Band5	4132	23.62	20.84	≤38.45	PASS
Band5	4182	23.66	20.88	≤38.45	PASS
Band5	4233	23.66	20.88	≤38.45	PASS

HSDPA

Band	Channel	SubTest	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band2	9262	1	22.38	19.43	≤33	PASS
Band2	9262	2	21.91	18.96	≤33	PASS
Band2	9262	3	21.92	18.97	≤33	PASS
Band2	9262	4	21.91	18.96	≤33	PASS
Band2	9400	1	22.28	19.33	≤33	PASS
Band2	9400	2	21.81	18.86	≤33	PASS
Band2	9400	3	21.81	18.86	≤33	PASS
Band2	9400	4	21.79	18.84	≤33	PASS
Band2	9538	1	22.22	19.27	≤33	PASS
Band2	9538	2	21.70	18.75	≤33	PASS
Band2	9538	3	21.69	18.74	≤33	PASS
Band2	9538	4	21.74	18.79	≤33	PASS
Band4	1312	1	22.48	21.48	≤30	PASS
Band4	1312	2	22.03	21.03	≤30	PASS
Band4	1312	3	22.02	21.02	≤30	PASS
Band4	1312	4	22.00	21.00	≤30	PASS
Band4	1413	1	22.68	21.68	≤30	PASS
Band4	1413	2	22.20	21.20	≤30	PASS
Band4	1413	3	22.20	21.20	≤30	PASS
Band4	1413	4	22.21	21.21	≤30	PASS
Band4	1513	1	22.67	21.67	≤30	PASS
Band4	1513	2	22.18	21.18	≤30	PASS
Band4	1513	3	22.18	21.18	≤30	PASS
Band4	1513	4	22.18	21.18	≤30	PASS
Band5	4132	1	22.61	19.83	≤38.45	PASS
Band5	4132	2	22.14	19.36	≤38.45	PASS
Band5	4132	3	22.14	19.36	≤38.45	PASS
Band5	4132	4	22.14	19.36	≤38.45	PASS
Band5	4182	1	22.67	19.89	≤38.45	PASS
Band5	4182	2	22.18	19.40	≤38.45	PASS

Band5	4182	3	22.20	19.42	≤38.45	PASS
Band5	4182	4	22.18	19.40	≤38.45	PASS
Band5	4233	1	22.67	19.89	≤38.45	PASS
Band5	4233	2	22.22	19.44	≤38.45	PASS
Band5	4233	3	22.21	19.43	≤38.45	PASS
Band5	4233	4	22.20	19.42	≤38.45	PASS

HSUPA

Band	Channel	SubTest	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band2	9262	1	22.36	19.41	≤33	PASS
Band2	9262	2	20.91	17.96	≤33	PASS
Band2	9262	3	21.48	18.53	≤33	PASS
Band2	9262	4	20.30	17.35	≤33	PASS
Band2	9262	5	22.36	19.41	≤33	PASS
Band2	9400	1	22.22	19.27	≤33	PASS
Band2	9400	2	20.79	17.84	≤33	PASS
Band2	9400	3	21.31	18.36	≤33	PASS
Band2	9400	4	20.17	17.22	≤33	PASS
Band2	9400	5	22.33	19.38	≤33	PASS
Band2	9538	1	22.11	19.16	≤33	PASS
Band2	9538	2	20.65	17.70	≤33	PASS
Band2	9538	3	21.30	18.35	≤33	PASS
Band2	9538	4	20.13	17.18	≤33	PASS
Band2	9538	5	22.18	19.23	≤33	PASS
Band4	1312	1	22.40	21.40	≤30	PASS
Band4	1312	2	21.09	20.09	≤30	PASS
Band4	1312	3	21.56	20.56	≤30	PASS
Band4	1312	4	20.50	19.50	≤30	PASS
Band4	1312	5	22.47	21.47	≤30	PASS
Band4	1413	1	22.60	21.60	≤30	PASS
Band4	1413	2	21.14	20.14	≤30	PASS
Band4	1413	3	21.70	20.70	≤30	PASS
Band4	1413	4	20.56	19.56	≤30	PASS
Band4	1413	5	22.71	21.71	≤30	PASS
Band4	1513	1	22.62	21.62	≤30	PASS
Band4	1513	2	21.04	20.04	≤30	PASS
Band4	1513	3	21.73	20.73	≤30	PASS
Band4	1513	4	20.59	19.59	≤30	PASS
Band4	1513	5	22.63	21.63	≤30	PASS
Band5	4132	1	22.54	19.76	≤38.45	PASS
Band5	4132	2	21.09	18.31	≤38.45	PASS
Band5	4132	3	21.60	18.82	≤38.45	PASS
Band5	4132	4	20.51	17.73	≤38.45	PASS
Band5	4132	5	22.62	19.84	≤38.45	PASS
Band5	4182	1	22.57	19.79	≤38.45	PASS
Band5	4182	2	21.21	18.43	≤38.45	PASS
Band5	4182	3	21.66	18.88	≤38.45	PASS
Band5	4182	4	20.61	17.83	≤38.45	PASS
Band5	4182	5	22.65	19.87	≤38.45	PASS
Band5	4233	1	22.58	19.80	≤38.45	PASS
Band5	4233	2	21.17	18.39	≤38.45	PASS
Band5	4233	3	21.70	18.92	≤38.45	PASS
Band5	4233	4	20.56	17.78	≤38.45	PASS
Band5	4233	5	22.63	19.85	≤38.45	PASS

6. PEAK-TO-AVERAGE RATIO

6.1 LIMIT

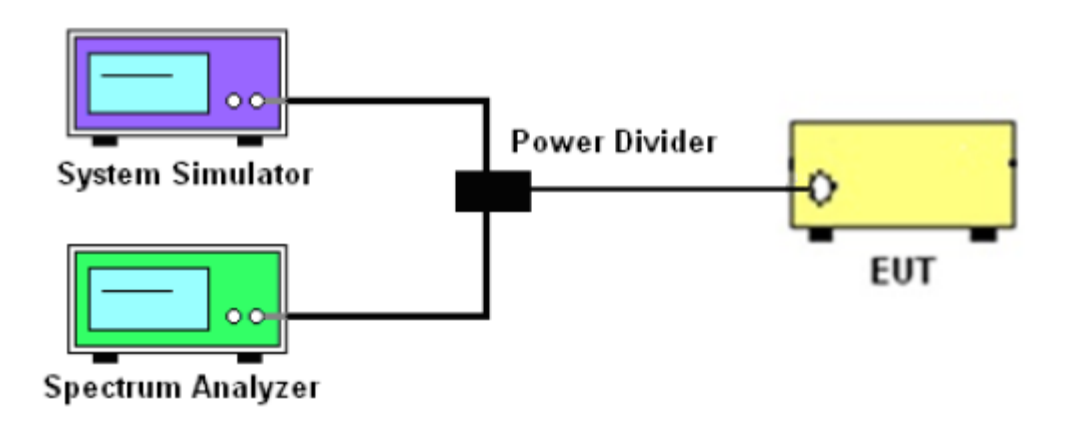
According to FCC section 22.913(d), 24.232(d), 27.50 (d)(5), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

6.2 TEST PROCEDURES

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.1
A peak to average ratio measurement is performed at the conducted port of the EUT. For WWAN signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Settings
1.The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW>Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

6.3 TEST SETUP



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6.4 TEST RESULTS

GSM

EUT Name	DiLink	Model	DiLink 3.0F
Sample No.	E20211217696105-0006	Test Mode	GSM
Power supply	DC 12V	Environmental Conditions	Temp:22.5℃;Humi:45%RH
Test Date	2022-04-08	Test Site	/
Tested By	Zhang Shuangshuang	Reviewed by	Zhao Zetian

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	2.81	≤13	PASS
GSM850	190	2.81	≤13	PASS
GSM850	251	2.82	≤13	PASS
GPRS850	128	2.82	≤13	PASS
GPRS850	190	2.81	≤13	PASS
GPRS850	251	2.81	≤13	PASS
EGPRS850	128	5.82	≤13	PASS
EGPRS850	190	5.85	≤13	PASS
EGPRS850	251	5.86	≤13	PASS
GSM1900	512	2.93	≤13	PASS
GSM1900	661	2.96	≤13	PASS
GSM1900	810	2.99	≤13	PASS
GPRS1900	512	2.93	≤13	PASS
GPRS1900	661	2.96	≤13	PASS
GPRS1900	810	2.98	≤13	PASS
EGPRS1900	512	5.96	≤13	PASS
EGPRS1900	661	5.96	≤13	PASS
EGPRS1900	810	5.94	≤13	PASS

WCDMA

EUT Name	DiLink	Model	DiLink 3.0F
Sample No.	E20211217696105-0006	Test Mode	WCDMA
Power supply	DC 12V	Environmental Conditions	Temp:22.6℃;Humi:44%RH
Test Date	2022-04-11	Test Site	/
Tested By	Zhang Shuangshuang	Reviewed by	Zhao Zetian

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	3.27	≤13	PASS
Band2	9400	3.24	≤13	PASS
Band2	9538	3.20	≤13	PASS
Band4	1312	3.23	≤13	PASS
Band4	1413	3.18	≤13	PASS
Band4	1513	3.30	≤13	PASS
Band5	4132	2.92	≤13	PASS
Band5	4182	2.95	≤13	PASS
Band5	4233	2.86	≤13	PASS

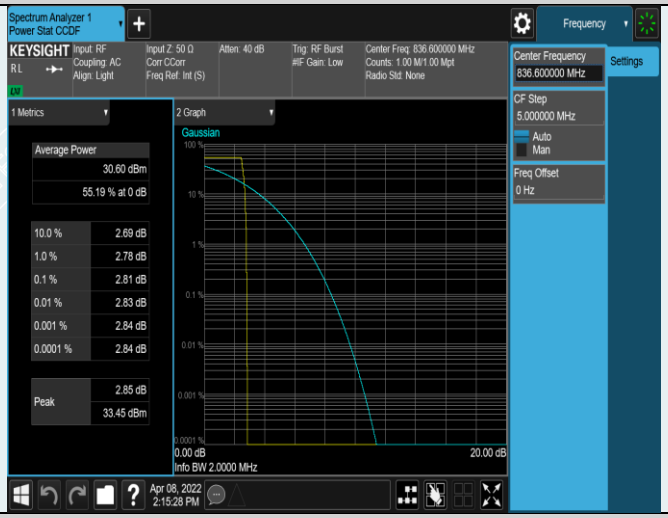
GSM

GSM850-128

GSM850-190

GSM850-251

GPRS850-128



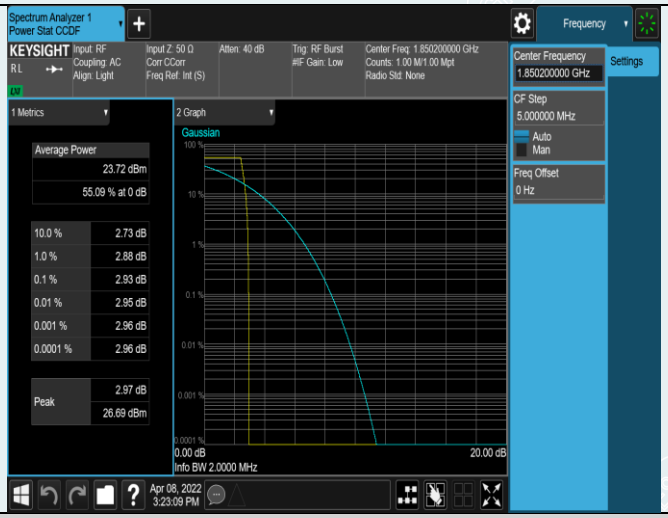
GPRS850-190

GPRS850-251

EGPRS850-128

EGPRS850-190

EGPRS850-251



GSM1900-512

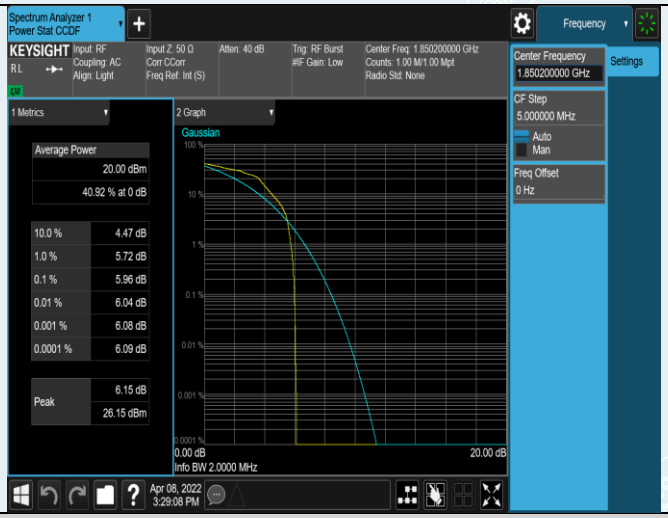
GSM1900-661

GSM1900-810

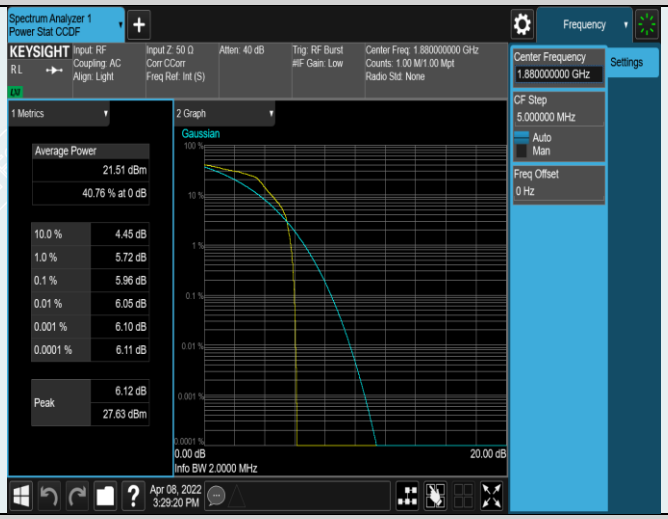
GPRS1900-512

GPRS1900-661

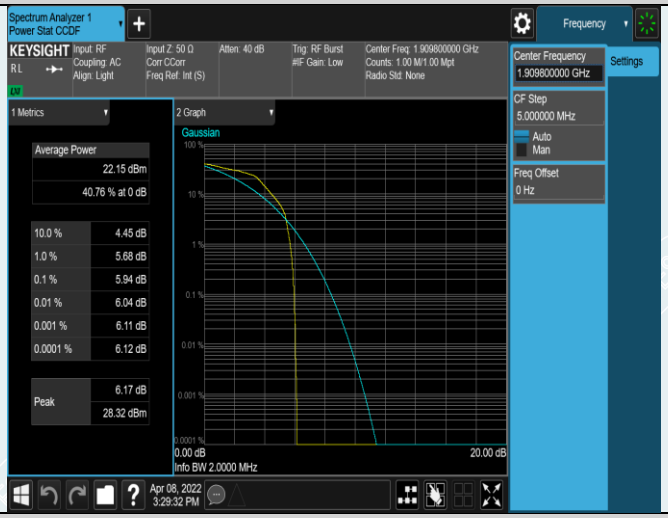
GPRS1900-810



EGPRS1900-512



EGPRS1900-661



EGPRS1900-810

WCDMA

Band2-9262

Band2-9400

Band2-9538

Band4-1312

Band4-1413

Band4-1513

Band5-4132

Band5-4182

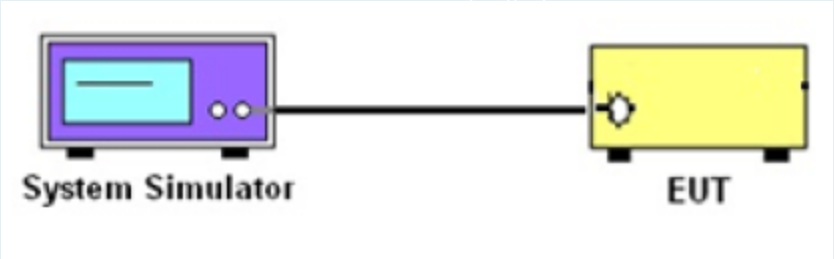
Band5-4233

7. MODULATION CHARACTERISTICS

7.1 TEST PROCEDURES

The devices may employ any type of modulation techniques. The type of modulation used must be reported.

7.2 TEST SETUP



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