

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640 Fax: +86-755-26648637

Website: www.cqa-cert.com Report Template Revision Date: 2021-11-03

Report Template Version: V05

Test Report

Report No.: CQASZ20220801509E-01 **Applicant:** THINKCAR TECH CO., LTD.

Address of Applicant: 2606, building 4, phase II, TiananYungu, Gangtou community, Bantian,

Longgang District, Shenzhen

Equipment Under Test (EUT):

Product: Modular Comprehensive Automotive Diagnostic Tool

Model No.: TKT16, THINKTOOL Euro Expert, THINKTOOL Platinum S12

Test Model No.: TKT16

Brand Name: THINKCAR, XHINKCAR, MUCAR

FCC ID: 2AUARTKTOOL12

Standards: 47 CFR Part 15, Subpart C

Date of Receipt: 2022-08-31

Date of Test: 2022-08-31 to 2022-09-20

Date of Issue: 2022-12-08
Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above.

Tested By:

(Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By:

(Jack Ai)





Report No.: CQASZ20220801509E-01

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20220801509E-01	Rev.01	Initial report	2022-12-08



2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 (2013)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(1)	ANSI C63.10 (2013)	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Carrier Frequencies Separation	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Hopping Channel Number	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Dwell Time	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15, Subpart C Section 15.247(b)(4)&TCB Exclusion List (7 July 2002)	ANSI C63.10 (2013)	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 (2013)	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 (2013)	PASS
Radiated Spurious emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 (2013)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 (2013)	PASS



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4 General Information

4.1 Client Information

Applicant:	THINKCAR TECH CO., LTD.
Address of Applicant:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen
Manufacturer:	THINKCAR TECH CO., LTD.
Address of Manufacturer:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen
Factory:	THINKCAR TECH CO., LTD.
Address of Factory:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen

4.2 General Description of EUT

_	
Product Name:	Modular Comprehensive Automotive Diagnostic Tool
Model No.:	TKT16, THINKTOOL Euro Expert, THINKTOOL Platinum S12
Test Model No.:	TKT16
Trade Mark:	THINKCAR, XHINKCAR, MUCAR
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.1
Software Version:	V1.4 20220930-1448
Hardware Version:	BSK-Y19-V1A
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Test Software of EUT:	android system
Antenna Type:	FPC antenna
Antenna Gain:	3.72dBi
Power Supply:	Li-ion battery: DC 7.6V 6300mAh, Charge by DC 5V for adapter



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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency	
The Lowest channel	2402MHz	
The Middle channel	2441MHz	
The Highest channel	2480MHz	

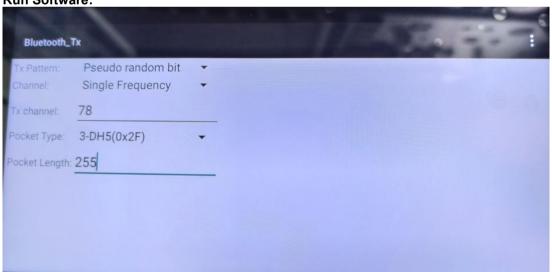


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4.3 Additional Instructions

EUT Test Software S					
Mode:	Special software is used.				
	☐ Through engineering command into the engineering mode.				
	engineering command: *#*#364663	3#*#*			
EUT Power level:	Class2 (Power level is built-in set pa selected)	arameters and cannot be changed and			
se test software to set the	lowest frequency, the middle frequency a	and the highest frequency keep			
ansmitting of the EUT.					
Mode	Channel	Frequency(MHz)			
	CH0	2402			
DH1/DH3/DH5	CH39	2441			
	CH78	2480			
	CH0	2402			
2DH1/2DH3/2DH5	CH39	2441			
	CH78	2480			
	CH0	2402			
3DH1/3DH3/3DH5	CH39	2441			
	CH78	2480			

Run Software:





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4.4 Test Environment

Operating Environment:	Operating Environment:		
Temperature:	25 °C		
Humidity:	54% RH		
Atmospheric Pressure:	1009mbar		
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.		

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
/	/	1	/	/





4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty
1	Radiated Emission (Below 1GHz)	5.12dB
2	Radiated Emission (Above 1GHz)	4.60dB
3	Conducted Disturbance (0.15~30MHz)	3.34dB
4	Radio Frequency	3×10 ⁻⁸
5	Duty cycle	0.6 %
6	Occupied Bandwidth	1.1%
7	RF conducted power	0.86dB
8	RF power density	0.74
9	Conducted Spurious emissions	0.86dB
10	Temperature test	0.8℃
11	Humidity test	2.0%
12	Supply voltages	0.5 %
13	Frequency Error	5.5 Hz



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4.7 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L5785)

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

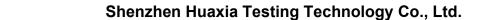
Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.9 Abnormalities from Standard Conditions

None.

4.10 Other Information Requested by the Customer

None.





4.11 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2022/9/9	2023/9/8
Spectrum analyzer	R&S	FSU26	CQA-038	2022/9/9	2023/9/8
		AFS4-00010300-18-10P-			
Preamplifier	MITEQ	4	CQA-035	2022/9/9	2023/9/8
		AMF-6D-02001800-29-			
Preamplifier	MITEQ	20P	CQA-036	2022/9/9	2023/9/8
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2021/9/16	2024/9/15
Bilog Antenna	R&S	HL562	CQA-011	2021/9/16	2024/9/15
Horn Antenna	R&S	HF906	CQA-012	2021/9/16	2024/9/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/9/16	2024/9/15
Coaxial Cable					
(Above 1GHz)	CQA	N/A	C019	2022/9/9	2023/9/8
Coaxial Cable					
(Below 1GHz)	CQA	N/A	C020	2022/9/9	2023/9/8
Antenna Connector	CQA	RFC-01	CQA-080	2022/9/9	2023/9/8
RF					
cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2022/9/9	2023/9/8
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2022/9/9	2023/9/8
EMI Test Receiver	R&S	ESPI3	CQA-013	2022/9/9	2023/9/8
LISN	R&S	ENV216	CQA-003	2022/9/9	2023/9/8
Coaxial cable	CQA	N/A	CQA-C009	2022/9/9	2023/9/8

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.





5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is FPC antenna. The best case gain of the antenna is 3.72 dBi.





5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:	_ Limi		BuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithn	n of the frequency.			
Test Procedure:	 The mains terminal disturbroom. The EUT was connected to Impedance Stabilization Not impedance. The power call connected to a second LIS reference plane in the same measured. A multiple sock power cables to a single Libert exceeded. The tabletop EUT was place ground reference plane. At placed on the horizontal ground reference plane. At placed on the horizontal ground reference plane. The EUT shall be 0.4 mm vertical ground reference preference plane. The LISN unit under test and bonded mounted on top of the group between the closest points. 	Decreases with the logarithm of the frequency. The mains terminal disturbance voltage test was conducted in a shield room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω line impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT w placed on the horizontal ground reference plane, The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.			
	ANSI C63.10: 2013 on con	ducted measurement.			
Test Setup:	Shielding Room EUT AC Mains LISN1	AE LISN2 AC Main Ground Reference Plane	Test Receiver		

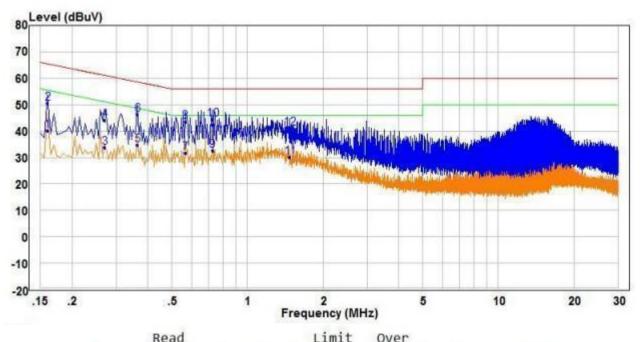


Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC 120V/60Hz
Test Results:	Pass



Measurement Data

Live line:



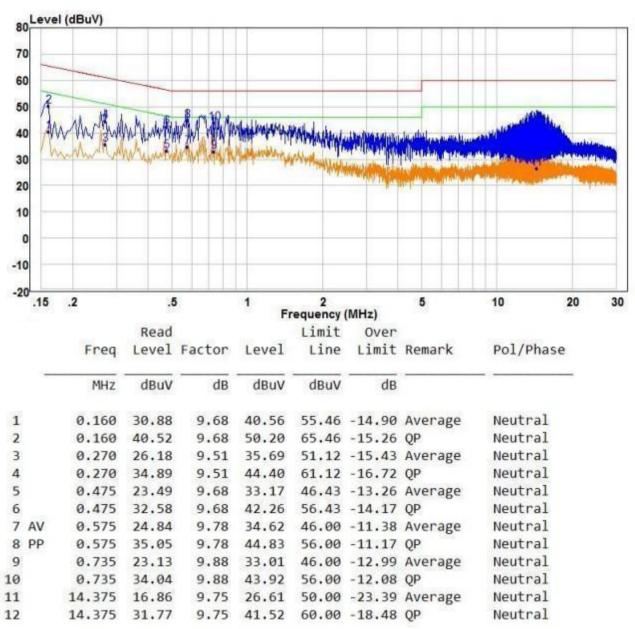
		Level	Line	Limit	Remark	Pol/Phase
MHz dBu	/ dB	dBuV	dBuV	dB		
160 30.4	9.68	40.12	55.46	-15.34	Average	Line
160 40.7	9.68	50.39	65.46	-15.07	QP	Line
270 24.4	9.52	33.96	51.12	-17.16	Average	Line
270 34.5	9.52	44.11	61.12	-17.01	QP	Line
365 25.2	9.57	34.81	48.61	-13.80	Average	Line
365 36.7	9.57	46.31	58.61	-12.30	QP	Line
565 22.0	9.77	31.78	46.00	-14.22	Average	Line
565 33.9	9.77	43.67	56.00	-12.33	QP	Line
725 22.6	9.88	32.48	46.00	-13.52	Average	Line
725 34.4	9.88	44.31	56.00	-11.69	QP	Line
475 19.3	7 10.79	30.16	46.00	-15.84	Average	Line
475 30.3	5 10.79	41.14	56.00	-14.86	QP	Line
	dBuy 160 30.44 160 40.73 270 24.44 270 34.59 365 25.24 365 36.74 565 22.03 565 33.96 725 34.43 475 19.33	MHZ dBuV dB 160 30.44 9.68 160 40.71 9.68 270 24.44 9.52 270 34.59 9.52 365 25.24 9.57 365 36.74 9.57 365 32.01 9.77 565 33.90 9.77 725 22.60 9.88 725 34.43 9.88 475 19.37 10.79	MHZ dBuV dB dBuV 160 30.44 9.68 40.12 160 40.71 9.68 50.39 170 24.44 9.52 33.96 170 34.59 9.52 44.11 1865 25.24 9.57 34.81 1865 36.74 9.57 46.31 1865 33.90 9.77 43.67 1725 22.60 9.88 32.48 1725 34.43 9.88 44.31 175 19.37 10.79 30.16	The control of the co	The Level Factor Level Line Limit dBuV dBuV dB dBuV dBuV dB dBuV dBuV dB dBuV dBuV	The Level Factor Level Line Limit Remark MHz

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



Neutral line:



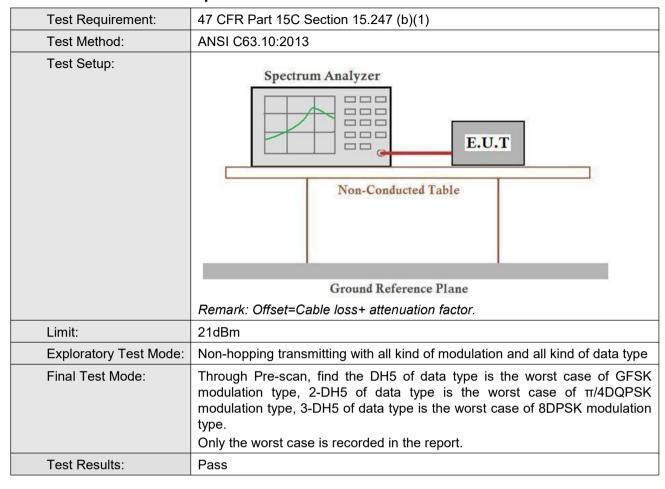
Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



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5.3 Conducted Peak Output Power





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Measurement Data

GFSK mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	7.93	21.00	Pass			
Middle	9.17	21.00	Pass			
Highest	8.38	21.00	Pass			
	π/4DQPSK m	ode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	7.01	21.00	Pass			
Middle	8.36	21.00	Pass			
Highest	7.24 21.00		Pass			
	8DPSK mod	e				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	7.1	21.00	Pass			
Middle	8.36	21.00	Pass			
Highest	7.31	21.00	Pass			











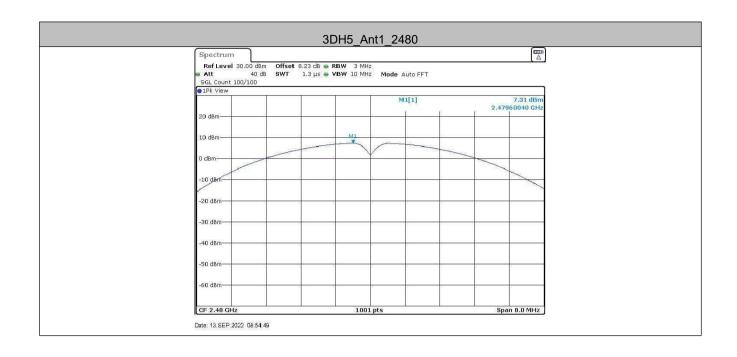








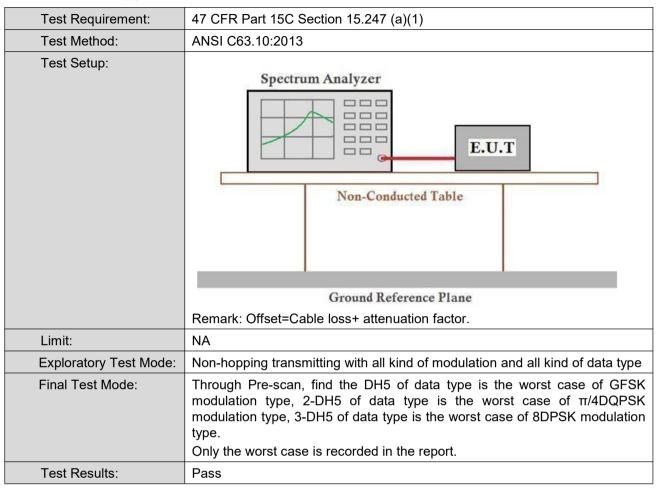








5.4 20dB Occupy Bandwidth



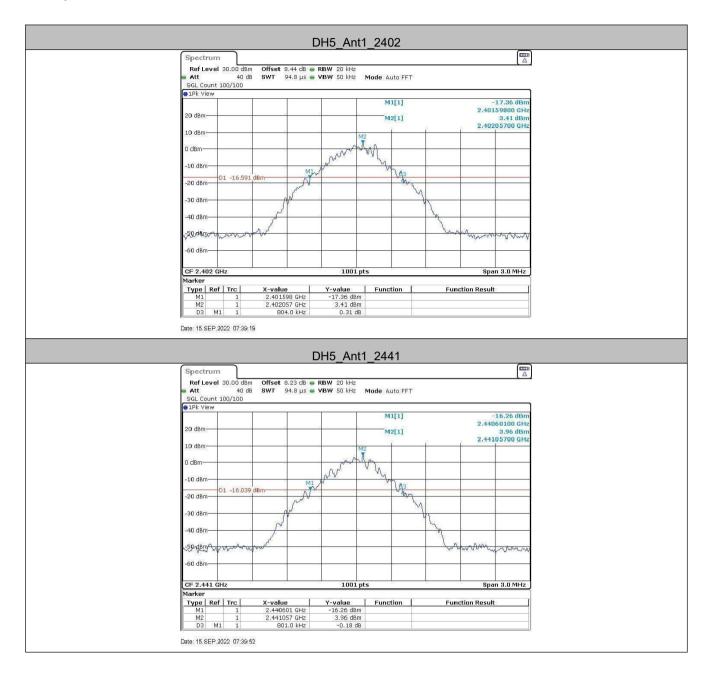
Measurement Data

Toot shown al	20dB Occupy Bandwidth (MHz)			
Test channel	GFSK	π/4DQPSK	8DPSK	
Lowest	0.804	1.194	1.248	
Middle	0.801	1.185	1.236	
Highest	0.807	1.254	1.203	

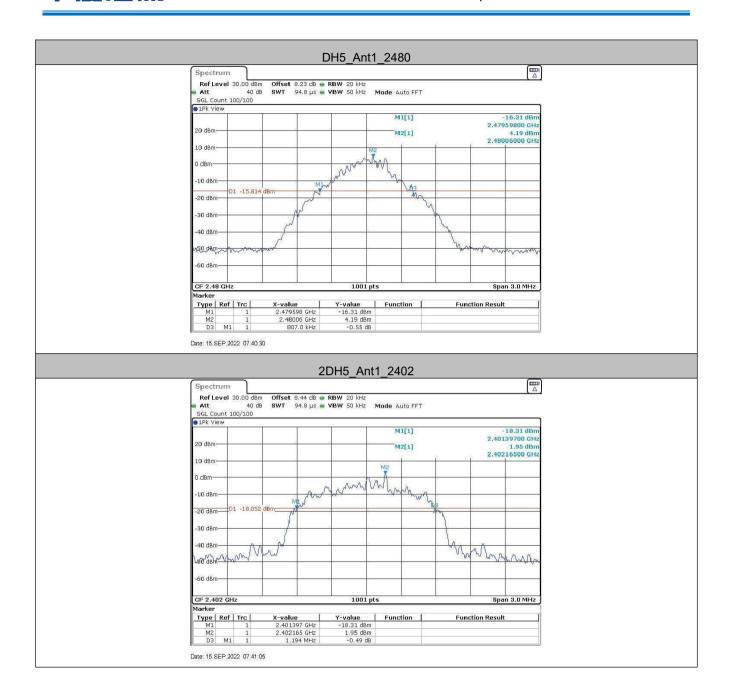
(QA 华夏准测

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Test plot as follows:







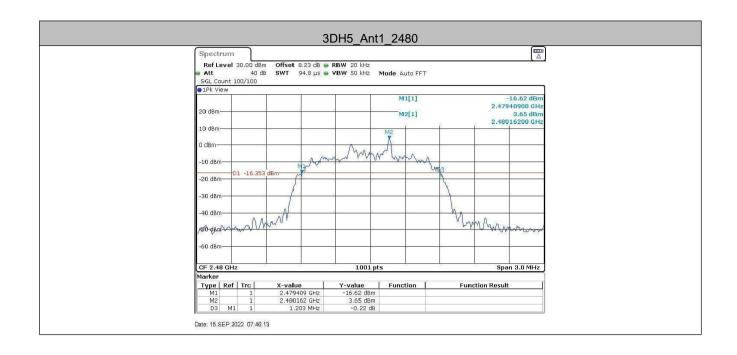














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5.5 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)			
Test Method:	ANSI C63.10:2013			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
	Remark: Offset=Cable loss+ attenuation factor.			
Limit:	2/3 of the 20dB bandwidth			
	Remark: the transmission power is less than 0.125W.			
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type			
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.			
Test Results:	Pass			



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Measurement Data

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Нор	0.684	≥0.538	PASS
2DH5	Ant1	Нор	1.003	≥0.836	PASS
3DH5	Ant1	Нор	0.846	≥0.832	PASS

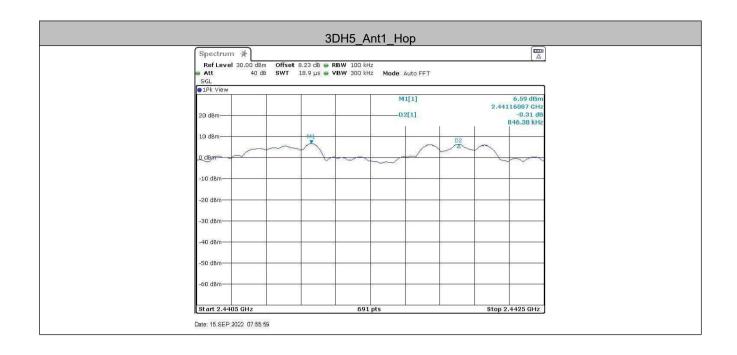
Mode	20dB bandwidth (MHz) (worse case)	Limit (MHz) (Carrier Frequencies Separation)		
GFSK	0.807	0.538		
π/4DQPSK	1.254	0.836		
8DPSK	1.248	0.832		



Test plot as follows:



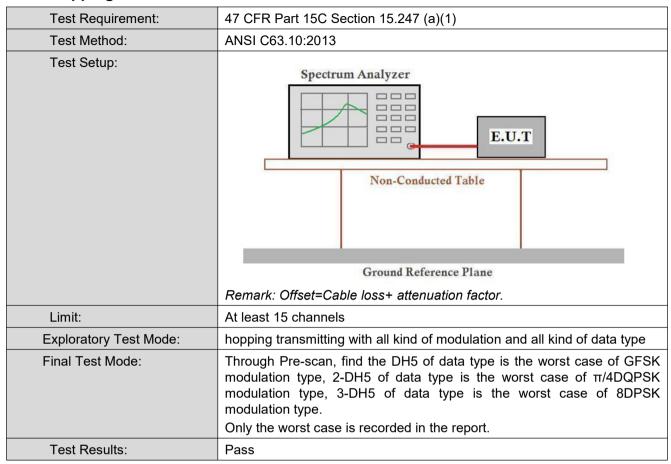






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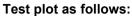
5.6 Hopping Channel Number

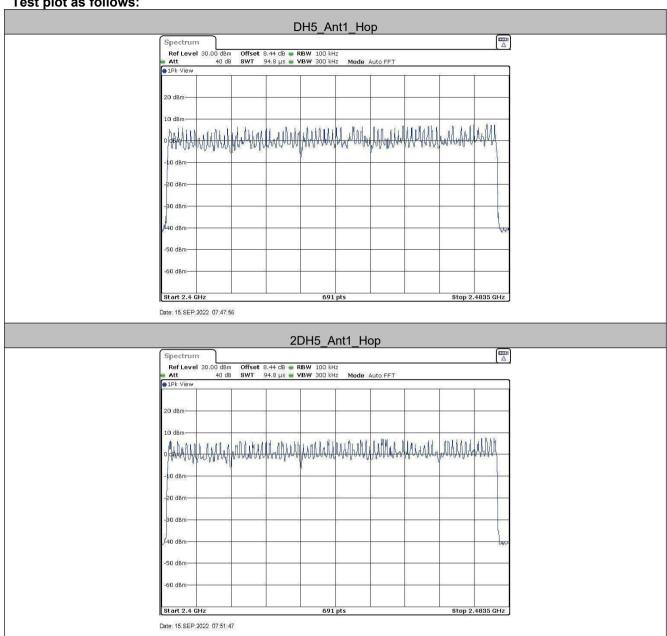


Measurement Data

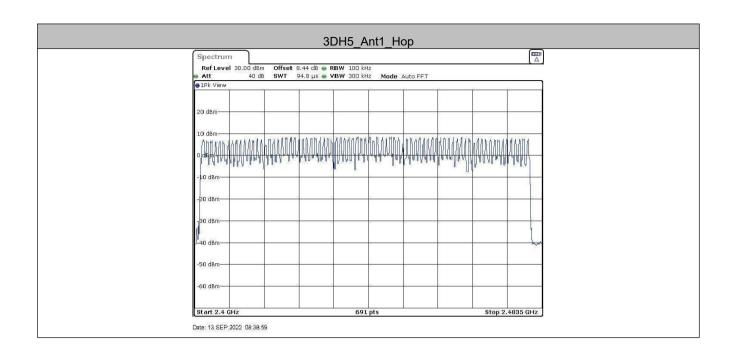
Mode	Hopping channel numbers	Limit
GFSK	79	≥15
π/4DQPSK	79	≥15
8DPSK	79	≥15







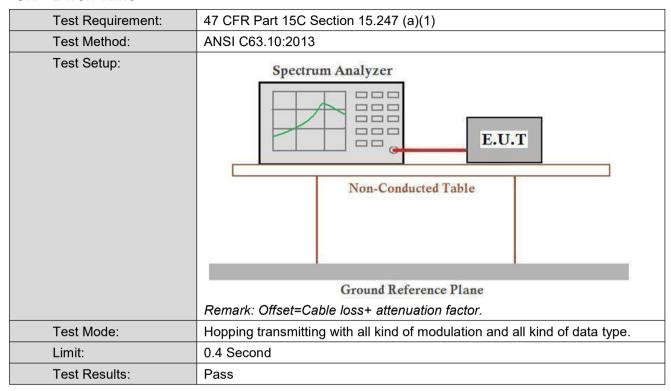








5.7 Dwell Time





Report No.: CQASZ20220801509E-01

Measurement Data

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.37	320	0.118	≤0.4	PASS
DH3	Ant1	Нор	1.61	170	0.274	≤0.4	PASS
DH5	Ant1	Нор	2.85	120	0.342	≤0.4	PASS
2DH1	Ant1	Нор	0.38	320	0.12	≤0.4	PASS
2DH3	Ant1	Нор	1.62	170	0.276	≤0.4	PASS
2DH5	Ant1	Нор	2.86	110	0.315	≤0.4	PASS
3DH1	Ant1	Hop	0.38	320	0.12	≤0.4	PASS
3DH3	Ant1	Нор	1.62	170	0.275	≤0.4	PASS
3DH5	Ant1	Нор	2.86	110	0.315	≤0.4	PASS

Remark:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s





Test plot as follows:

