

FCC Test Report

Applicant : Launch Tech Co., Ltd.

Address : Launch Industrial Park, North of Wuhe Rd.,
Banxuegang, Longgang, Shenzhen, 518129,
China

Product Name : Automotive Diagnostic Tool

Report Date : May 11, 2024



Shenzhen Anbotech Compliance Laboratory Limited

Shenzhen Anbotech Compliance Laboratory Limited

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Hotline
400-003-0500
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Contents

1. General Information	5
1.1. Client Information	5
1.2. Description of Device (EUT)	5
1.3. Auxiliary Equipment Used During Test	6
1.4. Operation channel list	7
1.5. Description of Test Modes	8
1.6. Measurement Uncertainty	8
1.7. Test Summary	9
1.8. Description of Test Facility	10
1.9. Disclaimer	10
1.10. Test Equipment List	11
2. Antenna requirement	12
2.1. Conclusion	12
3. Conducted Emission at AC power line	13
3.1. EUT Operation	13
3.2. Test Setup	13
3.3. Test Data	14
4. Maximum Conducted Output Power	16
4.1. EUT Operation	16
4.2. Test Setup	17
4.3. Test Data	17
5. Emissions in frequency bands (below 1GHz)	18
5.1. EUT Operation	18
5.2. Test Setup	19
5.3. Test Data	20
6. Emissions in frequency bands (above 1GHz)	22
6.1. EUT Operation	22
6.2. Test Setup	23
6.3. Test Data	24
APPENDIX I -- TEST SETUP PHOTOGRAPH	27
APPENDIX II -- EXTERNAL PHOTOGRAPH	27
APPENDIX III -- INTERNAL PHOTOGRAPH	27



Report No.: 18220WC40058501

FCC ID: XUJOADDPD1302

Page 3 of 27

TEST REPORT

Applicant : Launch Tech Co., Ltd.

Manufacturer : Launch Tech Co., Ltd.

Product Name : Automotive Diagnostic Tool

Test Model No. : OADD-PD1302A

Reference Model No. : OADD-PD1302x (x=A~Z, indicating configuration difference)

Trade Mark : LAUNCH

Rating(s) : Input: 12V= 4A(with DC 7.6V, 9360mAh battery inside)

Test Standard(s) : 47 CFR Part 15.247

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:

Mar. 26, 2024

Date of Test:

Mar. 26, 2024 to May 11, 2024

Prepared By:

Ella Liang

(Ella Liang)

Approved & Authorized Signer:

Edward Pan

(Edward Pan)

Shenzhen Anbotek Compliance Laboratory Limited

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Revision History

Report Version	Description	Issued Date
R00	Original Issue.	May 11, 2024

Note 1:

This is a Class II application which was based on the certified FCC ID: XUJOADDPD1302. The difference between the original device and current one described as following:

1. Change the model name to "OADD-PD1302x (x=A~Z, indicating configuration difference)".
2. Change the Product Name to "Automotive Diagnostic Tool".
3. Change the trade mark to "LAUNCH".
4. Add the adapter with PSY1204000.
5. Change the EUT appearance shape.
6. Remove the LTE part of the motherboard.

The changes are not related with the other RF parameters, only conducted emission and radiation spurious emission were retested with adapter PSY1204000.



1. General Information

1.1. Client Information

Applicant	:	Launch Tech Co., Ltd.
Address	:	Launch Industrial Park, North of Wuhe Rd., Banxuegang, Longgang, Shenzhen, 518129, China
Manufacturer	:	Launch Tech Co., Ltd.
Address	:	Launch Industrial Park, North of Wuhe Rd., Banxuegang, Longgang, Shenzhen, 518129, China

1.2. Description of Device (EUT)

Product Name	:	Automotive Diagnostic Tool
Test Model No.	:	OADD-PD1302A
Reference Model No.	:	OADD-PD1302x (x=A~Z, indicating configuration difference) (Note: All samples are the same except the model number and appearance color, so we prepare "OADD-PD1302A" for test only.)
Trade Mark	:	LAUNCH
Test Power Supply	:	AC 120V/60Hz for adapter; DC 7.6V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Model: XDJ481D-120400 Input: 100-240V~50/60Hz 1.8A Output: 12.0V= 4.0A 48.0W
Add Adapter	:	Model: PSY1204000 Input: 100-240V~50/60Hz 1.3A Output: 12.0V= 4.0A 48.0W

RF Specification

Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79
Modulation Type	:	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	:	FPC Antenna
Antenna Gain(Peak)	:	1.51dBi

Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
/	/	/	/

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1.4. Operation channel list

Operation Band:

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



1.5. Description of Test Modes

Pretest Modes	Descriptions
TM1	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2	Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
TM3	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
TM4	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation.
TM5	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
TM6	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	



1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	/	P
Conducted Emission at AC power line	Mode1,2,3	P
Maximum Conducted Output Power	Mode1,2,3	P
Emissions in frequency bands (below 1GHz)	Mode1,2,3	P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	P
Note: P: Pass N: N/A, not applicable		



1.8. Description of Test Facility

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

FCC-Registration No.:434132

Shenzhen Anbotech Compliance Laboratory Limited, 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. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotech Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotech and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



1.10. Test Equipment List**Conducted Emission at AC power line**

1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
2	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Emissions in frequency bands (above 1GHz)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	2024-01-17	2025-01-16
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/
5	Horn Antenna	A-INFO	LB-180400-KF	J211060628	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emissions in frequency bands (below 1GHz)

1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/

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2. Antenna requirement

Test Requirement:

Refer to 47 CFR Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

2.1. Conclusion

The antenna is a **FPC antenna** which permanently attached, and the best case gain of the antenna is **1.51 dBi**. It complies with the standard requirement.



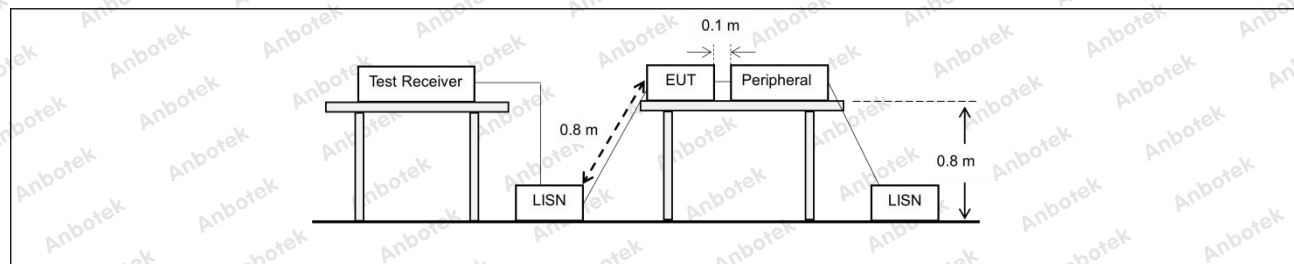
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		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 logarithm of the frequency.		
Test Method:	ANSI C63.10-2020 section 6.2		
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

3.1. EUT Operation

Operating Environment:	
Test mode:	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX- $\pi/4$ -DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

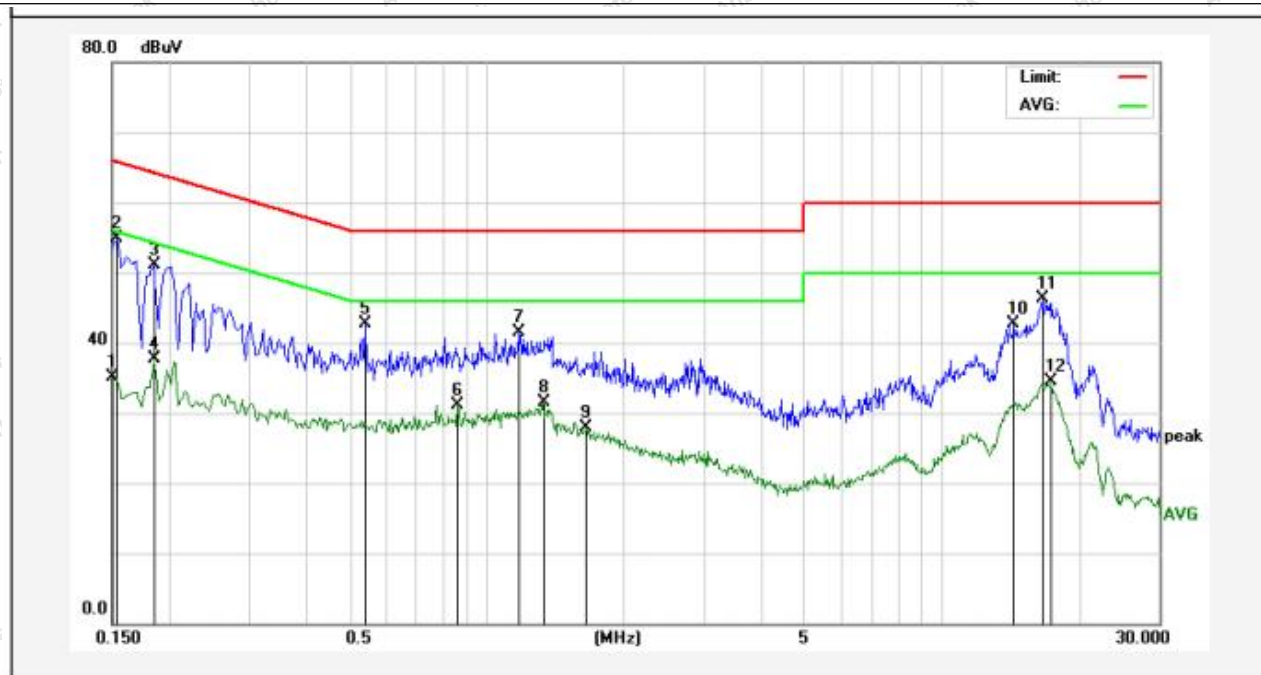
3.2. Test Setup



3.3. Test Data

Temperature:	22.5 °C	Humidity:	51.9 %	Atmospheric Pressure:	102 kPa
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TM3 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: M



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	17.29	17.82	35.11	55.99	-20.88	AVG	
2	0.1539	37.16	17.83	54.99	65.78	-10.79	QP	
3	0.1860	33.24	17.82	51.06	64.21	-13.15	QP	
4	0.1860	19.85	17.82	37.67	54.21	-16.54	AVG	
5	0.5420	24.83	17.86	42.69	56.00	-13.31	QP	
6	0.8660	13.34	17.86	31.20	46.00	-14.80	AVG	
7	1.1740	23.65	17.85	41.50	56.00	-14.50	QP	
8	1.3300	13.57	17.86	31.43	46.00	-14.57	AVG	
9	1.6580	9.98	17.85	27.83	46.00	-18.17	AVG	
10	14.3740	24.60	18.12	42.72	60.00	-17.28	QP	
11	16.6500	28.08	18.19	46.27	60.00	-13.73	QP	
12	17.4460	16.31	18.21	34.52	50.00	-15.48	AVG	



Report No.: 18220WC40058501

FCC ID: XUJOADDPD1302

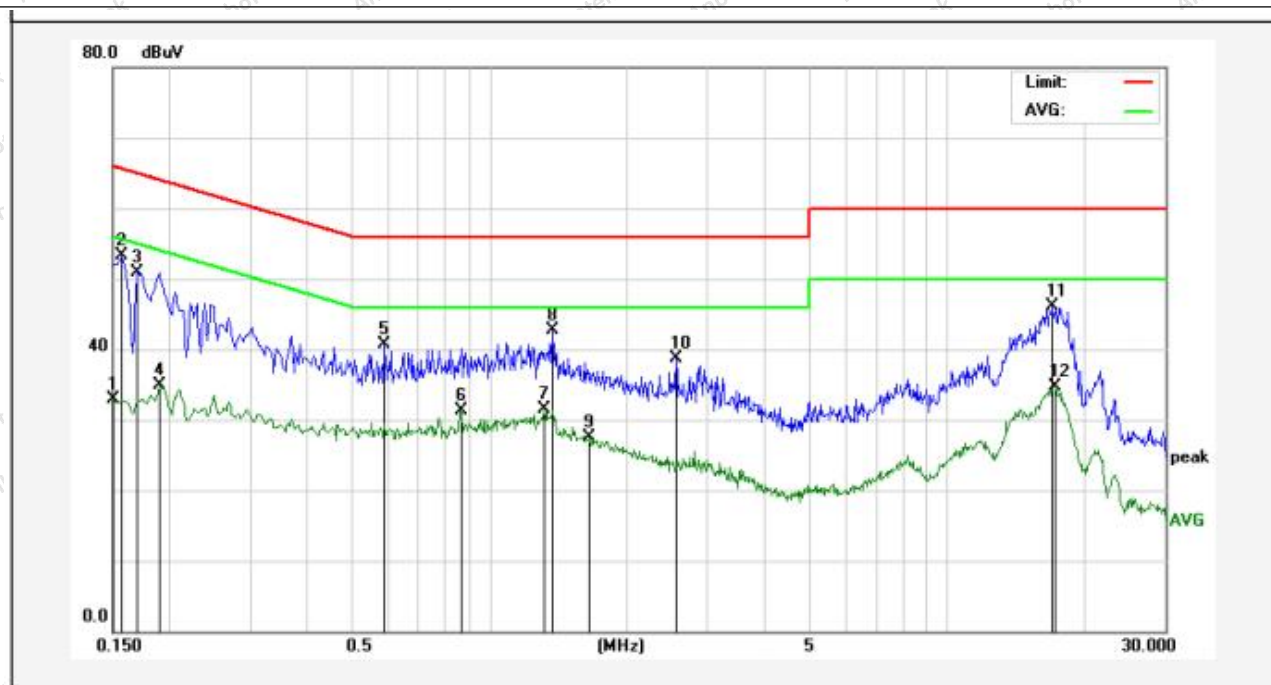
Page 15 of 27

Temperature: 22.5 °C

Humidity: 51.9 %

Atmospheric Pressure: 102 kPa

TM3 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: M



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1499	15.17	17.82	32.99	56.00	-23.01	AVG	
2	0.1580	35.50	17.83	53.33	65.56	-12.23	QP	
3	0.1700	33.12	17.83	50.95	64.96	-14.01	QP	
4	0.1900	16.99	17.82	34.81	54.03	-19.22	AVG	
5	0.5899	22.93	17.86	40.79	56.00	-15.21	QP	
6	0.8660	13.49	17.86	31.35	46.00	-14.65	AVG	
7	1.3220	13.62	17.86	31.48	46.00	-14.52	AVG	
8	1.3779	24.75	17.86	42.61	56.00	-13.39	QP	
9	1.6580	9.71	17.85	27.56	46.00	-18.44	AVG	
10	2.5540	20.94	17.85	38.79	56.00	-17.21	QP	
11	17.0819	27.81	18.20	46.01	60.00	-13.99	QP	
12	17.1539	16.43	18.20	34.63	50.00	-15.37	AVG	

Note: Only record the worst data in the report.



4. Maximum Conducted Output Power

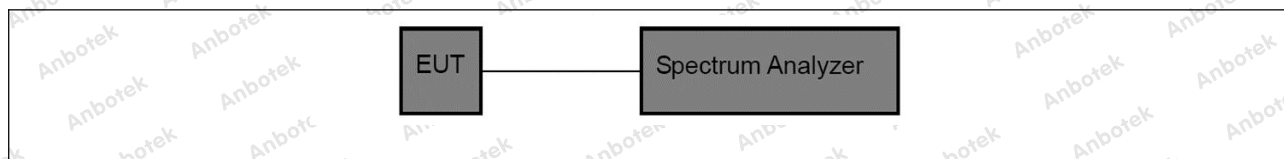
Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5
Procedure:	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

4.1. EUT Operation

Operating Environment:	
Test mode:	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX-$\pi/4$-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.



4.2. Test Setup



4.3. Test Data

Temperature:	25.6 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
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Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	15.94	≤20.97	PASS
		2441	17.75	≤20.97	PASS
		2480	16.69	≤20.97	PASS
2DH5	Ant1	2402	15.93	≤20.97	PASS
		2441	17.54	≤20.97	PASS
		2480	16.45	≤20.97	PASS
3DH5	Ant1	2402	16.57	≤20.97	PASS
		2441	18.20	≤20.97	PASS
		2480	16.85	≤20.97	PASS

Note: For pre-scan, the result is equal to original, so the original data is referenced.



5. Emissions in frequency bands (below 1GHz)

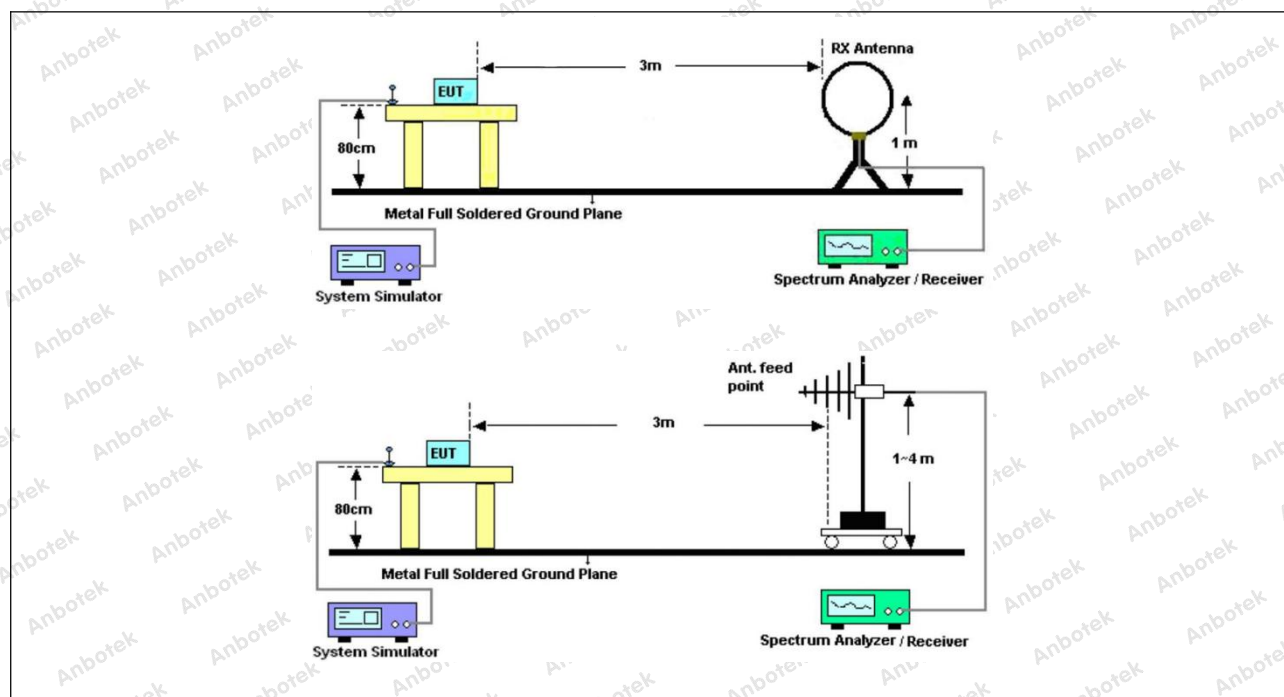
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.6.4		
Procedure:	ANSI C63.10-2020 section 6.6.4		

5.1. EUT Operation

Operating Environment:	
Test mode:	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX- $\pi/4$ -DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.



5.2. Test Setup

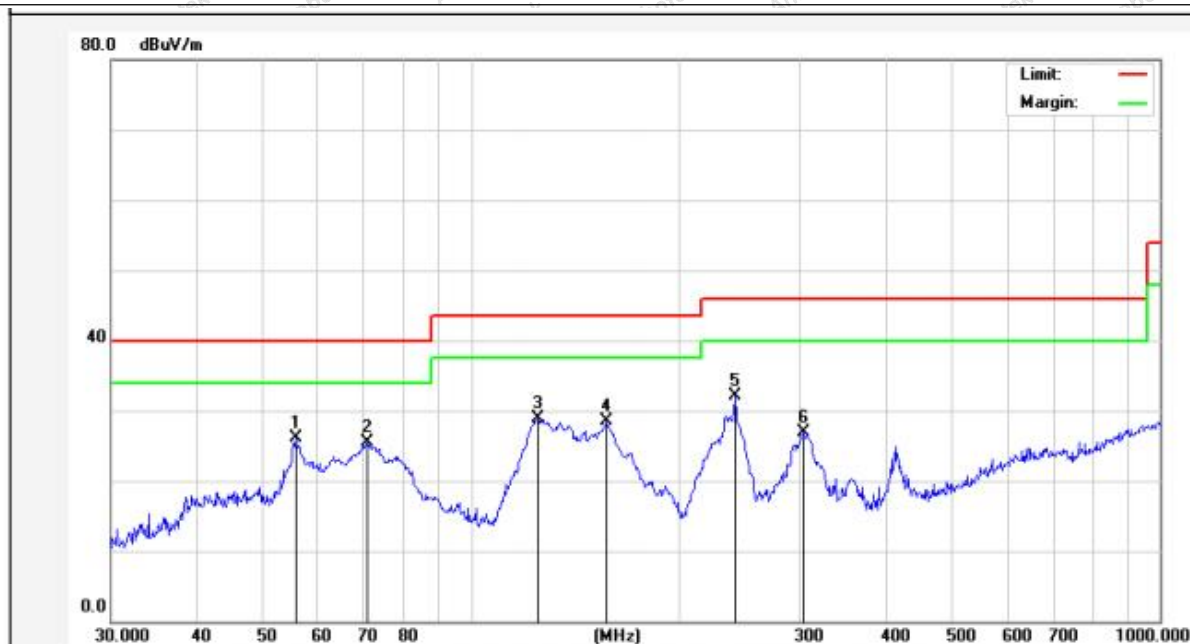


5.3. Test Data

Remark: The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Temperature:	25.6 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
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TM3 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	55.6094	43.72	-17.61	26.11	40.00	-13.89	QP			
2	70.8315	47.64	-22.21	25.43	40.00	-14.57	QP			
3	125.0066	52.06	-23.22	28.84	43.50	-14.66	QP			
4	157.0074	52.11	-23.67	28.44	43.50	-15.06	QP			
5	241.6763	53.82	-21.64	32.18	46.00	-13.82	QP			
6	303.5437	44.08	-17.08	27.00	46.00	-19.00	QP			



Report No.: 18220WC40058501

FCC ID: XUJOADDPD1302

Page 21 of 27

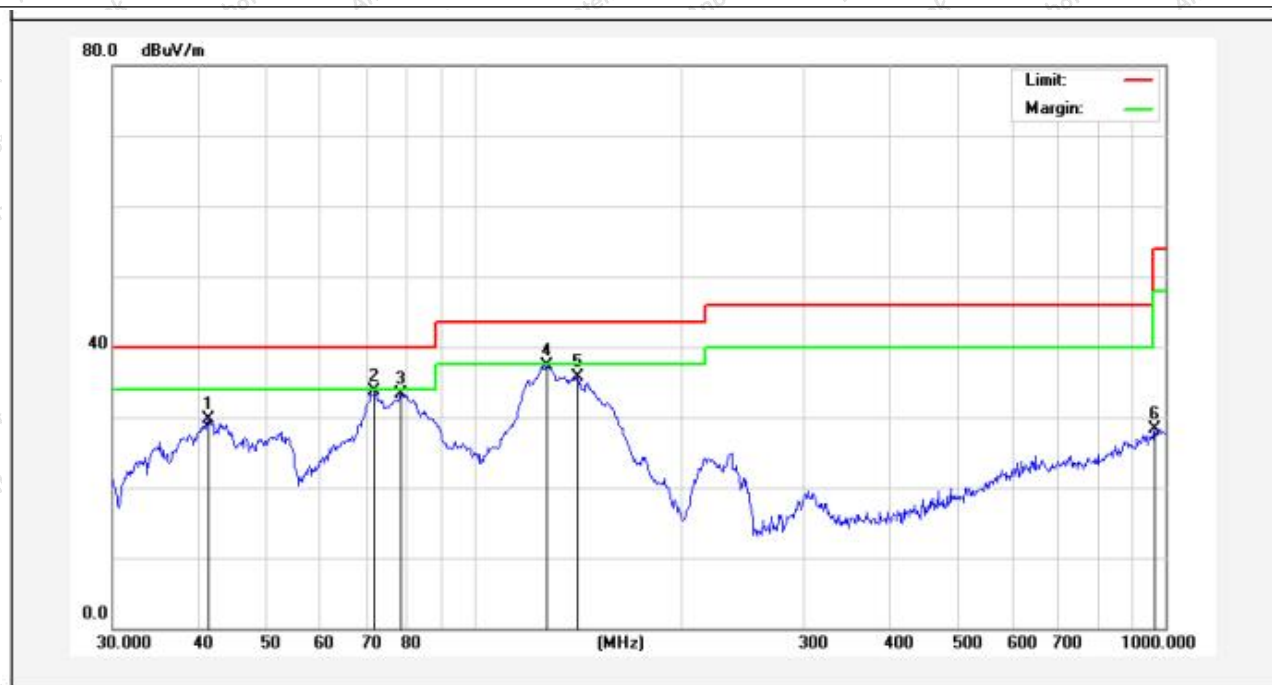
Temperature: 25.6 °C

Humidity: 49 %

Atmospheric Pressure:

101 kPa

TM3 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	41.2765	44.30	-14.69	29.61	40.00	-10.39	QP			
2	71.8320	53.67	-19.94	33.73	40.00	-6.27	QP			
3	78.4133	52.83	-19.49	33.34	40.00	-6.66	QP			
4	127.2176	58.36	-21.04	37.32	43.50	-6.18	QP			
5	141.3298	57.94	-22.18	35.76	43.50	-7.74	QP			
6	965.5421	33.60	-5.36	28.24	54.00	-25.76	QP			

Note: Only record the worst data in the report.



6. Emissions in frequency bands (above 1GHz)

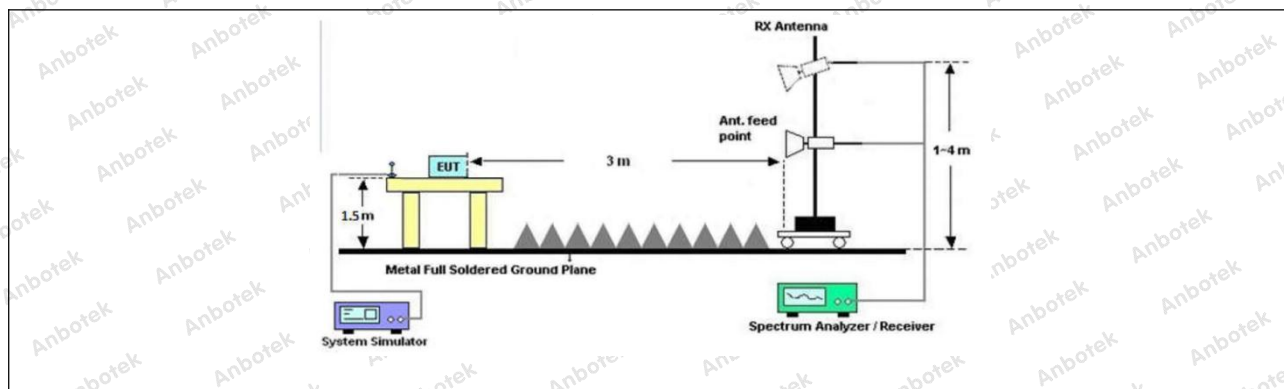
Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.6.4		
Procedure:	ANSI C63.10-2020 section 6.6.4		

6.1. EUT Operation

Operating Environment:	
Test mode:	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX-$\pi/4$-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.



6.2. Test Setup



6.3. Test Data

Temperature:	25.6 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
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TM3 / CH: L						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.38	15.27	43.65	74.00	-30.35	Vertical
7206.00	29.34	18.09	47.43	74.00	-26.57	Vertical
9608.00	30.57	23.76	54.33	74.00	-19.67	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	28.65	15.27	43.92	74.00	-30.08	Horizontal
7206.00	29.96	18.09	48.05	74.00	-25.95	Horizontal
9608.00	28.75	23.76	52.51	74.00	-21.49	Horizontal
12010.00	*			74.00		Horizontal
14412.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	17.76	15.27	33.03	54.00	-20.97	Vertical
7206.00	18.37	18.09	36.46	54.00	-17.54	Vertical
9608.00	19.59	23.76	43.35	54.00	-10.65	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	17.00	15.27	32.27	54.00	-21.73	Horizontal
7206.00	19.02	18.09	37.11	54.00	-16.89	Horizontal
9608.00	18.06	23.76	41.82	54.00	-12.18	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			54.00		Horizontal

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TM3/ CH: M

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	28.40	15.42	43.82	74.00	-30.18	Vertical
7323.00	29.19	18.02	47.21	74.00	-26.79	Vertical
9764.00	29.58	23.80	53.38	74.00	-20.62	Vertical
12205.00	*			74.00		Vertical
14646.00	*			74.00		Vertical
4882.00	28.35	15.42	43.77	74.00	-30.23	Horizontal
7323.00	29.95	18.02	47.97	74.00	-26.03	Horizontal
9764.00	28.45	23.80	52.25	74.00	-21.75	Horizontal
12205.00	*			74.00		Horizontal
14646.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	17.49	15.42	32.91	54.00	-21.09	Vertical
7323.00	18.47	18.02	36.49	54.00	-17.51	Vertical
9764.00	19.45	23.80	43.25	54.00	-10.75	Vertical
12205.00	*			54.00		Vertical
14646.00	*			54.00		Vertical
4882.00	16.91	15.42	32.33	54.00	-21.67	Horizontal
7323.00	18.58	18.02	36.60	54.00	-17.40	Horizontal
9764.00	18.57	23.80	42.37	54.00	-11.63	Horizontal
12205.00	*			54.00		Horizontal
14646.00	*			54.00		Horizontal

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TM3 / CH: H

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	28.67	15.58	44.25	74.00	-29.75	Vertical
7440.00	29.20	17.93	47.13	74.00	-26.87	Vertical
9920.00	30.13	23.83	53.96	74.00	-20.04	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	28.42	15.58	44.00	74.00	-30.00	Horizontal
7440.00	29.98	17.93	47.91	74.00	-26.09	Horizontal
9920.00	29.13	23.83	52.96	74.00	-21.04	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	18.61	15.58	34.19	54.00	-19.81	Vertical
7440.00	19.48	17.93	37.41	54.00	-16.59	Vertical
9920.00	20.00	23.83	43.83	54.00	-10.17	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	18.35	15.58	33.93	54.00	-20.07	Horizontal
7440.00	19.95	17.93	37.88	54.00	-16.12	Horizontal
9920.00	18.47	23.83	42.30	54.00	-11.70	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			54.00		Horizontal

Remark:

1. Result = Reading + Factor
2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.
3. Only the worst case is recorded in the report.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

