



FCC Test Report

Application No.: DNT2604101374R02542-03545
Applicant: Hanlin Yue (Shenzhen) Technology Co., Ltd
Address of Applicant: 1115, Yousong Business Building, No. 88 Minqing Road, Fukang Community, Longhua Street, Longhua District, Shenzhen
EUT Description: Page turner
Model No.: E3 Control
Additional Model(s): /
FCC ID: 2BLUQ-E3CONTROL
Power Supply: Input DC 5V; DC 3.7V from rechargeable lithium-ion battery
Trade Mark: Hanlinyue
47 CFR Part 2, Subpart J
Standards: 47 CFR Part 15, Subpart C
ANSI C63.10: 2020
Date of Receipt: 2026/04/10
Date of Test: 2026/04/10 to 2026/04/30
Date of Issue: 2026/04/30
Test Result: **PASS**

Prepared By: Carl. Lin (Testing Engineer)

Reviewed By: Wayne. Lin (Project Engineer)

Approved By: Heise Shen (Manager)



Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	April 30, 2026	Valid	Original Report



1 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b/c)	--	Clause 3.1	PASS
20dB Emission Bandwidth	15.247 (a)(1)	ANSI C63.10: 2020	Clause 3.2	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10: 2020	Clause 3.3	PASS
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10: 2020	Clause 3.4	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10: 2020	Clause 3.5	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10: 2020	Clause 3.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10: 2020	Clause 3.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10: 2020	Clause 3.8	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10: 2020	Clause 3.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10: 2020	Clause 3.10	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10: 2020	Clause 3.11	PASS

Note:

1. "N/A" denotes test is not applicable in this test report.



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2 General Information

2.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfu Road, Wusha Liwu, Chang'an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Gali Lin

2.2 General Description of EUT

Manufacturer:	Hanlin Yue (Shenzhen) Technology Co., Ltd
Address of Manufacturer:	1115, Yousong Business Building, No. 88 Mingqing Road, Fukang Community, Longhua Street, Longhua District, Shenzhen
EUT Description:	Page turner
Model No.:	E3 Control
Additional Model(s):	/
Power Supply:	Input DC 5V; DC 3.7V from rechargeable lithium-ion battery
Trade Mark:	Hanlinyue
Hardware Version:	V1.0
Software Version:	V1.0
Serial number:	PR2604101374R02542
Chip Type:	E003135-66C4
Operation Frequency:	2402MHz to 2480MHz
Type of Modulation:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Sample Type:	☒ Portable Device, ☐ Module, ☐ Mobile Device
Antenna Type:	☐ External, ☒ Integrated
Antenna Ports:	☒ Ant 1, ☐ Ant 2, ☐ Ant 3
Antenna Gain*:	☒ Provided by applicant
	-0.58dBi
RF Cable*:	☒ Provided by applicant
	0.5dB(0.6~1GHz); 0.8dB(1.4~2GHz); 1.0dB(2.1~2.7GHz); 1.5dB(3~4GHz); 1.8dB(4.4~6GHz);
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.	



2.3 Test Environment

Operating Environment:	
Temperature:	20~25.0 °C
Humidity:	45~56 % RH
Atmospheric Pressure:	101.0~101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

2.4 Channel List

Operation Frequency of each 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		

Remark:

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



2.5 Power Setting of Test Software

Software Name	FCC_assist_1.0.2.2		
Frequency(MHz)	2402	2441	2480
GFSK Setting	10	10	10
$\pi/4$ -DQPSK Setting	10	10	10
8-DPSK Setting	10	10	10

2.6 Assistant equipment used for test

Code	Equipment	Manufacturer	Model No.	Equipment No.
1	Computer	acer	N22C8	EMC notebook01
2	Adapter	Xiaomi	HW-100225C00	NA

2.7 Description of Support Units

The EUT has been tested as an independent unit.

2.8 Test Facility

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

Lab A:

• FCC, USA

Designation Number: CN1348

• A2LA (Certificate No. 7050.01)

DONGGUAN DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

• Innovation, Science and Economic Development Canada

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier is CN0149.

IC#: 30755.



2.9 Equipment List

For Connect EUT Antenna Terminal Test					
Description	Manufacturer	Model	Serial Number	Cal date	Due date
Signal Generator	Keysight	N5181A-6G	MY48180415	2025-10-21	2026-10-20
Signal Generator	Keysight	N5182B	MY57300617	2025-10-21	2026-10-20
Power supply	Keysight	E3640A	ZB2022656	2025-10-21	2026-10-20
Radio Communication Tester	R&S	CMW500	105082	2025-10-21	2026-10-20
Spectrum Analyzer	Aglient	N9010A	MY52220200	2025-10-21	2026-10-20
BT/WIFI Test Software	Tonscend	JS1120 V3.1.83	NA	NA	NA
RF Control Unit	Tonscend	JS0806-2	22F8060581	NA	NA
Power Sensor	Anritsu	ML2495A	2129005	2025-10-21	2026-10-20
Pulse Power Sensor	Anritsu	MA2411B	1911397	2025-10-21	2026-10-20
temperature and humidity box	SCOTEK	SCD-C40-80PRO	6866682020008	2025-10-21	2026-10-20
RF Cable	ETS-LINDGREN	RFC-NMS-100-NMS-350-IN	NA	2025-10-21	2026-10-20

Test Equipment for Conducted Emission					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESCI3	101152	2025-10-21	2026-10-20
LISN	R&S	ENV216	102874	2025-10-21	2026-10-20
ISN	R&S	ENY81-CA6	1309.8590.03	2025-10-21	2026-10-20
RF Cable	ETS-LINDGREN	Cable-CE TS01	/	2025-10-21	2026-10-20

**Test Equipment for Radiated Emission(30MHz-1000MHz)**

Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESR7	102497	2025-10-21	2026-10-20
Test Software	Tonscend	JS32-RE	NA	NA	NA
RF Cable	ETS-LINDGREN	RE Cable-TS01	NA	2025-10-21	2026-10-20
Log periodic antenna	ETS-LINDGREN	VULB 9168	01475	2025-10-21	2026-10-20
Pre-amplifier	Schwarzbeck	BBV9743B	00423	2025-10-21	2026-10-20
Attenuator 1	Shanghai Huaxiang	TS2-6-18-A	22061803	2025-10-21	2026-10-20
Attenuator 2	Shanghai Huaxiang	TS2-6-6-A	230927163	2025-10-21	2026-10-20

Test Equipment for Radiated Emission(Above 1000MHz)

Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Frequency analyser	Keysight	N9010A	MY52221458	2025-10-21	2026-10-20
RF Cable	ETS-LINDGREN	RE Cable-TS02	NA	2025-10-21	2026-10-20
Horn Antenna	ETS-LINDGREN	3117	00252567	2025-10-21	2026-10-20
Double ridged waveguide antenna	ETS-LINDGREN	3116C	00251780	2025-10-21	2026-10-20
Test Software	Tonscend	JS32-RE	NA	NA	NA
Pre-amplifier	ETS-LINDGREN	3117-PA	252567	2025-10-21	2026-10-20
Pre-amplifier	ETS-LINDGREN	3116C-PA	251780	2025-10-21	2026-10-20

**2.10 Measurement Uncertainty (95% confidence levels, k=2)**

No.	Item	Measurement Uncertainty
1	20dB Emission Bandwidth	$\pm 0.0196\%$
2	Carrier Frequency Separation	$\pm 1.9\%$
3	Number of Hopping Channel	$\pm 1.9\%$
4	Time of Occupancy	$\pm 0.028\%$
5	Max Peak Conducted Output Power	± 0.743 dB
6	Band-edge Spurious Emission	± 1.328 dB
7	Conducted RF Spurious Emission	9KHz-1GHz: ± 0.746 dB 1GHz-26GHz: ± 1.328 dB

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0 dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8 dB (Below 1GHz)
		± 4.8 dB (1GHz to 6GHz)
		± 4.5 dB (6GHz to 18GHz)
		± 5.02 dB (Above 18GHz)



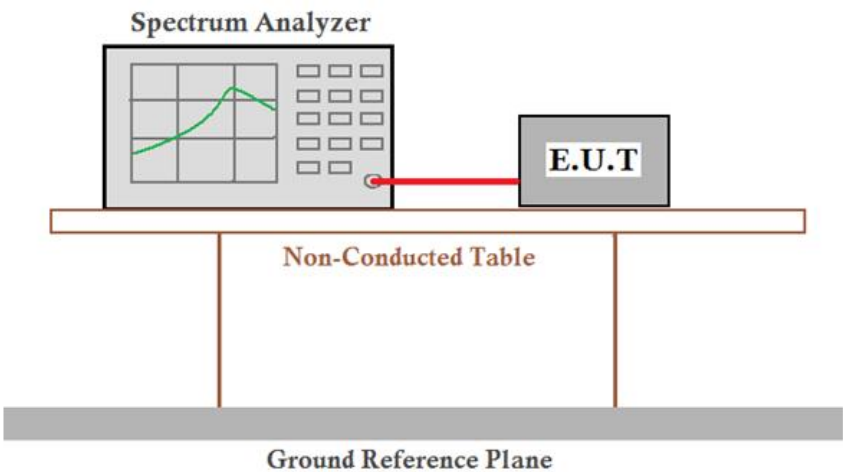
3 Test results and Measurement Data

3.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b/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 6dBi.	
The antenna is integrated to the motherboard, The best case gain of the antenna is -0.58dBi.	



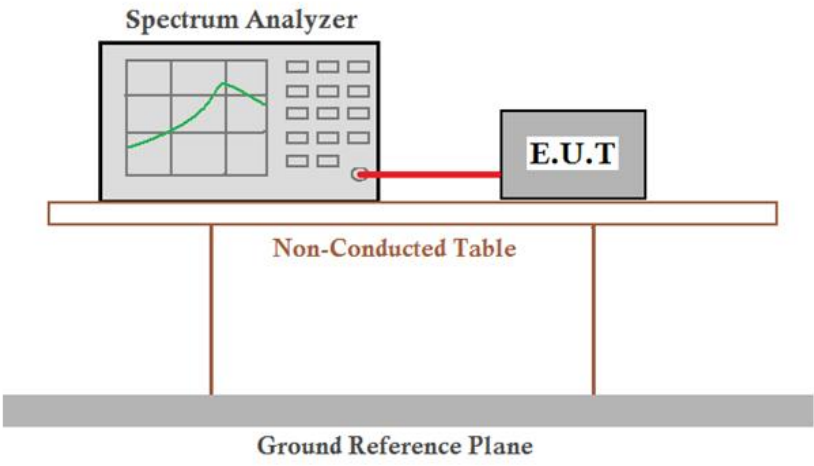
3.2 20dB Emission Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10: 2020 Section 6.9.2
Test Setup:	
Instruments Used:	Refer to section 2.9 for details
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the worst case of all modulation type.
Limit:	NA
Test Results:	Pass

The detailed test data see: **Appendix A**



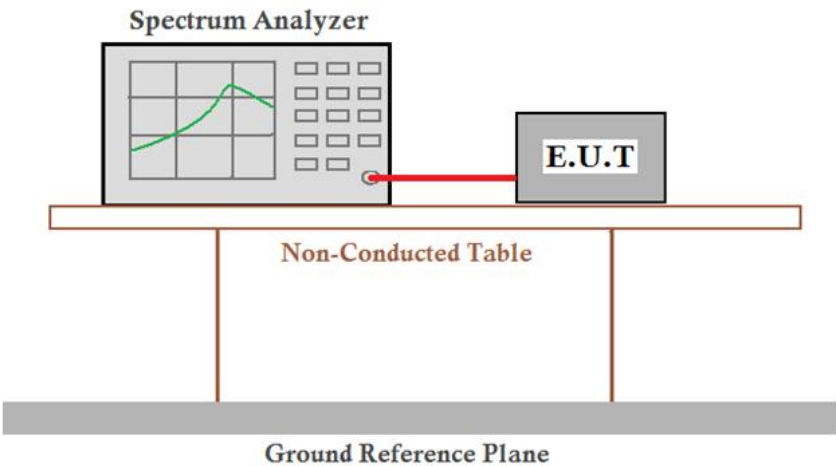
3.3 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10: 2020 Section 7.8.5
Test Setup:	
Test Instruments:	Refer to section 2.9 for details
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the worst case of all modulation type.
Limit:	(20.97dBm) 125mW
Test Results:	Pass

The detailed test data see: **Appendix B**



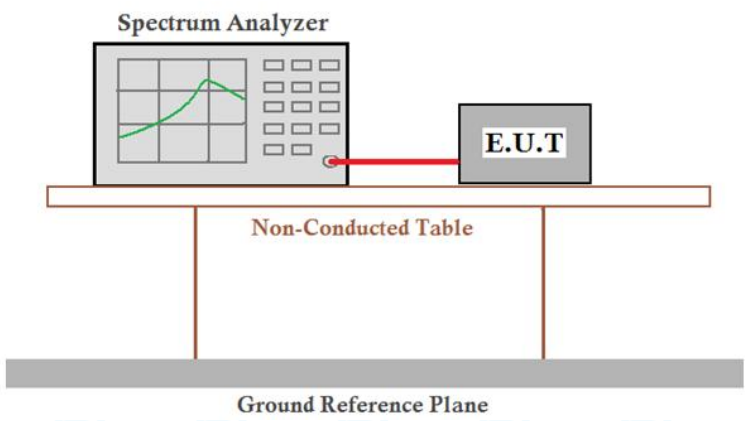
3.4 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10: 2020 Section 7.8.2
Test Setup:	
Test Instruments:	Refer to section 2.9 for details
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the worst case of all modulation type.
Limit:	2/3 of the 20dB bandwidth
	Remark: the transmission power is less than 0.125W.
Test Results:	Pass

The detailed test data see: **Appendix C**



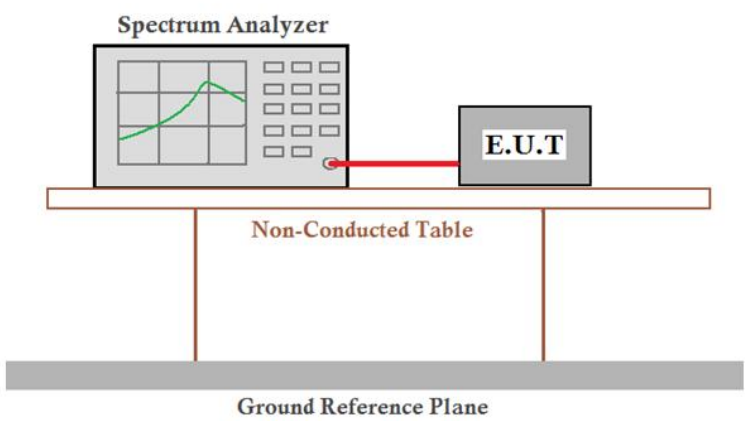
3.5 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10: 2020 Section 7.8.4
Test Setup:	
Instruments Used:	Refer to section 2.9 for details
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Limit:	0.4 Second
Test Results:	Pass

The detailed test data see: **Appendix D**



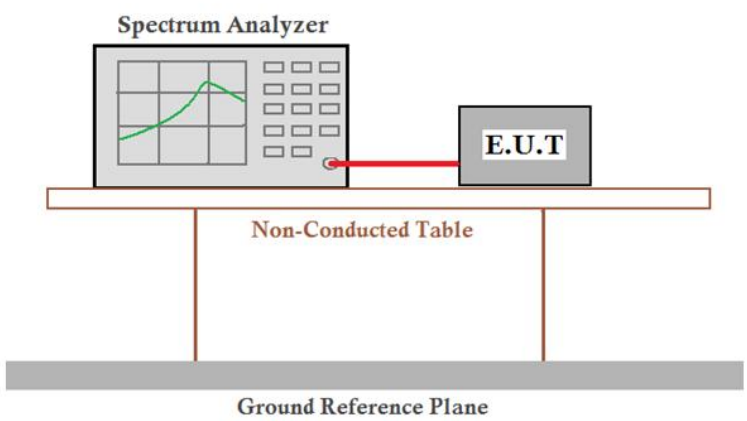
3.6 Hopping Channel Number

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10: 2020 Section 7.8.3
Test Setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, showing a frequency spectrum on its screen, is connected to an Equipment Under Test (E.U.T.) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a Non-Conducted Table. This table is supported by two vertical legs, which are connected to a Ground Reference Plane, represented by a thick grey bar at the bottom of the diagram.
Instruments Used:	Refer to section 2.9 for details
Test Mode:	Hopping transmitting with all kind of modulation
Limit:	At least 15 channels
Test Results:	Pass

The detailed test data see: **Appendix E**



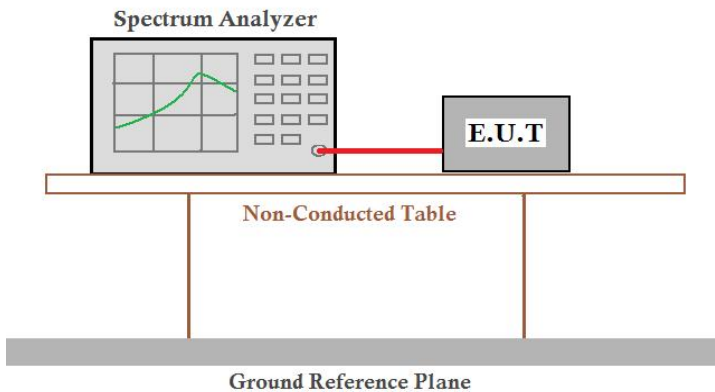
3.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2020 Section 7.8.7.2
Test Setup:	
Instruments Used:	Refer to section 2.9 for details
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the worst case of all modulation type.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

The detailed test data see: **Appendix F**



3.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2020 Section 7.8.7.1
Test Setup:	
Instruments Used:	Refer to section 2.9 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the worst case of all modulation type.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

The detailed test data see: **Appendix F**



3.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2020 Section 7.8.8 /6.3 / 6.4/ 6.5 /6.6				
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz (DC $\geq$ 0.98) $\geq$ 1/T (DC<0.98)	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				

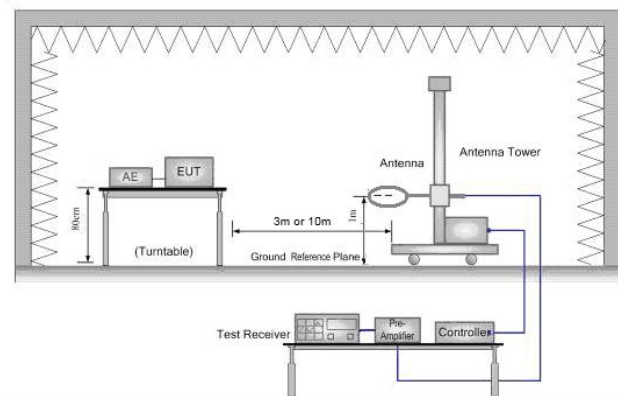
**Test Setup:**

Figure 1. Below 30MHz

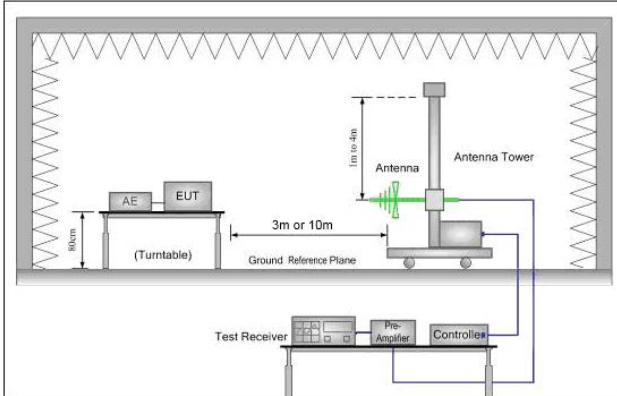


Figure 2. 30MHz to 1GHz

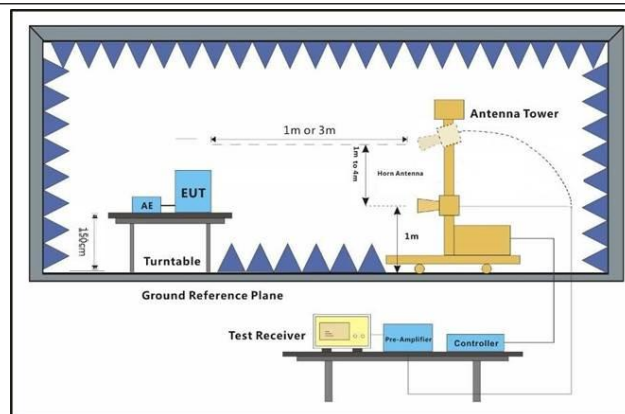


Figure 3. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.

Dongguan DN Testing Co., Ltd.

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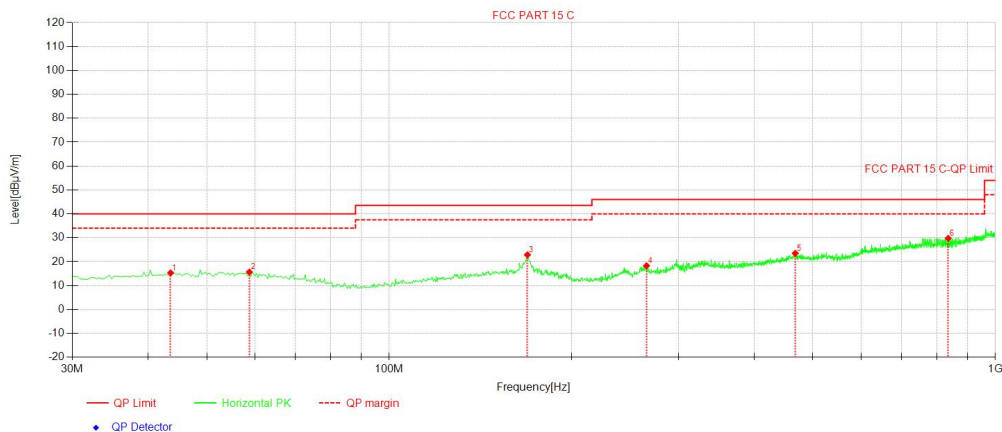


Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge+Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode. Through Pre-scan, find the DH5 of data type is the worst case of All modulation type.
Instruments Used:	Refer to section 2.9 for details
Test Results:	Pass

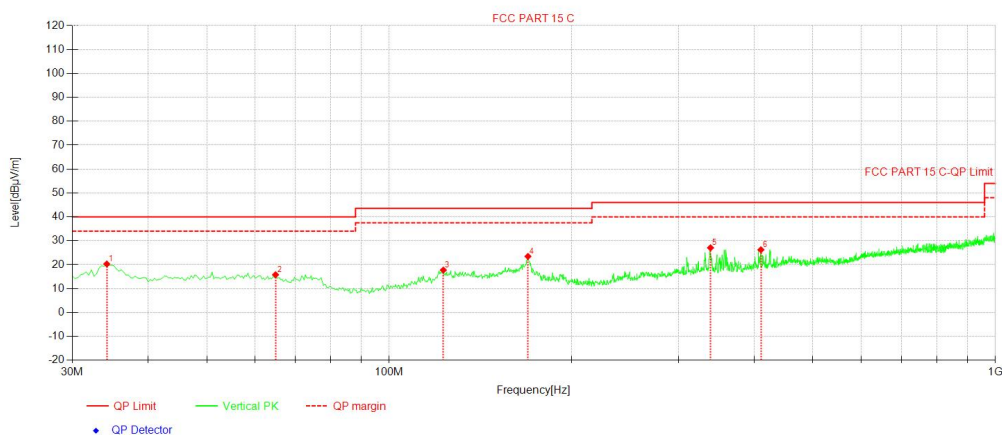


Test data

For 30-1000MHz



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	43.58	23.66	-8.36	15.30	40.00	24.70	200	183	PK	H
2	58.79	24.28	-8.63	15.65	40.00	24.35	200	227	PK	H
3	169.08	31.11	-8.24	22.87	43.50	20.63	200	0	PK	H
4	265.79	26.58	-8.29	18.29	46.00	27.71	100	298	PK	H
5	467.62	25.86	-2.37	23.49	46.00	22.51	200	327	PK	H
6	836.02	25.21	4.55	29.76	46.00	16.24	200	351	PK	H

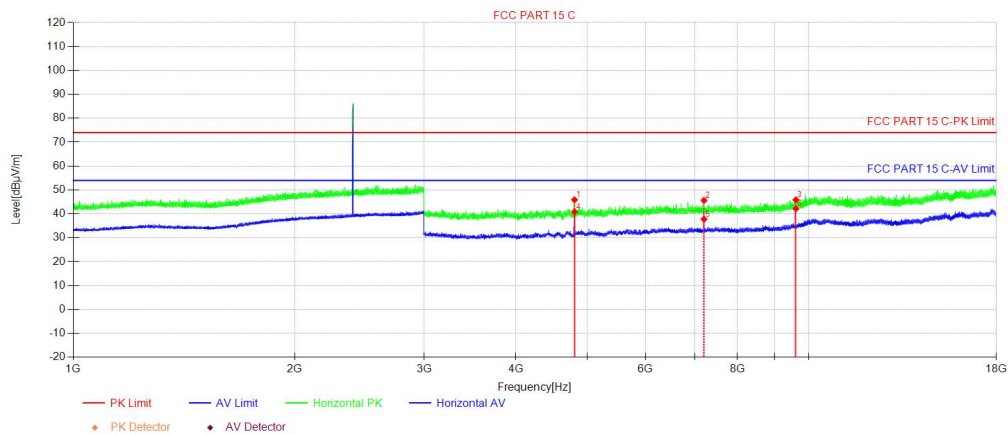


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	34.20	29.66	-9.39	20.27	40.00	19.73	100	48	PK	V
2	64.93	25.09	-9.31	15.78	40.00	24.22	100	78	PK	V
3	122.83	27.77	-10.04	17.73	43.50	25.77	100	116	PK	V
4	169.40	31.72	-8.26	23.46	43.50	20.04	100	294	PK	V
5	338.89	32.96	-5.90	27.06	46.00	18.94	100	202	PK	V
6	410.37	30.35	-4.12	26.23	46.00	19.77	100	197	PK	V

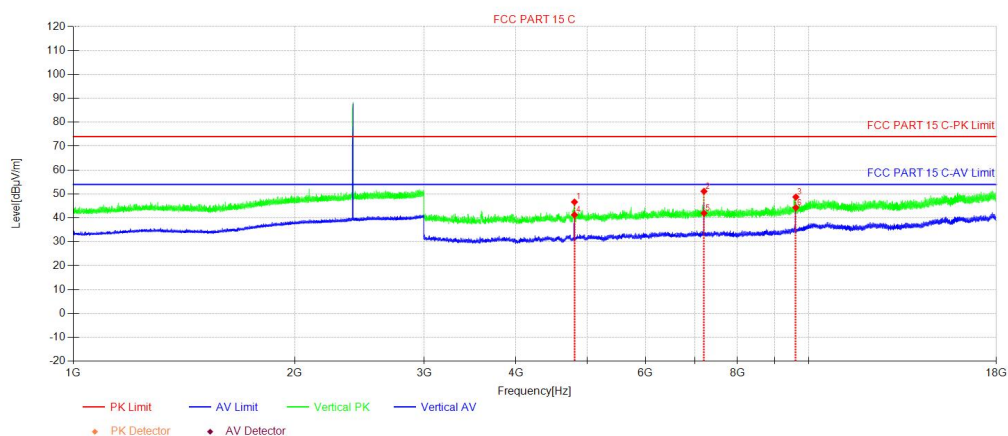


For above 1GHz

DH5 2402MHz



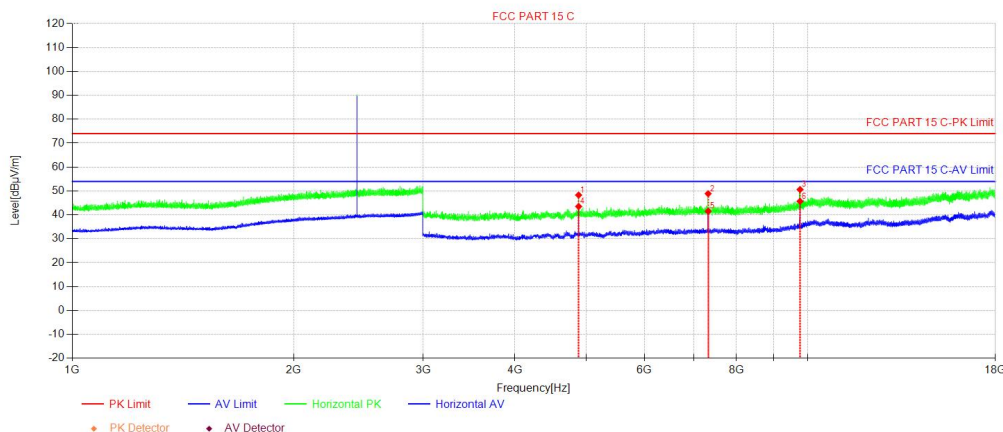
NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4804.00	50.49	-4.61	45.88	74.00	28.12	150	301	PK	H
2	7206.00	47.40	-1.76	45.64	74.00	28.36	150	276	PK	H
3	9608.00	44.98	0.88	45.86	74.00	28.14	150	199	PK	H
4	4804.00	45.41	-4.61	40.80	54.00	13.20	150	250	AV	H
5	7206.00	39.54	-1.76	37.78	54.00	16.22	150	276	AV	H
6	9608.00	41.26	0.88	42.14	54.00	11.86	150	226	AV	H



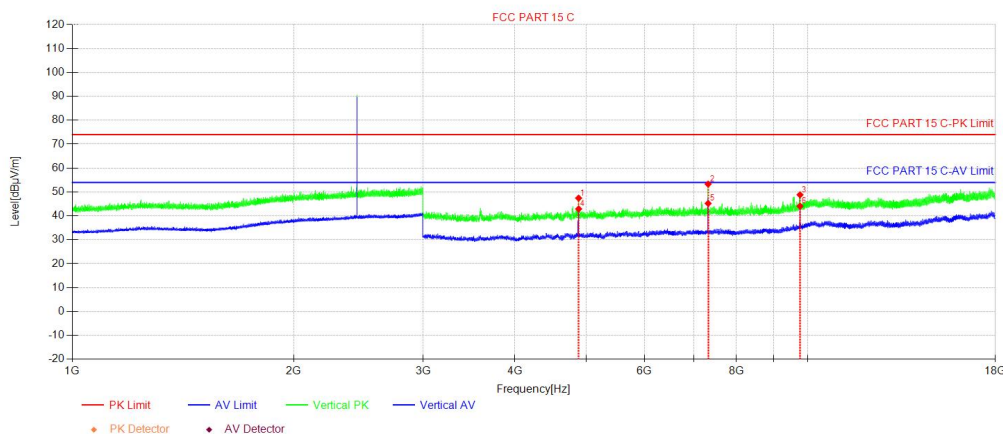
NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4804.00	51.24	-4.61	46.63	74.00	27.37	150	176	PK	V
2	7206.00	52.86	-1.76	51.10	74.00	22.90	150	254	PK	V
3	9608.00	47.85	0.88	48.73	74.00	25.27	150	151	PK	V
4	4804.00	45.87	-4.61	41.26	54.00	12.74	150	176	AV	V
5	7206.00	43.70	-1.76	41.94	54.00	12.06	150	254	AV	V
6	9608.00	43.43	0.88	44.31	54.00	9.69	150	176	AV	V



DH5 2441MHz



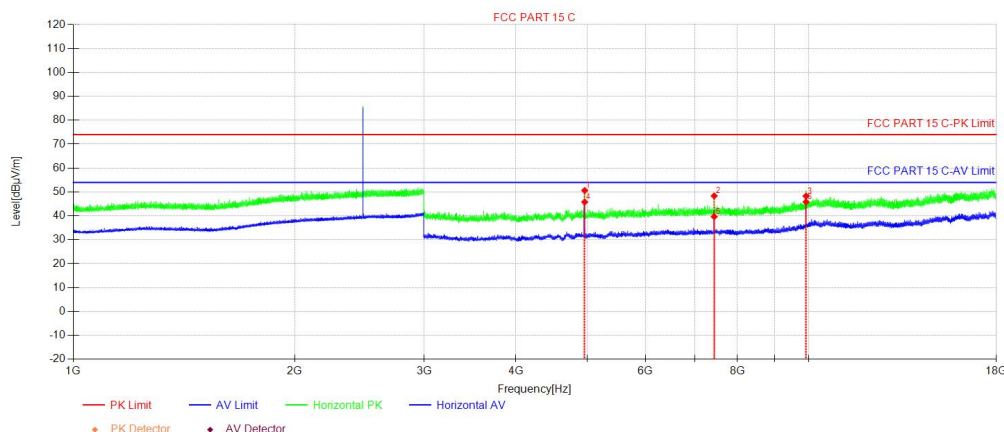
NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4882.00	53.00	-4.72	48.28	74.00	25.72	150	251	PK	H
2	7323.00	50.35	-1.49	48.86	74.00	25.14	150	279	PK	H
3	9764.00	48.95	1.64	50.59	74.00	23.41	150	202	PK	H
4	4882.00	48.23	-4.72	43.51	54.00	10.49	150	251	AV	H
5	7323.00	42.99	-1.49	41.50	54.00	12.50	150	279	AV	H
6	9764.00	44.04	1.64	45.68	54.00	8.32	150	251	AV	H



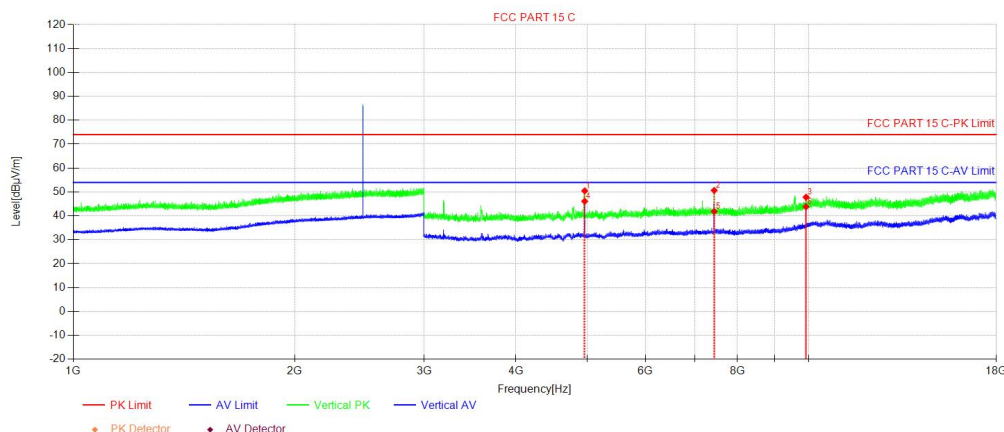
NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4882.00	52.15	-4.72	47.43	74.00	26.57	150	253	PK	V
2	7323.00	54.78	-1.49	53.29	74.00	20.71	150	253	PK	V
3	9764.00	47.17	1.64	48.81	74.00	25.19	150	154	PK	V
4	4882.00	47.62	-4.72	42.90	54.00	11.10	150	253	AV	V
5	7323.00	46.69	-1.49	45.20	54.00	8.80	150	253	AV	V
6	9764.00	42.43	1.64	44.07	54.00	9.93	150	127	AV	V



DH5 2480MHz



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4960.00	55.48	-4.86	50.62	74.00	23.38	150	254	PK	H
2	7440.00	49.69	-1.34	48.35	74.00	25.65	150	228	PK	H
3	9920.00	46.02	2.27	48.29	74.00	25.71	150	152	PK	H
4	4960.00	50.66	-4.86	45.80	54.00	8.20	150	254	AV	H
5	7440.00	41.01	-1.34	39.67	54.00	14.33	150	228	AV	H
6	9920.00	43.55	2.27	45.82	54.00	8.18	150	152	AV	H



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4960.00	55.32	-4.86	50.46	74.00	23.54	150	149	PK	V
2	7440.00	52.00	-1.34	50.66	74.00	23.34	150	278	PK	V
3	9920.00	45.55	2.27	47.82	74.00	26.18	150	254	PK	V
4	4960.00	50.97	-4.86	46.11	54.00	7.89	150	254	AV	V
5	7440.00	43.19	-1.34	41.85	54.00	12.15	150	278	AV	V
6	9920.00	41.52	2.27	43.79	54.00	10.21	150	126	AV	V



Note:

1. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including Ant.Factor and the Cable Factor etc.), The basic equation is as follows:
$$\text{Result Level} = \text{Reading Level} + \text{Correct Factor}(\text{including Ant.Factor, Cable Factor etc.})$$
2. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
3. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be report.
4. All channels had been pre-test, DH5 is the worst case, only the worst case was reported.



3.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2020 Section 7.8.8 /6.3 / 6.6		
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

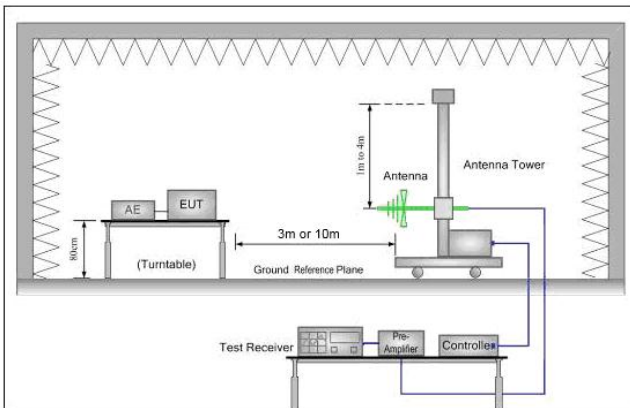


Figure 1. 30MHz to 1GHz

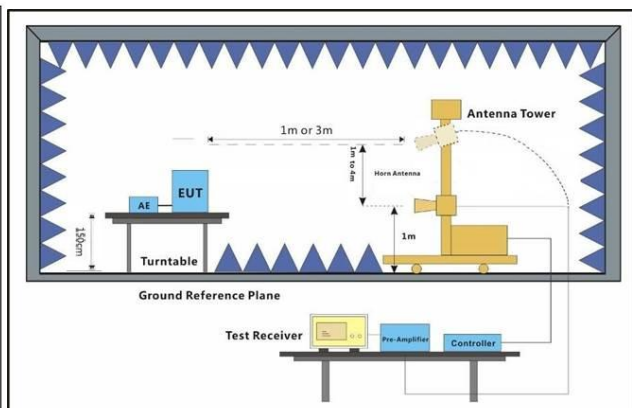


Figure 2. Above 1 GHz

Test Procedure:	- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel - Test the EUT in the lowest channel , the Highest channel - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz

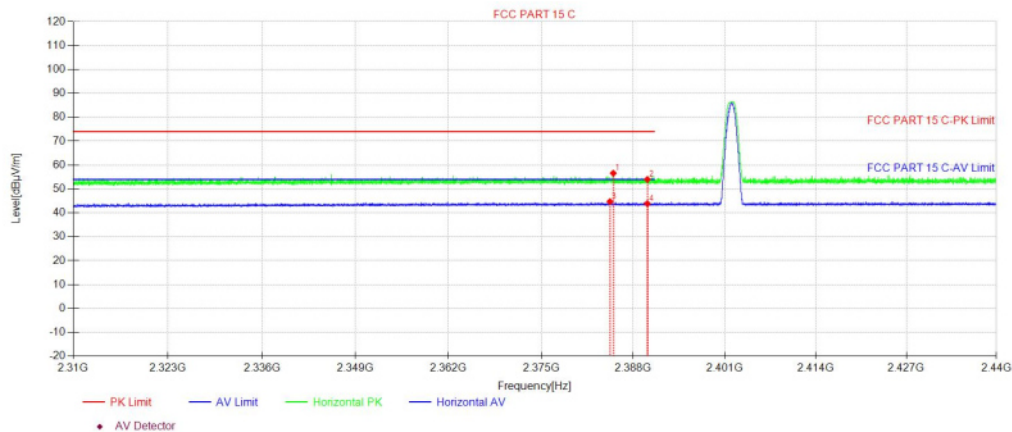


	• RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Transmitting mode.
Final Test Mode:	Pretest the EUT Transmitting mode. Through Pre-scan, find the DH5 of data type is the worst case of all modulation type. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 2.9 for details
Test Results:	Pass

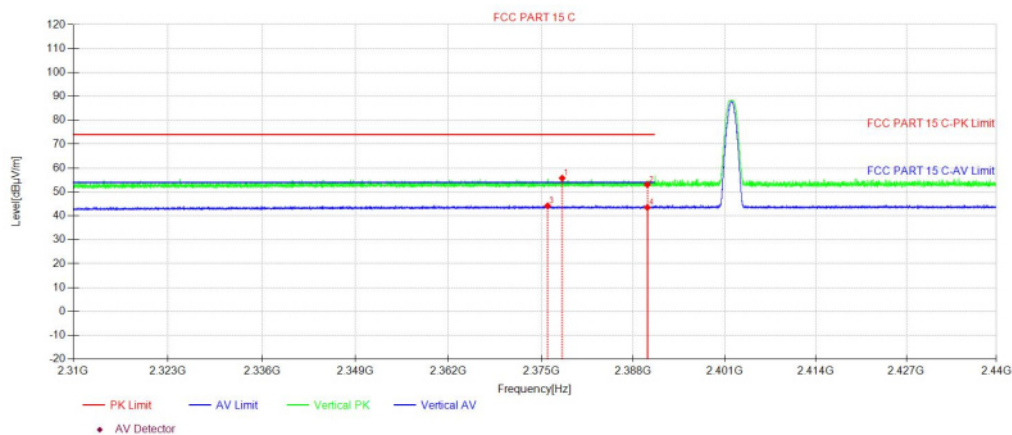


Test Date

DH5 2402MHz



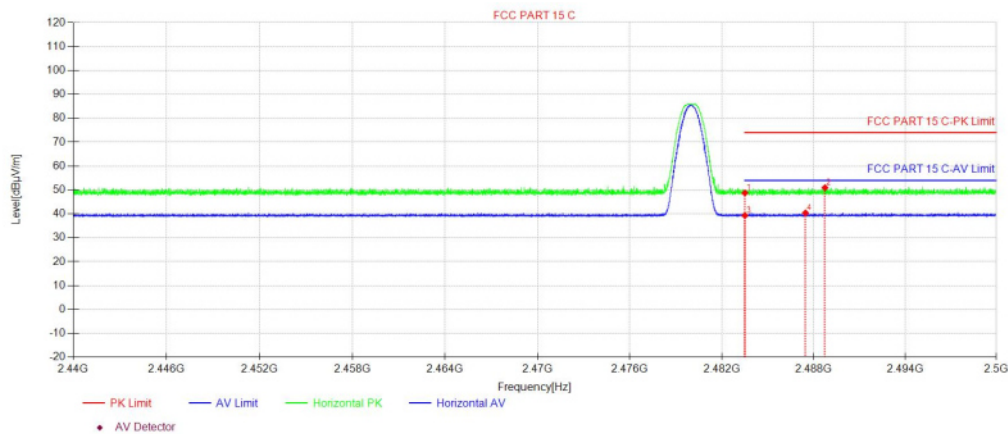
NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	2385.19	57.41	-0.81	56.60	74.00	17.40	150	311	PK	H
2	2390.01	54.79	-0.80	53.99	74.00	20.01	150	176	PK	H
3	2384.72	45.54	-0.82	44.72	54.00	9.28	150	357	AV	H
4	2390.01	44.68	-0.80	43.88	54.00	10.12	150	289	AV	H



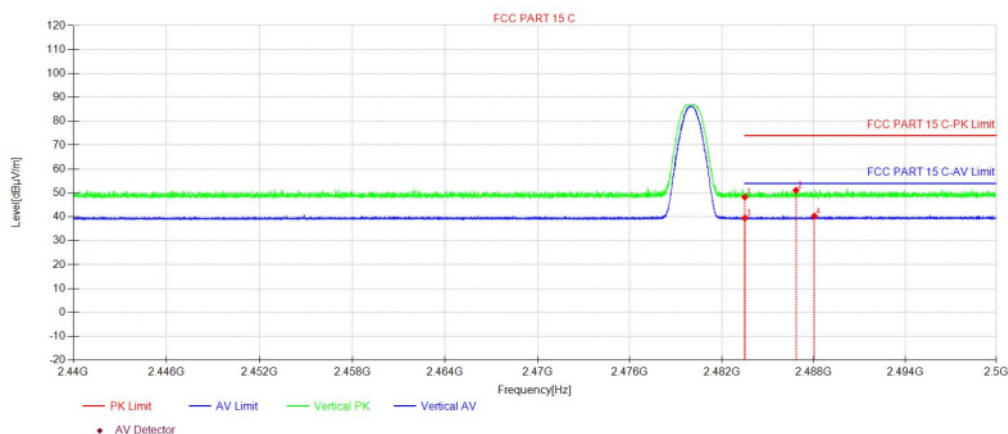
NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	2377.97	56.61	-0.84	55.77	74.00	18.23	150	304	PK	V
2	2390.01	53.82	-0.80	53.02	74.00	20.98	150	47	PK	V
3	2375.92	45.03	-0.85	44.18	54.00	9.82	150	360	AV	V
4	2390.01	44.29	-0.80	43.49	54.00	10.51	150	204	AV	V



DH5 2480MHz



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	2483.51	49.03	-0.29	48.74	74.00	25.26	150	163	PK	H
2	2488.75	51.19	-0.25	50.94	74.00	23.06	150	196	PK	H
3	2483.51	39.60	-0.29	39.31	54.00	14.69	150	0	AV	H
4	2487.48	40.64	-0.26	40.38	54.00	13.62	150	220	AV	H



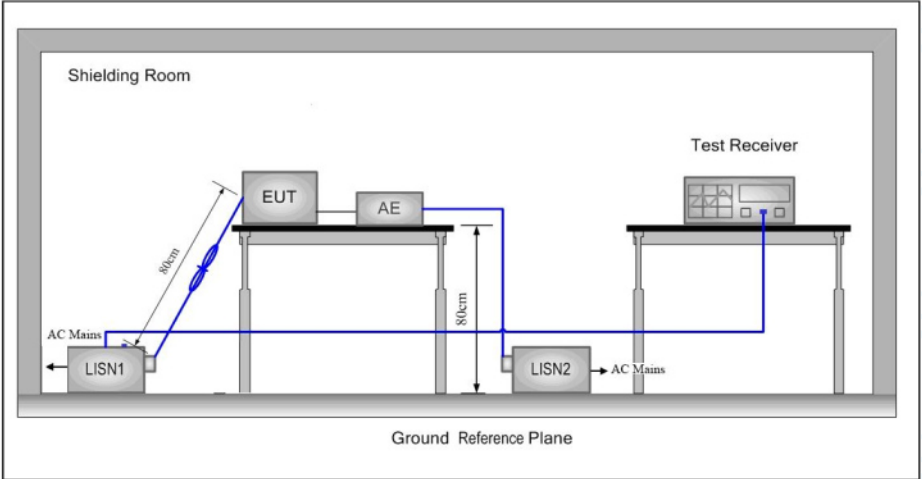
NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	2483.50	48.56	-0.29	48.27	74.00	25.73	150	319	PK	V
2	2486.85	51.36	-0.26	51.10	74.00	22.90	150	81	PK	V
3	2483.50	39.75	-0.29	39.46	54.00	14.54	150	91	AV	V
4	2488.06	40.60	-0.26	40.34	54.00	13.66	150	319	AV	V

Note:

1. All channels had been pre-test, DH5 is the worst case, only the worst case was reported
2. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including Ant.Factor and the Cable Factor etc.), The basic equation is as follows:
Result Level= Reading Level + Correct Factor(including Ant.Factor ,Cable Factor etc.)



3.11 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2020 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		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 Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear 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. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) 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 was bonded to the horizontal 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. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2020 on conducted measurement.		
Test Setup:			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.		
Final Test Mode:	Through Pre-scan, find the the worst case.		



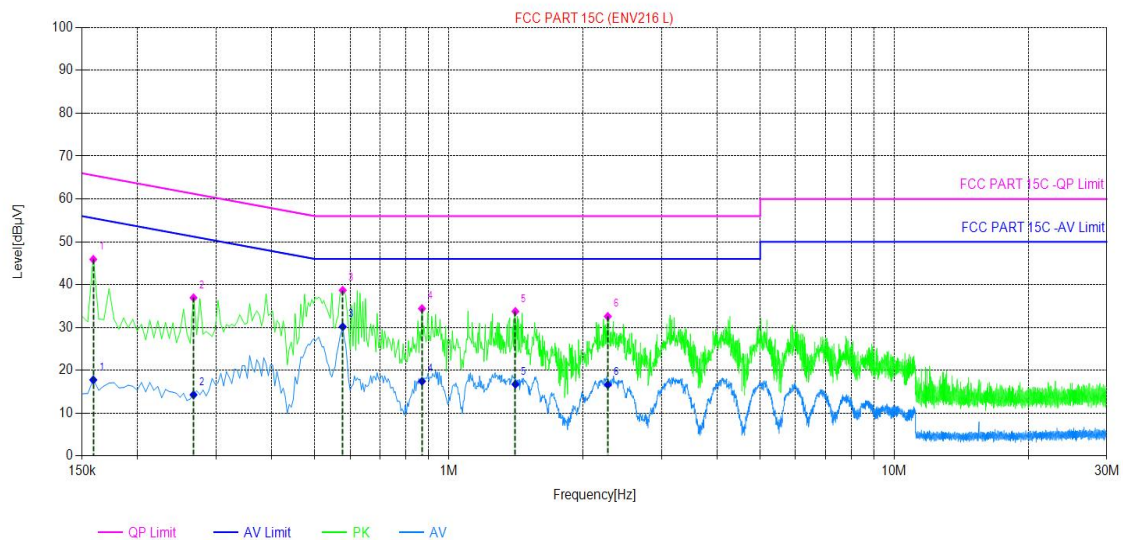
Instruments Used:	Refer to section 2.9 for details
Test Results:	PASS

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

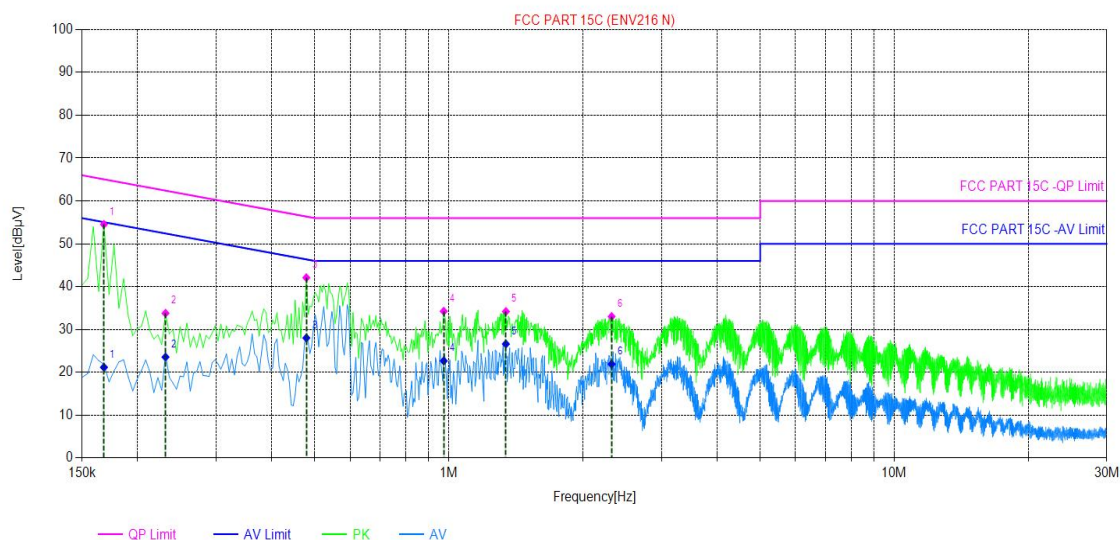
Live Line:



NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.159	9.90	45.91	65.52	19.61	17.78	55.52	37.74	PASS
2	0.267	9.91	36.95	61.21	24.26	14.30	51.21	36.91	PASS
3	0.5775	9.83	38.69	56.00	17.31	30.17	46.00	15.83	PASS
4	0.87	9.74	34.41	56.00	21.59	17.45	46.00	28.55	PASS
5	1.41	9.73	33.76	56.00	22.24	16.76	46.00	29.24	PASS
6	2.274	9.74	32.60	56.00	23.40	16.65	46.00	29.35	PASS



Neutral Line:



NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.168	9.82	54.54	65.06	10.52	21.19	55.06	33.87	PASS
2	0.231	9.87	33.79	62.41	28.62	23.58	52.41	28.83	PASS
3	0.4785	9.74	42.10	56.37	14.27	28.04	46.37	18.33	PASS
4	0.9735	9.70	34.26	56.00	21.74	22.69	46.00	23.31	PASS
5	1.3425	9.71	34.20	56.00	21.80	26.63	46.00	19.37	PASS
6	2.319	9.81	33.04	56.00	22.96	21.93	46.00	24.07	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including LISN Factor and the Cable Factor etc.), The basic equation is as follows:
Result Level= Reading Level + Correct Factor(including LISN Factor, Cable Factor etc.)



4 Appendix

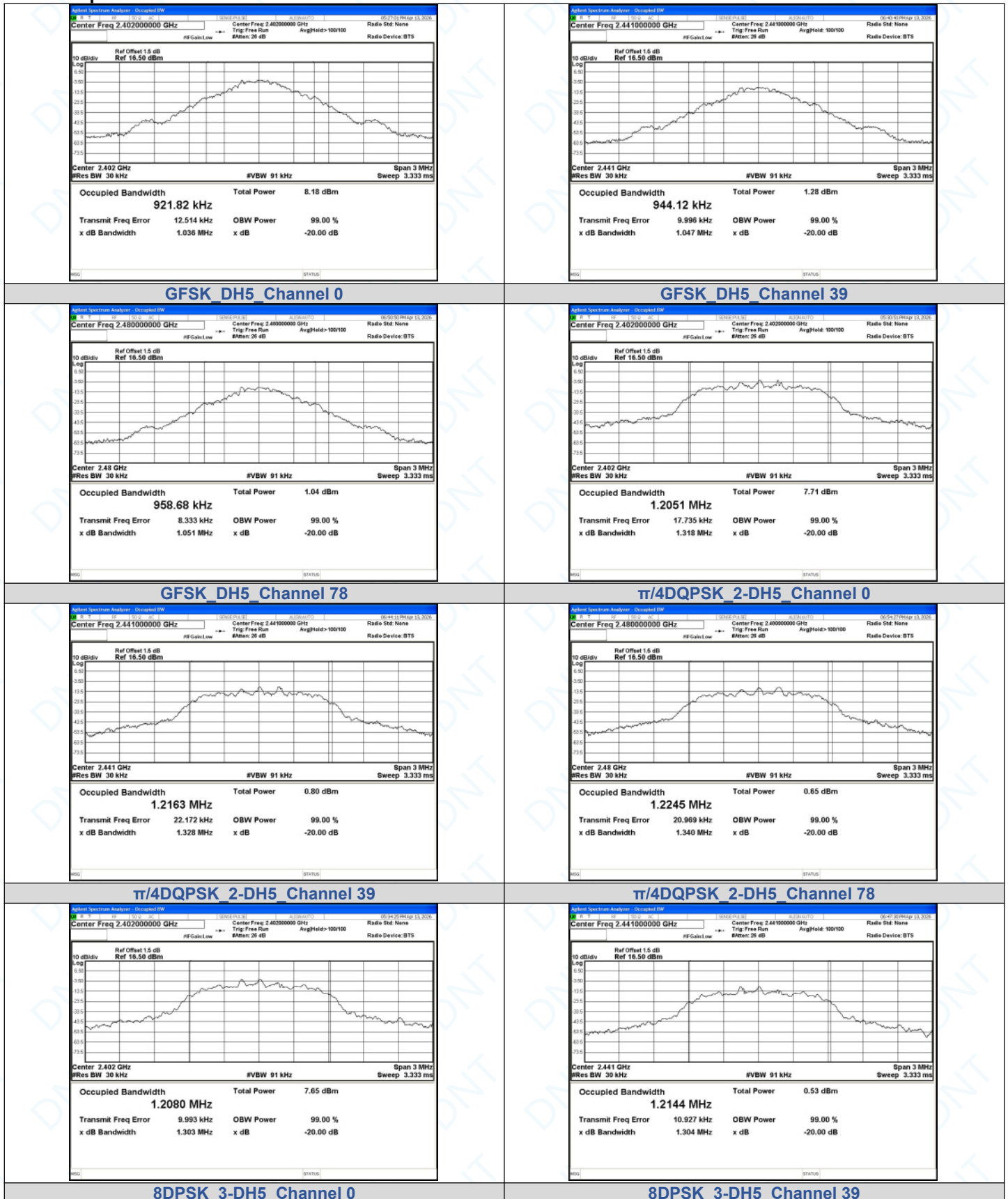
Appendix A: 20dB Emission Bandwidth

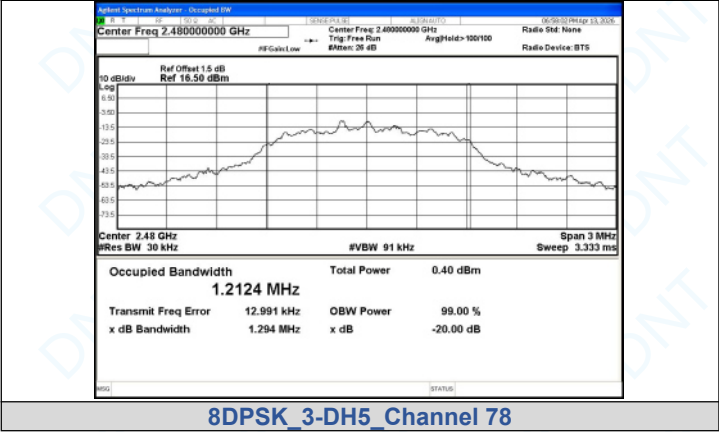
Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.036
	39	2441 MHz	1.047
	78	2480 MHz	1.051
π /4DQPSK	0	2402 MHz	1.318
	39	2441 MHz	1.328
	78	2480 MHz	1.340
8DPSK	0	2402 MHz	1.303
	39	2441 MHz	1.304
	78	2480 MHz	1.294



Test Graphs



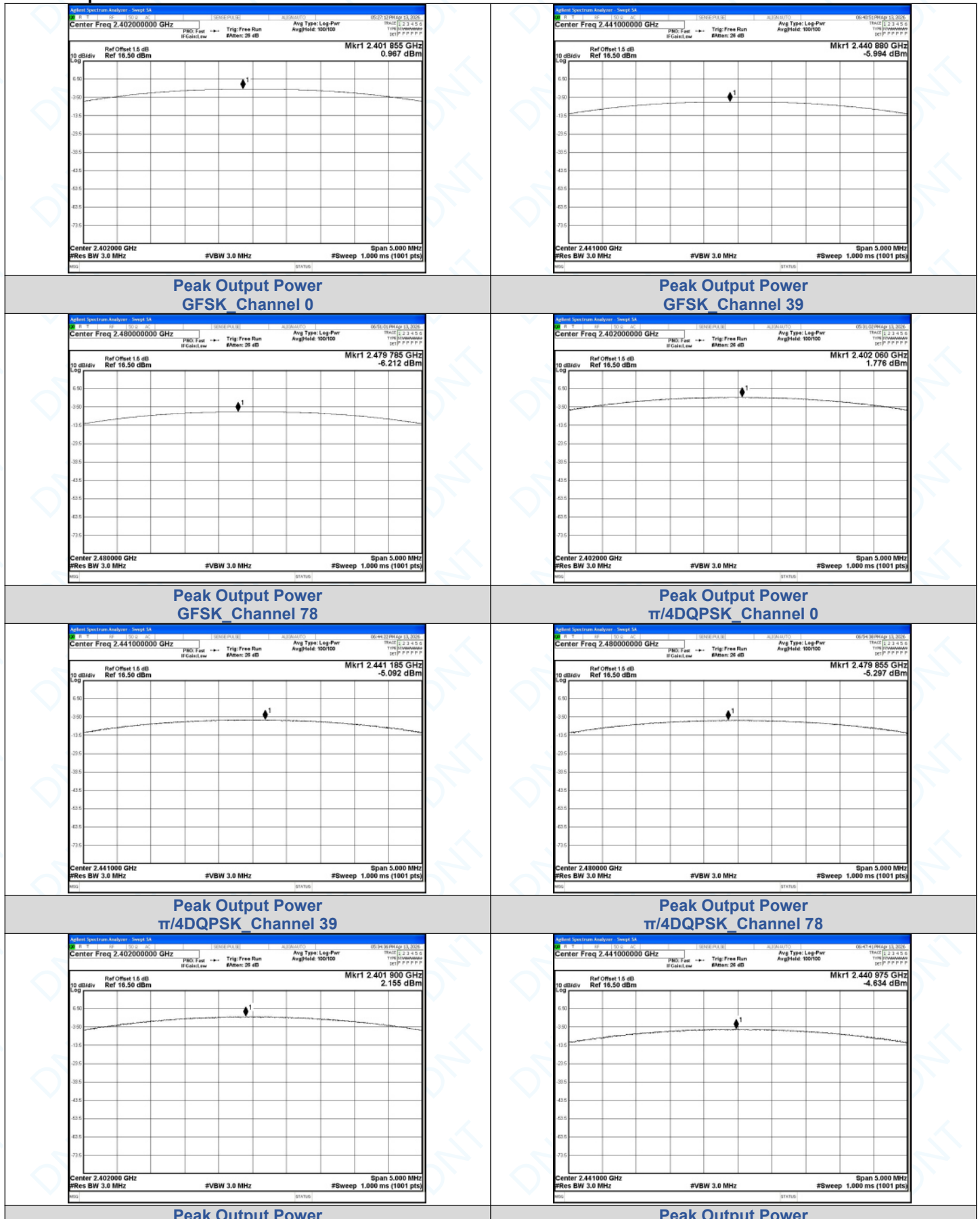


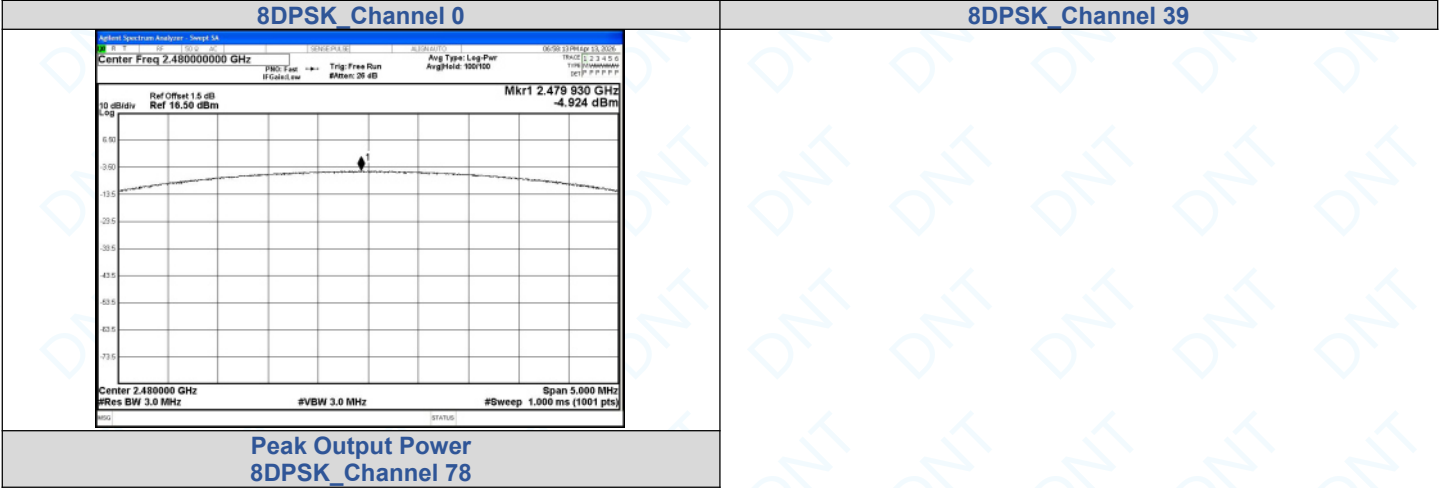
**Appendix B: Maximum conducted output power****Test Result**

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	DH5	0	0.97	1.25	≤20.97	PASS
		39	-5.99	0.25		PASS
		78	-6.21	0.24		PASS
π/4DQPSK	2-DH5	0	1.78	1.51		PASS
		39	-5.09	0.31		PASS
		78	-5.30	0.30		PASS
8DPSK	3-DH5	0	2.15	1.64		PASS
		39	-4.63	0.34		PASS
		78	-4.92	0.32		PASS



Test Graphs







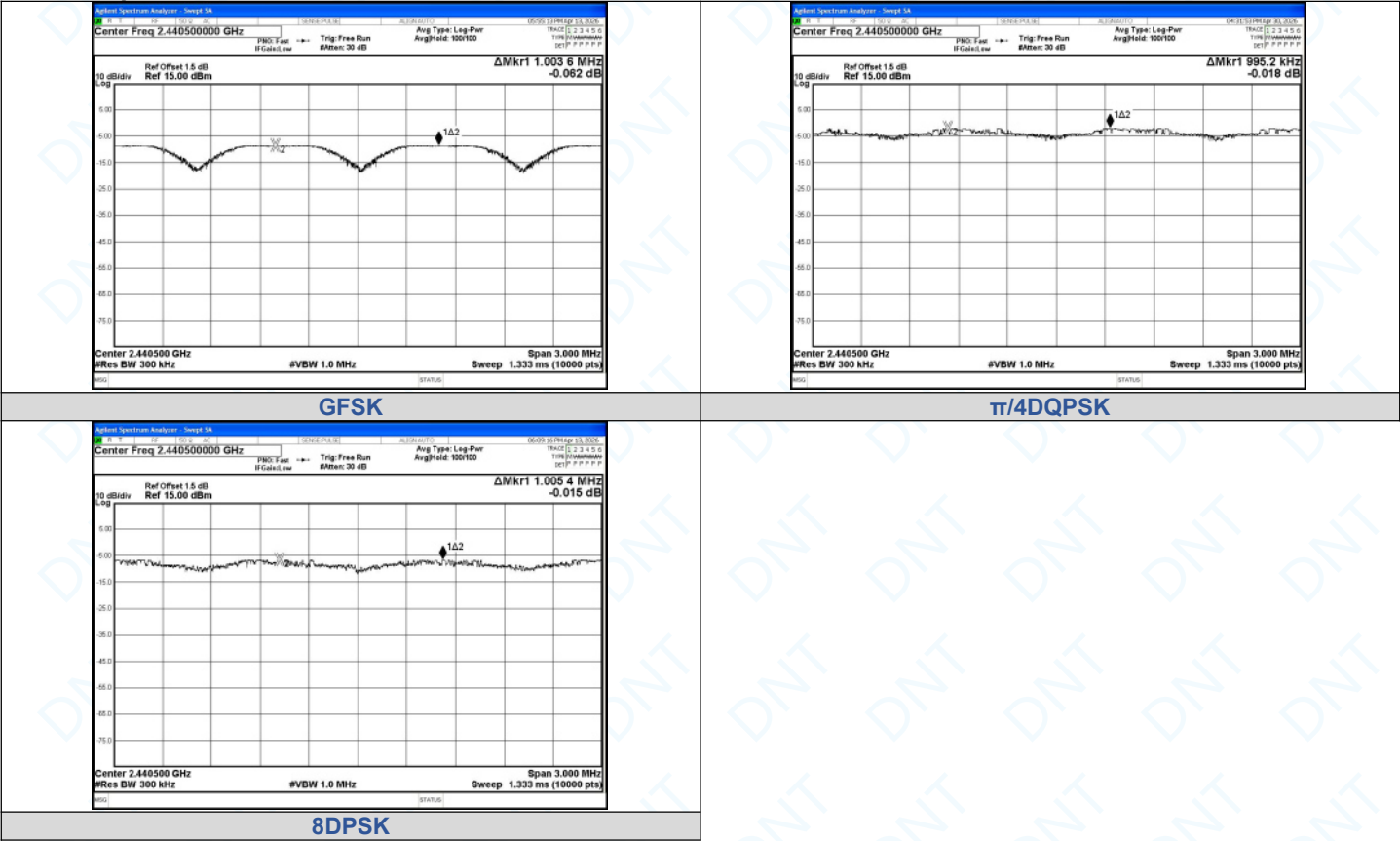
Appendix C: Carrier frequency separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Minimum Limit (MHz)	Result
GFSK	DH5	2439.9937	2440.9973	1.0036	0.99	PASS
$\pi/4$ DQPSK	2-DH5	2439.8341	2440.8293	0.9952	0.99	PASS
8DPSK	3-DH5	2440.0165	2441.0219	1.0054	0.99	PASS



Test Graphs





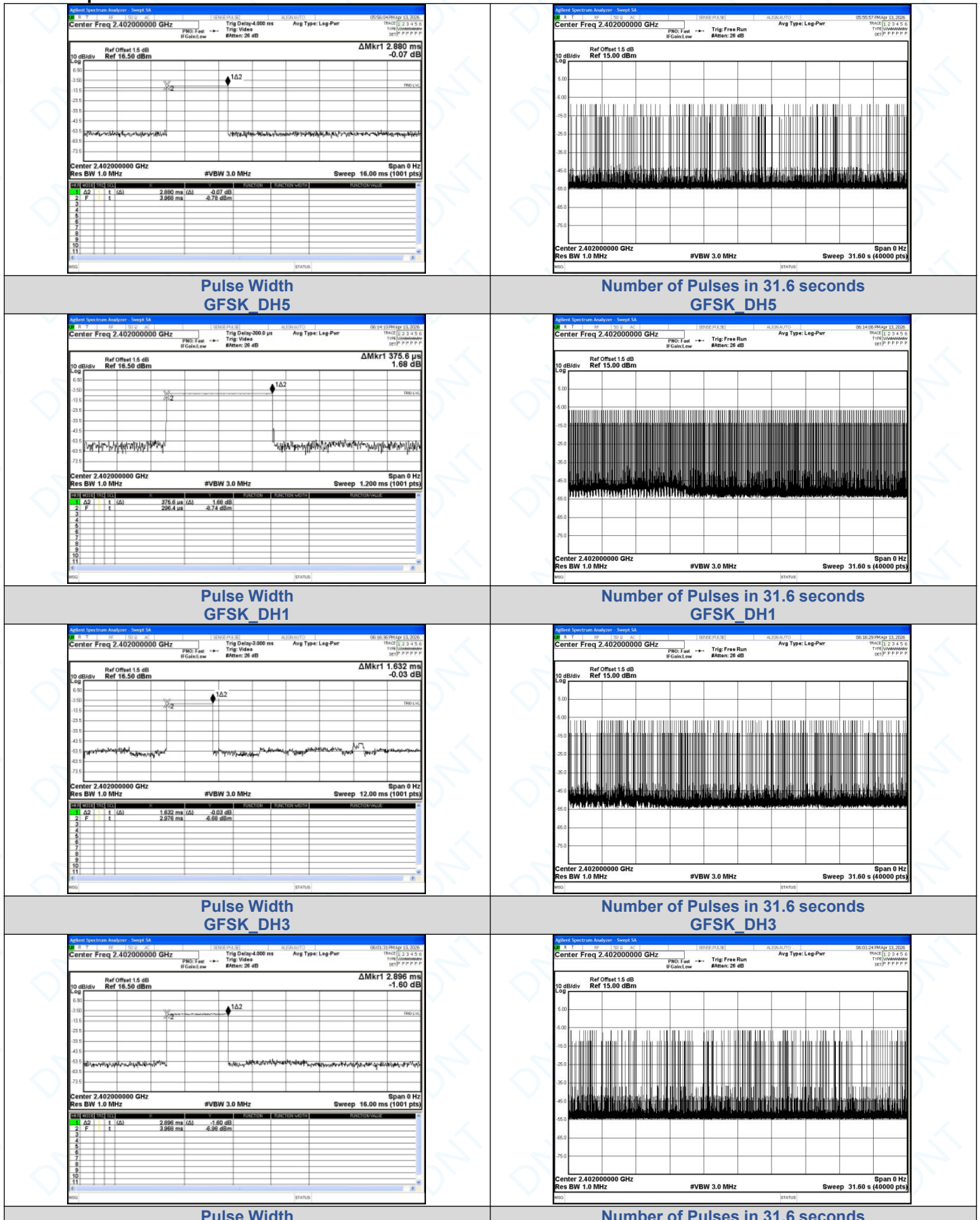
Appendix D: Dwell Time

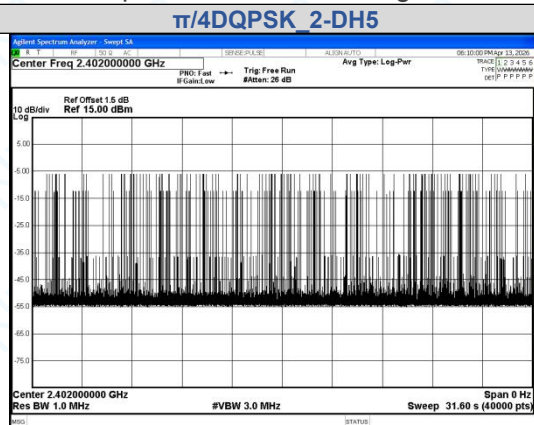
Test Result

Test Result							
Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	Hopping	2.880	104	299.52	< 400	PASS
	DH1		0.3756	319	119.82		PASS
	DH3		1.632	159	259.49		PASS
π/4DQPSK	2-DH5		2.896	110	318.56		PASS
8DPSK	3-DH5		2.896	116	335.94		PASS
π/4DQPSK	2-DH1		0.3852	319	122.88		PASS
	2-DH3		1.632	163	266.02		PASS
8DPSK	3-DH1		0.3864	313	120.94		PASS
	3-DH3		1.632	154	251.33		PASS
Note: Dwell time=Pulse time(ms)*Number of Pulses in 31.6 seconds							

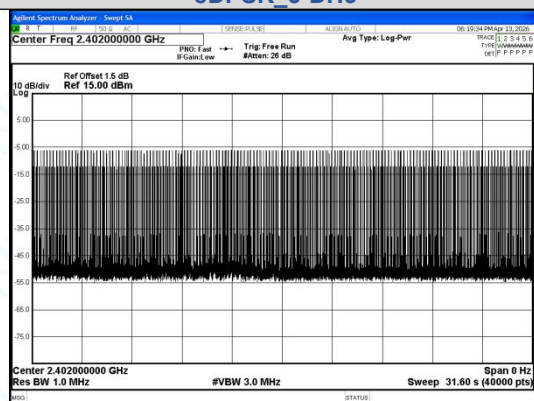


Test Graphs

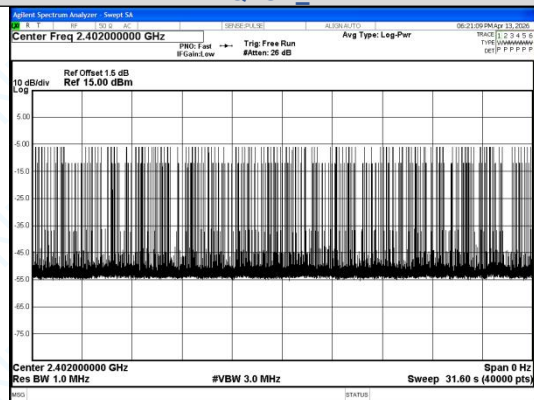




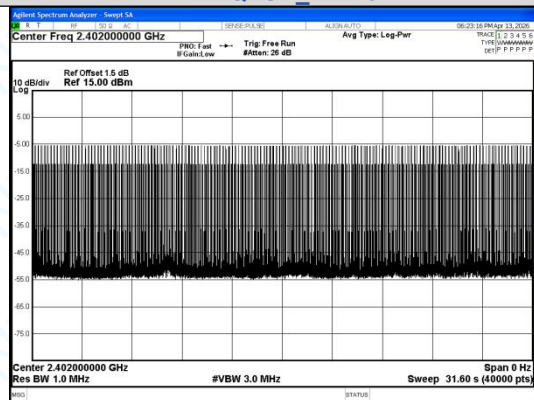
Number of Pulses in 31.6 seconds
8DPSK 3-DH5



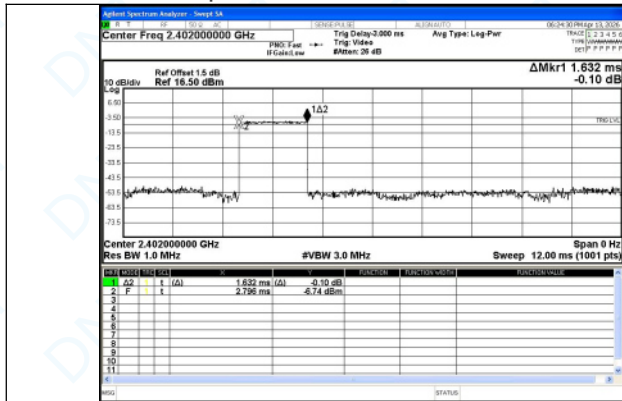
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK 2-DH1



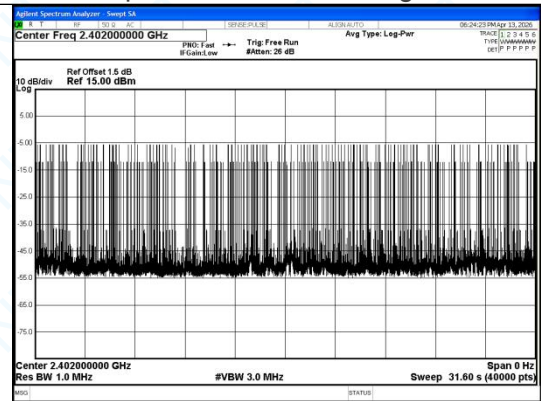
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK 2-DH3



Number of Pulses in 31.6 seconds
8DPSK 3-DH1



Pulse Width
8DPSK_3-DH3



Number of Pulses in 31.6 seconds
8DPSK_3-DH3



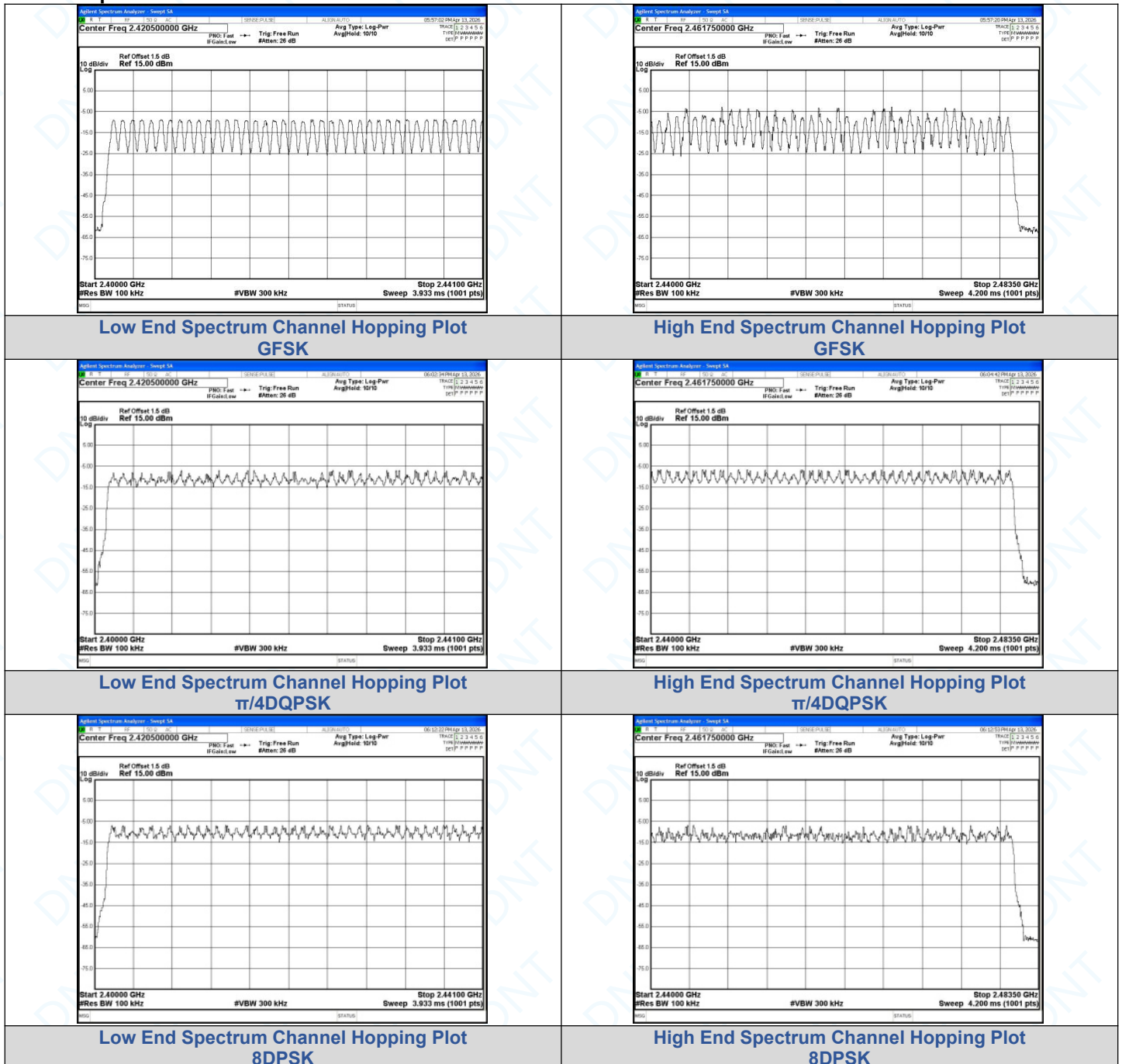
Appendix E: Number of hopping channels

Test Result

Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH5	79	15	PASS
$\pi/4$ DQPSK	2-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS



Test Graphs



**Appendix F: Band edge measurements&Conducted Spurious Emission****Test Result**

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	975.53	-65.803	-19.25	-46.553	PASS
			2384.35	-55.518	-19.25	-36.268	PASS
			2400.00	-49.962	-19.25	-30.712	PASS
			4804.05	-44.172	-19.25	-24.922	PASS
			7206.07	-51.458	-19.25	-32.208	PASS
			9608.10	-44.910	-19.25	-25.660	PASS
			14984.9	-60.739	-19.25	-41.489	PASS
			16724.5	-58.261	-19.25	-39.011	PASS
			20804.3	-56.116	-19.25	-36.866	PASS
			23973.9	-53.601	-19.25	-34.351	PASS
		39	24940.0	-52.590	-19.25	-33.340	PASS
			96.01	-55.191	-26.18	-29.011	PASS
			2536.90	-61.533	-26.18	-35.353	PASS
			4882.05	-45.994	-26.18	-19.814	PASS
			7323.07	-62.177	-26.18	-35.997	PASS
			9764.10	-51.433	-26.18	-25.253	PASS
			14996.5	-61.309	-26.18	-35.129	PASS
			16767.3	-57.707	-26.18	-31.527	PASS
			20907.0	-56.135	-26.18	-29.955	PASS
			23966.5	-53.513	-26.18	-27.333	PASS
			24079.1	-52.503	-26.18	-26.323	PASS
		78	96.01	-54.713	-26.37	-28.343	PASS
			1929.15	-39.232	-26.37	-12.862	PASS
			2483.50	-61.974	-26.37	-35.604	PASS
			4960.05	-45.895	-26.37	-19.524	PASS
			7439.85	-61.893	-26.37	-35.523	PASS
			9920.02	-54.124	-26.37	-27.754	PASS
			14926.4	-61.338	-26.37	-34.968	PASS
			16524.0	-57.769	-26.37	-31.399	PASS
			20825.5	-55.893	-26.37	-29.523	PASS
			23976.5	-53.751	-26.37	-27.381	PASS
$\pi/4$ DQPSK	2-DH5	0	24546.2	-53.833	-26.37	-27.463	PASS
			96.06	-65.135	-19.2	-45.935	PASS
			2384.50	-56.819	-19.2	-37.619	PASS
			2400.00	-51.120	-19.2	-31.920	PASS
			4804.05	-44.950	-19.2	-25.750	PASS
			7206.00	-52.802	-19.2	-33.602	PASS
			9608.02	-44.808	-19.2	-25.608	PASS
			13793.4	-60.724	-19.2	-41.524	PASS
			16324.6	-58.121	-19.2	-38.921	PASS
			20819.3	-56.069	-19.2	-36.868	PASS
		39	23956.3	-52.476	-19.2	-33.276	PASS
			24908.2	-53.069	-19.2	-33.869	PASS
			96.03	-54.093	-26.12	-27.973	PASS
			1938.95	-36.606	-26.12	-10.486	PASS
			4882.05	-48.710	-26.12	-22.590	PASS



			7323.30	-63.108	-26.12	-36.989	PASS
			9764.02	-50.260	-26.12	-24.140	PASS
			14990.3	-60.695	-26.12	-34.575	PASS
			16565.8	-58.227	-26.12	-32.107	PASS
			20905.1	-55.491	-26.12	-29.371	PASS
			23989.4	-52.505	-26.12	-26.385	PASS
			24109.0	-53.435	-26.12	-27.315	PASS
			96.01	-54.730	-26.5	-28.230	PASS
		78	1934.85	-32.515	-26.5	-6.015	PASS
			2483.50	-62.186	-26.5	-35.686	PASS
			4960.05	-46.958	-26.5	-20.458	PASS
			6322.88	-63.849	-26.5	-37.349	PASS
			7440.30	-64.611	-26.5	-38.111	PASS
			9920.02	-53.716	-26.5	-27.216	PASS
			13775.0	-61.280	-26.5	-34.780	PASS
			16570.7	-58.471	-26.5	-31.971	PASS
			20788.9	-56.002	-26.5	-29.502	PASS
			23966.5	-52.546	-26.5	-26.046	PASS
			24721.3	-53.020	-26.5	-26.520	PASS
		0	895.24	-65.456	-19.13	-46.326	PASS
			1921.15	-54.387	-19.13	-35.257	PASS
			2400.00	-52.120	-19.13	-32.990	PASS
			4804.05	-45.164	-19.13	-26.034	PASS
			7206.07	-54.525	-19.13	-35.395	PASS
			9608.02	-44.689	-19.13	-25.559	PASS
			13603.4	-60.829	-19.13	-41.699	PASS
			16499.3	-58.310	-19.13	-39.180	PASS
			20788.3	-55.979	-19.13	-36.849	PASS
			23949.1	-53.898	-19.13	-34.768	PASS
			24980.4	-52.788	-19.13	-33.658	PASS
		39	96.01	-55.342	-26.14	-29.202	PASS
			1921.15	-38.495	-26.14	-12.355	PASS
			4882.05	-45.962	-26.14	-19.822	PASS
			6041.02	-63.007	-26.14	-36.867	PASS
			7322.62	-64.439	-26.14	-38.299	PASS
			9764.10	-51.534	-26.14	-25.394	PASS
			13819.1	-60.862	-26.14	-34.722	PASS
			16501.7	-58.051	-26.14	-31.911	PASS
			20271.6	-55.374	-26.14	-29.234	PASS
			23992.1	-53.592	-26.14	-27.452	PASS
			24853.2	-52.866	-26.14	-26.726	PASS
8DPSK	3-DH5	78	96.03	-55.983	-26.48	-29.503	PASS
			1922.95	-36.336	-26.48	-9.856	PASS
			2483.50	-60.852	-26.48	-34.372	PASS
			4960.05	-47.114	-26.48	-20.634	PASS
			6033.75	-63.195	-26.48	-36.715	PASS
			7440.07	-63.804	-26.48	-37.324	PASS
			9920.02	-52.969	-26.48	-26.489	PASS
			14995.2	-59.823	-26.48	-33.343	PASS
			16523.7	-58.566	-26.48	-32.085	PASS
			20790.9	-55.680	-26.48	-29.200	PASS
			23888.2	-54.059	-26.48	-27.579	PASS
			24407.4	-53.792	-26.48	-27.312	PASS



Note: input compensation coefficient (dB)= Cable Loss (dB)