



FCC TEST REPORT

FCC ID: 2BHJR-NE11

Product	:	HTC Wireless Earphones 11
Model Name	:	HTC NE11
Brand	:	HTC
Report No.	:	PTC25032714608E-FC01
Prepared for		
Shenzhen xiaoxiang supply chain technology co., ltd		
Xinghe WORLD Twin Towers, No. 8 Yaxing Road, Nankeng Community, Bantian Street, Longgang District, Shenzhen West Tower 28th Floor 2801A-1		
Prepared by		
Precise Testing & Certification Co., Ltd.		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China		



1 TEST RESULT CERTIFICATION

Applicant's name : Shenzhen xiaoxiang supply chain technology co., ltd

Address : Xinghe WORLD Twin Towers, No. 8 Yaxing Road, Nankeng Community,
Bantian Street, Longgang District, Shenzhen West Tower 28th Floor
2801A-1

Manufacture's name : Shenzhen xiaoxiang supply chain technology co., ltd

Address : Xinghe WORLD Twin Towers, No. 8 Yaxing Road, Nankeng Community,
Bantian Street, Longgang District, Shenzhen West Tower 28th Floor
2801A-1

Product name : HTC Wireless Earphones 11

Model name : HTC NE11

Standards : FCC CFR47 Part 15 Section 15.247

Test procedure : ANSI C63.10:2013

Test Date : Apr. 16, 2025 to Apr. 23, 2025

Date of Issue : Apr. 23, 2025

Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

Jack Zhou / Engineer

Technical Manager:

Simon Pu / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.205(a) 15.209 15.247(d)	PASS
Band edge	15.247(d) 15.205(a)	PASS
Conduct Emission	15.207	PASS
20dB Bandwidth	15.247(a)(1)	PASS
Maximum Peak Output Power	15.247(b)(1)	PASS
Frequency Separation	15.247(a)(1)	PASS
Number of Hopping Frequency	15.247(a)(1)(iii)	PASS
Dwell time	15.247(a)(1)(iii)	PASS
Antenna Requirement	15.203	PASS

3 TEST FACILITY

Precise Testing & Certification Co., Ltd.

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A

FCC Designation Number. CN1219



4 General Information

4.1 General Description of E.U.T.

Product Name	:	HTC Wireless Earphones 11
Model Name	:	HTC NE11
Specification	:	BT 5.4 BDR+EDR
Operation Frequency	:	2402-2480MHz
Number of Channel	:	79 channels for BDR+EDR
Type of Modulation	:	GFSK, $\pi/4$ -DQPSK, 8DPSK For DSS
Antenna installation	:	Ceramic antenna
Antenna Gain	:	1.7 dBi
Rated Power Supply	:	Input: DC 5V 400mA Battery: Li-ion Battery :501012 Rated Voltage: 3.7V Rated Capacity:40mAh
Hardware Version	:	V1
Software Version	:	V1
Test sample No.	:	PTC25032714608E-1/3,PTC25032714608E-2/3,PTC25032714608E-3/3.



4.2 Test Mode

The EUT has been tested under its typical operating condition. Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting. Both the left and right headphones have been tested, and in the absence of special instructions, only the worst data, that of the left ear, is recorded.

The EUT has been associated with peripherals pursuant to ANSI C63.10-2013 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation (9 KHz to the 10th harmonics of the highest fundamental frequency or to 40 GHz, whichever is lower).

The EUT has been tested under TX operating condition.

This EUT is a FHSS system, were conducted to determine the final configuration from all possible combinations. We use software control the EUT, Let EUT hopping on and transmit with highest power, all the modes GFSK, $\pi/4$ -DQPSK, 8DPSK have been tested. 79 Channels are provided by EUT. The 3 channels of lower, medium and higher were chosen for test.

Channel List:

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



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Channel	Frequency(MHz)
0	2402
39	2441
78	2480



5 Equipment During Test

5.1 Equipments List

RF Conducted Test

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Last Calibration	Calibration Interval
MXG Signal Analyzer	Agilent	N9020A	SER MY5111038	10Hz-26.5GHz	Aug.15, 2024	1 Year
Coaxial Cable	CDS	79254	46107086	10Hz-30GHz	Aug.15, 2024	1 Year
Power Meter	Anritsu	ML2495A	0949003	300MHz-40GHz	Aug.15, 2024	1 Year
Power Sensor	Anritsu	MA2411B	0917017	300MHz-40GHz	Aug.15, 2024	1 Year
DC power Supply	Agilent	E3642A	MY52420017	0-8V,5A/0-20 ,2.5A	Aug.15, 2024	1 Year
Humidity Chamber	AISRY	ASR-HW2-1000	20230926003	-40°C-150°C	Feb.23 ,2025	1year
Test S/W	Tonscend	JS1120-3	/	/	/	/

Remark: 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.

Radiated Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Last Calibration	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESPI7	101671	9KHz-7GHz	Aug.15, 2024	1 Year
Loop Antenna	Schwarzbeck	FMZB 1519	192	9 KHz -30MHz	Nov.28, 2024	1 Year
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3355	25MHz-2GHz	Sep.10, 2024	1 Year
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	9KHz-1GHz	Mar.21, 2025	1 Year
Cable	IMRO	AK-9515E(9m)	Cable-L	9KHz-3GHz	Aug.15, 2024	1 Year
Spectrum Analyzer	Rohde&Schwarz	FSV40	6625-01-588-5515	9KHz-40GHz	Aug.15, 2024	1 Year



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Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1246	1GHz-18GHz	Dec.12, 2024	1 Year
Power Amplifier	ZHINAN	ZN3380C	15002	1GHz-26.5GHz	Aug.15, 2024	1 Year
Horn Antenna	SCHWARZBECK	BBHA 9170	9170-1066	15GHz-40GHz	Jul. 24, 2024	1 Year
Amplifier	SCHWARZBECK	BBV 9721	9721-205	18GHz-40GHz	Jul. 25, 2024	1 Year
Cable	H+S	CBL-26	N/A	1GHz-26.5GHz	Aug.15, 2024	1 Year
RF Cable	R&S	R204	R21X	1GHz-40GHz	Aug.15, 2024	1 Year
Test S/W	Tonscend	TS+	/	/	/	/

Conducted Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Calibration Date	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESCI3	101417	9KHz-3GHz	Aug.15, 2024	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	102453	9KHz-300MHz	Oct.30, 2024	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	101342	9KHz-300MHz	Oct.30, 2024	1 Year
Limiter	R&S	ESH3-Z2	0357.8810.54-102808-NB	0Hz-30MHz	Aug.15, 2024	1 Year
RF Switch	DIAMOND ANTENNA	CX-210	/	0.09MHz-6GHz	Mar. 21,2025	1 Year
Test S/W	Tonscend	JS32-CE	/	/	/	/



5.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	$\pm 1.0\text{dB}$
Power Spectral Density, conducted	$\pm 2.2\text{dB}$
Radio Frequency	$\pm 1 \times 10^{-6}$
Bandwidth	$\pm 1.5 \times 10^{-6}$
Time	$\pm 2\%$
Duty Cycle	$\pm 2\%$
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$
Conducted Emissions (150kHz~30MHz)	$\pm 3.64\text{dB}$
Radiated Emission(9kHz~30MHz)	$\pm 3.15\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$
Radiated Emission(1GHz~25GHz)	$\pm 4.74\text{dB}$



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5.3 Description of Support Units

Equipment	Model No.	Series No.
Adapter	Model: PS65B050Y3000S	N/A

6 Conducted Emission

Test Requirement:	:	FCC CFR 47 Part 15 Section 15.207
Test Method:	:	ANSI C63.10:2013
Test Result:	:	PASS
Frequency Range:	:	150kHz to 30MHz
Class/Severity:	:	Class B
Detector:	:	Peak for pre-scan (9kHz Resolution Bandwidth)

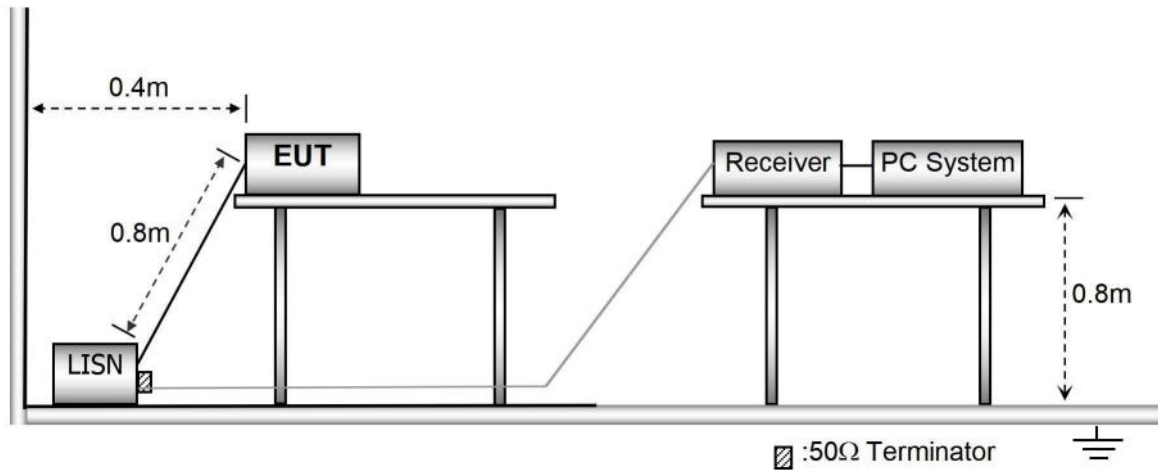
6.1 E.U.T. Operation

Operating Environment :

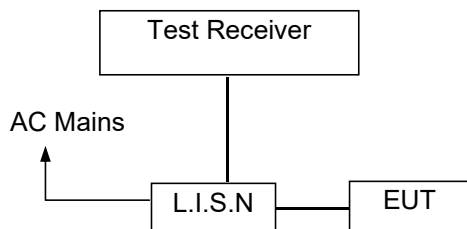
Temperature:	:	23.2°C
Humidity:	:	51 % RH
Atmospheric Pressure:	:	101.12 kPa
Test Voltage	:	AC 120V/60Hz

6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10: 2013



6.3 Test SET-UP (Block Diagram of Configuration)



6.4 Measurement Procedure:

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

6.5 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

6.6 Measurement Description

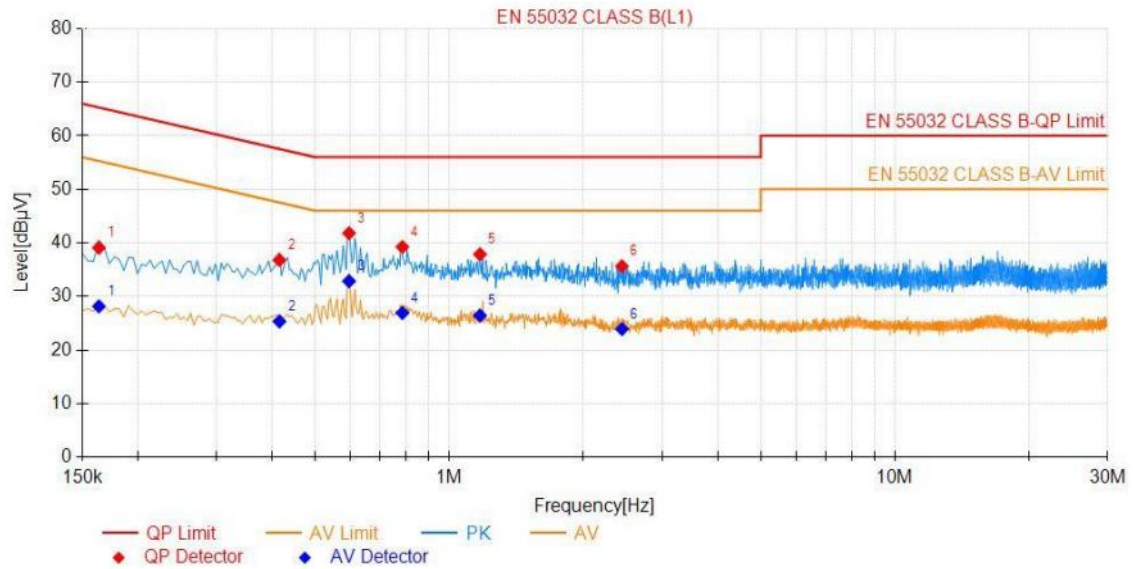
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.7 Conducted Emission Test Result

PASS.

Conducted emission at both 120V & 240V is assessed, and emission at 120V represents the worst case. All the modulation modes were tested the data of the worst mode (GFSK) are recorded in the following pages and the others modulation methods do not exceed the limits.

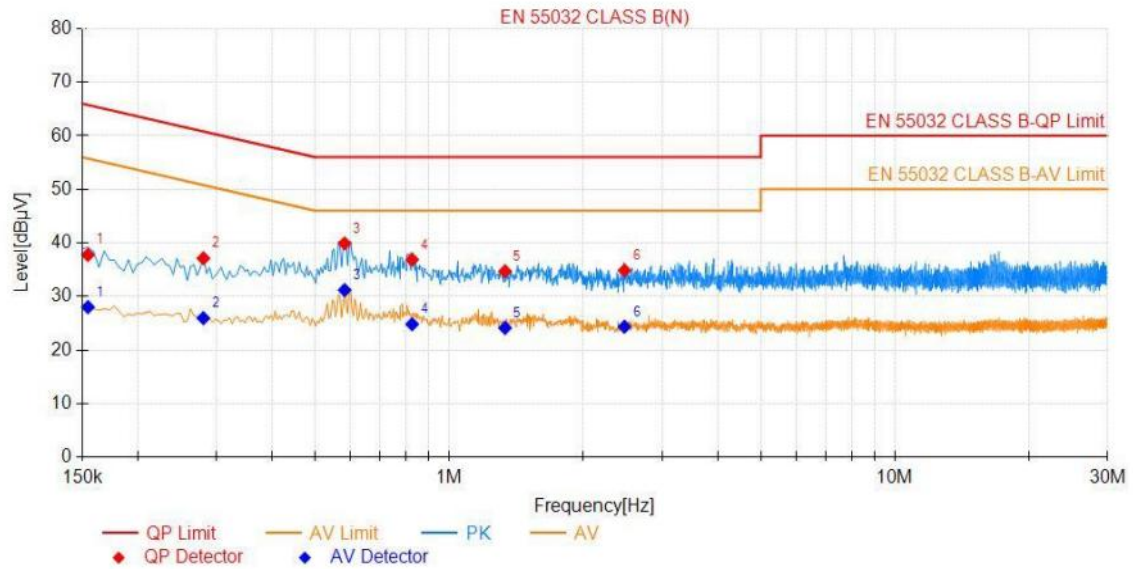
Line -120V/60Hz:



Final Data List

NO.	Freq. [MHz]	QP Reading	Factor [dB]	QP Value	QP Limit	QP Margin	AV Reading	AV Value	AV Limit	AV Margin	Verdict
1	0.164	19.54	19.56	39.10	65.28	26.18	8.58	28.14	55.28	27.14	PASS
2	0.416	17.07	19.73	36.80	57.54	20.74	5.60	25.33	47.54	22.21	PASS
3	0.596	22.09	19.72	41.81	56.00	14.19	13.14	32.86	46.00	13.14	PASS
4	0.785	19.64	19.60	39.24	56.00	16.76	7.31	26.91	46.00	19.09	PASS
5	1.172	18.20	19.65	37.85	56.00	18.15	6.77	26.42	46.00	19.58	PASS
6	2.441	16.19	19.44	35.63	56.00	20.37	4.47	23.91	46.00	22.09	PASS

Neutral -120V/60Hz:



Final Data List

NO.	Freq. [MHz]	QP Reading	Factor [dB]	QP Value	QP Limit	QP Margin	AV Reading	AV Value	AV Limit	AV Margin	Verdict
1	0.155	18.21	19.55	37.76	65.75	27.99	8.45	28.00	55.75	27.75	PASS
2	0.281	17.62	19.50	37.12	60.80	23.68	6.45	25.95	50.80	24.85	PASS
3	0.582	20.16	19.74	39.90	56.00	16.10	11.45	31.19	46.00	14.81	PASS
4	0.825	17.26	19.60	36.86	56.00	19.14	5.21	24.81	46.00	21.19	PASS
5	1.334	15.04	19.64	34.68	56.00	21.32	4.48	24.12	46.00	21.88	PASS
6	2.472	15.41	19.44	34.85	56.00	21.15	4.90	24.34	46.00	21.66	PASS



7 Radiated Spurious Emissions

Test Requirement : FCC CFR47 Part 15 Section 15.209 & 15.247
 Test Method : ANSI C63.10:2013
 Test Result : PASS
 Measurement Distance : 3m
 Limit : See the follow table

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

7.1 EUT Operation

Operating Environment :

Temperature : 24.5 °C
 Humidity : 55.5% RH
 Atmospheric Pressure : 101.3kPa
 Test Voltage : DC 3.7V

7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.





7.3 Spectrum Analyzer Setup

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

7.4 Test Procedure

1. The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10-2013.
2. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane. And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (From 1m to 4m) and turntable (from 0 degree to 360 degree) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Final measurement (Above 1GHz): The frequency range will be divided into different sub ranges depending of the frequency range of the used horn antenna. The EMI Receiver set to peak and average mode and a resolution bandwidth of 1MHz. The measurement will be performed in horizontal and vertical polarization of the measuring antenna and while rotating the EUT in its vertical axis in the range of 0 degree to 360 degree in order to have the antenna inside the cone of radiation.
7. Test Procedure of measurement (For Above 1GHz):
 - 1) Monitor the frequency range at horizontal polarization and move the antenna over all sides of the EUT(if necessary move the EUT to another orthogonal axis).
 - 2) Change the antenna polarization and repeat 1) with vertical polarization.
 - 3) Make a hardcopy of the spectrum.
 - 4) Measure the frequency of the detected emissions with a lower span and resolution bandwidth to increase the accuracy and note the frequency value.
 - 5) Change the analyser mode to Clear/ Write and found the cone of emission.
 - 6) Rotate and move the EUT, so that the measuring distance can be enlarged to 3m and the antenna will be still inside the cone of emission.
 - 7) Measure the level of the detected frequency with the correct resolution bandwidth, with the antenna polarization and azimuth and the peak and average detector, which causes the maximum emission.
 - 8) Repeat steps 1) to 7) for the next antenna spot if the EUT is larger than the antenna beamwidth.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.



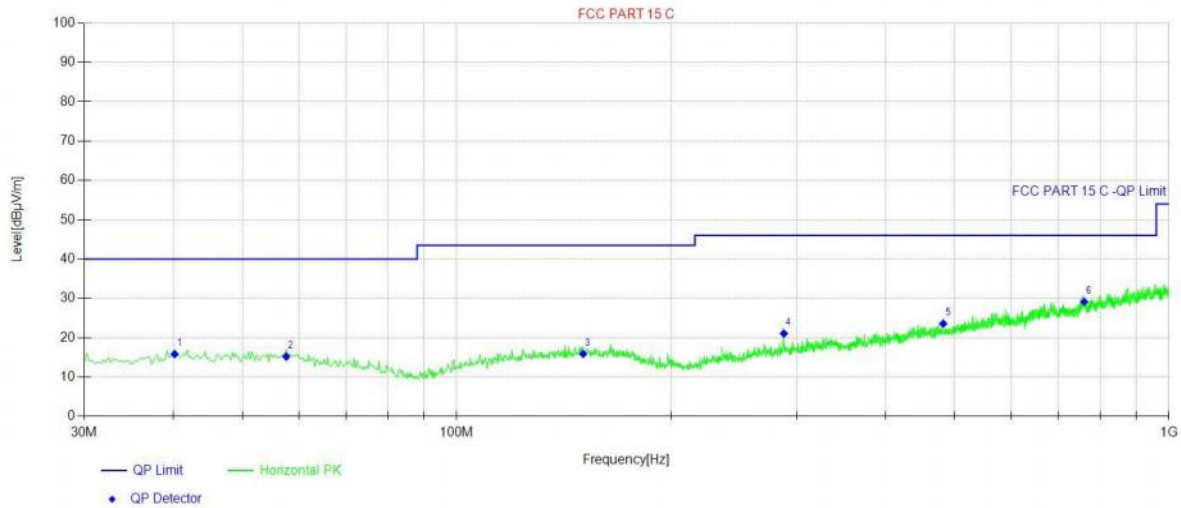
7.5 Summary of Test Results

Test Frequency: 30MHz ~ 1GHz

Please refer to the following test plots, Low Channel (2402MHz) Worst case GFSK for record:

L:

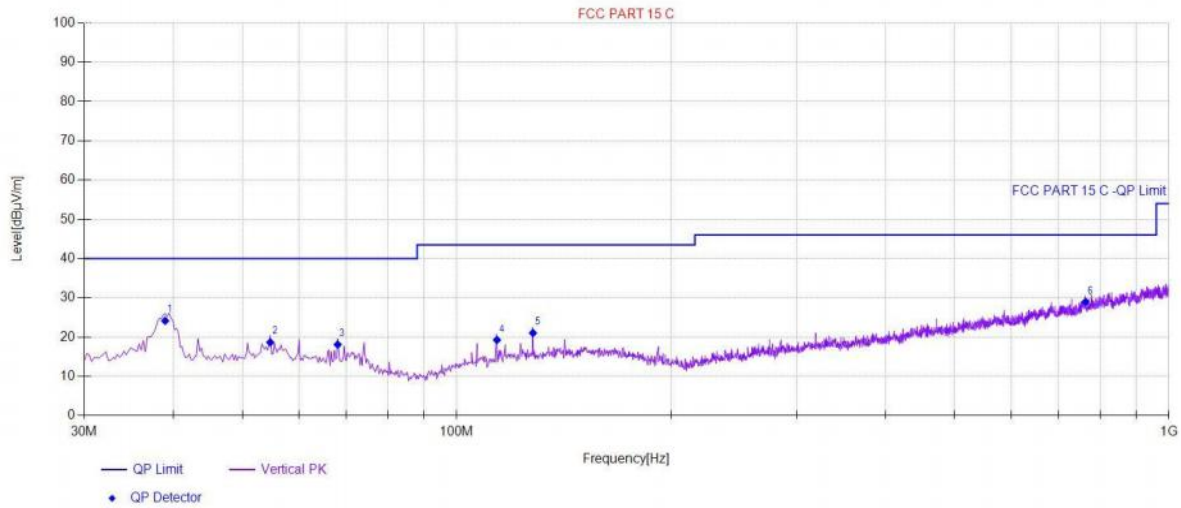
Test plot for Horizontal



Final Data List[QP]								
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	40.19	26.93	-11.09	15.84	40.00	24.16	Horizontal	PASS
2	57.65	26.39	-11.17	15.22	40.00	24.78	Horizontal	PASS
3	150.52	25.23	-9.32	15.91	43.50	27.59	Horizontal	PASS
4	288.02	30.27	-9.19	21.08	46.00	24.92	Horizontal	PASS
5	482.02	27.9	-4.32	23.58	46.00	22.42	Horizontal	PASS
6	760.17	27.4	1.75	29.15	46.00	16.85	Horizontal	PASS

Remark: Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor

Test plot for Vertical

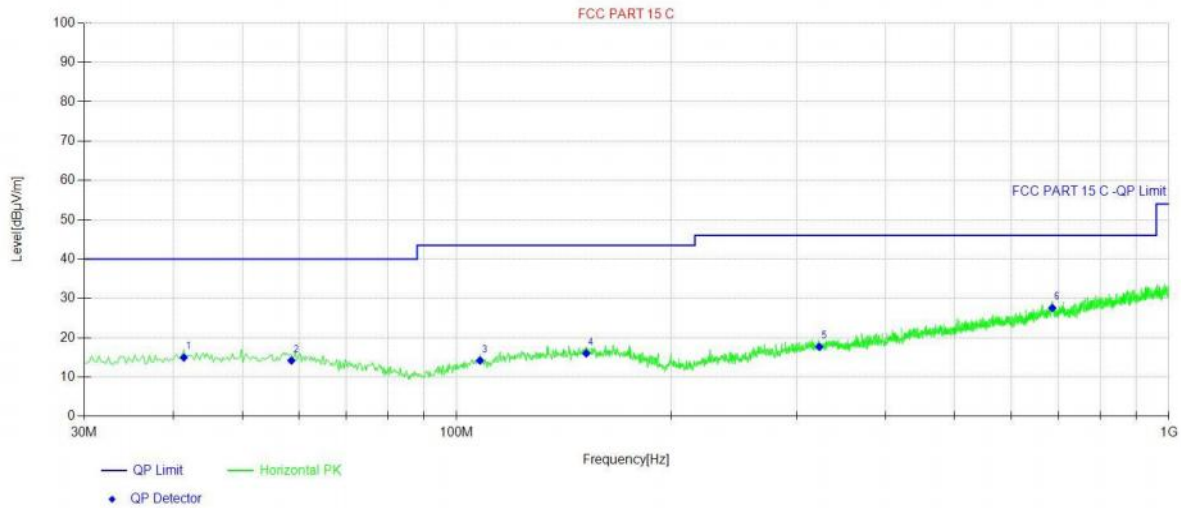


Final Data List[QP]								
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	38.97	35.44	-11.27	24.17	40.00	15.83	Vertical	PASS
2	54.74	29.55	-10.87	18.68	40.00	21.32	Vertical	PASS
3	68.07	30.91	-12.80	18.11	40.00	21.89	Vertical	PASS
4	113.91	30.42	-11.14	19.28	43.50	24.22	Vertical	PASS
5	127.97	31.29	-10.24	21.05	43.50	22.45	Vertical	PASS
6	763.56	27.36	1.63	28.99	46.00	17.01	Vertical	PASS

Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor

R:

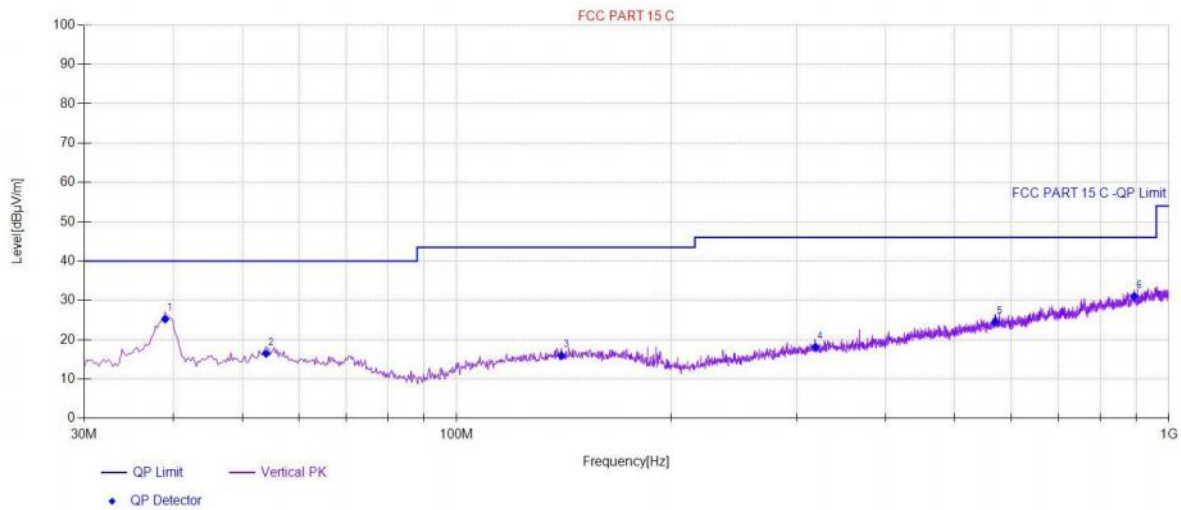
Test plot for Horizontal



Final Data List[QP]								
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	41.40	25.97	-10.98	14.99	40.00	25.01	Horizontal	PASS
2	58.62	25.45	-11.24	14.21	40.00	25.79	Horizontal	PASS
3	107.84	26.29	-12.07	14.22	43.50	29.28	Horizontal	PASS
4	151.98	25.31	-9.26	16.05	43.50	27.45	Horizontal	PASS
5	322.94	25.84	-8.13	17.71	46.00	28.29	Horizontal	PASS
6	685.96	26.96	0.61	27.57	46.00	18.43	Horizontal	PASS

Remark: Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor

Test plot for Vertical



Final Data List[QP]

NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	38.97	36.49	-11.27	25.22	40.00	14.78	Vertical	PASS
2	54.01	27.45	-10.98	16.47	40.00	23.53	Vertical	PASS
3	140.34	25.83	-9.83	16.00	43.50	27.50	Vertical	PASS
4	319.06	26.44	-8.28	18.16	46.00	27.84	Vertical	PASS
5	570.29	26.46	-1.93	24.53	46.00	21.47	Vertical	PASS
6	894.27	26.94	4.13	31.07	46.00	14.93	Vertical	PASS

Remark: Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor

**Test Frequency 1GHz-25GHz**

Bluetooth (GFSK, Pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result GFSK mode was report as below:

L:

Test Mode: CH00 GFSK					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804	45.31	34.04	6.58	34.09	51.84	74	-22.16	V
7206	41.64	37.11	7.73	34.5	51.98	74	-22.02	V
9608	37.62	39.31	9.23	34.79	51.37	74	-22.63	V
4804	46.08	34.04	6.58	34.09	52.61	74	-21.39	H
7206	36.47	37.11	7.73	34.5	46.81	74	-27.19	H
9608	39.94	39.31	9.23	34.79	53.69	74	-20.31	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804	33.11	34.04	6.58	34.09	39.64	54	-14.36	V
7206	28.33	37.11	7.73	34.5	38.67	54	-15.33	V
9608	23.66	39.31	9.23	34.79	37.41	54	-16.59	V
4804	33.06	34.04	6.58	34.09	39.59	54	-14.41	H
7206	26.65	37.11	7.73	34.5	36.99	54	-17.01	H
9608	24.97	39.31	9.23	34.79	38.72	54	-15.28	H



Test Mode: CH39 GFSK					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4882	41.05	34.38	6.69	34.09	48.03	74	-25.97	V
7323	38.50	37.22	7.78	34.53	48.97	74	-25.03	V
9764	35.48	39.46	9.35	34.8	49.49	74	-24.51	V
4882	43.35	34.38	6.69	34.09	50.33	74	-23.67	H
7323	38.28	37.22	7.78	34.53	48.75	74	-25.25	H
9764	34.98	39.46	9.35	34.8	48.99	74	-25.01	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4882	32.37	34.38	6.69	34.09	39.35	54	-14.65	V
7323	27.29	37.22	7.78	34.53	37.76	54	-16.24	V
9764	26.15	39.46	9.35	34.8	40.16	54	-13.84	V
4882	32.57	34.38	6.69	34.09	39.55	54	-14.45	H
7323	28.39	37.22	7.78	34.53	38.86	54	-15.14	H
9764	25.01	39.46	9.35	34.8	39.02	54	-14.98	H



Test Mode: CH78 GFSK					Test channel: Highest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4960	42.99	34.72	6.79	34.09	50.41	74	-23.59	V
7440	40.35	37.34	7.82	34.57	50.94	74	-23.06	V
9920	33.67	39.62	9.46	34.81	47.94	74	-26.06	V
4960	41.64	34.72	6.79	34.09	49.06	74	-24.94	H
7440	37.91	37.34	7.82	34.57	48.50	74	-25.50	H
9920	37.16	39.62	9.46	34.81	51.43	74	-22.57	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4960	33.33	34.72	6.79	34.09	40.75	54	-13.25	V
7440	28.33	37.34	7.82	34.5	38.99	54	-15.01	V
9920	24.79	39.62	9.46	34.79	39.08	54	-14.92	V
4960	33.96	34.72	6.79	34.09	41.38	54	-12.62	H
7440	27.17	37.34	7.82	34.5	37.83	54	-16.17	H
9920	24.74	39.62	9.46	34.79	39.03	54	-14.97	H



R:

Test Mode: CH00 GFSK					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804	45.32	34.04	6.58	34.09	51.85	74	-22.15	V
7206	42.30	37.11	7.73	34.5	52.64	74	-21.36	V
9608	38.17	39.31	9.23	34.79	51.92	74	-22.08	V
4804	45.97	34.04	6.58	34.09	52.50	74	-21.50	H
7206	37.39	37.11	7.73	34.5	47.73	74	-26.27	H
9608	39.45	39.31	9.23	34.79	53.20	74	-20.80	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804	32.09	34.04	6.58	34.09	38.62	54	-15.38	V
7206	27.15	37.11	7.73	34.5	37.49	54	-16.51	V
9608	24.46	39.31	9.23	34.79	38.21	54	-15.79	V
4804	34.37	34.04	6.58	34.09	40.90	54	-13.10	H
7206	29.40	37.11	7.73	34.5	39.74	54	-14.26	H
9608	26.49	39.31	9.23	34.79	40.24	54	-13.76	H



Test Mode: CH39 GFSK					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4882	41.22	34.38	6.69	34.09	48.20	74	-25.80	V
7323	37.50	37.22	7.78	34.53	47.97	74	-26.03	V
9764	35.38	39.46	9.35	34.8	49.39	74	-24.61	V
4882	43.86	34.38	6.69	34.09	50.84	74	-23.16	H
7323	38.38	37.22	7.78	34.53	48.85	74	-25.15	H
9764	34.67	39.46	9.35	34.8	48.68	74	-25.32	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4882	33.42	34.38	6.69	34.09	40.40	54	-13.60	V
7323	26.56	37.22	7.78	34.53	37.03	54	-16.97	V
9764	25.96	39.46	9.35	34.8	39.97	54	-14.03	V
4882	32.85	34.38	6.69	34.09	39.83	54	-14.17	H
7323	29.29	37.22	7.78	34.53	39.76	54	-14.24	H
9764	24.06	39.46	9.35	34.8	38.07	54	-15.93	H



Test Mode: CH78 GFSK					Test channel: Highest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4960	42.71	34.72	6.79	34.09	50.13	74	-23.87	V
7440	40.74	37.34	7.82	34.57	51.33	74	-22.67	V
9920	33.98	39.62	9.46	34.81	48.25	74	-25.75	V
4960	41.18	34.72	6.79	34.09	48.60	74	-25.40	H
7440	37.22	37.34	7.82	34.57	47.81	74	-26.19	H
9920	37.58	39.62	9.46	34.81	51.85	74	-22.15	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4960	32.16	34.72	6.79	34.09	39.58	54	-14.42	V
7440	28.97	37.34	7.82	34.5	39.63	54	-14.37	V
9920	25.96	39.62	9.46	34.79	40.25	54	-13.75	V
4960	33.79	34.72	6.79	34.09	41.21	54	-12.79	H
7440	28.46	37.34	7.82	34.5	39.12	54	-14.88	H
9920	25.76	39.62	9.46	34.79	40.05	54	-13.95	H

Note:

1. The testing has been conformed to $10 \times 2480 \text{ MHz} = 24800 \text{ MHz}$.
2. All other emissions more than 30dB below the limit.
3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

Over Limit = Emission Level - Limit

**Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz**

Bluetooth (GFSK, Pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result GFSK model was report as below

L:

Test Mode: Low Channel 2402MHz									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Polarity H/V	Test Value
2390	47.50	29.15	3.41	34.01	46.05	74	-27.95	H	Peak
2400	59.34	29.16	3.43	34.01	57.92	74	-16.08	H	Peak
2390	48.22	29.15	3.41	34.01	46.77	74	-27.23	V	Peak
2400	55.29	29.16	3.43	34.01	53.87	74	-20.13	V	Peak
2390	40.99	29.15	3.41	34.01	39.54	54	-14.46	H	AV
2400	43.66	29.16	3.43	34.01	42.24	54	-11.76	H	AV
2390	39.57	29.15	3.41	34.01	38.12	54	-15.88	V	AV
2400	45.23	29.16	3.43	34.01	43.81	54	-10.19	V	AV

Test Mode: High Channel 2480MHz									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Polarity H/V	Test Value
2483.5	60.77	29.28	3.53	34.03	59.55	74	-14.45	H	Peak
2500	48.18	29.30	3.56	34.03	47.01	74	-26.99	H	Peak
2483.5	59.97	29.28	3.53	34.03	58.75	74	-15.25	V	Peak
2500	48.87	29.30	3.56	34.03	47.70	74	-26.30	V	Peak
2483.5	41.33	29.28	3.53	34.03	40.11	54	-13.89	H	AV
2500	39.31	29.30	3.56	34.03	38.14	54	-15.86	H	AV
2483.5	44.00	29.28	3.53	34.03	42.78	54	-11.22	V	AV
2500	40.40	29.30	3.56	34.03	39.23	54	-14.77	V	AV



R:

Test Mode: Low Channel 2402MHz									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Polarity H/V	Test Value
2390	48.52	29.15	3.41	34.01	47.07	74	-26.93	H	Peak
2400	59.75	29.16	3.43	34.01	58.33	74	-15.67	H	Peak
2390	48.14	29.15	3.41	34.01	46.69	74	-27.31	V	Peak
2400	55.51	29.16	3.43	34.01	54.09	74	-19.91	V	Peak
2390	40.33	29.15	3.41	34.01	38.88	54	-15.12	H	AV
2400	43.16	29.16	3.43	34.01	41.74	54	-12.26	H	AV
2390	39.06	29.15	3.41	34.01	37.61	54	-16.39	V	AV
2400	44.74	29.16	3.43	34.01	43.32	54	-10.68	V	AV

Test Mode: High Channel 2480MHz									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Polarity H/V	Test Value
2483.5	59.13	29.28	3.53	34.03	57.91	74	-16.09	H	Peak
2500	49.59	29.30	3.56	34.03	48.42	74	-25.58	H	Peak
2483.5	59.04	29.28	3.53	34.03	57.82	74	-16.18	V	Peak
2500	49.47	29.30	3.56	34.03	48.30	74	-25.70	V	Peak
2483.5	42.67	29.28	3.53	34.03	41.45	54	-12.55	H	AV
2500	39.18	29.30	3.56	34.03	38.01	54	-15.99	H	AV
2483.5	43.13	29.28	3.53	34.03	41.91	54	-12.09	V	AV
2500	40.04	29.30	3.56	34.03	38.87	54	-15.13	V	AV

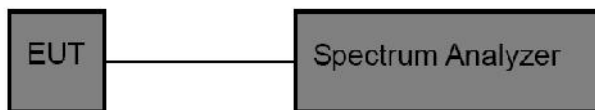


8 Maximum Peak Output Power Test

8.1 Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (b)(3)
Test Limit	125mW

8.2 Test Setup



8.3 Test Procedure

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 D01 15.247 Meas Guidance v05 section 8.3.1.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.



8.4 Test Data

Test Item : Max. peak output power
Test Voltage : 3.7V
Test Result : PASS

Test Mode : CH Low ~ CH High
Temperature : 24.5°C
Humidity : 55%RH

L:

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	3.65	≤20.97	PASS
DH5	Ant1	2441	4.35	≤20.97	PASS
DH5	Ant1	2480	4.43	≤20.97	PASS
2DH5	Ant1	2402	4.39	≤20.97	PASS
2DH5	Ant1	2441	5.04	≤20.97	PASS
2DH5	Ant1	2480	5.17	≤20.97	PASS
3DH5	Ant1	2402	4.34	≤20.97	PASS
3DH5	Ant1	2441	5.1	≤20.97	PASS
3DH5	Ant1	2480	5.23	≤20.97	PASS

R:

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	3.03	≤20.97	PASS
DH5	Ant1	2441	3.89	≤20.97	PASS
DH5	Ant1	2480	4.14	≤20.97	PASS
2DH5	Ant1	2402	3.69	≤20.97	PASS
2DH5	Ant1	2441	4.36	≤20.97	PASS
2DH5	Ant1	2480	4.74	≤20.97	PASS
3DH5	Ant1	2402	3.58	≤20.97	PASS
3DH5	Ant1	2441	4.32	≤20.97	PASS
3DH5	Ant1	2480	4.85	≤20.97	PASS



Test Graphs:

L:

DH5-Ant1-2402-PASS



DH5-Ant1-2441-PASS





DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS



2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS



R:

DH5-Ant1-2402-PASS



DH5-Ant1-2441-PASS



DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS



2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS



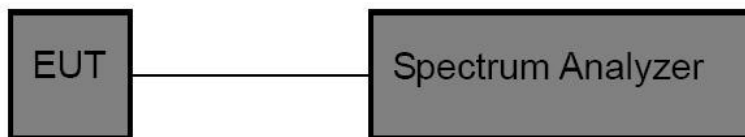


9 20DB Occupy Bandwidth Test

9.1 Test Standard

Test Standard	FCC Part15 C Section 15.247 (a)(1)
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9.2 Test Setup



9.3 Test Procedure

Using the following spectrum analyzer settings:

1. Span= approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel.
2. Set the RBW = 30 kHz.
3. Set the VBW = 100 kHz.
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

9.4 Test Data

Test Item	:	20dB BW	Test Mode	:	CH Low ~ CH High
Test Voltage	:	3.7V	Temperature	:	24.5°C
Test Result	:	PASS	Humidity	:	55%RH



L:

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.014	2401.499	2402.513	---	---
DH5	Ant1	2441	1.044	2440.481	2441.525	---	---
DH5	Ant1	2480	1.056	2479.466	2480.522	---	---
2DH5	Ant1	2402	1.323	2401.343	2402.666	---	---
2DH5	Ant1	2441	1.323	2440.349	2441.672	---	---
2DH5	Ant1	2480	1.296	2479.346	2480.642	---	---
3DH5	Ant1	2402	1.308	2401.355	2402.663	---	---
3DH5	Ant1	2441	1.215	2440.391	2441.606	---	---
3DH5	Ant1	2480	1.266	2479.358	2480.624	---	---

R:

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.011	2401.493	2402.504	---	---
DH5	Ant1	2441	1.023	2440.493	2441.516	---	---
DH5	Ant1	2480	1.023	2479.493	2480.516	---	---
2DH5	Ant1	2402	1.356	2401.334	2402.690	---	---
2DH5	Ant1	2441	1.287	2440.370	2441.657	---	---
2DH5	Ant1	2480	1.323	2479.349	2480.672	---	---
3DH5	Ant1	2402	1.257	2401.349	2402.606	---	---
3DH5	Ant1	2441	1.371	2440.322	2441.693	---	---
3DH5	Ant1	2480	1.209	2479.391	2480.600	---	---



Test Graphs:

L:

DH5-Ant1-2402



DH5-Ant1-2441



DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480



R:

DH5-Ant1-2402





DH5-Ant1-2441



DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480



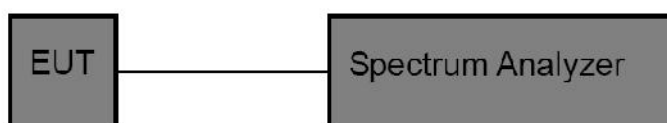


10 Carrier Frequency Separation Test

10.1 Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)
Test Limit	>25KHz or >two-thirds of the 20 dB bandwidth

10.2 Test Setup



10.3 Test Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer settings:

1. Span= Wide enough to capture the peaks of two adjacent channels
2. Set the RBW = 300 kHz.
3. Set the VBW = 300 kHz.
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

10.4 Test Data

Test Item	:	Frequency Separation	Test Mode	:	CH Low ~ CH High
Test Voltage	:	3.7V	Temperature	:	24.5°C
Test Result	:	PASS	Humidity	:	55%RH

L:

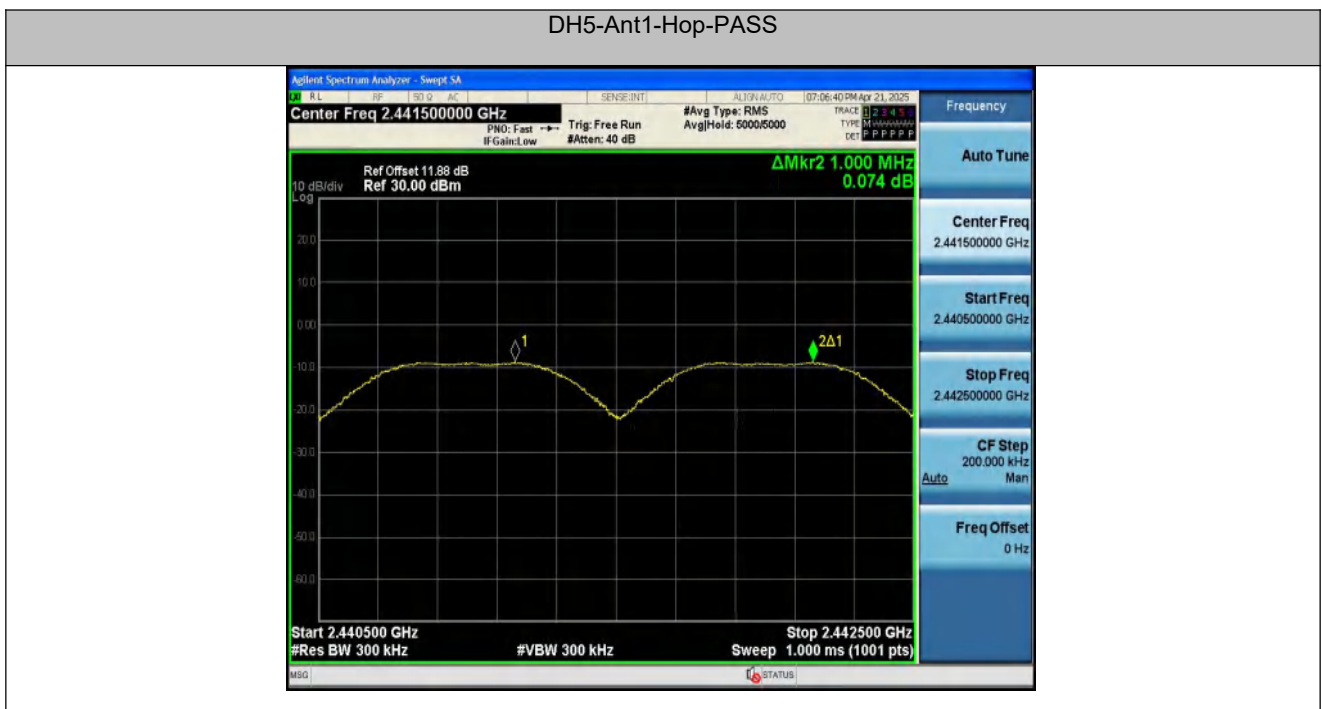
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1	≥0.704	PASS
2DH5	Ant1	Hop	1.162	≥0.882	PASS
3DH5	Ant1	Hop	0.908	≥0.872	PASS

R:

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.878	≥0.682	PASS
2DH5	Ant1	Hop	1.142	≥0.904	PASS
3DH5	Ant1	Hop	1.07	≥0.914	PASS

Test Graphs:

L:





2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS





R:

DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS



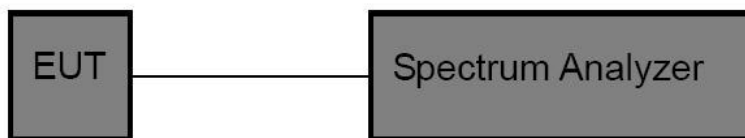


11 Number of Hopping Channel Test

11.1 Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)
Test Limit	>15 channels

11.2 Test Setup



11.3 Test Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer setting:

1. Span= the frequency band of operation
2. Set the RBW = 300kHz.
3. Set the VBW = 300kHz.
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.



11.4 Test Data

Test Item	: Number of Hopping Frequency	Test Mode	: CH Low ~ CH High
Test Voltage	: 3.7V	Temperature	: 24.5°C
Test Result	: PASS	Humidity	: 55%RH

L:

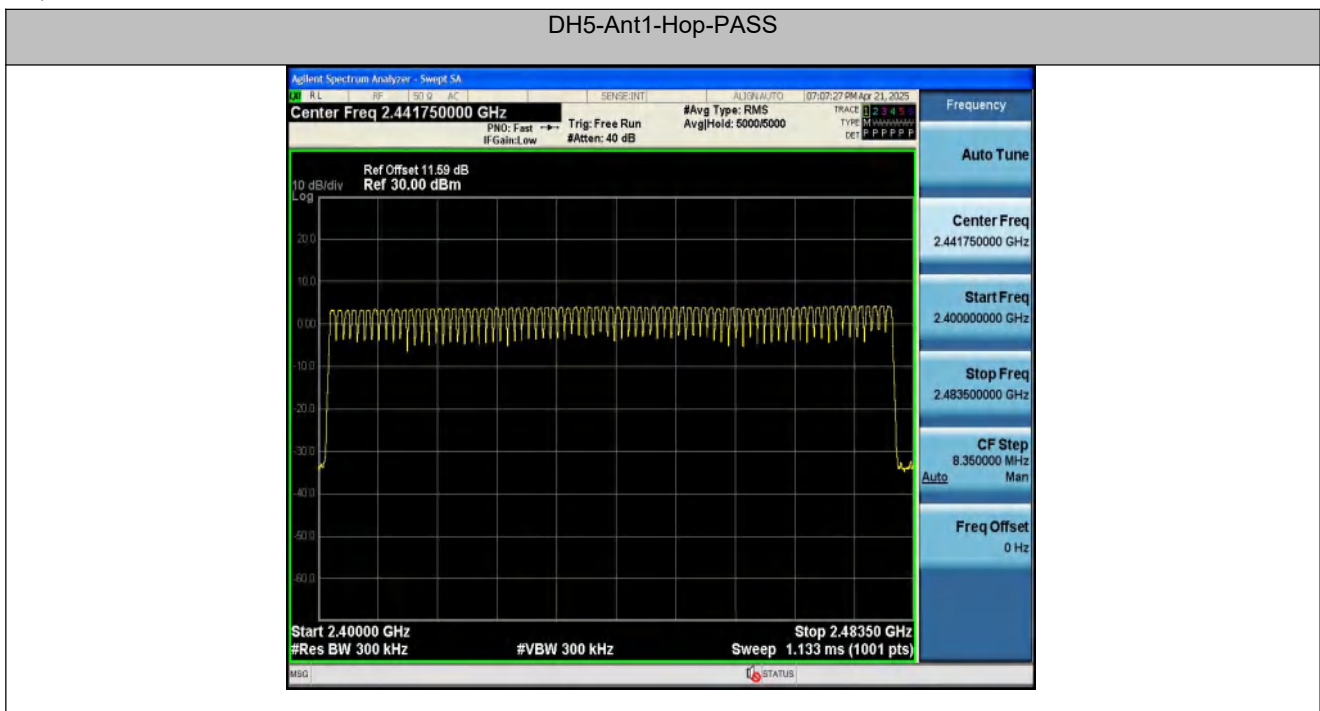
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

R:

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

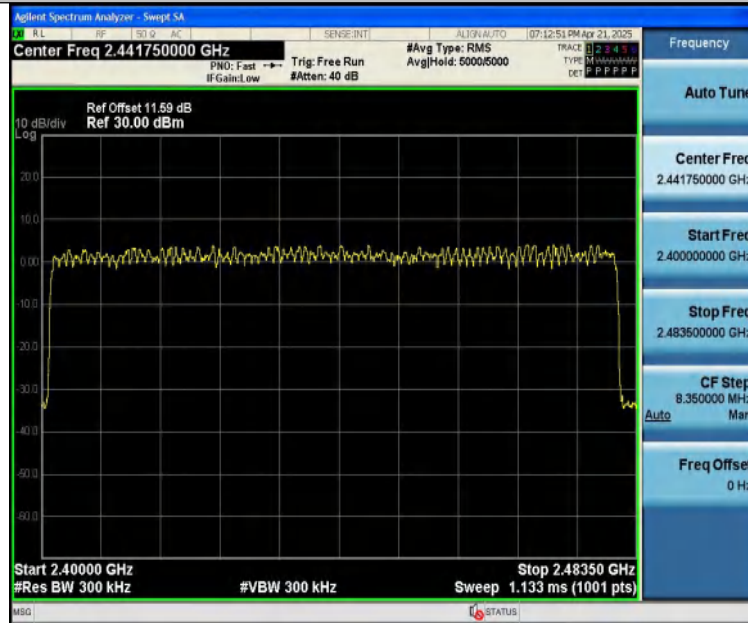
Test Graphs:

L:

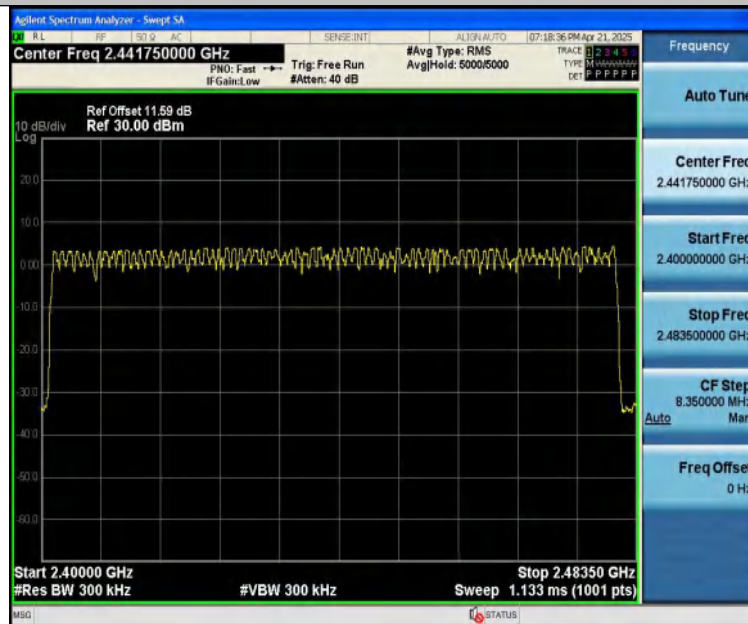




2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS



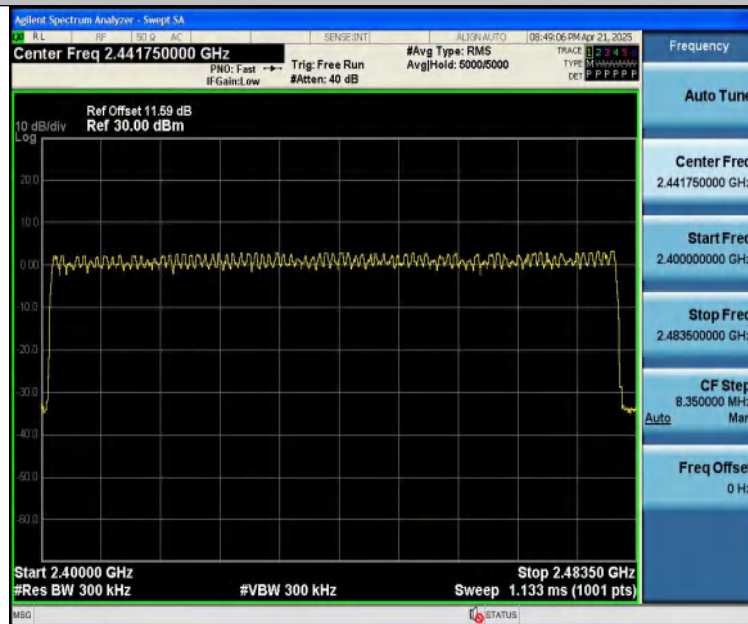


R:

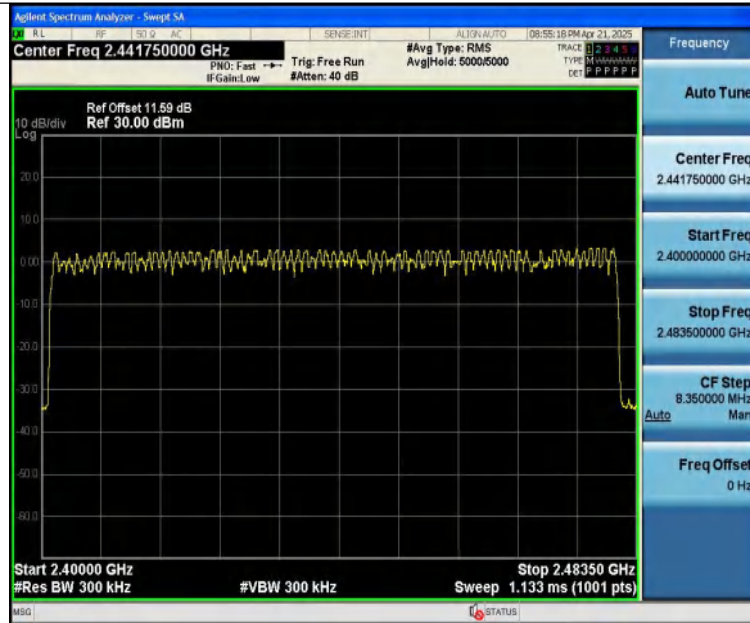
DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS



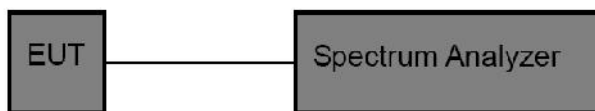


12 Dwell Time Test

12.1 Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)
Test Limit	0.4 sec

12.2 Test Setup



12.3 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span= zero span, centered on a hopping channel
2. Set the RBW = 1 MHz.
3. Set the VBW = 3 MHz.
4. Sweep time = as necessary to capture the entire dwell time per hopping channel.
5. Detector function = peak.
6. Trace mode = clear write.
7. Allow trace to fully stabilize.

**12.4 Test Data**

Test Item	:	Time of Occupancy	Test Mode	:	CH Low ~ CH High
Test Voltage	:	3.7V	Temperature	:	24.5°C
Test Result	:	PASS	Humidity	:	55%RH

L:

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS
2DH5	Ant1	Hop	2.891	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	0.896	106.67	0.096	≤0.4	PASS
DH1	Ant1	Hop	0.381	320	0.122	≤0.4	PASS
2DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
3DH1	Ant1	Hop	0.415	320	0.133	≤0.4	PASS
DH3	Ant1	Hop	1.638	160	0.262	≤0.4	PASS
2DH3	Ant1	Hop	1.643	160	0.263	≤0.4	PASS
3DH3	Ant1	Hop	0.650	160	0.104	≤0.4	PASS

R:

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS
2DH5	Ant1	Hop	2.889	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	0.894	106.67	0.095	≤0.4	PASS
DH1	Ant1	Hop	0.381	320	0.122	≤0.4	PASS
2DH1	Ant1	Hop	0.389	320	0.124	≤0.4	PASS
3DH1	Ant1	Hop	0.417	320	0.133	≤0.4	PASS
DH3	Ant1	Hop	1.637	160	0.262	≤0.4	PASS
2DH3	Ant1	Hop	1.642	160	0.263	≤0.4	PASS
3DH3	Ant1	Hop	0.650	160	0.104	≤0.4	PASS

Note:

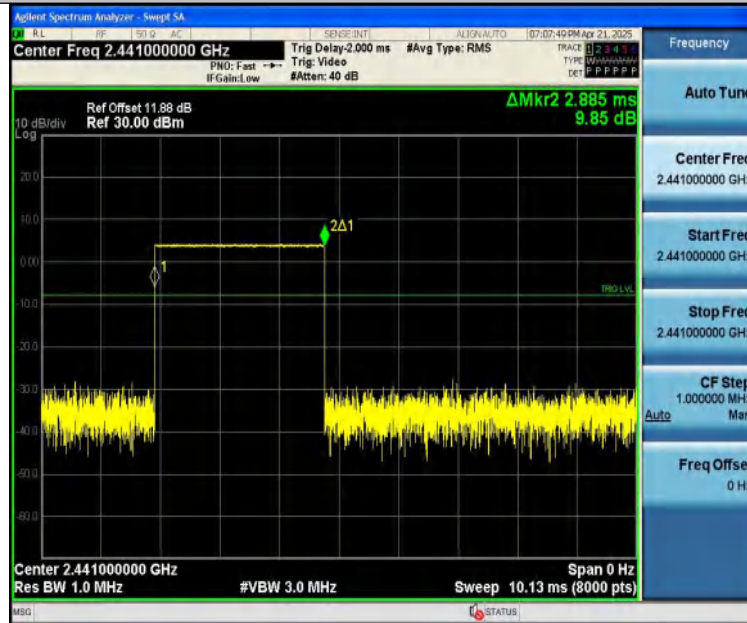
- 1.DH1/2DH1/3DH1 Dwell Time: Reading * (1600/2)*31.6/(channel number).
- 2.DH3/2DH3/3DH3 Dwell Time: Reading * (1600/4)*31.6/(channel number).
- 3.DH5/2DH5/3DH5 Dwell Time: Reading * (1600/6)*31.6/(channel number).



Test Graphs:

L:

DH5-Ant1-Hop-PASS



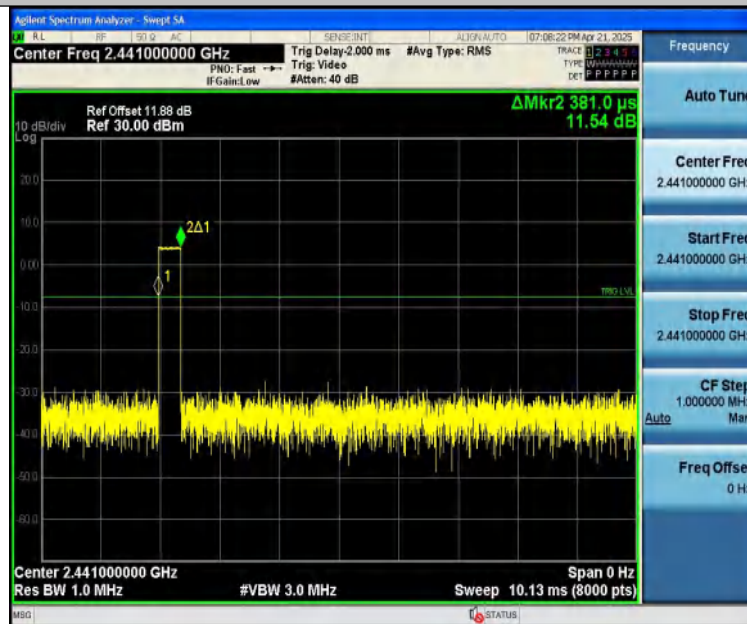
2DH5-Ant1-Hop-PASS



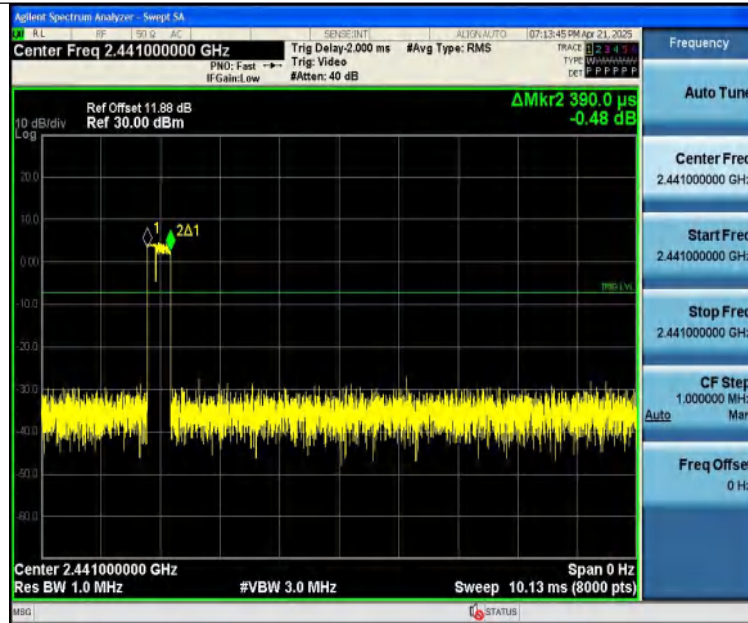
3DH5-Ant1-Hop-PASS



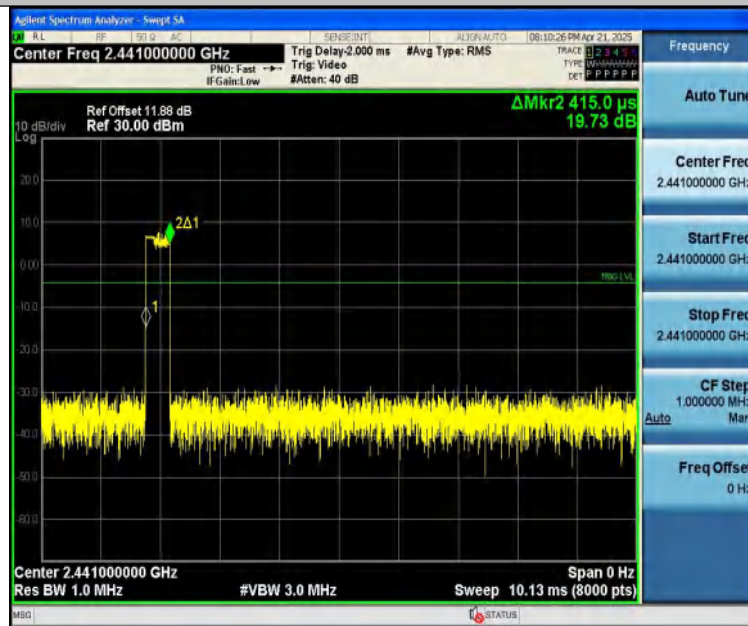
DH1-Ant1-Hop-PASS



2DH1-Ant1-Hop-PASS



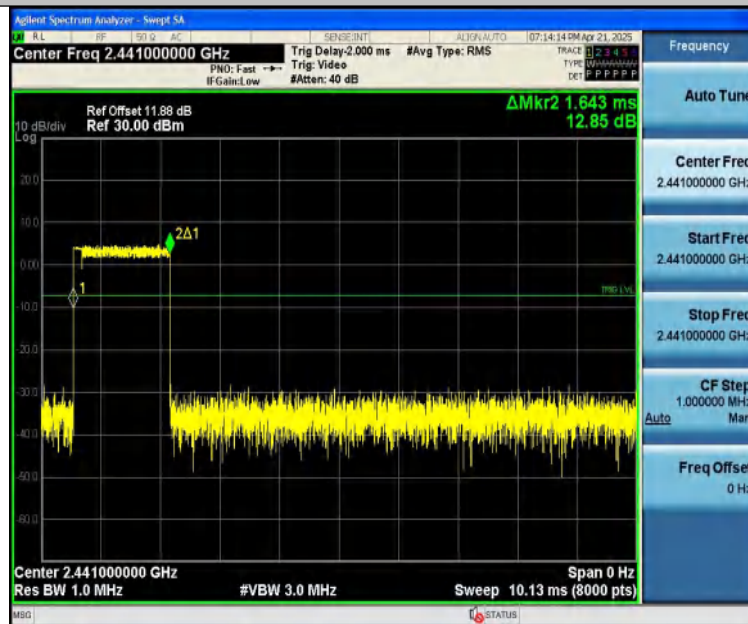
3DH1-Ant1-Hop-PASS



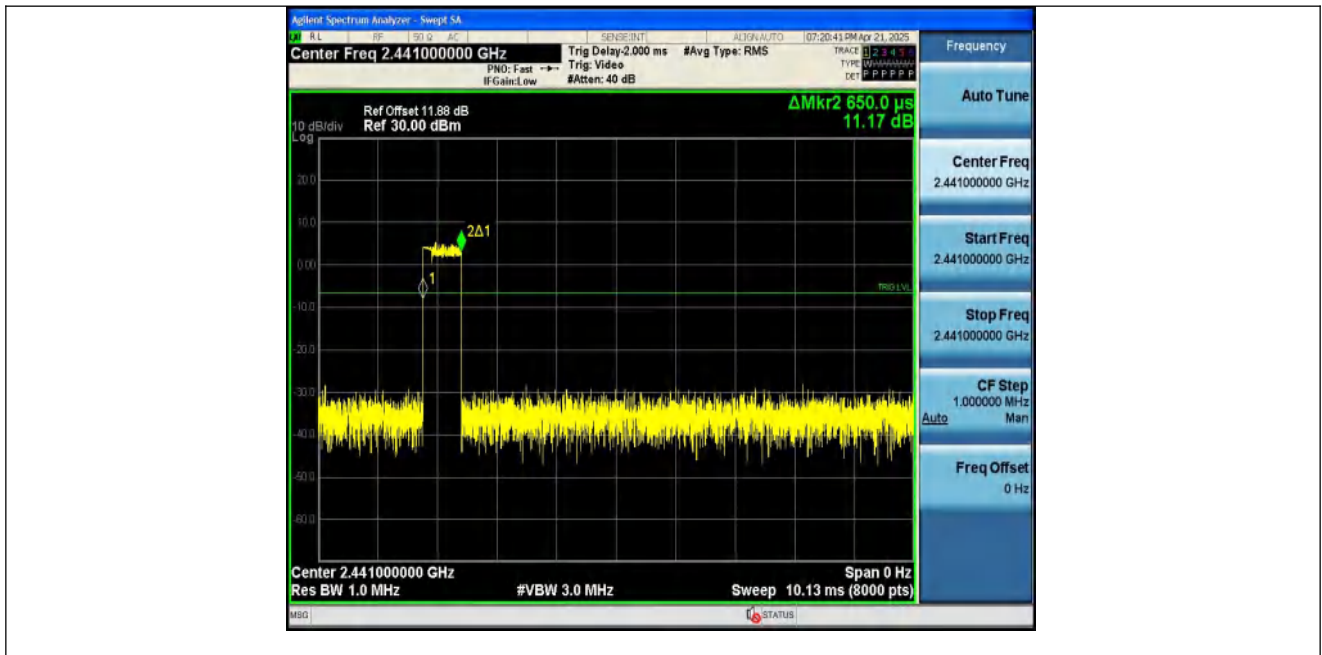
DH3-Ant1-Hop-PASS



2DH3-Ant1-Hop-PASS

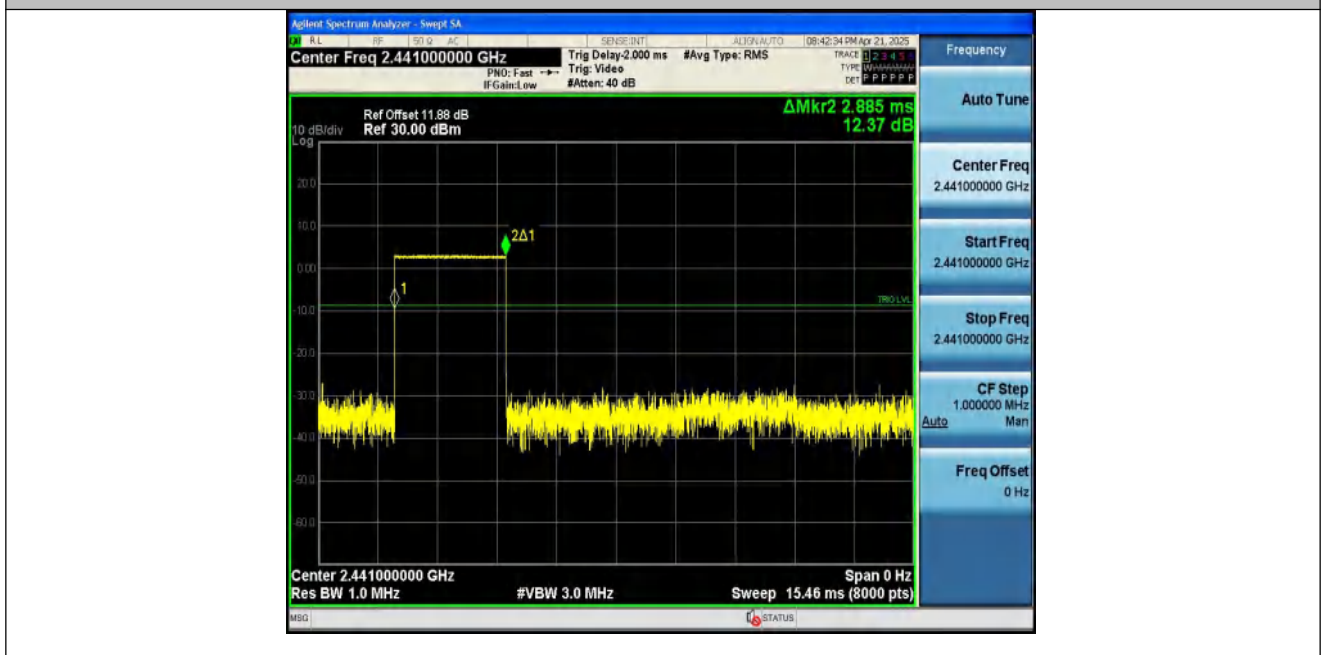


3DH3-Ant1-Hop-PASS



R:

DH5-Ant1-Hop-PASS

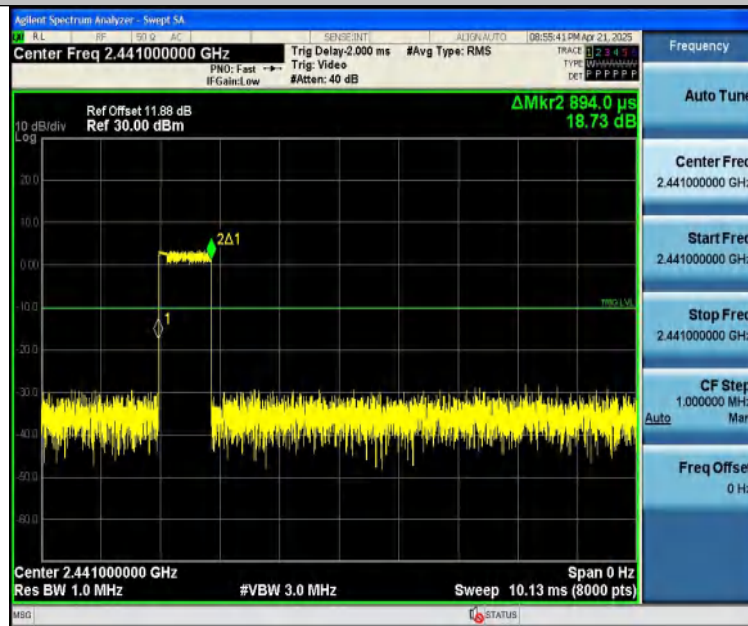




2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS



DH1-Ant1-Hop-PASS