

FCC &ISED Radio Test Report

FCC ID: X5B-049038T IC: 8814A-049038T

The report concerns: Original Grant

Report Reference No.....: 24EFSB05024 04371

Date Sample(s) Received.....: 2024-05-31

Date of Tested...... From 2024-05-31 to 2024-06-22

Date of issue.....: 2024-06-25

Testing Laboratory DongGuanShuoXin Electronic Technology Co., Ltd.

Zone A, 1F, No. 6, XinGang Road YuanGang Street,

Address XinAn District, ChangAn Town, DongGuan City,

GuangDong, China

Applicant's name PERFORMANCE DESIGNED PRODUCTS, LLC

14144 Ventura Blvd, Suite 200 Sherman. Oaks CA

Manufacturer..... PERFORMANCE DESIGNED PRODUCTS, LLC

Equipment....: Phantom Air Wireless Dongle for Xbox /

Phantom Air Wireless Dongle for Play Station

Trade Mark /

Model 049-038T, 052-026T

Ratings I/P: DC 5V

Test Engineer: Sue live

Blue Qiu

Responsible Engineer: Smile Womy

Smile Wang

Authorized Signatory:

King Wang



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1 TEST REPORT DECLARE

Applicant for FCC	PERFORMANCE DESIGNED PRODUCTS, LLC
Address for FCC	14144 Ventura Blvd, Suite 200 Sherman. Oaks CA 91423 United States Of America
Manufacturer	PERFORMANCE DESIGNED PRODUCTS, LLC
Address	14144 Ventura Blvd, Suite 200 Sherman. Oaks CA 91423 United States Of America
Factory	PERFORMANCE DESIGNED PRODUCTS, LLC
Address	14144 Ventura Blvd, Suite 200 Sherman. Oaks CA
Address	91423 United States Of America
Equipment	Phantom Air Wireless Dongle for Xbox / Phantom Air Wireless Dongle for Play Station
Model No.	049-038T, 052-026T
Trade Mark	1
Standard	FCC Part15, Subpart C (15.247) RSS-247 Issue 3, Aug. 2023 RSS-Gen Issue 5, Apr. 2018 ANSI C63.10-2013

We Declare:

The equipment described above is tested by DongGuanShuoXin Electronic Technology Co., Ltd(ATT). and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and DongGuanShuoXin Electronic Technology Co., Ltd.(ATT) is assumed of full responsibility for the accuracy and completeness of these tests.

ATT is not responsible for the sampling stage, so the results only apply to the sample as received.

ATT's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. ATT shall have no liability for any declarations, inferences or generalizations drawn by the client or others from ATT issued reports.



2 SUMMARY OF TEST RESULTS

The EUT have been tested according to the applicable standards as referenced below:

Standard(s	s) Section	Test Item	Judgment	Remark
FCC	ISED	iest item	Judgment	Nemark
15.207	RSS-Gen 8.8	AC Power Line Conducted Emissions	PASS	
15.247(d) 15.205(a) 15.209(a)	RSS-247 5.5 RSS-Gen 8.9 RSS-Gen 8.10	Radiated Emission	PASS	
15.247(a)(1)(iii)	RSS-247 5.1 (d)	Number of Hopping Frequency	PASS	
15.247(a)(1)(iii)	RSS-247 5.1 (d)	Average Time Of Occupancy	PASS	
15.247(a)(1)	RSS-247 5.1 (b)	Hopping Channel Separation	PASS	
15.247(a)(1)	RSS-247 5.1 (a) RSS-Gen 6.7	Bandwidth	PASS	
15.247(a)(1)	RSS-247 5.1 (b)	Maximum Output Power	PASS	
15.247(d)	RSS-247 5.5	Conducted Spurious Emission	PASS	
-	RSS-Gen 6.11	Frequency Stability	PASS	
15.203	-	Antenna Requirement	PASS	Note(2)

Note:

- (1) "N/A" denotes test is not applicable in this test report
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.



2.1 MEASUREMENT UNCERTAINTY

Test Item	Uncertainty
Uncertainty for Conduction emission test (9kHz-150kHz)	3.7 dB
Uncertainty for Conduction emission test (150kHz-30MHz)	3.3 dB
Uncertainty for Radiation Emission test (30MHz-200MHz)	4.60 dB (Polarize: V)
Officertainty for Radiation Emission test (30km/2-200km/2)	4.60 dB (Polarize: H)
Upportainty for Padiation Emission toot (200MHz 1CHz)	6.10 dB (Polarize: V)
Uncertainty for Radiation Emission test (200MHz-1GHz)	5.08 dB (Polarize: H)
Uncertainty for Padiation Emission toot (1CHz 6CHz)	5.01 dB (Polarize: V)
Uncertainty for Radiation Emission test (1GHz-6GHz)	5.01 dB (Polarize: H)
Uncertainty for Radiation Emission toot (60Hz 190Hz)	5.26 dB (Polarize: V)
Uncertainty for Radiation Emission test (6GHz-18GHz)	5.26 dB (Polarize: H)
Uppertainty for Dadiction Emission toot (1904-1904-1	5.06 dB (Polarize: V)
Uncertainty for Radiation Emission test (18GHz-40GHz)	5.06 dB (Polarize: H)
Uncertainty for radio frequency	±0.048kHz
Uncertainty for conducted RF Power	±0.32dB

Note:

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

Test Facility:

The Test site used by DongGuanShuoXin Electronic Technology Co., Ltd. to collect test data is located on the Zone A, 1F, No. 6, XinGang Road YuanGang Street, XinAn District, ChangAn Town, DongGuan City, GuangDong, China

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

Item	Registration No.	Expiration Date
CNAS	L3098	2024-08-27
A2LA	4893.01	2024-06-30
Innovation, Science and Economic Development Canada (ISED)	11033A CAB identifer:CN0083	2024-06-30
Federal Communications Commission (FCC)	171688 Designation No.:CN1235	2024-06-30



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Phantom Air Wireless Dongle for Phantom Air Wireless Dongle for	
Brand Name	1	
Test Model	049-038T, 052-026T	
Series Model	N/A	
Model Difference(s)	The two models have the same circuit principle and PCB Layout, and the different model names and appearances are intended to be applied to different platforms. The 049-038T support for Xbox, the 052-026T support for Play Station.	
Hardware Version	1.0	
Software Version	1.0	
Power Source	DC 5V	
Power Rating	DC 5V Charged	
Operation Frequency	2402 MHz ~ 2480 MHz	
Modulation Technology	GFSK, π/4-DQPSK, 8-DPSK	
Bit Rate of Transmitter	1Mbps /2Mbps /3Mbps	
Antenna Information	Antenna Type: PCB	Maximum Peak Gain:-3.71dBi
Max. Output Power	1Mbps: 4.062dBm (0.002548W) 2Mbps: 4.059dBm (0.002546W) 3Mbps: 4.310dBm (0.002698W)	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.





2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		



3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX Mode NOTE (1)
Mode 2	TX Mode Channel 01_3Mbps

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 2	TX Mode Channel 01_3Mbps

Radiated emissions test - Below 1GHz		
Final Test Mode	Description	
Mode 2	TX Mode Channel 01_3Mbps	

Radiated emissions test - Above 1GHz				
Final Test Mode Description				
Mode 1 TX Mode NOTE (1)				

Conducted test				
Final Test Mode Description				
Mode 1	TX Mode note (1)			

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) The measurements for Hopping Channel Separation, Bandwidth and Maximum Output Power were tested during 1Mbps, 2Mbps and 3Mbps, the worst case are 1Mbps and 3Mbps, only worst case was documented.

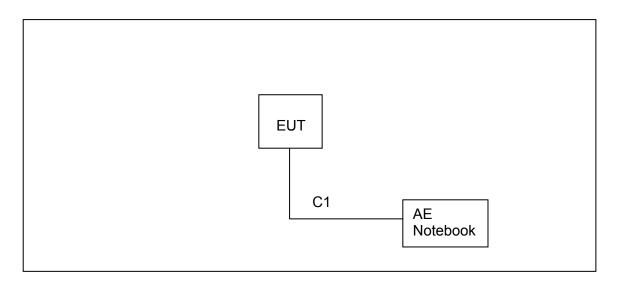


3.3 PARAMETERS OF TEST SOFTWARE

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test Software	Airoha.Tool.Kit			
Frequency (MHz)	2402	2441	2480	
Parameters(1Mbps)	Default	Default	Default	
Parameters(3Mbps)	Default	Default	Default	

3.4 BLOCKDIAGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED



3.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
AE	Notebook	Lenovo	1	1

Item	Cable Type	Shielded Type	Ferrite Core	Length
C1	DC Cable	NO	NO	0.8m





3.6 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage
AC Power Line Conducted Emissions	24.4°C	62%	DC 5V
AC Power Line Conducted Emissions	24.4 C	0270	(AC 120V/60Hz)
Radiated Emissions-9K-30MHz	25.0°C	60%	DC 5V
Radiated Emissions-30 MHz to 1GHz	24.2°C	59%	DC 5V
Radiated Emissions-Above 1000 MHz	24.2°C	59%	DC 5V
Number of Hopping Frequency	24.8°C	40.9%	DC 5V
Average Time Of Occupancy	24.8°C	40.9%	DC 5V
Hopping Channel Separation	24.8°C	40.9%	DC 5V
Bandwidth	24.8°C	40.9%	DC 5V
Maximum Output Power	24.8°C	40.9%	DC 5V
Conducted Spurious Emission	24.8°C	40.9%	DC 5V



4 AC POWER LINE CONDUCTED EMISSIONS TEST

4.1 LIMIT

Fraguency of Emission (MHz)	Limit (dBµV)			
Frequency of Emission (MHz)	Quasi-peak	Average		
0.15 - 0.50	66 to 56*	56 to 46*		
0.50 - 5.0	56	46		
5.0 - 30.0	60	50		

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.

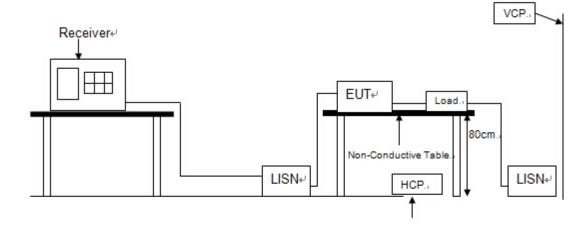
4.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Pulse Limiter	MTS-systemtechn ik	MTS-IMP-136	261115-010-0024	12/04/2024
2	EMI Test Receiver	R&S	ESCI	101308	06/05/2025
3	LISN	AFJ	LS16	16011103219	06/05/2025
4	LISN	Schwarzbeck	NSLK 8127	8127-432	06/05/2025
5	MeasurementSoftwar e	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

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4.4 TESTSETUP



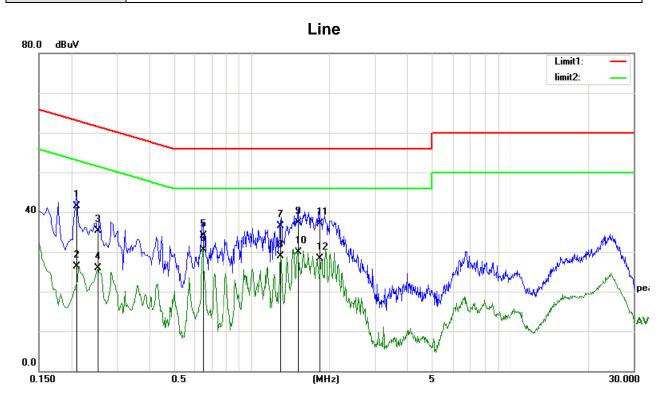
4.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting data or hopping on mode.



4.6 TEST RESULTS

Test Mode: TX Mode Channel 01 _3Mbps



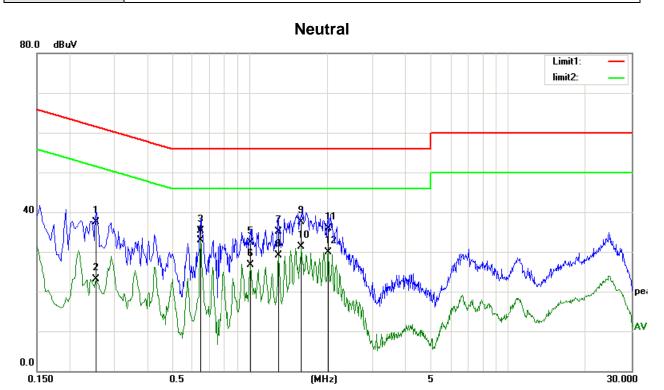
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.2099	30.75	10.84	41.59	63.21	-21.62	QP
2	0.2099	15.39	10.84	26.23	53.21	-26.98	AVG
3	0.2540	24.70	10.56	35.26	61.62	-26.36	QP
4	0.2540	15.26	10.56	25.82	51.62	-25.80	AVG
5	0.6500	23.45	10.70	34.15	56.00	-21.85	QP
6	0.6500	19.89	10.70	30.59	46.00	-15.41	AVG
7	1.2940	25.81	10.66	36.47	56.00	-19.53	QP
8	1.2940	18.15	10.66	28.81	46.00	-17.19	AVG
9	1.5140	26.51	10.71	37.22	56.00	-18.78	QP
10	1.5140	19.24	10.71	29.95	46.00	-16.05	AVG
11	1.8340	26.38	10.76	37.14	56.00	-18.86	QP
12	1.8340	17.54	10.76	28.30	46.00	-17.70	AVG

Remarks:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX Mode Channel 01 _3Mbps



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.2540	27.03	10.56	37.59	61.62	-24.03	QP
2	0.2540	12.56	10.56	23.12	51.62	-28.50	AVG
3	0.6460	24.52	10.70	35.22	56.00	-20.78	QP
4	0.6460	22.28	10.70	32.98	46.00	-13.02	AVG
5	1.0100	21.76	10.57	32.33	56.00	-23.67	QP
6	1.0100	16.23	10.57	26.80	46.00	-19.20	AVG
7	1.2940	24.50	10.66	35.16	56.00	-20.84	QP
8	1.2940	18.38	10.66	29.04	46.00	-16.96	AVG
9	1.5859	26.69	10.72	37.41	56.00	-18.59	QP
10	1.5859	20.50	10.72	31.22	46.00	-14.78	AVG
11	2.0139	25.08	10.79	35.87	56.00	-20.13	QP
12	2.0139	19.09	10.79	29.88	46.00	-16.12	AVG

Remarks:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



5 RADIATED EMISSION TEST

5.1 LIMIT

In case the emission fall within the restricted band specified on15.205(a) &RSS-Gen 8.10, then the 15.209(a) &RSS-Gen 8.9 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-30 MHz)

Frequency	Magnetic field strength (H-Field)	Measurement Distance		
(MHz)	(μA/m)	(meters)		
0.009-0.490	6.37/F(kHz)	300		
0.490-1.705	6.37/F(kHz)	30		
1.705-30.0	0.08	30		

LIMITS OF RADIATED EMISSION MEASUREMENT (30 MHz-1000MHz)

Frequency	Field Strength				
(MHz)	(μV/m at 3m)				
30-88	100				
88-216	150				
216-960	200				
Above 960	500				

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Fraguanay (MHz)	(dBuV/m at 3 m)				
Frequency (MHz)	Peak	Average			
Above 1000	74	54			

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C and RSS-247.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



5.2 TEST PROCEDURE AND SETTING

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. The test result is calculated as the following:
 - (1) Result = Reading + Correct Factor
 - (2) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator
 - (3) Margin = Result Limit

Spectrum Parameter	Setting				
Attenuation	Auto				
Start Frequency	1000 MHz				
Stop Frequency	10th carrier harmonic				
RBW / VBW	RBW 1MHz VBW 3MHz peak detector for Pk value				
(Emission in restricted band)	RMS detector for AV value				

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

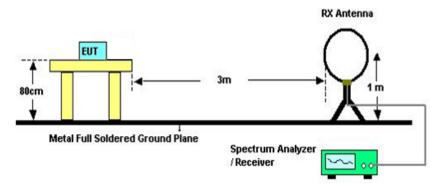


5.3 MEASUREMENT INSTRUMENTS LIST

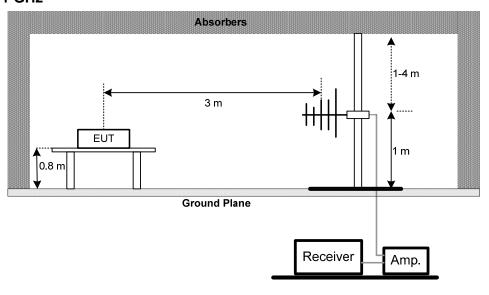
Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	101307	06/05/2025
2	Spectrum Analyzer	Agilent	E4407B	US40240708	11/06/2024
3	Loop antenna	SCHWARZBECK K	FMZB1519	1519-062	01/14/2025
4	Broadband antenna	SCHWARZBECK	VULB9168	VULB9168-192	03/29/2025
5	HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D 1065	03/29/2025
6	Preamplifier Amplifier	HP	8447F	3113A05680	12/04/2024
7	PRE-AMPLIFIER	EMEC	EM01G26G	980136	03/29/2025
8	RF Cable	R&S	Test Cable 4	4	12/11/2024
9	RF Cable	R&S	Test Cable 5	5	12/11/2024
10	RF Cable	R&S	Test Cable 9	9	04/17/2025
11	RF Cable	R&S	Test Cable 10	10	04/17/2025
12	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

5.4 TESTSETUP

9 kHz-30 MHz

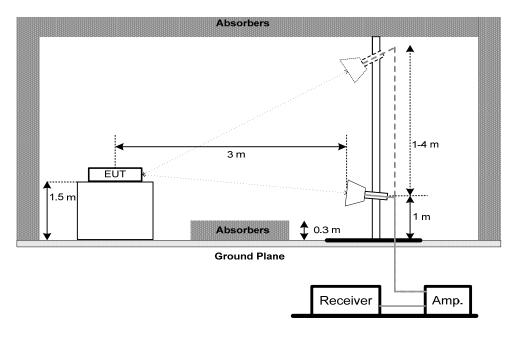


30 MHz to 1 GHz





Above 1 GHz



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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5.6 TEST RESULTS - 9 kHz TO 30MHz

Test Mode:	TX Mode Channel 01 _3Mbps
------------	---------------------------

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				Р
				Р

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =20 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor



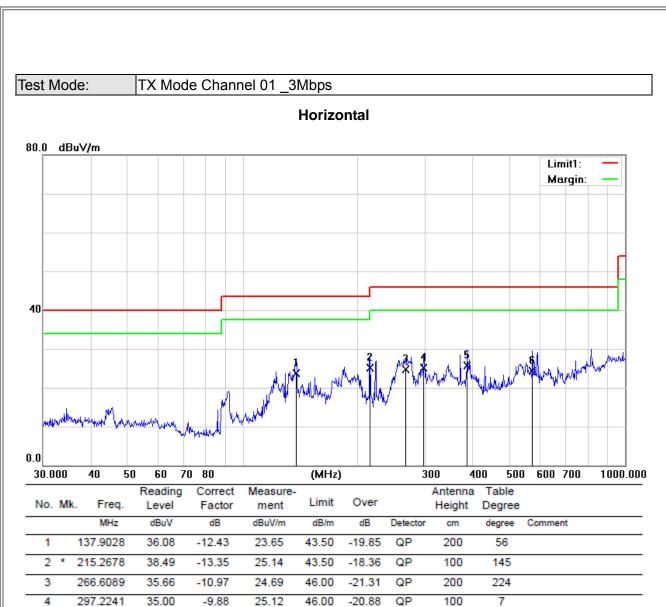
5.7 TEST RESULTS- 30 MHz TO 1000MHz

Test Mode: TX Mode Channel 01 _3Mbps

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		46.0162	38.73	-14.37	24.36	40.00	-15.64	QP	100	27	
2		88.3421	42.72	-16.84	25.88	43.50	-17.62	QP	100	215	
3		106.7587	39.12	-15.00	24.12	43.50	-19.38	QP	100	119	
4	*	129.0146	44.46	-13.80	30.66	43.50	-12.84	QP	200	305	
5		136.9390	41.33	-12.37	28.96	43.50	-14.54	QP	100	78	
6		159.7844	40.25	-10.71	29.54	43.50	-13.96	QP	100	8	

^{*:}Maximum data x:Over limit !:over margin





*:Maximum data	x:Over limit	!:over	margin
----------------	--------------	--------	--------

34.45

28.86

-8.68

-4.50

25.77

24.36

46.00

46.00

-20.23

-21.64

QP

QP

100

300

310 29

5

6

386.6338

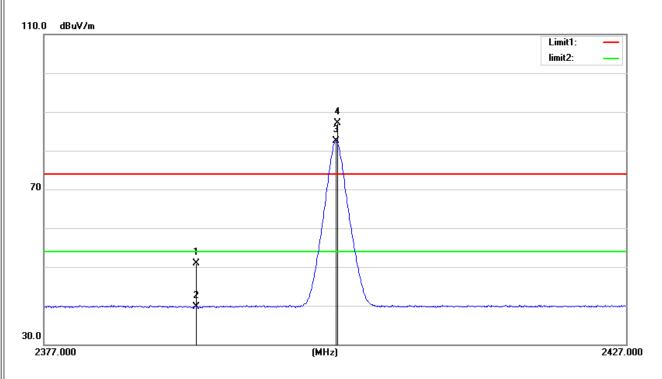
572.6144



5.8 TEST RESULTS - ABOVE 1000MHz(BAND EDGE)

Test Mode: TX 2402 MHz_CH00_1Mbps

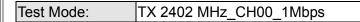
Vertical



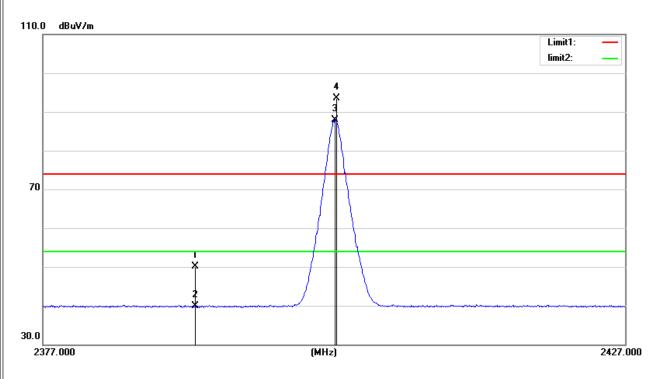
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		2390.000	21.63	29.28	50.91	74.00	-23.09	peak	150	132	
2		2390.000	10.41	29.28	39.69	54.00	-14.31	AVG	150	132	
3	ż	2402.000	53.16	29.28	82.44	54.00	28.44	AVG	150	132	No Limit
4	Х	2402.150	57.91	29.28	87.19	74.00	13.19	peak	150	132	No Limit

^{*:}Maximum data x:Over limit !:over margin





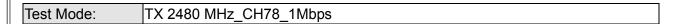
Horizontal



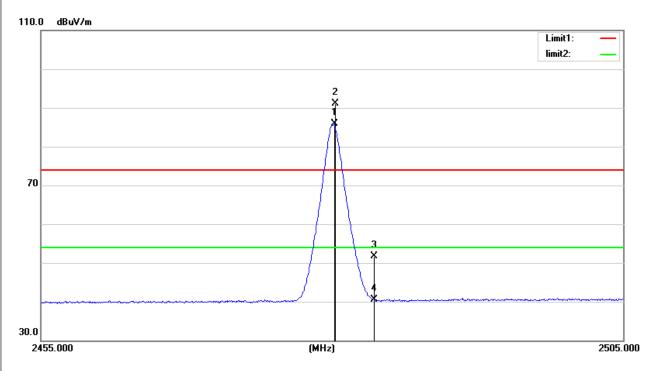
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		2390.000	20.75	29.28	50.03	74.00	-23.97	peak	150	79	
2		2390.000	10.56	29.28	39.84	54.00	-14.16	AVG	150	79	
3	*	2402.000	58.72	29.28	88.00	54.00	34.00	AVG	150	79	No Limit
4	X :	2402.150	64.19	29.28	93.47	74.00	19.47	peak	150	79	No Limit

^{*:}Maximum data x:Over limit !:over margin





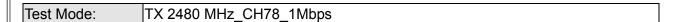
Vertical



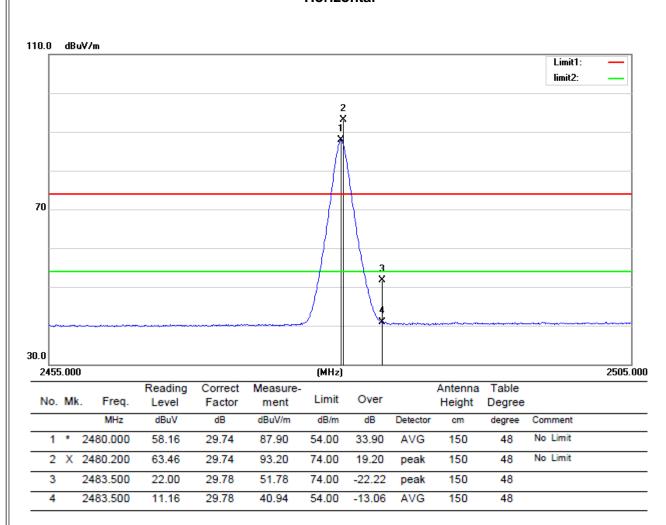
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	*	2480.100	56.16	29.74	85.90	54.00	31.90	AVG	150	132	No Limit
2	Х	2480.200	61.44	29.74	91.18	74.00	17.18	peak	150	132	No Limit
3		2483.500	21.95	29.78	51.73	74.00	-22.27	peak	150	132	
4		2483.500	10.79	29.78	40.57	54.00	-13.43	AVG	150	132	

^{*:}Maximum data x:Over limit !:over margin



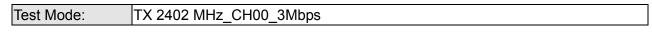


Horizontal

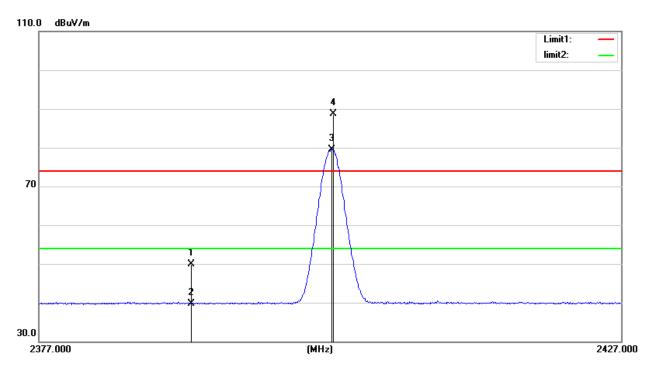


^{*:}Maximum data x:Over limit !:over margin





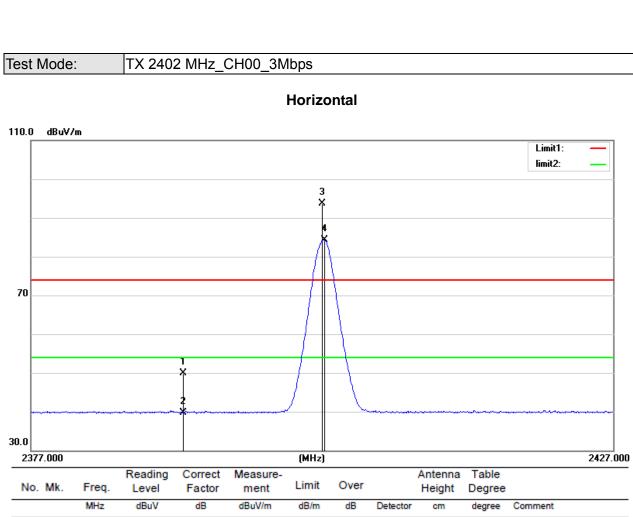
Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		2390.000	20.58	29.28	49.86	74.00	-24.14	peak	150	88	
2		2390.000	10.33	29.28	39.61	54.00	-14.39	AVG	150	88	
3	ź	2402.050	50.27	29.28	79.55	54.00	25.55	AVG	150	88	No Limit
4	Χ	2402.200	59.41	29.28	88.69	74.00	14.69	peak	150	88	No Limit

^{*:}Maximum data x:Over limit !:over margin

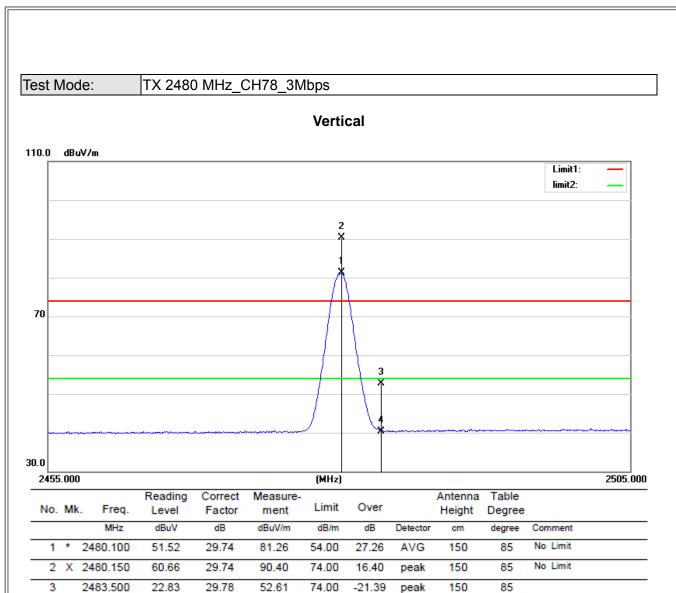




	No.	Mk	. Freq.	Level	Factor	ment	Limit	Over		Height		
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
-	1		2390.000	20.69	29.28	49.97	74.00	-24.03	peak	150	83	
	2		2390.000	10.48	29.28	39.76	54.00	-14.24	AVG	150	83	
-	3	Х	2401.850	64.52	29.28	93.80	74.00	19.80	peak	150	83	No Limit
-	4	ż	2402.100	55.10	29.28	84.38	54.00	30.38	AVG	150	83	No Limit

^{*:}Maximum data x:Over limit !:over margin





10.61

29.78

40.39

54.00

-13.61

AVG

150

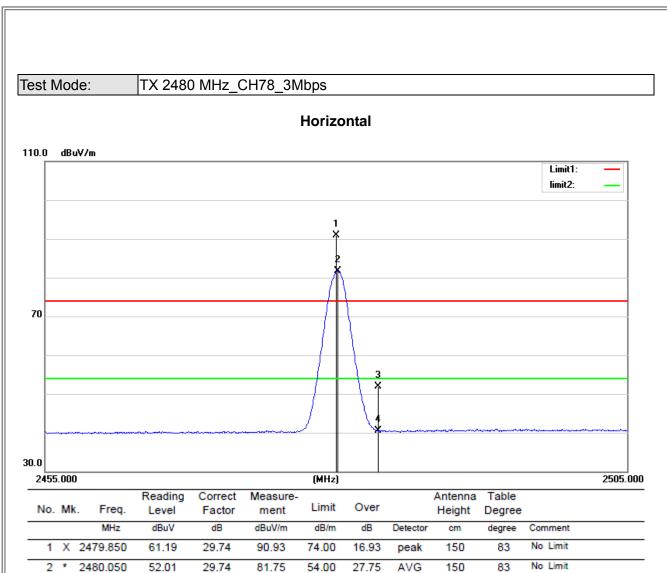
85

4

2483.500

^{*:}Maximum data x:Over limit !:over margin





*:Maximum	data	x:Over limit	!:over margin
-----------	------	--------------	---------------

22.14

10.73

29.78

29.78

51.92

40.51

74.00

54.00

-22.08

-13.49

peak

AVG

150

150

83

83

2483.500

2483.500

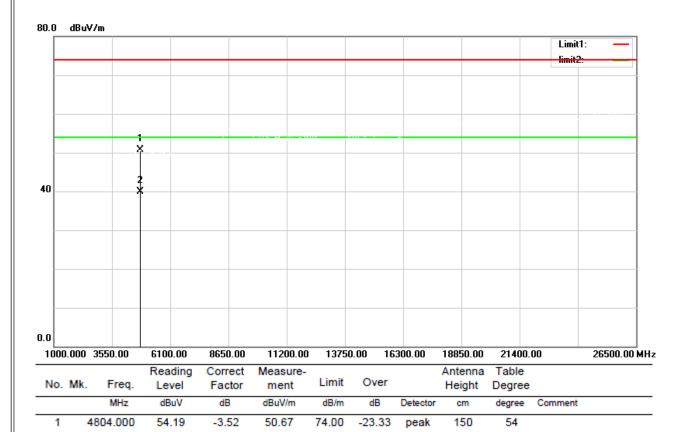
4



5.9 TEST RESULTS - ABOVE 1000MHz(HARMONIC)

Test Mode: TX 2402 MHz_CH00_1Mbps

Vertical



AVG

150

54

-14.13

4804.000

43.39

-3.52

39.87

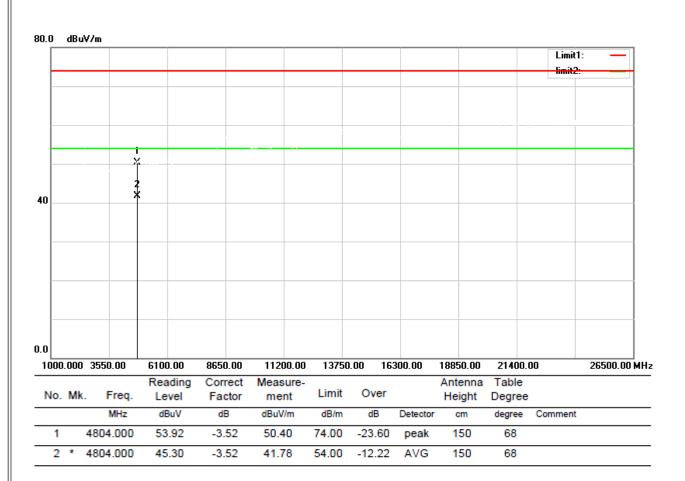
54.00

^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2402 MHz_CH00_1Mbps

Horizontal

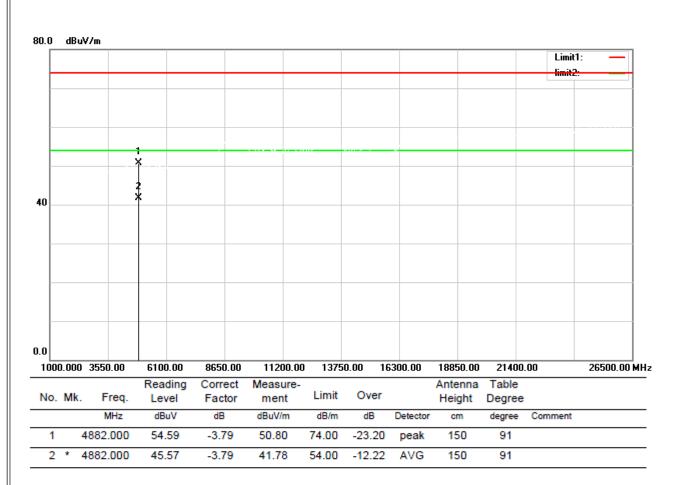


^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2441 MHz_CH39_1Mbps

Vertical

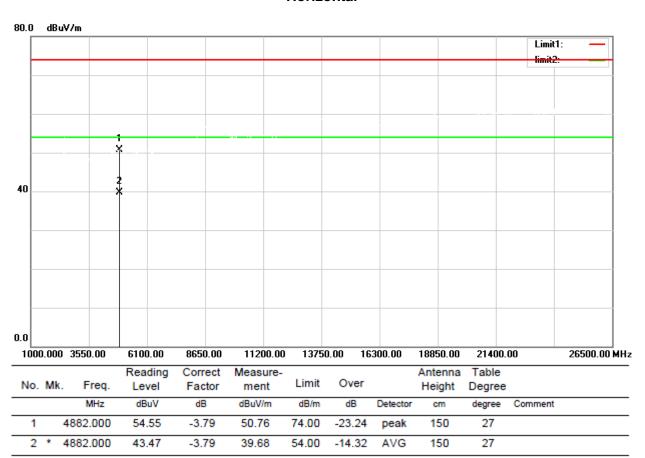


^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2441 MHz_CH39_1Mbps

Horizontal

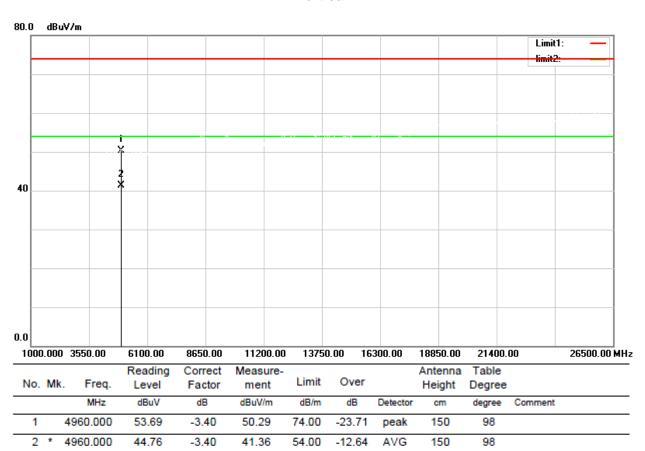


^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2480 MHz_CH78_1Mbps

Vertical

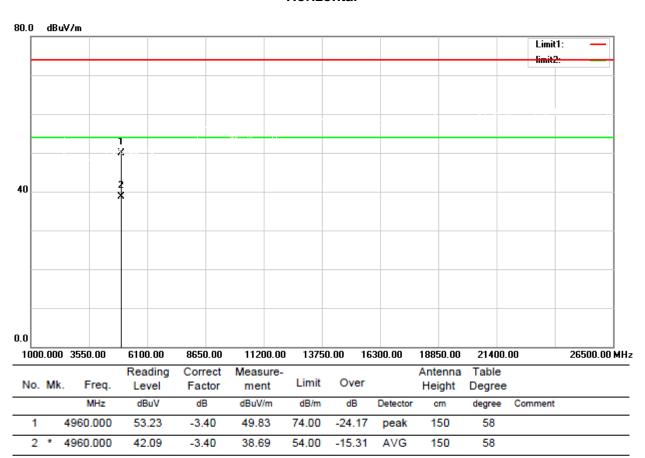


^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2480 MHz_CH78_1Mbps

Horizontal

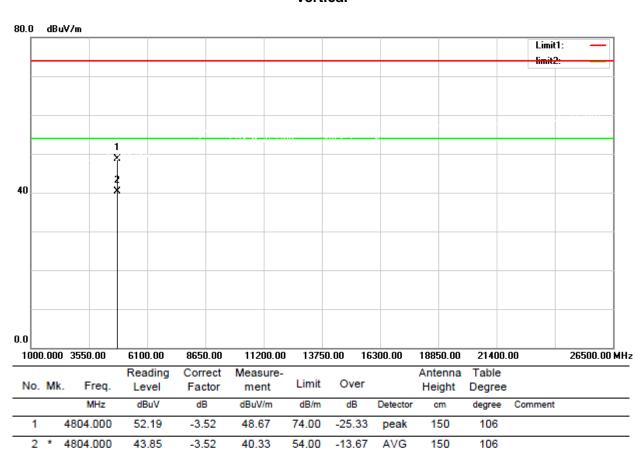


^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2402 MHz_CH00_3Mbps

Vertical

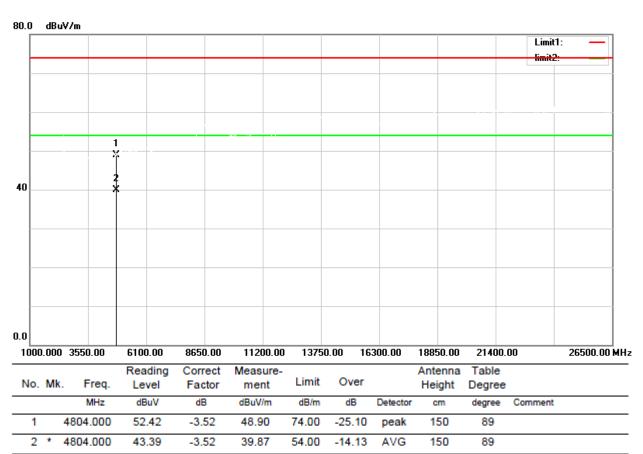


^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2402 MHz_CH00_3Mbps

Horizontal

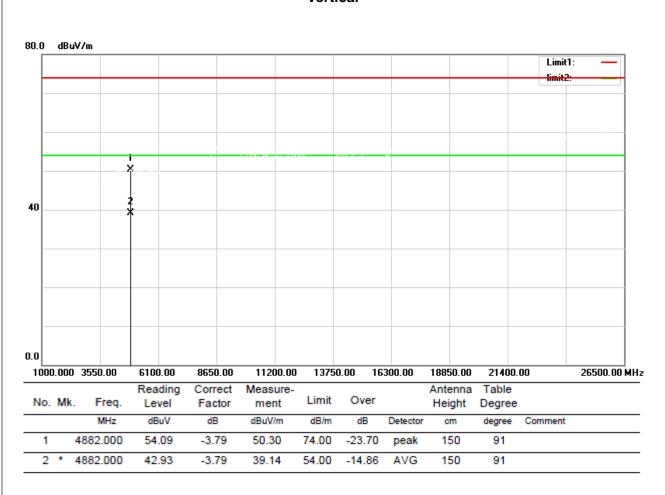


^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2441 MHz_CH39_3Mbps

Vertical

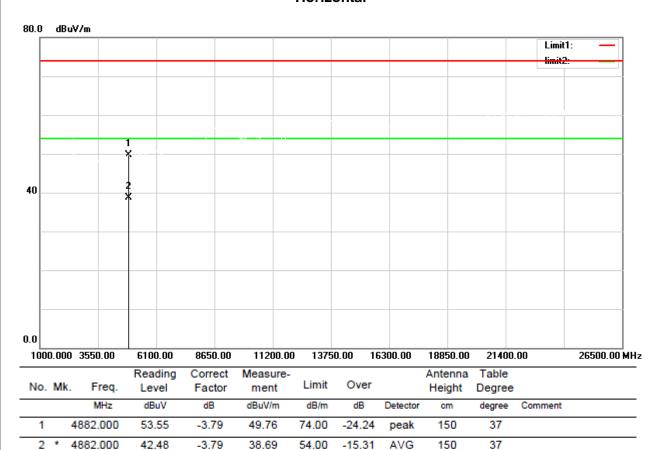


^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2441 MHz_CH39_3Mbps

Horizontal

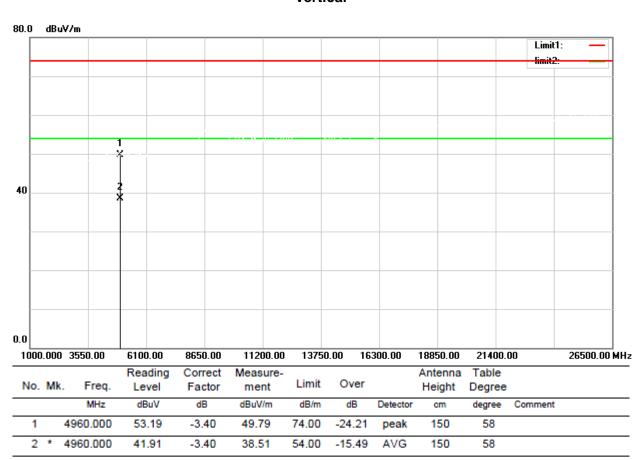


^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2480 MHz_CH78_3Mbps

Vertical

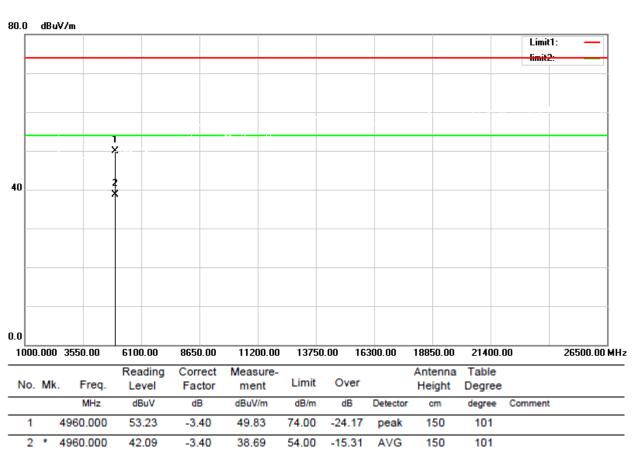


^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2480 MHz_CH78_3Mbps

Horizontal



^{*:}Maximum data x:Over limit !:over margin



6 NUMBER OF HOPPING FREQUENCY

6.1 LIMIT

FCC Part15, Subpart C (15.247)&RSS-247		
Section Test Item		
15.247(a)(1)(iii) RSS-247 5.1 (d)	Number of Hopping Frequency	

6.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW=100 kHz, VBW=300 kHz, Sweep time = Auto.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RBW	100kHz
VBW	300kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

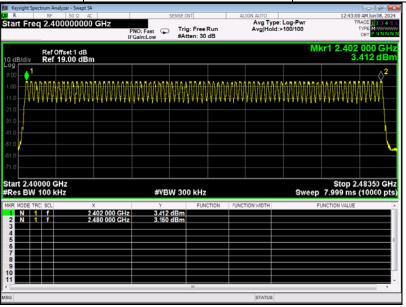
6.4 TEST SETUP



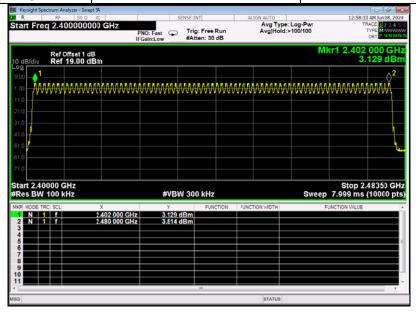
6.5 EUT OPERATION CONDITIONS



Hopping Mode_1Mbps				
Number of Hopping	Measurement result(CH)	Limit(CH)		
Frequency	79	≥15		



Hopping Mode_3Mbps				
Number of Hopping	Measurement result(CH)	Limit(CH)		
Frequency	79	≥15		





7 AVERAGE TIME OF OCCUPANCY

7.1 LIMIT

FCC Part15, Subpart C (15.247)&RSS-247				
Section Test Item Limit				
15.247(a)(1)(iii) RSS-247 5.1 (d)	0.4sec			

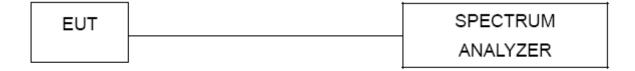
7.2 TEST PROCEDURE AND SETTING

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses
- d. Sweep Time is more than once pulse time
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span
- f. Measure the maximum time duration of one single pulse
- g. Set the EUT for DH1, DH3 and DH5 packet transmitting
- h. Measure the maximum time duration of one single pulse
- i. DH1 Packet permit maximum 1600 / 79 / 2 = 10.12 hops per second in each channel (1 time slot TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots TX, 1 time slot RX).So, the dwell time is the time duration of the pulse times 5.06 x 31.6 = 160 within 31.6 seconds
- k. DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel (5 time slots TX, 1 time slot RX).So, the dwell time is the time duration of the pulse times 3.37 x 31.6 = 106.6 within 31.6 seconds

7.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

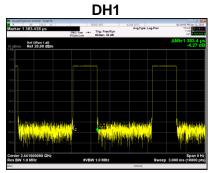
7.4 TEST SETUP

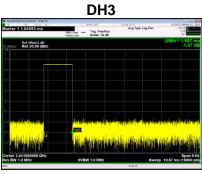


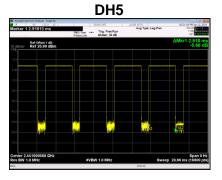
7.5 EUT OPERATION CONDITIONS



TX Mode_1Mbps				
Mode	Channel Frequency	Pulse Time	Dwell Time	Limit
Mode	(MHz)	(ms)	(ms)	(ms)
DH1	2441	0.383	122.56	400
DH3	2441	1.647	263.52	400
DH5	2441	2.918	311.06	400



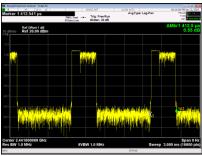






TX Mode_3Mbps					
Mode	Channel Frequency	Pulse Time	Dwell Time	Limit	
Mode	(MHz)	(ms)	(ms)	(ms)	
DH1	2441	0.412	131.84	400	
DH3	2441	1.661	265.76	400	
DH5	2441	2.918	311.06	400	

2441MHzDH1



2441MHzDH3



2441MHzDH5





8 HOPPING CHANNEL SEPARATION MEASUREMENT

8.1 LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

8.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peaks of two adjacent channels

Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span

Video (or Average) Bandwidth (VBW) ≥ RBW

Sweep = Auto

Detector function = Peak

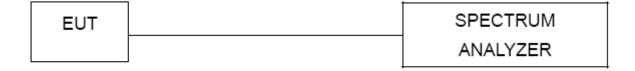
Trace = Max Hold

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RBW	10 kHz
VBW	30 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS



	TX Mode_1Mbps				
Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result	
CH00	2402	1.008	>(25KHz or 2/3*20dB Bandwidth)	PASS	
CH39	2441	1.006	>(25KHz or 2/3*20dB Bandwidth)	PASS	
CH78	2480	0.996	>(25KHz or 2/3*20dB Bandwidth)	PASS	

2402MHz 2441MHz 2480MHz











TX Mode_3Mbps					
Channel	Frequency	Channel	Limit	Result	
Chamilei	(MHz)	Separation(MHz)	(MHz)	Result	
CH00	2402	0.996	>(25KHz or 2/3*20dB	PASS	
CITIO	2402	0.990	Bandwidth)	FASS	
CH39	2441	1.002	>(25KHz or 2/3*20dB	PASS	
СПЗЭ	244 1	1.002	Bandwidth)	PASS	
CH78	2490	1 006	>(25KHz or 2/3*20dB	PASS	
CH/6	2480	1.006	Bandwidth)	FA33	









9 BANDWIDTH TEST

9.1 LIMIT

FCC Part15, Subpart C (15.247)&RSS-247				
Section Test Item				
15.247(a)(1) RSS-Gen 6.7 RSS-247 5.1 (a)	Bandwidth			

9.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 30 kHz, VBW=100 kHz, Sweep Time = Auto.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth
RBW	30kHz
VBW	100kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

9.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS



		TX Mode_1Mbps		
Channel	Frequency	20dB Bandwidth	99 % Emission Bandwidth	Result
	(MHz)	(MHz)	(MHz)	
CH00	2402	0.9291	0.8589	PASS
CH39	2441	0.9299	0.8582	PASS
CH78	2480	0.9299	0.8568	PASS







TX Mode_3Mbps					
Channel	Frequency	20dB Bandwidth	99 % Emission Bandwidth	Result	
	(MHz)	(MHz)	(MHz)		
CH00	2402	1.282	1.218	PASS	
CH39	2441	1.278	1.214	PASS	
CH78	2480	1.276	1.220	PASS	





2441MHz



2480MHz





10 MAXIMUM OUTPUT POWER

10.1 LIMIT

FCC Part15 , Subpart C (15.247)&RSS-247				
Section Test Item Limit				
15.247(a)(1) RSS-247 5.1 (b)	15.247(a)(1) Maximum Output Power 0.125Watt or 21dRm			

Note:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB band width of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

10.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 1MHz/3MHz, VBW= 1MHz/3MHz, Sweep time = Auto.

10.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

10.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

10.5 EUT OPERATION CONDITIONS



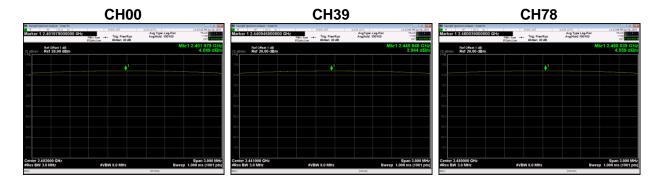
TX Mode_1Mbps					
Channal	Frequency	Output Power	Output Power	Result	
Channel	(MHz)	(dBm)	(W)	Result	
CH00	2402	4.409	0.002760	PASS	
CH39	2441	3.962	0.002490	PASS	
CH78	2480	4.062	0.002758	PASS	
Limit	21dBm /0.125W				







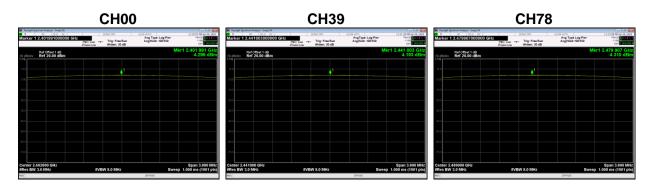
TX Mode_2Mbps						
Channal	Frequency	Output Power	Output Power	Result		
Channel	(MHz)	(dBm)	(W)	Result		
CH00	2402	4.049	0.002540	PASS		
CH39	2441	3.944	0.002480	PASS		
CH78	2480	4.059	0.002546	PASS		
Limit	21dBm /0.125W					







TX Mode_3Mbps						
Channal	Frequency	Output Power	Output Power	Result		
Channel	(MHz)	(dBm)	(W)	Result		
CH00	2402	4.296	0.002689	PASS		
CH39	2441	4.193	0.002626	PASS		
CH78	2480	4.310	0.002698	PASS		
Limit	21dBm /0.125W					





11 CONDUCTED SPURIOUS EMISSION

11.1 LIMIT

For FCC

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

For ISED

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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, provided that the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

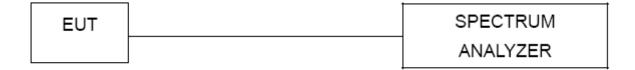
11.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- h Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = Auto.

11.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

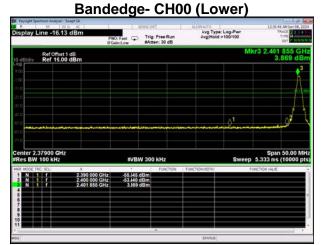
11.4 TEST SETUP

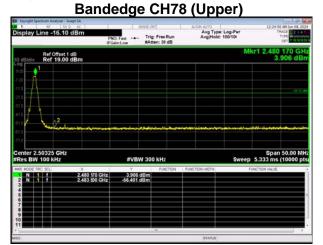


11.5 EUT OPERATION CONDITIONS

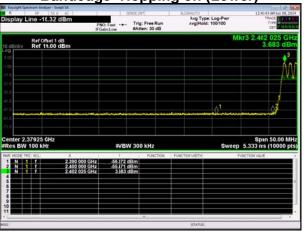


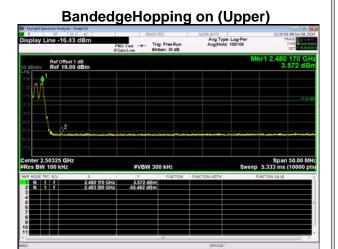
TX Mode_1Mbps



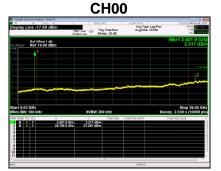


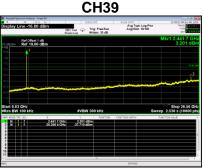
Bandedge- Hopping on (Lower)





10th Harmonic of the fundamental frequency

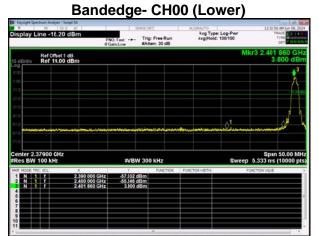


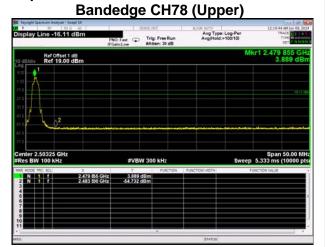




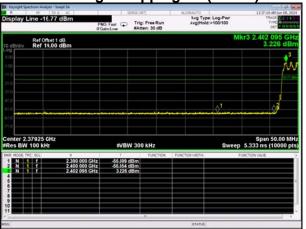


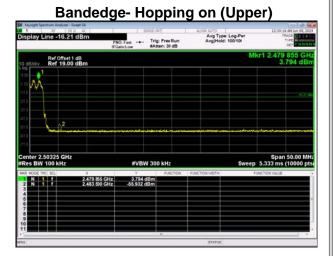
TX Mode_3Mbps



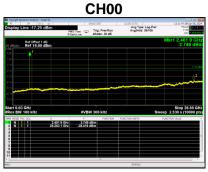


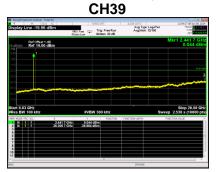
Bandedge- Hopping on (Lower)





10th Harmonic of the fundamental frequency









12 FREQUENCY STABILITY MEASUREMENT

12.1 LIMIT

RSS-Gen				
Section	Test Item	Limit	Frequency Range (MHz)	
RSS-Gen 6.11	Frequency Stability	Specified in the user's manual	2402-2480	

12.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

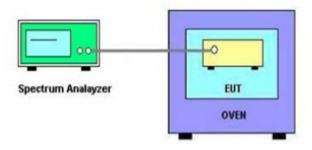
b. Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulationemissionsbandwidth
RBW	10 kHz
VBW	10kHz
Sweep Time	Auto

12.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A
4	Temperature conditioning	Guan Jian.HTH1000	-20-130°C	GJ1000-10D001	N/A
5	DC Power Supply	G.KE	IPR-10010D	010931954	N/A

12.4 TEST SETUP



12.5EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.



	Temperature vs. Frequency Stability		
Voltage	Temperature	Measurement Frequency (MHz)	
	(°C)	2480	
5.0V	0	2480.0080	
3.07	25	2480.0076	
	40	2480.0076	
4.2V	25	2480.0076	
Max. Devia	ation (MHz)	0.0080	
Max. Devia	ation (ppm)	3.23	

Note:4.2V is the end point voltage, and products below 4.2V will cease working.

END OF TEST REPORT