



# **FCC Radio Test Report**

# FCC ID: ACJ-EAH-AZ100R

#### This report concerns: Original Grant

Project No.	:	2408C031
Equipment	:	Digital Wireless Stereo Earphones
Brand Name	:	Technics
Test Model	:	EAH-AZ100
Series Model	:	N/A
Applicant	:	Panasonic Corporation of North America
Address	:	Two Riverfront Plaza, Newark, New Jersey 07102-5490 United States
Manufacturer	:	Panasonic Entertainment & Communication Co., Ltd.
Address	:	1-10-12 Yagumo-higashi-machi, Moriguchi City, Osaka 570-0021, Japan
Factory	:	Panasonic System Networks Malaysia Sdn. Bhd.
Address	:	PLO No.1, Kawasan Perindustrian Senai, K B No. 104, 81400 Senai,
		Johor Darul Takzim. Malaysia
Date of Receipt	:	Aug. 16, 2024
Date of Test	:	Aug. 19, 2024 ~ Sep. 19, 2024
Issued Date	:	Oct. 12, 2024
<b>Report Version</b>	:	R00
Test Sample	:	Engineering Sample No.: DG2024081627
Standard(s)	:	FCC CFR Title 47, Part 15, Subpart C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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#### Declaration

**B**TL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL'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. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

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**BTL**'s laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

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

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

#### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective. Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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### **REPORT ISSUED HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2408C031	R00	Original Report.	Oct. 12, 2024	Valid



### 1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of A2LA: KDB 558074 D01 15.247 Meas Guidance v05r02

### 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C					
Standard(s) Section	Test Item	Test Result	Judgment	Remark	
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS		
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS		
15.247(a)(2)	Bandwidth	APPENDIX E	PASS		
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS		
15.247(d)	Conducted Spurious Emission	APPENDIX G	PASS		
15.247(e)	Power Spectral Density	APPENDIX H	PASS		
15.203	Antenna Requirement		PASS	Note(2)	

Note:

(1) "N/A" denotes test is not applicable to this device.

(2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.



### 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Dalang, Dongguan City, Guangdong People's Republic of China. BTL's Registration Number for FCC: 747969 BTL's Designation Number for FCC: CN1377

BTL's Designation Number for FCC: CN1377

### 2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95.45% confidence level (based on a coverage factor (k=2)) The BTL measurement uncertainty as below table:

A. AC power line conducted emissions Measurement:

Test Site	Method	Measurement Frequency Range	<i>U</i> ,(dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.88

#### B. Radiated emissions Measurement:

Test Site	Method	Measurement Frequency Range	<i>U</i> ,(dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	<i>U</i> ,(dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	Н	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	Н	3.98

Test Site	Method	Measurement Frequency Range	<i>U</i> ,(dB)
DG-CB03	CISPR	1GHz ~ 6GHz	4.08
(3m)	CISER	6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	<i>U</i> ,(dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.36



### C. Other Measurement:

**BIL** 

Test Item	Uncertainty
Bandwidth	0.90 %
Maximum Output Power	1.3 dB
Conducted Spurious Emission	1.9 dB
Power Spectral Density	1.4 dB
Temperature	0.8 °C
Humidity	2.2 %

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

### 2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
AC Power Line Conducted Emissions	25°C	50%	AC 120V/60Hz	Hayden Chen	Aug. 21, 2024
Radiated Emissions-9 kHz to 30 MHz	25°C	46%	DC 5V	Hayden Chen	Aug. 22, 2024
Radiated Emissions-30 MHz to 1000 MHz	24°C	53%	DC 5V	Chen Mo	Aug. 21, 2024
Radiated Emissions-Above 1000	24°C	53%	DC 5V	Chen Mo	Aug. 20, 2024
MHz	24°C	54%	DC 5V	Calvin Wen	Sep. 04, 2024
Bandwidth	22°C	56%	DC 5V	Jaylan Li	Aug. 22, 2024
Maximum Output Power	22°C	56%	DC 5V	Jaylan Li	Aug. 22, 2024
Conducted Spurious Emission	22°C	56%	DC 5V	Jaylan Li	Aug. 22, 2024
Power Spectral Density	22°C	56%	DC 5V	Jaylan Li	Aug. 22, 2024



### **3. GENERAL INFORMATION**

### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Digital Wireless Stereo Earphones
Brand Name	Technics
Test Model	EAH-AZ100
Series Model	N/A
Model Difference(s)	N/A
Hardware Version	Engineering Prototype
Software Version	SW0.098[JNZ1ZA]
Earphone	Right Earphone
Power Source	For Earphones: 1# Supplied from charging case. 2# Supplied from battery. Model: 1454 For Charging Case: 1# Supplied from USB port. 2# Supplied from battery. Model: 941832
Power Rating	3# Supplied from wireless charging base         For Earphones:         1# 5V===0.09A x 2         2# DC 3.7V 85mAh 0.32Wh         For Charging Case:         1# 5V===2.5W         2# DC 3.7V 550mAh 2.035Wh         3# DC 5V
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Type	GFSK
Bit Rate of Transmitter	1Mbps, 2Mbps
Max. Output Power	2Mbps: 8.83 dBm (0.0076 W)

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)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

### 3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	FPC	N/A	-2



### 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_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 00/19/39
Mode 3	TX Mode_2Mbps Channel 39

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 3	TX Mode_2Mbps Channel 39	

Radiated emissions test - Below 1GHz			
Final Test Mode	Description		
Mode 3	TX Mode_2Mbps Channel 39		

Radiated emissions test - Above 1GHz		
Final Test Mode Description		
Mode 1	TX Mode_1Mbps Channel 00/19/39	
Mode 2	TX Mode_2Mbps Channel 00/19/39	

Conducted test		
Final Test Mode Description		
Mode 1	TX Mode_1Mbps Channel 00/19/39	
Mode 2	TX Mode_2Mbps Channel 00/19/39	

Note:

- (1) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (2) For AC power line conducted emissions and radiated emissions below 1 GHz test, the 2Mbps Channel 39 is found to be the worst case and recorded.
- (3) For radiated emission above 1GHz test, both Vertical and Horizontal are evaluated, only the worst case is recorded.
- (4) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.

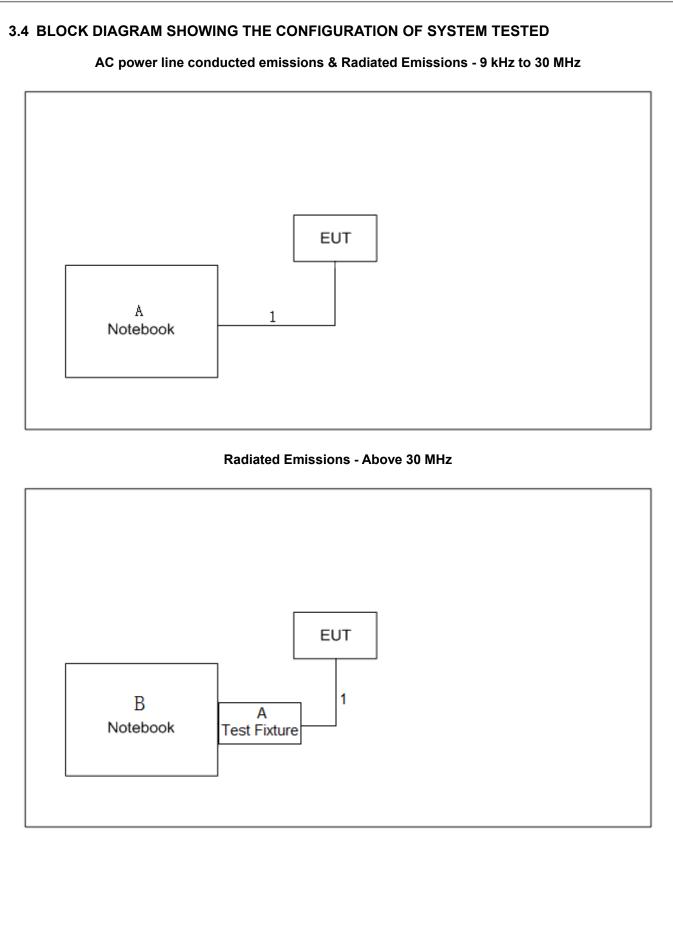


### 3.3 PARAMETERS OF TEST SOFTWARE

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test Software Version	AB158x_Airoha_Tool_Kit(ATK)_v3.10.0.6		
Frequency (MHz)	2402	2440	2480
1Mbps	48	48	49
2Mbps	48	48	49







### 3.5 SUPPORT UNITS

	Item	Equipment	Brand	Model No.	Series No.	Note
Ī			Lenovo	Pro 13	N/A	AC power line conducted emissions
	A	Notebook	Apple	A1990	N/A	Radiated Emissions – 9 kHz to 30 MHz

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	NO	NO	0.2m

#### **Radiated Emissions - Above 30 MHz**

Item	Equipment	Brand	Model No.	Series No.	Note
А	Test Fixture	N/A	N/A	N/A	-
в	Notebook	HUAWEI	WFH9	N/A	Radiated Emissions – Below 18GHz
		HONOR	NBLK-WAX9X	N/A	Radiated Emissions – Above 18GHz

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	Data Cable	NO	NO	0.2m

### **3.6 CUSTOMER INFORMATION DESCRIPTION**

 The antenna gain is provided by the manufacturer.
 Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. Part of the cable losses (0.5dB) are provided by the manufacturer, while the other parts of the cable losses are provided by the testing laboratory.





### 4. AC POWER LINE CONDUCTED EMISSIONS

### 4.1 LIMIT

Frequency of Emission (MHz)	Limit (dBµV)		
Frequency of Emission (Minz)	Quasi-peak	Average	
0.15 - 0.5	66 to 56*	56 to 46*	
0.5 - 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.

### 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.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### The following table is the setting of the receiver:

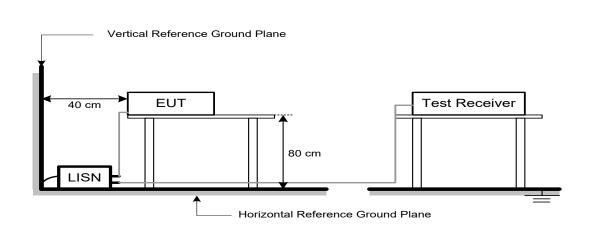
0	
Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

### 4.3 DEVIATION FROM TEST STANDARD

No deviation.



### 4.4 TEST SETUP



### 4.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

### 4.6 TEST RESULTS

Please refer to the APPENDIX A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of [Note]. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a "\*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150 kHz to 30 MHz.





### 5. RADIATED EMISSIONS

### 5.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency	Band edge/ Harmonic at 3m (dBµV/m)		Harmonic at 1m (dBµV/m)	
(MHz)	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 4)	63.5 (Note 4)

Note:

(1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.

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

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

(4)

$$FS_{\text{limit}} = FS_{\text{max}} - 20\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

20log (d<sub>limit</sub>/d<sub>measure</sub>)=20log (3/1)=9.5 dB.

FS<sub>limit</sub>: Harmonic at 3m Peak and Average limit.

FS<sub>max</sub>: Harmonic at 1m Peak and Average Maximum value.

d<sub>limit</sub>: Harmonic at 3m test distance.

d<sub>measure</sub>: Harmonic Actual test distance.



### 5.2 TEST PROCEDURE

- 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 1 GHz)
- b. The measuring distance of 3 m or 1m 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 1 GHz.
- 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 1 GHz)
- 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 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	1 MHz / 3 MHz for PK value
(Emission in restricted band)	1 MHz / 1/T Hz for AVG value

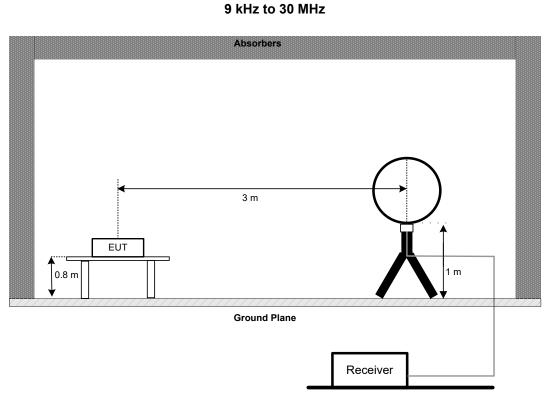
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector



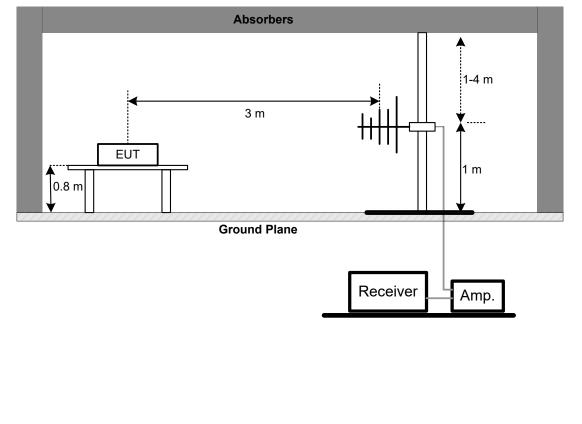
## 5.3 DEVIATION FROM TEST STANDARD

No deviation.

### 5.4 TEST SETUP

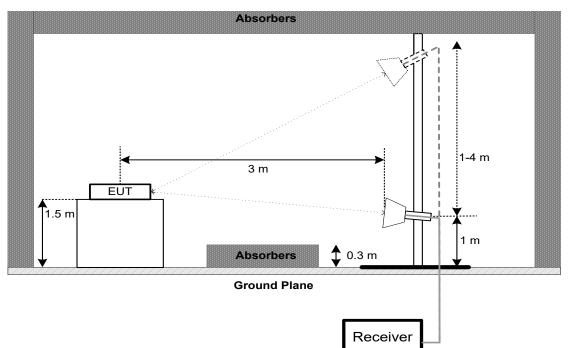


30 MHz to 1 GHz

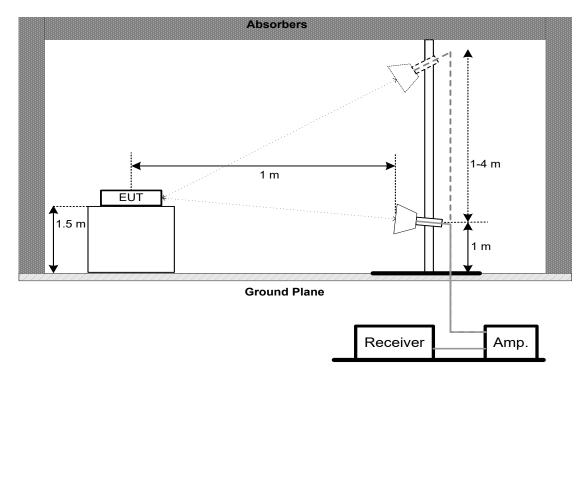




Above 1 GHz Band edge & Harmonic (1 GHz to 18 GHz)



### Harmonic (18 GHz to 26.5 GHz)





### 5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 5.6 TEST RESULT - 9 kHz TO 30 MHz

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

#### 5.7 TEST RESULT - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

#### 5.8 TEST RESULT - ABOVE 1000 MHz

Please refer to the APPENDIX D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.



### 6. BANDWIDTH

#### 6.1 LIMIT

Section	Test Item	Limit
	6 dB Bandwidth	>= 500 kHz
FCC 15.247(a)(2)	99% Emission Bandwidth	-

#### 6.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

Spectrum Parameters	Setting				
Span Frequency	> Measurement Bandwidth				
RBW	100 kHz				
VBW	300 kHz				
Detector	Peak				
Trace	Max Hold				
Sweep Time	Auto				

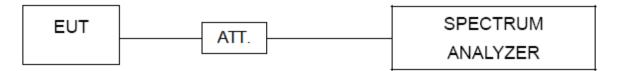
#### For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	30 kHz
VBW	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time Auto	

**6.3 DEVIATION FROM STANDARD** 

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 6.6 TEST RESULTS

Please refer to the APPENDIX E.



### 7. MAXIMUM OUTPUT POWER

#### 7.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 watt or 30.00 dBm

#### 7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	≥ 3×RBW
RBW	3 MHz
VBW	3 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 7.6 TEST RESULTS

Please refer to the APPENDIX F.





### 8. CONDUCTED SPURIOUS EMISSION

### 8.1 LIMIT

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.

### 8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



### **8.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

#### 8.6 TEST RESULTS

Please refer to the APPENDIX G.



### 9. POWER SPECTRAL DENSITY

#### 9.1 LIMIT

Section	Section Test Item	
FCC 15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

### 9.2 TEST PROCEDURE

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

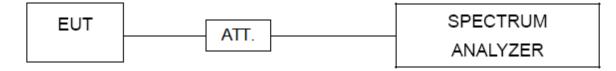
b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	2 MHz (1 Mbps) / 4 MHz (2 Mbps)
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

#### 9.3 DEVIATION FROM STANDARD

No deviation.

#### 9.4 TEST SETUP



#### 9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 9.6 TEST RESULTS

Please refer to the APPENDIX H.



### **10. MEASUREMENT INSTRUMENTS LIST**

	AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	EMI TEST RECEIVER	R&S	ESCI	100382	Dec. 22, 2024	
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 22, 2024	
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
4	Cable	N/A	SFT205-NMNM-9M -001	9M	Nov. 27, 2024	
5	643 Shield Room	ETS	6*4*3	N/A	N/A	

	Radiated Emissions - 9 kHz to 30 MHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60 B-034	Mar. 30, 2025		
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 22, 2024		
3	Cable	N/A	RW2350-3.8A-NMB M-1.5M	N/A	Jun. 09, 2025		
4	Cable	N/A	RG 213/U	N/A	Jun. 09, 2025		
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
6	966 Chamber room	ETS	9*6*6	N/A	May 16, 2025		

	Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	1462	Dec. 13, 2024	
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 13, 2024	
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	Nov. 17, 2024	
4	Cable	RegalWay	LMR400-NMNM-12 .5m	N/A	Jun. 06, 2025	
5	Cable	RegalWay	LMR400-NMNM-3 m	N/A	Jun. 06, 2025	
6	Cable	RegalWay	LMR400-NMNM-0. 5m	N/A	Jun. 06, 2025	
7	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024	
8	Positioning Controller	MF	MF-7802	N/A	N/A	
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
10	966 Chamber room	CM	9*6*6	N/A	May 16, 2025	



	Radiated Emissions - Above 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024		
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Nov. 17, 2024		
3	Double Ridged Guide Antenna	ETS	3115	75789	Jun. 15, 2025		
4	Cable	RegalWay	RWLP50-4.0A-SMSM -12.5M	N/A	Jul. 03, 2025		
5	Cable	RegalWay	RWLP50-4.0A-NMRA SM-2.5M	N/A	Jul. 03, 2025		
6	Cable	RegalWay	RWLP50-4.0A-NMRA SMRA-0.8M	N/A	Jul. 03, 2025		
7	966 Chamber room	СМ	9*6*6	N/A	May 19, 2025		
8	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A		
9	Filter	STI	STI15-9912	N/A	May. 31, 2025		
10	Positioning Controller	MF	MF-7802	N/A	N/A		
11	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
12	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 17, 2025		
13	Cable	RegalWay	RWLP50-2.6A-2.92M 2.92M-1.1M	N/A	Jul. 25, 2025		
14	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025		
15	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 16, 2025		

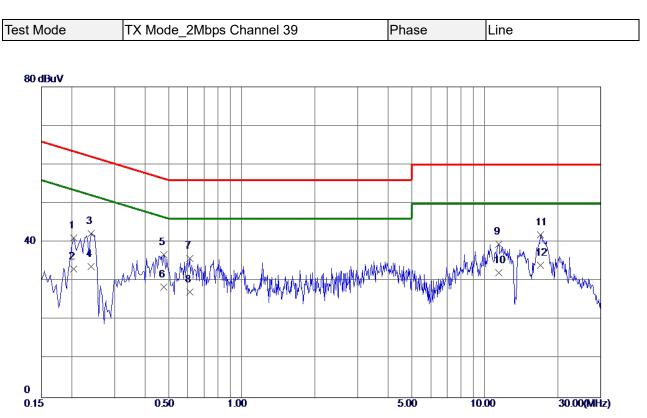
Bandwidth & Maximum Output Power & Power Spectral Density & Conducted Spurious Emission						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP38	100852	May 31, 2025	
2	2 Measurement BTL BTL Conducted N/A N/A					
3	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A	

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of equipment list is one year.



# **APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS**

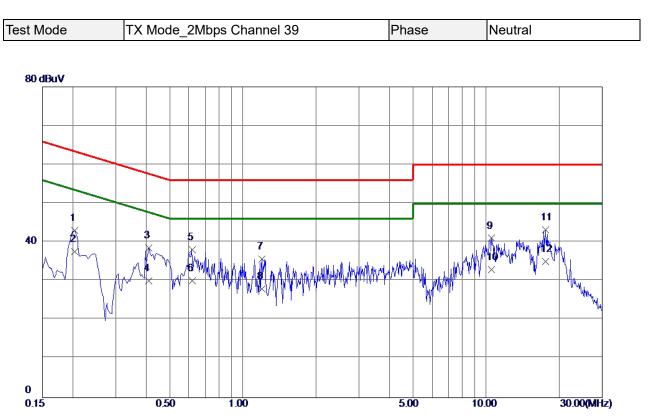




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2040	31.18	9.99	41.17	63.45	-22. 28	QP	
2	0.2040	23.10	9.99	33. 09	<b>53.45</b>	-20.36	AVG	
3	0.2400	32.25	10.05	42.30	62.10	-19. 80	QP	
4	0.2400	23.69	10.05	33.74	52. 1 <b>0</b>	-18.36	AVG	
5	0.4785	26.25	10. 58	36.83	56.37	-19. 54	QP	
6	0.4785	17.90	10. 58	28.48	46.37	-17.89	AVG	
7	0.6134	25.00	10.85	35.85	56.00	-20. 15	QP	
8	0.6134	16.40	10.85	27.25	46.00	-18.75	AVG	
9	11. 4180	27.23	12.33	39. 56	60.00	-20.44	QP	
10	11. 4180	19.79	12.33	32.12	50.00	-17.88	AVG	
11	16. 9890	28.45	13. 53	41.98	60.00	-18. <b>0</b> 2	QP	
12 *	16. 9890	20.60	13. 53	34.13	50.00	-15.87	AVG	

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





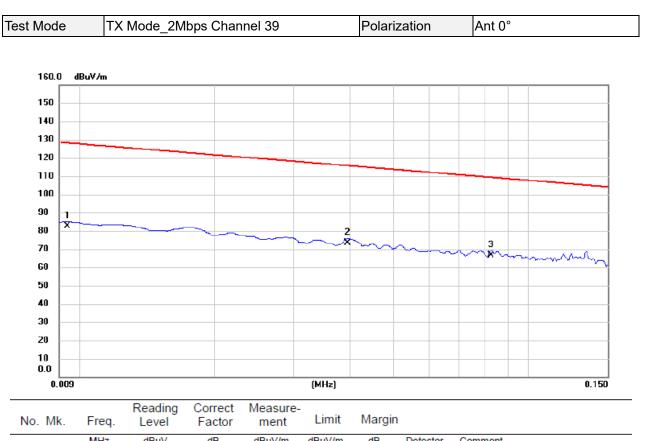
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2040	33.05	9.95	43.00	63.45	-20. 45	QP	
2	0.2040	27.60	9.95	37.55	53.45	-15. 90	AVG	
3	0.4110	28.22	10.39	38.61	57.63	-19.02	QP	
4	0. 4110	19.69	10.39	30. 08	47.63	-17. 55	AVG	
5	0.6180	27.31	10.82	38.13	56.00	-17.87	QP	
6	0.6180	19.30	10.82	30.12	46.00	-15.88	AVG	
7	1. 1985	24.35	11.28	35.63	56.00	-20.37	QP	
8	1.1985	16.70	11.28	27.98	46.00	-18. <b>0</b> 2	AVG	
9	10. 5270	28.89	12.15	41.04	60.00	-18.96	QP	
10	10. 5270	20.80	12.15	32.95	50.00	-17.05	AVG	
11	17. 5425	29.50	13.66	43.16	60.00	-16.84	QP	
12 *	17.5425	21.41	13.66	35.07	50.00	-14. 93	AVG	

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



## APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

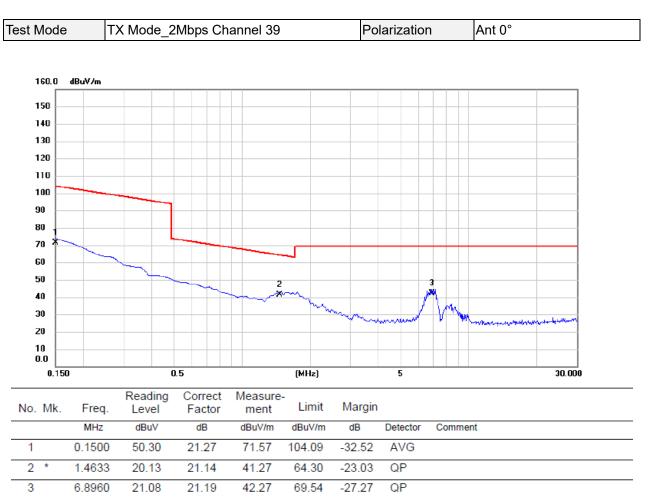




110. 1010.	rieq.	LUVUI	ractor	ment				
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0094	62.12	20.44	82.56	128.14	-45.58	AVG	
2 *	0.0396	52.13	21.15	73.28	115.65	-42.37	AVG	
3	0.0826	45.35	21.30	66.65	109.27	-42.62	AVG	

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

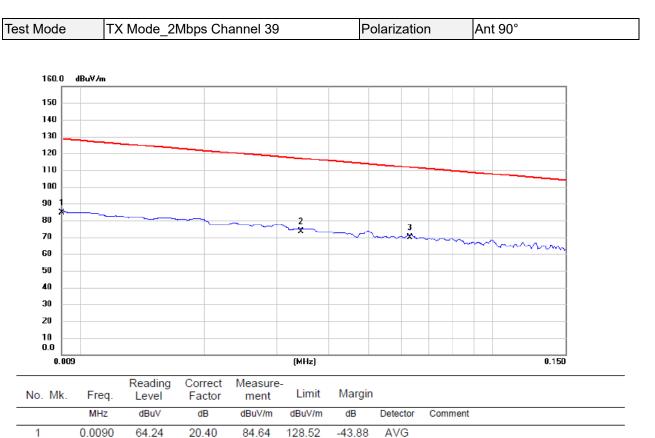




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.







2

3 \*

0.0343

0.0630

(1) Measurement Value = Reading Level + Correct Factor.

73.24

69.62

116.90

111.62

-43.66

-42.00

AVG

AVG

(2) Margin Level = Measurement Value - Limit Value.

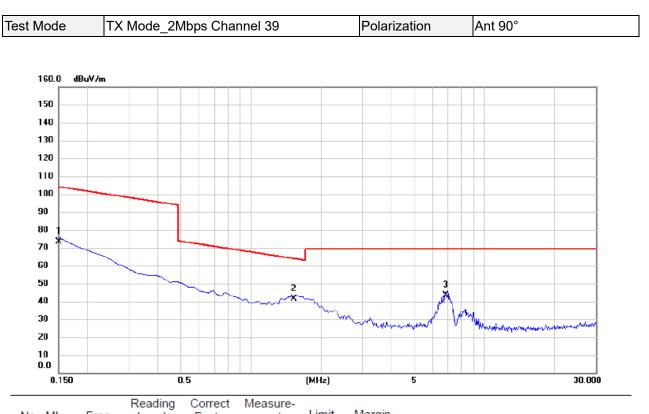
52.12

48.38

21.12

21.24





No. Mk.	Freq.	Level		ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.1500	52.32	21.27	73.59	104.09	-30.50	AVG	
2 *	1.5230	20.13	21.15	41.28	63.95	-22.67	QP	
3	6.8065	22.34	21.19	43.53	69.54	-26.01	QP	

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



## APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

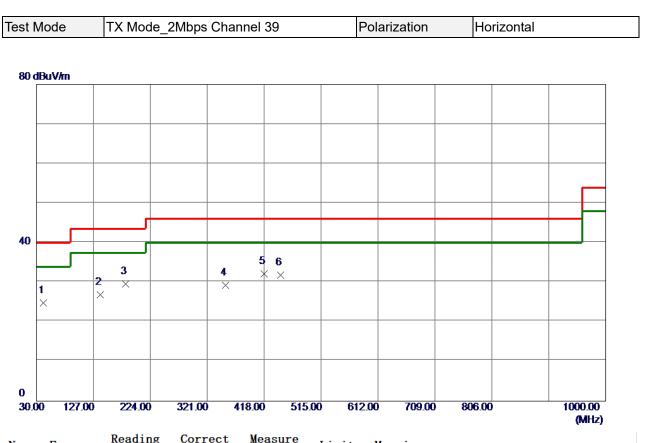




1	<b>J9</b> . JOJU JJ. 02	-11.90	23.92	40.00	-10.08	reak	
2	162.8900 35.96	-10. 96	25.00	<b>43. 5</b> 2	-18. 52	Peak	
3	261.8299 37.43	-11.97	25.46	<b>46.0</b> 2	-20. 56	Peak	
4	355. 4350 36. 83	-9.41	27.42	<b>46.0</b> 2	-18.60	Peak	
5	425.7600 37.25	-7.39	29.86	<b>46.0</b> 2	-16. 16	Peak	
6 *	505. 3000 38. 74	-5.91	32.83	46.02	-13. 19	Peak	

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





No.	Freq.	Level	Factor	ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	41.6400	36.43	-11.60	24.83	40.00	-15.17	Peak	
2	139. 1250	38.64	-11.75	26.89	43. 52	-16.63	Peak	
3	181.8049	42.15	-12. 56	29.59	43. 52	-13. 93	Peak	
4	352.0400	38.70	-9. 43	29.27	<b>46.0</b> 2	-16.75	Peak	
5 *	417. 5150	39.76	-7.60	32.16	<b>46.0</b> 2	-13.86	Peak	
6	445. 6450	38.66	- <b>6.</b> 89	31.77	<b>46.0</b> 2	-14.25	Peak	

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



## **APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ**



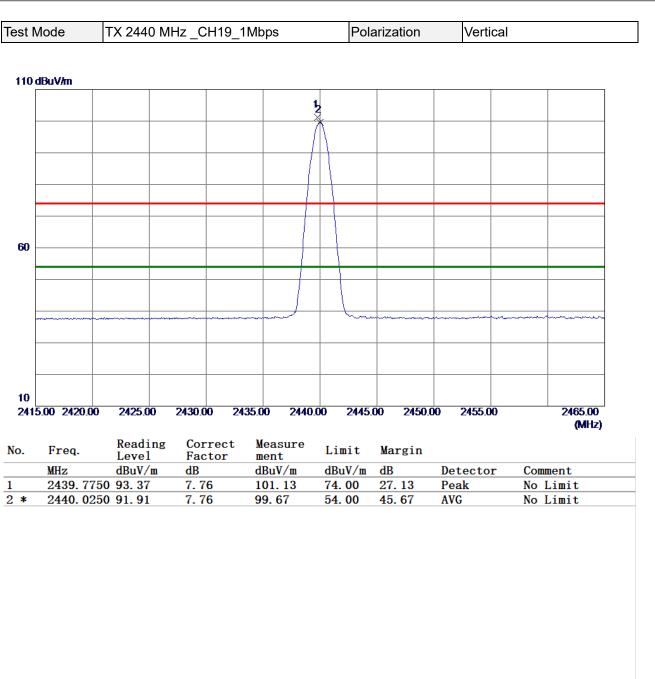
Test N	lada	TX 2402 M		1Mbpa	De	larization	Vertical	
Test	lloue	1 × 2402 1	Hz _CH00_		FU	lanzation	ventical	
110	dBuV/m							
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40								
10 237	7.00 2382.0	0 2387.00	2392.00 2	2397.00 2402	2.00 2407	7.00 2412.	00 2417.00	2427.00
								(MHz)
No.	Freq.	Reading	Correct	Measure	Limit	Margin		
NO.		Level	Factor	ment			<b>D</b> ( )	0
1	MHz 2390_00	dBuV/m 00 38.49	dB 7. 70	dBuV/m 46. 19	<u>dBuV/m</u> 74.00	dB -27.81	Detector Peak	Comment
2		00 29.93	7.70	37.63	54.00	-16. 37	AVG	
3 *		00 92.99	7.71	100.70	54.00	46.70	AVG	No Limit
4	2402.27	<b>50 94.4</b> 1	7.71	102.12	74.00	28.12	Peak	No Limit

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



	Node	TX 2402	MHz_C	CH00_1N	/lbps	Pol	arization	Ho	rizonta	al	
30 c	lBuV/m										
				2							
				× 1							
				×							
30									_		
									_		
									_		
-20											
100	0.00 2700.00	) 4400.00	6100.0	0 780	0.00 9500.	00 1120	0.00 12900	00 1460	0.00	1	8000.00 (MHz)
	<b>F</b>	Readin	ng Cor	rect	Measure	Linit					(111122)
<b>D.</b>	Freq.	Level	Fac								
				tor	ment	Limit	Margin	Detect		Common	
*		dBuV/n 00 29.76	n dB 9.4	4	ment dBuV/m 39.20	dBuV/m 54.00	dB -14. 80	Detect AVG	or	Commen	t
*	7205.44	dBuV/1	ı dB	4	dBuV/m	dBuV/m	dB		or	Commen	t
*	7205.44	dBuV/n 00 29.76	n dB 9.4	4	dBuV/m 39. 20	dBuV/m 54.00	dB -14. 80	AVG	or	Commen	t





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



st Mod	le	TX 2440	MHz_	CH1	9_1Mt	ps		Pol	ariza	ition		Horiz	zonta	al	
80 dBuV	//m														
					1										
				_	×										
					<b>2</b>										
					^										
30															
-20	2700.00	4400.00	610		7800.0	0 9	9500.00	1120	0.00	12900		14600.	00		18000.00
1000.00	2100.00								0.00	12000					(MHz)
															ç
o. F	req.	Readi Level	ng C F	orrec	ct M r m	easu	re L	imit	Mai	rgin					ç
М	Hz	Level dBuV/m	F 1 dl	acto: B	г п d	ent BuV/1	n d	BuV/m	dB			tecto	r	Соп	ment
MI 73	Hz 319.080	Level	F 1 dl 9.	acto	r 11 d 4	ent	L n d 7		dB -25	rgin 5.94 5.12	De Pe AV	ak	r	Соп	
MI 73	Hz 319.080	Level dBuV/1 0 38.58	F 1 dl 9.	acto 3 48	r 11 d 4	ent BuV/1 8.06	L n d 7	BuV/m 4. 00	dB -25	5. <b>9</b> 4	Pe	ak	<u>r</u>	Con	



		1							
Test N	Node	TX 2480 M	Hz_CH39	_1Mbps	i	Po	larization	Vertical	
110	dBuV/m								
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						1			
						}			
60						$\left  \right $			
						3 ×			
						4			
						~*			
10									
	5.00 2460.00	2465.00	2470.00	2475.00	2480.	00 248	5.00 2490.	00 2495.00	2505.00 (MHz)
No.	Freq.	Reading Level	Correc Factor	men		Limit	Margin		
	MHz	dBuV/m	dB	dBu		dBuV/m		Detector	Comment
1 2 *	2479.77		7.81 7.81	100.		74.00	26.02	Peak AVG	No Limit
4 <b>*</b>	2479.973	10 90. (9	1.01	98. (	50	54.00	44.60	AVG	No Limit

74.00

54.00

-26.47

-16.20

Peak

AVG

47.53

37.80

7.81

7.81

**REMARKS**:

3

4

2483. 5000 39. 72

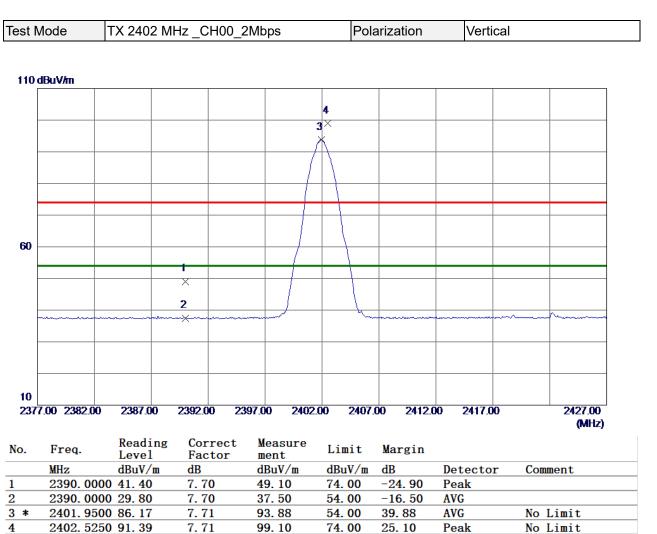
2483. 5000 29. 99

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



Image: Contract Measure Level         Limit Margin           MHz         dBuV/m         dB         dBuV/m         dB         Detector         Comment	Mode	TX 2480	MHz _CH	39_1Mbp	S	Pola	arization		Horiz	ontal	
×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×											
X         Z         X         Z           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X	) dBuV/m										
X         Z         X         Z           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X											
X         Z         X         Z           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X											
×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×											
X         Z         X         Z           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X           0         X         X         X         X											
X       Z       X       Z         30       X       X       X       X         30       X       X       X       X       X         X       X       X       X       X       X         X       X       X       X       X       X											
2         2         30         X         30         X         30         X         30         30         X         30         30         30         X         30         30         X         30         30         30         X         30         30         30         X         30         30         X         30         30         X         30         30         30         X         30         30         X         30         30         30         X         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30 </td <td></td>											
30         ×         Image: Contract Measure ment         Imit         Margin           MHz         dBuV/m         dB         dBuV/m         dB         Detector         Comment           7439.3300         37.67         9.53         47.20         74.00         -26.80         Peak											
20         .         .         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dB         Detector         Comment           7439.3300         37.67         9.53         47.20         74.00         -26.80         Peak											
20											
I000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000.00         (MHz)           0.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           7439.3300         37.67         9.53         47.20         74.00         -26.80         Peak	'										
MHz         Buv/m         B											
MHz         Buv/m         B											
MHz         Buv/m         B											
MHz       Reading Level       Correct Factor       Measure ment       Limit       Margin         MHz       dBuV/m       dB       dBuV/m       dB       Detector       Comment         7439.3300       37.67       9.53       47.20       74.00       -26.80       Peak											
MHz         Buv/m         B											
MHz         dBuV/m         dB         dBuV/m         dB         UV/m         dB         Description         Correct         Correct         Correct         Margin         Correct         Margin         Correct         Margin         Correct         Margin         Correct         Correct         Margin         Corr											
MHz         Buv/m         B											
MHz       Reading Level       Correct Factor       Measure ment       Limit       Margin         MHz       dBuV/m       dB       dBuV/m       dB       Detector       Comment         7439.3300       37.67       9.53       47.20       74.00       -26.80       Peak											
Freq.Reading LevelCorrect FactorMeasure mentLimitMarginMHzdBuV/mdBdBuV/mdBDetectorComment7439.330037.679.5347.2074.00-26.80Peak	00.00 2700.0	0 4400.00	6100.00	7800 00	0500.00	11200	).00 12900	0.00	14600.0	0	18000
MHz         Level         Factor         ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           7439.3300         37.67         9.53         47.20         74.00         -26.80         Peak					5500.00						
7439. 3300 37. 67 9. 53 47. 20 74. 00 -26. 80 Peak		Readin									
		Readin Level	g Corre	ect Mea	asure					-	
* 7439.3400 28.96 9.53 38.49 54.00 -15.51 AVG	MHz	Level dBuV/m	g Corro Facto dB	ect Mea or men dBu	asure nt 1V/m	Limit dBuV/m	Margin dB	De	tector		(Mł
	MHz 7439.33	Level dBuV/m 300 37.67	g Corro Facto dB 9.53	ect Mea or men dBu 47.	asure nt 1V/m 20	Limit <u>dBuV/m</u> 74.00	Margin dB -26.80	De Pe	tector ak		(Mł
	MHz 7439.33	Level dBuV/m 300 37.67	g Corro Facto dB 9.53	ect Mea or men dBu 47.	asure nt 1V/m 20	Limit <u>dBuV/m</u> 74.00	Margin dB -26.80	De Pe	tector ak		(Mł



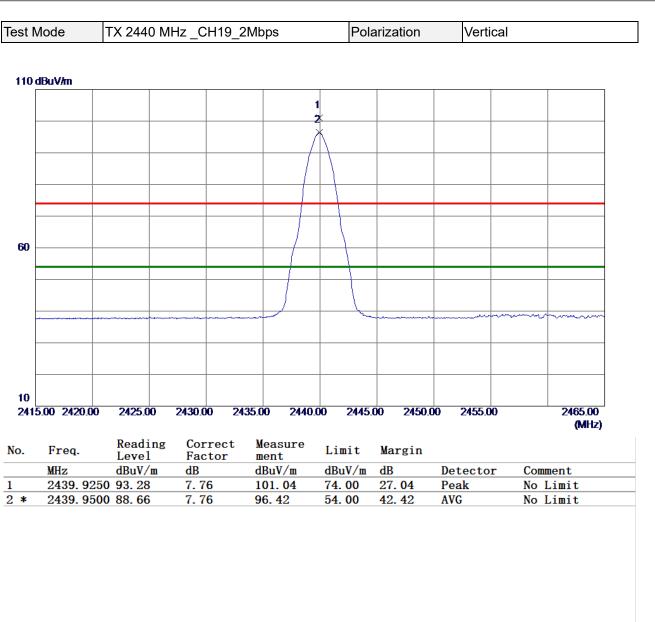


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



0 dBuV/m							
0 dBuV/m							
			2 ×				
			1				
			×				
0							
0							
000.00 2700.0	0 4400.00	6100.00 7	800.00 9500	.00 11200	).00 12900	.00 14600.00	) 18000.0 (MHz)
	Reading	Correct	Measure				<b>,</b> ,
Freq.	Level	Factor	ment	Limit	Margin		
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	500         25.48           400         35.61	9. 44 9. 44	34. 92 45. 05	54.00 74.00	-19.08 -28.95	AVG Peak	



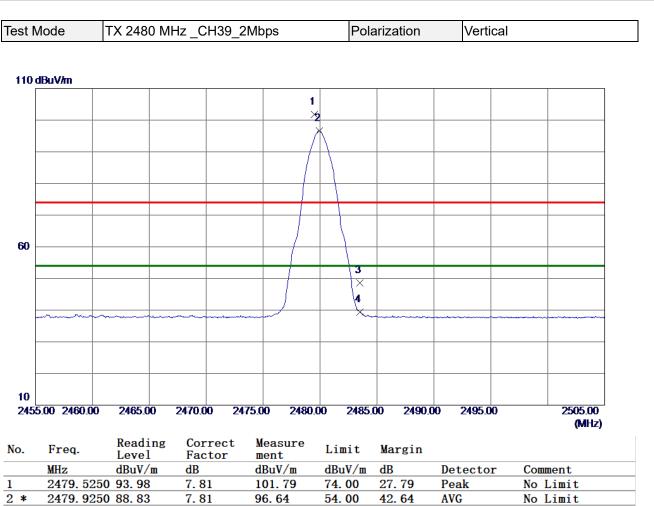


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



0 dBuV/m			2 ×				
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0							
k0							
0							
80							
30			1				
0			×				
20							
1000.00 2700.00	4400.00	6100.00 7	800.00 9500	.00 11200	0.00 12900	.00 14600.00	18000.00 (MHz)
Ener	Reading	Correct	Measure	Limit	Manada		ç
. Freq. MHz	Level dBuV/m	Factor dB	ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
	00 26. 21	9. 48	35. 69	54. 00	-18. 31	AVG	Comment
7320. 10	00 36.14	9.48	45.62	74.00	-28.38	Peak	





74.00

54.00

-25.44

-14.59

Peak

AVG

REMARKS:

3

4

2483. 5000 40. 75

2483. 5000 31. 60

(1) Measurement Value = Reading Level + Correct Factor.

7.81

7.81

48.56

39.41

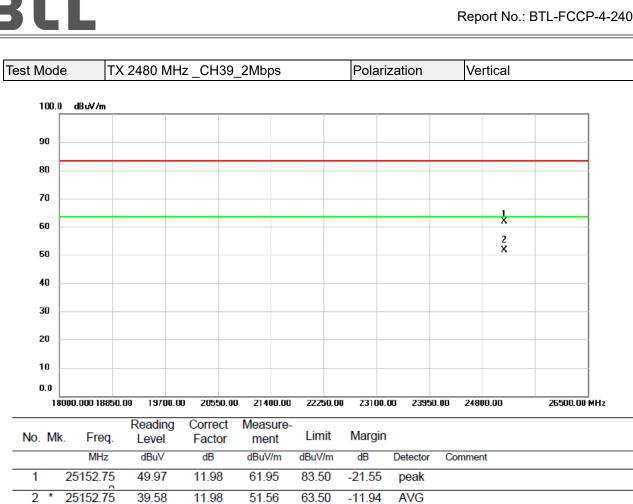
(2) Margin Level = Measurement Value - Limit Value.



	lode	TX 2480 M	<u>112 _0139</u> _	_ <u></u>	3	101	arization	Horizor	ilai	
<b>0 d</b>	BuV/m									
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00Ū	0.00 2700.00			7800.00		.00 1120	0.00 12900	0.00 14600.00	18000.00 (MHz)	
	Freq.	Reading Level	Correct Factor	Meanne	asure nt	Limit	Margin			
	MHz	dBuV/m	dB	dBı	ıV/m	dBuV/m		Detector	Comment	
		00 36.78	9. 53		31	74.00	-27.69	Peak		
¢	7438.62	00 26.73	9.53	36.	26	54.00	-17.74	AVG		

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

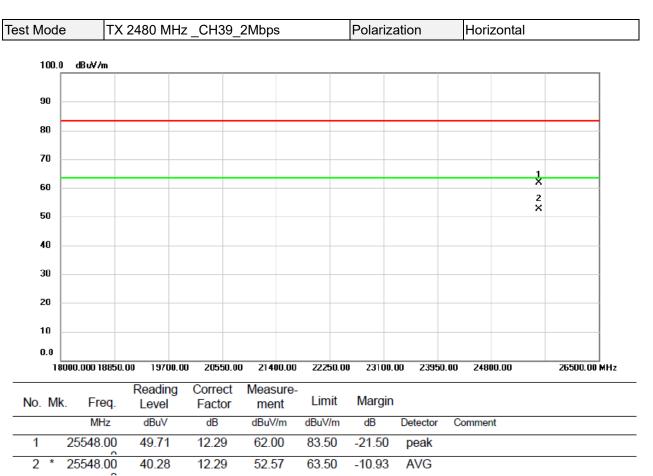




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.







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

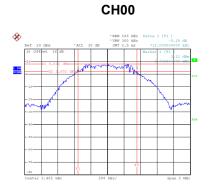


## **APPENDIX E - BANDWIDTH**

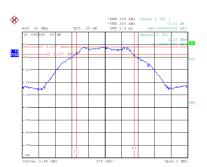




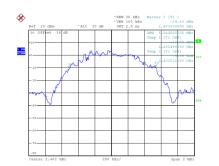
Test Mode												
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result							
00	2402	0.712	1.044	0.5	Pass							
19	2440	0.704	1.044	0.5	Pass							
39	2480	0.696	1.040	0.5	Pass							



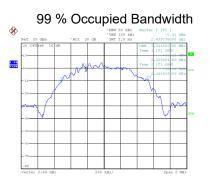
CH39



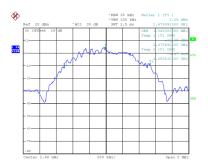
Date: 22.AUG.2024 13:59:56



Date: 22.AUG.2024 14:02:04



Date: 22.AUG.2024 14:04:33



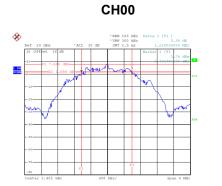
Date: 22.AUG.2024 13:59:20

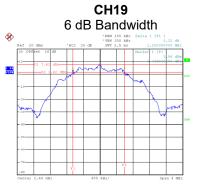
#### Date: 22.AUG.2024 14:02:10

Date: 22.AUG.2024 14:04:39

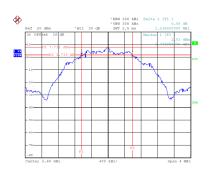


T	TX Mode _2Mbps										
	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result					
	00	2402	1.228	2.072	0.5	Pass					
	19	2440	1.250	2.072	0.5	Pass					
	39	2480	1.236	2.072	0.5	Pass					

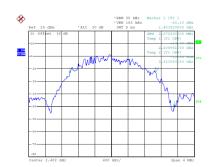




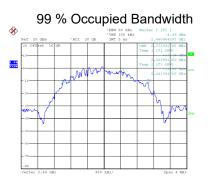
CH39



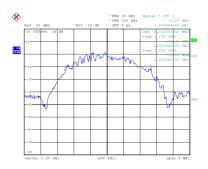
Date: 22.AUG.2024 14:06:47



Date: 22.AUG.2024 14:10:55



Date: 22.AUG.2024 14:13:30



Date: 22.AUG.2024 14:06:07

#### Date: 22.AUG.2024 14:11:00

Date: 22.AUG.2024 14:13:36

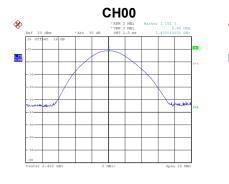


# **APPENDIX F - MAXIMUM OUTPUT POWER**

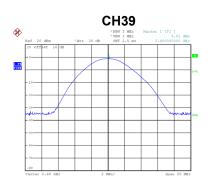


Test Mode		TX Mode _1Mbps				
	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
	2402	8.66	0.0073	30.00	1.0000	Pass
	2440	8.64	0.0073	30.00	1.0000	Pass
	2480	8.82	0.0076	30.00	1.0000	Pass

### Note: Output power = Measure result + Cable loss







Date: 22.AUG.2024 13:58:34

Date: 22.AUG.2024 14:01:17

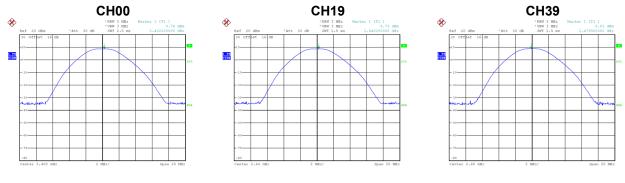


Date: 22.AUG.2024 14:12:23

### Test Mode TX Mode \_2Mbps

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	8.76	0.0075	30.00	1.0000	Pass
2440	8.73	0.0075	30.00	1.0000	Pass
2480	8.83	0.0076	30.00	1.0000	Pass

#### Note: Output power = Measure result + Cable loss

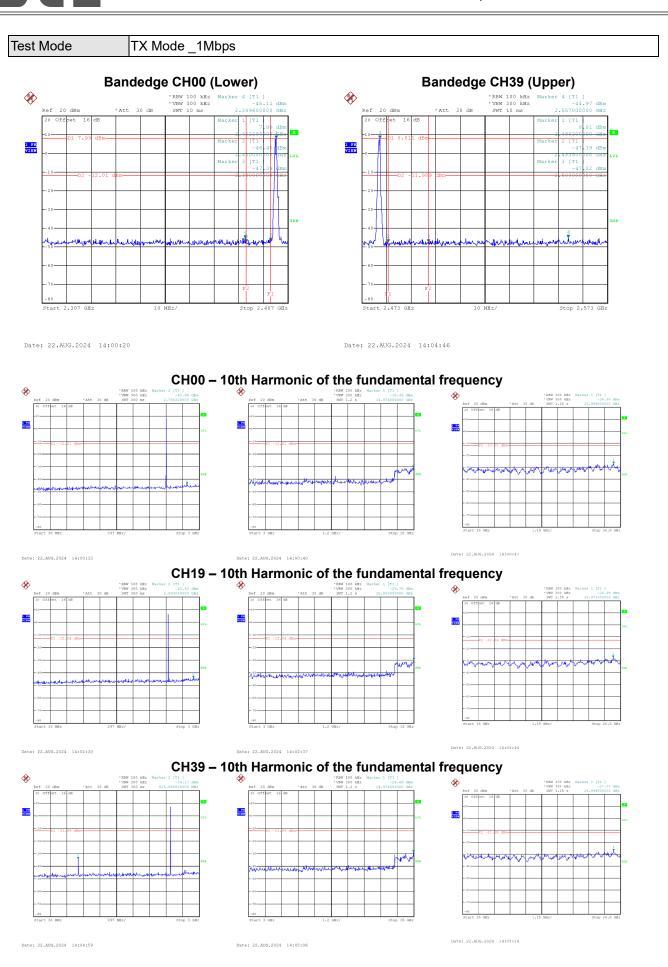


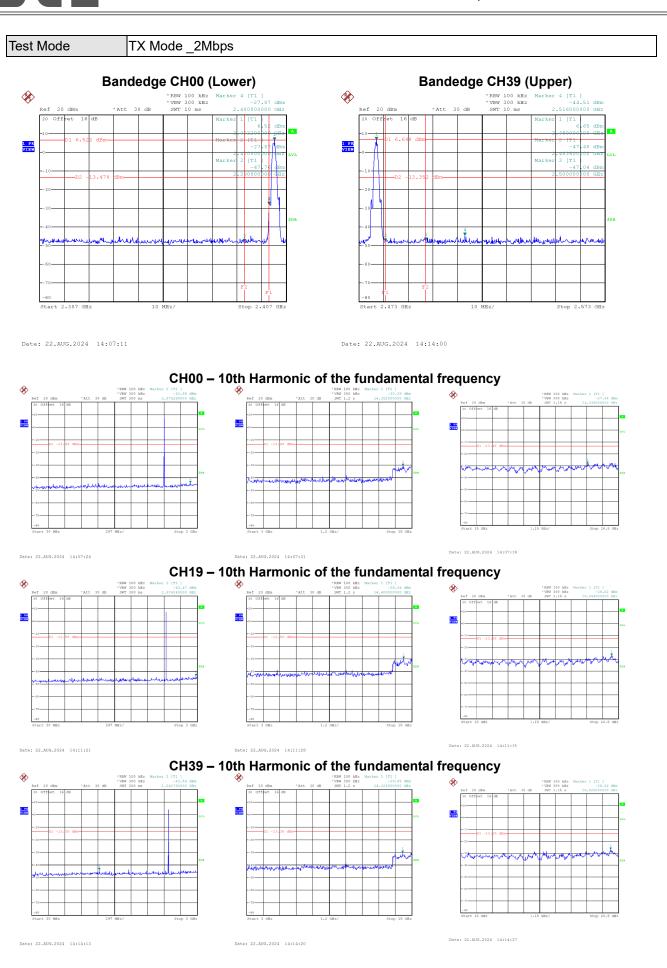
Date: 22.AUG.2024 14:08:16

Date: 22.AUG.2024 14:05:47



# **APPENDIX G - CONDUCTED SPURIOUS EMISSION**



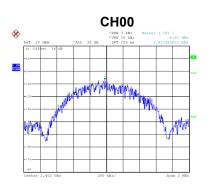




# **APPENDIX H - POWER SPECTRAL DENSITY**



Test Mode		TX Mode _1Mbps					
	Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result		
	00	2402	-6.61	8.00	Pass		
	19	2440	-7.39	8.00	Pass		
	39	2480	-6.55	8.00	Pass		





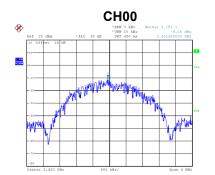


Date: 22.AUG.2024 14:00:53

Test Mode

TX Mode \_2Mbps

Power Spectral Density Frequency Max. Limit Channel Test Result (MHz) (dBm/3 kHz) (dBm/3 kHz) 00 2402 -9.16 8.00 Pass 19 2440 -9.47 8.00 Pass 39 2480 -9.37 8.00 Pass



CH19



Date: 22.AUG.2024 14:07:44

Date: 22.AUG.2024 14:11:41

Date: 22.AUG.2024 14:14:33

#### End of Test Report