



# **FCC Radio Test Report**

# FCC ID: 2A33X-S11

This report concerns: Original Grant

Project No. System Name Brand Name System Model	: : :	2409C083 QYX Pro Qianxun SI QYX Pro
Name		
Equipment	:	Tablet
Test Model	:	S11
Series Model	:	N/A
Applicant	:	Qianxun Spatial Intelligence(Zhejiang) Inc.
Address	:	No.1,Building12,Area C,Deqing Geographic Info Town,Wuyang Street,Deqing County,Huzhou City,Zhejiang Province,China
Manufacturer	:	Qianxun Spatial Intelligence(Zhejiang) Inc.
Address	:	No.1,Building12,Area C,Deqing Geographic Info Town,Wuyang Street,Deqing County,Huzhou City,Zhejiang Province,China
Date of Receipt	:	Sep. 24, 2024
Date of Test	:	Sep. 25, 2024 ~ Nov. 11, 2024
Issued Date	:	Dec. 10, 2024
Report Version	:	R01
Test Sample	:	Engineering Sample No.: DG2024092432
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.

Prepared by

: \_\_\_\_\_\_\_ Evan Yang (hay. Cai

Approved by

Chay Cai

Room 108-116, 309-310, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl\_qa@newbtl.com



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**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-2-2409C083	R00	Original Report.	Nov. 29, 2024	Invalid
BTL-FCCP-2-2409C083	R01	Modified the comments.	Dec. 10, 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 1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.

BTL's Registration Number for FCC: 747969 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



**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	Tested Date
AC Power Line Conducted Emissions	26°C	52%	AC120V/60HZ	Hayden Chen	Oct. 21, 2024
Radiated Emissions-9 kHz to 30 MHz	25°C	50%	DC 10V	Hayden Chen	Nov. 06, 2024
Radiated Emissions-30 MHz to 1000 MHz	20°C	51%	DC 10V	Calvin Wen	Oct. 20, 2024
Radiated	22°C	53%	DC 10V	Calvin Wen	Oct. 24, 2024
Emissions-Above 1000 MHz	24°C	51%	DC 10V	Chen Mo Calvin Wen	Oct. 25, 2024 Oct. 28, 2024
Bandwidth	22°C	61%	DC 10V	Avrin Tong	Oct. 18, 2024
Maximum Output Power	25°C	53%	DC 10V	Steve Zhou	Oct. 18, 2024
Conducted Spurious Emission	22°C	61%	DC 10V	Avrin Tong	Oct. 18, 2024
Power Spectral Density	22°C	61%	DC 10V	Avrin Tong	Oct. 18, 2024



#### **3. GENERAL INFORMATION**

#### 3.1 GENERAL DESCRIPTION OF EUT

System Name	QYX Pro
Brand Name	Qianxun SI
System Model Name	QYX Pro
Equipment	Tablet
Test Model	S11
Series Model	N/A
Power Source	DC Power Supply.
Power Rating	DC 9V-36V
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Type	GFSK
Bit Rate of Transmitter	1Mbps
Max. Output Power	1Mbps: 5.98 dBm (0.0040 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.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Shenzhen HE DIAN XUN Technology Co.,Ltd	SPRING2 10PRO	FPC	N/A	3.84



4.	Equipment RF specification	Automated Steering System (Model: QYX Pro receiver)	Tablet (Model: S11)	Electric steering wheel (Model: ESW1)
	GPS	support	/	/
	Bluetooth(BT+BLE)	/	BT+BLE	BLE
	WIFI	2.4G	2.4G	/
	GSM	/	/	/
	WCDMA	/	Band 2, 4, 5	/
	LTE	Band 2, 4, 5, 7, 12, 13, 25, 26, 38, 41, 66	Band 2, 4, 5, 7, 12, 13, 25, 26, 38, 41	/

Note: The system (QYX Pro) consists of three parts, automated steering system (Model: QYX Pro receiver), electric steering wheel (Model: ESW1) and tablet (Model: S11).



# 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_1Mbps Channel 19			

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_1Mbps Channel 19			

Radiated emissions test - Below 1GHz			
Final Test Mode Description			
Mode 2 TX Mode_1Mbps Channel 19			

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

Conducted test				
Final Test Mode	Final Test Mode Description			
Mode 1 TX Mode_1Mbps 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 1Mbps Channel 19 is found to be the worst case and recorded.

- (3) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (4) For radiated emission of Harmonic above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.
- (5) For radiated emission of Band edge above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Horizontal and recorded.



# 3.3 PARAMETERS OF TEST SOFTWARE

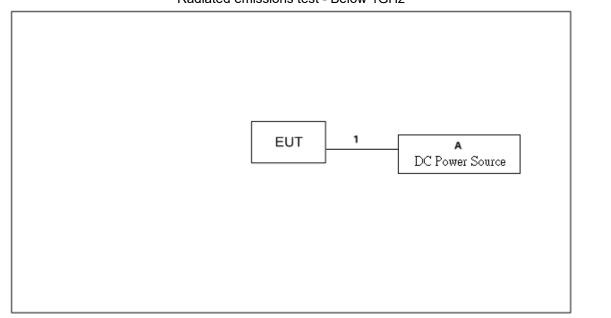
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test Software Version	ADB		
Frequency (MHz)	2402	2440	2480
1Mbps	10	10	10

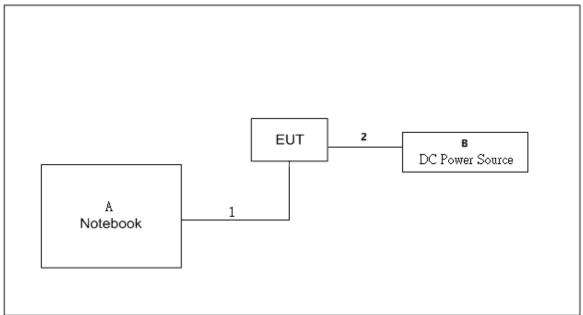


# 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated emissions test - Below 1GHz



#### Radiated emissions test - Above 1GHz





# 3.5 SUPPORT UNITS

	Radiated emissions test - Below 1GHz				
Item	Equipment	Brand Model No. Series No.		Series No.	
А	DC Power Source	UNI-T	UDP6721	AWP7224050031	

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	3.0m

#### Radiated emissions test - Above 1GHz

ľ	tem	Equipment	Brand	Model No.	Series No.
	А	Notebook	HP	Compaq 510	CNU9314Q9W
	В	DC Power Source	UNI-T	UDP6721	AWP7224050031

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	NO	NO	1.2m
2	DC Cable	NO	NO	3.0m

# 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. All cable losses are provided by the testing laboratory.





# 4. AC POWER LINE CONDUCTED EMISSIONS

#### 4.1 LIMIT

Eroquency of Emission (MHz)	Limit (dBµV)		
Frequency of Emission (MHz)	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:

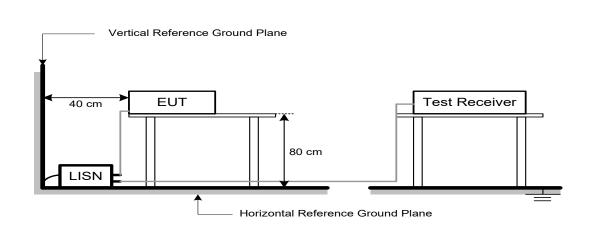
0	
Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

# 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	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 (Above 1000 MHz)

Frequency (MHz)	Band edge/ Harmonic at 3m (dBµV/m)		Harmonic at 1m (dBµV/m)	
	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

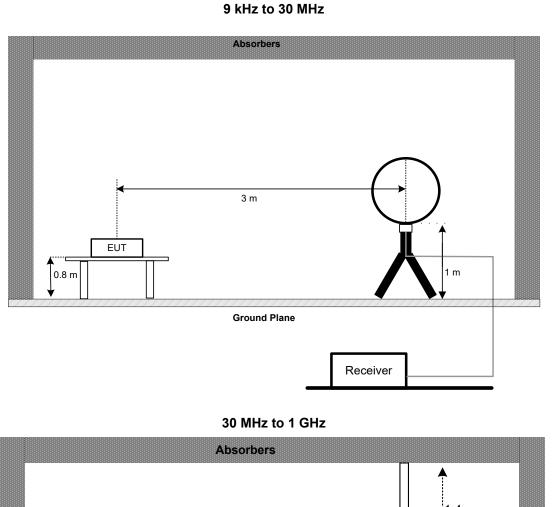
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

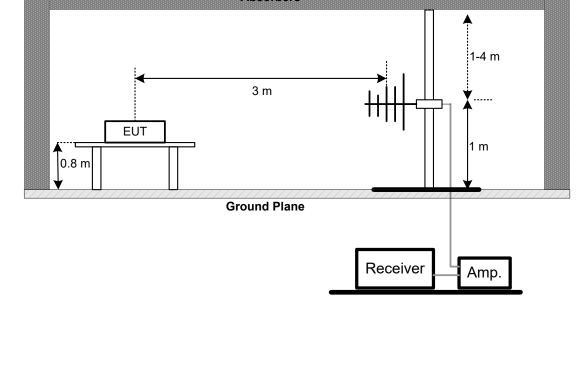


# 5.3 DEVIATION FROM TEST STANDARD

No deviation.

# 5.4 TEST SETUP

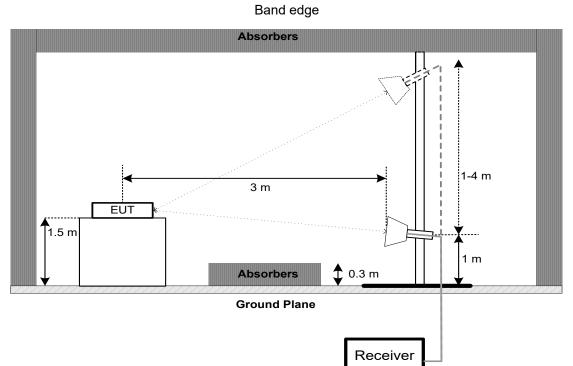




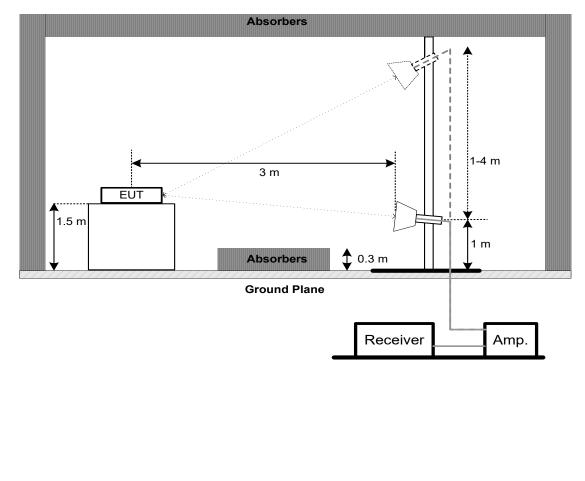




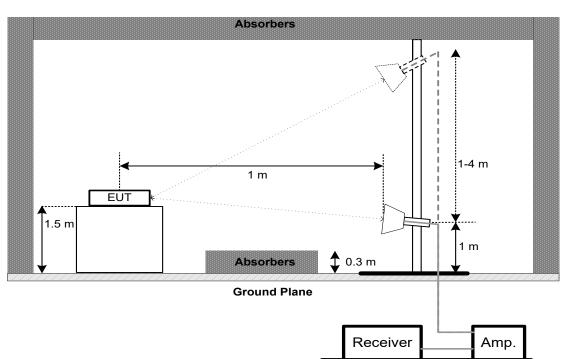








#### Harmonic(18 GHz to 26.5 GHz)



#### 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
FCC 15.247(a)(2)	6 dB Bandwidth	>= 500 kHz
	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	Test Item	Limit
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.

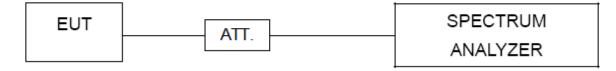
b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	2 MHz (1 Mbps)
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	
6	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025	

	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	LMR400-NMNM-8 M	N/A	Sep. 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	
7	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 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	
11	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025	

Mar. 20, 2025



Item

1 2

3

4

DC power supply

	Radiated Emissions - 1 GHz to 18GHz						
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-SMS M-12.5M	N/A	Jul. 03, 2025		
5	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Jul. 03, 2025		
6	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-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	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025		

	Radiated Emissions - Above 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330 -K	619413	Jul. 17, 2025	
2	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 25, 2025	
3	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025	
4	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 16, 2025	
5	Positioning Controller	MF	MF-7802	N/A	N/A	
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
7	966 Chamber room	CM	9*6*6	N/A	May 19, 2025	
8	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Nov. 17, 2024	
9	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025	

Bandwidth & Maximum Output Power & Power Spectral Density & Conducted Spurious Emission						
Kind of Equipment Manufacturer Type No. Serial No. Calibrated until						
Spectrum Analyzer	R&S	FSP40	100185	May 31, 2025		
Measurement Software	BTL	BTL Conducted Test	N/A	N/A		
Attenuator	STI	STI01-0201-01	N/A	Dec. 22, 2024		

UDP6721

AWP7224050031

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

UNI-T



# **11. EUT TEST PHOTO**



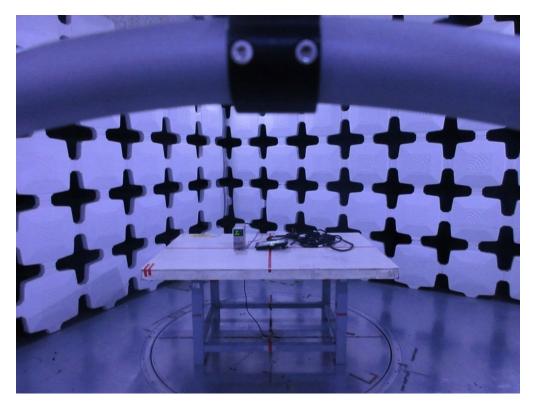


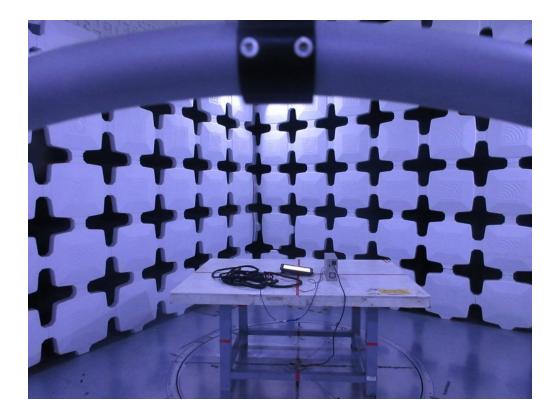
#### AC Power Line Conducted Emissions Test Photos



#### **Radiated Emissions Test Photos**

9 kHz to 30 MHz

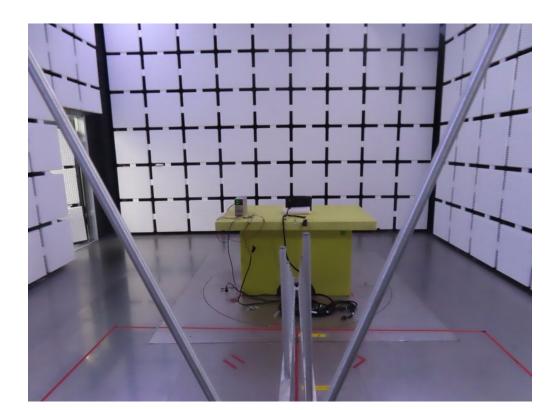




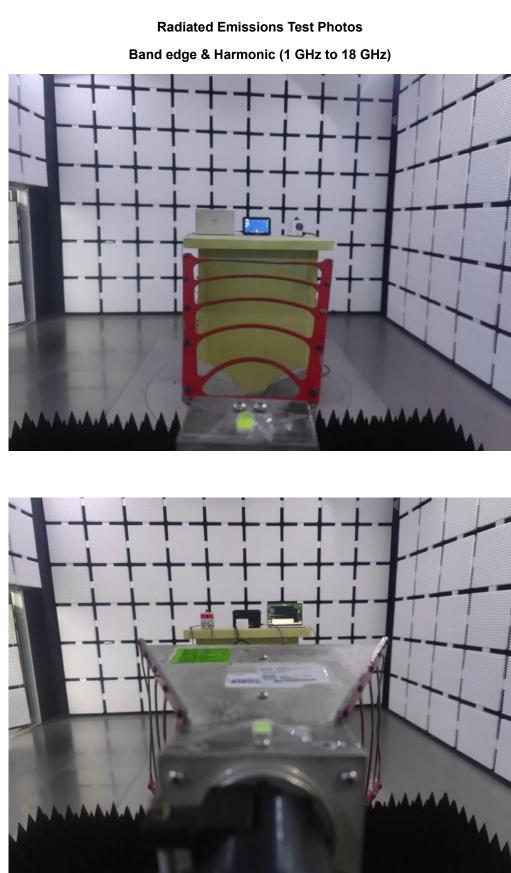




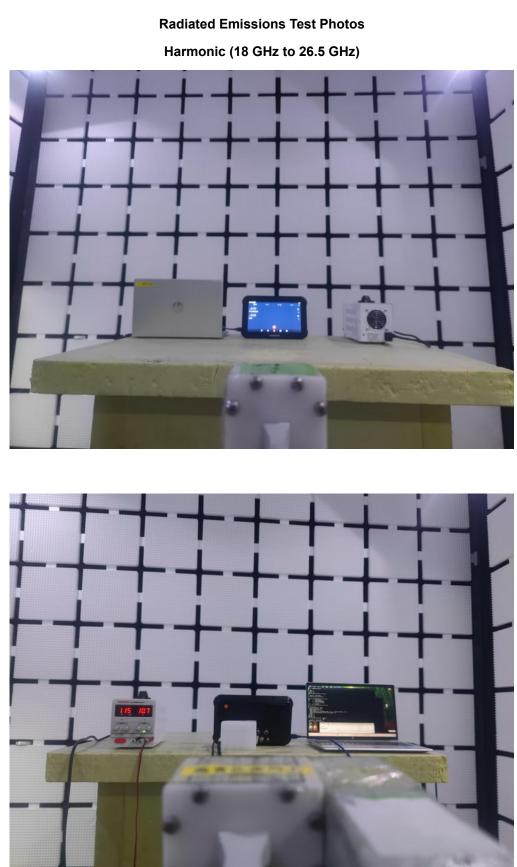








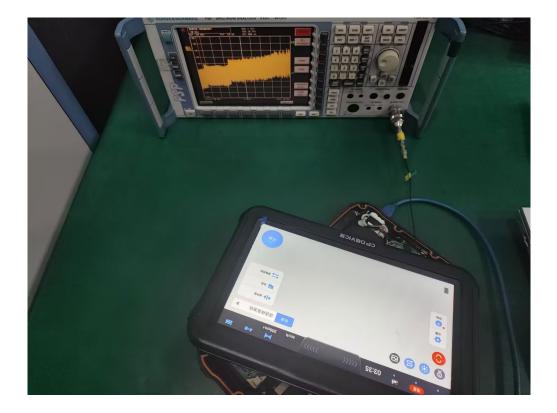






#### **Conducted Test Photos**

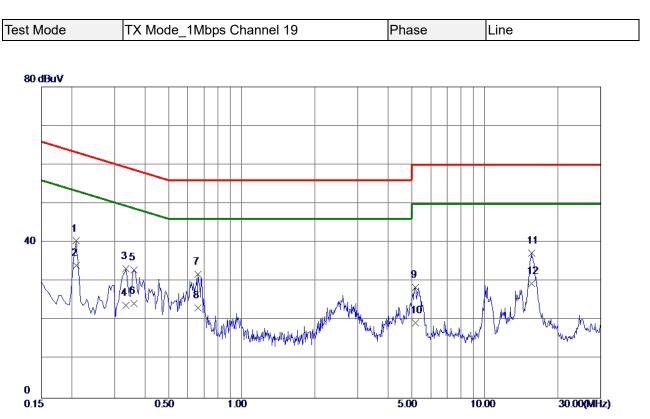






# **APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS**



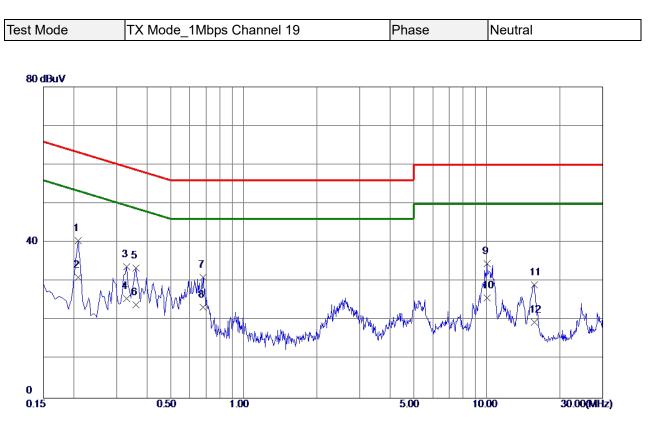


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2085	30.84	9.56	40. 40	63.26	-22.86	QP	
2 *	0.2085	24. 50	9.56	34.06	53.26	-19. 20	AVG	
3	0. 3345	23.67	9.60	33.27	<b>59.34</b>	-26.07	QP	
4	0.3345	14. 30	9.60	23. 90	49.34	-25.44	AVG	
5	0.3615	23. 40	9.60	33. <b>00</b>	58. 69	-25.69	QP	
6	0.3615	14.70	9.60	24.30	48.69	-24. 39	AVG	
7	0.6630	22.18	9.63	31.81	56.00	-24. 19	QP	
8	0.6630	13.61	9.63	23.24	46.00	-22.76	AVG	
9	5. 1810	18.68	9.81	28. <b>49</b>	60.00	-31.51	QP	
10	5. 1810	9.60	9.81	19.41	50.00	-30. 59	AVG	
11	15. 5895	27.16	10.08	37.24	60.00	-22.76	QP	
12	15. 5895	19.30	10.08	29.38	50.00	-20.62	AVG	

**REMARKS**:

- Measurement Value = Reading Level + Correct Factor.
   Margin Level = Measurement Value Limit Value.





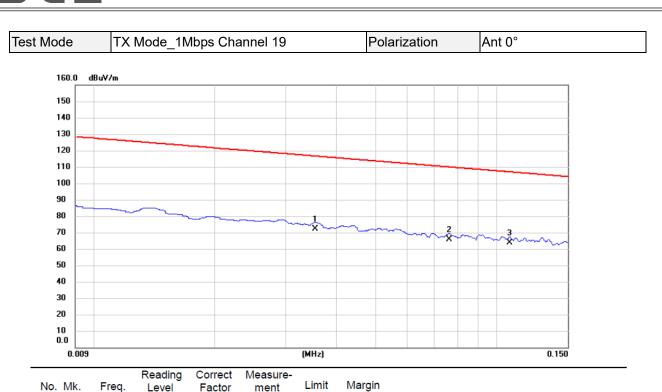
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2085	30.95	9.60	40.55	63.26	-22.71	QP	
2 *	0.2085	21.40	9.60	31.00	53.26	-22. 26	AVG	
3	0.3300	24.16	9.63	33. 79	<b>59.4</b> 5	-25.66	QP	
4	0.3300	15.90	9.63	25.53	49.45	-23. 92	AVG	
5	0.3615	23.88	9.63	33. 51	58. 69	-25. 18	QP	
6	0.3615	14.30	9.63	23.93	48.69	-24.76	AVG	
7	0.6809	21.39	9.68	31.07	56.00	-24. 93	QP	
8	0.6809	13.70	9.68	23. 38	46.00	-22.62	AVG	
9	10.0635	24.39	10.13	34. 52	60.00	-25.48	QP	
10	10.0635	15.60	10.13	25.73	50.00	-24. 27	AVG	
11	15.7110	18.93	10.13	29.06	60.00	-30. 94	QP	
12	15.7110	9.41	10.13	19. 54	50.00	-30.46	AVG	

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



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



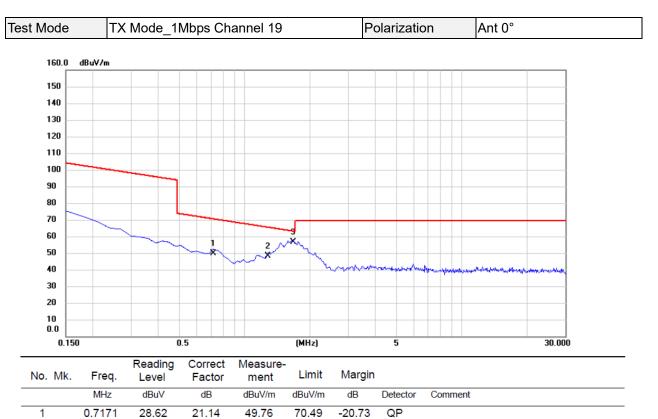


No. Mk.	Freq.	Level	Factor	ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0355	51.09	21.16	72.25	116.60	-44.35	AVG	
2	0.0761	44.39	21.32	65.71	109.98	-44.27	AVG	
3 *	0.1077	42.55	21.32	63.87	106.96	-43.09	QP	

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







2

3

\*

1.2843

1.6722

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

21.16

21.13

48.07

56.47

65.43

63.14

-17.36

-6.67

QP

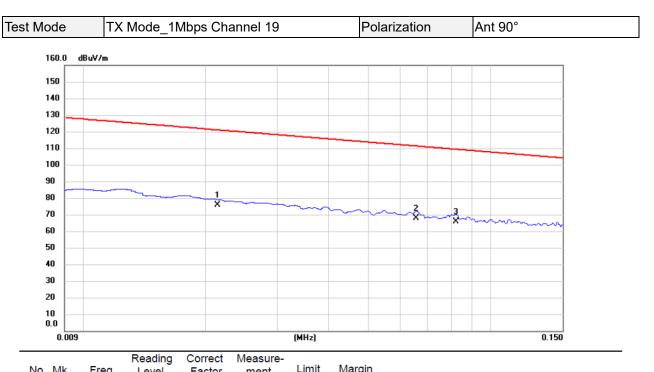
QP

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

26.91

35.34

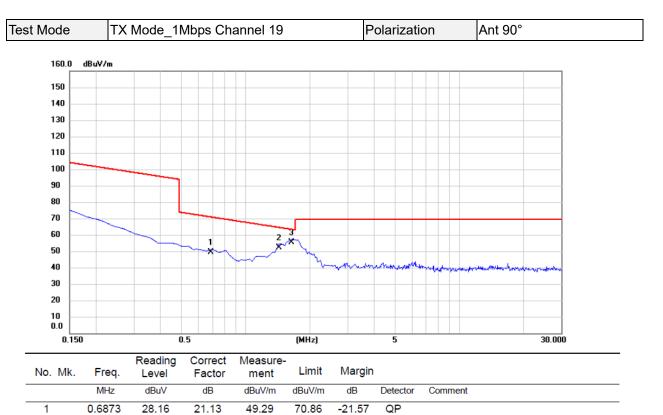




No. Mk.	Freq.	Level	Factor	ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0214	55.03	20.87	75.90	121.00	-45.10	AVG	
2 *	0.0657	46.58	21.28	67.86	111.25	-43.39	AVG	
3	0.0820	44.39	21.33	65.72	109.33	-43.61	AVG	

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





2

3 \*

1.4336

1.6425

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

31.09

34.27

21.15

21.14

52.24

55.41

64.48

63.29

-12.24

-7.88

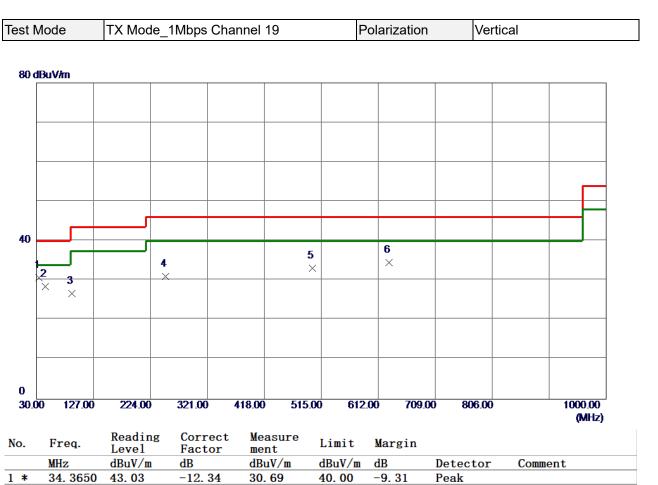
QP

QP



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

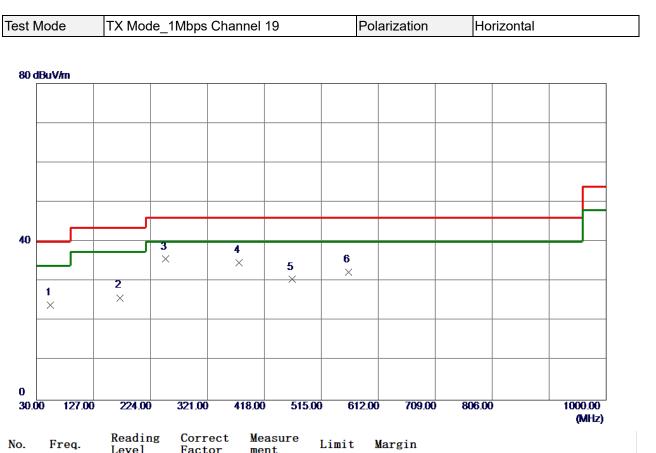




1 *	34.3650 43.03	-12.34	30.69	40.00	-9.31	Peak	
2	45.0350 39.89	-11.36	28.53	40.00	-11.47	Peak	
3	90. 6250 43. 75	-17.00	26.75	43. 52	-16.77	Peak	
4	250. 1900 43. 42	-12.35	31.07	46.02	-14.95	Peak	
5	499.9650 39.12	-6.02	33.10	46.02	-12.92	Peak	
6	629.9450 37.74	-3.14	34.60	46.02	-11.42	Peak	

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





NO.	rieq.	Level	Factor	ment	LIMIU	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	53. 2800	35.31	-11.37	23.94	40.00	-16.06	Peak	
2	172. 5900	37.35	-11.51	25.84	43. 52	-17.68	Peak	
3 *	250. 1900	47.95	-12.35	35.60	<b>46.0</b> 2	-10.42	Peak	
4	374. 8350	43. 48	-8.82	34.66	<b>46.0</b> 2	-11.36	Peak	
5	465. 5300	37.02	-6. 54	30.48	<b>46.0</b> 2	-15. 54	Peak	
6	561.5600	36.92	-4.67	32.25	<b>46.0</b> 2	-13.77	Peak	

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

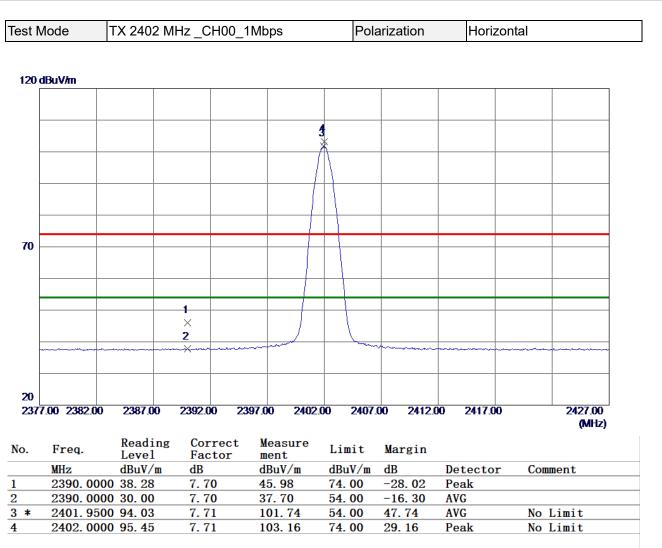


### **APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ**



Image: Second state of the second s	st Mode	;	TX 2402	MHz_C	CH00_	1Mbps		Pola	arization		Vertic	al	
1         1           1         1													
0       ×	00 dBuV/	łm											
50       ×													
50       X													
50       X													 
50       X													
50       X													
50       X				1									 
0         1													
Non-operation         Reading         Correct         Measure         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4803.4550         52.91         2.79         55.70         74.00         -18.30         Peak	50			A									
Non-operation         Reading         Correct         Measure         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4803.4550         52.91         2.79         55.70         74.00         -18.30         Peak													
Non-operation         Reading         Correct         Measure         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4803.4550         52.91         2.79         55.70         74.00         -18.30         Peak													
1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000 (M           o.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4803.4550         52.91         2.79         55.70         74.00         -18.30         Peak													
1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000 (M           o.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4803.4550         52.91         2.79         55.70         74.00         -18.30         Peak													
Non-operation         Reading         Correct         Measure         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4803.4550         52.91         2.79         55.70         74.00         -18.30         Peak													
1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000 (M           o.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4803.4550         52.91         2.79         55.70         74.00         -18.30         Peak	0												
p.Freq.Reading LevelCorrect FactorMeasure mentLimitMarginMHzdBuV/mdBdBuV/mdBuV/mdBDetectorComment4803.455052.912.7955.7074.00-18.30Peak		2700.00	4400.00	6100.0	0 7	800.00	9500.00	1120	0.00 1290	0.00	14600.0	00	00.00
MHz         Level         Factor         ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4803.4550         52.91         2.79         55.70         74.00         -18.30         Peak													ALC: N. 1. 1. 1.
4803. 4550 52. 91 2. 79 55. 70 74. 00 -18. 30 Peak			Readin	g Cor	rect	Measu	ire						 MHz)
			Level	Fac	rect tor	ment							MHz)
	MHz	Z	Level dBuV/m	Fac dB	tor	ment dBuV/	m	dBuV/m	dB			. (	MHz)
	MH2 480	z 03. 455	Level dBuV/m 50 52.91	Fac dB 2. 7	tor 9	ment dBuV/ 55.70	m (	dBuV/m 74. 00	dB -18. 30	Pe	ak	- (	MHz)



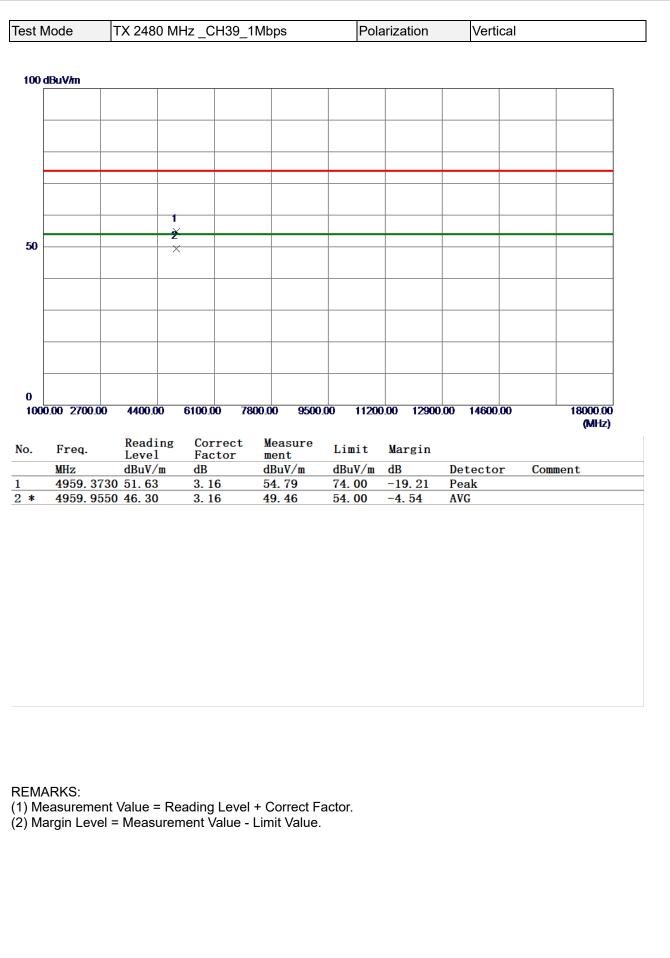


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

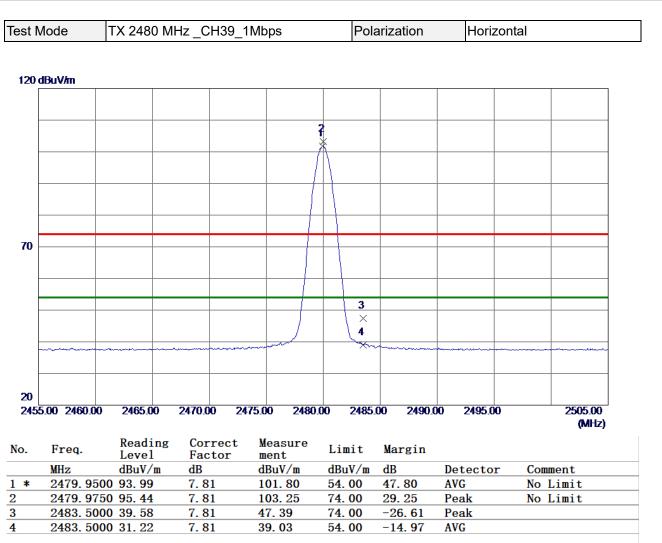


MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak	50         1	Node	TX 2440	) MHz _C	CH19_1	Vbps	Pola	arization	Ve	rtical	
50         1	50         1										
50       ×	50       X       Image: Constraint of the state	dBuV/m							1		
50       ×	50       ×										
50       ×	50       ×       Image: Constraint of the state										
50       ×	50       X       Image: Constraint of the state									_	
50       ×	50       X       Image: Constraint of the state									_	
50       ×	50       X       Image: Constraint of the state										
0	0										
1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000.00         (MHz)           No.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak	1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000.00         (MHz)           No.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           1         4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak			-×							
1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000.00         (MHz)           No.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak	1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000.00         (MHz)           No.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           1         4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak										
1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000.00         (MHz)           No.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak	1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000.00         (MHz)           No.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           1         4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak										
1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000.00         (MHz)           No.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak	1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000.00         (MHz)           No.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           1         4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak										
1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000.00         (MHz)           No.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak	1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000.00         (MHz)           No.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           1         4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak										
1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000.00         (MHz)           No.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak	1000.00         2700.00         4400.00         6100.00         7800.00         9500.00         11200.00         12900.00         14600.00         18000.00         (MHz)           No.         Freq.         Reading Level         Correct Factor         Measure ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           1         4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak										
MHz       Reading Level       Correct Factor       Measure ment       Limit       Margin         MHz       dBuV/m       dB       dBuV/m       dBuV/m       dB       Detector       Comment         4879.4450       52.16       2.97       55.13       74.00       -18.87       Peak	(MHz)No.Freq.Reading LevelCorrect FactorMeasure mentLimit MarginMarginMHzdBuV/mdBdBuV/mdBDetectorComment14879.445052.162.9755.1374.00-18.87Peak										
MHz         Level         Factor         ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak	Mile         Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           1         4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak	0.00 2700.0	0 4400.00	) 6100.	00 780	0.00 9500.	00 11200	).00 12900	0.00 146	00.00	
MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak	MHz         dBuV/m         dB         dBuV/m         dBuV/m         dB         Detector         Comment           1         4879.4450         52.16         2.97         55.13         74.00         -18.87         Peak	Freq.	Readi	ng Con Fac	rrect		Limit	Margin			
			dBuV/n	n dB		dBuV/m				tor	Comment
		4879.44	450 52.16	2.9	97	55.13	74.00	-18 87	Peak		
		4879.80									
		4879.80									
		4879.80									
		4879.80									
	REMARKS: 1) Measurement Value = Reading Level + Correct Factor.	ARKS:	050 47. 17	2.9	97	50. 14	54.00				
1) Measurement Value = Reading Level + Correct Factor.	REMARKS: 1) Measurement Value = Reading Level + Correct Factor. 2) Margin Level = Measurement Value - Limit Value.	ARKS: easureme	050 47. 17	2. s	97 9 Level +	50. 14	54.00				
1) Measurement Value = Reading Level + Correct Factor.	1) Measurement Value = Reading Level + Correct Factor.	ARKS: easureme	050 47. 17	2. s	97 9 Level +	50. 14	54.00				
1) Measurement Value = Reading Level + Correct Factor.	1) Measurement Value = Reading Level + Correct Factor.	ARKS: easureme	050 47. 17	2. s	97 9 Level +	50. 14	54.00				
1) Measurement Value = Reading Level + Correct Factor.	1) Measurement Value = Reading Level + Correct Factor.	ARKS: easureme	050 47. 17	2. s	97 9 Level +	50. 14	54.00				
1) Measurement Value = Reading Level + Correct Factor.	1) Measurement Value = Reading Level + Correct Factor.	ARKS: easureme	050 47. 17	2. s	97 9 Level +	50. 14	54.00				
			dBuV/m	dBuV/m dBuV/m 0.00 2700.00 4400.00 Freq. Readin Level MHz dBuV/n	dBuV/m dBuV/m 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4	dBuV/m dBuV/m	dBuV/m         Image: Second	dBuV/m         Image: Image of the second s	dBuV/m         dBuV/m         i       i	dBuV/m         dBuV/m         i       i	dBuV/m         dBuV/m         i



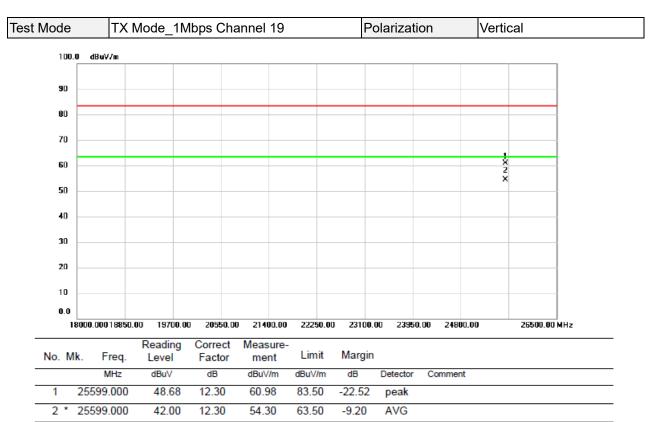






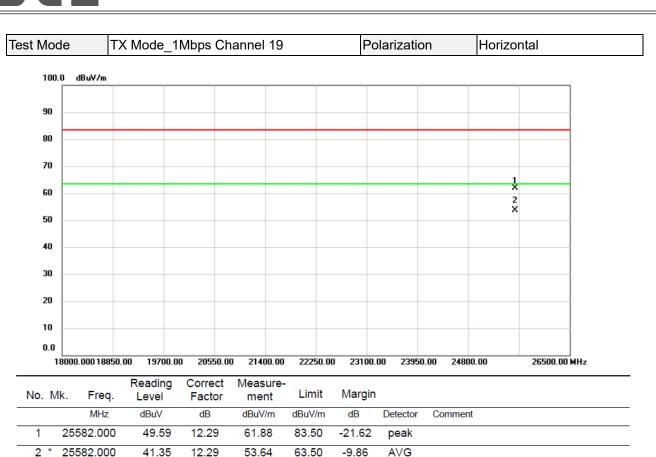
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





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

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

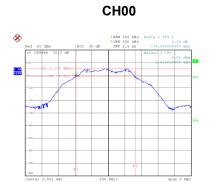


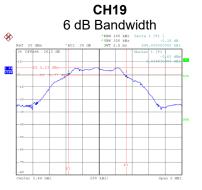
### **APPENDIX E - BANDWIDTH**



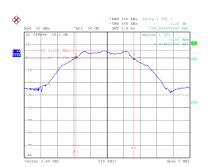


Т	est Mode	TX Mode _1	Mbps			
	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
	00	2402	0.714	1.060	0.5	Pass
	19	2440	0.696	1.060	0.5	Pass
	39	2480	0.700	1.064	0.5	Pass

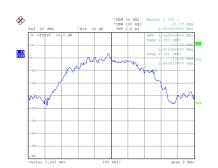




CH39



Date: 18.0CT.2024 19:32:40

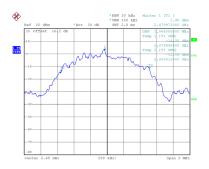


Date: 18.0CT.2024 19:36:17



Date: 18.0CT.2024 19:39:19

Date: 18.0CT.2024 19:39:26



Date: 18.0CT.2024 19:31:59

#### Date: 18.0CT.2024 19:36:24

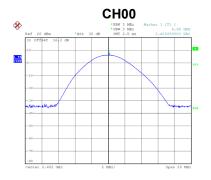


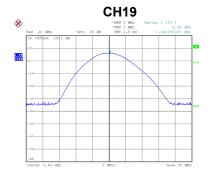
### **APPENDIX F - MAXIMUM OUTPUT POWER**

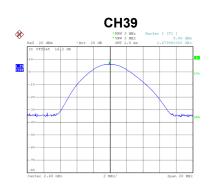


Te	est Mode	TX Mode _1Mbps	5			
	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
	2402	5.95	0.0039	30.00	1.0000	Pass
	2440	5.98	0.0040	30.00	1.0000	Pass
	2480	5.86	0.0039	30.00	1.0000	Pass

Note: Output power = Measure result + Cable loss







Date: 18.0CT.2024 19:33:31

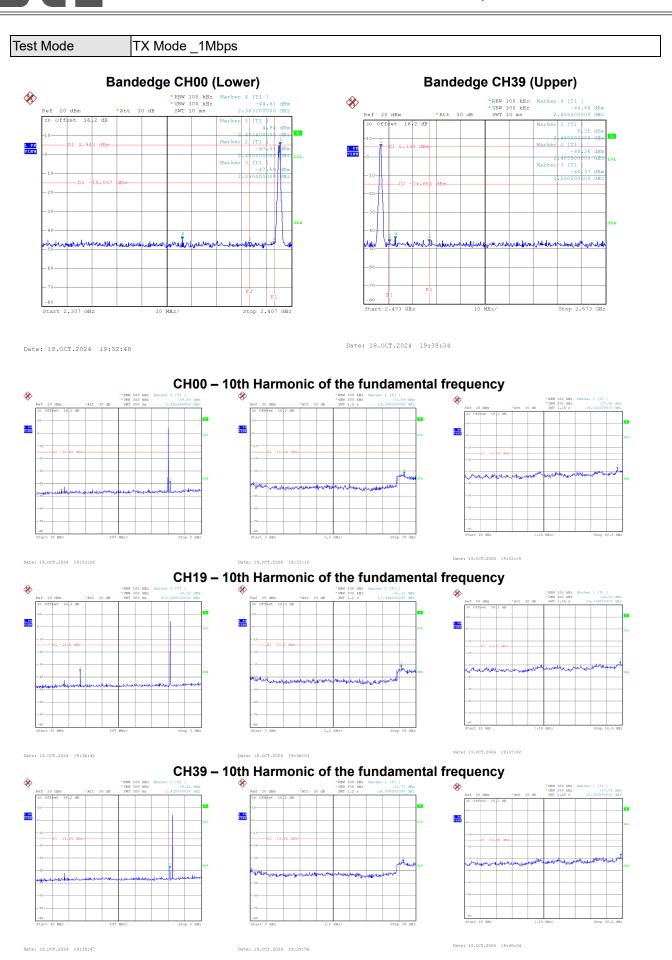
Date: 18.0CT.2024 19:37:14

Date: 18.0CT.2024 19:40:16





# **APPENDIX G - CONDUCTED SPURIOUS EMISSION**



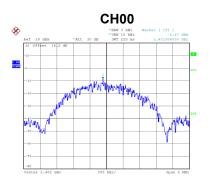


## **APPENDIX H - POWER SPECTRAL DENSITY**

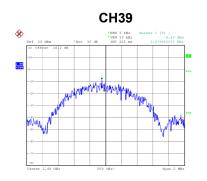


#### Test Mode TX Mode \_1Mbps

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
00	2402	-8.47	8.00	Pass
19	2440	-8.55	8.00	Pass
39	2480	-8.49	8.00	Pass







Date: 18.0CT.2024 19:33:25

Date: 18.0CT.2024 19:37:08

Date: 18.0CT.2024 19:40:10

### End of Test Report