





FCC Radio Test Report

FCC ID: 2A33X-QYXPRO

This report concerns: Original Grant

Project No. : 2409C081

System Name : QYX Pro

Brand Name : Qianxun SI

System Model : QYX Pro

Name

Equipment: Automated Steering System

Test Model : QYX Pro receiver

Series Model : N/A

Applicant : Qianxun Spatial Intelligence(Zhejiang) Inc.

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Manufacturer : Qianxun Spatial Intelligence(Zhejiang) Inc.

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Street, Deqing County, Huzhou City, Zhejiang Province, China

Date of Receipt : Sep. 24, 2024

Date of Test : Sep. 25, 2024 ~ Nov. 09, 2024

Issued Date : Dec. 02, 2024

Report Version : R00

Test Sample : Engineering Sample No.: DG2024092420 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

BTL 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 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-1-2409C081	R00	Original Report.	Dec. 02, 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 Emissions	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 in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.



2.1 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 test:

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

B. Radiated emissions test:

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

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m) CISP		30MHz ~ 200MHz	٧	4.40
	CISPR	30MHz ~ 200MHz	Н	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	Н	3.98

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

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



C. Other Measurement:

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	24°C	52%	AC120V/60Hz	Hayden Chen	Oct. 22, 2024
Radiated Emissions-9kHz to 30 MHz	25°C	50%	DC 10V	Hayden Chen	Nov. 06, 2024
Radiated Emissions-30MHz to 1000MHz	23°C	53%	DC 10V	Calvin Wen	Oct. 21, 2024
Radiated Emissions-Above 1000MHz	24°C	51%	DC 10V	Jensen Zhou	Oct. 27, 2024
Bandwidth	25°C	45%	DC 10V	Arvin Tong	Oct. 22, 2024
Maximum Output Power	24-25°C	53-60%	DC 10V	Alex Yin	Oct. 22, 2024~ Nov. 04, 2024
Conducted Spurious Emissions	25°C	45%	DC 10V	Arvin Tong	Oct. 22, 2024
Power Spectral Density	25°C	45%	DC 10V	Arvin Tong	Oct. 22, 2024



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

System Name	QYX Pro
Brand Name	Qianxun SI
System Model Name	QYX Pro
Equipment	Automated Steering System
Test Model	QYX Pro receiver
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC Power Supply.
Power Rating	DC 9V-36V
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 72.2 Mbps
Maximum Output Power	IEEE 802.11n(HT20): 25.45 dBm (0.3508 W)

Note:

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

2. Channel List:

	CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20)						
Channel Frequency (MHz) Channel Frequency (MHz) Channel Frequency						Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Antenna Specification:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Shanghai Saintenna Wireless Technology Co., Ltd.	QX-A960	PIFA	N/A	2



4.	Equipment	Automated Steering System	Tablet (Model: S11)	Electric steering wheel (Model: ESW1)
	RF specification	(Model: QYX Pro receiver)	((
	GPS	support	1	1
	Bluetooth(BT+BLE)	1	BT+BLE	BLE
	WIFI	2.4G	2.4G	1
	GSM	1	1	1
	WCDMA	1	Band 2, 4, 5	1
	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 B Mode Channel 01/06/11	
Mode 2	TX G Mode Channel 01/06/11	
Mode 3	TX N(HT20) Mode Channel 01/06/11	
Mode 4 TX N(HT20) Mode Channel 06		

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 4 TX N(HT20) Mode Channel 06			

Radiated emissions test - Below 1GHz			
Final Test Mode Description			
Mode 4	Mode 4 TX N(HT20) Mode Channel 06		

Radiated emissions test- Above 1GHz			
Final Test Mode Description			
Mode 1 TX B Mode Channel 01/06/11			
Mode 2	TX G Mode Channel 01/06/11		
Mode 3	TX N(HT20) Mode Channel 01/06/11		

Conducted test			
Final Test Mode Description			
Mode 1 TX B Mode Channel 01/06/11			
Mode 2	TX G Mode Channel 01/06/11		
Mode 3	TX N(HT20) Mode Channel 01/06/11		



NOTE:

- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX N(HT20) Mode Channel 06 is found to be the worst case and recorded.
- (3) 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.
- (4) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (5) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.

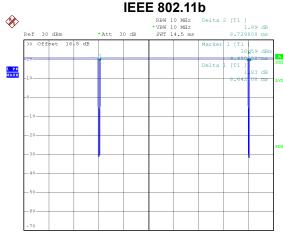
3.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	IPOP_V4.0		
Frequency (MHz)	2412 2437 2462		
IEEE 802.11b	19	19	19
IEEE 802.11g	16.5	18	17
IEEE 802.11n(HT20)	17.5	19	19

IEEE 802.11g



3.4 DUTY CYCLE



Date: 22.0CT.2024 10:35:58

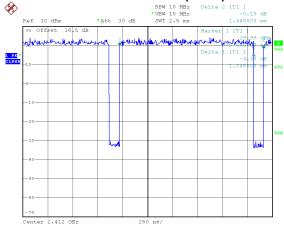
Duty cycle = 8.642 ms / 8.729 ms = 99.00% Duty Factor = 10 log(1/Duty cycle) = 0.00

30 Offset 16.5 dB 1 1 1 1 1 1 1 2.32 dB LVL Delta 1 171 1 2.32 dB 1.432 00 ms LVL 308 308 Center 2.412 GHz 400 µs/

Date: 22.0CT.2024 10:44:38

Duty cycle = 1.432 ms / 1.536 ms = 93.23% Duty Factor = 10 log(1/Duty cycle) = 0.30





Date: 22.0CT.2024 10:46:00

Duty cycle = 1.345 ms / 1.445 ms = 93.08% Duty Factor = 10 log(1/Duty cycle) = 0.31

NOTE:

For IEEE 802.11b:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz.

For IEEE 802.11g:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 698 Hz.

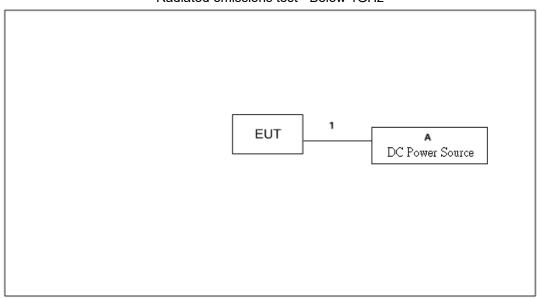
For IEEE 802.11n(HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 743 Hz.

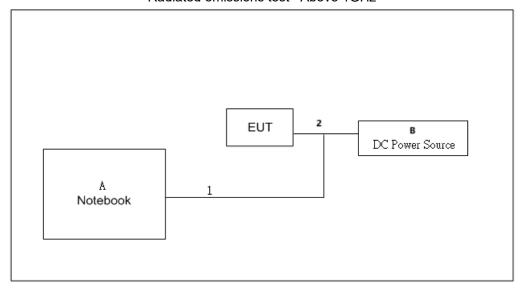


3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated emissions test - Below 1GHz



Radiated emissions test - Above 1GHz





3.6 SUPPORT UNITS

Radiated emissions test - Below 1GHz

Item	Equipment	Brand	Model No.	Series No.
Α	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

Item	Equipment	Brand	Model No.	Series No.
Α	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

3.7 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain is provided by the manufacturer.
- 2) 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

Frequency of Emission (MHz)	Limit (d	ΒμV)
	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:

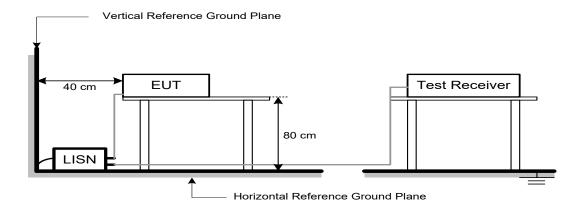
Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.3 DEVIATION FROM TEST STANDARD

No deviation.



4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS

Please refer to the APPENDIX A.





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)

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

 $20\log (d_{limit}/d_{measure})=20\log (3/1)=9.5 dB.$

FS_{limit}: Harmonic at 3m Peak and Average limit.

FS_{max}: Harmonic at 1m Peak and Average Maximum value.

d_{limit}: Harmonic at 3m test distance. d_{measure}: 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

Receiver 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

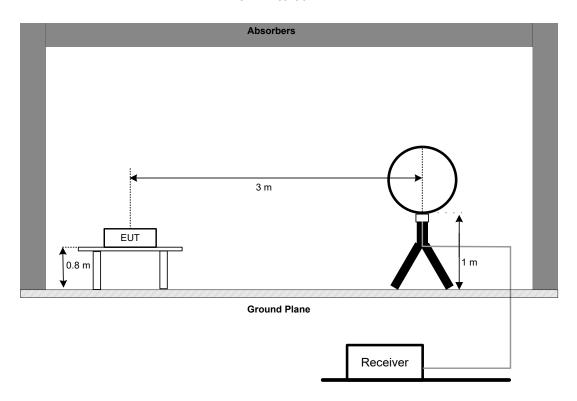


5.3 DEVIATION FROM TEST STANDARD

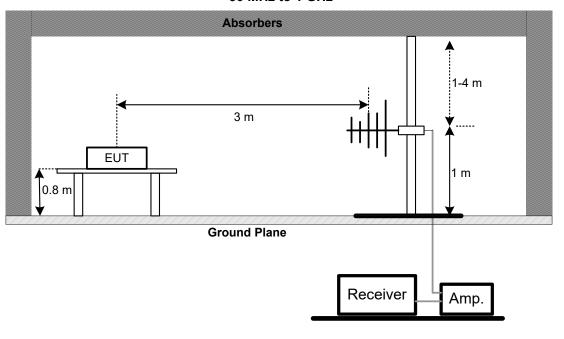
No deviation.

5.4 TEST SETUP

9 kHz to 30 MHz

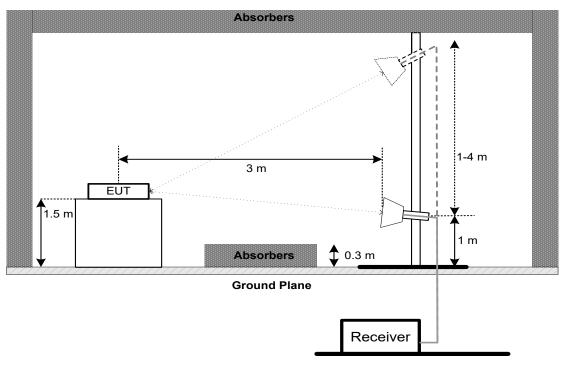


30 MHz to 1 GHz

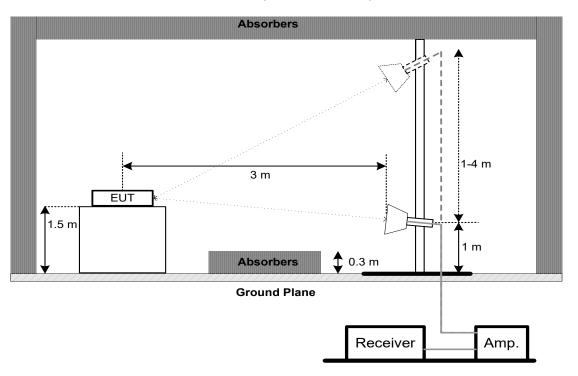




Above 1 GHz Band edge

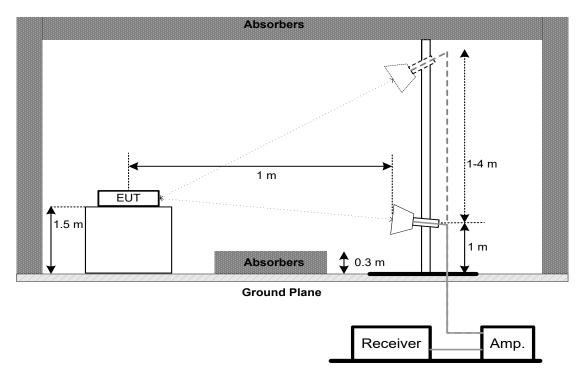


Harmonic(1 GHz to 18 GHz)





Harmonic(18 GHz to 26.5 GHz)



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS - 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 RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

5.8 TEST RESULTS - 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	Minimum 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:

Of Cab Ballawiden.	
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	300 kHz For 20MHz 1 MHz For 40MHz		
VBW	1 MHz For 20MHz 3 MHz For 40MHz		
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	

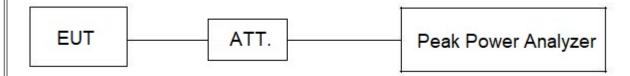
7.2 TEST PROCEDURE

- a. The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.1.3 (for peak power) of ANSI C63.10-2013.

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 EMISSIONS

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	25 MHz (20 MHz) / 60 MHz (40 MHz)	
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-9 M-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	



	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	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A		
8	Filter	STI	STI15-9912	N/A	May 31, 2025		
9	966 Chamber room	CM	9*6*6	N/A	May 19, 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	966 Chamber room	CM	9*6*6	N/A	May 19, 2025		
6	Positioning Controller	MF	MF-7802	N/A	N/A		
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
8	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Nov. 17, 2024		
9	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025		

Bandwidth & Conducted Spurious Emissions & Power Spectral Density							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP40	100185	May 31, 2025		
2	2 Measurement BTL BTL Conducted N/A N/A N/A						
3	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025		
4	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A		

	Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Peak Power Analyzer	Keysight	8990B	MY51000506	May 31, 2025	
2	Wideband power sensor	Keysight	N1923A	MY58310004	May 31, 2025	
3	Isolation attenuator	Z-Link	ASMA-10-18-2W	N/A	N/A	
4	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025	

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.



11. EUT TEST PHOTO

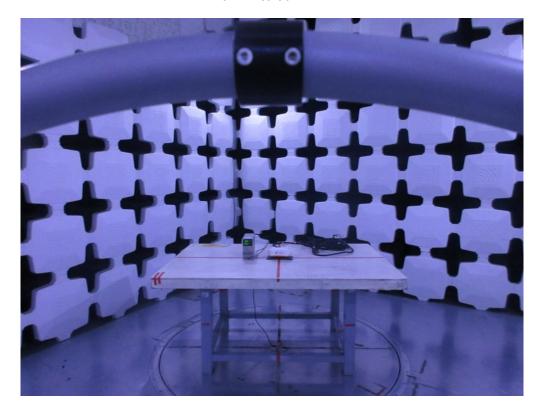


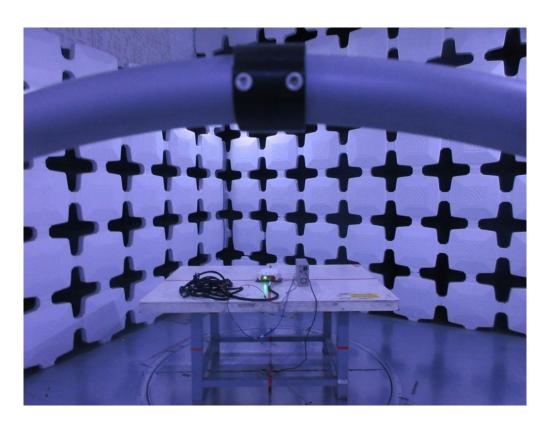






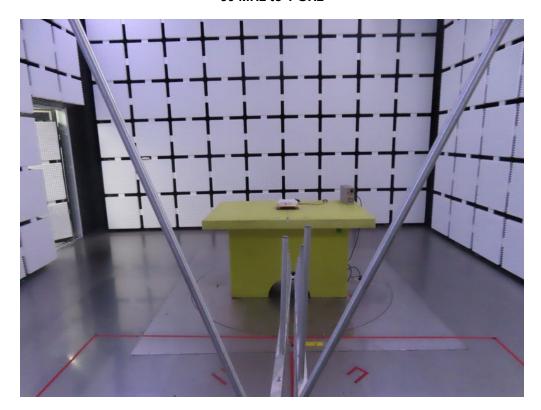
9 kHz to 30 MHz

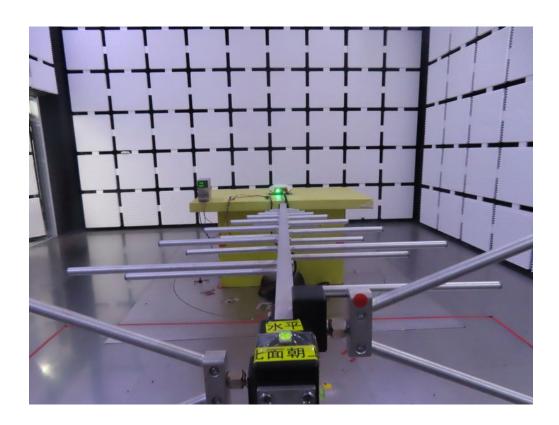






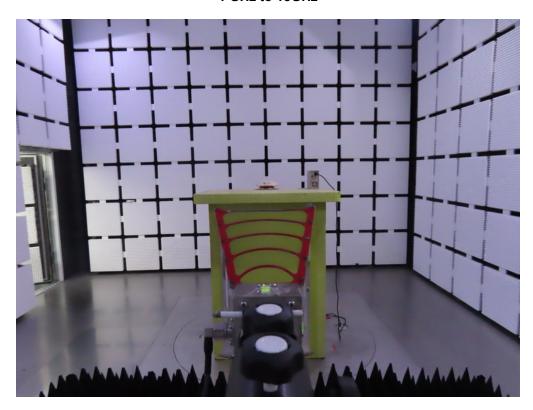
30 MHz to 1 GHz

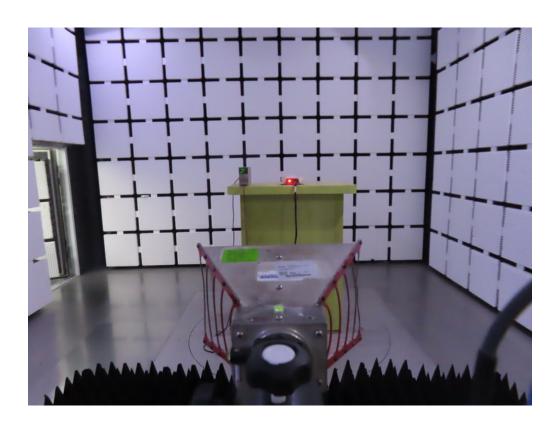






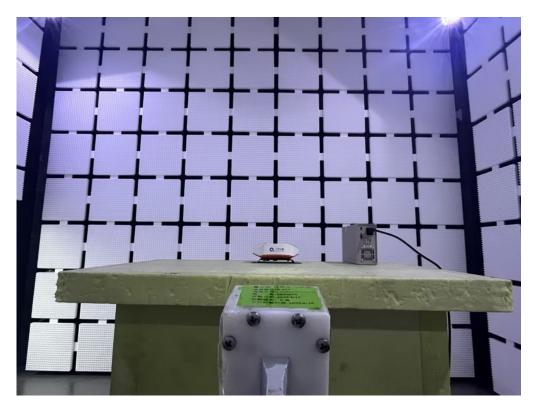
1 GHz to 18GHz

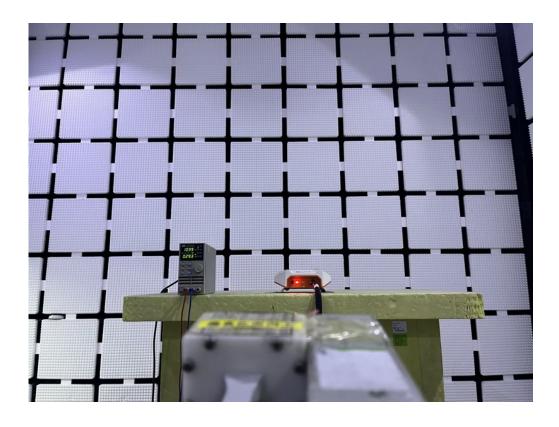






Above 18 GHz







Conducted Test Photos



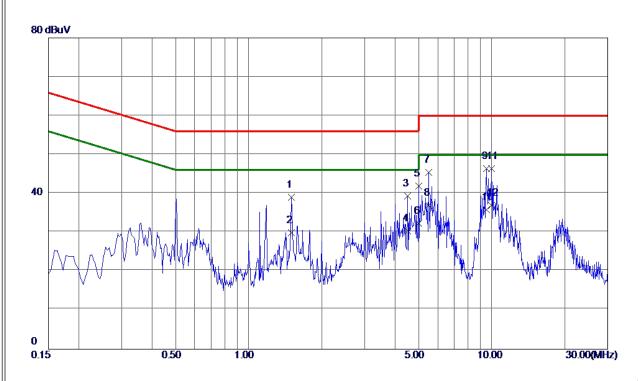




APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS





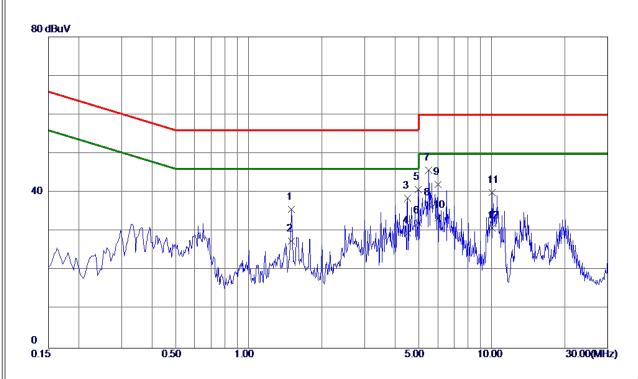


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	1. 5000	29. 23	9. 84	39. 07	56.00	-16. 93	QP	
2	1. 5000	20. 10	9. 84	29. 94	46.00	-16. 06	AVG	
3	4. 5015	29. 33	9. 97	39. 30	56.00	-16. 70	QP	
4	4. 5015	20. 41	9. 97	30. 38	46.00	-15. 62	AVG	
5	5. 0010	31. 97	9. 99	41. 96	60.00	-18. 04	QP	
6	5.0010	22. 30	9. 99	32. 29	50.00	-17. 71	AVG	
7	5. 5005	35. 41	10.02	45. 43	60.00	-14. 57	QP	
8	5. 5005	26. 91	10.02	36. 93	50.00	-13. 07	AVG	
9	9. 5010	35. 82	10. 52	46. 34	60.00	-13. 66	QP	
10	9. 5010	25. 31	10. 52	35. 83	50.00	-14. 17	AVG	
11	10.0004	35. 79	10. 60	46. 39	60.00	-13. 61	QP	
12 *	10.0004	26. 40	10. 60	37. 00	50.00	-13.00	AVG	

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







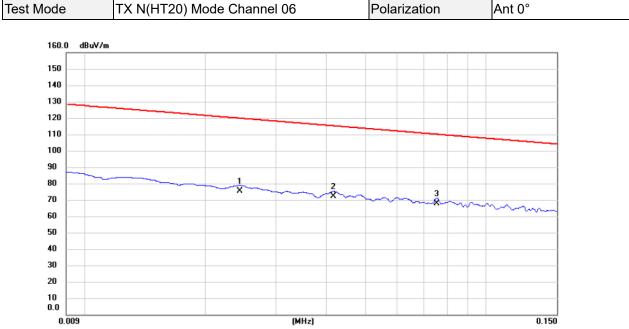
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	1. 4988	26. 05	9. 69	35. 74	56.00	-20. 26	QP	
2	1. 4988	17. 80	9. 69	27. 49	46.00	-18. 51	AVG	
3	4. 5168	28. 77	9.83	38. 60	56.00	−17. 40	QP	
4	4. 5168	19. 80	9. 83	29. 63	46.00	-16. 37	AVG	
5	4. 9957	31. 00	9.85	40.85	56.00	-15. 15	QP	
6	4. 9957	22. 30	9. 85	32. 15	46.00	-13. 85	AVG	
7	5. 4961	35. 84	9. 88	45 . 72	60.00	-14. 28	QP	
8 *	5. 4961	26. 90	9. 88	36. 78	50.00	-13. 22	AVG	
9	6.0147	32. 22	9. 92	42. 14	60.00	-17. 86	QP	
10	6. 0147	23. 60	9. 92	33. 52	50.00	-16. 48	AVG	
11	10. 0076	29. 49	10. 46	39. 95	60. 00	-20. 05	QP	
12	10. 0076	20. 40	10. 46	30. 86	50.00	-19. 14	AVG	

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



APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

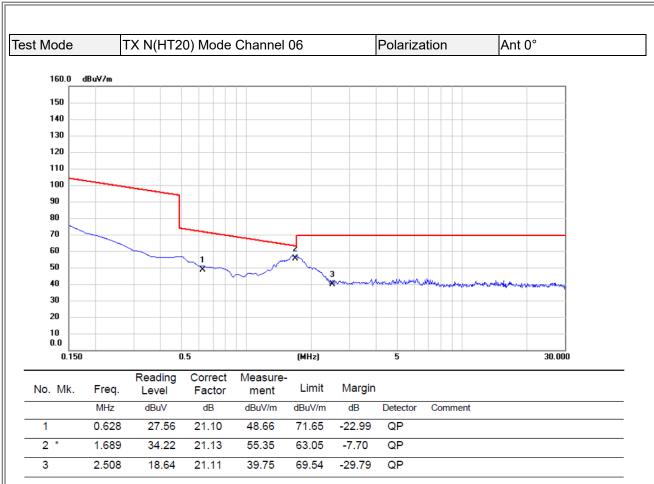




No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.024	54.60	20.96	75.56	119.86	-44.30	AVG	
2	0.042	51.03	21.19	72.22	115.20	-42.98	AVG	
3 *	0.075	46.35	21.31	67.66	110.06	-42.40	AVG	

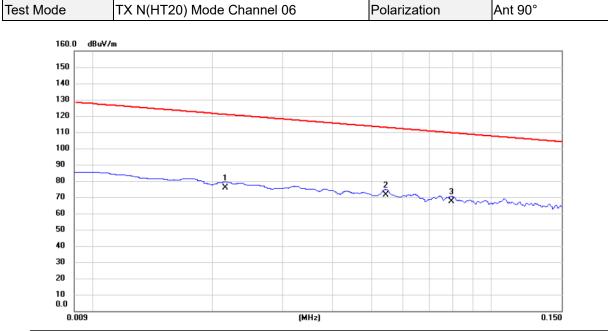
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





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

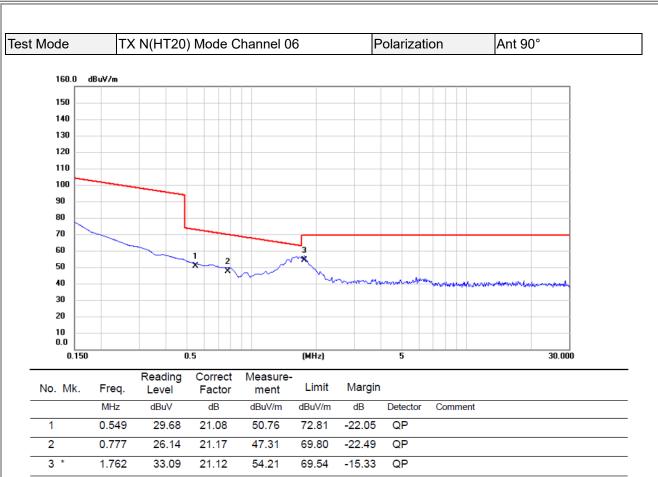




No. Mk.	Freq.			Measure- ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.021	55.03	20.88	75.91	120.96	-45.05	AVG	
2 *	0.054	49.98	21.24	71.22	112.91	-41.69	AVG	
3	0.080	46.11	21.33	67.44	109.60	-42.16	AVG	

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



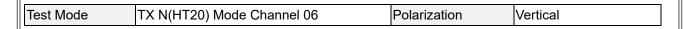


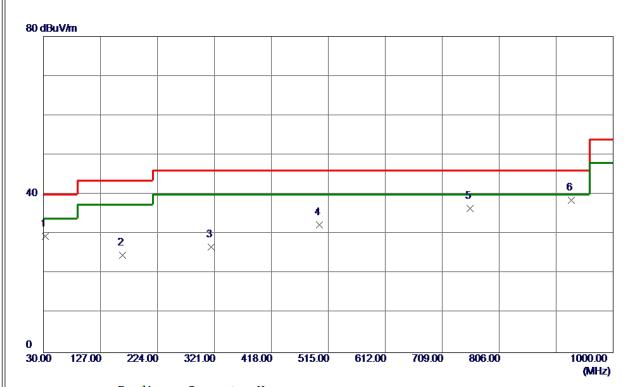
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ





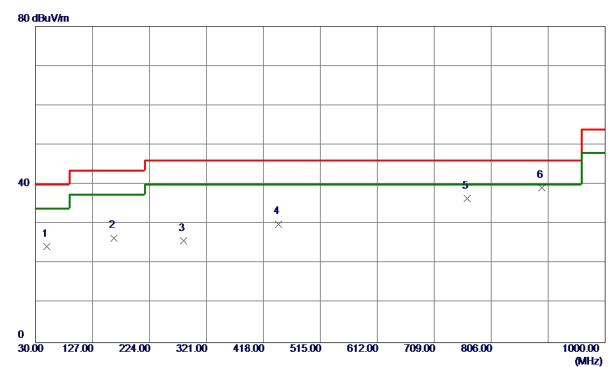


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	32.9100	42.03	-12. 57	29. 46	40.00	-10.54	Peak	
2	164. 3450	35. 59	-11. 02	24. 57	43. 52	-18. 95	Peak	
3	315. 6650	36. 78	-10. 13	26. 65	46 . 0 2	-19. 37	Peak	
4	499. 9650	38. 27	-6.02	32. 25	46.02	-13. 77	Peak	
5	756. 5300	37. 57	-1. 08	36. 49	46.02	-9. 53	Peak	
6 *	929. 1900	38. 15	0. 44	38. 59	46. 02	-7. 43	Peak	

- (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/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	48. 9150	35. 65	-11. 27	24. 38	40.00	-15. 62	Peak	
2	163. 8600	37. 48	-11. 00	26. 48	43. 52	-17. 04	Peak	
3	281. 7150	36. 73	-10. 99	25. 74	46.02	-20. 28	Peak	
4	443. 7050	36. 93	-6. 93	30. 00	46.02	-16. 02	Peak	
5	765. 2600	37. 59	-1. 12	36. 47	46.02	-9. 55	Peak	
6 *	891. 8450	39. 07	0. 19	39. 26	46. 02	-6. 76	Peak	

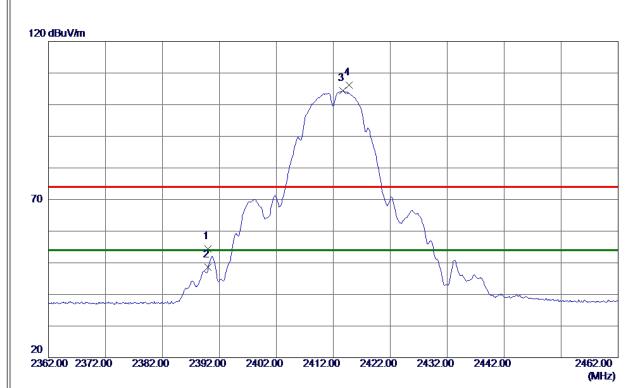
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ



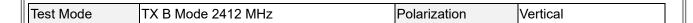


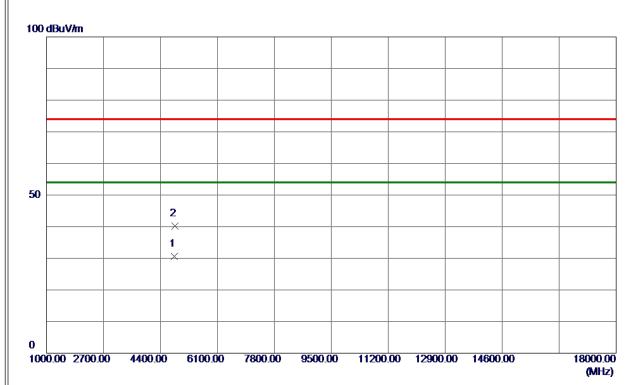


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	46. 63	7. 70	54. 33	74.00	-19. 67	Peak	
2	2390. 0000	40.85	7. 70	48. 55	54.00	−5. 45	AVG	
3 *	2413. 7000	96. 62	7. 73	104. 35	54.00	50. 35	AVG	No Limit
4	2414. 7500	98. 42	7. 73	106. 15	74.00	32. 15	Peak	No Limit

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





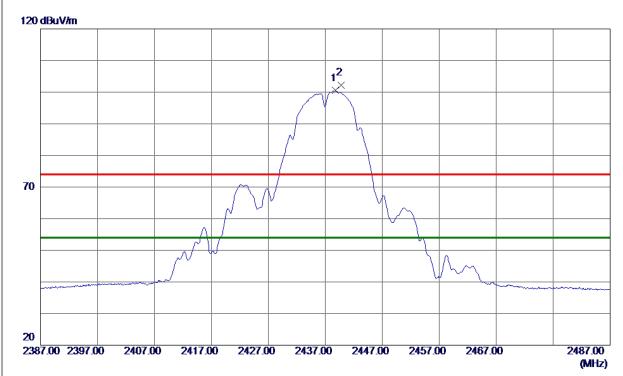


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823. 9400	27. 79	2. 84	30. 63	54.00	-23. 37	AVG	
2	4827. 3400	37. 27	2. 85	40. 12	74. 00	-33. 88	Peak	

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





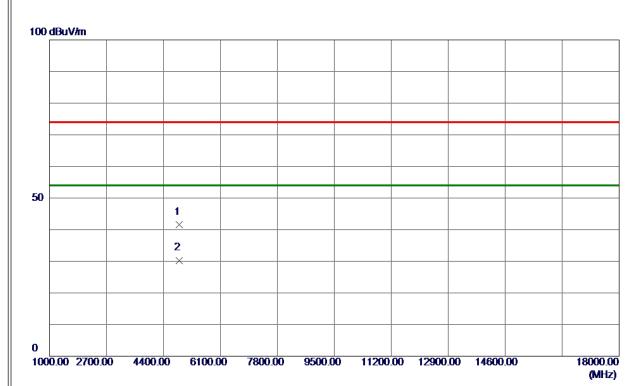


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2438. 8000	92. 74	7. 76	100. 50	54. 00	46. 50	AVG	No Limit
2	2439. 7500	94. 39	7. 76	102. 15	74. 00	28. 15	Peak	No Limit

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





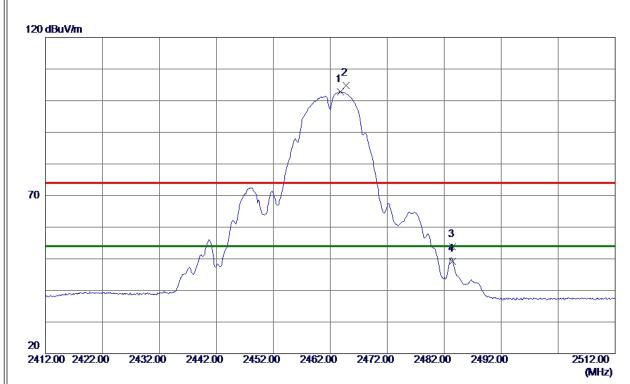


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4869. 6600	38. 64	2. 95	41. 59	74.00	-32. 41	Peak	
2 *	4870. 4900	27. 35	2. 95	30. 30	54. 00	-23. 70	AVG	

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





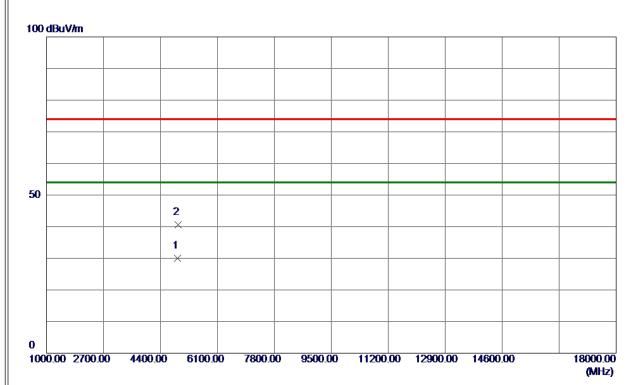


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2463. 8000	95. 08	7. 79	102. 87	54.00	48. 87	AVG	No Limit
2	2464. 7500	96. 96	7. 79	104. 75	74.00	30. 75	Peak	No Limit
3	2483. 5000	46. 05	7. 81	53. 86	74.00	-20. 14	Peak	
4	2483. 5000	41. 45	7. 81	49. 26	54.00	-4. 74	AVG	

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





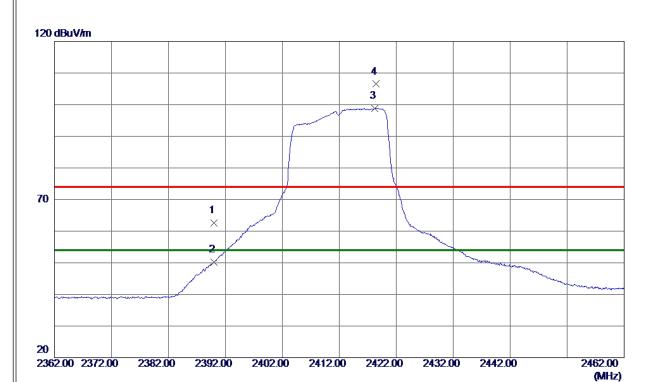


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4915. 4700	26. 93	3. 05	29. 98	54.00	-24. 02	AVG	
2	4930. 3100	37. 53	3. 09	40. 62	74. 00	-33. 38	Peak	

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





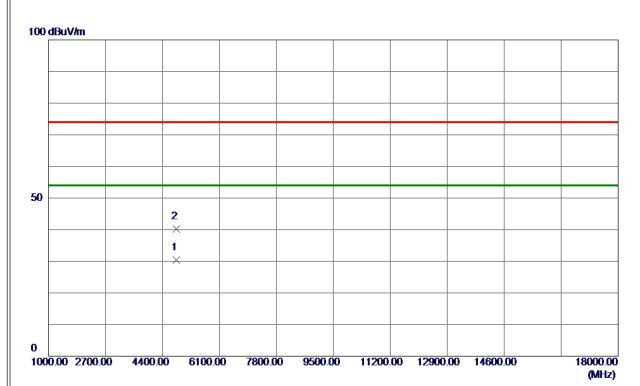


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	54. 99	7. 70	62. 69	74.00	-11. 31	Peak	
2	2390. 0000	42. 59	7. 70	50. 29	54.00	-3. 71	AVG	
3 *	2418. 2000	91. 06	7. 73	98. 79	54.00	44. 79	AVG	No Limit
4	2418. 4500	98. 77	7. 73	106. 50	74.00	32. 50	Peak	No Limit

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





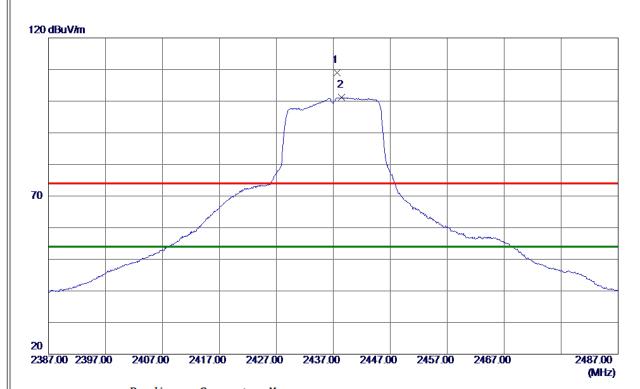


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4824. 5600	27. 65	2. 84	30. 49	54.00	-23. 51	AVG	
2	4824. 7700	37. 42	2. 84	40. 26	74. 00	-33. 74	Peak	

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



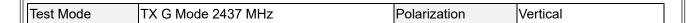


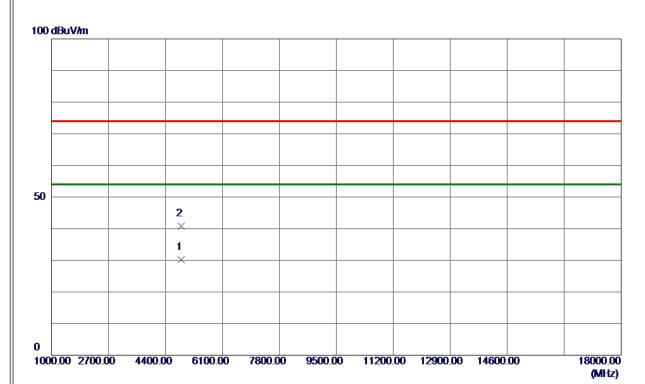


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2437. 7000	101. 24	7. 76	109. 00	74.00	35. 00	Peak	No Limit
2 *	2438. 5000	93. 36	7. 76	101. 12	54.00	47. 12	AVG	No Limit

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





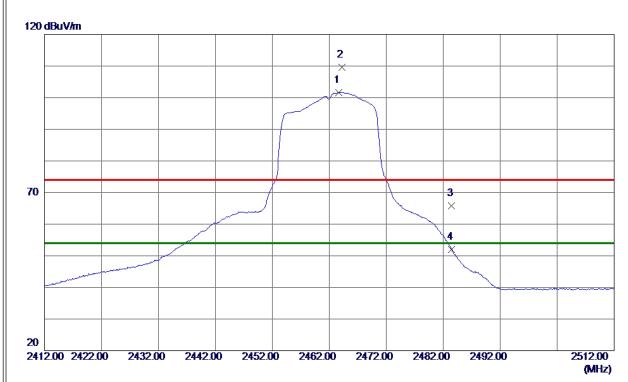


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874. 5800	27. 33	2. 96	30. 29	54.00	-23. 71	AVG	
2	4874. 7300	37. 83	2. 96	40. 79	74.00	-33. 21	Peak	

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





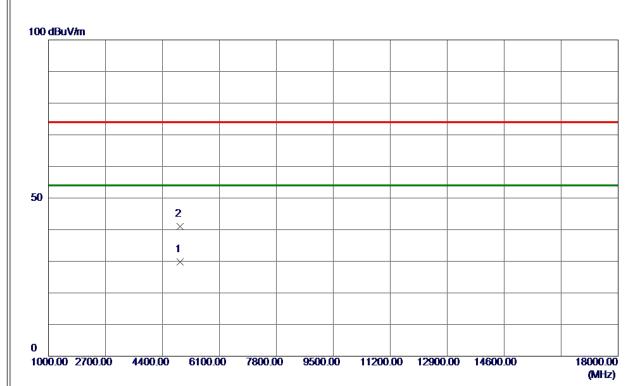


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2463. 7000	93. 82	7. 79	101. 61	54.00	47. 61	AVG	No Limit
2	2464. 2500	101. 73	7. 79	109. 52	74.00	35. 52	Peak	No Limit
3	2483. 5000	58. 02	7. 81	65. 83	74.00	-8. 17	Peak	
4	2483. 5000	44. 15	7. 81	51. 96	54.00	-2.04	AVG	

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







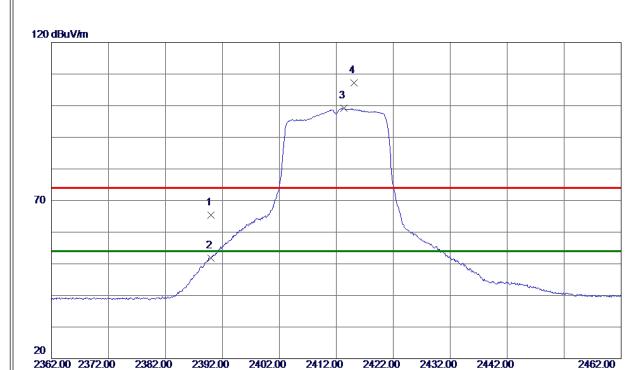
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4920. 8100	26. 75	3. 07	29.82	54.00	-24. 18	AVG	
2	4922. 9100	37. 84	3. 07	40. 91	74. 00	-33. 09	Peak	

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

(MHz)



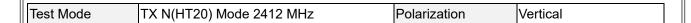


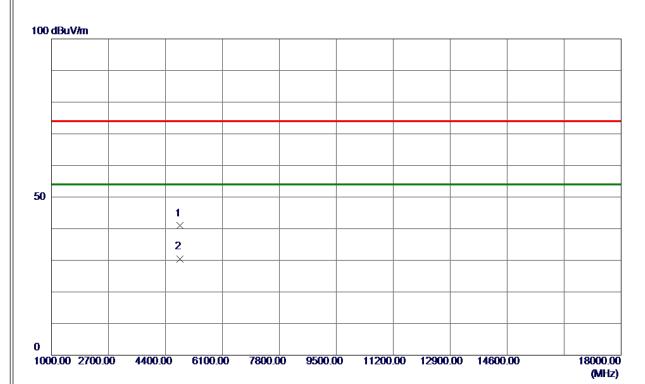


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	57. 72	7. 70	65. 42	74.00	-8. 58	Peak	
2	2390. 0000	44. 19	7. 70	51. 89	54.00	-2. 11	AVG	
3 *	2413. 3500	91. 41	7. 73	99. 14	54.00	45. 14	AVG	No Limit
4	2415. 1000	99. 43	7. 73	107. 16	74.00	33. 16	Peak	No Limit

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





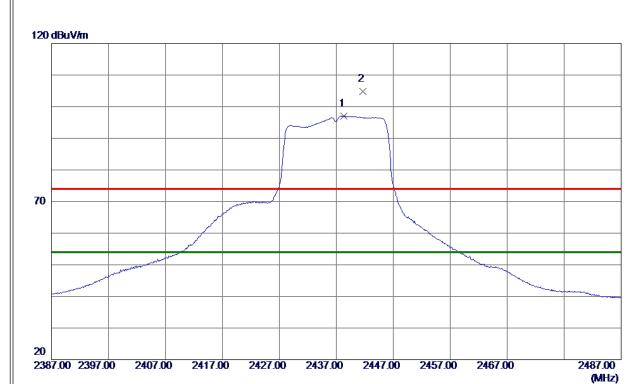


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4825. 2400	38. 06	2. 84	40. 90	74.00	-33. 10	Peak	
2 *	4825. 9000	27. 52	2. 84	30. 36	54. 00	-23. 64	AVG	

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



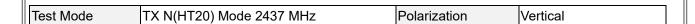


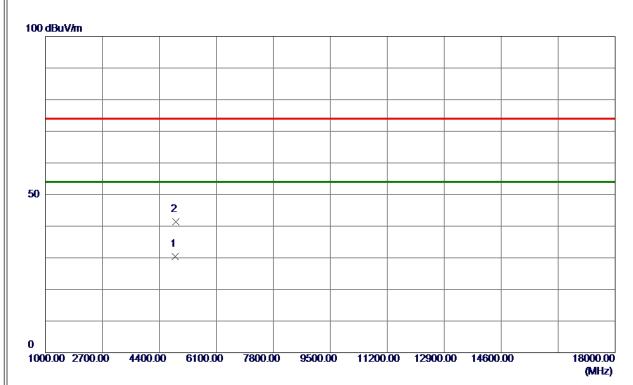


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2438. 3000	89. 24	7. 76	97. 00	54.00	43.00	AVG	No Limit
2	2441. 7000	96. 96	7. 76	104. 72	74.00	30. 72	Peak	No Limit

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





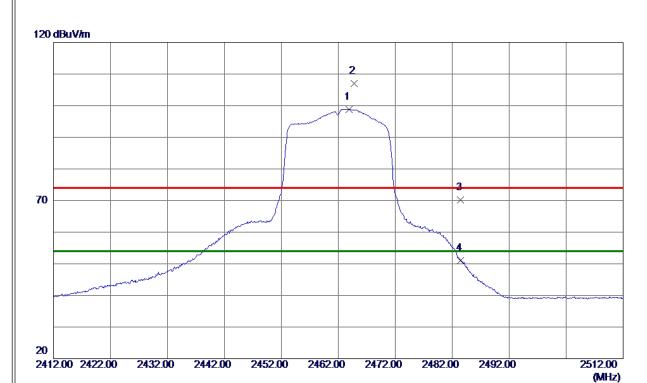


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873. 6200	27. 41	2. 96	30. 37	54.00	-23. 63	AVG	
2	4883. 4800	38. 43	2. 98	41. 41	74. 00	-32.59	Peak	

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



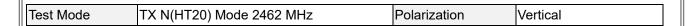


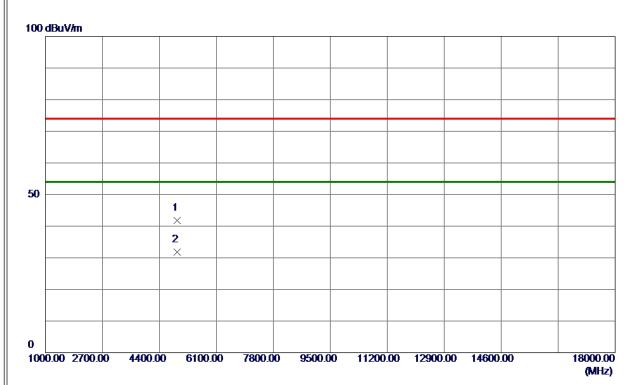


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2463. 9000	91. 10	7. 79	98. 89	54.00	44. 89	AVG	No Limit
2	2464. 7500	99. 27	7. 79	107. 06	74.00	33. 06	Peak	No Limit
3	2483. 5000	62. 37	7. 81	70. 18	74.00	-3.82	Peak	
4	2483. 5000	43. 19	7. 81	51. 00	54.00	-3. 00	AVG	

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



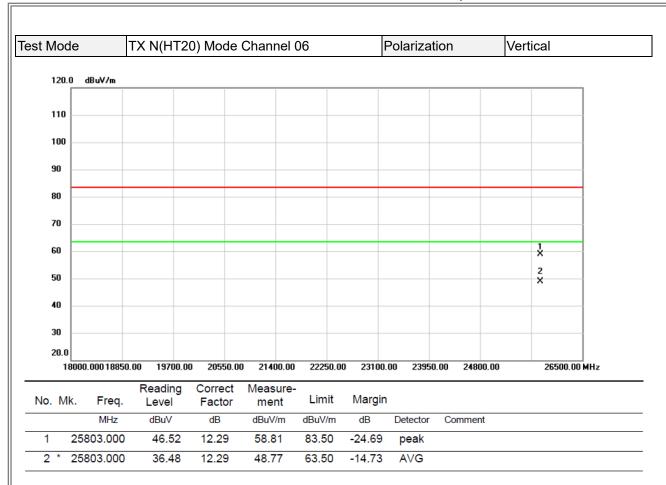




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924. 8300	38. 74	3. 07	41.81	74.00	-32. 19	Peak	
2 *	4925. 8400	28. 80	3. 08	31. 88	54. 00	-22. 12	AVG	

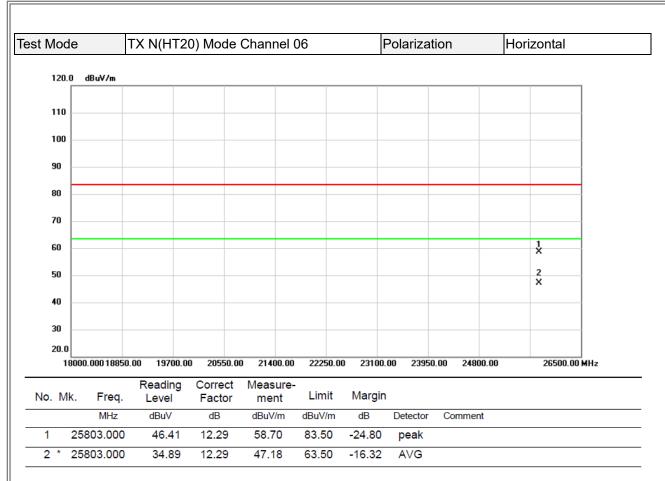
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.





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





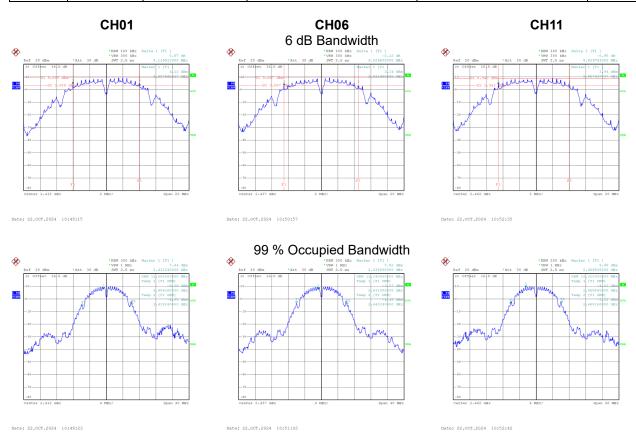


APPENDIX E - BANDWIDTH	



Test Mode	TX B Mode

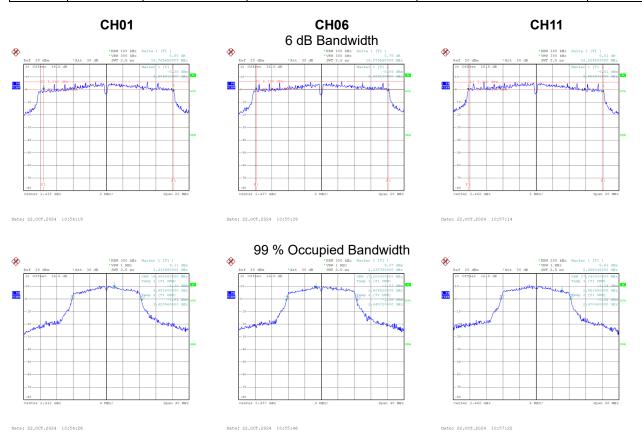
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	8.120	12.080	0.5	Complies
06	2437	9.030	12.240	0.5	Complies
11	2462	8.640	12.320	0.5	Complies





Test Mode	TX G Mode

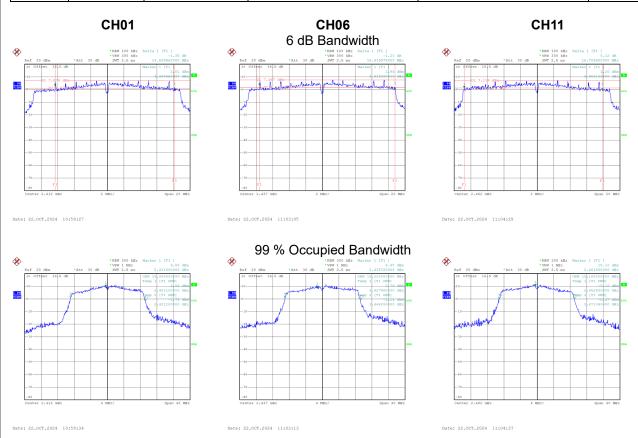
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.770	16.960	0.5	Complies
06	2437	16.080	17.200	0.5	Complies
11	2462	16.330	17.040	0.5	Complies





Test Mode	TX N(HT20) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	14.510	18.080	0.5	Complies
06	2437	16.420	18.320	0.5	Complies
11	2462	16.710	18.160	0.5	Complies





APPENDIX F - MAXIMUM OUTPUT POWER



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Ш		
	Test Mode	TX B Mode Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.25	30.00	1.0000	Complies
06	2437	21.08	30.00	1.0000	Complies
11	2462	21.16	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.81	30.00	1.0000	Complies
06	2437	25.39	30.00	1.0000	Complies
11	2462	25.28	30.00	1.0000	Complies

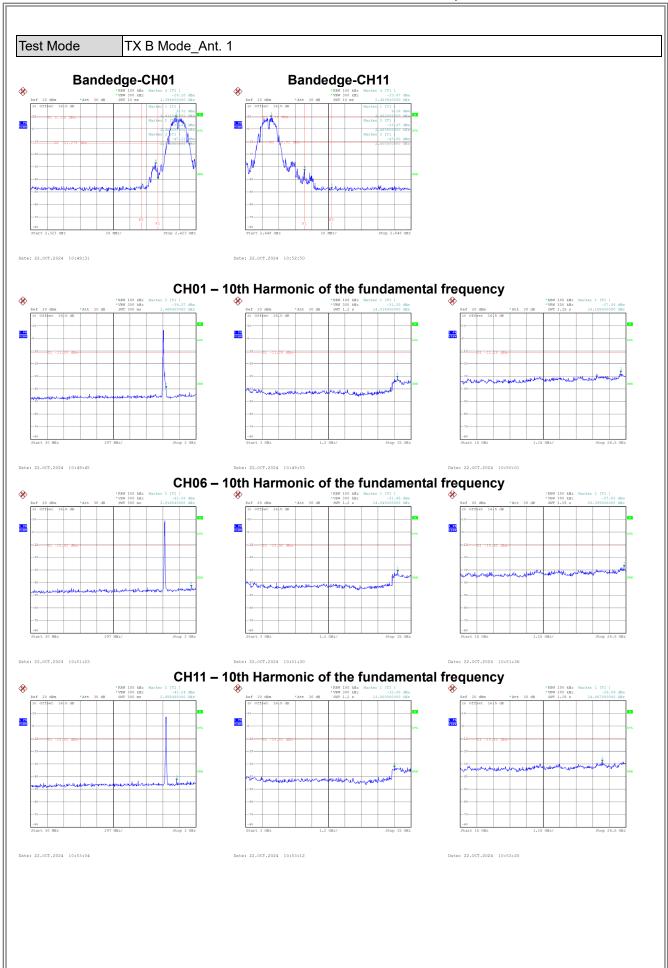
Test Mode	TX N(HT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.94	30.00	1.0000	Complies
06	2437	25.45	30.00	1.0000	Complies
11	2462	25.35	30.00	1.0000	Complies

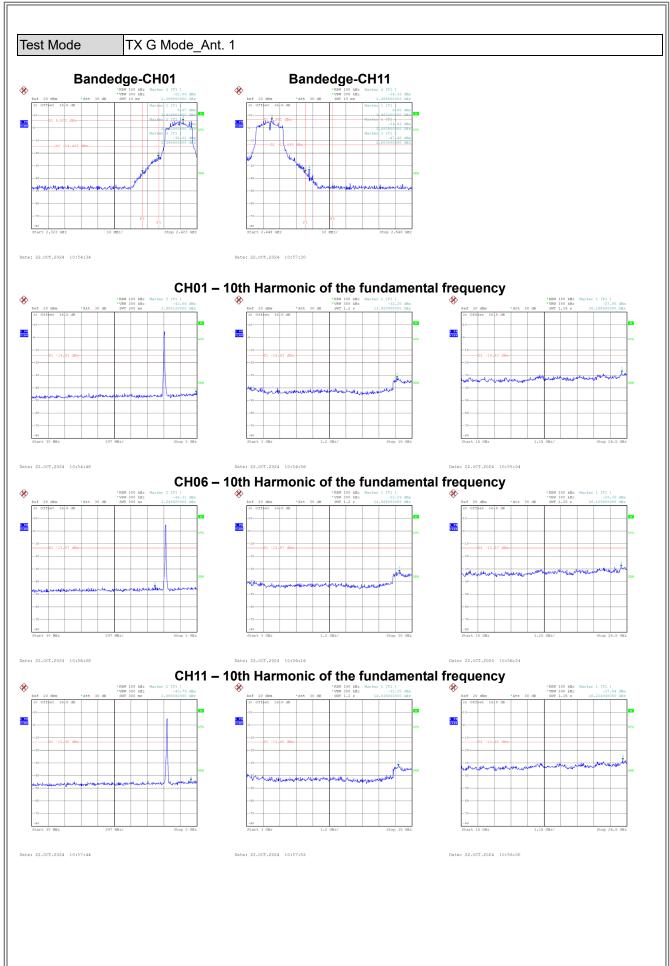


APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

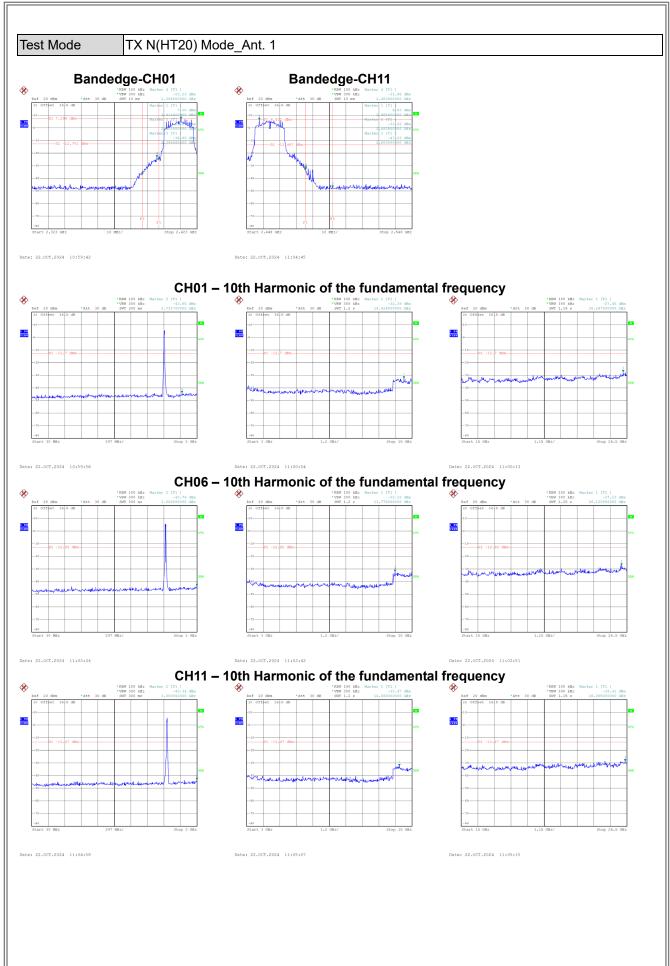














APPENDIX H - POWER SPECTRAL DENSITY



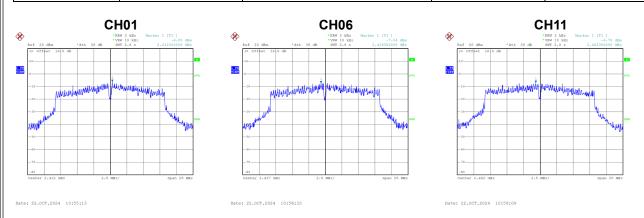
	Test Mode	TX B Mode	Ant	1
ı	163L MOGE	I X D MOGE	ΛIII.	- 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-4.82	8.00	Complies
06	2437	-5.36	8.00	Complies
11	2462	-5.67	8.00	Complies



Те	st Mode	TX G Mode Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-6.05	8.00	Complies
06	2437	-7.04	8.00	Complies
11	2462	-6.78	8.00	Complies





Test Mode	TX N(HT20) Mode_Ant. 1
100t Woodo	170 14(111 20) WOOO 7 WILL 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-6.81	8.00	Complies
06	2437	-7.42	8.00	Complies
11	2462	-4.75	8.00	Complies

