



FCC Radio Test Report

FCC ID: 2AZ3ICC360

This report concerns: Original Grant

Project No. : 2406C263

Equipment : Projector

Brand Name : HP

Test Model : CC360

Series Model : CC360 Pro

Applicant: GT Technology Chongqing Limited

Address : No. 1195 Mingtao 1st Road, Changshou District, Chongqing, P.R. China

Manufacturer : GT Technology Chongqing Limited

Address : No. 1195 Mingtao 1st Road, Changshou District, Chongqing, P.R. China

Factory : GT Technology Chongqing Limited

Address : No. 1195 Mingtao 1st Road, Changshou District, Chongqing, P.R. China

Date of Receipt : Jul. 01, 2024

Date of Test : Jul. 01, 2024 ~ Sep. 12, 2024

Issued Date : Nov. 01, 2024

Report Version : R00

Test Sample: Engineering Sample No.: DG2024070144 for conducted,

DG2024070145 for radiated.

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

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

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

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

Limitation

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



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REPORT ISSUED HISTORY

Report No. Version		Description	Issued Date	Note
BTL-FCCP-3-2406C263	R00	Original Report.	Nov. 01, 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:

Те	st Site	Method	Measurement Frequency Range	
D	G-C02	CISPR	150kHz ~ 30MHz	2.88

B. Radiated emissions test:

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	U,(dB)
DG-CB03 (3m) CISPR		30MHz ~ 200MHz	V	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	Test Date
AC Power Line Conducted Emissions	25°C	62%	AC 120V/60Hz	Hayden Chen	Jul. 12, 2024
Radiated Emissions- 9kHz to 30 MHz	24°C	51%	AC 120V/60Hz	Hayden Chen	Jul. 11, 2024
Radiated Emissions- 30MHz to 1000MHz	25°C	60%	AC 120V/60Hz	Chen Mo	Jul. 11, 2024
Padiated Emissions	25°C	60%	AC 120V/60Hz	Jensen Zhou	Jul. 13, 2024
Radiated Emissions- Above 1000MHz	24°C	54%	AC 120V/60Hz	Allen Tong	Sep. 03, 2024
Above 1000IVII IZ	23°C	51%	AC 120V/60Hz	Allen Tong	Sep. 10, 2024
Bandwidth	22-24°C	45-52%	DC 19.5V	Parker Yang	Jul. 11, 2024~ Sep. 12, 2024
Maximum Output Power	24°C	54%	DC 19.5V	Steve Zhou	Jul. 10, 2024~ Aug. 27, 2024
Conducted Spurious Emissions	22-24°C	45-52%	DC 19.5V	Parker Yang	Jul. 11, 2024~ Sep. 12, 2024
Power Spectral Density	22-24°C	45-52%	DC 19.5V	Parker Yang	Jul. 11, 2024~ Sep. 12, 2024



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Projector		
Brand Name	HP		
Test Model	CC360		
Series Model	CC360 Pro		
Model Difference(s)	Only the model name is different, the rest are exactly the same.		
Software Version	CC360-9.0.0-20240803.0931		
Hardware Version	V1.0		
Power Source	DC Voltage supplied from AC adapter. Model: TPN-DA18		
Power Rating	I/P: 100-240V ~ 50/60Hz 1.7A O/P: 19.5V = 4.62A		
Operation Frequency	2412 MHz ~ 2462 MHz		
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA		
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 150 Mbps IEEE 802.11ax: up to 286.8 Mbps		
Maximum Output Power	IEEE 802.11g: 15.11 dBm (0.0324 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 -	CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20), IEEE 802.11ax(HE20) CH03 - CH09 for IEEE 802.11n(HT40), IEEE 802.11ax(HE40)						
		5 - CHU9 IOI	_	l(□140), IE		(⊓⊑40)	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	(MHz)		(MHz)		(MHz)		(MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	80	2447	11	2462
03	2422	06	2437	09	2452		

3. Table for Filed Antenna:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	ShenZhen Aihui	505-1-WIFI-AH	PIFA	N/A	1.88
!	Technology Co., Ltd	303-1-WIFI-ATT	FIFA	IN/A	1.00



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(HT40) Mode Channel 03/06/09	
Mode 5	TX AX(HE20) Mode Channel 01/06/11	
Mode 6	TX AX(HE40) Mode Channel 03/06/09	
Mode 7	TX G Mode Channel 11	

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 7	TX G Mode Channel 11		

Radiated emissions test - Below 1GHz			
Final Test Mode	Description		
Mode 7	TX G Mode Channel 11		

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		
Mode 4	TX N(HT40) Mode Channel 03/06/09		
Mode 5	TX AX(HE20) Mode Channel 01/06/11		
Mode 6	TX AX(HE40) Mode Channel 03/06/09		



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		
Mode 4	TX N(HT40) Mode Channel 03/06/09		
Mode 5	TX AX(HE20) Mode Channel 01/06/11		
Mode 6	TX AX(HE40) Mode Channel 03/06/09		

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 G Mode Channel 11 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, the Vertical antennas and Horizontal antennas are evaluated, the worst case is Vertical antennas and recorded.

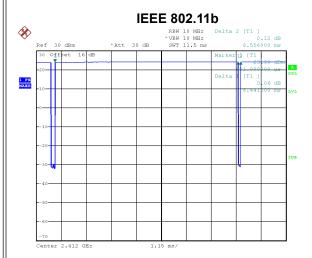
3.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	IPOP_V4.0		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	7	7	7
IEEE 802.11g	14	16	18
IEEE 802.11n(HT20)	14	16	19
IEEE 802.11ax(HE20)	14	17	19
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	16	18	18
IEEE 802.11ax(HE40)	15	19	17



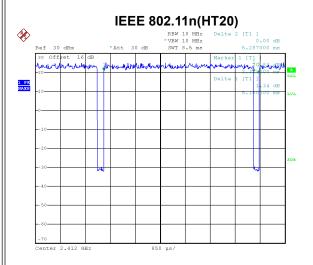
3.4 DUTY CYCLE

If duty cycle is \geq 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered. The output power = measured power + duty factor.



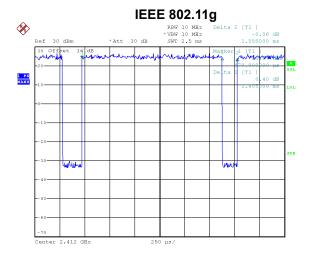
Date: 12.JUL.2024 14:35:23

Duty cycle = 8.441 ms / 8.556 ms = 98.66% Duty Factor = 10 log(1/Duty cycle) = 0.00



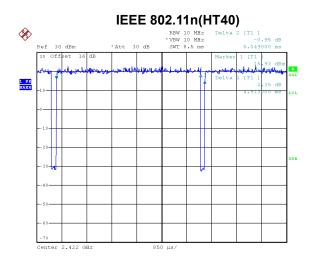
Date: 12.JUL.2024 14:38:18

Duty cycle = 5.100 ms / 5.287 ms = 96.46% Duty Factor = 10 log(1/Duty cycle) = 0.16



Date: 12.JUL.2024 14:37:35

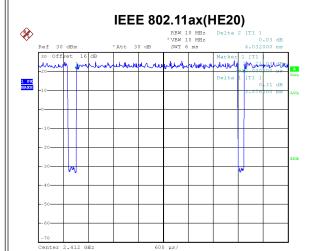
Duty cycle = 1.405 ms / 1.555 ms = 90.35% Duty Factor = 10 log(1/Duty cycle) = 0.44



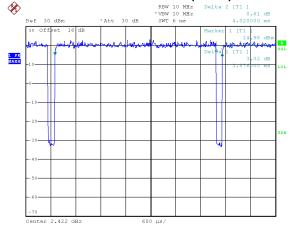
Date: 12.JUL.2024 14:39:02

Duty cycle = 4.913 ms / 5.049 ms = 97.31% Duty Factor = 10 log(1/Duty cycle) = 0.12









Date: 12.JUL.2024 14:41:15

Duty cycle = 3.876 ms / 4.032 ms = 96.13% Duty Factor = 10 log(1/Duty cycle) = 0.17 Date: 12.JUL.2024 14:43:11

Duty cycle = 3.876 ms / 4.020 ms = 96.42% Duty Factor = 10 log(1/Duty cycle) = 0.16

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 712 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 196 Hz.

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 204 Hz.

For IEEE 802.11ax(HE20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 258 Hz.

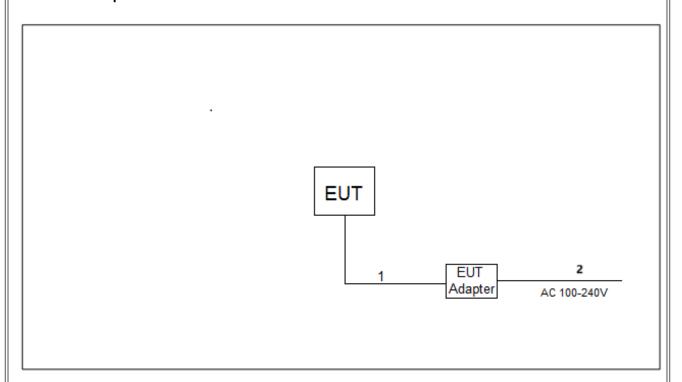
For IEEE 802.11ax(HE40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 258 Hz.

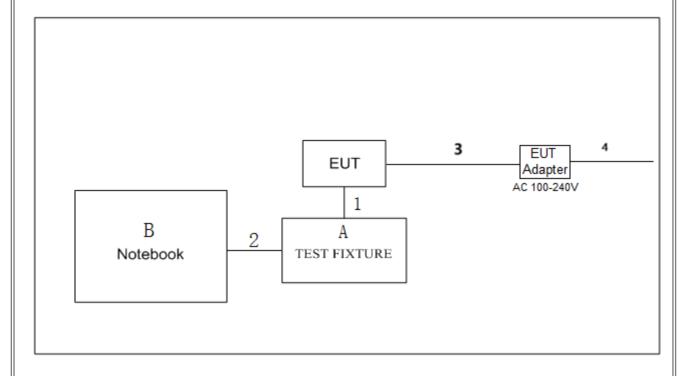


3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

AC power line conducted emissions and Radiated emissions test - Below 1GHz



Radiated emissions test - Above 1GHz





3.6 SUPPORT UNITS

AC power line conducted emissions and Radiated emissions test - Below 1GHz

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1m
2	AC Cable	NO	NO	1m

Radiated emissions test - Above 1GHz

Item	Equipment	Brand	Model No.	Series No.
Α	Test Fixture	N/A	N/A	N/A
В	Notebook	HUAWEI	WFH9	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	Data Cable	NO	NO	0.2m
2	USB Cable	NO	NO	1m
3	DC Cable	NO	NO	1m
4	AC Cable	NO	NO	1m

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

Fraguency of Emission (MHz)	Limit (dl	ΒμV)
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:

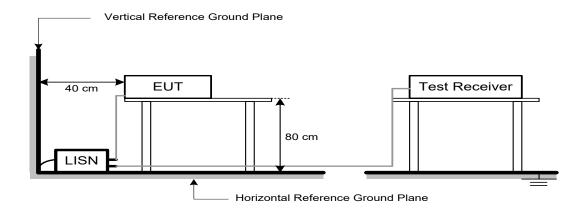
Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

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

Note:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

(4)

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

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

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

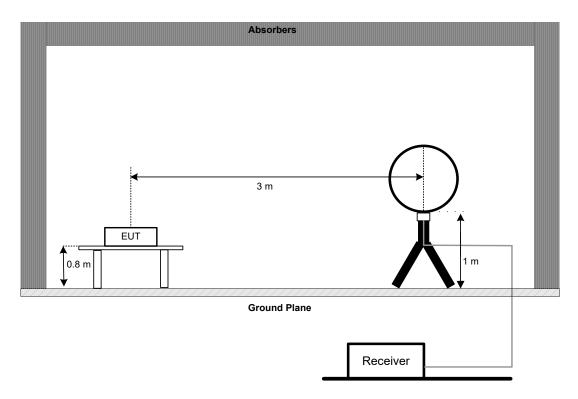


5.3 DEVIATION FROM TEST STANDARD

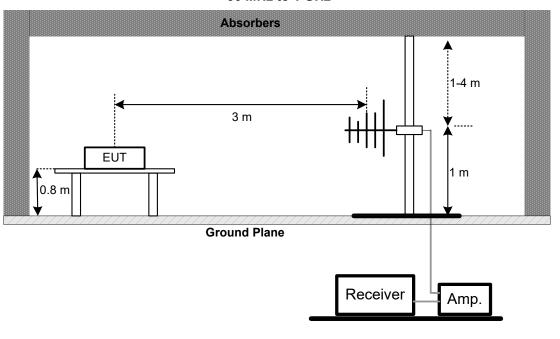
No deviation.

5.4 TEST SETUP

9 kHz to 30 MHz



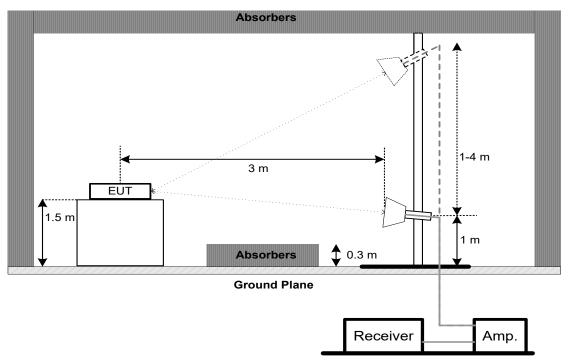
30 MHz to 1 GHz



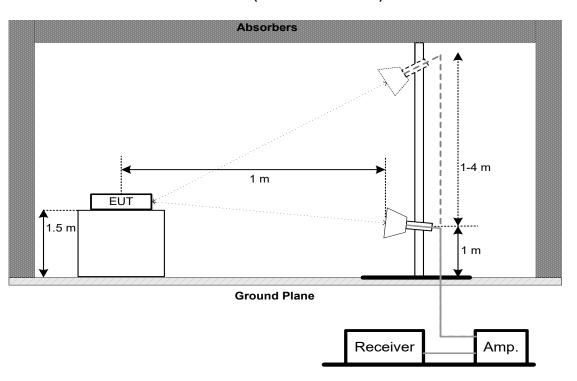


Above 1 GHz

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:

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

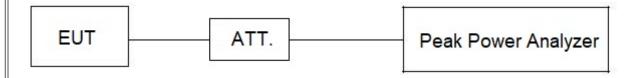
7.2 TEST PROCEDURE

- 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 11.9.2.3.1 (for AVG 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	
1 00 10.2 17 (0)	1 ower operar Benery	(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-9M -001	9M	Nov. 27, 2024		
5	643 Shield Room	ETS	6*4*3	N/A	N/A		

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

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



	Radiated Emissions - Above 1 GHz							
14								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	May 31, 2025			
2	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330 -K	619413	Jul. 06, 2024			
3	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 26, 2024			
4	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 26, 2024			
5	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	1227	Oct. 10, 2024			
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	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024			
9	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Nov. 17, 2024			
10	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 20, 2025			
11	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Feb. 19, 2025			
12	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Aug. 08, 2024			
13	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Aug. 08, 2024			
14	Preamplifier	EMC INSTRUMENT	EMC184045SE	980905	Nov. 19, 2024			

Bandwidth & Conducted Spurious Emissions & Power Spectral Density							
Item	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated unti						
1	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A		
2	2 Measurement BTL BTL Conducted N/A N/A N/A						
3	Spectrum Analyzer	R&S	FSP40	100185	May 31, 2025		

	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	

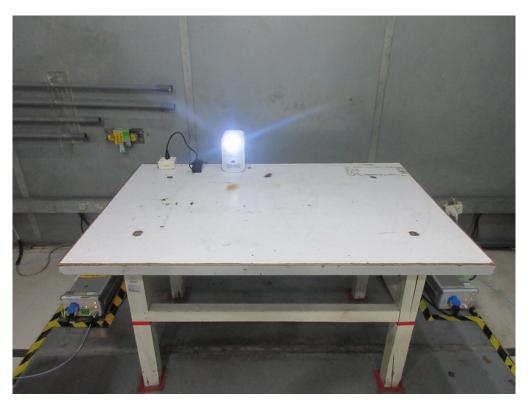
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.



11. EUT TEST PHOTO



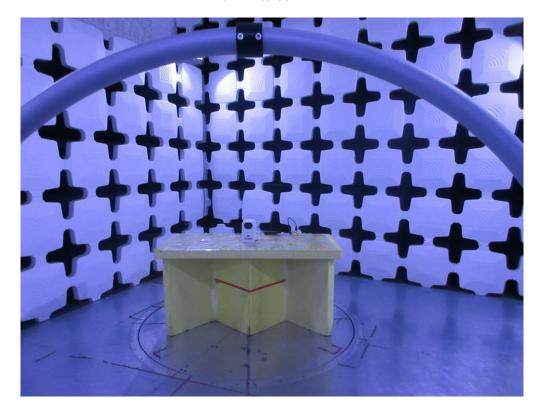


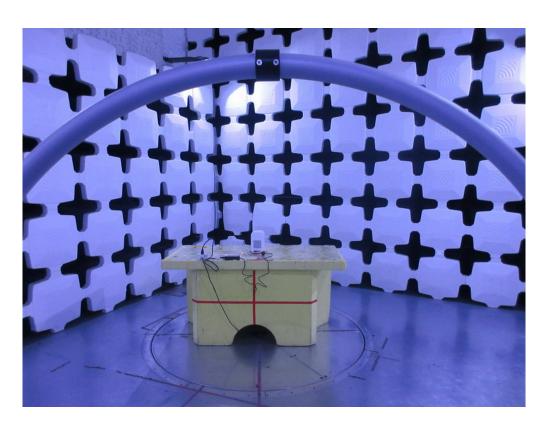




Radiated Emissions Test Photos

9 kHz to 30 MHz

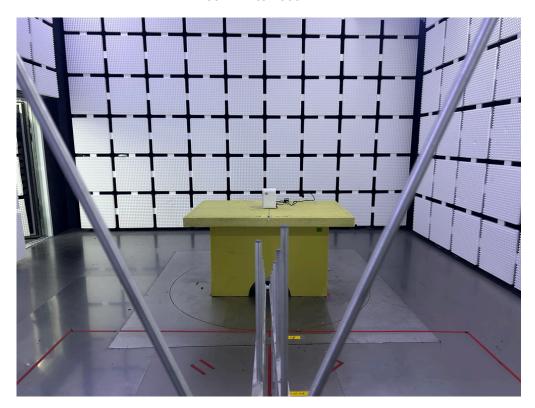


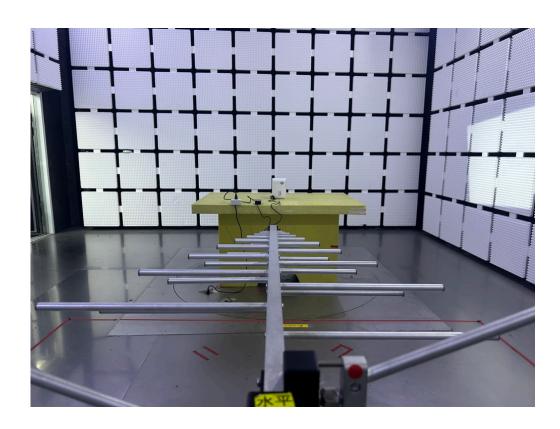




Radiated Emissions Test Photos

30 MHz to 1000 MHz

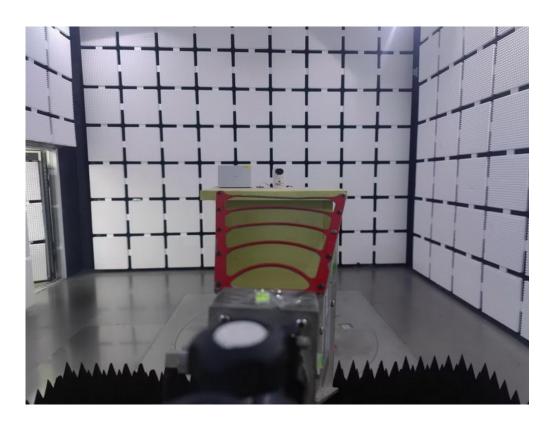






Radiated Emissions Test Photos Above 1 GHz_ Bandedge & Harmonic (1 GHz to 18 GHz)

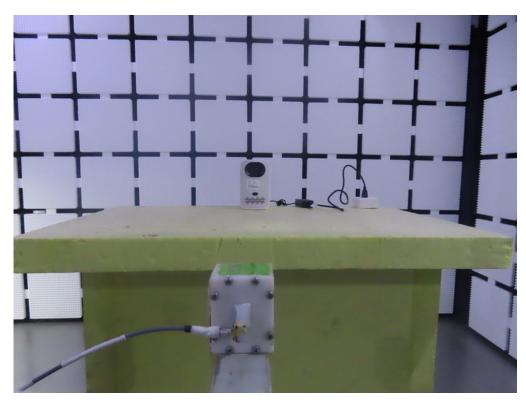


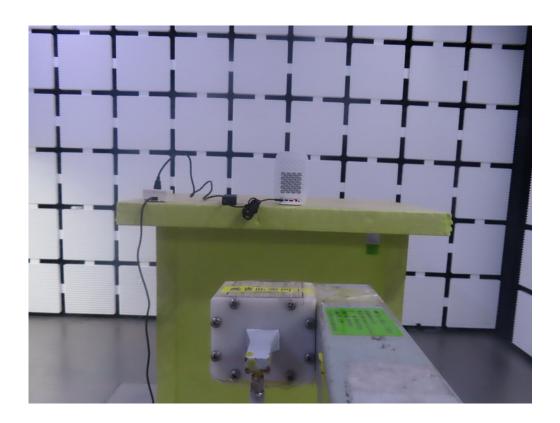




Radiated Emissions Test Photos

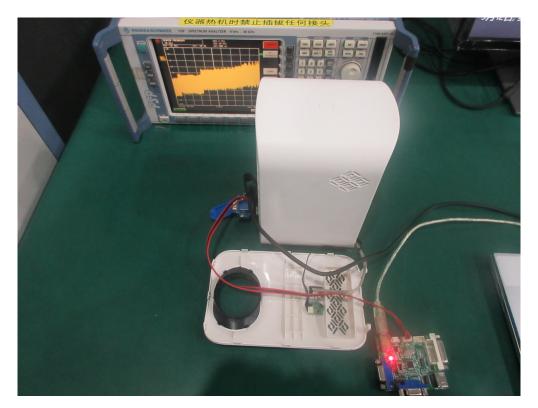
Above 1 GHz_Harmonic (18 GHz to 26.5 GHz)

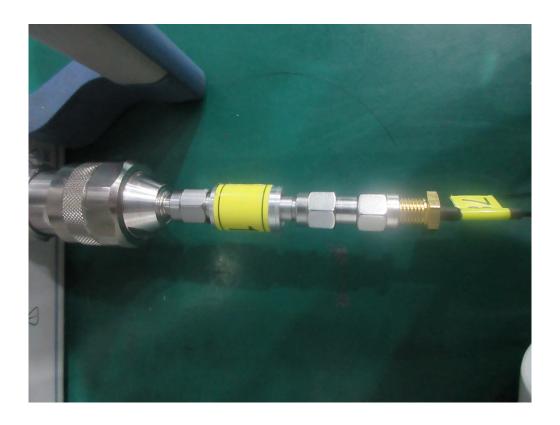






Conducted Test Photos



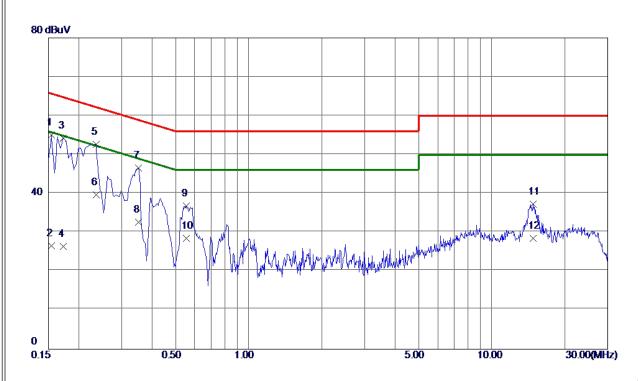




APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS





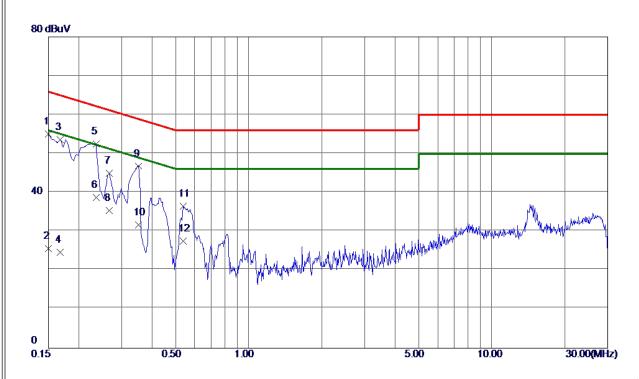


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1545	45. 13	9. 97	55. 10	65. 75	-10. 65	QP	
2	0. 1545	16. 60	9. 97	26. 57	55. 75	-29. 18	AVG	
3	0. 1725	44. 22	9. 97	54. 19	64. 84	-10. 65	QP	
4	0. 1725	16. 40	9. 97	26. 37	54.84	-28. 47	AVG	
5 *	0. 2355	42.63	10. 04	52. 67	62. 25	-9. 58	QP	
6	0. 2355	29. 60	10.04	39. 64	52. 25	-12. 61	AVG	
7	0. 3525	36. 31	10. 29	46. 60	58. 90	-12. 30	QP	
8	0. 3525	22. 30	10. 29	32. 59	48. 90	-16. 31	AVG	
9	0. 5550	26. 00	10. 74	36. 74	56.00	-19. 26	QP	
10	0. 5550	17. 80	10. 74	28. 54	46.00	−17. 46	AVG	
11	14. 8200	24. 47	12. 82	37. 29	60. 00	-22. 71	QP	
12	14. 8200	15. 61	12. 82	28. 43	50.00	-21. 57	AVG	

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







No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1500	45. 18	9. 93	55. 11	66.00	-10.89	QP	
2	0. 1500	15. 70	9. 93	25. 63	56.00	-30. 37	AVG	
3	0. 1680	43.69	9. 93	53. 62	65. 06	-11. 44	QP	
4	0. 1680	14. 70	9. 93	24. 63	55. 06	-30. 43	AVG	
5 *	0. 2355	42. 54	10.00	52. 54	62. 25	-9. 71	QP	
6	0. 2355	28. 70	10.00	38. 70	52. 25	-13. 55	AVG	
7	0. 2670	34. 93	10.06	44. 99	61. 21	-16. 22	QP	
8	0. 2670	25. 30	10.06	35. 36	51. 21	-15. 85	AVG	
9	0. 3525	36. 54	10. 26	46. 80	58. 90	-12. 10	QP	
10	0. 3525	21.40	10. 26	31. 66	48. 90	-17. 24	AVG	
11	0. 5370	25. 76	10. 66	36. 42	56. 00	-19. 58	QP	
12	0. 5370	16. 90	10. 66	27. 56	46. 00	-18. 44	AVG	

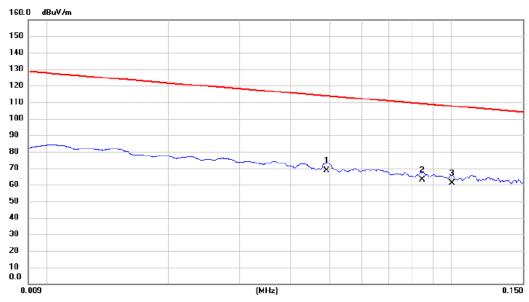
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ







No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0492	47.52	21.20	68.72	113.77	-45.05	AVG	
2	0.0846	41.53	21.30	62.83	109.06	-46.23	AVG	
3	0.1001	39.65	21.33	60.98	107.60	-46.62	QP	

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





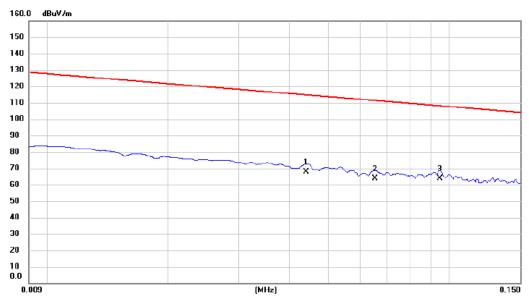


No. Mk.	Freq.			Measure- ment		Margin		
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2993	46.35	21.05	67.40	98.08	-30.68	AVG	
2 *	1.6724	32.95	21.13	54.08	63.14	-9.06	QP	
3	6.8961	22.03	21.19	43.22	69.54	-26.32	QP	

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



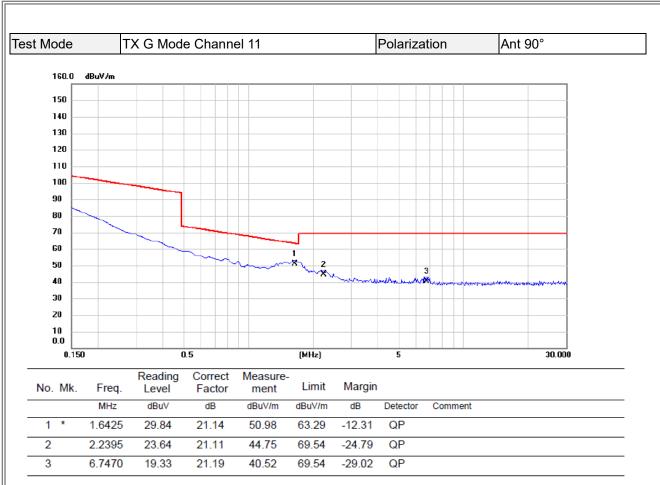




No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0441	46.55	21.17	67.72	114.72	-47.00	AVG	
2	0.0653	42.68	21.25	63.93	111.31	-47.38	AVG	
3 *	0.0946	42.35	21.33	63.68	108.09	-44.41	QP	

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





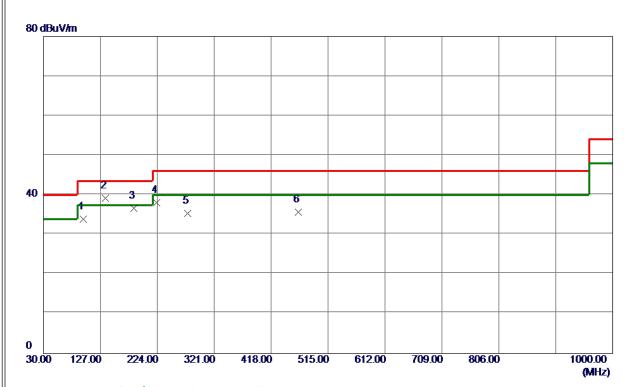
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ



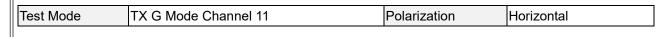


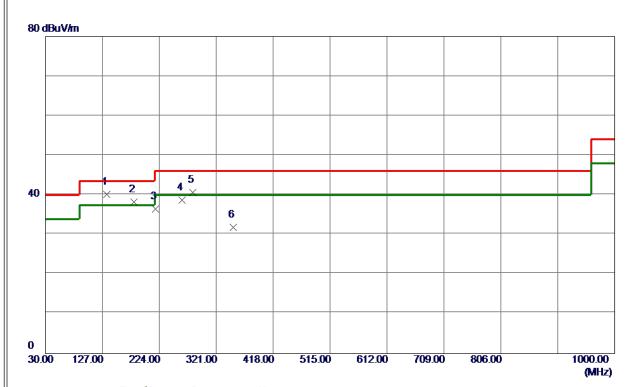


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	97. 9000	50 . 21	-16. 24	33. 97	43. 50	-9. 53	Peak	
2 *	135. 2450	51. 14	-11. 97	39. 17	43. 50	-4. 33	Peak	
3	184. 2300	49. 56	-12.86	36. 70	43. 50	-6. 80	Peak	
4	222. 5450	52. 18	-14. 07	38. 11	46.00	-7. 89	Peak	
5	275. 8950	46. 44	-11. 12	35. 32	46.00	-10. 68	Peak	
6	464. 5600	42. 11	-6. 38	35. 73	46.00	-10. 27	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 *	134. 2750	52. 16	-12. 04	40. 12	43. 50	-3. 38	Peak	
2	181. 3200	50. 63	-12. 40	38. 23	43. 50	-5. 27	Peak	
3	217. 6950	50. 69	-14. 28	36. 41	46.00	-9. 59	Peak	
4	262. 8000	50. 47	-11. 80	38. 67	46.00	-7. 33	Peak	
5	280. 7450	51. 51	-10. 90	40. 61	46.00	-5. 39	Peak	
6	349. 6150	41. 14	-9. 31	31. 83	46. 00	-14. 17	Peak	

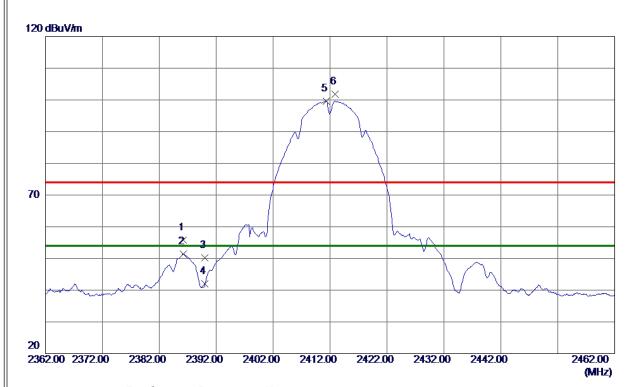
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ





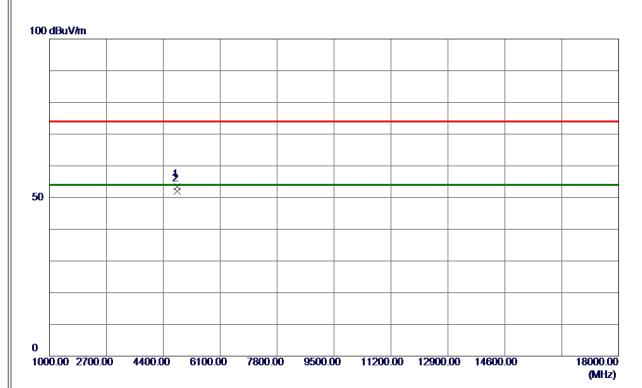


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2386. 2000	48. 17	7. 69	55. 86	74.00	-18. 14	Peak	
2	2386. 2000	43. 79	7. 69	51. 48	54.00	-2. 52	AVG	
3	2390. 0000	42. 47	7. 70	50. 17	74.00	-23.83	Peak	
4	2390. 0000	34. 28	7. 70	41. 98	54.00	-12 . 0 2	AVG	
5 *	2411. 3000	91. 96	7. 72	99. 68	54. 00	45. 68	AVG	No Limit
6	2412. 9000	94. 02	7. 73	101. 75	74.00	27. 75	Peak	No Limit

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





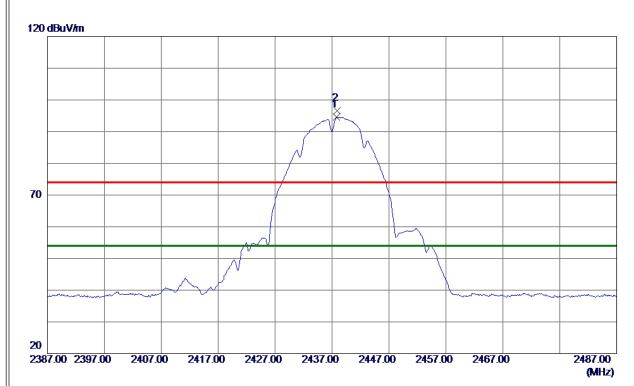


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823. 9600	50. 56	2. 84	53. 40	74.00	-20. 60	Peak	
2 *	4823. 9900	49. 07	2.84	51. 91	54.00	-2. 09	AVG	

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





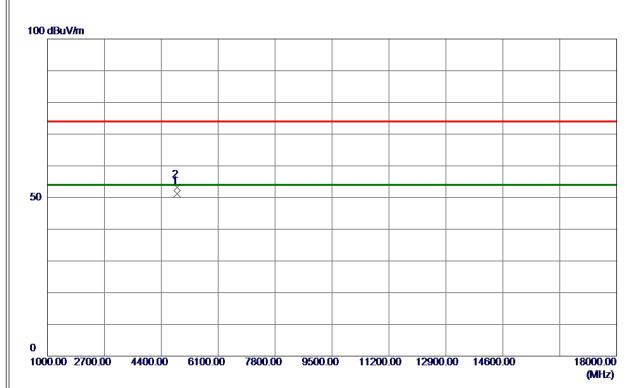


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2437. 8000	86. 76	7. 76	94. 52	54.00	40 . 52	AVG	No Limit
2	2437. 9000	88. 77	7. 76	96. 53	74.00	22. 53	Peak	No Limit

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





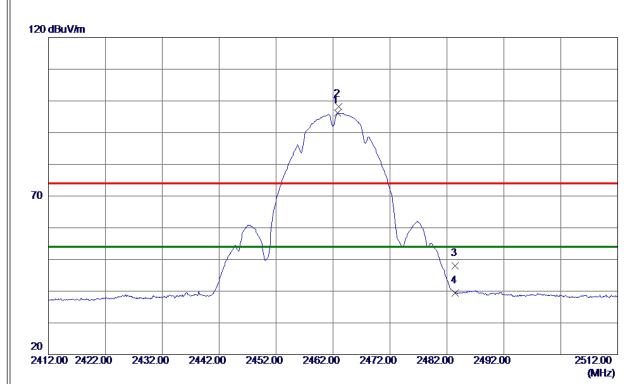


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873. 9800	48. 22	2. 96	51. 18	54.00	-2.82	AVG	
2	4874. 0800	50. 17	2. 96	53. 13	74.00	-20.87	Peak	

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





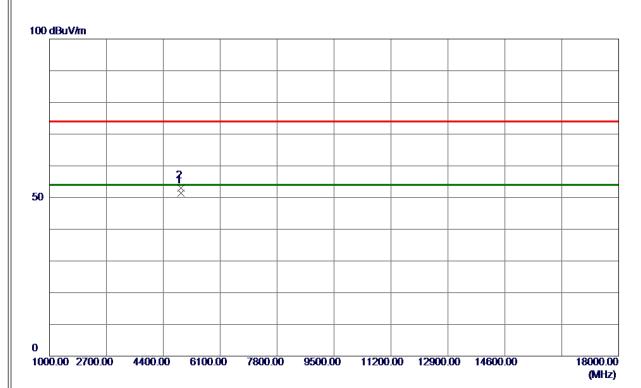


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2462. 8000	88. 38	7. 79	96. 17	54.00	42. 17	AVG	No Limit
2	2462. 9500	90. 33	7. 79	98. 12	74.00	24. 12	Peak	No Limit
3	2483. 5000	40. 23	7. 81	48. 04	74.00	-25.96	Peak	
4	2483. 5000	31. 59	7. 81	39. 40	54.00	-14. 60	AVG	

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



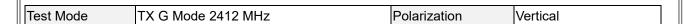


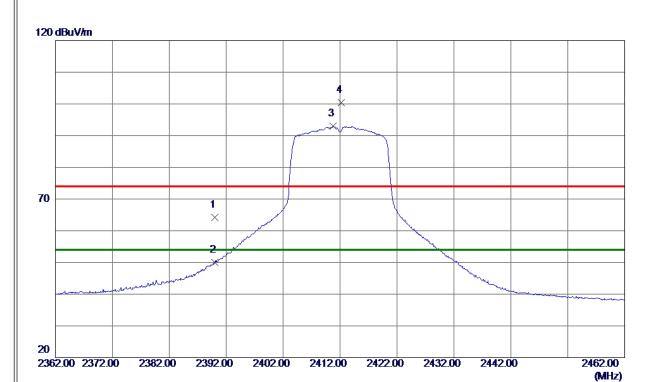


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924. 0099	48. 35	3. 07	51. 42	54.00	-2. 58	AVG	
2	4923. 9900	49.87	3. 07	52. 94	74.00	-21. 06	Peak	

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





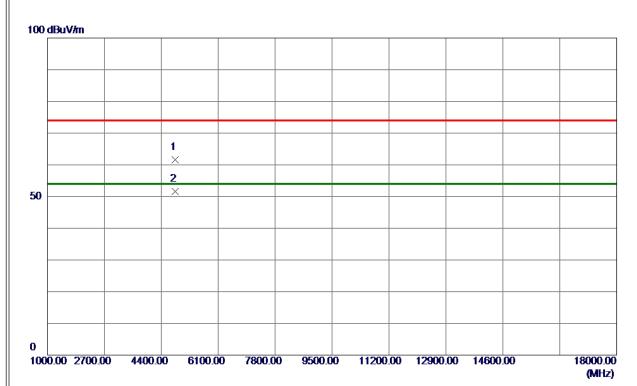


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	56. 54	7. 70	64. 24	74.00	-9. 76	Peak	
2	2390. 0000	42. 37	7. 70	50. 07	54.00	-3. 93	AVG	
3 *	2410. 8000	85. 22	7. 72	92. 94	54.00	38. 94	AVG	No Limit
4	2412. 2000	92. 73	7. 72	100. 45	74. 00	26. 45	Peak	No Limit

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





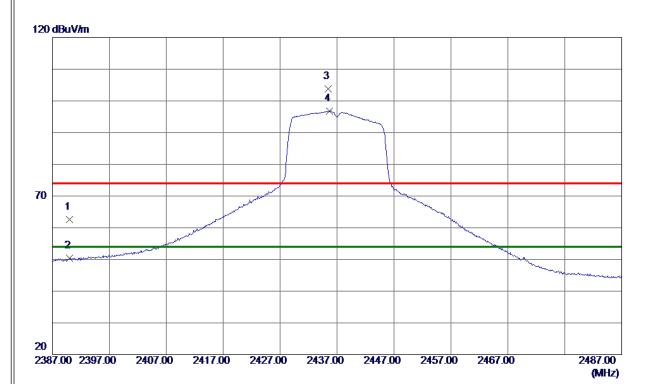


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4821. 6000	58. 70	2. 83	61. 53	74.00	-12. 47	Peak	
2 *	4823, 6000	48. 68	2, 84	51. 52	54. 00	-2, 48	AVG	

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





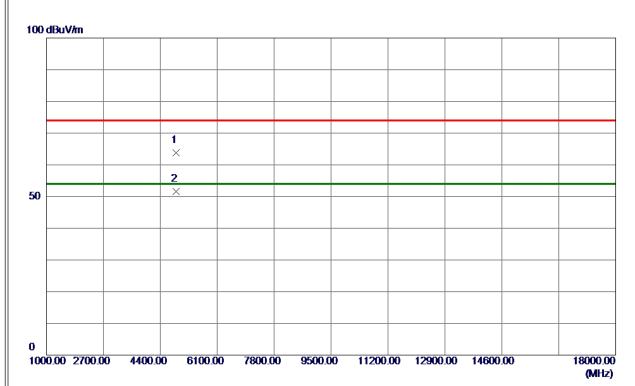


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	54. 83	7. 70	62. 53	74.00	-11. 47	Peak	
2	2390. 0000	42. 61	7. 70	50. 31	54.00	-3. 69	AVG	
3	2435. 4000	95. 97	7. 75	103. 72	74.00	29.72	Peak	No Limit
4 *	2435. 7000	89. 06	7. 75	96. 81	54. 00	42.81	AVG	No Limit

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





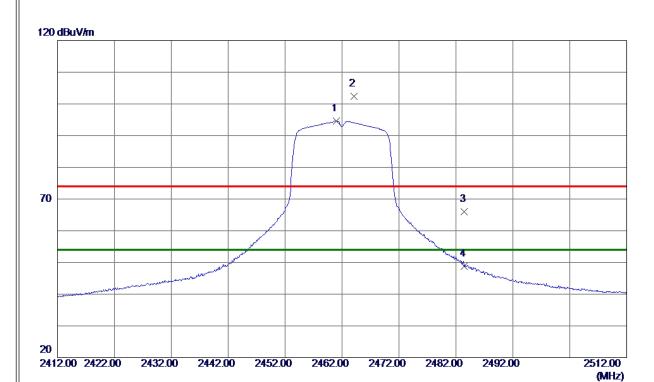


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4870. 4000	60. 83	2. 95	63. 78	74.00	-10. 22	Peak	
2 *	4874, 0000	48. 72	2, 96	51. 68	54. 00	-2, 32	AVG	

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





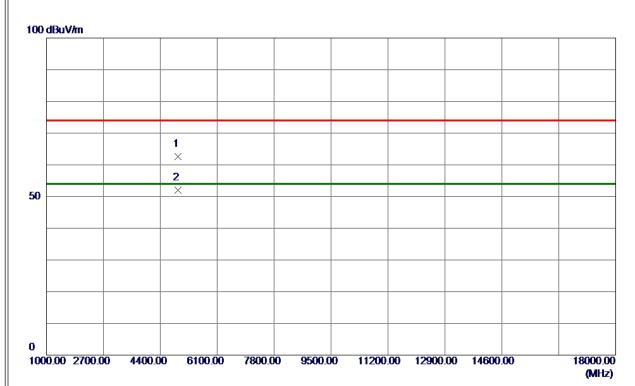


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2461.0500	86. 79	7. 78	94. 57	54.00	40. 57	AVG	No Limit
2	2464. 1000	94. 53	7. 79	102. 32	74.00	28. 32	Peak	No Limit
3	2483. 5000	58. 28	7. 81	66. 09	74.00	-7. 91	Peak	
4	2483. 5000	40. 94	7. 81	48. 75	54.00	-5. 25	AVG	

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





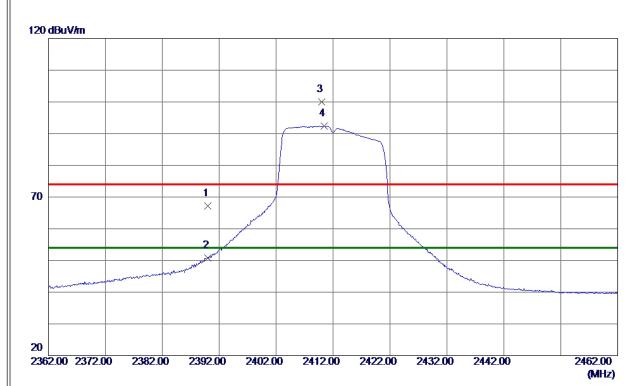


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4919. 8500	59. 49	3. 06	62. 55	74.00	-11. 45	Peak	
2 *	4923, 3000	48. 86	3. 07	51. 93	54. 00	-2. 07	AVG	

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





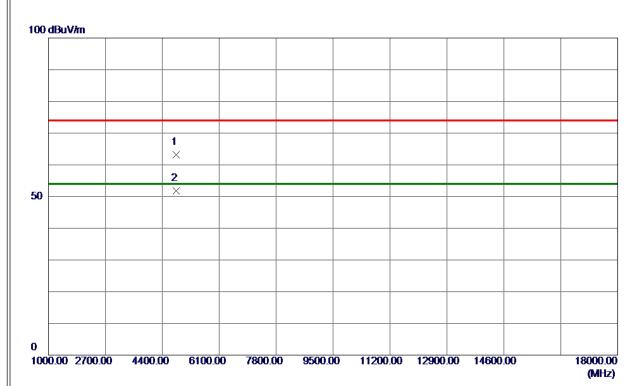


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	59. 46	7. 70	67. 16	74.00	-6. 84	Peak	
2	2390. 0000	43. 15	7. 70	50. 85	54.00	-3. 15	AVG	
3	2409. 9500	92. 35	7. 72	100. 07	74.00	26.07	Peak	No Limit
4 *	2410. 4500	84. 62	7. 72	92. 34	54. 00	38. 34	AVG	No Limit

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





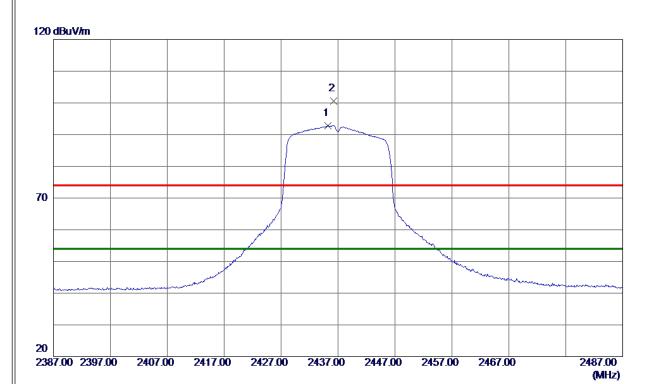


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4821. 2000	60. 39	2. 83	63. 22	74.00	-10. 78	Peak	
2 *	4823, 9500	48. 91	2. 84	51. 75	54. 00	-2.25	AVG	

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



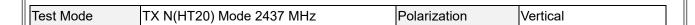


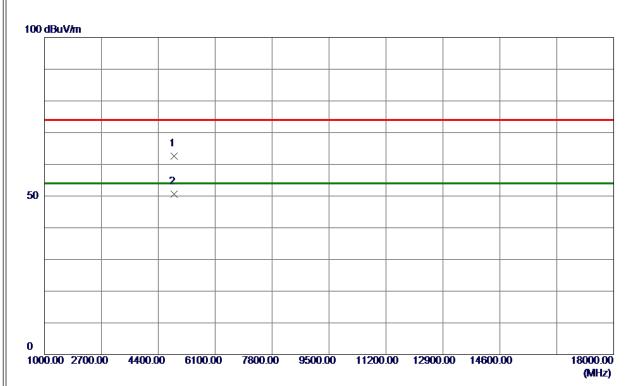


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2435. 2500	85. 08	7. 75	92. 83	54.00	38. 83	AVG	No Limit
2	2436. 2000	92. 89	7. 75	100. 64	74. 00	26. 64	Peak	No Limit

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





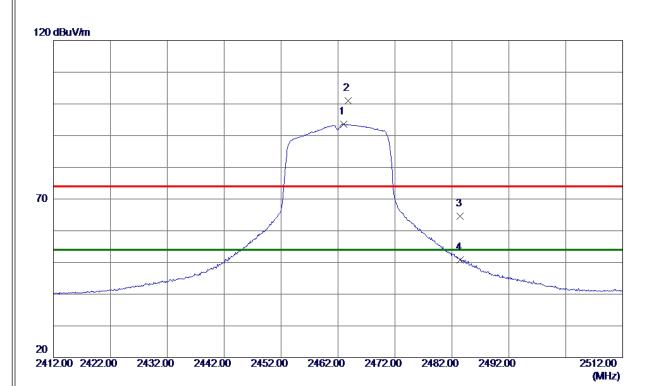


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873. 6000	59. 59	2. 96	62. 55	74.00	-11. 45	Peak	
2 *	4874, 3000	47. 73	2. 96	50. 69	54. 00	-3. 31	AVG	

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





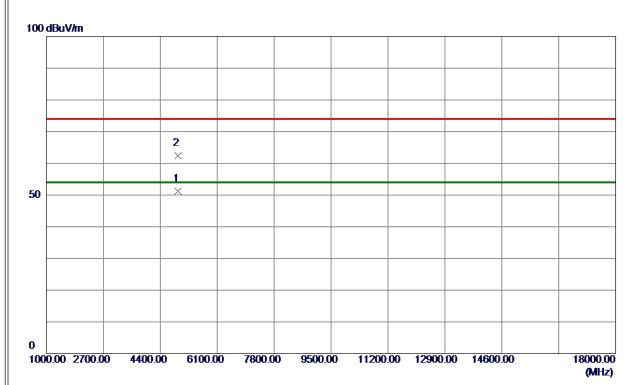


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2463. 0000	85. 78	7. 79	93. 57	74.00	19. 57	Peak	No Limit
2 *	2463. 8000	93. 25	7. 79	101. 04	74.00	27. 04	Peak	No Limit
3	2483. 5000	56. 74	7. 81	64. 55	74.00	-9.45	Peak	
4	2483. 5000	42.92	7. 81	50. 73	54.00	-3. 27	AVG	

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





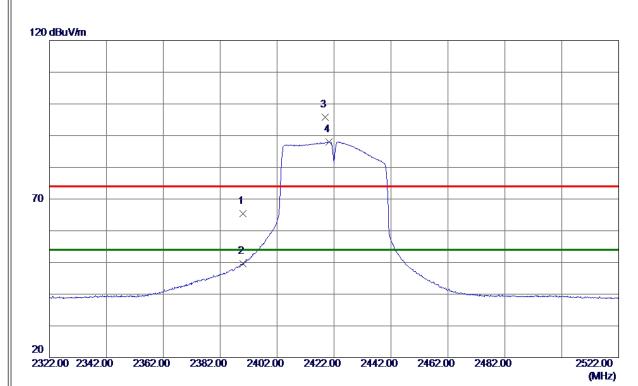


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924. 5500	48. 22	3. 07	51. 29	54.00	-2. 71	AVG	
2	4925. 7000	59. 25	3. 08	62. 33	74. 00	-11. 67	Peak	

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



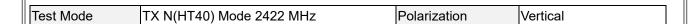


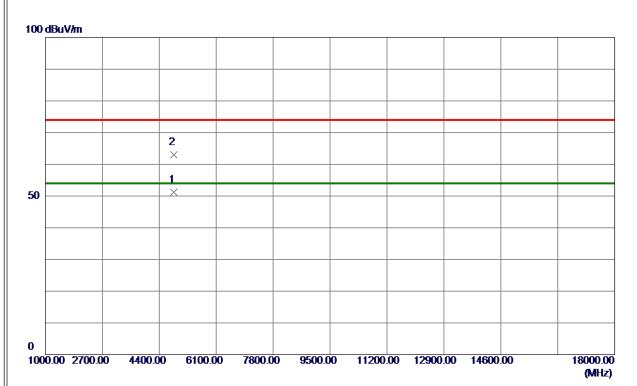


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	57. 76	7. 70	65. 46	74.00	-8. 54	Peak	
2	2390. 0000	41. 90	7. 70	49. 60	54.00	-4.40	AVG	
3	2418. 9000	88. 12	7. 73	95. 85	74.00	21.85	Peak	No Limit
4 *	2420. 2000	80. 22	7. 73	87. 95	54. 00	33. 95	AVG	No Limit

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





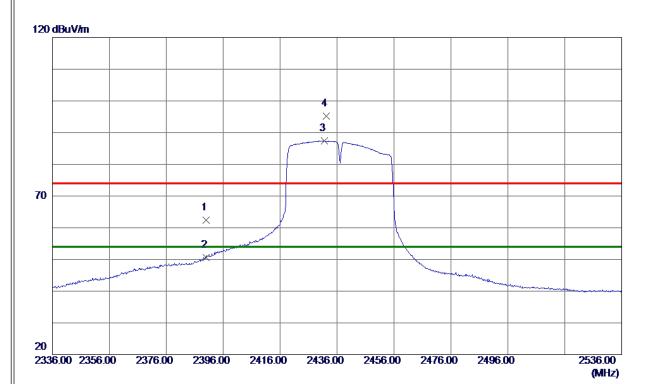


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4843. 8000	48. 36	2. 89	51. 25	54.00	-2. 75	AVG	
2	4843, 6000	60. 17	2. 89	63. 06	74.00	-10. 94	Peak	

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



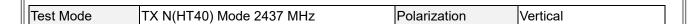


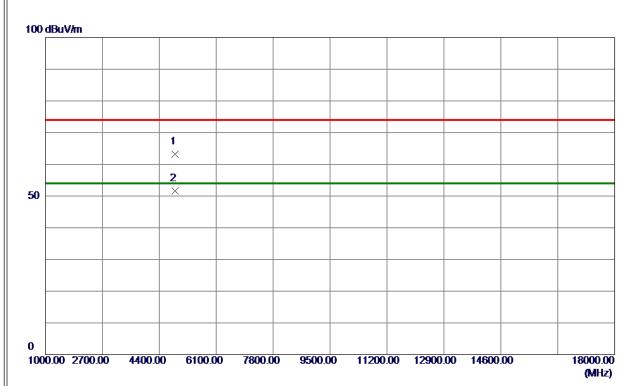


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	54. 75	7. 70	62. 45	74.00	-11. 55	Peak	
2	2390. 0000	42.87	7. 70	50. 57	54.00	-3. 43	AVG	
3 *	2431. 6000	79. 66	7. 75	87. 41	54.00	33. 41	AVG	No Limit
4	2432. 2000	87. 53	7. 75	95. 28	74. 00	21. 28	Peak	No Limit

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





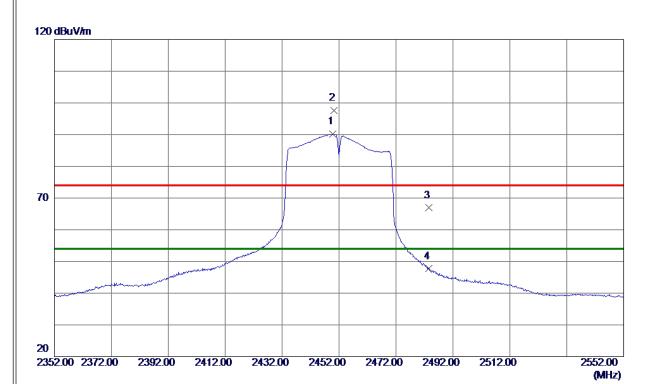


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4865. 0000	60. 28	2. 94	63. 22	74.00	-10. 78	Peak	
2 *	4868. 0500	48. 67	2. 94	51. 61	54. 00	-2. 39	AVG	

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





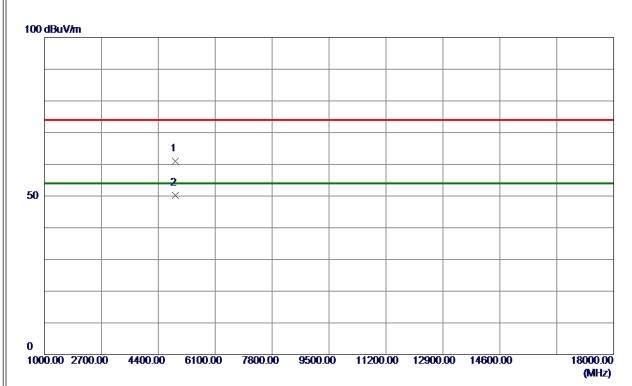


	No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1 *	2449. 8000	82. 38	7. 77	90. 15	54.00	36. 15	AVG	No Limit
	2	2450. 3000	89. 81	7. 77	97. 58	74.00	23. 58	Peak	No Limit
	3	2483. 5000	59. 09	7. 81	66. 90	74.00	-7. 10	Peak	
	4	2483. 5000	39. 89	7. 81	47. 70	54.00	-6. 30	AVG	
١.	4	4 4 03. 3000	33. 03	1.01	41.10	J4. UU	0. 50	AVU	

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



Test Mode	TX N(HT40) Mode 2452 MHz	lPolarization	Vertical

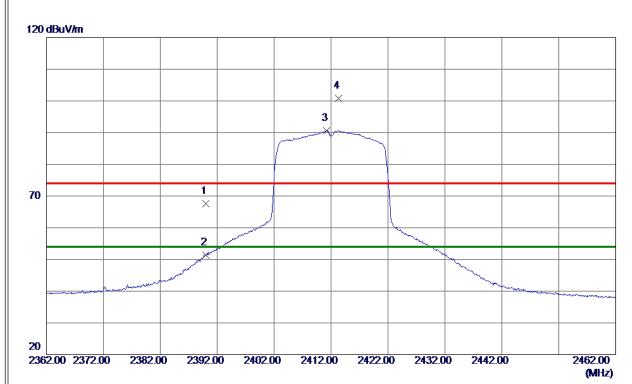


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4902. 6500	58. 03	3. 02	61. 05	74. 00	-12. 95	Peak	
2 *	4904, 0000	47. 25	3. 03	50. 28	54. 00	-3, 72	AVG	

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



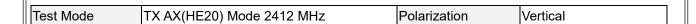


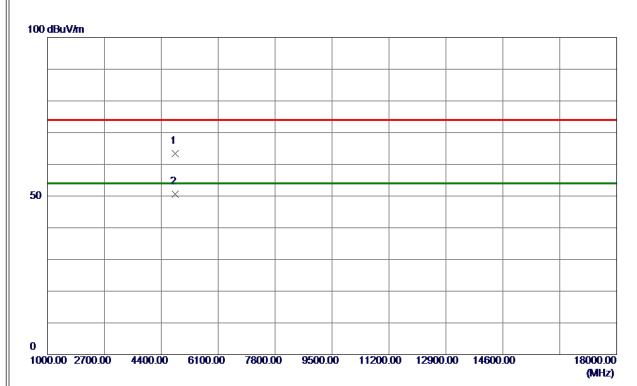


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	59. 84	7. 70	67. 54	74.00	-6. 46	Peak	
2	2390. 0000	43. 69	7. 70	51. 39	54.00	-2. 61	AVG	
3 *	2411. 2000	82. 91	7. 72	90. 63	54.00	36. 63	AVG	No Limit
4	2413. 3500	93. 16	7. 73	100.89	74. 00	26. 89	Peak	No Limit

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





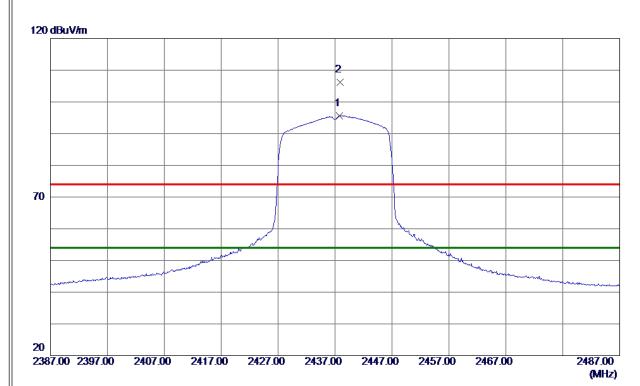


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4822. 7000	60. 59	2. 84	63. 43	74.00	-10. 57	Peak	
2 *	4823. 1500	47. 74	2. 84	50. 58	54. 00	-3. 42	AVG	

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



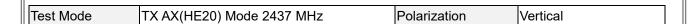


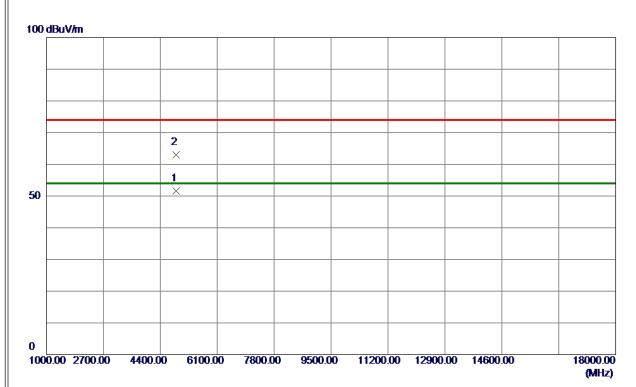


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2437. 8000	87. 85	7. 76	95. 61	54.00	41.61	AVG	No Limit
2	2437. 9000	98. 44	7. 76	106. 20	74.00	32. 20	Peak	No Limit

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





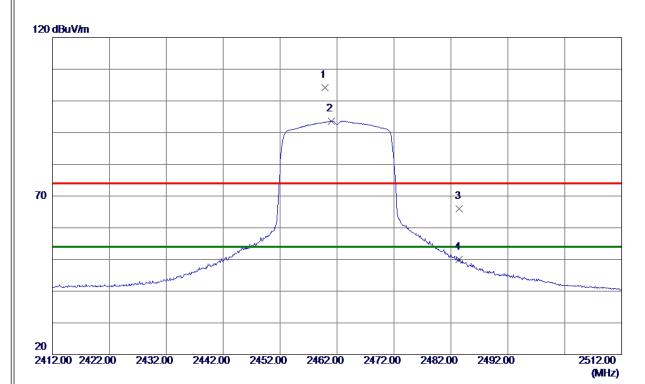


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873. 6000	48. 55	2. 96	51. 51	54.00	-2. 49	AVG	
2	4874, 7000	60. 09	2. 96	63. 05	74.00	-10. 95	Peak	

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





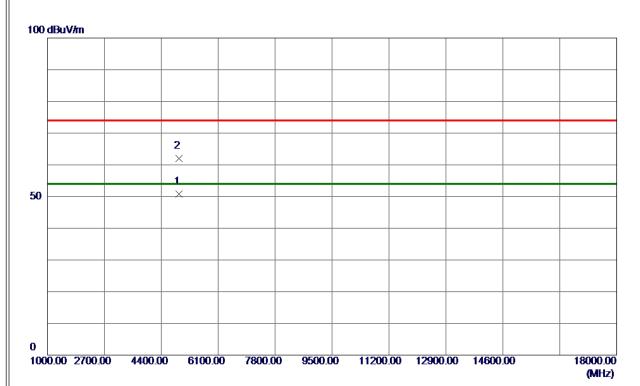


Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
2459. 9000	96. 52	7. 78	104. 30	74.00	30. 30	Peak	No Limit
2461.0000	85. 84	7. 78	93. 62	54.00	39. 62	AVG	No Limit
2483. 5000	58. 15	7. 81	65. 96	74.00	-8.04	Peak	
2483. 5000	42. 18	7. 81	49. 99	54.00	-4.01	AVG	
	MHz 2459. 9000 2461. 0000 2483. 5000	- reset	MHz dBuV/m dB 2459.9000 96.52 7.78 2461.0000 85.84 7.78 2483.5000 58.15 7.81	MHz dBuV/m dB dBuV/m 2459.9000 96.52 7.78 104.30 2461.0000 85.84 7.78 93.62 2483.5000 58.15 7.81 65.96	MHz dBuV/m dB dBuV/m dBuV/m 2459. 9000 96. 52 7. 78 104. 30 74. 00 2461. 0000 85. 84 7. 78 93. 62 54. 00 2483. 5000 58. 15 7. 81 65. 96 74. 00	MHz dBuV/m dB dBuV/m dB dBuV/m dB dBuV/m dB dBuV/m dB dB	MHz dBuV/m dB dBuV/m dBuV/m dB Detector 2459.9000 96.52 7.78 104.30 74.00 30.30 Peak 2461.0000 85.84 7.78 93.62 54.00 39.62 AVG 2483.5000 58.15 7.81 65.96 74.00 -8.04 Peak

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





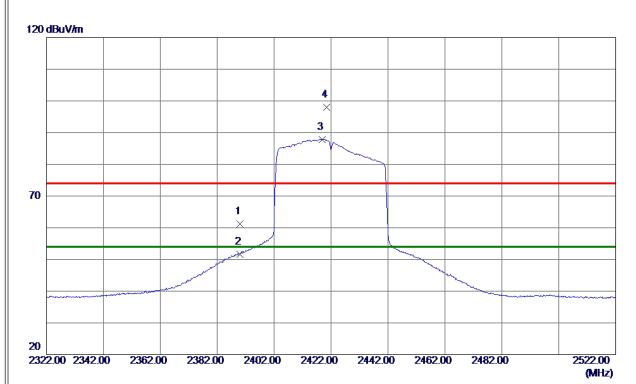


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924. 1000	47. 68	3. 07	50. 75	54.00	-3. 25	AVG	
2	4924. 4500	58. 91	3. 07	61. 98	74.00	-12. 02	Peak	

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



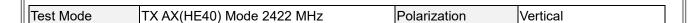


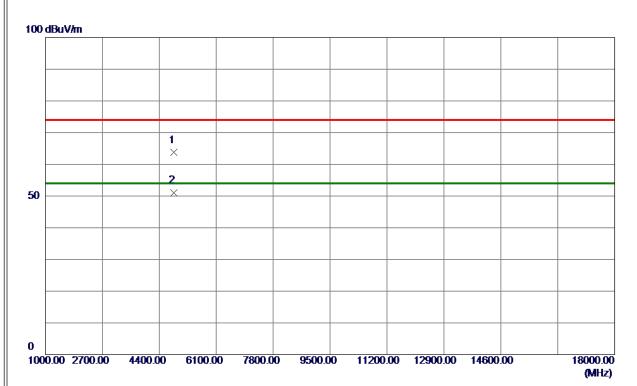


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	53. 59	7. 70	61. 29	74.00	-12.71	Peak	
2	2390. 0000	43. 98	7. 70	51. 68	54.00	-2. 32	AVG	
3 *	2418. 9000	80. 15	7. 73	87. 88	54.00	33. 88	AVG	No Limit
4	2420. 5000	90. 25	7. 73	97. 98	74. 00	23. 98	Peak	No Limit

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



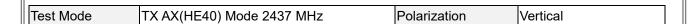


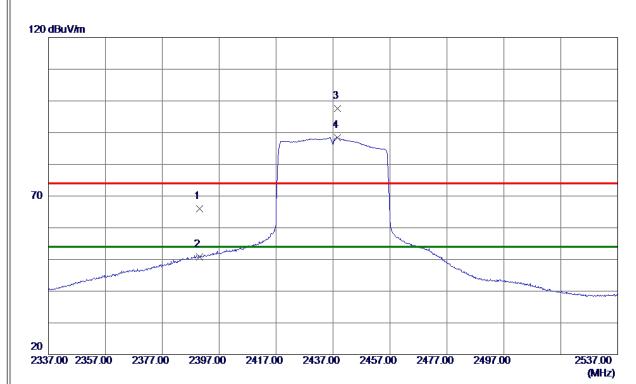


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4828. 3500	60. 85	2. 85	63. 70	74. 00	-10. 30	Peak	
2 *	4840, 0000	48. 05	2. 88	50. 93	54. 00	-3. 07	AVG	

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



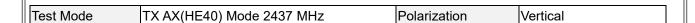


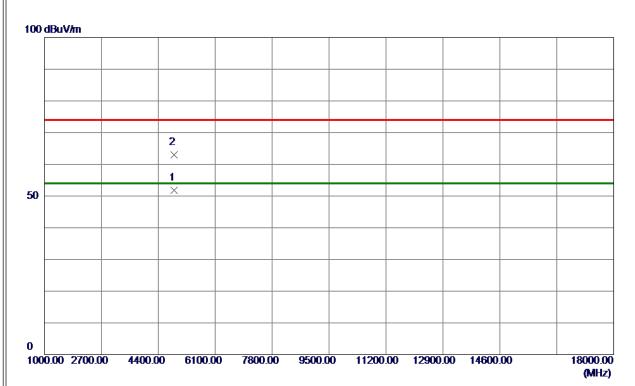


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	58. 35	7. 70	66. 05	74.00	-7. 95	Peak	
2	2390. 0000	43. 18	7. 70	50. 88	54.00	-3. 12	AVG	
3	2438. 6000	89. 88	7. 76	97. 64	74.00	23.64	Peak	No Limit
4 *	2438. 6000	80. 72	7. 76	88. 48	54. 00	34. 48	AVG	No Limit

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



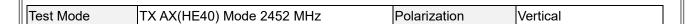


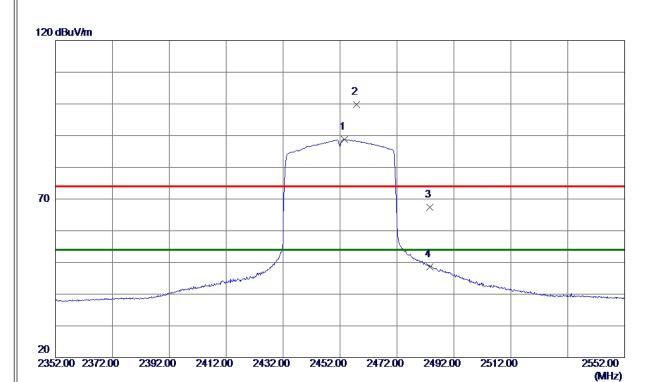


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4870. 5000	48. 83	2. 95	51. 78	54.00	-2. 22	AVG	
2	4875, 4500	60. 08	2. 96	63. 04	74.00	-10. 96	Peak	

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



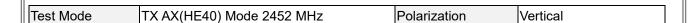


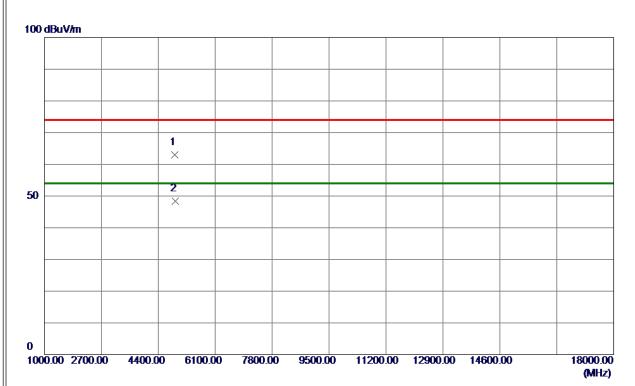


N	0.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2453. 5000	81. 02	7. 77	88. 79	54.00	34. 79	AVG	No Limit
2		2457. 7000	92. 02	7. 78	99. 80	74.00	25. 80	Peak	No Limit
3		2483. 5000	59. 59	7. 81	67. 40	74.00	-6. 60	Peak	
4		2483. 5000	40. 72	7. 81	48. 53	54.00	-5. 47	AVG	
1									

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



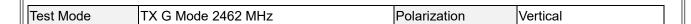


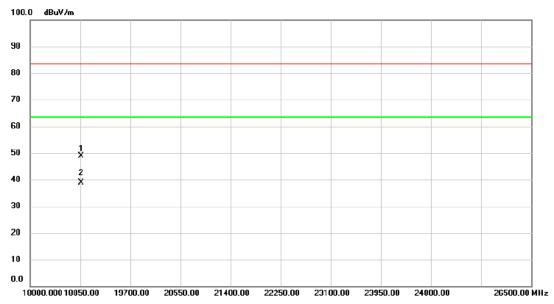


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4888. 4000	60. 03	2. 99	63. 02	74.00	-10. 98	Peak	
2 *	4906, 6500	45. 30	3. 03	48. 33	54. 00	-5. 67	AVG	

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



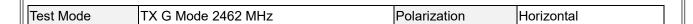


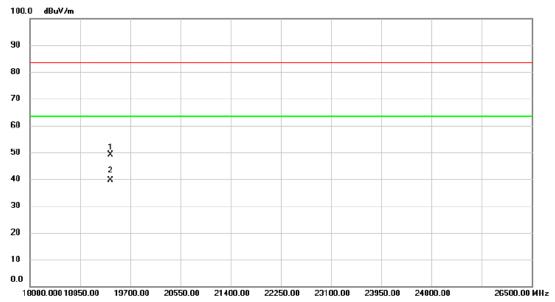


No.	M	k. Freq.			Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		18871.25	54.41	-5.59	48.82	83.50	-34.68	peak	
2	*	18871.25	44.39	-5.59	38.80	63.50	-24.70	AVG	

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







No.	Mk	c. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		19368.50	54.68	-5.62	49.06	83.50	-34.44	peak	
2	*	19368.50	45.28	-5.62	39.66	63.50	-23.84	AVG	

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

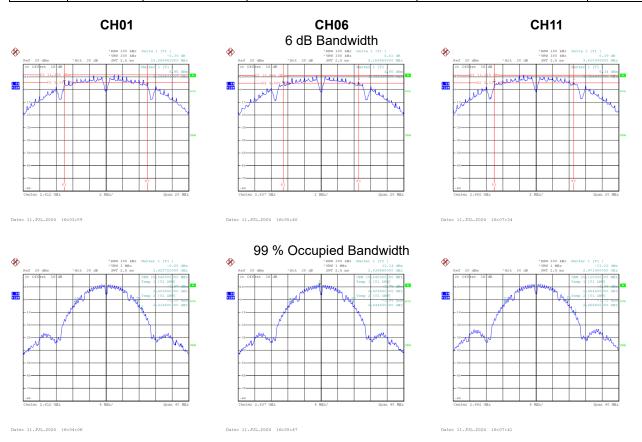


APPENDIX E - BANDWIDTH	



Test Mode	TX B Mode
100t Wood	I A D IVIOGO

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	10.060	15.040	0.5	Complies
06	2437	9.160	15.040	0.5	Complies
11	2462	9.630	15.120	0.5	Complies





	Test Mode	TX G Mode
ı	100t Wiodo	I / C IVICAC

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.340	17.440	0.5	Complies
06	2437	16.100	17.360	0.5	Complies
11	2462	15.350	17.440	0.5	Complies

