

FCC Radio Test Report

FCC ID: ZMOSU806LA

This report concerns: Original Grant

Project No. : 2205C056
Equipment : LTE Module
Brand Name : Fibocom
Test Model : SU806-LA

Series Model : N/A

Applicant: Fibocom Wireless Inc.

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Dashi 1st Rd, Nanshan, Shenzhen, China

Manufacturer: Fibocom Wireless Inc.

Address : 1101, Tower A, Building 6, Shenzhen International Innovation Valley,

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Date of Receipt : May 16, 2022

Date of Test : May 18, 2022 ~ Jun. 15, 2022

Issued Date : Jun. 15, 2022

Report Version : R01

Test Sample : Engineering Sample No.: DG20220516109 **Standard(s)** : FCC CFR Title 47, Part 15, Subpart C

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2013

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

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ilac-MRA



TESTING CERCI #5125.0

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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).

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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

determining the Pass/Fail results.

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



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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-6-2205C056	R00	Original Report.	Jun. 13, 2022	Invalid
BTL-FCCP-6-2205C056	R01	 Updated AC Power Line Conducted Emissions and Radiated Emissions (9 kHz to 30 MHz) test items. The TX G Mode Channel 01 of Conducted Spurious Emissions has been updated. 	Jun. 15, 2022	Valid



1. 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.



1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.

BTL's Registration Number for FCC: 357015 BTL's Designation Number for FCC: CN1240

1.2 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% 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	2.60

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	30MHz ~ 200MHz	V	4.36	
	CICDD	30MHz ~ 200MHz	Н	3.32
(3m)	CISPR	200MHz ~ 1,000MHz	V	4.08
		200MHz ~ 1,000MHz	Н	3.96

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03	CISPR	1GHz ~ 6GHz	3.80
(3m)	CIOPK	6GHz ~ 18GHz	4.82

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03	CISPR	18 ~ 26.5 GHz	3.62
(1m)	CISPR	26.5 ~ 40 GHz	4.00



C. Other Measurement:

Test Item	Uncertainty
Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Conducted Spurious Emission	±2.71 dB
Power Spectral Density	±0.86 dB
Temperature	±0.08 °C
Humidity	±1.5%

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	56%	DC 3.8V	Rod Tang
Radiated Emissions-9kHz to 30 MHz	24°C	60%	DC 3.8V	Rod Tang
Radiated Emissions-30MHz to 1000MHz	26°C	52%	DC 3.8V	Berton Luo
Radiated Emissions-Above 1000MHz	22°C	50%	DC 3.8V	Berton Luo
Bandwidth	25°C	60%	DC 3.8V	Silly Zheng
Maximum Output Power	24.3°C	68.7%	DC 3.8V	Complex Qin
Conducted Spurious Emissions	25°C	60%	DC 3.8V	Silly Zheng
Power Spectral Density	25°C	60%	DC 3.8V	Silly Zheng



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	LTE Module
Brand Name	Fibocom
Test Model	SU806-LA
Series Model	N/A
Model Difference(s)	N/A
Software Version	SU806-LA-Q3E. 01. 101
Hardware Version	V1.0
Power Source	DC voltage supplied from external power supply.
Power Rating	Supply voltage: 3.5~4.2V, Typical supply voltage: 3.8V
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 802.11b: 16.81 dBm (0.0480 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	Channel Frequency (MHz) Channel Frequency (MHz) Channel Frequency (MHz) 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	P/N	Antenna Type	Connector	Gain (dBi)
1	shenzhen bogesi communication technology co., Itd	GHT-019A	Dipole	SMA Male J	2.3

Note:

The antenna gain is provided by the manufacturer.



2.2 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 B 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 B Mode Channel 06			

Radiated emissions test - Below 1GHz			
Final Test Mode	Description		
Mode 4	TX B 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 B 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.



2.3 PARAMETERS OF TEST SOFTWARE

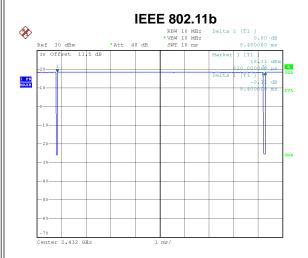
Test Software Version	Pandora_R22.20.4001		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	18	18	18
IEEE 802.11g	18	18	14
IEEE 802.11n(HT20)	18	18	18





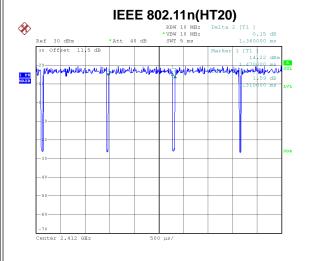
2.4 DUTY CYCLE

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: 28.MAY.2022 12:15:44

Duty cycle = 8.400 ms / 8.480 ms = 99.06% Duty Factor = 10 log(1/Duty cycle) = 0.00



Date: 28.MAY.2022 12:17:27

Duty cycle = 1.310 ms / 1.360 ms = 96.32% Duty Factor = 10 log(1/Duty cycle) = 0.16

NOTE:

For IEEE 802.11b:

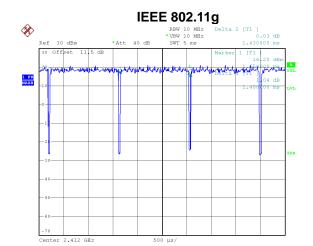
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz.

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 714 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 763 Hz.

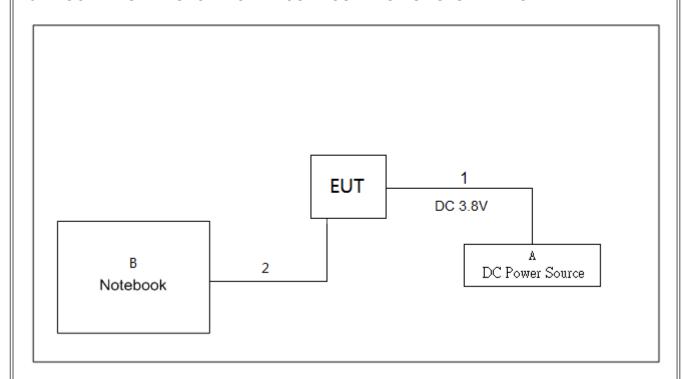


Date: 28.MAY.2022 12:16:48

Duty cycle = 1.400 ms / 1.430 ms = 97.90% Duty Factor = 10 log(1/Duty cycle) = 0.09



2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
Α	DC Power Source	TRUE-POWER	GPC30300N	NA
В	Notebook	Lenovo	V310-14ISK	LR07GZNB

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1m
2	USB Cable	NO	NO	0.8m



3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Fraguency of Emission (MHz)	Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average	
0.15 - 0.5	66 to 56*	56 to 46*	
0.5 - 5.0	56	46	
5.0 - 30.0	60	50	

NOTE

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

3.2 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:

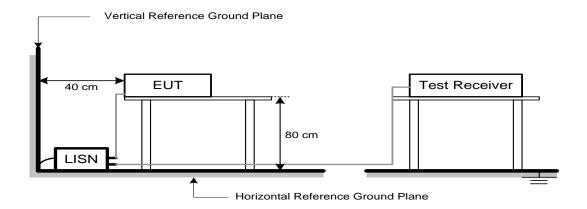
Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.3 DEVIATION FROM TEST STANDARD

No deviation.



3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.



4. RADIATED EMISSIONS

4.1 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)	(dBuV/n	n at 3 m)
Frequency (Miriz)	Peak	Average
Above 1000	74	54

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).



4.2 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 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 1 GHz)
- 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

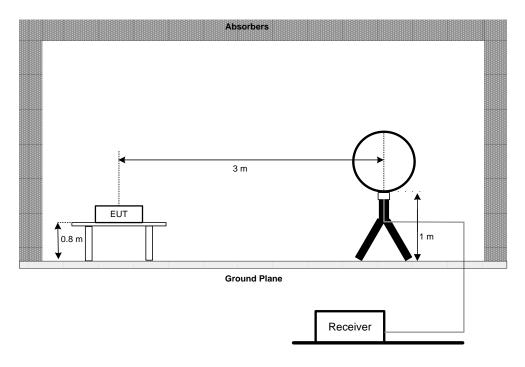


4.3 DEVIATION FROM TEST STANDARD

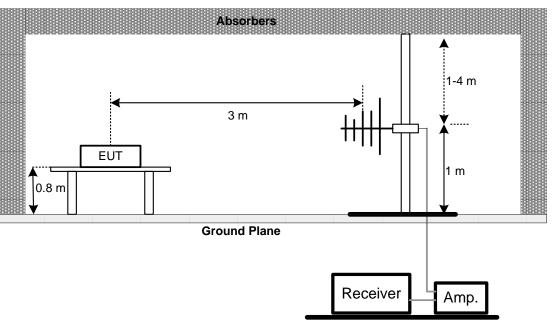
No deviation.

4.4 TEST SETUP

9 kHz to 30 MHz

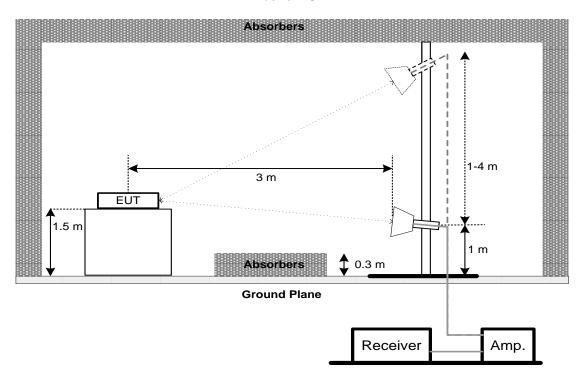


30 MHz to 1 GHz





Above 1 GHz



4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 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.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 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.



5. BANDWIDTH

5.1 LIMIT

Section	Test Item	Limit
ECC 15 247(a)(2)	6 dB Bandwidth	Minimum 500 kHz
FCC 15.247(a)(2)	99% Emission Bandwidth	-

5.2 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:

or o ab barramann		
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	

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.



6. MAXIMUM OUTPUT POWER

6.1 LIMIT

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

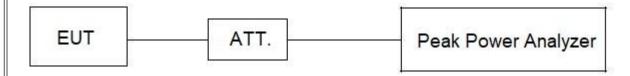
6.2 TEST PROCEDURE

- 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.

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 F.



7. CONDUCTED SPURIOUS EMISSIONS

7.1 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.

7.2 TEST PROCEDURE

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

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

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.



8. POWER SPECTRAL DENSITY

8.1 LIMIT

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

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		
Span Frequency 25 MHz (20 MHz) / 60 MHz (40 MHz)			
RBW	3 kHz		
VBW	10 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 H.



9. 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	Jan. 22, 2023			
2	LISN	EMCO	3816/2	52765	Jan. 23, 2023			
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Jan. 23, 2023			
4	50Ω Terminator	SHX	TF5-3	15041305	N/A			
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A			
6	Cable	N/A	RG223	12m	Mar. 08, 2023			
7	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	MXE EMI Receiver	Keysight	N9038A	MY56400091	Jan. 22, 2023			
2*	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 23, 2024			
3	Cable	N/A	RG 213/U(9kHz~1GHz)	N/A	Jul. 09, 2022			
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A			
5	966 Chamber Room	ETS	9*6*6	N/A	Jul. 17, 2022			

	Radiated Emissions - 30 MHz to 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 03, 2023		
2	Amplifier	HP	8447D	2944A08742	Jan. 22, 2023		
3	Cable	emci	LMR-400	N/A	Nov. 30, 2022		
4	Controller	CT	SC100	N/A	N/A		
5	Controller	MF	MF-7802	MF780208416	N/A		
6	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023		
7	Measurement Farad EZ-EMC Ver.NB-03A1-01		N/A	N/A			
8	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022		

	Radiated Emissions - Above 1 GHz							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Double Ridged Horn Antenna	ARA	DRG-118A	16554	Apr. 18, 2023			
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022			
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022			
4	Controller	CT	SC100	N/A	N/A			
5	Controller	MF	MF-7802	MF780208416	N/A			
6	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023			
7	EXA Spectrum Analyzer	Keysight	N9010A	MY56480488	Jan. 22, 2023			
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330 -K	619413	Jul. 16, 2022			
9	Cable	Talent microwave	A81-SMAMSMAM- 12.5M	N/A	Oct. 15, 2022			
10	Cable	Talent microwave	A40-2.92M2.92M-2. 5M	N/A	Nov. 30, 2022			
11	Filter	STI	STI15-9912	N/A	Jul. 10, 2022			
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A			
13	966 Chamber Room	RM 9*6*6 N/A J		Jul. 24, 2022				



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	Jul. 10, 2022		
2	Attenuator	WOKEN	6SM3502	VAS1214NL	N/A		
3	RF Cable	Tongkaichuan	N/A	N/A	N/A		
4	DC Block	Mini	N/A	N/A	N/A		

	Maximum Output Power							
Item	n Kind of Equipment Manufacturer Type No. Serial No. Calibrated un							
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jul. 10, 2022			
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jul. 10, 2022			
3	Attenuator	WOKEN	6SM3502	VAS1214NL	N/A			
4	RF Cable	Tongkaichuan	N/A	N/A	N/A			

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

Except * item, all calibration period of equipment list is one year.

[&]quot;*" calibration period of equipment list is three year.



10. EUT TEST PHOTO

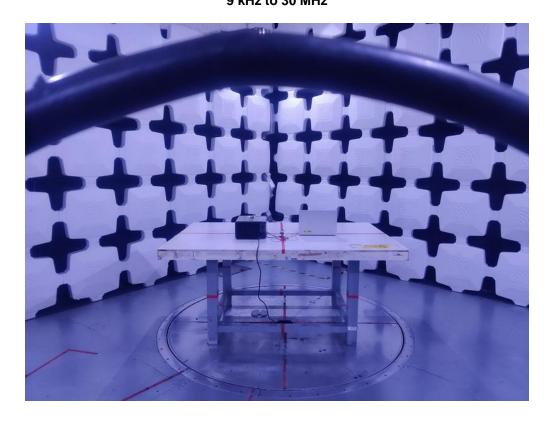


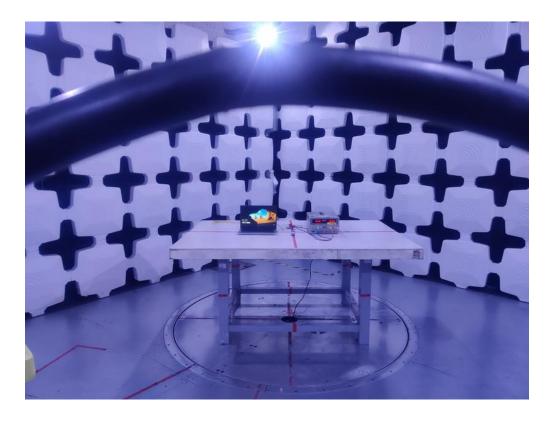






Radiated Emissions Test Photos 9 kHz to 30 MHz



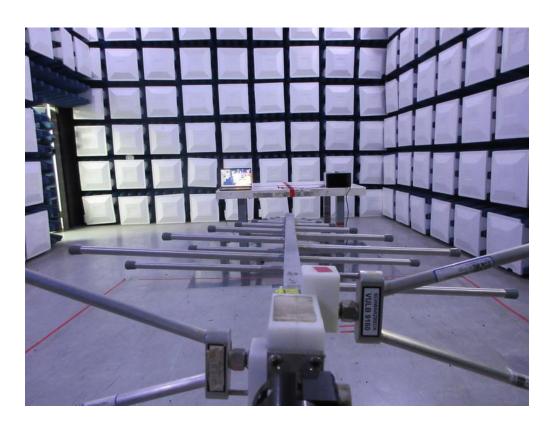




Radiated Emissions Test Photos

30 MHz to 1 GHz

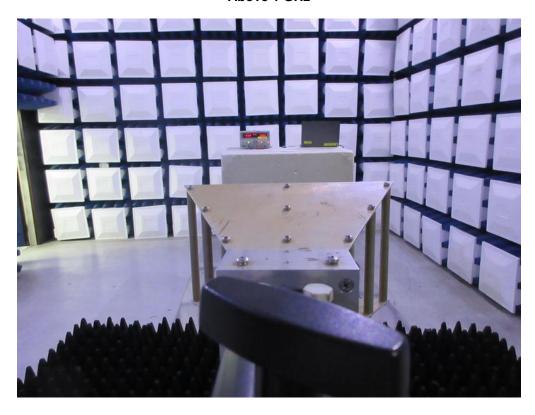


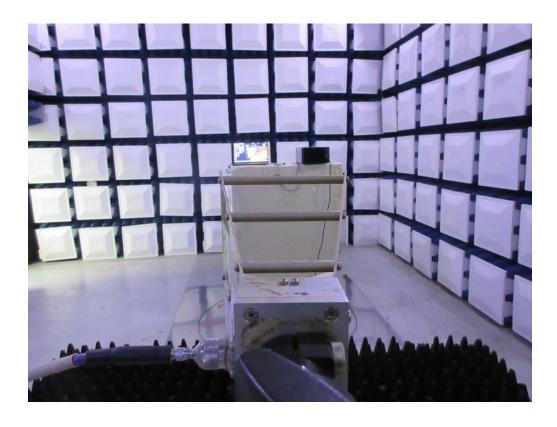




Radiated Emissions Test Photos

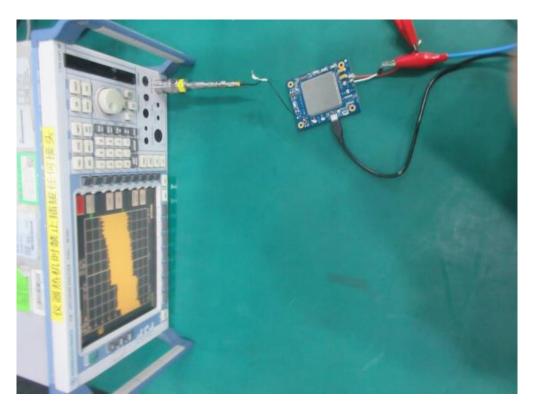
Above 1 GHz

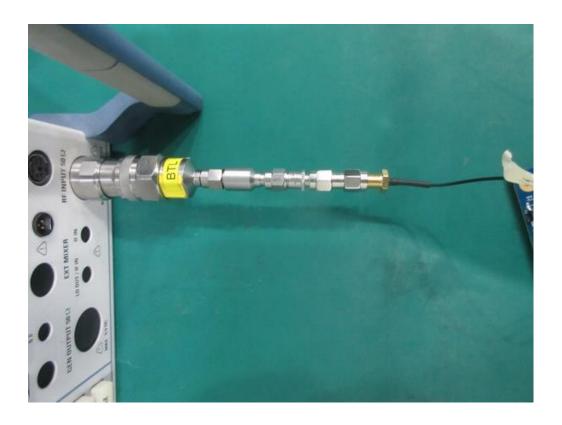






Conducted Test Photos

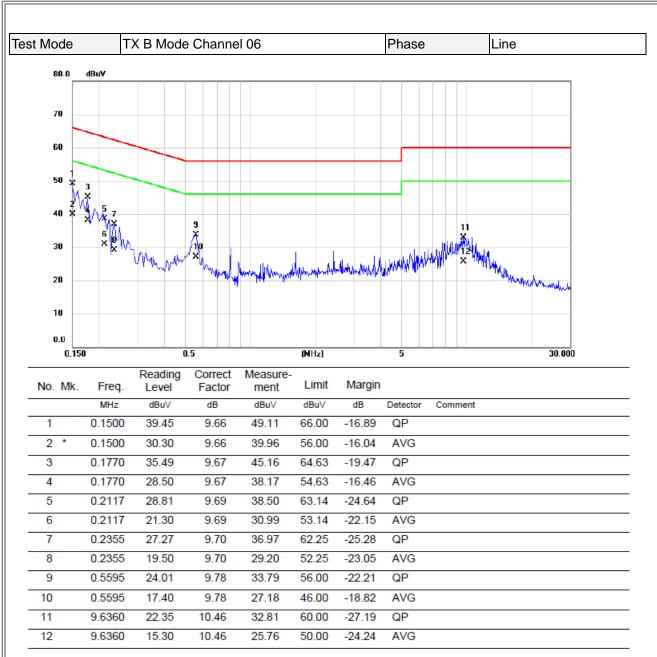






APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

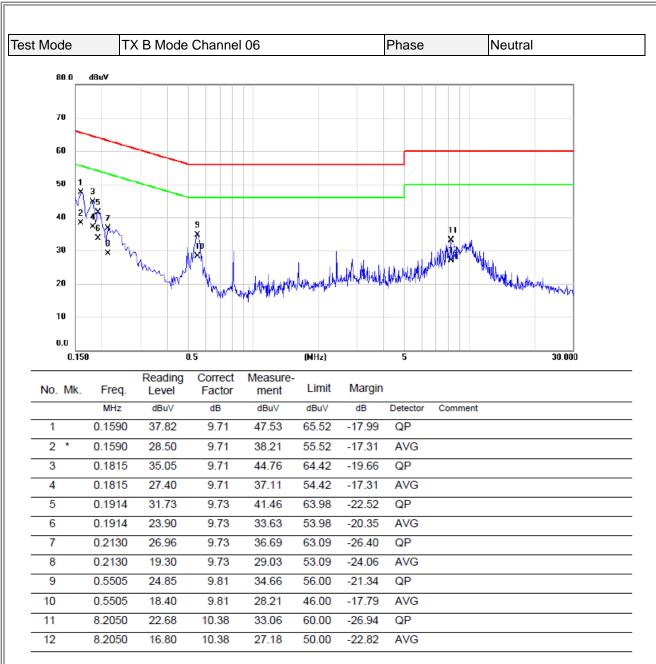




REMARKS:

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





REMARKS:

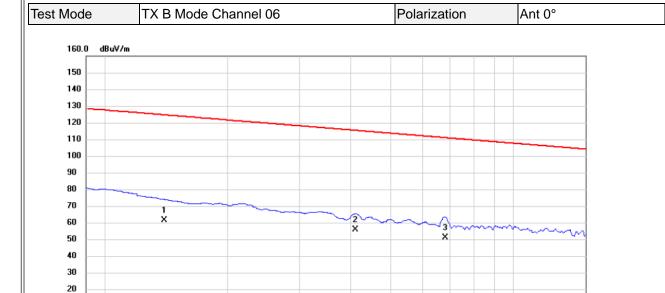
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

0.150





No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0140	45.38	16.18	61.56	124.68	-63.12	AVG	
2 *	0.0410	42.15	13.81	55.96	115.35	-59.39	AVG	
3	0.0680	37.56	13.61	51.17	110.95	-59.78	AVG	

(MHz)

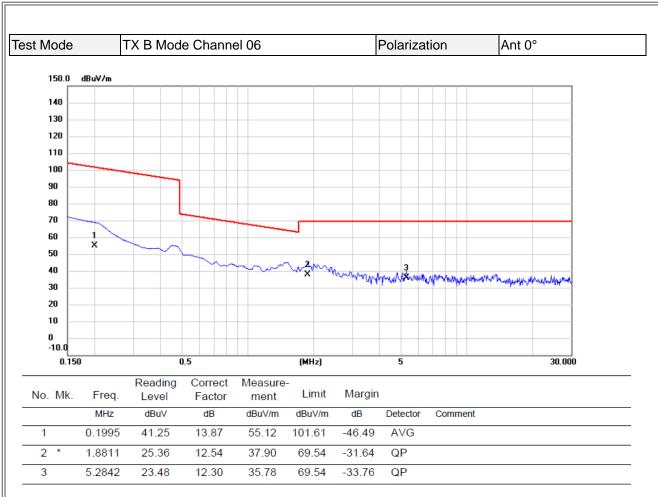
REMARKS:

0.0

0.009

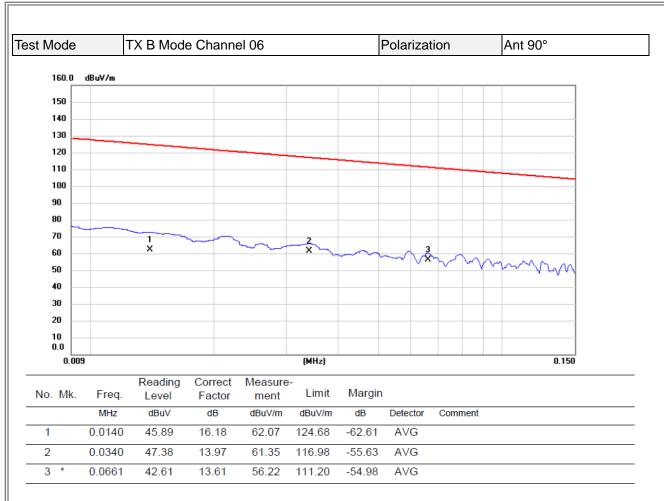
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.





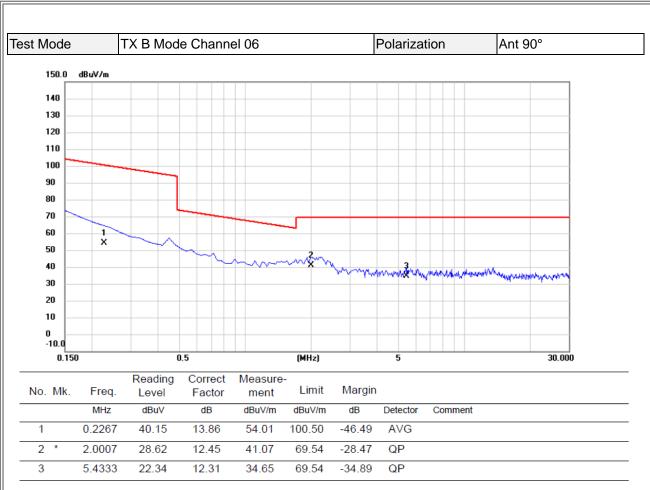
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





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



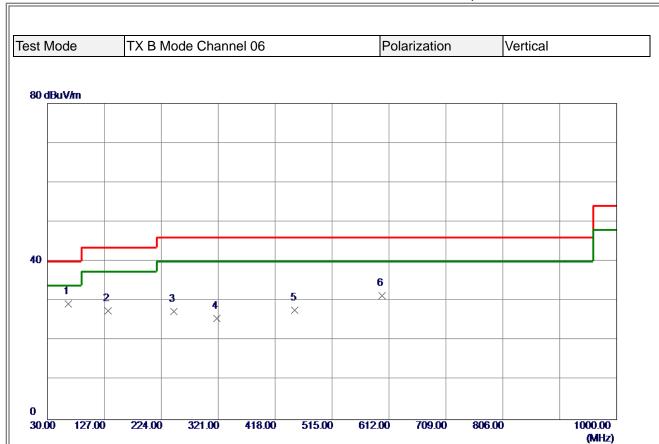


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

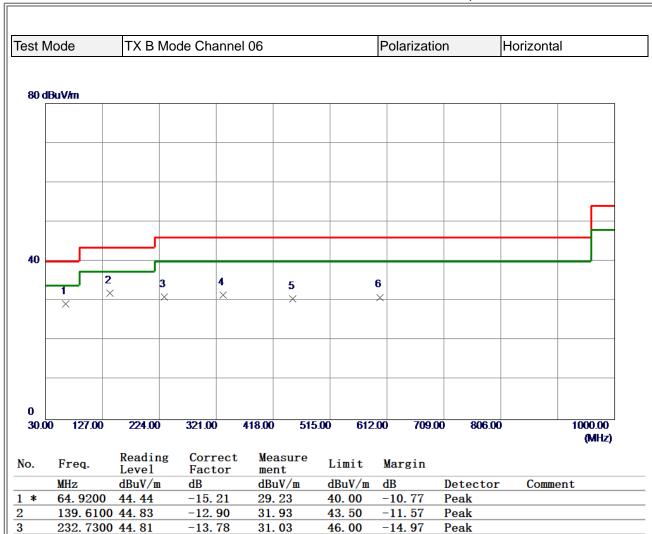




MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 1 * 65.8900 44.66 -15.39 29.27 40.00 -10.73 Peak 2 133.7899 40.69 -13.20 27.49 43.50 -16.01 Peak 3 245.3400 40.46 -13.14 27.32 46.00 -18.68 Peak 4 319.0600 36.13 -10.54 25.59 46.00 -20.41 Peak 5 451.9500 35.01 -7.37 27.64 46.00 -18.36 Peak	No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
2 133.7899 40.69 -13.20 27.49 43.50 -16.01 Peak 3 245.3400 40.46 -13.14 27.32 46.00 -18.68 Peak 4 319.0600 36.13 -10.54 25.59 46.00 -20.41 Peak 5 451.9500 35.01 -7.37 27.64 46.00 -18.36 Peak		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
3 245. 3400 40. 46 -13. 14 27. 32 46. 00 -18. 68 Peak 4 319. 0600 36. 13 -10. 54 25. 59 46. 00 -20. 41 Peak 5 451. 9500 35. 01 -7. 37 27. 64 46. 00 -18. 36 Peak	1 *	65. 8900	44. 66	-15. 39	29. 27	40.00	-10. 73	Peak		
4 319.0600 36.13 -10.54 25.59 46.00 -20.41 Peak 5 451.9500 35.01 -7.37 27.64 46.00 -18.36 Peak	2	133. 7899	40. 69	-13. 20	27. 49	43. 50	-16. 01	Peak		
5 451. 9500 35. 01 -7. 37 27. 64 46. 00 -18. 36 Peak	3	245. 3400	40. 46	-13. 14	27. 32	46.00	-18. 68	Peak		
	4	319.0600	36. 13	-10. 54	25. 59	46.00	-20. 41	Peak		
0 000 0000 05 00 4 54 01 00 40 00 14 01 D 1	5	451. 9500	35. 01	-7. 37	27. 64	46.00	-18. 36	Peak		
6 600. 3600 35. 93 -4. 54 31. 39 46. 00 -14. 61 Peak	6	600. 3600	35. 93	-4. 54	31. 39	46.00	-14. 61	Peak		

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





4

5

6

332.6400 41.78

451. 9500 37. 92

600. 3600 35. 50

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

-10.29

-7. 37

-4. 54

31.49

30.55

30.96

46.00

46.00

46.00

-14. 51

-15. 45

-15. 04

Peak

Peak

Peak

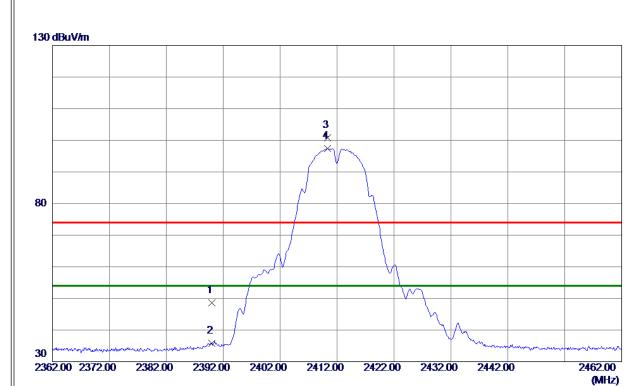
(2) Margin Level = Measurement Value - Limit Value.



APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ



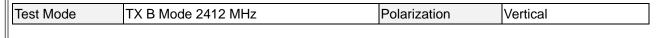


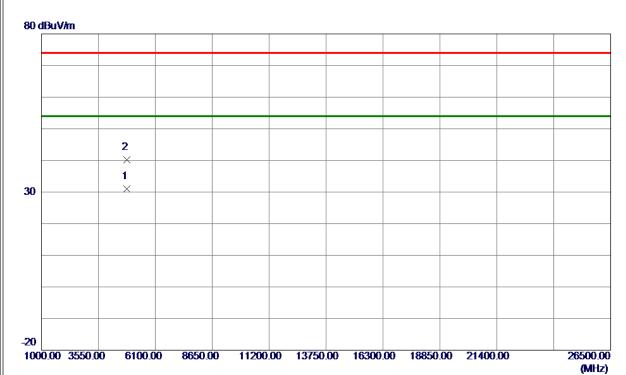


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	43. 22	5. 37	48. 59	74.00	-25. 41	Peak	
2	2390. 0000	30. 39	5. 37	35. 76	54.00	-18. 24	AVG	
3	2410. 3000	95. 39	5. 42	100.81	74.00	26.81	Peak	No Limit
4 *	2410. 3000	91. 92	5. 42	97. 34	54.00	43. 34	AVG	No Limit

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





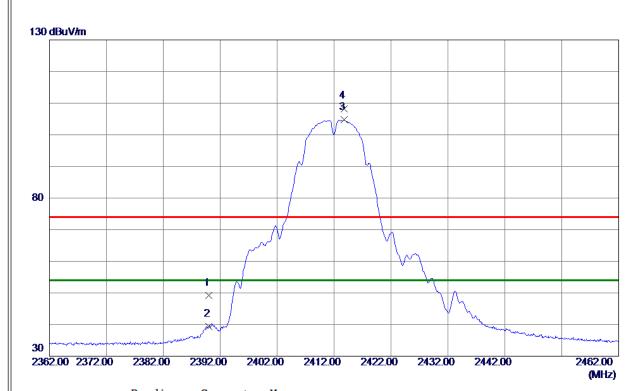


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823. 9300	28. 82	2. 20	31. 02	54.00	-22. 98	AVG	
2	4824, 3500	38. 02	2. 20	40. 22	74.00	-33, 78	Peak	

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



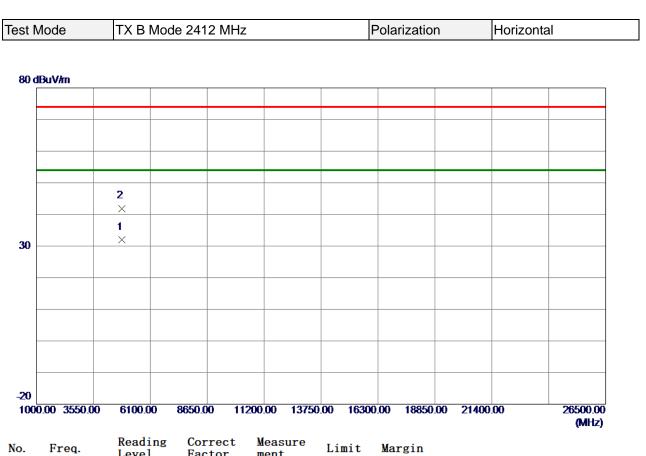




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	43. 76	5. 37	49. 13	74.00	-24. 87	Peak	
2	2390. 0000	34. 04	5. 37	39. 41	54.00	-14. 59	AVG	
3 *	2413. 7500	99. 28	5. 43	104. 71	54.00	50. 71	AVG	No Limit
4	2413. 8000	102.87	5. 43	108. 30	74.00	34. 30	Peak	No Limit

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



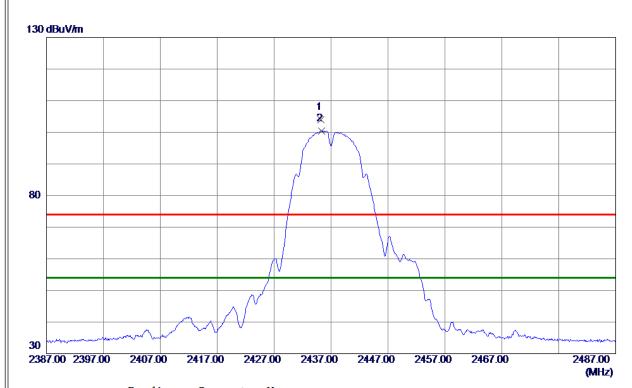


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823. 9400	29. 89	2. 20	32. 09	54.00	-21. 91	AVG	
2	4824, 1900	39. 70	2, 20	41, 90	74. 00	-32, 10	Peak	

- (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	2435. 2500	98. 59	5. 48	104. 07	74.00	30. 07	Peak	No Limit
2 *	2435. 3000	94. 98	5. 48	100. 46	54.00	46. 46	AVG	No Limit

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

26500.00

(MHz)





No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4869. 2599	38. 93	2. 34	41. 27	74.00	-32. 73	Peak	
2 *	4871, 8600	27. 47	2, 34	29, 81	54, 00	-24, 19	AVG	

11200.00 13750.00 16300.00 18850.00 21400.00

REMARKS:

-20

1000.00 3550.00

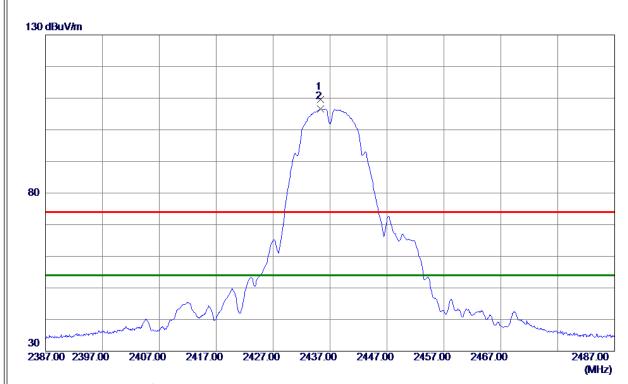
6100.00

8650.00

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



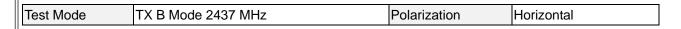


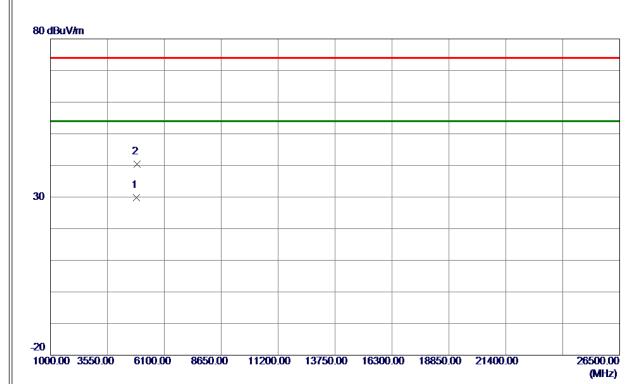


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2435. 3000	104. 20	5. 48	109. 68	74.00	35. 68	Peak	No Limit
2 *	2435, 3000	101. 05	5. 48	106, 53	54. 00	52, 53	AVG	No Limit

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





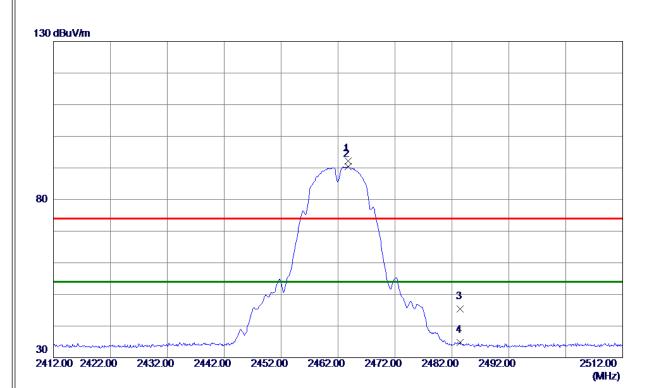


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4867. 4400	27. 54	2. 33	29.87	54.00	-24. 13	AVG	
2	4875. 8300	38. 14	2. 35	40. 49	74.00	-33. 51	Peak	

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



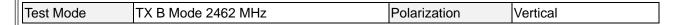


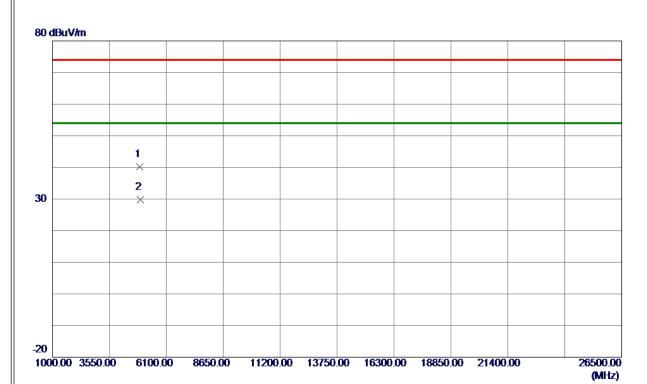


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2463. 7500	86. 58	5. 55	92. 13	74.00	18. 13	Peak	No Limit
2 *	2463. 8000	84. 88	5. 55	90. 43	54.00	36. 43	AVG	No Limit
3	2483. 5000	39. 84	5. 60	45. 44	74.00	-28. 56	Peak	
4	2483. 5000	29. 22	5. 60	34. 82	54.00	-19. 18	AVG	

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





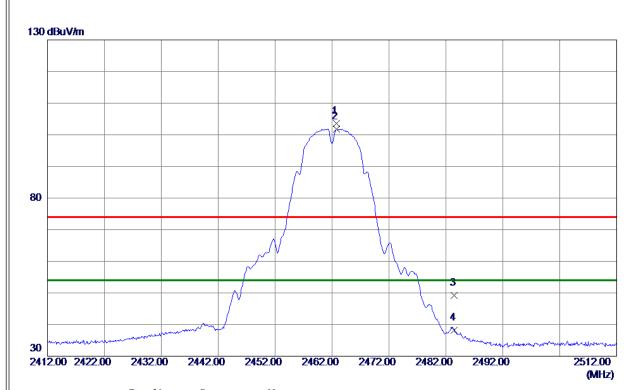


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923. 2400	37. 68	2. 50	40. 18	74.00	-33.82	Peak	
2 *	4932. 8400	27. 32	2. 53	29. 85	54. 00	-24. 15	AVG	

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





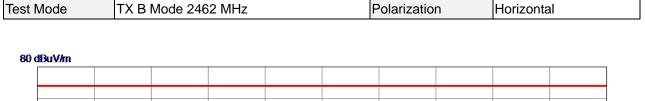


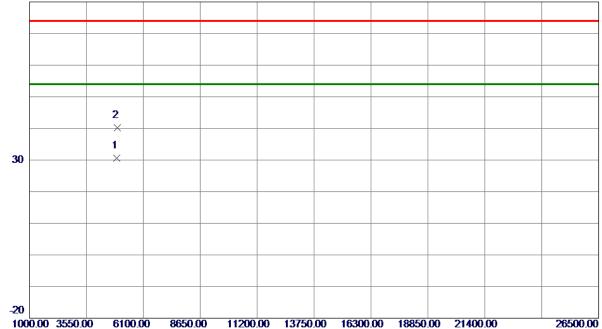
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2462. 8000	98. 10	5. 55	103. 65	74.00	29.65	Peak	No Limit
2 *	2462. 8000	96. 25	5. 55	101.80	54.00	47. 80	AVG	No Limit
3	2483. 5000	43. 57	5. 60	49. 17	74.00	-24. 83	Peak	
4	2483. 5000	32. 65	5. 60	38. 25	54. 00	-15. 75	AVG	

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

(MHz)





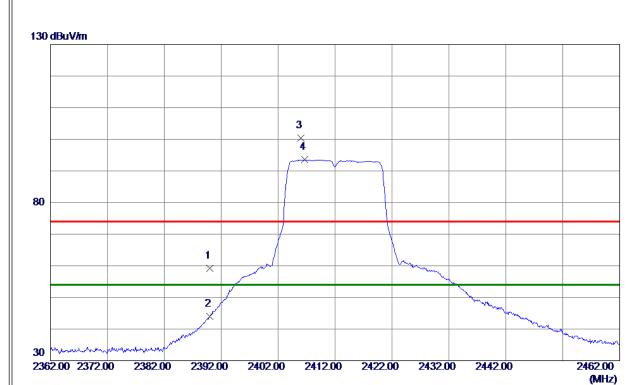


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923. 9900	28. 09	2. 50	30. 59	54.00	-23. 41	AVG	
2	4930. 7900	37. 62	2. 52	40. 14	74.00	-33. 86	Peak	

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



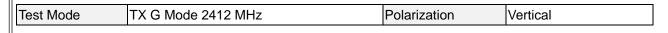


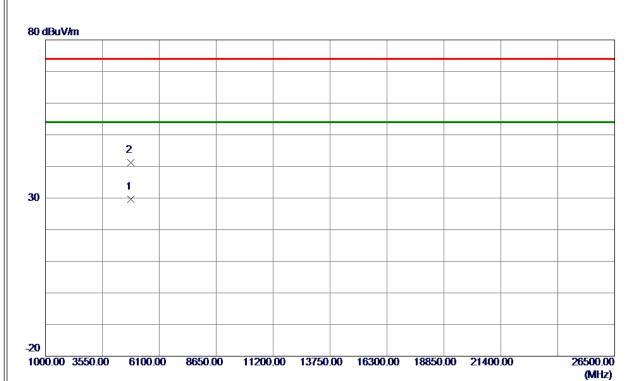


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	53. 79	5. 37	59. 16	74.00	-14. 84	Peak	
2	2390. 0000	38. 61	5. 37	43. 98	54.00	-10.02	AVG	
3	2405. 9500	95. 04	5. 41	100. 45	74.00	26. 45	Peak	No Limit
4 *	2406. 7000	88. 10	5. 41	93. 51	54.00	39. 51	AVG	No Limit

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





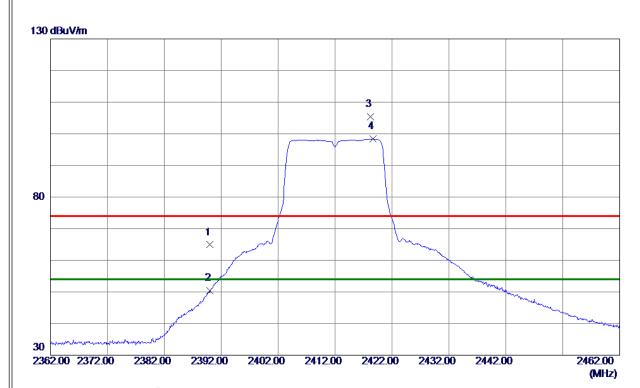


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4820. 2100	27. 48	2. 19	29. 67	54.00	-24. 33	AVG	
2	4824. 8500	39. 09	2. 20	41. 29	74.00	-32. 71	Peak	

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



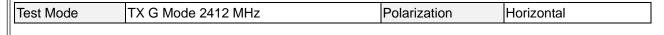


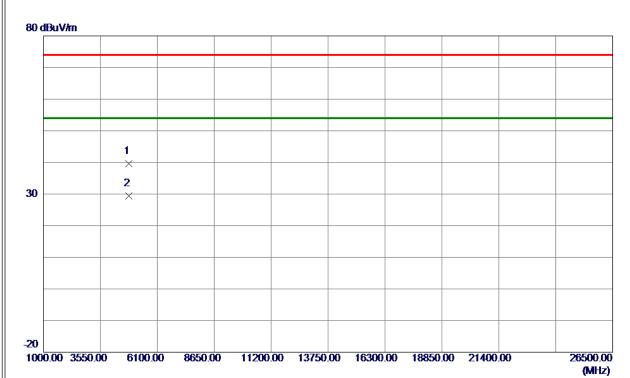


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	59. 53	5. 37	64. 90	74.00	-9. 10	Peak	
2	2390. 0000	45. 00	5. 37	50. 37	54.00	-3. 63	AVG	
3	2418. 2500	99. 87	5. 44	105. 31	74.00	31. 31	Peak	No Limit
4 *	2418. 7000	92. 93	5. 44	98. 37	54. 00	44. 37	AVG	No Limit

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



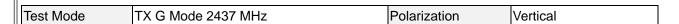


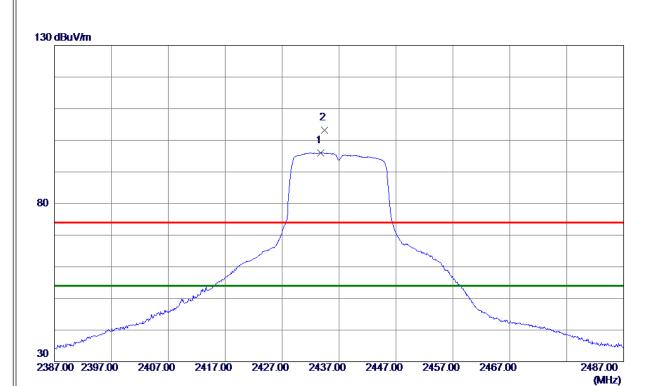


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4819. 5900	37. 50	2. 19	39. 69	74.00	-34. 31	Peak	
2 *	4820. 6000	27. 16	2. 19	29. 35	54. 00	-24. 65	AVG	

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



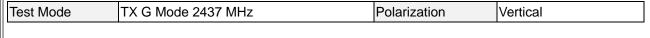


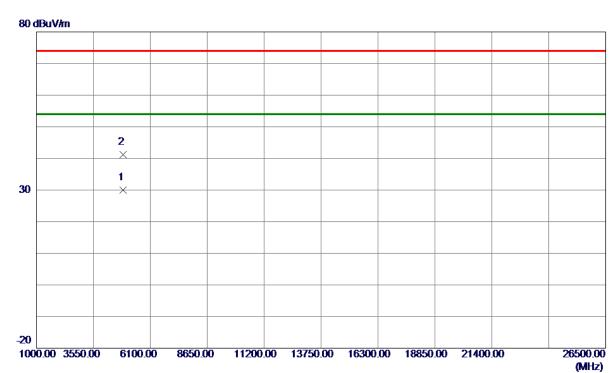


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2433. 8000	90. 61	5. 48	96. 09	54.00	42.09	AVG	No Limit
2	2434. 4000	97. 68	5. 48	103. 16	74. 00	29. 16	Peak	No Limit

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





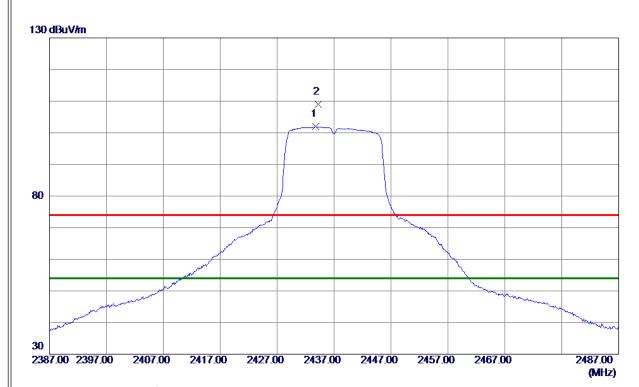


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4868. 1900	27. 59	2. 33	29. 92	54.00	-24. 08	AVG	
2	4873. 9000	38. 77	2. 35	41. 12	74.00	-32. 88	Peak	

- (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 *	2433. 8000	96. 45	5. 48	101. 93	54.00	47. 93	AVG	No Limit
2	2434. 2000	103. 51	5. 4 8	108. 99	74.00	34. 99	Peak	No Limit

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

26500.00

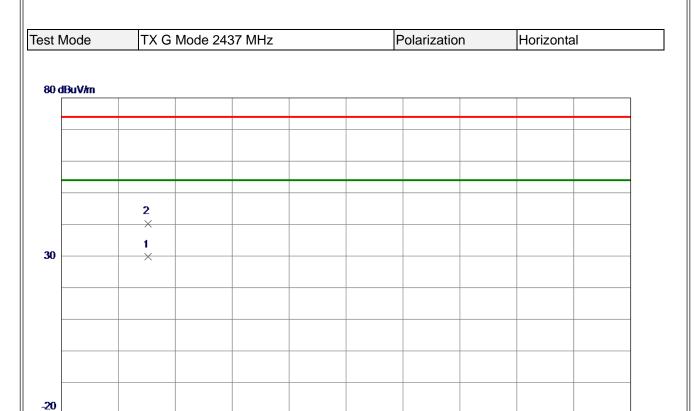
(MHz)



1000.00 3550.00

6100.00

8650.00



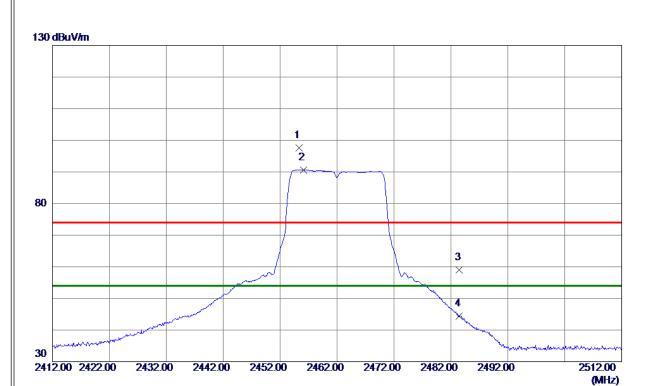
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4868. 2200	27. 37	2. 33	29. 70	54.00	-24. 30	AVG		
2	4873, 9600	37. 82	2, 35	40. 17	74. 00	-33, 83	Peak		

11200.00 13750.00 16300.00 18850.00 21400.00

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



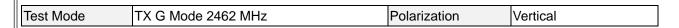


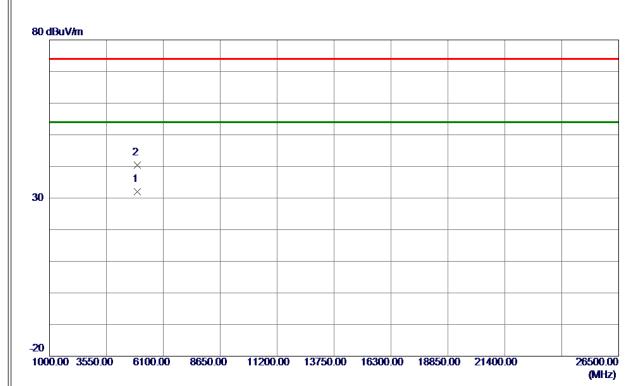


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2455. 3500	92. 01	5. 53	97. 54	74.00	23. 54	Peak	No Limit
2 *	2456. 1500	85. 14	5. 53	90. 67	54.00	36. 67	AVG	No Limit
3	2483. 5000	53. 40	5. 60	59. 00	74.00	-15.00	Peak	
4	2483. 5000	38. 76	5. 60	44. 36	54.00	-9. 64	AVG	

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





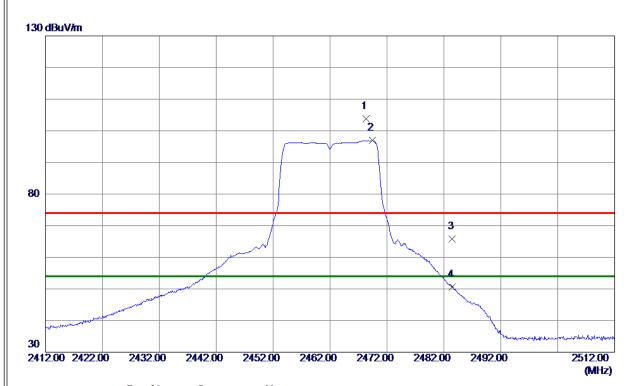


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924. 4700	29. 45	2. 50	31. 95	54.00	-22. 05	AVG	
2	4932. 4000	37. 78	2. 53	40. 31	74. 00	-33. 69	Peak	

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





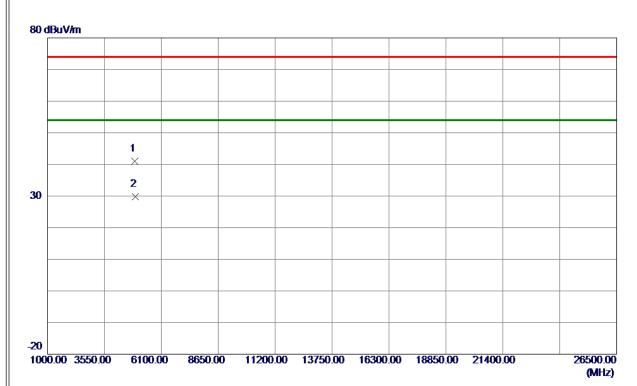


	Margin		
dBuV/m	dB	Detector	Comment
74. 00	29. 80	Peak	No Limit
54. 00	42. 93	AVG	No Limit
74. 00	-8. 2 0	Peak	
54. 00	-3. 40	AVG	
7	74. 00 54. 00 74. 00	74. 00 29. 80 54. 00 42. 93 74. 00 -8. 20	74.00 29.80 Peak 64.00 42.93 AVG 74.00 -8.20 Peak

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





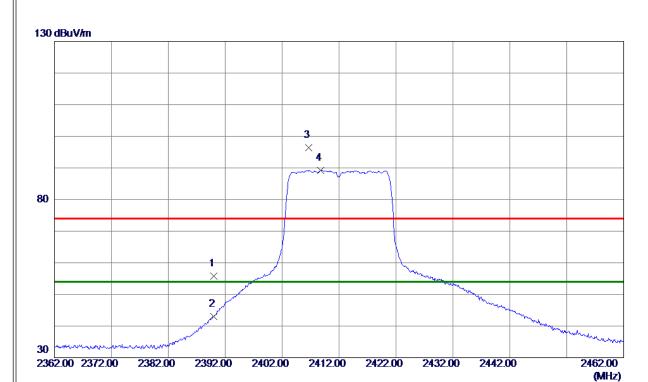


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924. 0200	38. 45	2. 50	40. 95	74.00	-33. 05	Peak	
2 *	4933. 4500	27. 27	2. 53	29. 80	54. 00	-24. 20	AVG	

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





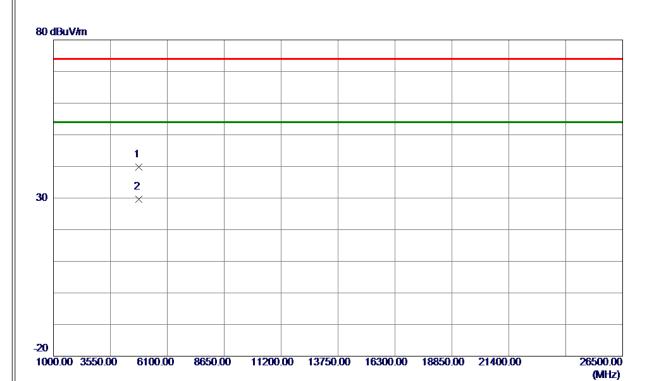


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	50. 47	5. 37	55. 84	74.00	-18. 16	Peak	
2	2390. 0000	37. 72	5. 37	43. 09	54.00	-10. 91	AVG	
3	2406.6500	90. 98	5. 41	96. 39	74.00	22. 39	Peak	No Limit
4 *	2408. 7500	83. 79	5. 42	89. 21	54.00	35. 21	AVG	No Limit

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





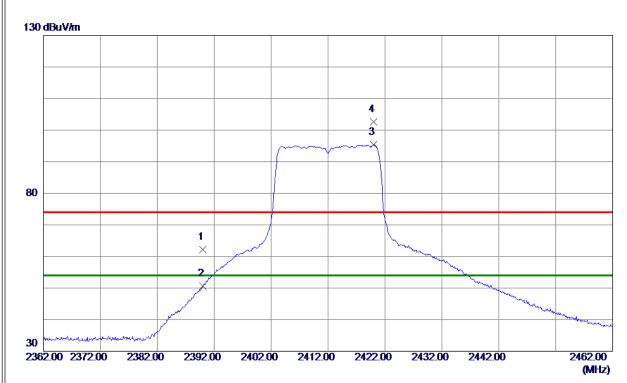


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4817. 7900	37. 53	2. 18	39. 71	74.00	-34. 29	Peak	
2 *	4821. 9300	27. 42	2. 19	29. 61	54. 00	-24. 39	AVG	

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



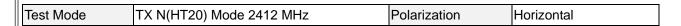


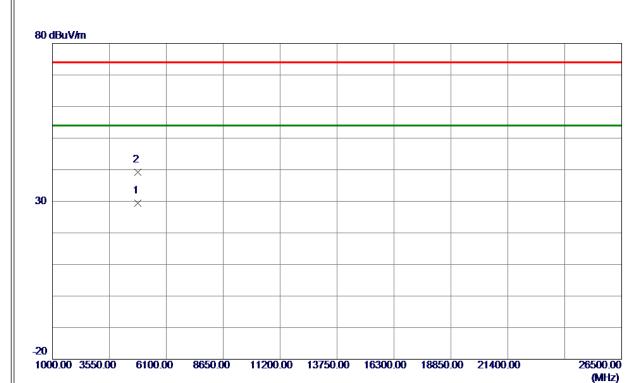


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	56. 85	5. 37	62. 22	74.00	-11. 78	Peak	
2	2390. 0000	45. 31	5. 37	50. 68	54.00	-3. 32	AVG	
3 *	2419. 9500	89. 87	5. 45	95. 32	54.00	41. 32	AVG	No Limit
4	2420. 0500	97. 21	5. 45	102. 66	74. 00	28. 66	Peak	No Limit

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





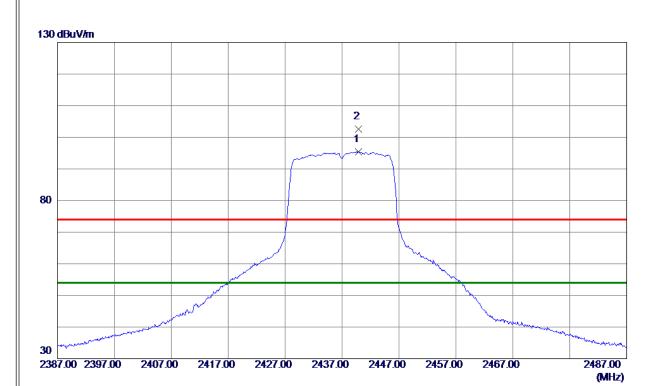


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4820. 6400	27. 17	2. 19	29. 36	54.00	-24. 64	AVG	
2	4825. 9100	37. 06	2. 20	39. 26	74.00	-34. 74	Peak	

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



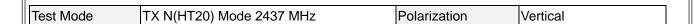




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2439. 8500	89. 95	5. 49	95. 44	54.00	41. 44	AVG	No Limit
2	2439. 9000	97. 03	5. 49	102. 52	74.00	28. 52	Peak	No Limit

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





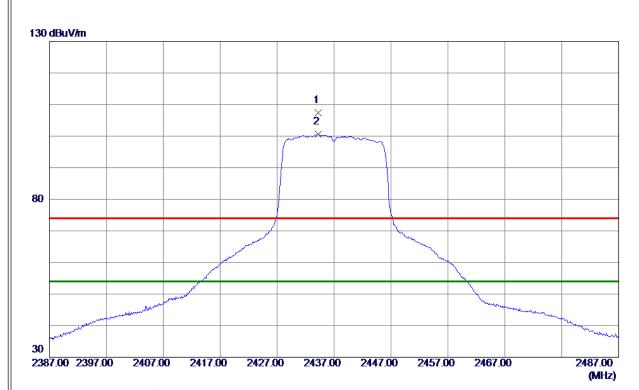


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4866. 3500	27. 68	2. 33	30. 01	54.00	-23.99	AVG	
2	4867. 1000	37. 65	2. 33	39. 98	74. 00	-34. 02	Peak	

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



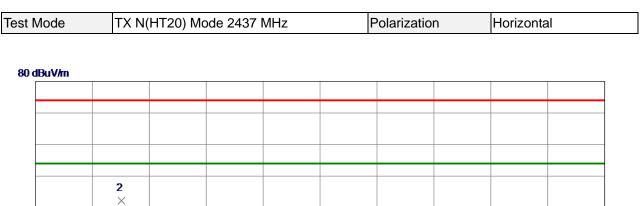


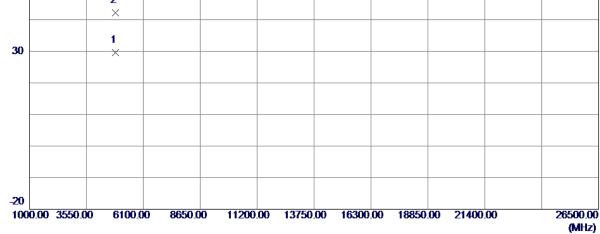


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2434. 2000	102.00	5. 48	107. 48	74.00	33. 48	Peak	No Limit
2 *	2434. 2000	95. 09	5. 48	100. 57	54.00	46. 57	AVG	No Limit

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





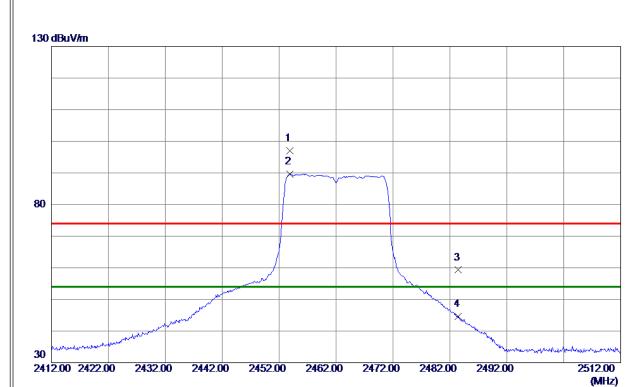


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4865. 4400	27. 31	2. 32	29. 63	54.00	-24. 37	AVG	
2	4865. 6300	39. 88	2. 32	42. 20	74.00	-31. 80	Peak	

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



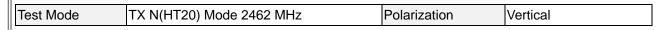


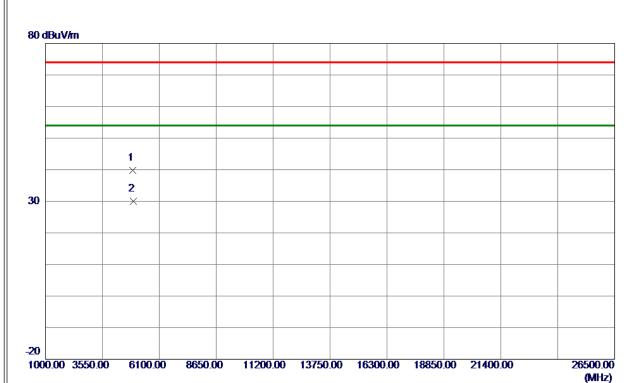


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2453. 8500	91. 38	5. 53	96. 91	74.00	22. 91	Peak	No Limit
2 *	2453. 9000	84. 09	5. 53	89. 62	54.00	35. 62	AVG	No Limit
3	2483. 5000	53. 70	5. 60	59. 30	74. 00	-14. 70	Peak	
4	2483. 5000	38. 95	5. 60	44. 55	54. 00	−9. 45	AVG	

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



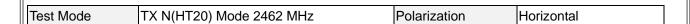


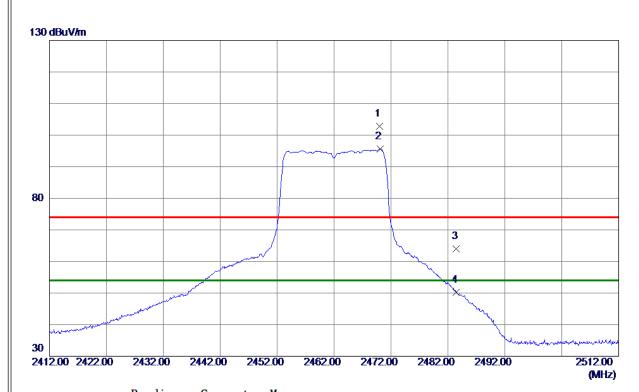


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4917. 4700	37. 28	2. 48	39. 76	74.00	-34. 24	Peak	
2 *	4927. 6100	27. 41	2. 51	29. 92	54.00	-24. 08	AVG	

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



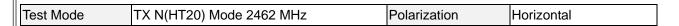


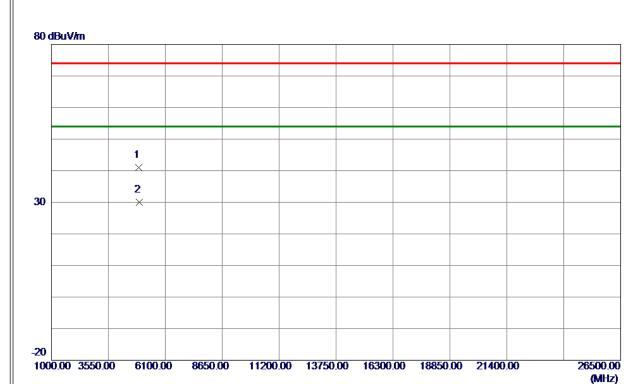


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2470.0500	97. 20	5. 57	102. 77	74.00	28. 77	Peak	No Limit
2 *	2470. 1000	90. 07	5. 57	95. 64	54.00	41.64	AVG	No Limit
3	2483. 5000	58. 36	5. 60	63. 96	74.00	-10. 04	Peak	
4	2483. 5000	44. 54	5. 60	50. 14	54.00	-3. 86	AVG	
4								

- (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	4923. 6500	38. 53	2. 50	41. 03	74.00	-32. 97	Peak	
2 *	4933. 4700	27. 40	2. 53	29. 93	54. 00	-24. 07	AVG	

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

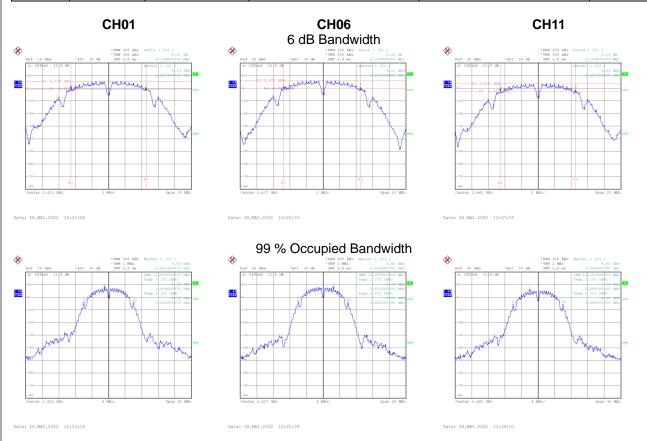


APPENDIX E - BANDWIDTH					



Test Mode	TY R Mode
rest ivioue	IX B Mode

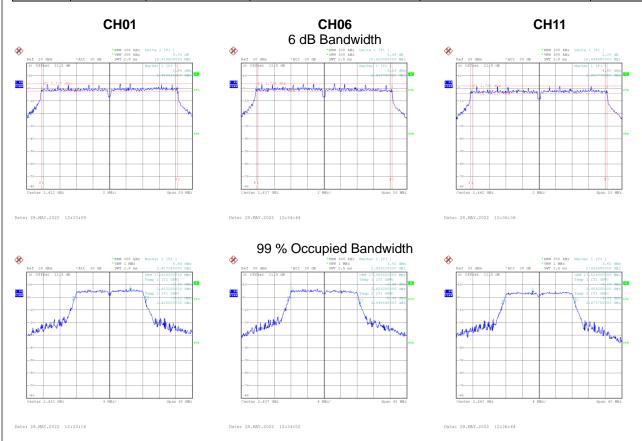
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	9.160	12.080	0.5	Complies
06	2437	9.340	12.000	0.5	Complies
11	2462	9.160	12.000	0.5	Complies





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1		
ш	Test Mode	TX G Mode
1	rest ivioge	LLX CalVIOOE
	1001111000	1174 & 111040

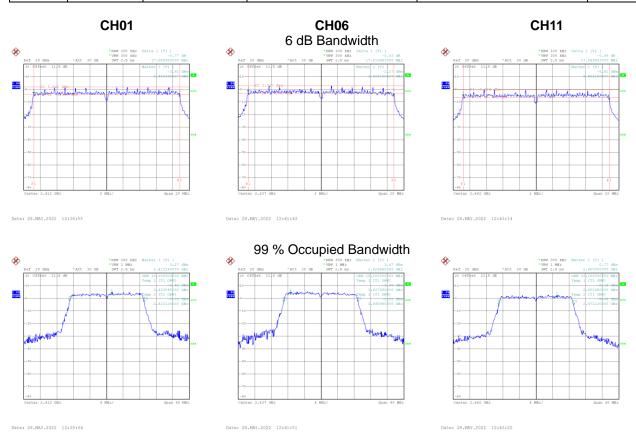
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.420	17.520	0.5	Complies
06	2437	16.420	17.360	0.5	Complies
11	2462	16.450	17.520	0.5	Complies





Test Mode	TX N(HT20) Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.660	18.080	0.5	Complies
06	2437	17.620	18.000	0.5	Complies
11	2462	17.650	18.160	0.5	Complies





APPENDIX F - MAXIMUM OUTPUT POWER



Test Mode	TX B Mode
100t Widae	I I N D IVIOGO

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.31	0.00	16.31	30.00	1.0000	Complies
06	2437	16.81	0.00	16.81	30.00	1.0000	Complies
11	2462	14.26	0.00	14.26	30.00	1.0000	Complies

Test Mode	TX G Mode
rest mode	I I A G IVIOUE

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.83	0.09	15.92	30.00	1.0000	Complies
06	2437	15.68	0.09	15.77	30.00	1.0000	Complies
11	2462	13.18	0.09	13.27	30.00	1.0000	Complies

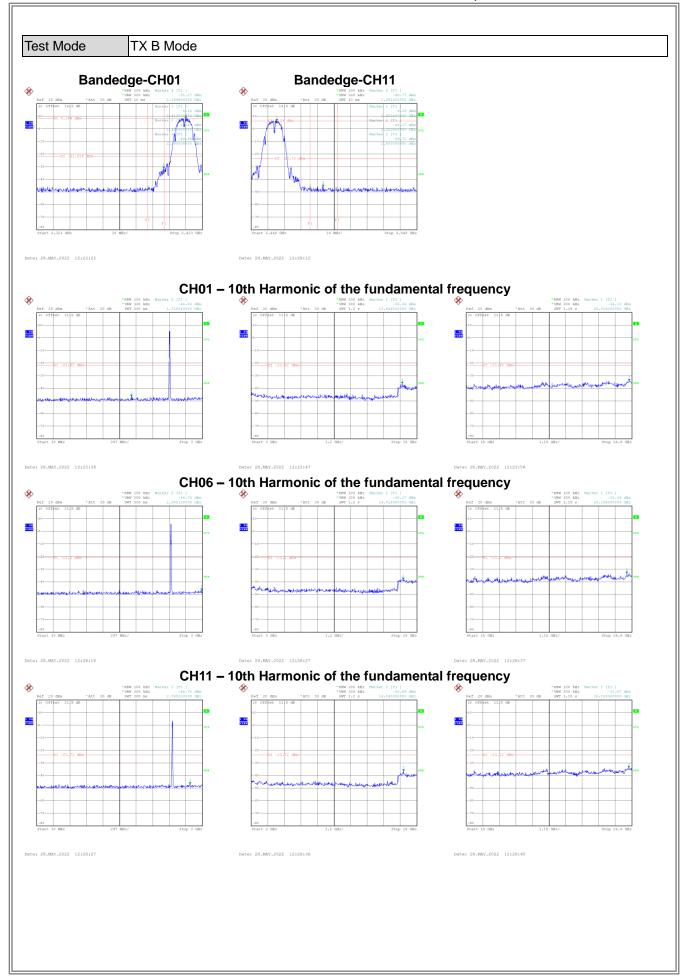
Test Mode	TX N(HT20) Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.92	0.16	14.08	30.00	1.0000	Complies
06	2437	14.58	0.16	14.74	30.00	1.0000	Complies
11	2462	12.14	0.16	12.30	30.00	1.0000	Complies

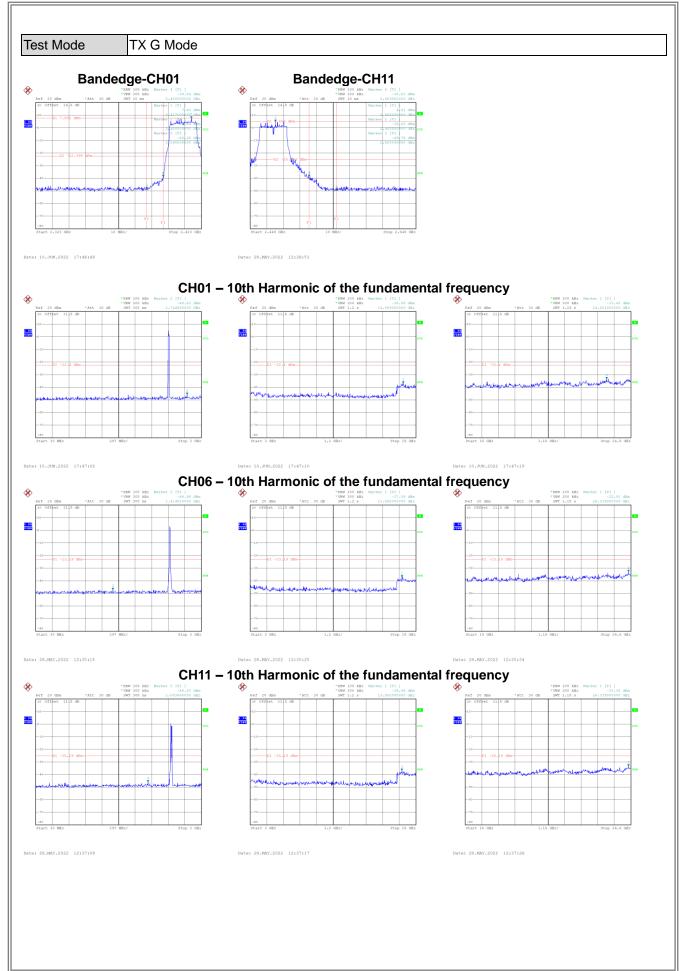


APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

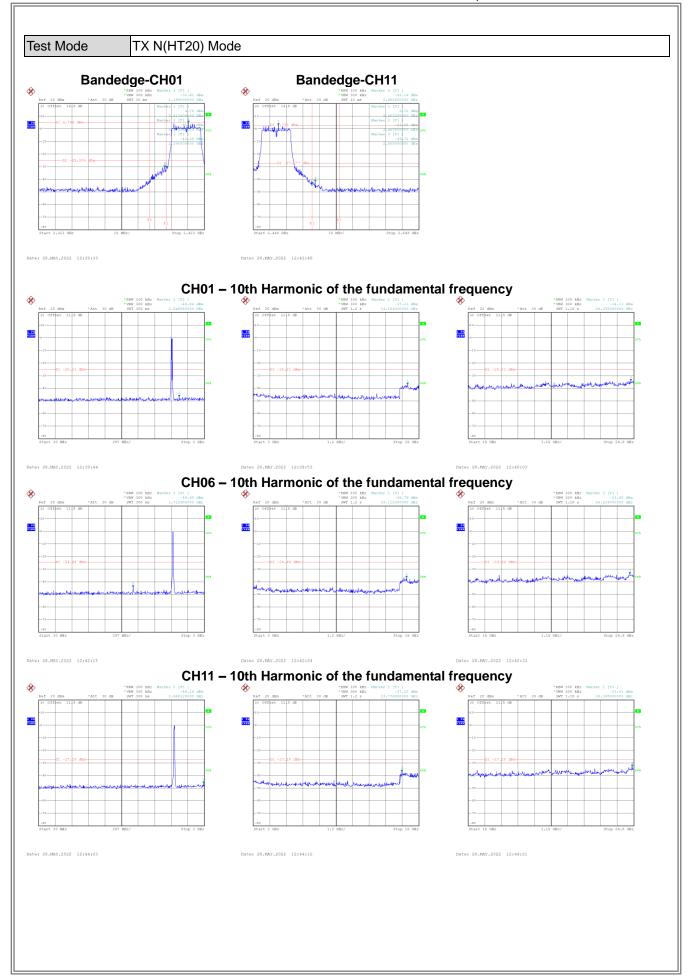














APPENDIX H - POWER SPECTRAL DENSITY			



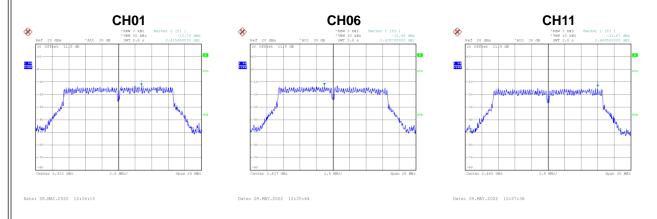
ı	Test Mode	TX B Mode
	100t IVIOGO	I I N D IVIOGO

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-10.59	8.00	Complies
06	2437	-9.58	8.00	Complies
11	2462	-13.47	8.00	Complies



Took Mode	ITV C Mada
Test Mode	ITX G Mode
1001 111040	17. O mode

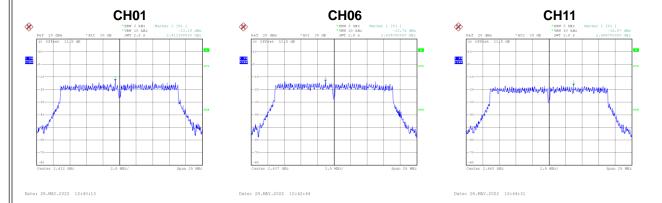
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-12.74	8.00	Complies
06	2437	-12.49	8.00	Complies
11	2462	-13.67	8.00	Complies





Test Mode	TX N(HT20) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-13.19	8.00	Complies
06	2437	-13.74	8.00	Complies
11	2462	-16.87	8.00	Complies



End of Test Report