



FCC Radio Test Report

FCC ID: ZMOSQ806W

This report concerns: Original Grant

Project No. : 2203C006

Equipment: WiFi Smart Module

Brand Name : Fibocom Test Model : SQ806-W

Series Model : N/A

Applicant: Fibocom Wireless Inc.

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

Dashi 1st Rd, Nanshan, Shenzhen, China

Manufacturer : Fibocom Wireless Inc.

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

Dashi 1st Rd, Nanshan, Shenzhen, China

Date of Receipt : Mar. 08, 2022

Date of Test : Mar. 09, 2022 ~ Mar. 25, 2022

Issued Date : Mar. 31, 2022

Report Version : R00

Test Sample : Engineering Sample No.: DG2022030911 for conducted,

DG202203098 for radiated.

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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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** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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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

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-3-2203C006	R00	Original Report	Mar. 31, 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)
		30MHz ~ 200MHz	V	4.36
DG-CB03	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	1GHz ~ 6GHz	3.80	
(3m)	CISPR	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	23°C	54%	AC 120V/60Hz	Rod Tang
Radiated Emissions-9kHz to 30 MHz	24°C	63%	DC 3.8V	Torocat Yuan
Radiated Emissions-30MHz to 1000MHz	24°C	52%	DC 3.8V	Jakyri Wen
Radiated Emissions-Above 1000MHz	26°C	52%	DC 3.8V	Jakyri Wen
Bandwidth	23°C	44%	DC 3.8V	Nicole Chen
Maximum Output Power	23°C	44%	DC 3.8V	Nicole Chen
Conducted Spurious Emissions	23°C	44%	DC 3.8V	Nicole Chen
Power Spectral Density	23°C	44%	DC 3.8V	Nicole Chen



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	WiFi Smart Module
Brand Name	Fibocom
Test Model	SQ806-W
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC voltage supplied from external power supply.
Power Rating	DC 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: 17.47 dBm (0.0558 W)

Note:

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

2. Channel List:

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

3. Antenna Specification:

Α	nt.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
	1	shenzhen bogesi communication technology co.,ltd	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 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 4	Mode 4 TX B Mode Channel 11	

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

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 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.



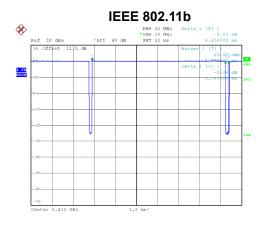
2.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	QRCT3.0.265.0		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	16	16	16
IEEE 802.11g	15	15.5	15.5
IEEE 802.11n(HT20)	14.5	14.5	14.5



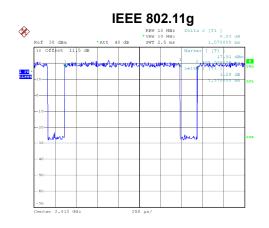
2.4 DUTY CYCLE

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: 15.MAR.2022 15:09:11

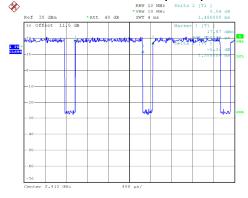
Duty cycle = 8.242 ms / 8.450 ms = 97.54% Duty Factor = 10 log(1/Duty cycle) = 0.11



Date: 15.MAR.2022 15:09:51

Duty cycle = 1.370 ms / 1.570 ms = 87.26% Duty Factor = 10 log(1/Duty cycle) = 0.59





Date: 15.MAR.2022 15:10:18

Duty cycle = 1.288 ms / 1.480 ms = 87.03% Duty Factor = 10 log(1/Duty cycle) = 0.60

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 121 Hz.

For IEEE 802.11g:

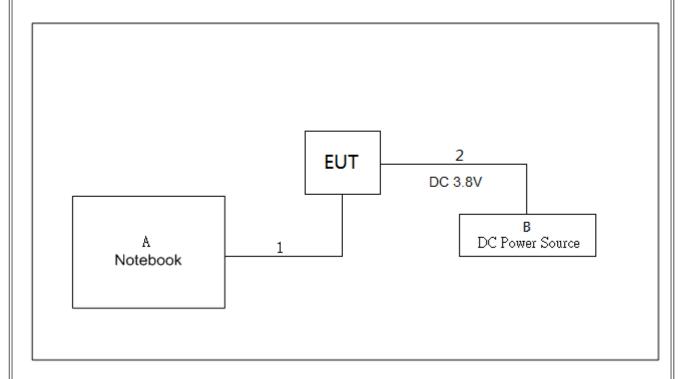
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 730 Hz.

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 776 Hz.



2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
Α	Notebook	HONOR	NBLK-WAX9X	N/A
В	DC Power Source	TRUE-POWER	GPC30300N	N/A

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



3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency 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:

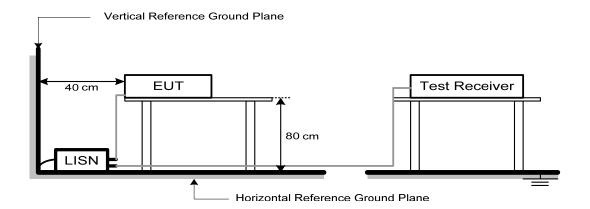
Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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)

Fraguency (MHz)	(dBuV/m at 3 m)	
Frequency (MHz)	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

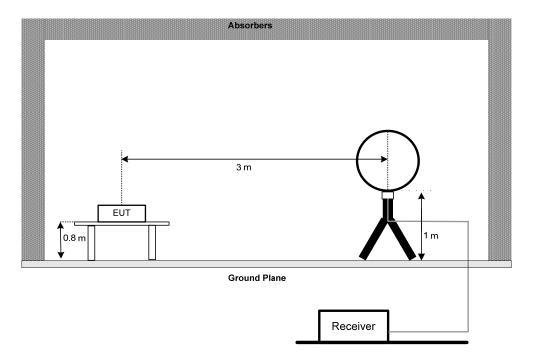


4.3 DEVIATION FROM TEST STANDARD

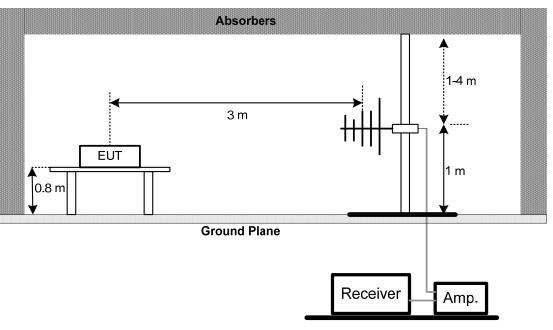
No deviation.

4.4 TEST SETUP

9 kHz to 30 MHz

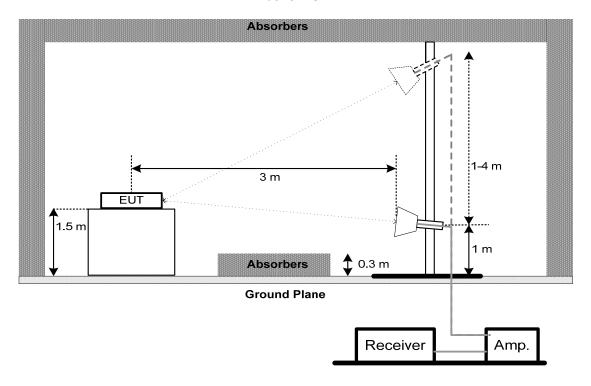


30 MHz to 1 GHz





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
FCC 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 barrawiatir.		
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:

Of OO70 Enflocion Banawaa		
Spectrum Parameters	Setting	
Span Frequency	Between 1.5 times and 5.0 times the OBW	
RBW	300 kHz For 20MHz	
VBW	1 MHz For 20MHz	
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

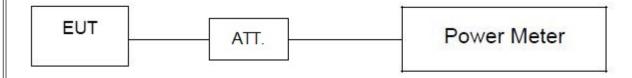
6.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter 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 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)
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	ı Faran		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	May 27, 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	Manufacturer Type No. Serial No.						
1	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	586	Feb. 11, 2023				
2	Amplifier	HP	8447D	2944A08742	Jan. 22, 2023				
3	Cable	emci LMR-400		N/A	Nov. 30, 2022				
4	Controller	ontroller CT SC100		N/A	N/A				
5	Controller	MF	MF-7802	MF780208416	N/A				
6	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023				
7	Measurement Software	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. 21, 2022		
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 MF-7802 MF780208416		N/A		
6	Receiver	Agilent	Agilent N9038A MY52130039		Jan. 22, 2023		
7	EXA Spectrum Analyzer	Keysight	Keysight N9010A		Jan. 22, 2023		
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 16, 2022		
9	Cable	N/A	A81-SMAMSMAM-12. 5M	N/A	Oct. 15, 2022		
10	Cable	Talent microwave	A40-2.92M2.92M-2.5 M	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	Jul. 24, 2022		



Bandwidth & Conducted Spurious Emissions & Power Spectral Density								
Item	em Kind of Equipment Manufacturer Type No. Serial No. Calibrated unti							
1	Spectrum Analyzer	R&S	FSP40	100185	Jul. 10, 2022			
2 Attenuator WOKEN 6SM3502 VAS1214NL N/A								
3	3 RF Cable Tongkaichuan N/A N/A N/A							
4	DC Block	Mini	N/A	N/A	N/A			

	Maximum Output Power								
Item	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated								
1	Peak Power Analyzer	Keysight	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	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



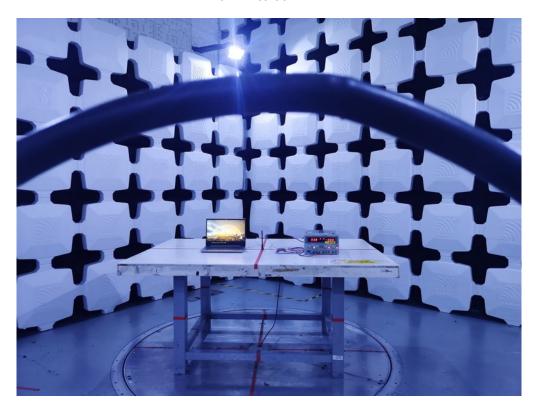


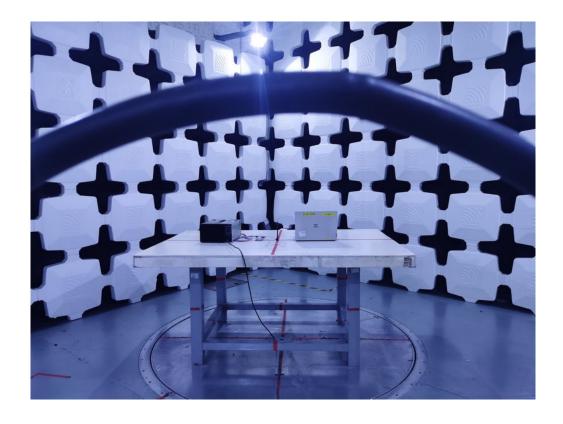




Radiated Emissions Test Photos

9 kHz to 30 MHz

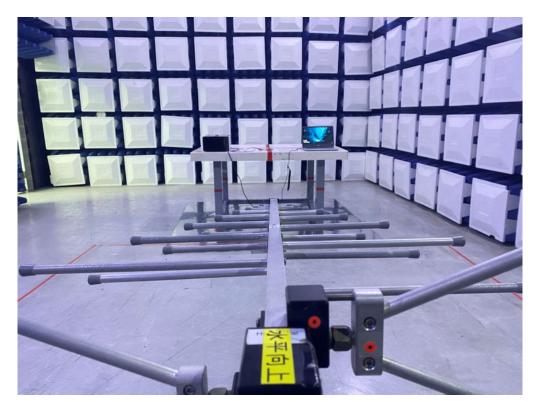






Radiated Emissions Test Photos

30 MHz to 1 GHz

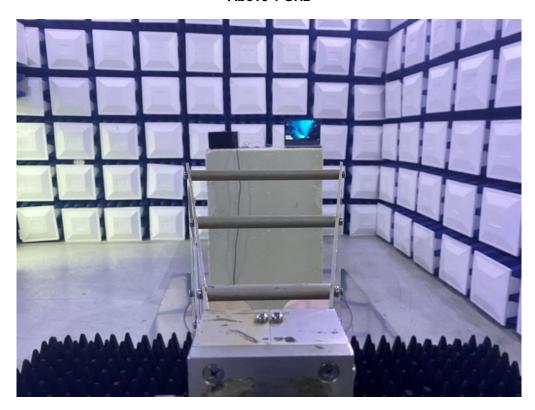


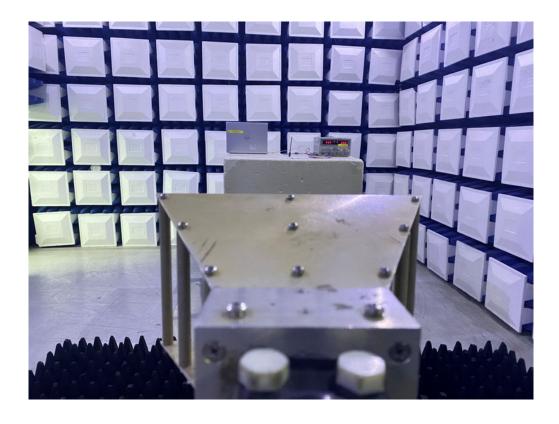




Radiated Emissions Test Photos

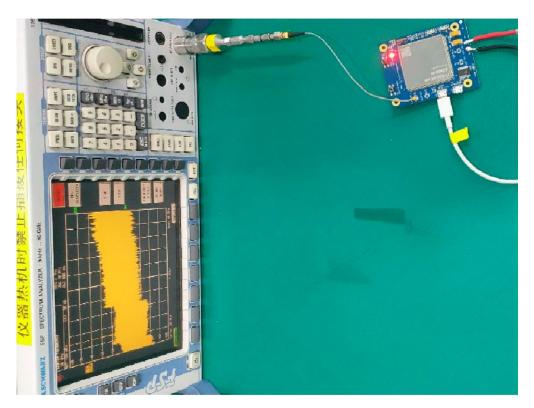
Above 1 GHz

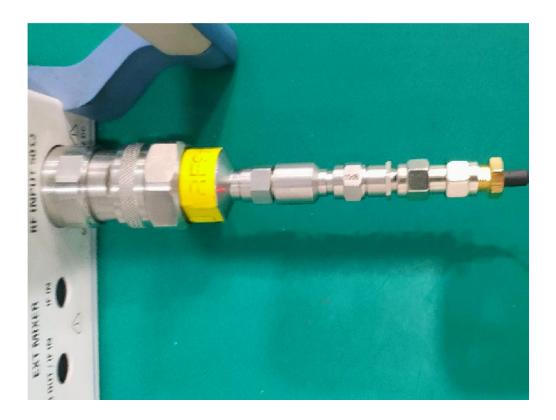




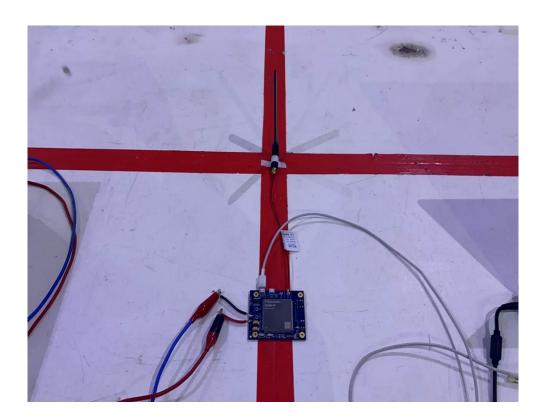


Conducted Test Photos







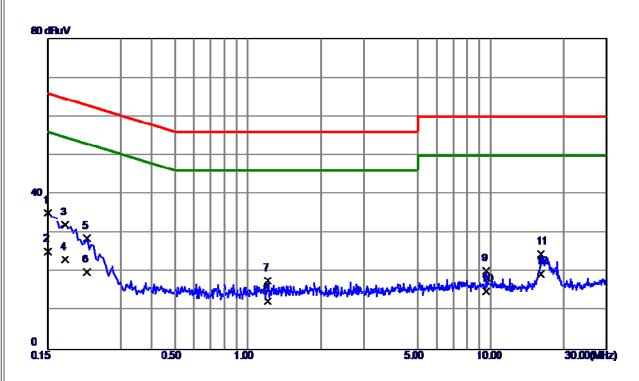




APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS







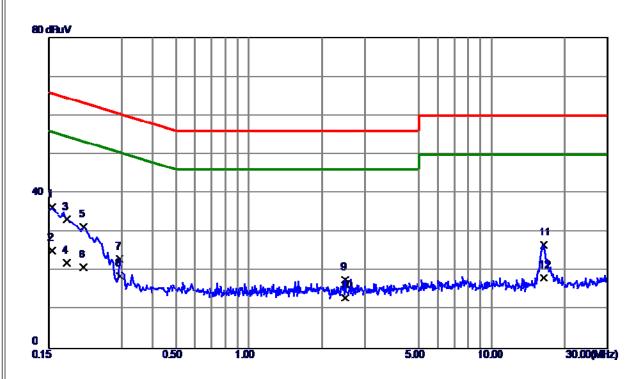
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1500	25. 58	9. 65	35. 23	66. 00	-30. 77	QP	
2	0. 1500	15. 61	9. 65	25. 26	56.00	-30. 74	AVG	
3	0. 1770	22. 54	9. 68	32. 22	64. 63	-32. 41	QP	
4	0. 1770	13. 49	9. 68	23. 17	54. 63	-31. 46	AVG	
5	0. 2175	18. 98	9. 70	28. 68	62. 91	-34. 23	QP	
6	0. 2175	10. 29	9. 70	19. 99	52. 91	-32. 92	AVG	
7	1. 2030	7. 94	9. 84	17. 78	56. 00	-38. 22	QP	
8	1. 2030	2. 60	9. 84	12.44	46. 00	-33. 56	AVG	
9	9. 5505	9. 86	10. 45	20.31	60.00	-39. 69	QP	
10	9. 5505	4. 60	10. 45	15. 05	50.00	-34. 95	AVG	
11	16. 1070	13. 95	10. 64	24. 59	60. 00	-35. 41	QP	_
12 *	16. 1070	8. 90	10.64	19. 54	50. 00	-30. 46	AVG	

REMARKS:

- (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. 1545	26. 74	9. 71	36. 45	65. 75	-29. 30	QP	
2	0 . 15 4 5	15. 60	9. 71	25. 31	55. 75	-30. 44	AVG	
3	0. 1777	23. 53	9. 72	33. 25	64. 59	-31. 34	QP	
4	0. 1777	12. 39	9. 72	22. 11	54. 59	-32. 48	AVG	
5	0. 2085	21. 60	9. 73	31. 33	63. 26	-31. 93	QP	
6	0. 2085	11. 20	9. 73	20. 93	53. 26	-32. 33	AVG	
7	0. 2940	13. 34	9. 75	23. 09	60. 41	-37. 32	QP	
8	0. 2940	8. 90	9. 75	18. 65	50. 41	-31. 76	AVG	
9	2. 4900	7. 84	9. 96	17. 80	56. 00	-38. 20	QP	
10	2. 4900	3. 10	9. 96	13.06	46. 00	-32. 94	AVG	
11	16. 3590	16. 05	10. 69	26. 74	60. 00	-33. 26	QP	
12	16. 3590	7. 49	10. 69	18. 18	50. 00	-31. 82	AVG	

REMARKS:

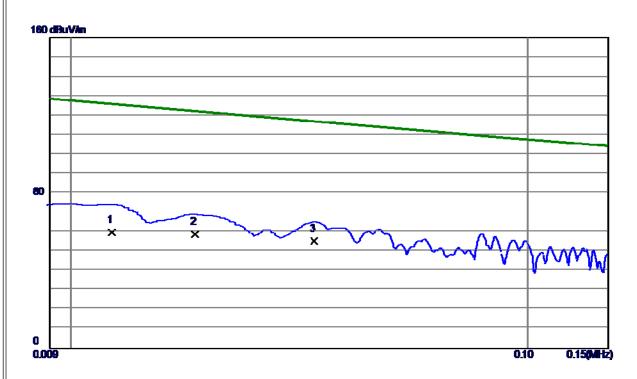
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ





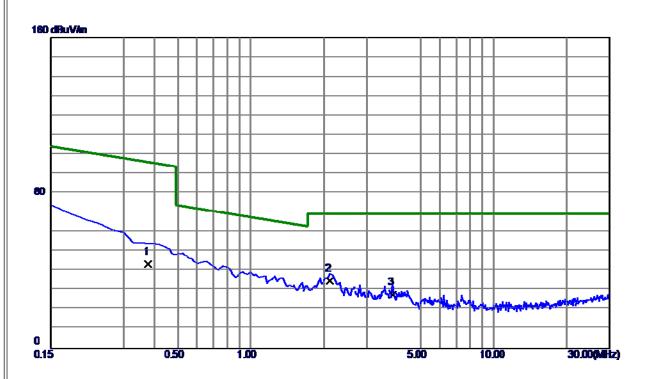


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0123	43. 22	16. 69	59. 91	125. 72	-65. 81	AVG	
2	0.0187	44. 25	14. 70	58. 95	122. 10	-63. 15	AVG	
3 *	0.0341	41. 36	13. 97	55. 33	116. 90	-61. 57	AVG	

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





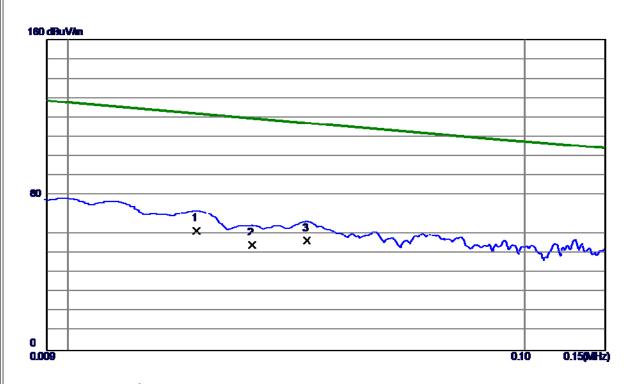


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0. 3771	30. 12	13. 48	43.60	96. 07	-52. 47	AVG	
2 *	2. 1052	22. 81	12.05	34.86	69. 54	-3 4 . 68	QP	
3	3.8215	16. 23	11.71	27.94	69. 54	-41. 60	QP	

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





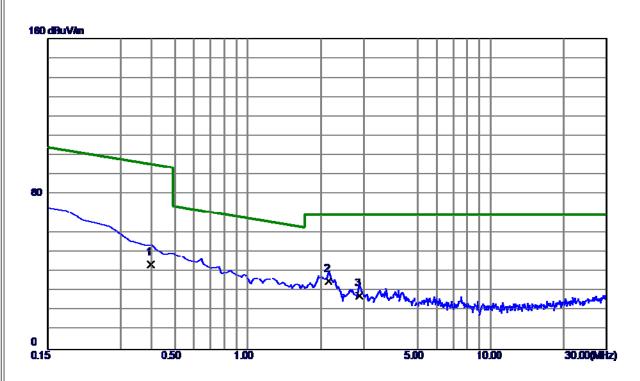


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0191	47. 23	14. 57	61.80	121. 9 2	-60. 12	AVG	
2	0.0253	40. 11	14. 17	54 . 28	119.48	-65. 20	AVG	
3	0. 0333	42.66	13. 98	56. 64	117. 11	- 60 . 47	AVG	

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







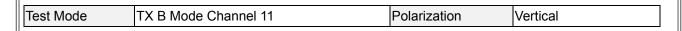
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.3997	30. 36	13. 45	43.81	95. 57	-51 . 76	AVG	
2 *	2. 1500	23. 12	12. 03	35. 15	69. 54	-34. 39	QP	
3	2.8813	16. 22	11. 76	27. 98	69. 54	-41 . 56	QP	

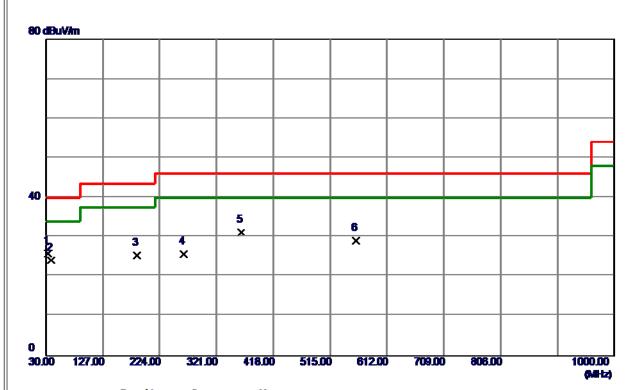
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ



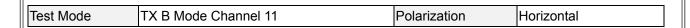


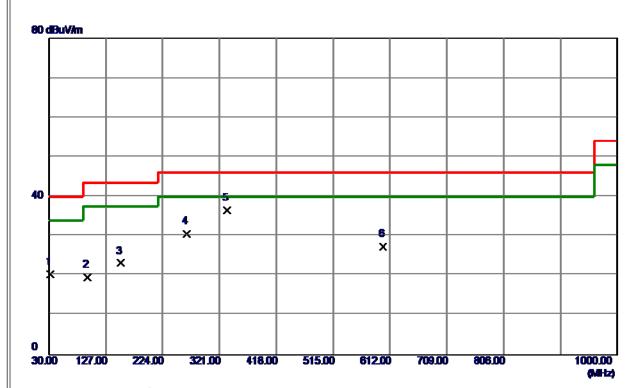


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	32. 9100	40. 33	-1 4. 45	25. 88	40.00	-14. 12	Peak	
2	38. 7300	37. 82	-13. 71	24. 11	40.00	-15. 89	Peak	
3	185. 2000	39. 51	-1 4.04	25. 47	43. 50	-18. 03	Peak	
4	264. 7400	38. 44	-12. 72	25. 72	46.00	-20. 28	Peak	
5	362. 7100	41. 20	-1 0. 04	31. 16	46. 00	-14. 84	Peak	
6	559. 1350	35. 45	-6. 27	29. 18	46. 00	-16. 82	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	32. 4250	34. 75	-1 4. 4 7	20. 28	40.00	-19. 72	Peak	
2	95. 9600	37. 14	−1 7. 56	19. 58	43. 50	-23. 92	Peak	
3	152. 7050	36. 05	-1 2. 93	23. 12	43. 50	-20. 38	Peak	
4	264. 7400	43. 30	-12. 72	30. 58	46.00	-15. 42	Peak	
5 *	334. 0950	47. 08	-1 0.61	36. 47	46.00	-9. 53	Peak	
6	599. 8750	32. 77	-5. 46	27. 31	46.00	-18. 69	Peak	

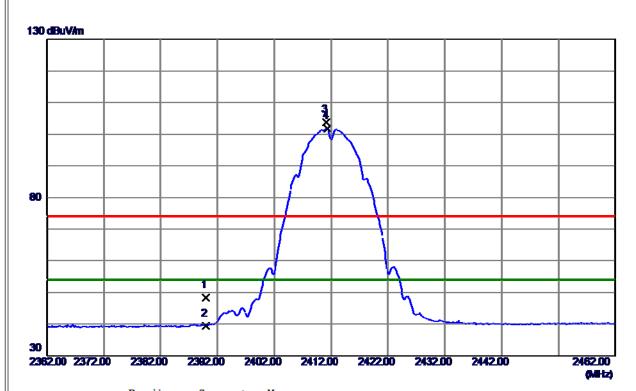
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ





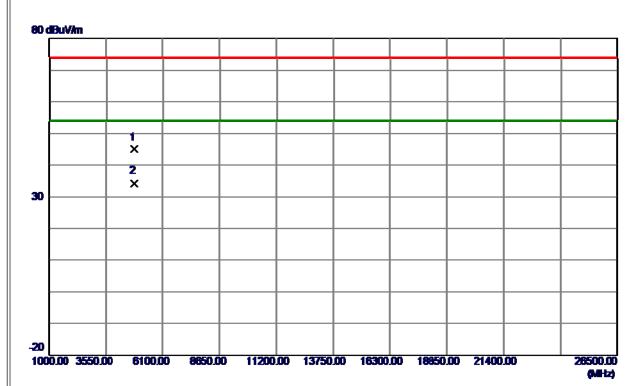


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	40.00	8. 31	48. 31	74.00	-25.69	Peak	
2	2390. 0000	31. 13	8. 31	39. 44	54. 00	-14. 56	AVG	
3	2411. 1500	95. 47	8. 33	103.80	74.00	29.80	Peak	No Limit
4 *	2411. 3500	93. 51	8. 33	101.84	54. 00	47. 84	AVG	No Limit

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





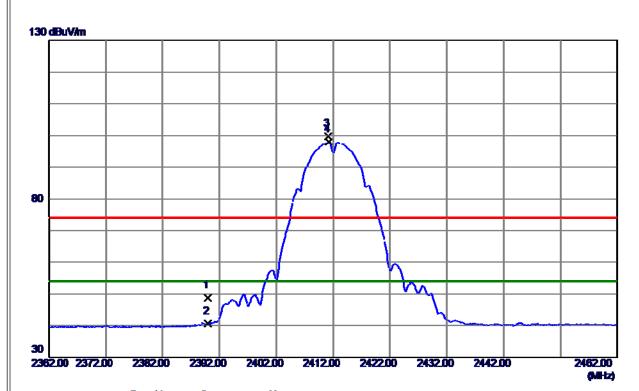


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823. 8520	39. 67	5. 23	44. 90	74. 00	-29. 10	Peak	
2 *	4823 8650	28. 94	5. 23	34. 17	54.00	-19.83	AVG	

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



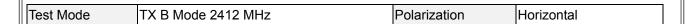


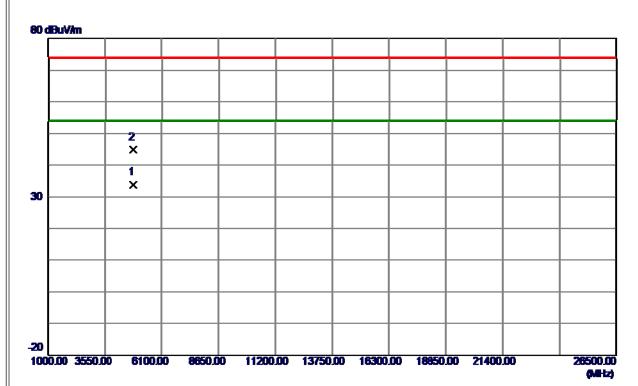


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	40. 55	8. 31	48. 86	74.00	-25. 14	Peak	
2	2390. 0000	32. 25	8. 31	40. 56	54.00	-13. 44	AVG	
3	2411. 1000	91. 44	8. 33	99. 77	74. 00	25. 77	Peak	No Limit
4 *	2411. 2000	89. 58	8. 33	97. 91	54. 00	43. 91	AVG	No Limit

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





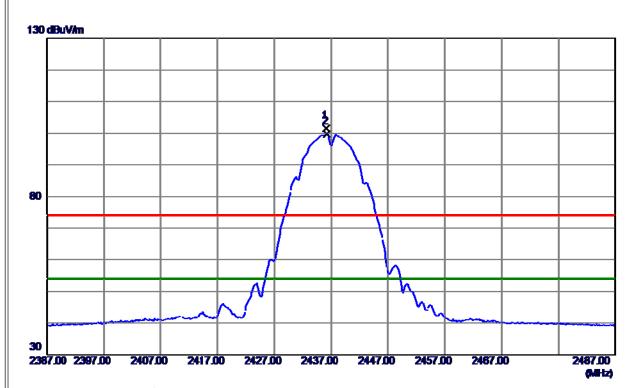


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4822. 7120	28. 61	5. 22	33. 83	54.00	-20. 17	AVG	
2	4824, 1650	39. 50	5. 23	44, 73	74.00	-29. 27	Peak	

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





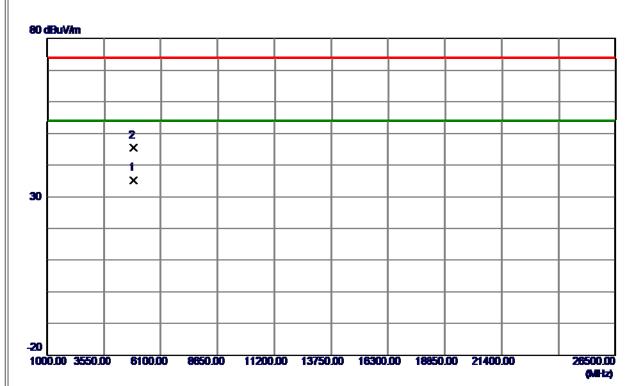


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436. 1500	93. 32	8. 36	101.68	74.00	27. 68	Peak	No Limit
2 *	2436, 2500	91. 45	8. 36	99. 81	54. 00	45. 81	AVG	No Limit

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





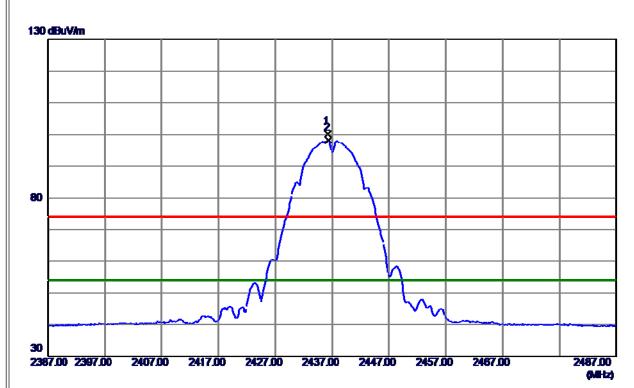


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874. 0200	29. 77	5. 48	35. 25	54.00	-18. 75	AVG	
2	4874 1080	39 96	5. 48	45 44	74 00	-28 56	Peak	

- (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	2436. 2000	91.85	8. 36	100. 21	74. 00	26. 21	Peak	No Limit
2 *	2436, 3000	89. 80	8.36	98. 16	54.00	44.16	AVG	No Limit

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





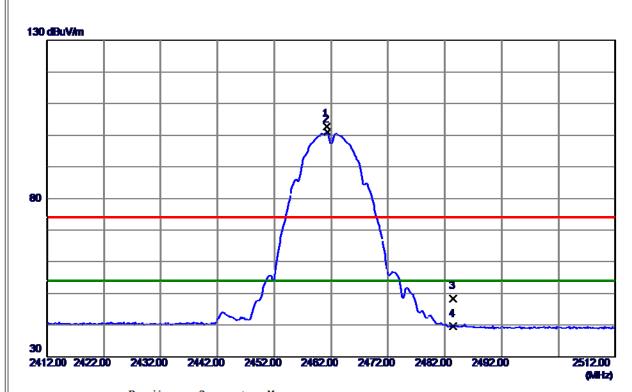


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873. 9270	39. 72	5. 48	45 . 20	74. 00	-28. 80	Peak	
2 *	4874, 1300	29. 21	5.48	34, 69	54.00	-19.31	AVG	

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



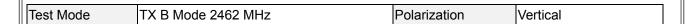


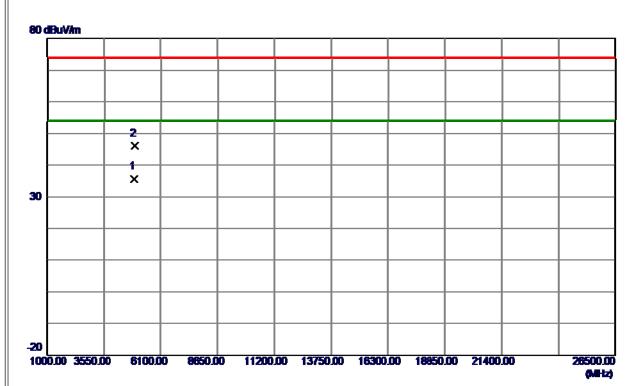


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461. 2000	94. 38	8. 40	102.78	74.00	28. 78	Peak	No Limit
2 *	2461. 3000	92. 54	8. 40	100.94	54.00	46. 94	AVG	No Limit
3	2483. 5000	40. 07	8. 42	48. 49	74.00	-25. 51	Peak	
4	2483. 5000	31. 23	8. 42	39. 65	54. 00	-14. 35	AVG	

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





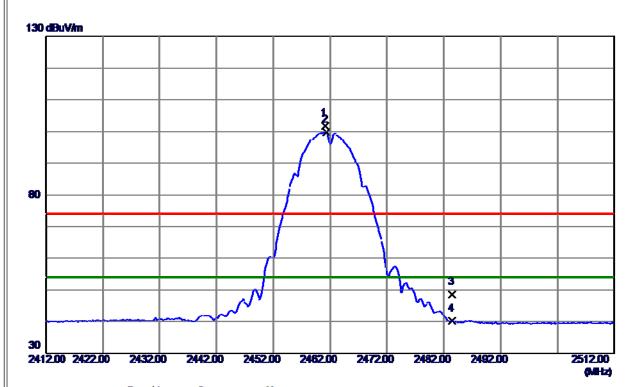


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923. 8750	29. 80	5. 73	35. 53	54. 00	-18 . 4 7	AVG	
2	4924 4830	40.31	5. 74	46. 05	74.00	-27.95	Peak	

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





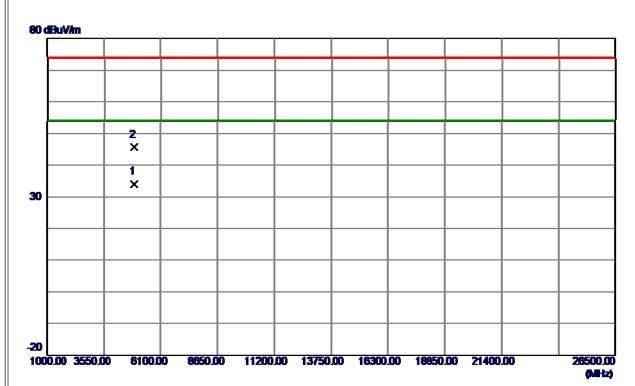


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461. 1000	93. 31	8. 40	101.71	74.00	27. 71	Peak	No Limit
2 *	2461. 3000	91. 43	8. 40	99. 83	54.00	45. 83	AVG	No Limit
3	2483. 5000	40. 11	8. 42	48. 53	74.00	-25.4 7	Peak	
4	2483. 5000	31. 69	8. 42	40. 11	54.00	-13.89	AVG	

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





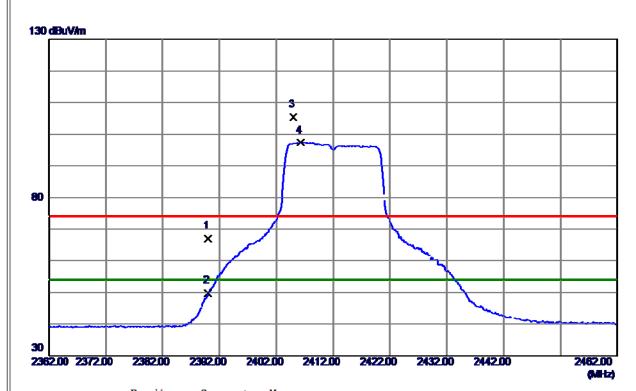


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924. 0019	28. 36	5. 73	34. 09	54. 00	-19. 91	AVG	
2	4924, 0150	39.90	5. 73	45.63	74.00	-28.37	Peak	

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





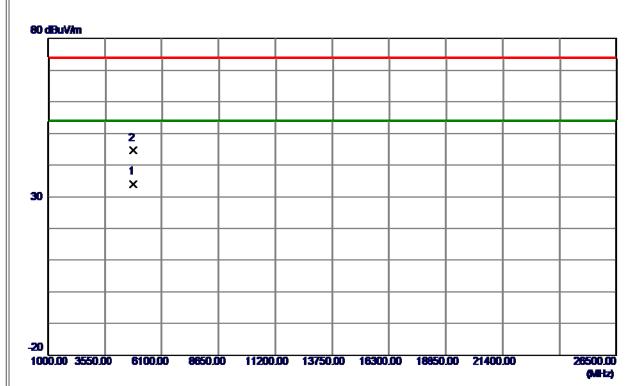


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	58. 73	8. 31	67. 04	74.00	-6. 96	Peak	
2	2390. 0000	41. 44	8. 31	49. 75	54.00	-4. 25	AVG	
3	2405. 0000	97. 00	8. 32	105.32	74.00	31. 32	Peak	No Limit
4 *	2406. 3500	88. 97	8. 33	97. 30	54. 00	43. 30	AVG	No Limit

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





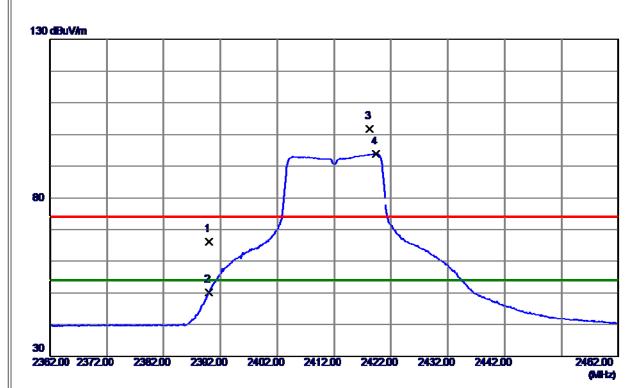


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4821. 9049	28. 79	5. 22	34. 01	54.00	-19.99	AVG	
2	4828, 2250	39. 26	5. 25	44. 51	74.00	-29.49	Peak	

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



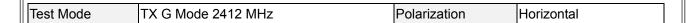




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	57. 94	8. 31	66. 25	74.00	-7. 75	Peak	
2	2390. 0000	41. 97	8. 31	50. 28	54. 00	-3. 72	AVG	
3	2418. 2000	93. 46	8. 34	101.80	74.00	27. 80	Peak	No Limit
4 *	2419. 3000	85. 47	8. 34	93. 81	54.00	39. 81	AVG	No Limit

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





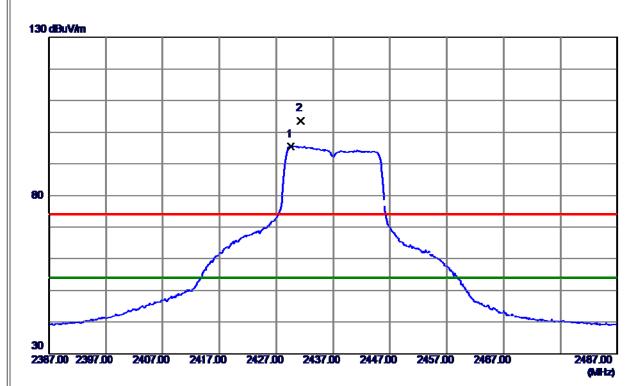


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4819. 1750	39. 39	5. 20	44. 59	74. 00	-29. 41	Peak	
2 *	4821, 1750	28, 75	5. 21	33, 96	54, 00	-20, 04	AVG	

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







No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2429. 6000	87. 12	8. 36	95. 48	54. 00	41. 48	AVG	No Limit
2	2431, 3500	95. 33	8. 36	103.69	74. 00	29. 69	Peak	No Limit

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





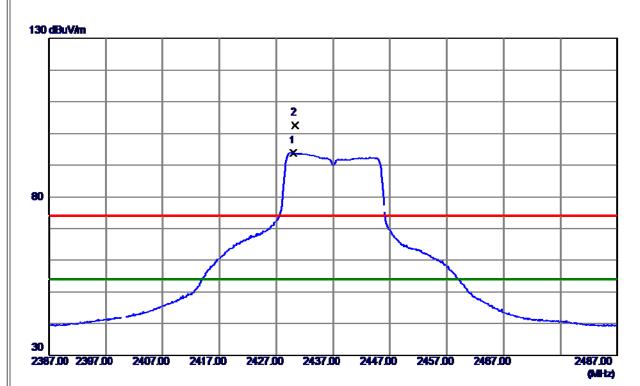


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4870. 2799	28. 44	5. 46	33. 90	54. 00	-20. 10	AVG	
2	4874 1400	38. 97	5.48	44, 45	74.00	-29.55	Peak	

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



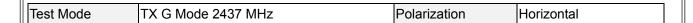


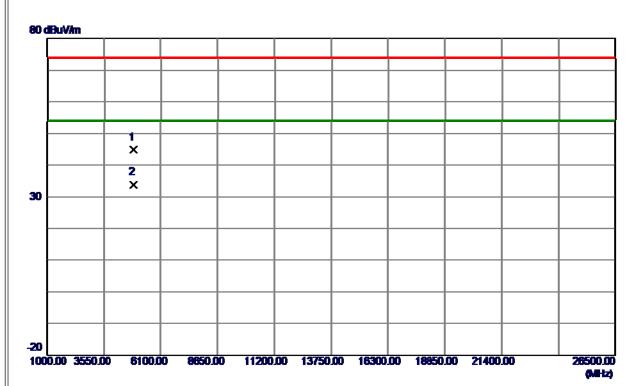


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2430. 0000	85. 52	8. 36	93. 88	54.00	39. 88	AVG	No Limit
2	2430. 3000	94. 29	8. 36	102.65	74. 00	28. 65	Peak	No Limit

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





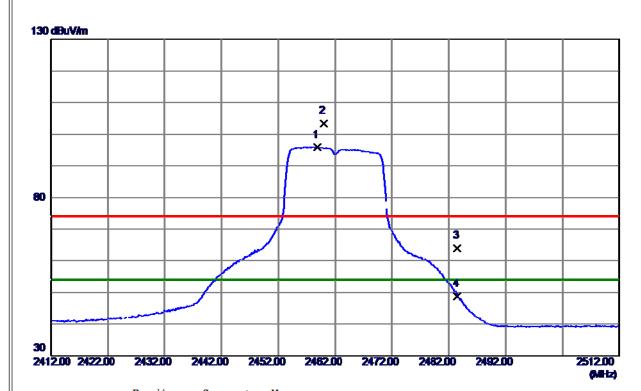


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4876. 8600	39. 28	5. 50	44. 78	74. 00	-29. 22	Peak	
2 *	4877 0700	28 33	5 50	33 83	54 00	-20 17	AVG	

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



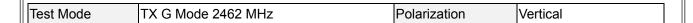


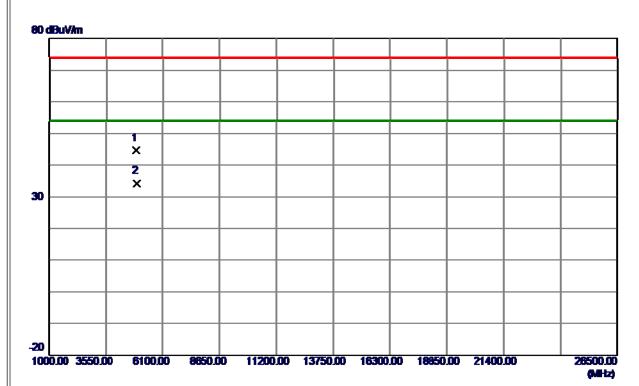


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2458. 8500	87. 38	8. 39	95. 77	54. 00	41. 77	AVG	No Limit
2	2460.0000	94. 97	8. 39	103. 36	74.00	29. 36	Peak	No Limit
3	2483. 5000	55. 56	8. 42	63. 98	74.00	-10.02	Peak	
4	2483. 5000	40. 46	8. 42	48. 88	54. 00	-5. 12	AVG	

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





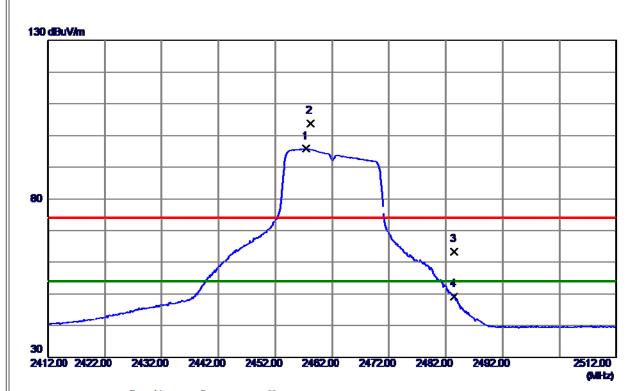


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4919. 2150	38. 91	5. 71	44. 62	74. 00	-29. 38	Peak	
2 *	4926, 6500	28. 45	5. 75	34, 20	54.00	-19.80	AVG	

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



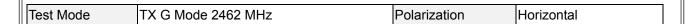


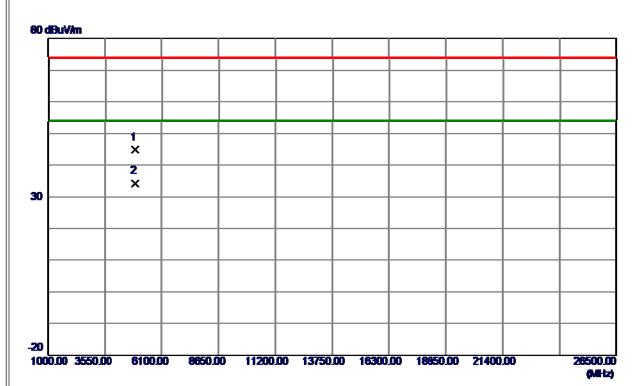


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2457. 5000	87. 37	8. 39	95. 76	54. 00	41. 76	AVG	No Limit
2	2458. 2000	95. 33	8. 39	103.72	74.00	29. 72	Peak	No Limit
3	2483. 5000	54. 91	8. 42	63. 33	74.00	-10.6 7	Peak	
4	2483. 5000	40. 74	8. 42	49 . 16	54. 00	-4.84	AVG	

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





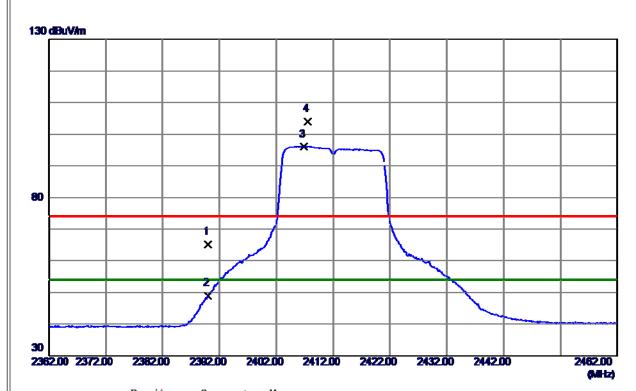


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4919. 7000	39. 15	5. 71	44. 86	74. 00	-29. 14	Peak	
2 *	4919, 9100	28, 42	5. 71	34, 13	54, 00	-19, 87	AVG	

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



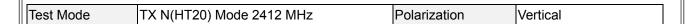


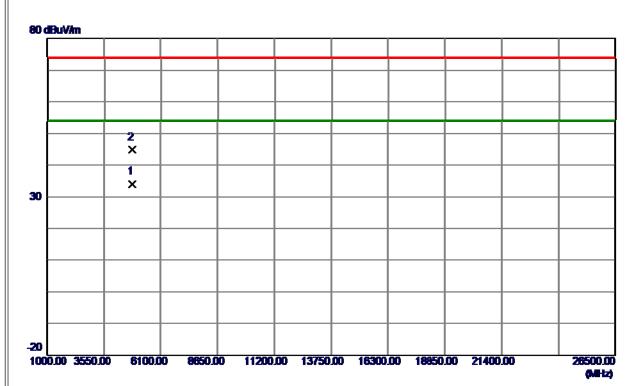


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	56. 97	8. 31	65. 28	74.00	-8. 72	Peak	
2	2390. 0000	40.65	8. 31	48. 96	54. 00	-5. 04	AVG	
3 *	2406. 9000	87. 71	8. 33	96. 04	54.00	42.04	AVG	No Limit
4	2407. 6000	95. 67	8. 33	104.00	74. 00	30. 00	Peak	No Limit

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





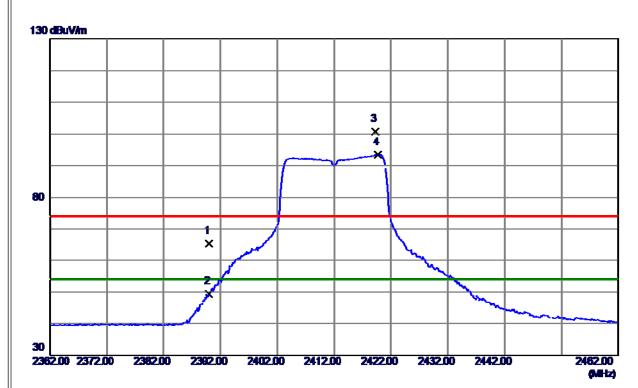


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4819. 9100	28. 82	5. 21	34. 03	54. 00	-19.9 7	AVG	
2	4825 8100	39 62	5 24	44 86	74 00	-29 14	Peak	

- (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. 05	8. 31	65. 36	74.00	-8. 64	Peak	
2	2390. 0000	41.07	8. 31	49. 38	54.00	-4.62	AVG	
3	2419. 2000	92. 41	8. 34	100.75	74.00	26. 75	Peak	No Limit
4 *	2419. 7000	85. 03	8. 34	93. 37	54. 00	39. 37	AVG	No Limit

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





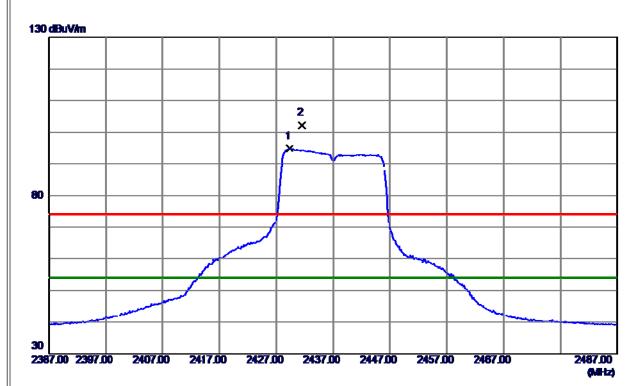


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4821. 3500	39. 31	5. 21	44. 52	74.00	-29. 48	Peak	
2 *	4823, 0150	28, 86	5. 22	34. 08	54, 00	-19.92	AVG	

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





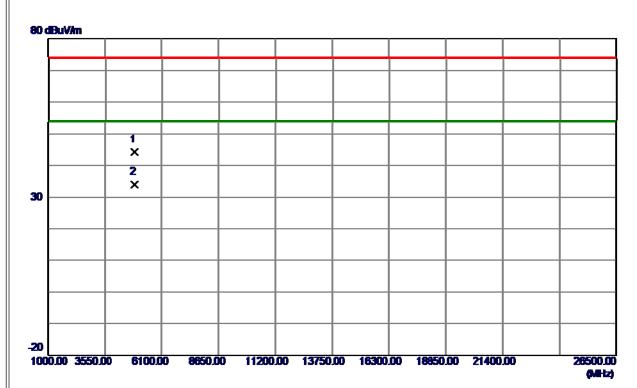


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2429. 3000	86. 36	8. 36	94. 72	54. 00	40. 72	AVG	No Limit
2	2431, 6000	93. 76	8. 36	102, 12	74. 00	28, 12	Peak	No Limit

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





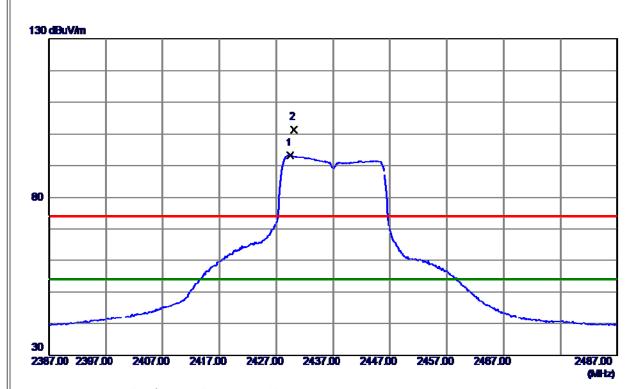


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4872. 0950	38. 76	5. 47	44. 23	74.00	-29. 77	Peak	
2 *	4877, 4950	28, 55	5. 50	34, 05	54, 00	-19.95	AVG	

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





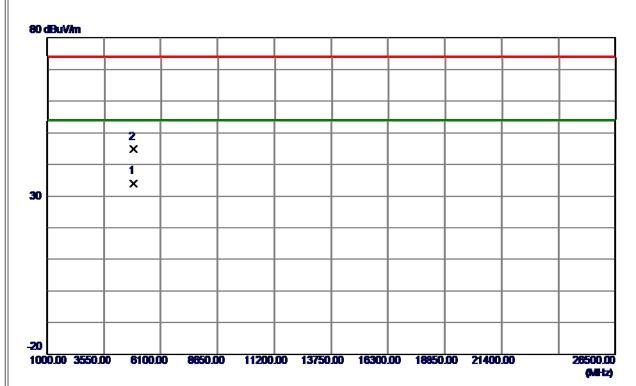


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2429. 4000	84. 89	8. 36	93. 25	54. 00	39. 25	AVG	No Limit
2	2430 1000	93 10	8 36	101 46	74 00	27 46	Peak	No Limit

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





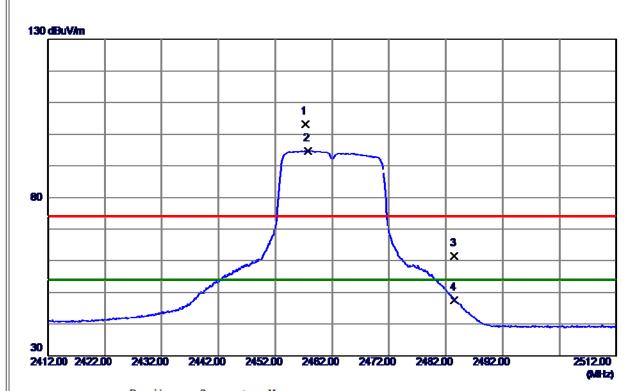


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4875. 6050	28. 55	5. 49	34. 04	54. 00	-19. 96	AVG	
2	4876, 0000	39. 32	5. 49	44, 81	74.00	-29. 19	Peak	

- (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	2457. 3000	94. 79	8. 39	103. 18	74.00	29. 18	Peak	No Limit
2 *	2457. 8000	86. 31	8. 39	94. 70	54. 00	40.70	AVG	No Limit
3	2483. 5000	53. 14	8. 42	61. 56	74.00	-12. 44	Peak	
4	2483. 5000	39. 13	8. 42	47. 55	54. 00	-6. 45	AVG	

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





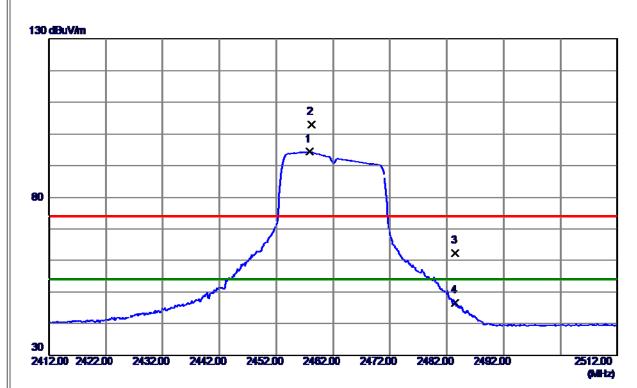


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924. 9100	38. 86	5. 74	44. 60	74.00	-29. 40	Peak	
2 *	4928, 5600	28. 56	5. 76	34, 32	54.00	-19, 68	AVG	

- (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 *	2457. 9000	85. 95	8. 39	94. 34	54.00	40. 34	AVG	No Limit
2	2458. 2000	94. 52	8. 39	102.91	74.00	28. 91	Peak	No Limit
3	2483. 5000	53. 93	8. 42	62. 35	74.00	-11.65	Peak	
4	2483. 5000	38. 24	8. 42	46. 66	54. 00	-7. 34	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. 1000	28. 45	5. 74	34 . 19	54.00	-19. 81	AVG	
2	4925, 6250	38, 46	5. 74	44. 20	74. 00	-29, 80	Peak	

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

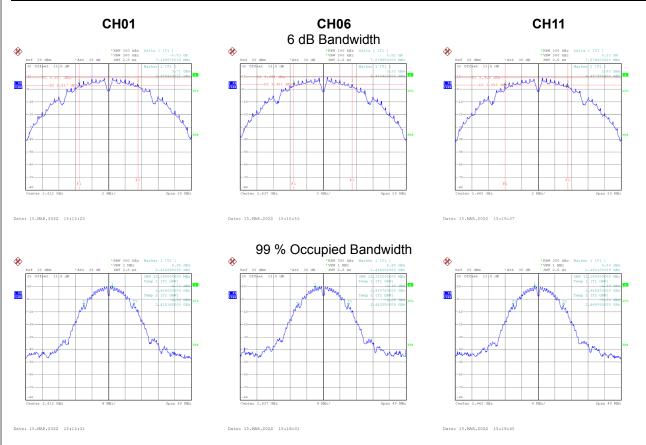


APPENDIX E - BANDWIDTH	



Test Mode	TX B Mode
103t Wood	I A D MOGC

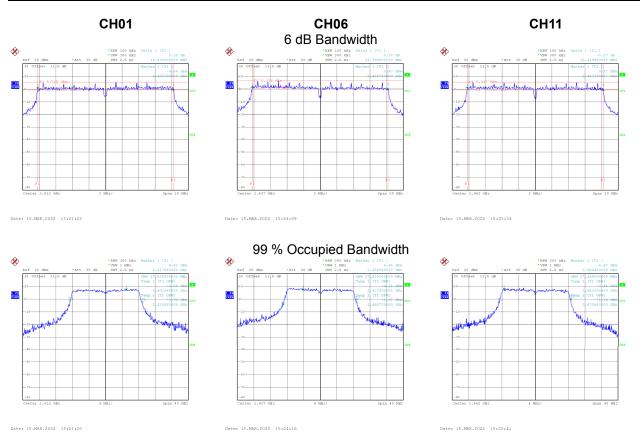
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	7.150	12.160	0.5	Complies
06	2437	7.080	12.320	0.5	Complies
11	2462	7.580	12.160	0.5	Complies





Test Mode	TX G Mode
100t Wood	I A O IVIOGO

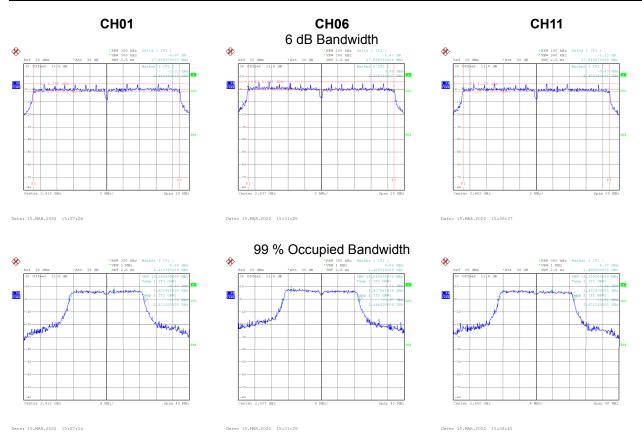
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.430	17.520	0.5	Complies
06	2437	16.400	17.920	0.5	Complies
11	2462	16.420	17.440	0.5	Complies





Test Mode	TX N(HT20) Mode
rest wode	1 \(\(\pi\)\(\pi\)\(\pi\)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.660	18.240	0.5	Complies
06	2437	17.600	18.640	0.5	Complies
11	2462	17.620	18.320	0.5	Complies





APPENDIX F - MAXIMUM OUTPUT POWER



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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.34	0.11	17.45	30.00	1.0000	Complies
06	2437	17.16	0.11	17.27	30.00	1.0000	Complies
11	2462	17.36	0.11	17.47	30.00	1.0000	Complies

Test Mode T	X G 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	15.73	0.59	16.32	30.00	1.0000	Complies
06	2437	16.05	0.59	16.64	30.00	1.0000	Complies
11	2462	16.11	0.59	16.70	30.00	1.0000	Complies

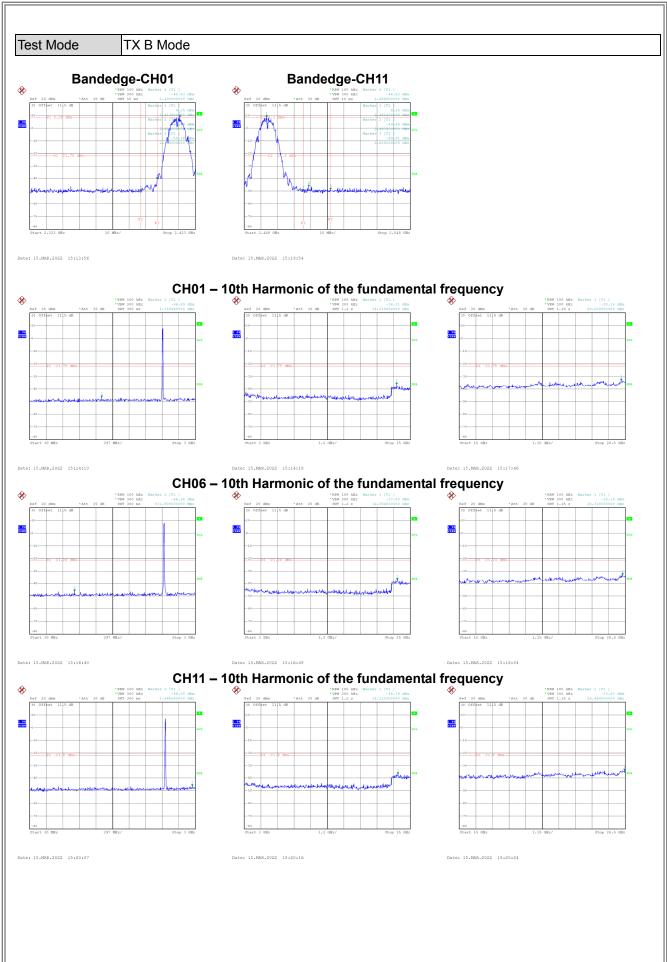
Test Mode	TX N(HT20) Mode	
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.27	0.60	15.87	30.00	1.0000	Complies
06	2437	15.07	0.60	15.67	30.00	1.0000	Complies
11	2462	15.15	0.60	15.75	30.00	1.0000	Complies

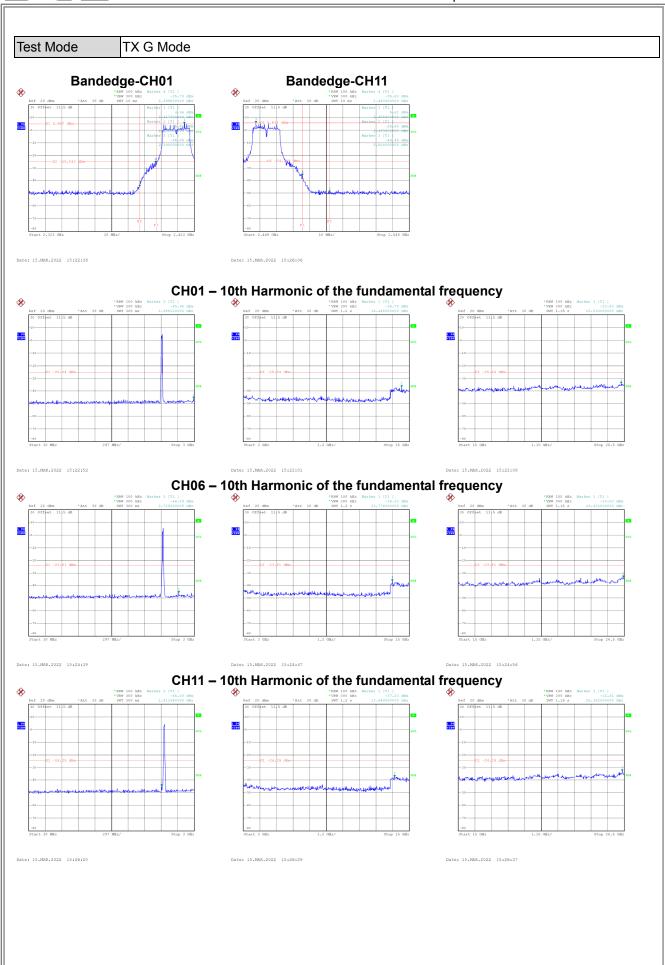


APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

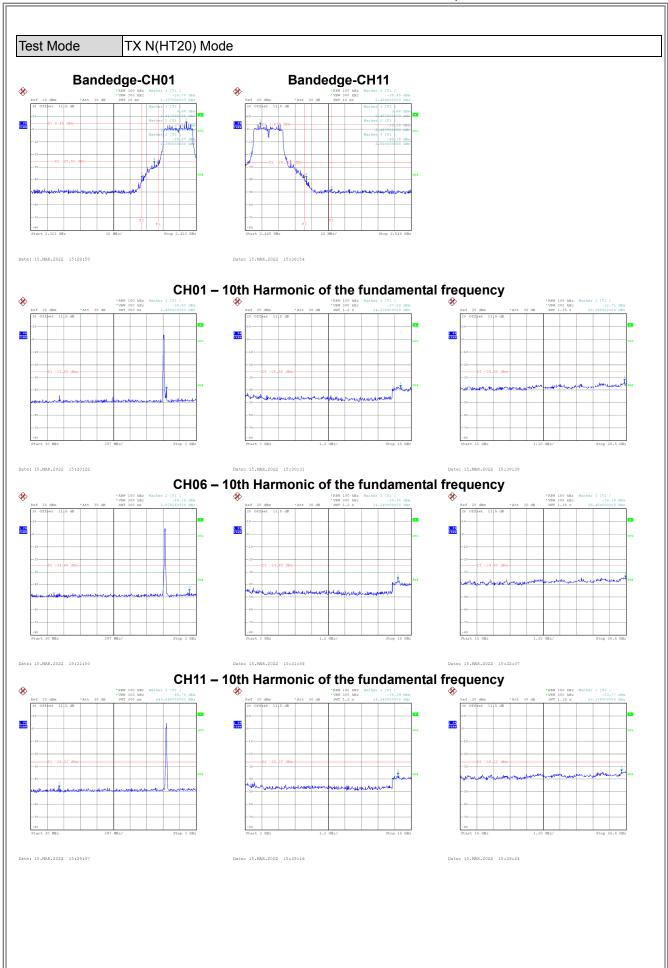




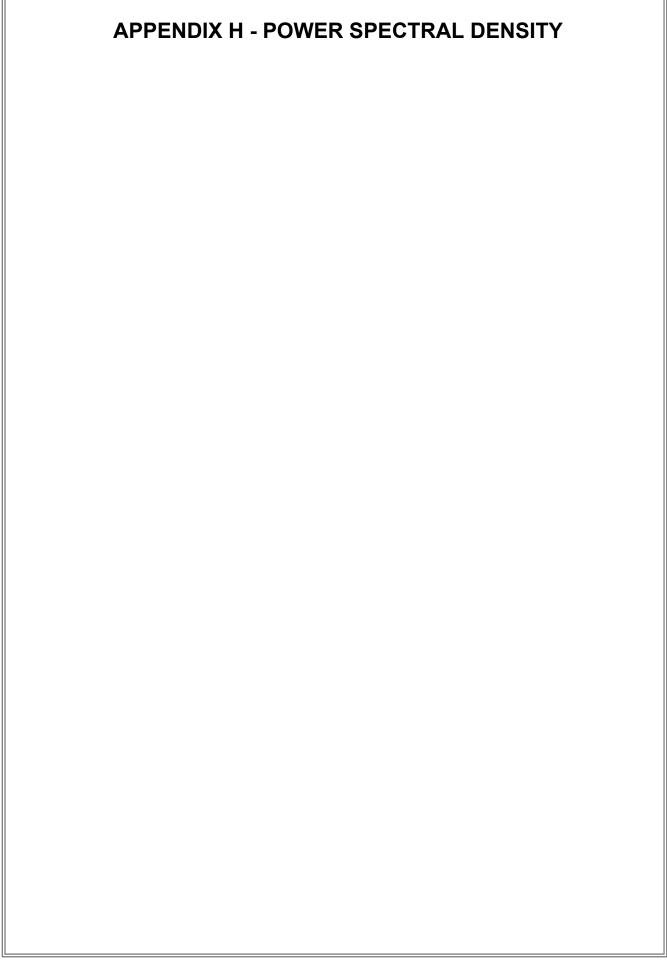














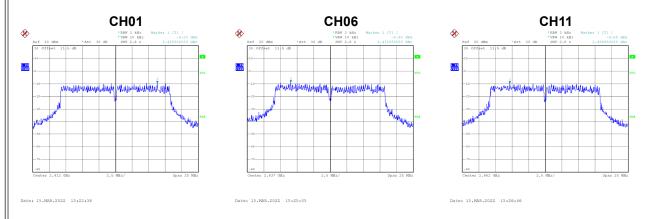
Test Mode	TX B Mode
100t Wood	I I N D IVIOGO

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-5.78	8.00	Complies
06	2437	-5.18	8.00	Complies
11	2462	-5.25	8.00	Complies



Test Mode	TX G Mode	
rest iviode	TX G Mode	

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-9.23	8.00	Complies
06	2437	-8.82	8.00	Complies
11	2462	-9.55	8.00	Complies





Ш		
Ш	Test Mode	TX N(HT20) Mode
Ш	I COL IVIOUC	

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-10.24	8.00	Complies
06	2437	-9.38	8.00	Complies
11	2462	-10.86	8.00	Complies

