



FCC Radio Test Report

FCC ID: 2AXJ4WN822NV6

This report concerns: Original Grant

Project No. 2108C217

Equipment 300Mbps High Gain Wireless USB Adapter

Brand Name tp-link

TL-WN822N Test Model

Series Model N/A

Applicant **TP-Link Corporation Limited**

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Tsim Sha Tsui, Kowloon, Hong Kong

Manufacturer : TP-Link Corporation Limited

Address : Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road,

Tsim Sha Tsui, Kowloon, Hong Kong

Aug. 30, 2021 **Date of Receipt**

Date of Test Sep. 02, 2021 ~ Dec. 21, 2021

Issued Date : Dec. 29, 2021

Report Version : R00

Test Sample : Engineering Sample No.: DG2021083032 for conducted,

DG2021083033 for radiated.

: FCC CFR Title 47, Part 15, Subpart C Standard(s)

> FCC KDB 558074 D01 15.247 Meas Guidance v05r02 FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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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Declaration

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

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

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Dec. 29, 2021



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 Average 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, 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	G-CB03 CISPR	1GHz ~ 6GHz	3.80
(3m)	CIOPK	6GHz ~ 18GHz	4.82

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03	B03 CISPR	18 ~ 26.5 GHz	3.62
(1m)	CISER	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	22°C	53%	AC 120V/60Hz	Aries Tang
Radiated Emissions-9kHz to 30 MHz	18°C	50%	DC 5V	Torocat Yuang
Radiated Emissions-30MHz to 1000MHz	20°C	51%	DC 5V	Jakyri Wen
Radiated Emissions-Above 1000MHz	26°C	52%	DC 5V	Jakyri Wen
Bandwidth	21°C	63%	DC 5V	Longdage Feng
Maximum Average Output Power	22°C	47%	DC 5V	Ansel Yang
Conducted Spurious Emissions	21°C	63%	DC 5V	Longdage Feng
Power Spectral Density	21°C	63%	DC 5V	Longdage Feng



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	300Mbps High Gain Wireless USB Adapter
Brand Name	tp-link
Test Model	TL-WN822N
Series Model	N/A
Model Difference(s)	N/A
Power Source	Supplied from USB port.
Power Rating	DC 5V
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 300 Mbps
Maximum Average Output Power	IEEE 802.11b: 21.67 dBm (0.1469 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) CH03 - CH09 for IEEE 802.11n(HT40)							
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:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	tp-link	3101500245	Dipole	Weld	2.25
2	tp-link	3101500245	Dipole	Weld	2.25

Note:

- 1) This EUT supports CDD, and all antennas have the same gain, Directional gain = G_{ANT} +Array Gain. For power measurements, Array Gain=0dB ($N_{ANT} \le 4$), so the Directional gain=2.25. For power spectral density measurements, N_{ANT} =2, N_{SS} = 1.
 - So the Directional gain=G_{ANT}+Array Gain=G_{ANT}+10log(N_{ANT}/ N_{SS})dBi=2.25+10log(2/1)dBi=5.26.
- 2) The antenna gain is provided by the manufacturer.

4. Table for Antenna Configuration:

district to the first of the guidance in					
Operating Mode TX Mode	1TX	2TX			
IEEE 802.11b	V (Ant. 1)	-			
IEEE 802.11g	V (Ant. 1)	-			
IEEE 802.11n(HT20)	-	V (Ant. 1+Ant. 2)			
IEEE 802.11n(HT40)	-	V (Ant. 1+Ant. 2)			



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 N(HT40) Mode Channel 03/06/09	
Mode 5	TX B Mode Channel 06	
Mode 6	TX B Mode Channel 01/02/06/10/11	
Mode 7	TX G Mode Channel 01/02/06/10/11	
Mode 8	TX N(HT20) Mode Channel 01/02/06/10/11	
Mode 9	TX N(HT40) Mode Channel 03/04/06/08/09	

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 5	TX B Mode Channel 06			

Radiated emissions test - Below 1GHz				
Final Test Mode	Description			
Mode 5	TX B Mode Channel 06			

Radiated emissions test- Above 1GHz				
Final Test Mode Description				
Mode 6 TX B Mode Channel 01/02/06/10/11				
Mode 7	TX G Mode Channel 01/02/06/10/11			
Mode 8	Mode 8 TX N(HT20) Mode Channel 01/02/06/10/11			
Mode 9 TX N(HT40) Mode Channel 03/04/06/08/09				



Conducted test				
Final Test Mode	Description			
Mode 1	TX B Mode Channel 01/06/11			
Mode 2 TX G Mode Channel 01/06/11				
Mode 3 TX N(HT20) Mode Channel 01/06/11				
Mode 4 TX N(HT40) Mode Channel 03/06/09				

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

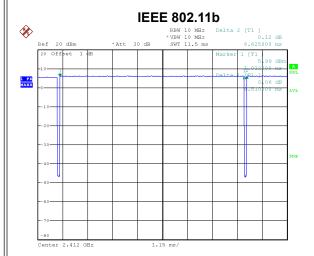
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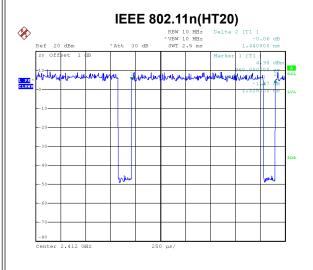
2.4 DUTY CYCLE

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.



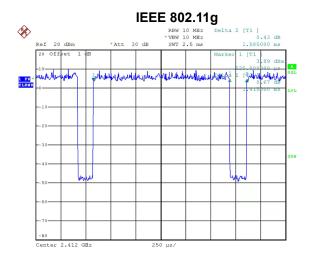
Date: 3.SEP.2021 10:18:06

Duty cycle = 8.510 ms / 8.625 ms = 98.67% Duty Factor = 10 log(1/Duty cycle) = 0.00



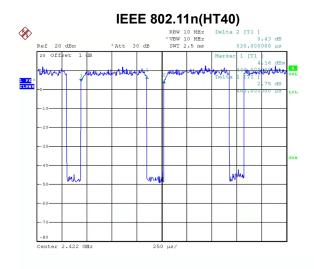
Date: 3.SEP.2021 10:18:50

Duty cycle = 1.325 ms / 1.440 ms = 92.01% Duty Factor = 10 log(1/Duty cycle) = 0.36



Date: 3.SEP.2021 10:18:33

Duty cycle = 1.415 ms / 1.585 ms = 89.27% Duty Factor = 10 log(1/Duty cycle) = 0.49



Date: 3.SEP.2021 10:19:07

Duty cycle = 0.660 ms / 0.830 ms = 79.52% Duty Factor = 10 log(1/Duty cycle) = 1.00





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 707 Hz.

For IEEE 802.11n(HT20):

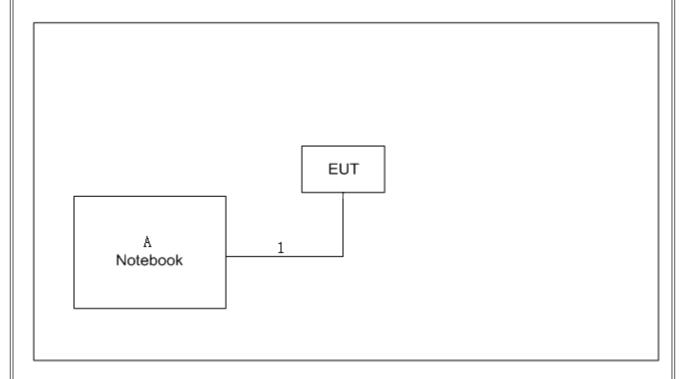
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 755 Hz.

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1515 Hz.



2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
Α	Notebook	Lenovo	Pro 13	N/A

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



3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

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

NOTE

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

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:

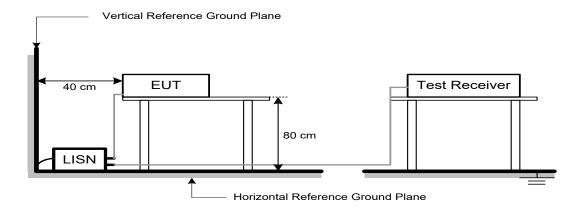
Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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

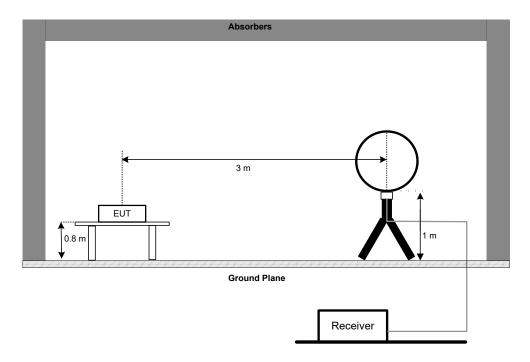


4.3 DEVIATION FROM TEST STANDARD

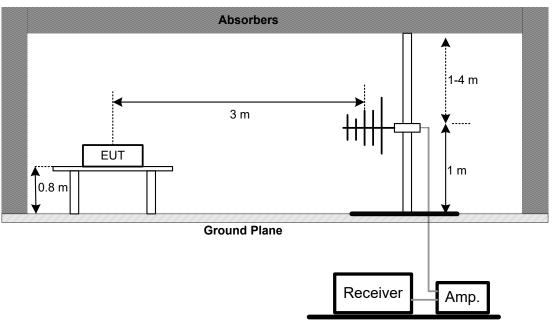
No deviation.

4.4 TEST SETUP

9 kHz to 30 MHz

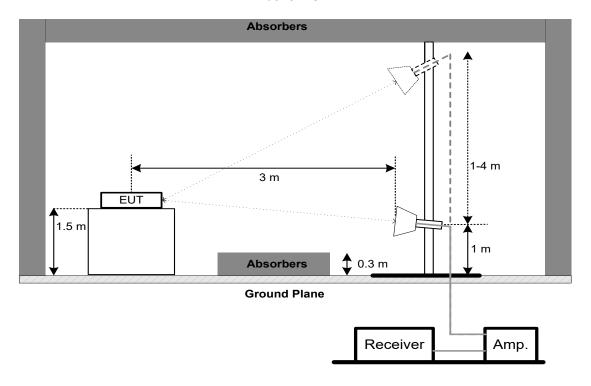


30 MHz to 1 GHz





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
	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 AVERAGE OUTPUT POWER

6.1 LIMIT

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

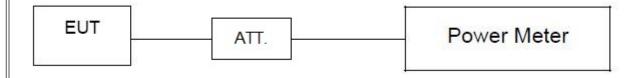
6.2 TEST PROCEDURE

- 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 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

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:

For Reference Level:

TOT TROIGIONIOU EUVOI.		
Spectrum Parameters	Setting	
Span Frequency	≥ 1.5 times the bandwidth.	
RBW	100 kHz	
VBW	300 kHz	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

For Emission Level:

T OF ETHIOSION ECVOL	
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	1.5 times the DTS bandwidth
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	Feb. 28, 2022			
2	LISN	EMCO	3816/2	52765	Feb. 27, 2022			
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Feb. 27, 2022			
4	50Ω Terminator	50Ω Terminator SHX TF5-3		15041305	Feb. 27, 2022			
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A			
6	Cable	N/A	A RG223 12r		Mar. 09, 2022			
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	Feb. 27, 2022				
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 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. 15, 2022			
2	Amplifier	HP	8447D	2944A08742	Feb. 28, 2022			
3	Cable	emci LMR-400		N/A	Nov. 30, 2022			
4	Controller	CT SC100		N/A	N/A			
5	Controller	Controller MF MF-7802		MF780208416	N/A			
6	Receiver	Receiver Agilent N9038A MY52130039		MY52130039	Mar. 19, 2022			
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-7802	MF780208416	N/A			
6	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022			
7	EXA Spectrum Analyzer	Keysight	N9010A	MY56480488	Feb. 28, 2022			
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	Cable Talent microwave		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	m Kind of Equipment Manufacturer Type No. Serial No. Calibrated u						
1	Spectrum Analyzer	R&S	FSP40	100185	Jul. 10, 2022		
2	2 Attenuator WOKEN 6SM3502 VAS1214NL Feb. 07, 20						
3	RF Cable	Tongkaichuan	N/A	N/A	N/A		
4	DC Block	Mini	N/A	N/A	N/A		

	Maximum Average Output Power							
Item	em Kind of Equipment Manufacturer Type No. Serial No. Calibrated							
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	Feb. 07, 2022			
4	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



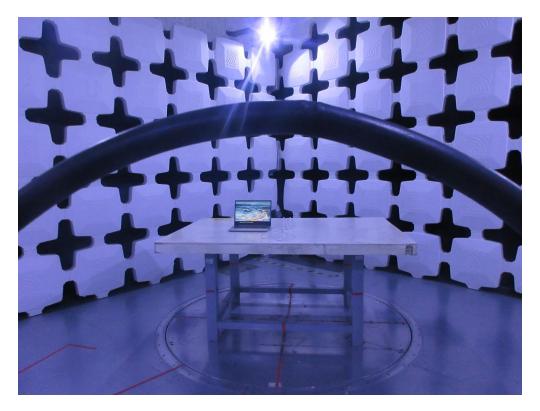


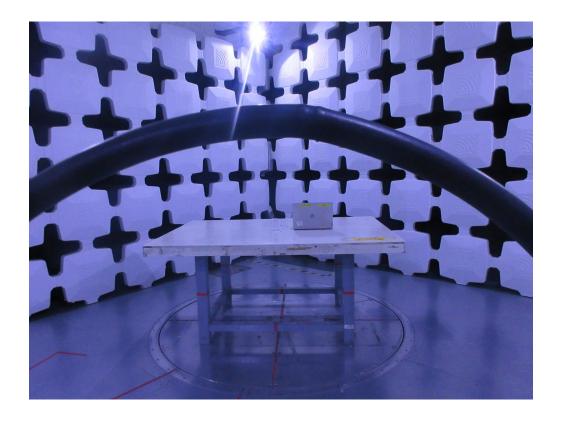




Radiated Emissions Test Photos

9 kHz to 30 MHz







Radiated Emissions Test Photos

30 MHz to 1 GHz







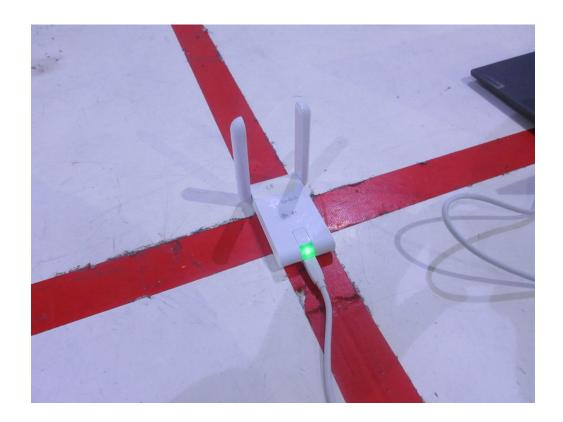
Radiated Emissions Test Photos

Above 1 GHz









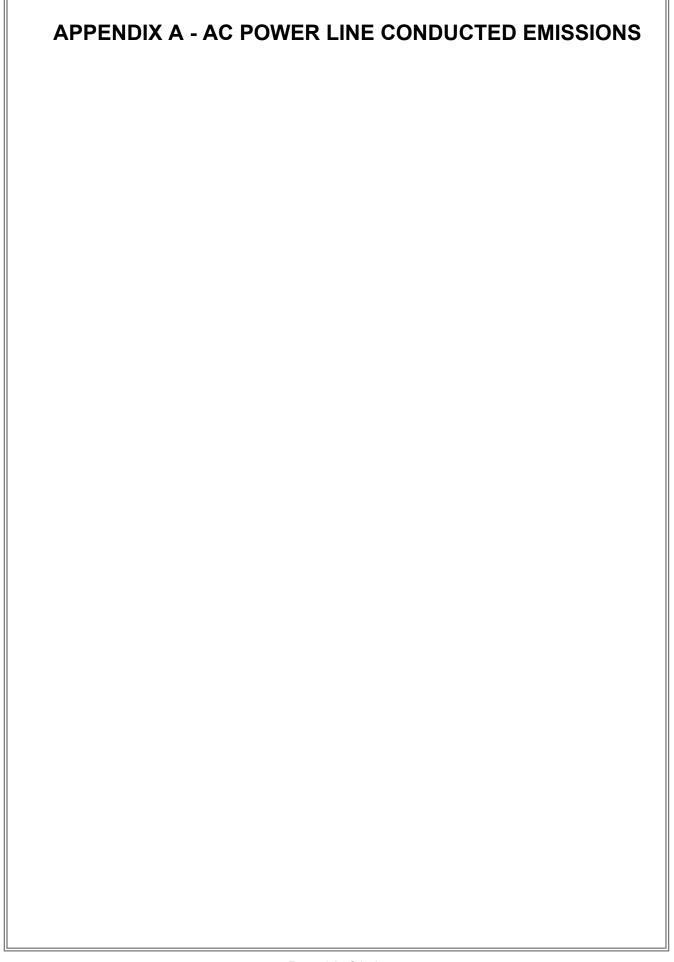


Conducted Test Photos



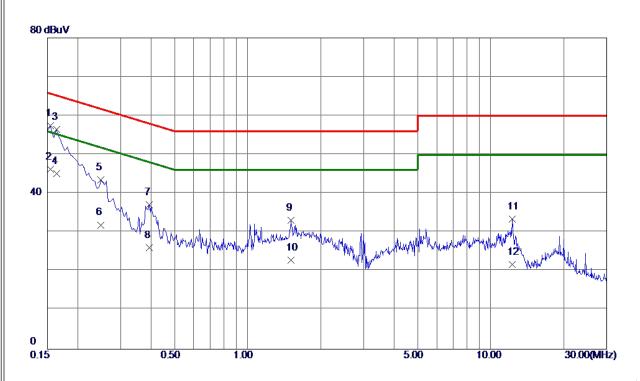












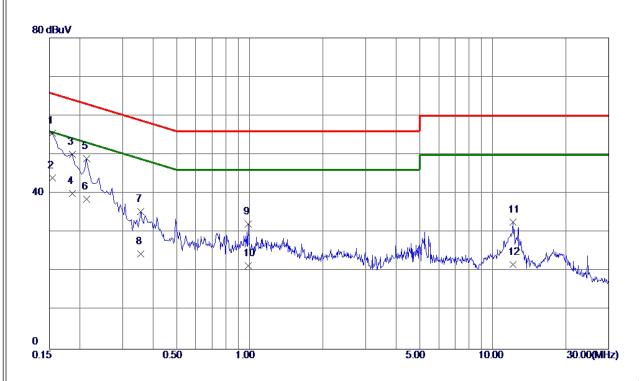
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1545	47. 72	9. 78	57. 50	65. 75	-8. 25	QP	
2	0. 1545	36. 50	9. 78	46. 28	55. 75	-9. 47	AVG	
3	0. 1635	46. 69	9. 79	56. 48	65. 28	-8. 80	QP	
4	0. 1635	35. 40	9. 79	45. 19	55. 28	-10.09	AVG	
5	0. 2490	33. 69	9.82	43. 51	61. 79	-18. 28	QP	
6	0. 2490	22. 10	9.82	31. 92	51. 79	-19.87	AVG	
7	0.3930	27. 21	9. 85	37. 06	58.00	-20.94	QP	
8	0. 3930	16. 21	9.85	26. 06	48.00	-21. 94	AVG	
9	1. 5090	22. 95	10. 12	33. 07	56.00	-22. 93	QP	
10	1. 5090	12. 70	10. 12	22. 82	46.00	-23. 18	AVG	
11	12. 2729	22. 95	10. 49	33. 44	60.00	-26. 56	QP	
12	12. 2729	11. 30	10. 49	21. 79	50.00	-28. 21	AVG	

REMARKS:

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





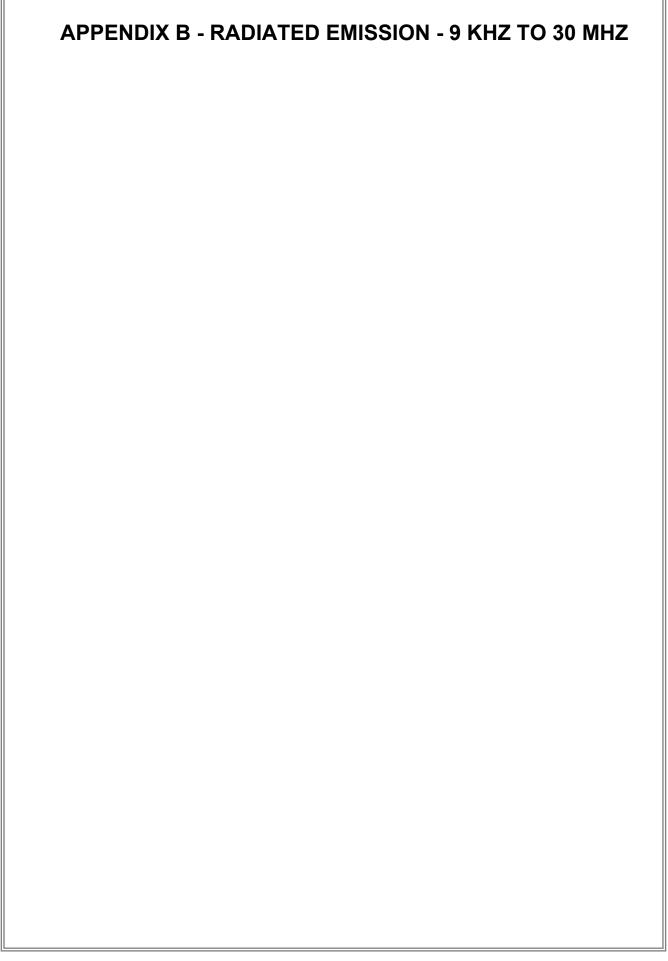


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1545	45. 73	9.82	55. 55	65. 75	-10. 20	QP	
2	0. 1545	34. 20	9.82	44. 0 2	55. 75	-11. 73	AVG	
3	0. 1860	40. 32	9.84	50. 16	64. 21	-14. 05	QP	
4	0. 1860	30. 10	9. 84	39. 94	54 . 21	-14. 27	AVG	
5	0. 2130	39. 10	9. 85	48. 95	63.09	-14. 14	QP	
6	0. 2130	28. 70	9. 85	38. 55	53. 09	-14. 54	AVG	
7	0. 3570	25. 39	9. 91	35. 30	58. 80	-23. 50	QP	
8	0. 3570	14. 60	9. 91	24. 51	48. 80	-24. 29	AVG	
9	0. 9870	22. 13	10. 10	32. 23	56. 00	-23. 77	QP	
10	0. 9870	11. 31	10. 10	21. 41	46.00	-24. 59	AVG	
11	12. 1290	22. 12	10. 56	32. 68	60.00	-27. 32	QP	
12	12. 1290	11. 20	10. 56	21. 76	50.00	-28. 24	AVG	

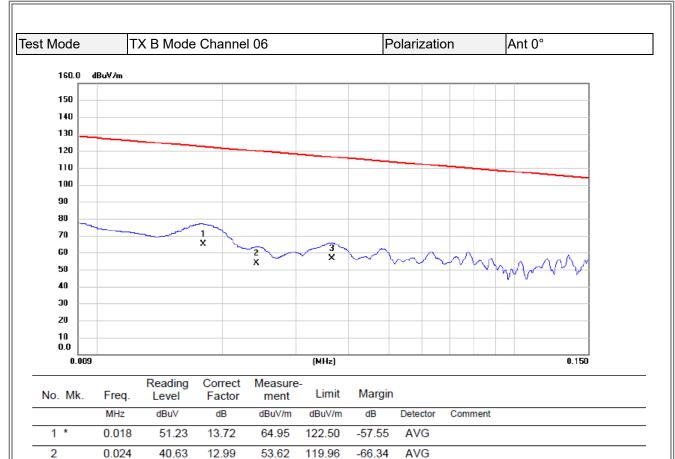
REMARKS:

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









3

0.036

43.95

12.66

56.61

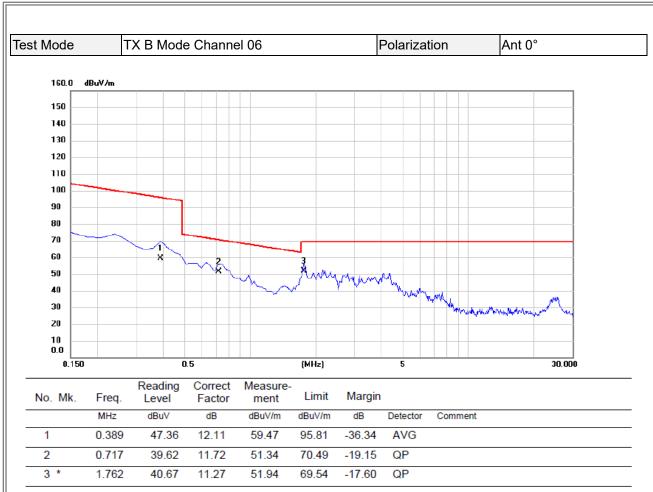
116.36

-59.75

AVG

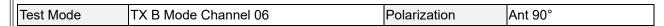
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

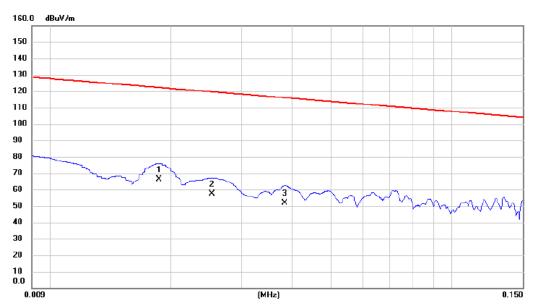




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



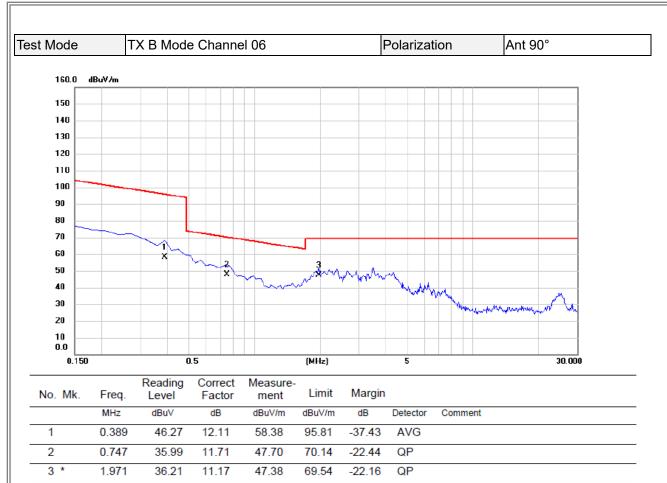




No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.019	52.58	13.50	66.08	122.17	-56.09	AVG	
2	0.025	44.34	12.96	57.30	119.54	-62.24	AVG	
3	0.038	39.19	12.61	51.80	115.92	-64.12	AVG	

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



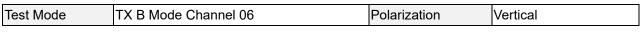


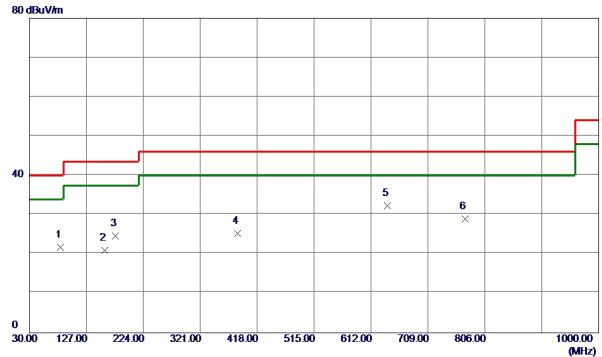
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ







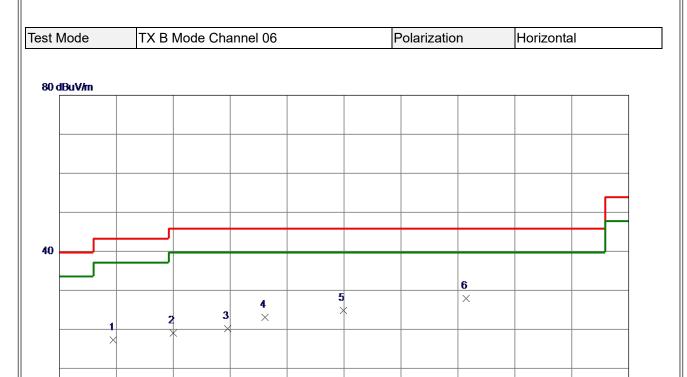
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	82. 3800	40. 24	-18. 52	21. 72	40.00	-18. 28	Peak	
2	158. 0399	33. 37	-12. 42	20. 95	43. 50	-22.55	Peak	
3	176. 4700	37. 93	-13. 26	24. 67	43. 50	-18.83	Peak	
4	385. 0200	34. 34	-9. 13	25. 21	46.00	-20. 79	Peak	
5 *	640. 1300	36. 24	-3. 90	32. 34	46.00	-13. 66	Peak	
6	772. 0500	30. 40	-1. 39	29. 01	46.00	-16. 99	Peak	

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

1000.00

(MHz)





No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	122. 1500	31. 80	-13. 99	17. 81	43. 50	-25. 69	Peak	
2	224. 0000	34. 02	-14. 46	19. 56	46.00	-26. 44	Peak	
3	317. 1200	31. 25	-10. 57	20. 68	46.00	-25. 32	Peak	
4	380. 1700	32. 71	-9. 25	23. 46	46.00	-22. 54	Peak	
5	514. 0300	31. 60	-6. 36	25. 24	46.00	-20. 76	Peak	
6 *	722. 5800	30. 84	-2. 56	28. 28	46.00	-17. 72	Peak	

515.00

612.00

709.00

806.00

REMARKS:

30.00

127.00

224.00

321.00

418.00

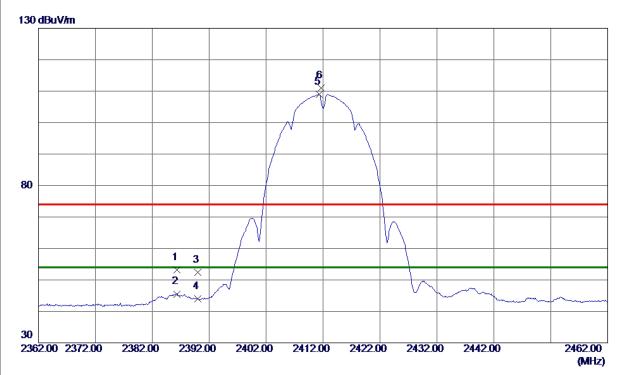
- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ



Test Mode	TX B Mode 2412 MHz	Polarization	Vertical

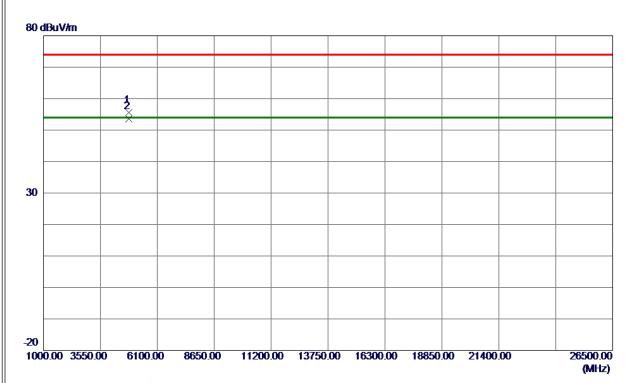


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2386. 3000	44. 87	8. 30	53. 17	74.00	-20.83	Peak	
2	2386. 3000	37. 20	8. 30	45. 50	54.00	-8. 50	AVG	
3	2390. 0000	44. 10	8. 31	52. 41	74.00	-21. 59	Peak	
4	2390. 0000	35. 60	8. 31	43. 91	54.00	-10.09	AVG	
5 *	2411. 3000	100.67	8. 33	109. 00	54.00	55. 00	AVG	No Limit
6	2411. 7000	102.61	8. 33	110. 94	74.00	36. 94	Peak	No Limit

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





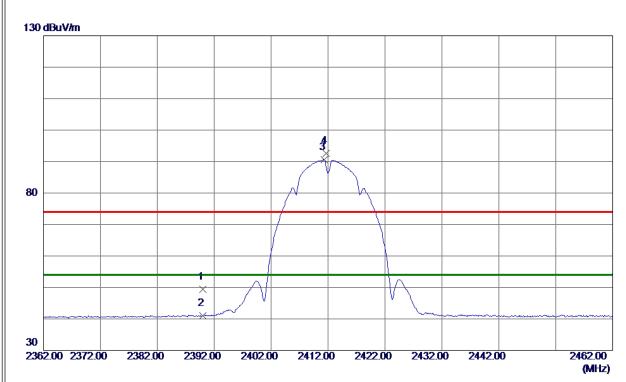


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823. 9480	50. 38	5. 23	55. 61	74.00	-18. 39	Peak	
2 *	4823. 9950	48. 39	5. 23	53. 62	54. 00	-0. 38	AVG	

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





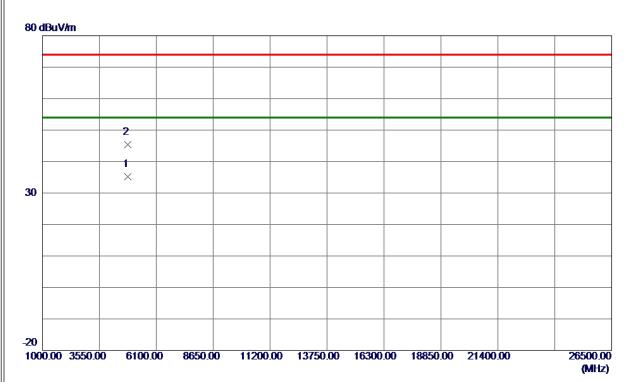


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	41. 14	8. 31	49. 45	74.00	-24. 55	Peak	
2	2390. 0000	32. 60	8. 31	40. 91	54.00	-13. 09	AVG	
3 *	2411. 3000	82. 30	8. 33	90. 63	54.00	36. 63	AVG	No Limit
4	2411. 7000	84. 33	8. 33	92. 66	74.00	18. 66	Peak	No Limit

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





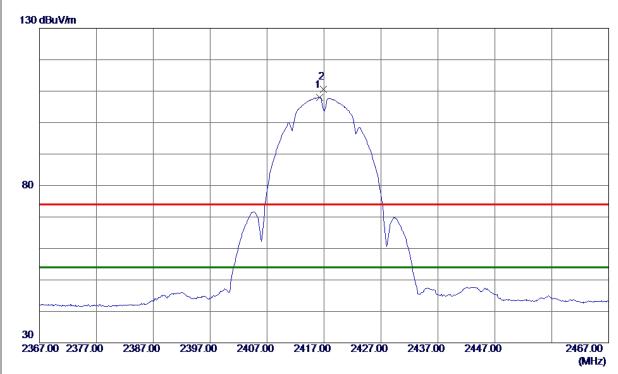


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4824. 0240	29. 90	5. 23	35. 13	54.00	-18. 87	AVG	
2	4824. 2839	40. 17	5. 23	45. 40	74. 00	-28. 60	Peak	

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





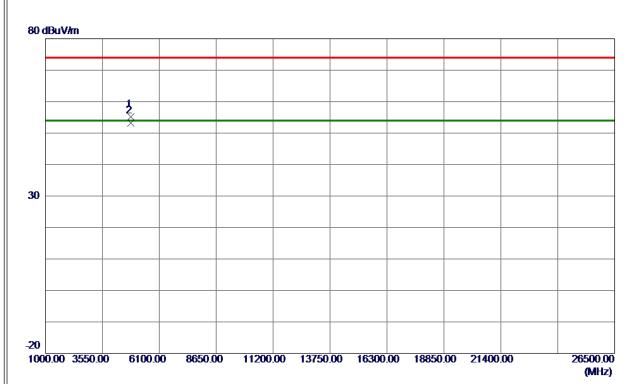


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2416. 2000	99. 75	8. 34	108. 09	54.00	54. 09	AVG	No Limit
2	2416, 9000	102, 25	8. 34	110, 59	74. 00	36, 59	Peak	No Limit

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





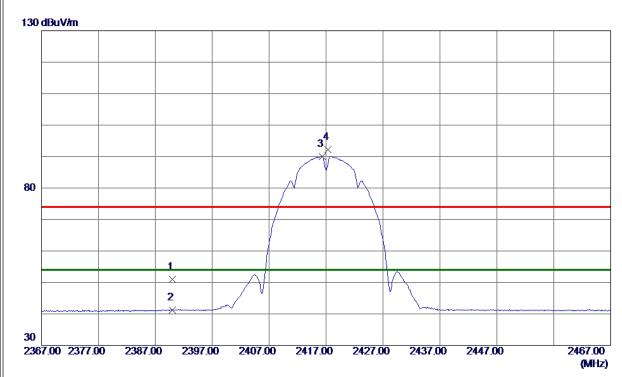


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4833. 9230	49.87	5. 28	55. 15	74.00	-18. 85	Peak	
2 *	4834. 0070	48. 00	5. 28	53. 28	54.00	-0.72	AVG	

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





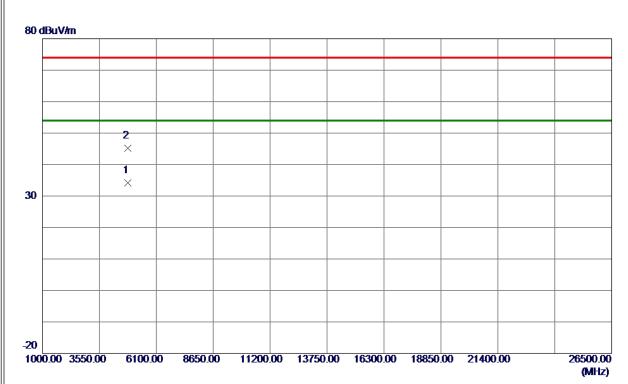


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	42. 73	8. 31	51. 04	74.00	-22. 96	Peak	
2	2390. 0000	32. 95	8. 31	41. 26	54.00	-12. 74	AVG	
3 *	2416. 3000	81. 68	8. 34	90. 02	54.00	36. 02	AVG	No Limit
4	2417. 3000	83. 84	8. 34	92. 18	74.00	18. 18	Peak	No Limit

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





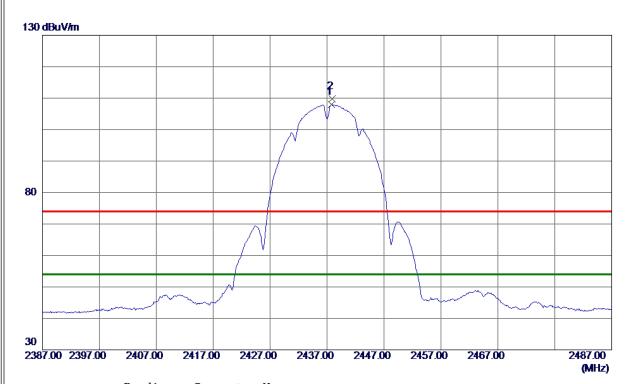


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4834. 0410	28. 96	5. 28	34. 24	54.00	-19. 76	AVG	
2	4834. 0600	39. 88	5. 28	45. 16	74. 00	-28. 84	Peak	

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





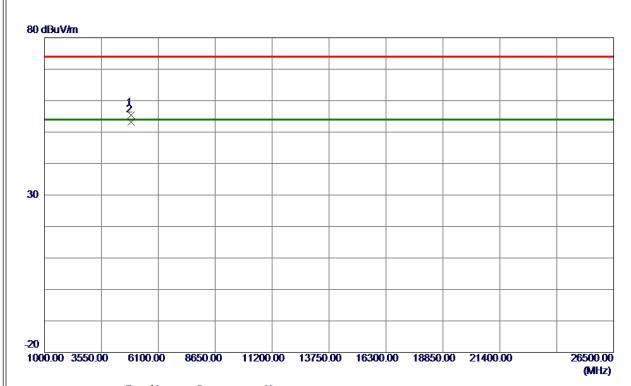


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2437. 8000	99. 60	8. 37	107. 97	54.00	53. 97	AVG	No Limit
2	2437. 9000	101. 51	8. 37	109.88	74.00	35. 88	Peak	No Limit

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





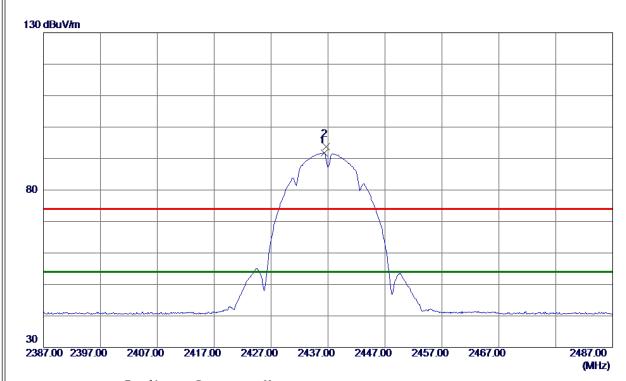


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873. 9850	49. 91	5. 48	55. 39	74.00	-18. 61	Peak	
2 *	4873. 9990	47. 78	5. 48	53. 26	54.00	-0.74	AVG	

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





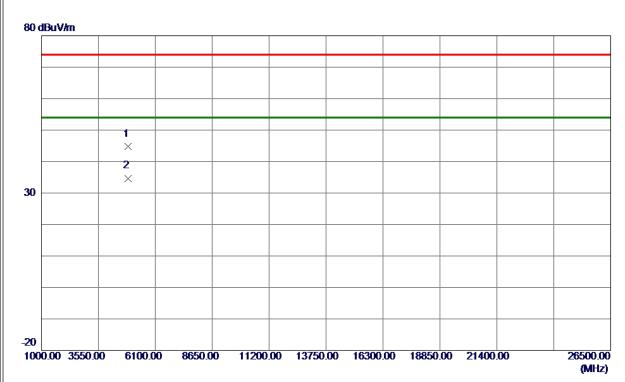


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2436. 3000	83. 41	8. 36	91. 77	54.00	37. 77	AVG	No Limit
2	2436. 7000	85. 45	8. 36	93. 81	74.00	19.81	Peak	No Limit

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





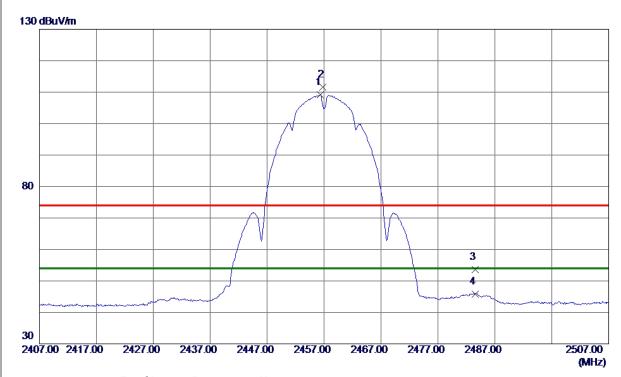


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873. 9400	39. 37	5. 48	44. 85	74.00	-29. 15	Peak	
2 *	4873. 9560	29. 22	5. 48	34. 70	54.00	-19. 30	AVG	

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





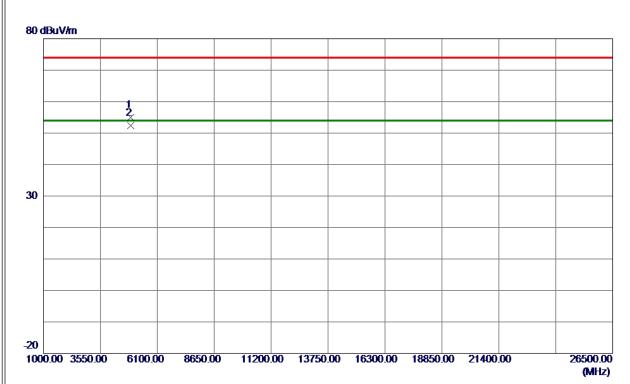


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2456. 3000	100. 76	8. 39	109. 15	54.00	55. 15	AVG	No Limit
2	2456. 8000	103. 19	8. 39	111. 58	74.00	37. 58	Peak	No Limit
3	2483. 5000	45. 20	8. 42	53. 62	74.00	-20. 38	Peak	
4	2483. 5000	37. 31	8. 42	45. 73	54. 00	-8. 27	AVG	

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





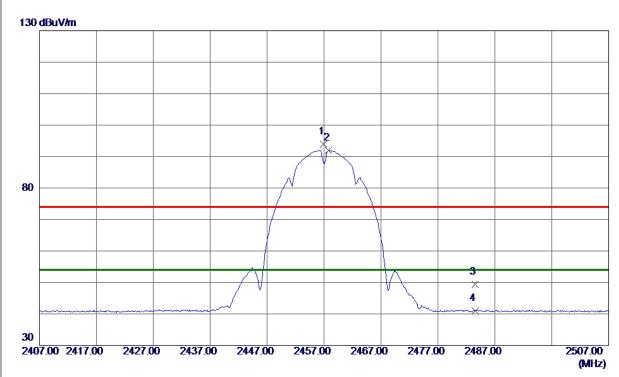


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4913. 9310	49. 39	5. 68	55. 07	74.00	-18. 93	Peak	
2 *	4914. 0170	46. 67	5. 68	52. 35	54. 00	-1. 65	AVG	

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





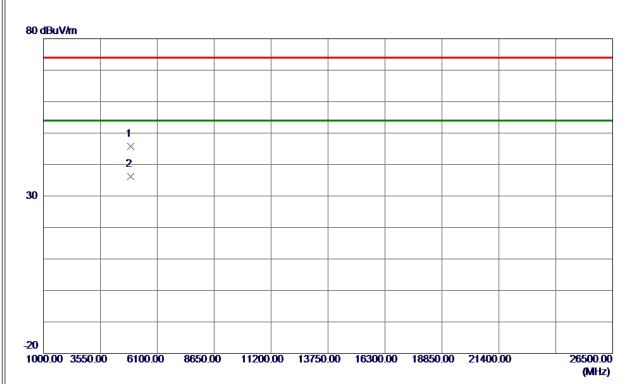


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2456. 9000	85. 65	8. 39	94. 04	74.00	20.04	Peak	No Limit
2 *	2457. 8000	83. 67	8. 39	92. 06	54.00	38. 06	AVG	No Limit
3	2483. 5000	41. 03	8. 42	49. 45	74.00	-24. 55	Peak	
4	2483. 5000	32. 54	8. 42	40. 96	54.00	-13. 04	AVG	

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





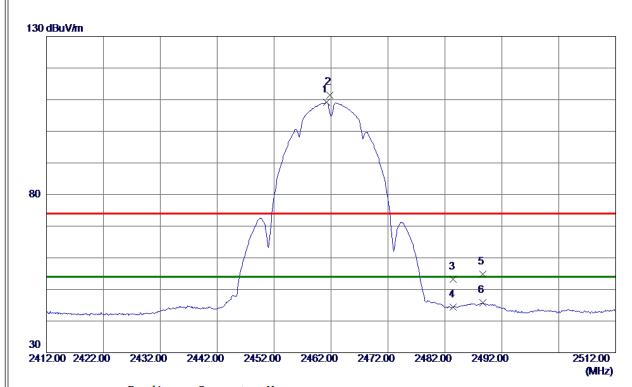


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4913. 3740	40. 19	5. 68	45. 87	74.00	-28. 13	Peak	
2 *	4913. 9860	30. 53	5. 68	36. 21	54. 00	-17. 79	AVG	

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



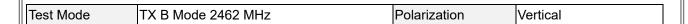


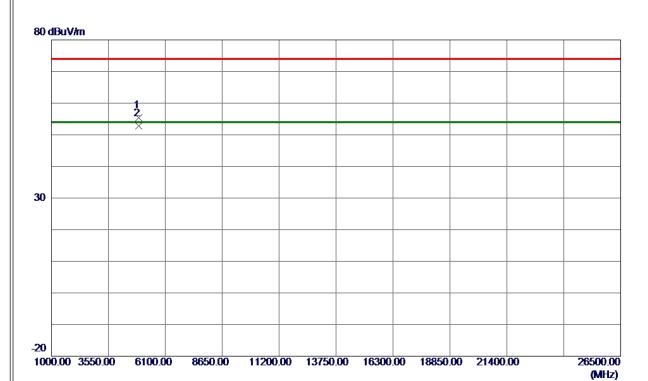


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2461. 2000	100. 73	8. 40	109. 13	54.00	55. 13	AVG	No Limit
2	2461. 8000	103. 10	8. 40	111. 50	74.00	37. 50	Peak	No Limit
3	2483. 5000	44. 82	8. 42	53. 24	74.00	-20. 76	Peak	
4	2483. 5000	36. 03	8. 42	44. 45	54.00	-9. 55	AVG	
5	2488. 7000	46. 45	8. 43	54. 88	74.00	-19. 12	Peak	
6	2488. 7000	37. 29	8. 43	45. 72	54. 00	-8. 28	AVG	

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





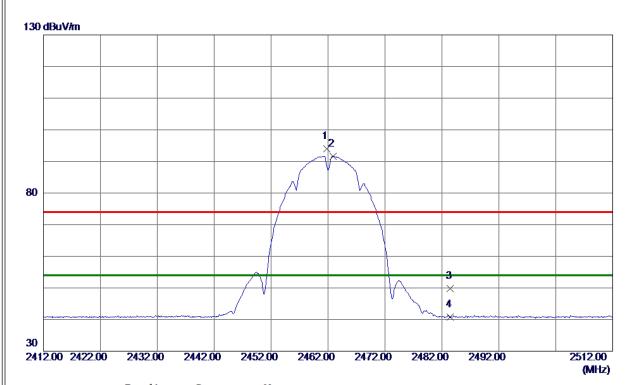


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923. 9590	49. 58	5. 73	55. 31	74.00	-18. 69	Peak	
2 *	4923. 9700	47. 16	5. 73	52. 89	54. 00	-1. 11	AVG	

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



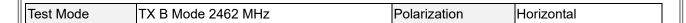


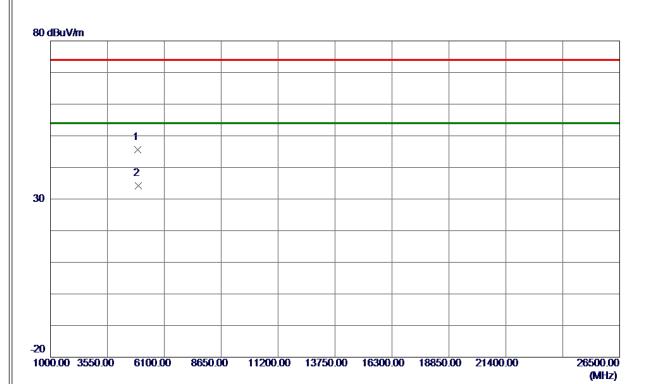


N	o. Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	2461. 800	00 85. 65	8. 40	94. 05	74.00	20.05	Peak	No Limit	
2	* 2462.900	00 83. 29	8. 40	91. 69	54.00	37. 69	AVG	No Limit	
3	2483. 500	00 41.46	8. 42	49.88	74.00	-24. 12	Peak		
4	2483. 500	00 32. 31	8. 42	40. 73	54.00	-13. 27	AVG		

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





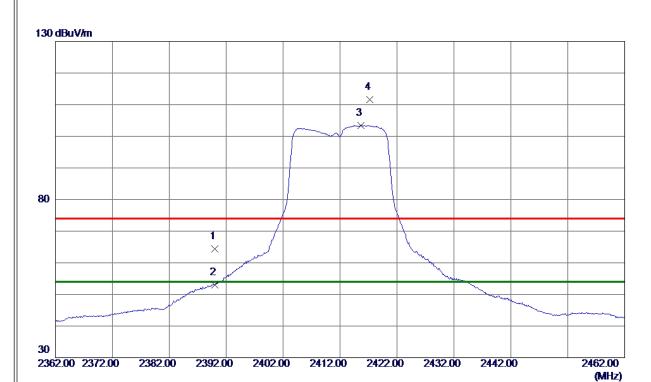


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923. 5150	39. 89	5. 73	45.62	74.00	-28. 38	Peak	
2 *	4924. 8990	28. 38	5. 74	34. 12	54. 00	-19. 88	AVG	

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



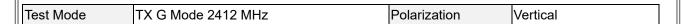


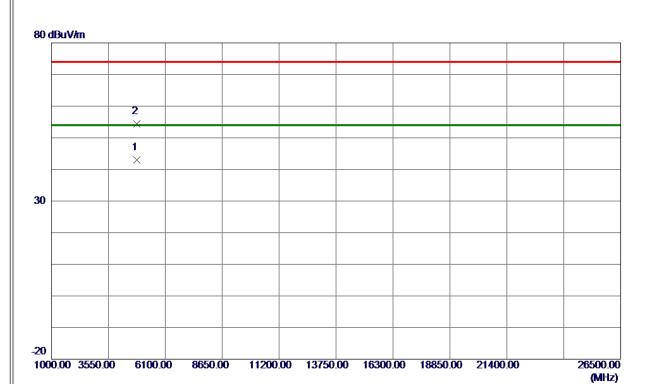


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	56. 04	8. 31	64. 35	74.00	-9. 65	Peak	
2	2390. 0000	44. 74	8. 31	53. 05	54.00	-0. 95	AVG	
3 *	2415. 7000	95. 05	8. 34	103. 39	54.00	49. 39	AVG	No Limit
4	2417. 2000	103. 35	8. 34	111. 69	74.00	37. 69	Peak	No Limit

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





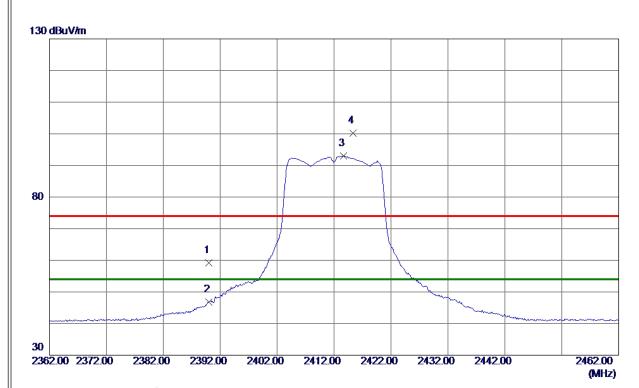


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4820.6400	37. 70	5. 21	42. 91	54.00	-11. 09	AVG	
2	4821. 7000	49. 15	5. 22	54 . 37	74. 00	-19. 63	Peak	

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



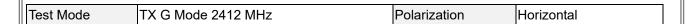


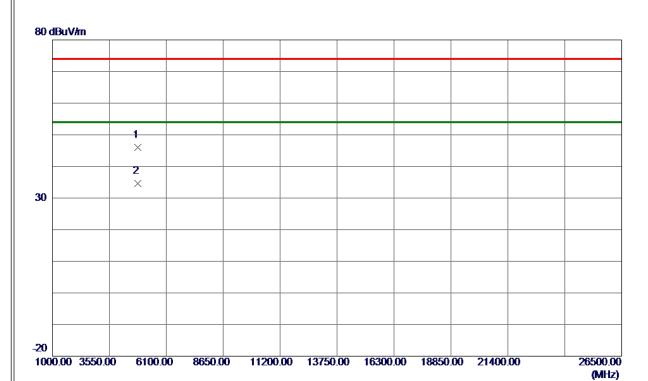


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	50. 86	8. 31	59. 17	74.00	-14. 83	Peak	
2	2390. 0000	38. 44	8. 31	46. 75	54.00	-7. 25	AVG	
3 *	2413. 7000	84. 66	8. 34	93. 00	54.00	39. 00	AVG	No Limit
4	2415. 3000	91.84	8. 34	100. 18	74.00	26. 18	Peak	No Limit

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





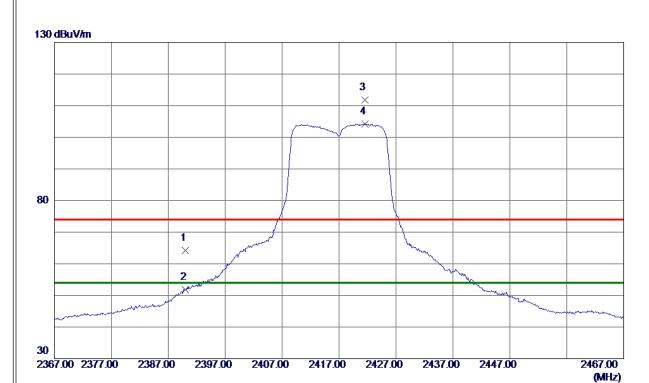


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4817. 2400	40. 74	5. 19	45. 93	74.00	-28.07	Peak	
2 *	4819. 0299	29. 47	5. 20	34. 67	54. 00	-19. 33	AVG	

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





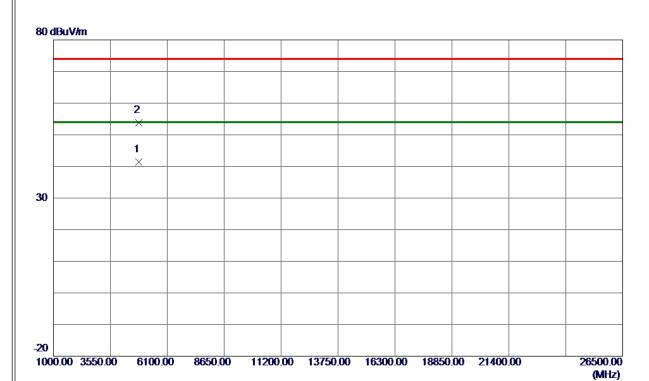


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	55. 86	8. 31	64. 17	74.00	-9.83	Peak	
2	2390. 0000	43. 40	8. 31	51. 71	54.00	-2. 29	AVG	
3	2421. 5000	103. 52	8. 35	111. 87	74.00	37. 87	Peak	No Limit
4 *	2421. 6000	95. 84	8. 35	104. 19	54. 00	50. 19	AVG	No Limit

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





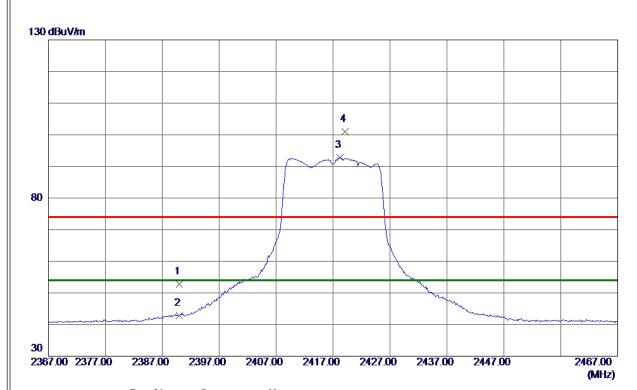


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4830. 2599	36. 21	5. 26	41. 47	54.00	-12. 53	AVG	
2	4831. 4800	48. 53	5. 27	53. 80	74. 00	-20. 20	Peak	

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





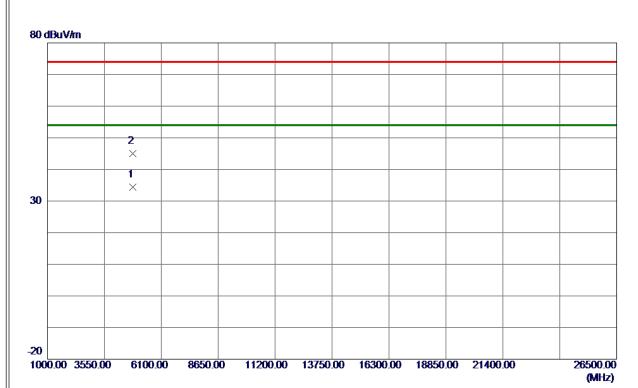


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	44. 55	8. 31	52. 86	74.00	-21. 14	Peak	
2	2390. 0000	34. 50	8. 31	42.81	54.00	-11. 19	AVG	
3 *	2418. 2000	84. 42	8. 34	92. 76	54.00	38. 76	AVG	No Limit
4	2419. 1000	92. 72	8. 34	101. 06	74.00	27. 06	Peak	No Limit

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





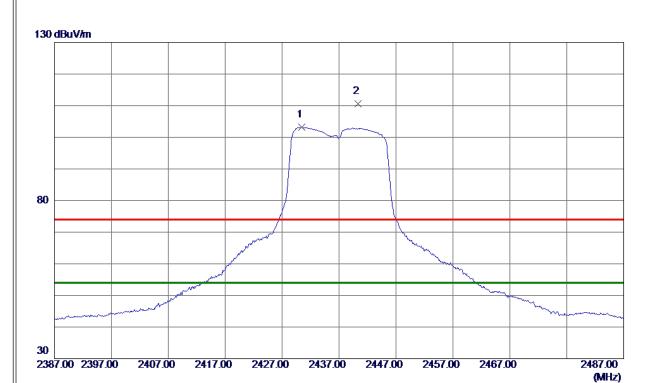


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4824. 7500	29. 14	5. 23	34. 37	54. 00	-19. 63	AVG	
2	4825, 4100	39, 85	5. 23	45. 08	74. 00	-28, 92	Peak	

- (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. 4000	94. 79	8. 36	103. 15	54.00	49. 15	AVG	No Limit
2	2440. 3000	102. 24	8. 37	110. 61	74. 00	36. 61	Peak	No Limit

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



Test Mode	TX G Mode 2437 MHz	Polarization	Vertical

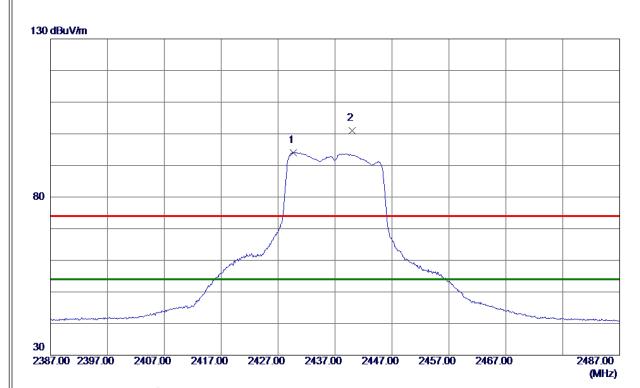


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4871. 2200	35. 08	5. 47	40. 55	54.00	-13. 45	AVG	
2	4873. 1800	46. 17	5. 48	51.65	74. 00	-22. 35	Peak	

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



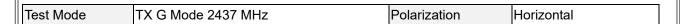




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2429. 7000	85. 71	8. 36	94. 07	54.00	40.07	AVG	No Limit
2	2440. 0000	92. 61	8. 37	100. 98	74.00	26. 98	Peak	No Limit

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





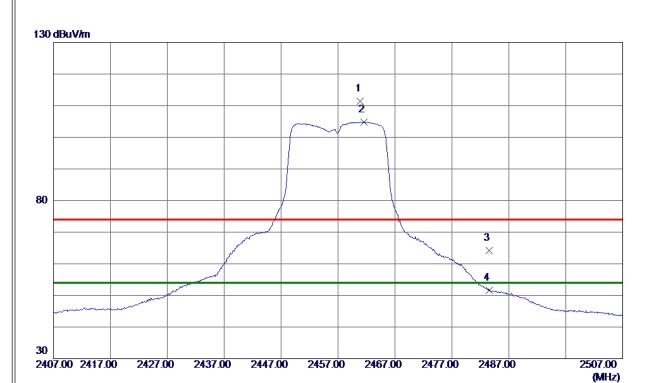


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4878. 9500	28. 34	5. 51	33. 85	54.00	-20. 15	AVG	
2	4883. 1600	38. 70	5. 53	44. 23	74. 00	-29. 77	Peak	

- (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	2460. 9000	102. 96	8. 40	111. 36	74.00	37. 36	Peak	No Limit
2 *	2461. 5000	96. 38	8. 40	104. 78	54.00	50. 78	AVG	No Limit
3	2483. 5000	55. 79	8. 42	64. 21	74.00	-9. 79	Peak	
4	2483. 5000	43. 27	8. 42	51. 69	54. 00	-2. 31	AVG	

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





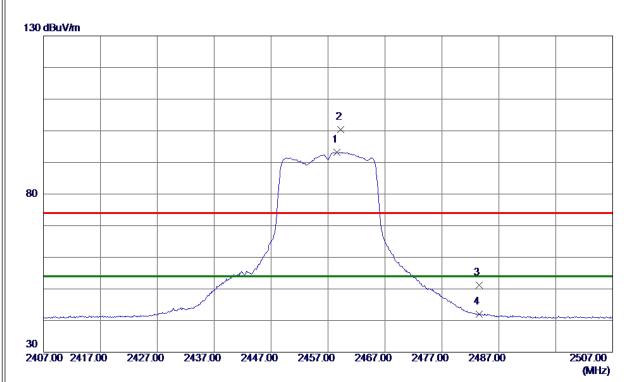


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4912. 5299	46. 36	5. 68	52. 04	74.00	-21. 96	Peak	
2 *	4912. 8700	34. 42	5. 68	40. 10	54. 00	-13. 90	AVG	

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



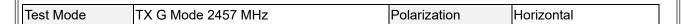


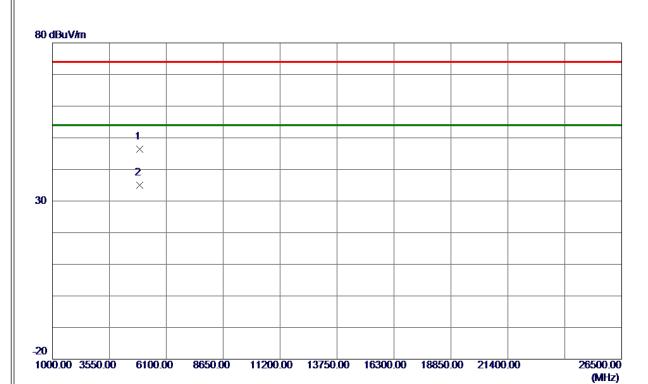


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2458. 6000	84. 76	8. 39	93. 15	54.00	39. 15	AVG	No Limit
2	2459. 2000	92. 08	8. 39	100. 47	74.00	26. 47	Peak	No Limit
3	2483. 5000	42.71	8. 42	51. 13	74.00	-22.87	Peak	
4	2483. 5000	33. 52	8. 42	41. 94	54.00	-12. 06	AVG	

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





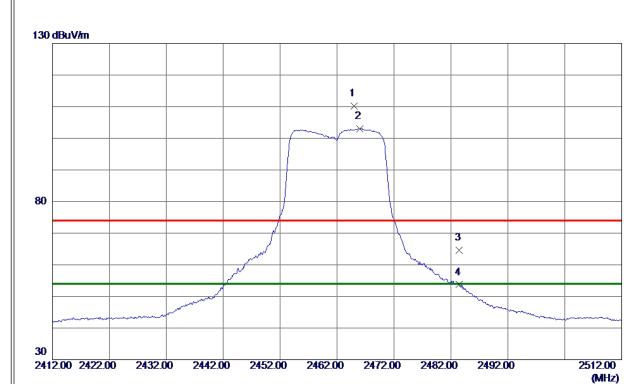


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4914. 0700	40.64	5. 68	46. 32	74.00	-27. 68	Peak	
2 *	4915. 6800	29. 24	5. 69	34. 93	54. 00	-19. 07	AVG	

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



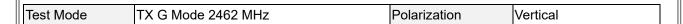


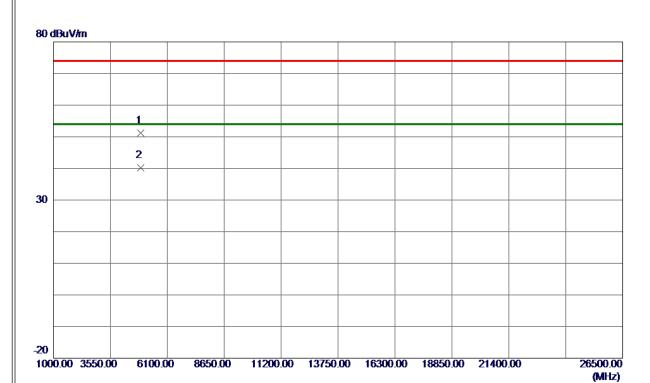


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2465. 0000	101.83	8. 40	110. 23	74.00	36. 23	Peak	No Limit
2 *	2466. 0000	94. 61	8. 40	103. 01	54.00	49.01	AVG	No Limit
3	2483. 5000	56. 15	8. 42	64. 57	74.00	-9.43	Peak	
4	2483. 5000	45 . 28	8. 42	53. 70	54.00	-0. 30	AVG	

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





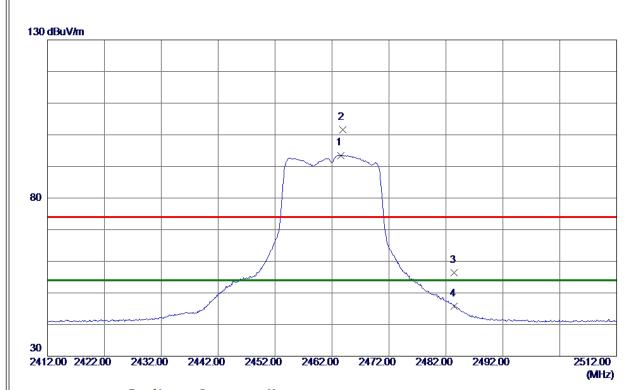


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4918. 2000	45. 42	5. 71	51. 13	74.00	-22.87	Peak	
2 *	4923. 8500	34. 48	5. 73	40. 21	54. 00	-13. 79	AVG	

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



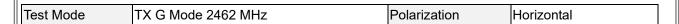


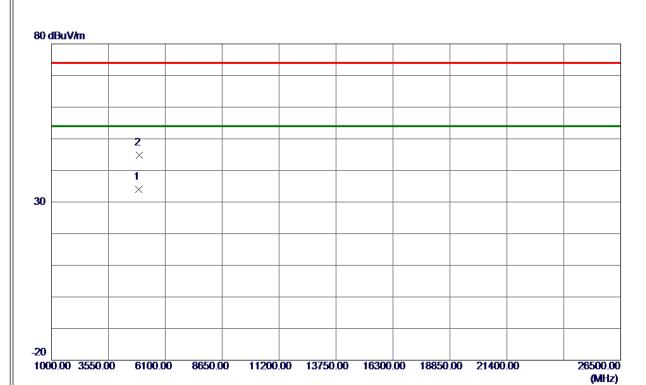


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2463. 6000	85. 10	8. 40	93. 50	54.00	39. 50	AVG	No Limit
2	2463. 9000	93. 20	8. 40	101. 60	74.00	27. 60	Peak	No Limit
3	2483. 5000	48. 02	8. 42	56. 44	74.00	-17. 56	Peak	
4	2483. 5000	37. 35	8. 42	45. 77	54.00	-8. 23	AVG	

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





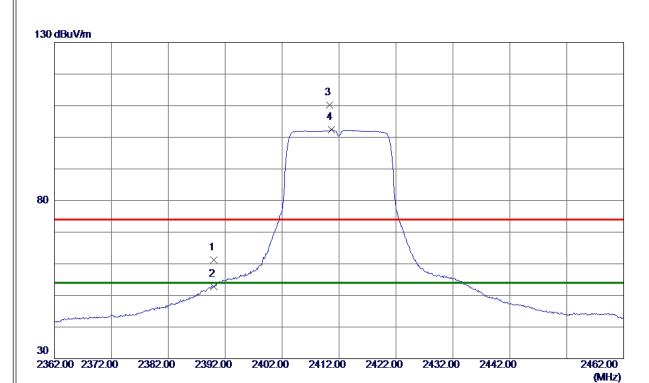


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4912. 1250	28. 33	5. 67	34. 00	54.00	-20.00	AVG	
2	4934, 9250	39. 00	5. 79	44. 79	74. 00	-29. 21	Peak	

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



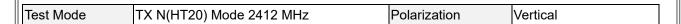


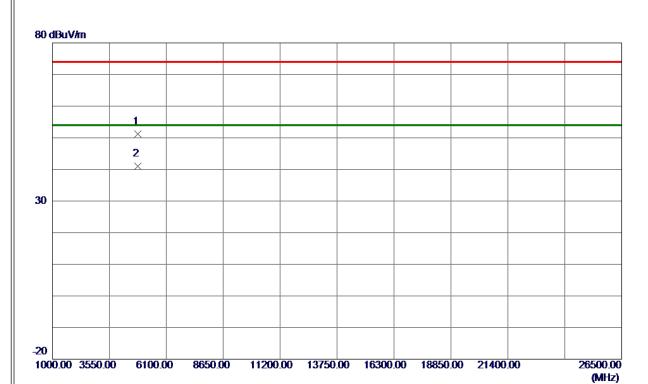


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	52. 85	8. 31	61. 16	74.00	-12.84	Peak	
2	2390. 0000	44. 44	8. 31	52. 75	54.00	-1. 25	AVG	
3	2410. 3000	101. 79	8. 33	110. 12	74.00	36. 12	Peak	No Limit
4 *	2410. 7000	94. 13	8. 33	102. 46	54. 00	48. 46	AVG	No Limit

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





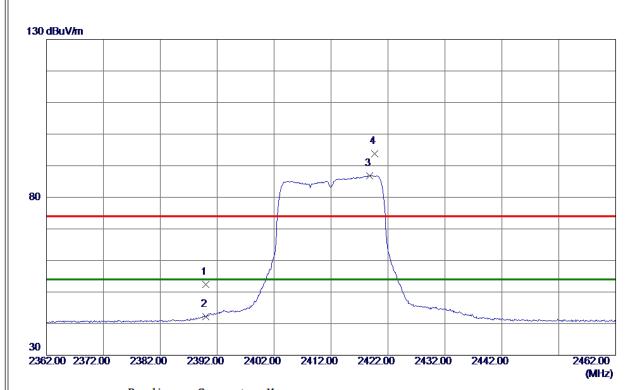


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4821. 9800	45. 95	5. 22	51. 17	74. 00	-22. 83	Peak	
2 *	4823, 7900	35. 77	5. 23	41. 00	54. 00	-13, 00	AVG	

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





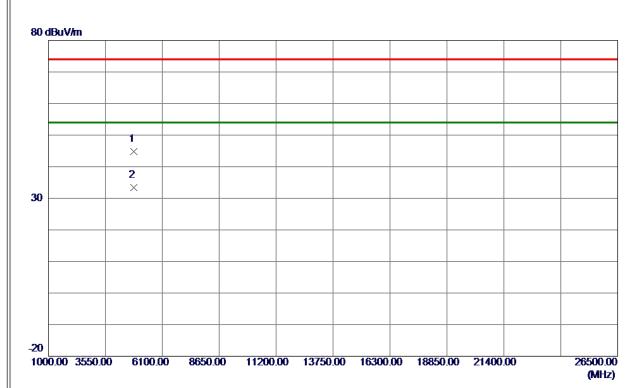


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	44. 07	8. 31	52. 38	74.00	-21.62	Peak	
2	2390. 0000	33. 81	8. 31	42. 12	54.00	-11.88	AVG	
3 *	2418. 8000	78. 48	8. 34	86. 82	54.00	32. 82	AVG	No Limit
4	2419. 7000	85. 44	8. 34	93. 78	74.00	19. 78	Peak	No Limit
1								

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



ı				
l	Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal

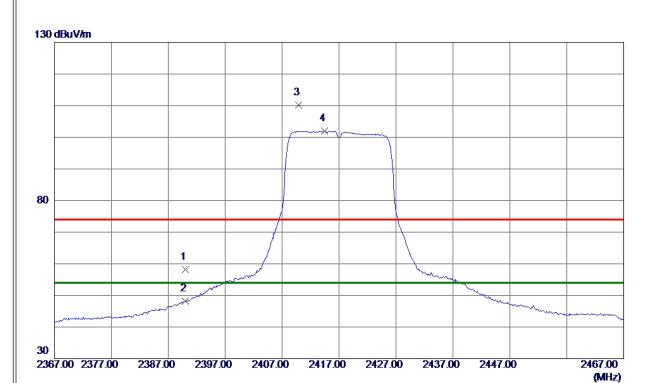


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4815. 9200	39. 59	5. 19	44. 78	74.00	-29. 22	Peak	
2 *	4824. 6800	28. 13	5. 23	33. 36	54. 00	-20. 64	AVG	

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



Test Mode	TX N(HT20) Mode 2417 MHz	Polarization	Vertical

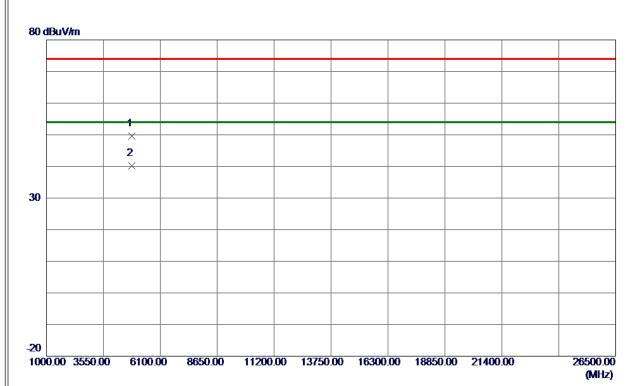


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	49.83	8. 31	58. 14	74.00	-15. 86	Peak	
2	2390. 0000	39. 82	8. 31	48. 13	54.00	-5. 87	AVG	
3	2409. 9000	101. 93	8. 33	110. 26	74.00	36. 26	Peak	No Limit
4 *	2414. 4000	93. 57	8. 34	101. 91	54.00	47. 91	AVG	No Limit

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





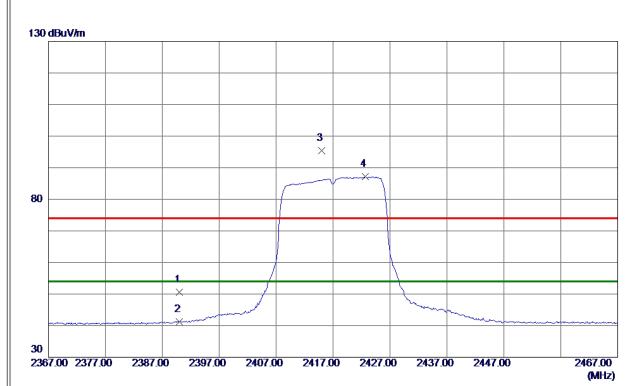


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4827. 1200	44. 38	5. 24	49.62	74.00	-24. 38	Peak	
2 *	4833. 8900	34. 83	5. 28	40. 11	54. 00	-13. 89	AVG	

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





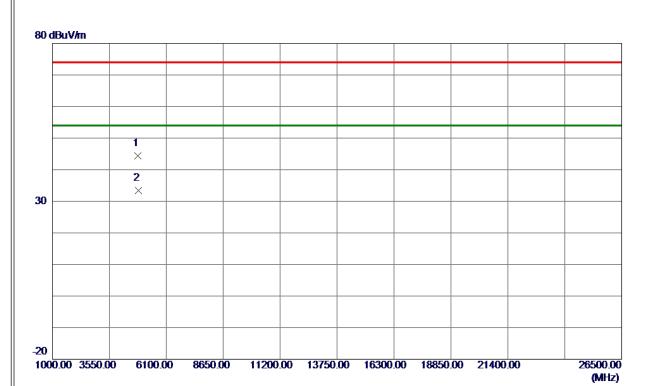


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	42. 30	8. 31	50. 61	74.00	-23. 39	Peak	
2	2390. 0000	32. 85	8. 31	41. 16	54.00	-12.84	AVG	
3	2415. 0000	86. 97	8. 34	95. 31	74.00	21. 31	Peak	No Limit
4 *	2422. 7000	78. 78	8. 35	87. 13	54. 00	33. 13	AVG	No Limit

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



Test Mode	TX N(HT20) Mode 2417 MHz	Polarization	Horizontal

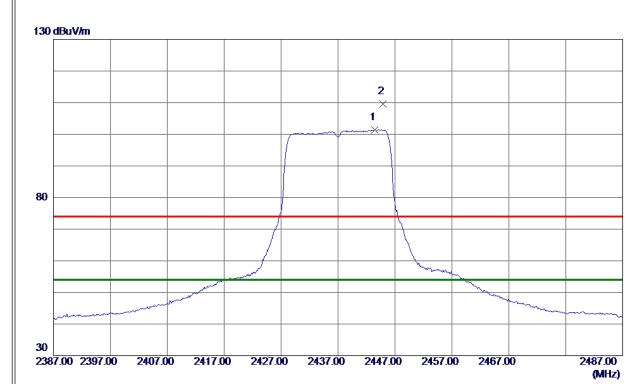


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4827. 1000	39. 15	5. 24	44. 39	74.00	-29. 61	Peak	
2 *	4842. 3800	28. 17	5. 32	33. 49	54. 00	-20. 51	AVG	

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





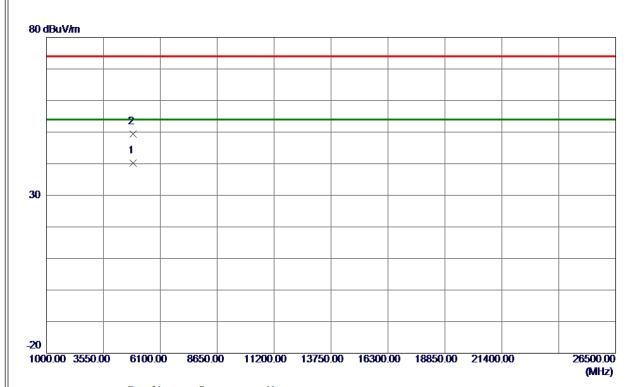


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2443. 4000	93. 05	8. 37	101. 42	54.00	47. 42	AVG	No Limit
2	2444. 9000	101. 23	8. 38	109. 61	74. 00	35. 61	Peak	No Limit

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



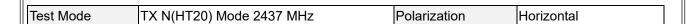


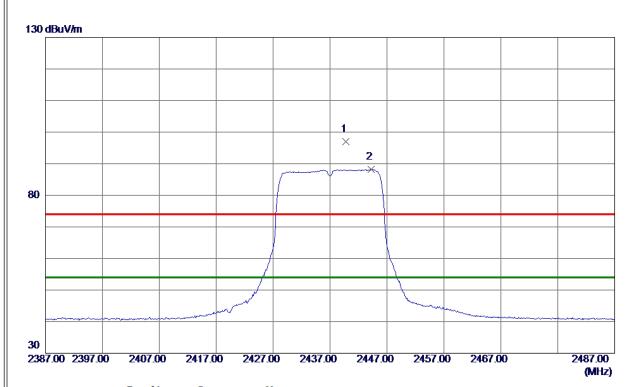


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873.8700	34. 67	5. 48	40. 15	54.00	-13.85	AVG	
2	4874. 0600	43. 85	5. 48	49. 33	74. 00	-24. 67	Peak	

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





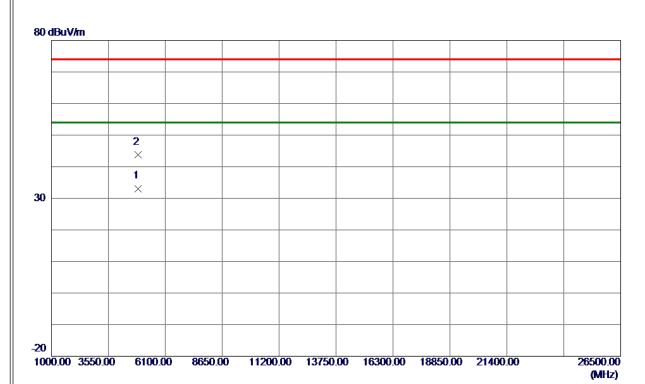


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439. 8000	88. 71	8. 37	97. 08	74.00	23. 08	Peak	No Limit
2 *	2444. 2000	79. 80	8. 37	88. 17	54.00	34. 17	AVG	No Limit

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





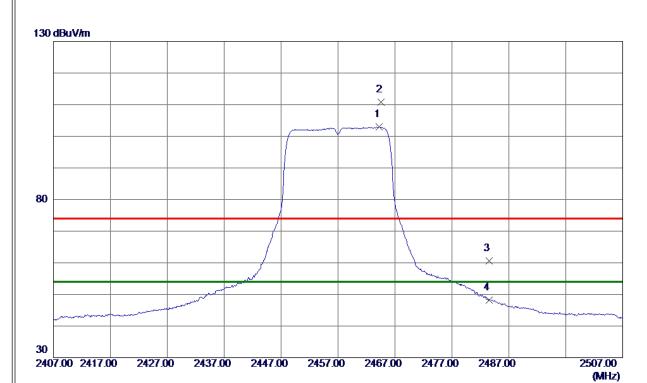


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4868. 0299	27. 65	5. 45	33. 10	54.00	-20.90	AVG	
2	4874. 6900	38. 38	5. 48	43.86	74. 00	-30. 14	Peak	

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





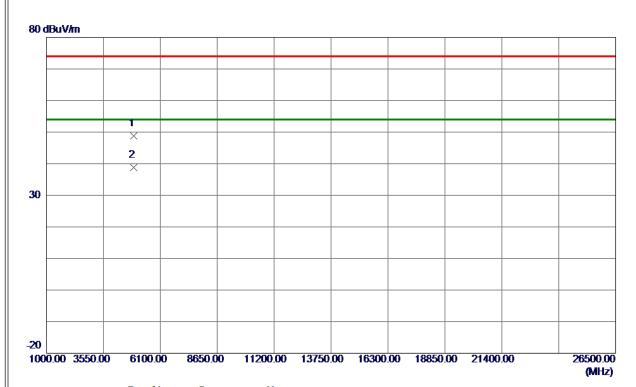


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2464. 2000	94. 51	8. 40	102. 91	54.00	48. 91	AVG	No Limit
2	2464. 6000	102. 37	8. 40	110. 77	74.00	36. 77	Peak	No Limit
3	2483. 5000	52. 14	8. 42	60. 56	74.00	-13. 44	Peak	
4	2483. 5000	39. 82	8. 42	48. 24	54.00	-5. 76	AVG	

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





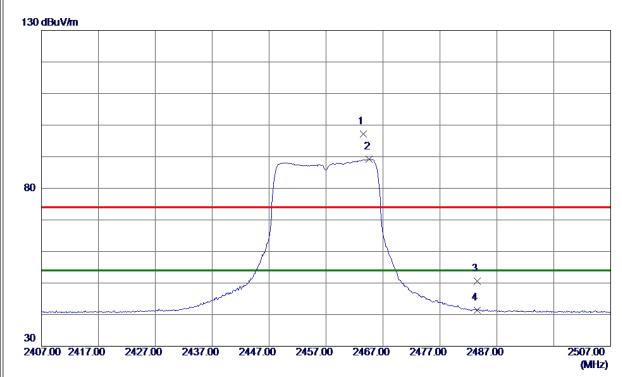


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4909. 5600	43. 14	5. 66	48. 80	74.00	-25. 20	Peak	
2 *	4914. 0500	33. 12	5. 68	38. 80	54. 00	-15. 20	AVG	

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





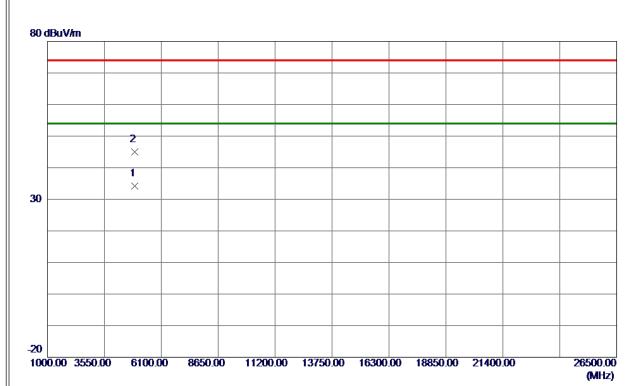


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2463. 5000	88. 74	8. 40	97. 14	74.00	23. 14	Peak	No Limit
2 *	2464. 6000	80.88	8. 40	89. 28	54.00	35. 28	AVG	No Limit
3	2483. 5000	42. 18	8. 42	50. 60	74.00	-23. 40	Peak	
4	2483. 5000	32. 99	8. 42	41. 41	54. 00	-12. 59	AVG	

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



Test Mode	TX N(HT20) Mode 2457 MHz	Polarization	Horizontal

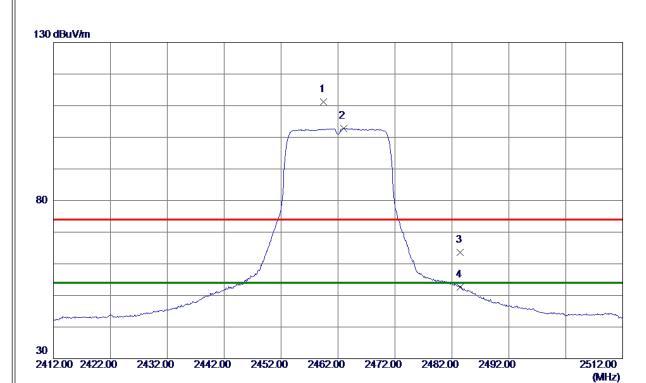


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4915. 1700	28. 48	5. 69	34. 17	54.00	-19.83	AVG	
2	4915, 7000	39, 28	5. 69	44. 97	74. 00	-29. 03	Peak	

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





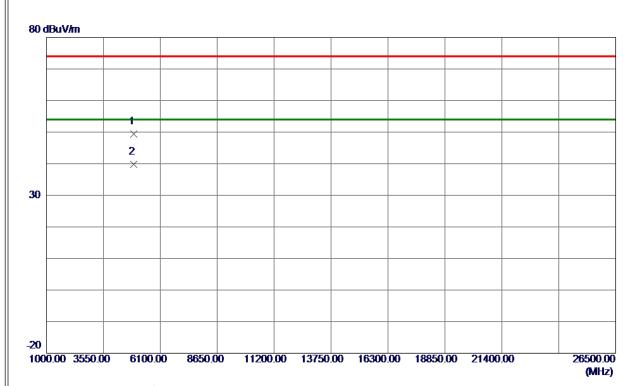


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2459. 5000	102.85	8. 39	111. 24	74.00	37. 24	Peak	No Limit
2 *	2463. 0000	94. 39	8. 40	102. 79	54.00	48. 79	AVG	No Limit
3	2483. 5000	55. 26	8. 42	63. 68	74.00	-10. 32	Peak	
4	2483. 5000	44. 21	8. 42	52. 63	54. 00	-1. 37	AVG	

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





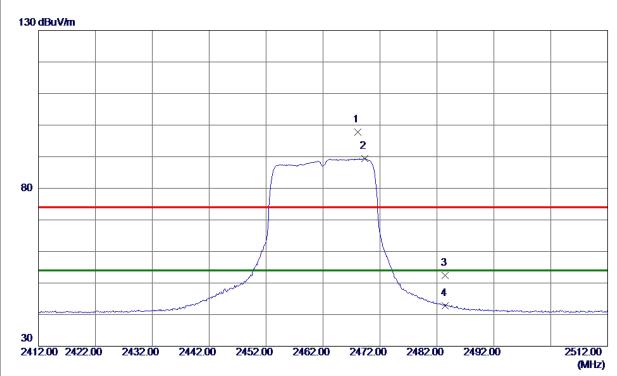


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4921. 9400	43.66	5. 72	49. 38	74.00	-24. 62	Peak	
2 *	4924. 0600	34. 05	5. 73	39. 78	54.00	-14. 22	AVG	

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



Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal

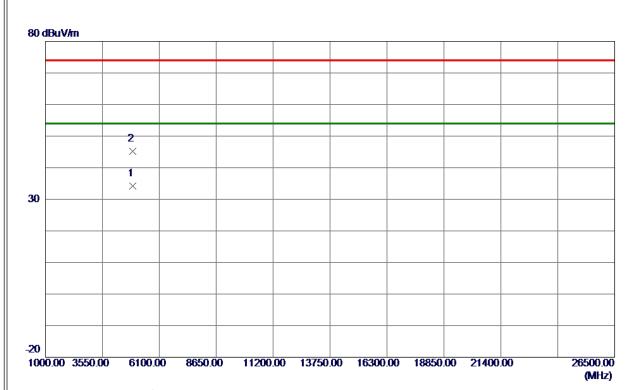


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2468. 1000	89. 36	8. 40	97. 76	74.00	23. 76	Peak	No Limit
2 *	2469. 3000	81. 03	8. 41	89. 44	54.00	35. 44	AVG	No Limit
3	2483. 5000	43. 91	8. 42	52. 33	74.00	-21. 67	Peak	
4	2483. 5000	34. 44	8. 42	42.86	54. 00	-11. 14	AVG	

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





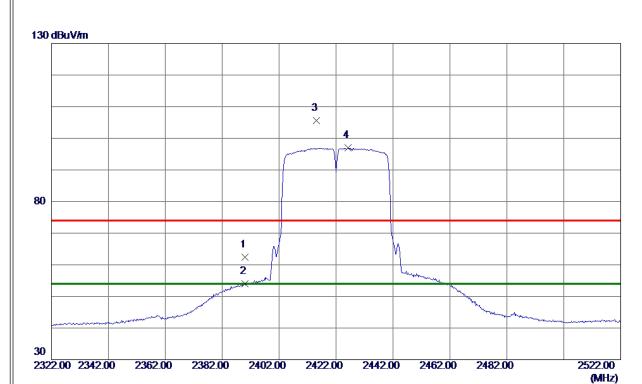


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4915. 3000	28. 50	5. 69	34. 19	54.00	-19.81	AVG	
2	4919. 3400	39. 41	5. 71	45. 12	74. 00	-28. 88	Peak	

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





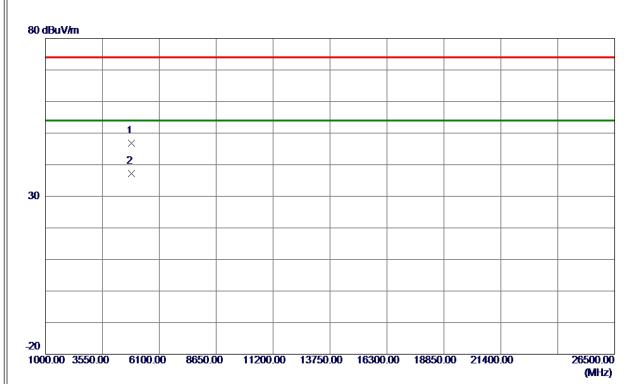


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	54. 16	8. 31	62. 47	74.00	-11. 53	Peak	
2	2390. 0000	45. 68	8. 31	53. 99	54.00	-0.01	AVG	
3	2415. 2000	97. 19	8. 34	105. 53	74.00	31. 53	Peak	No Limit
4 *	2426. 2000	88. 59	8. 35	96. 94	54.00	42. 94	AVG	No Limit

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



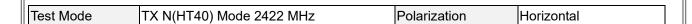


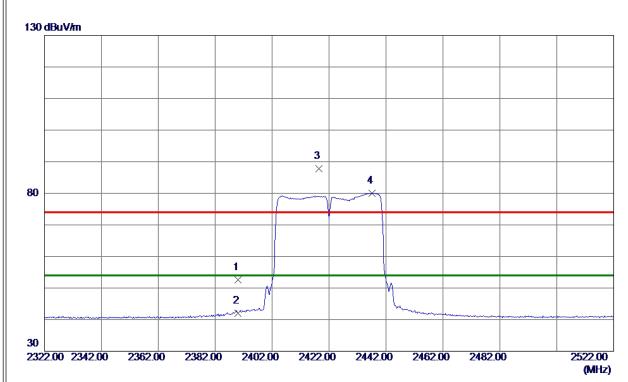


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843. 7300	41. 39	5. 33	46. 72	74.00	-27. 28	Peak	
2 *	4843, 9900	31. 95	5. 33	37. 28	54. 00	-16. 72	AVG	

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





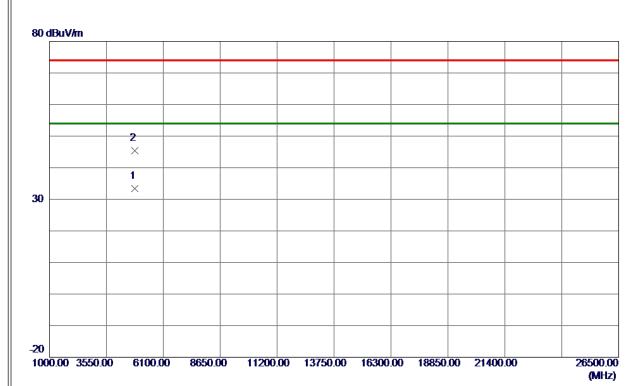


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	44. 20	8. 31	52. 51	74.00	-21. 49	Peak	
2	2390. 0000	33. 66	8. 31	41. 97	54.00	-12. 03	AVG	
3	2418. 4000	79. 41	8. 34	87. 75	74.00	13. 75	Peak	No Limit
4 *	2437. 2000	71. 67	8. 37	80. 04	54. 00	26. 04	AVG	No Limit

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





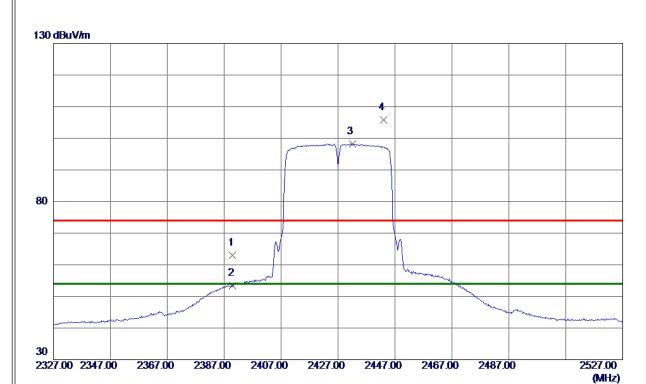


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4834. 0099	28. 17	5. 28	33. 45	54.00	-20.55	AVG	
2	4838. 3800	40. 08	5. 30	45. 38	74.00	-28. 62	Peak	

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



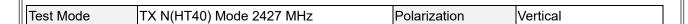


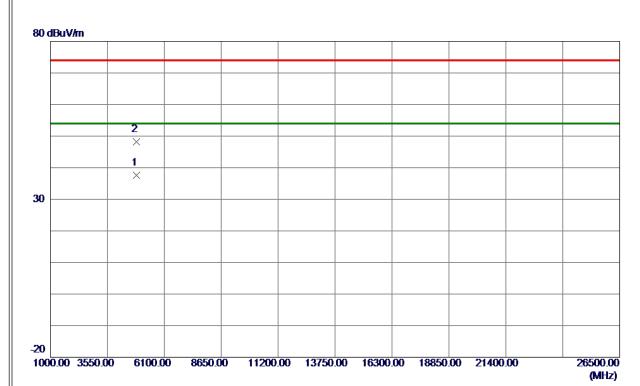


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	54. 69	8. 31	63. 00	74.00	-11.00	Peak	
2	2390. 0000	45. 02	8. 31	53. 33	54.00	-0.67	AVG	
3 *	2432. 0000	89. 86	8. 36	98. 22	54.00	44. 22	AVG	No Limit
4	2443. 0000	97. 42	8. 37	105. 79	74.00	31. 79	Peak	No Limit

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



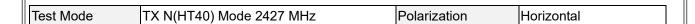


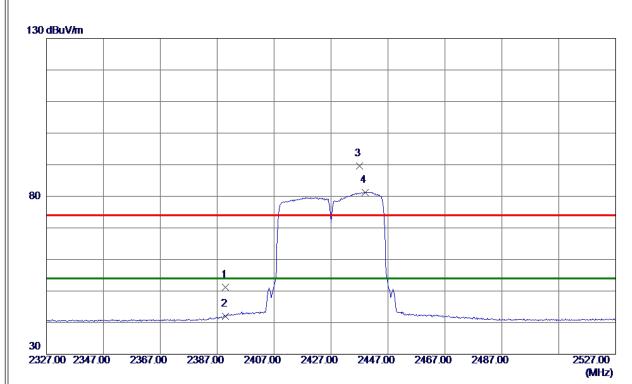


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4854. 0500	32. 29	5. 38	37. 67	54.00	-16. 33	AVG	
2	4854, 1700	42. 84	5. 38	48, 22	74. 00	-25, 78	Peak	

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



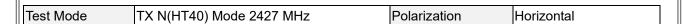




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	42. 95	8. 31	51. 26	74.00	-22. 74	Peak	
2	2390. 0000	33. 70	8. 31	42. 01	54.00	-11. 99	AVG	
3	2437. 0000	81. 16	8. 36	89. 52	74.00	15. 52	Peak	No Limit
4 *	2439. 0000	72. 85	8. 37	81. 22	54.00	27. 22	AVG	No Limit

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





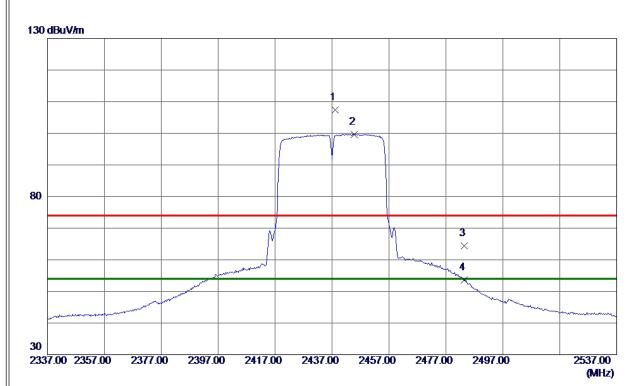


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4845. 5099	28. 15	5. 34	33. 49	54.00	-20. 51	AVG	
2	4849. 1500	39. 15	5. 36	44. 51	74.00	-29.49	Peak	

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





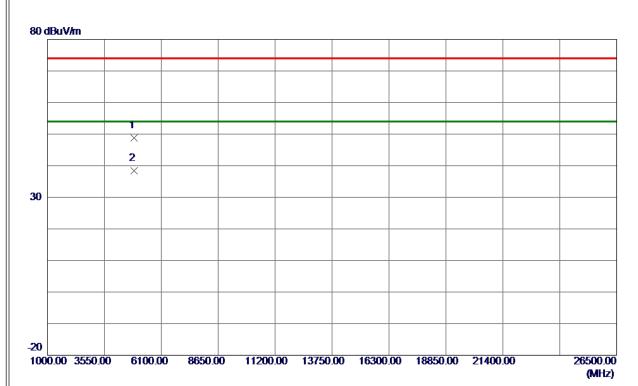


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2438. 0000	98. 94	8. 37	107. 31	74.00	33. 31	Peak	No Limit
2 *	2444. 8000	91. 30	8. 37	99. 67	54.00	45. 67	AVG	No Limit
3	2483. 5000	55. 99	8. 42	64. 41	74.00	-9. 59	Peak	
4	2483. 5000	45. 13	8. 42	53. 55	54. 00	-0. 45	AVG	

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





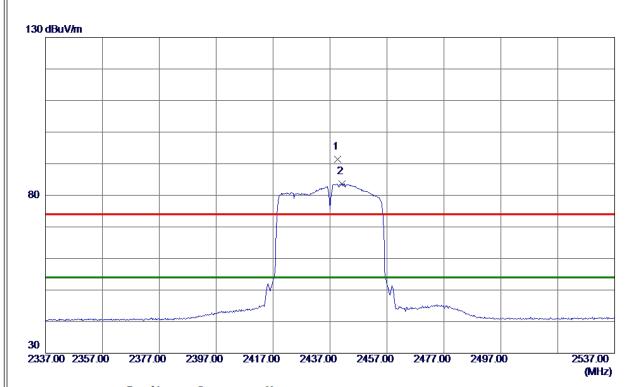


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873. 8000	43. 32	5. 48	48. 80	74.00	-25. 20	Peak	
2 *	4873. 9900	32. 99	5. 48	38. 47	54.00	-15. 53	AVG	

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



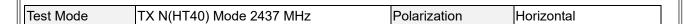




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439. 6000	83. 12	8. 37	91. 49	74.00	17. 49	Peak	No Limit
2 *	2441. 2000	75. 31	8. 37	83. 68	54.00	29. 68	AVG	No Limit

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





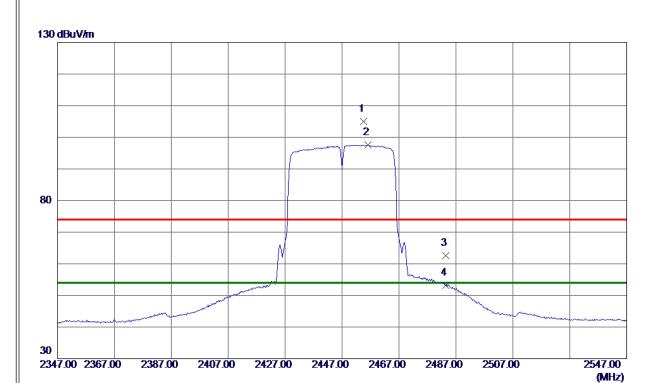


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4864. 1900	39. 20	5. 43	44. 63	74.00	-29. 37	Peak	
2 *	4869. 3200	27. 68	5. 46	33. 14	54.00	-20.86	AVG	

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





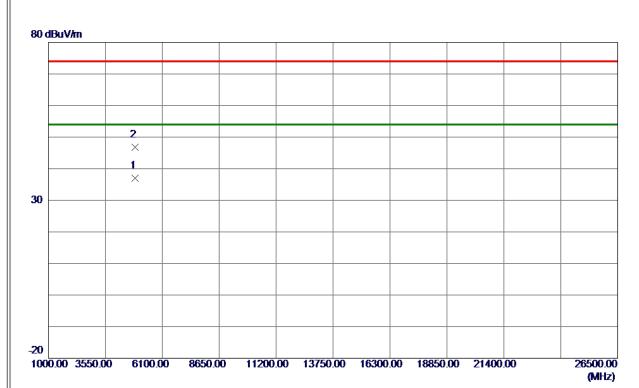


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2454. 6000	96. 58	8. 39	104. 97	74.00	30. 97	Peak	No Limit
2 *	2456. 2000	89. 14	8. 39	97. 53	54.00	43. 53	AVG	No Limit
3	2483. 5000	54. 13	8. 42	62. 55	74.00	-11. 45	Peak	
4	2483. 5000	44. 73	8. 42	53. 15	54.00	-0.85	AVG	

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





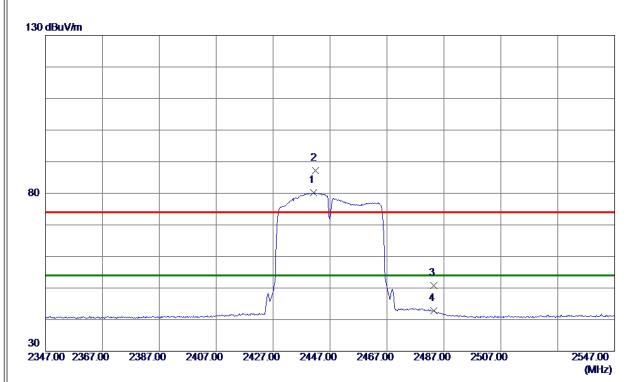


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4893. 9400	31. 43	5. 58	37. 01	54.00	-16. 99	AVG	
2	4894. 1200	41. 19	5. 58	46. 77	74.00	-27. 23	Peak	

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





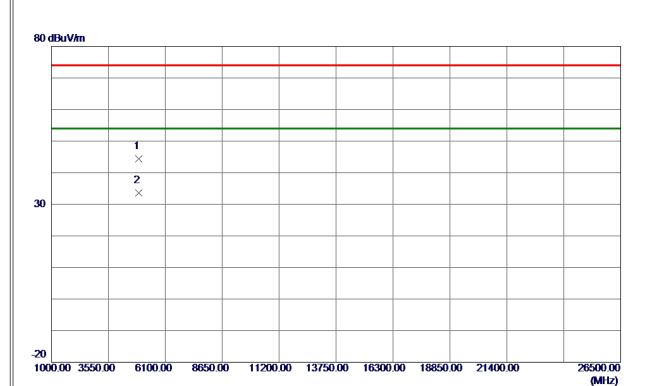


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2441. 2000	71. 74	8. 37	80. 11	54.00	26. 11	AVG	No Limit
2	2441. 8000	78. 92	8. 37	87. 29	74.00	13. 29	Peak	No Limit
3	2483. 5000	42. 43	8. 42	50. 85	74.00	-23. 15	Peak	
4	2483. 5000	34. 46	8. 42	42. 88	54. 00	-11. 12	AVG	

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



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Test Mode	TX N(HT40) Mode 2447 MHz	Polarization	Horizontal

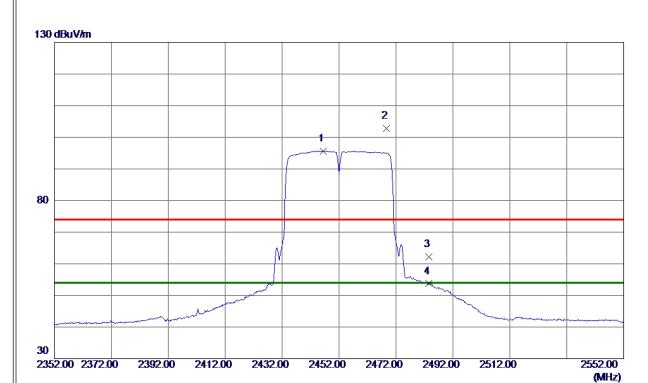


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4896. 7599	38. 86	5. 60	44. 46	74.00	-29.54	Peak	
2 *	4903. 9700	27. 98	5. 63	33. 61	54.00	-20. 39	AVG	

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



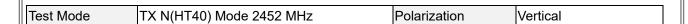


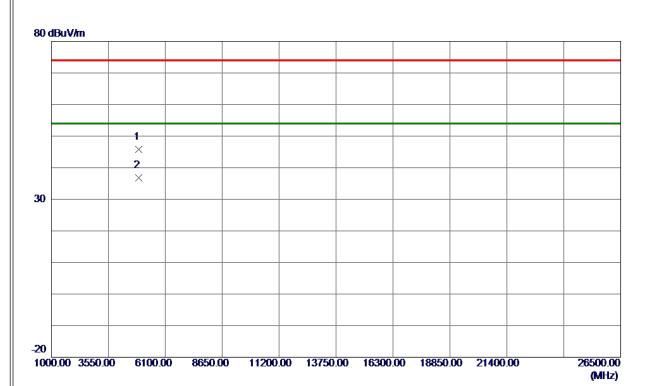


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2446. 4000	87. 29	8. 38	95. 67	54.00	41.67	AVG	No Limit
2	2468. 6000	94. 32	8. 41	102. 73	74.00	28. 73	Peak	No Limit
3	2483. 5000	53. 73	8. 42	62. 15	74.00	-11.85	Peak	
4	2483. 5000	45. 28	8. 42	53. 70	54. 00	-0. 30	AVG	

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





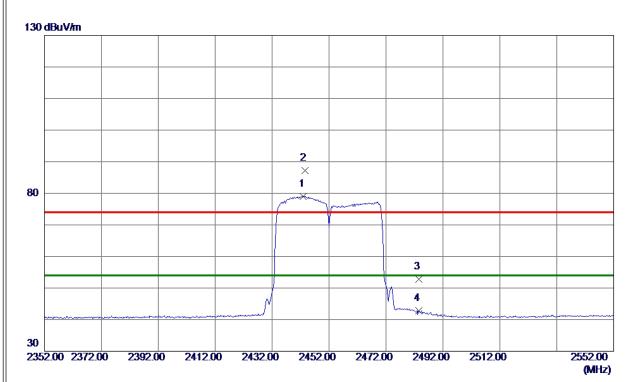


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4902. 8700	40. 17	5. 63	45. 80	74.00	-28. 20	Peak	
2 *	4903. 9500	31. 15	5. 63	36. 78	54.00	-17. 22	AVG	

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





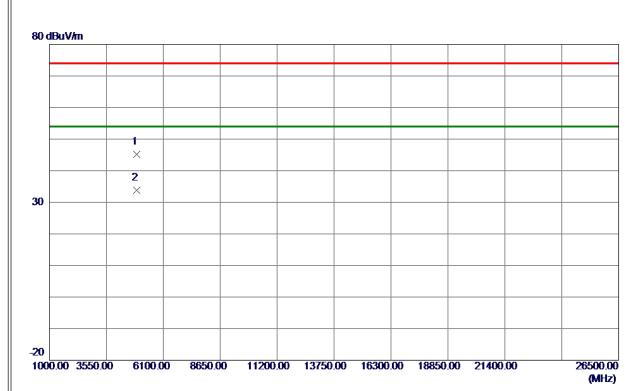


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2443. 0000	70.65	8. 37	79. 02	54.00	25. 02	AVG	No Limit
2	2443. 6000	78. 80	8. 37	87. 17	74.00	13. 17	Peak	No Limit
3	2483. 5000	44. 46	8. 42	52. 88	74.00	-21. 12	Peak	
4	2483. 5000	34. 29	8. 42	42. 71	54. 00	-11. 29	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	4906. 6300	39. 54	5. 65	45. 19	74.00	-28.81	Peak	
2 *	4913. 4500	28. 10	5. 68	33. 78	54.00	-20. 22	AVG	

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

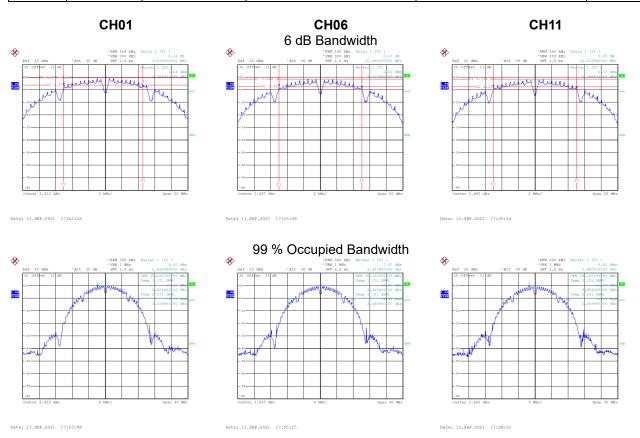


APPENDIX E - BANDWIDTH	



Test Mode	TX B Mode		

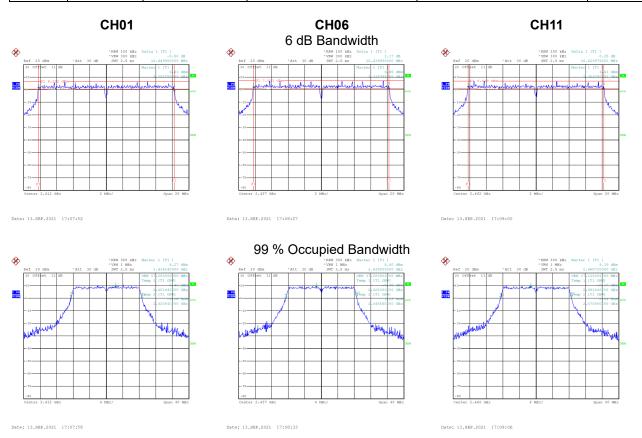
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	9.64	15.28	0.50	Complies
06	2437	10.06	15.28	0.50	Complies
11	2462	10.12	15.28	0.50	Complies





Test Mode	TX G Mode

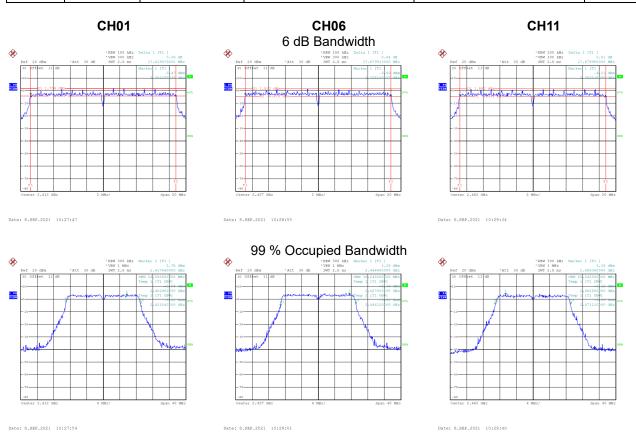
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.45	17.20	0.50	Complies
06	2437	16.44	17.20	0.50	Complies
11	2462	16.43	17.12	0.50	Complies





Test Mode	TX N(HT20) Mode

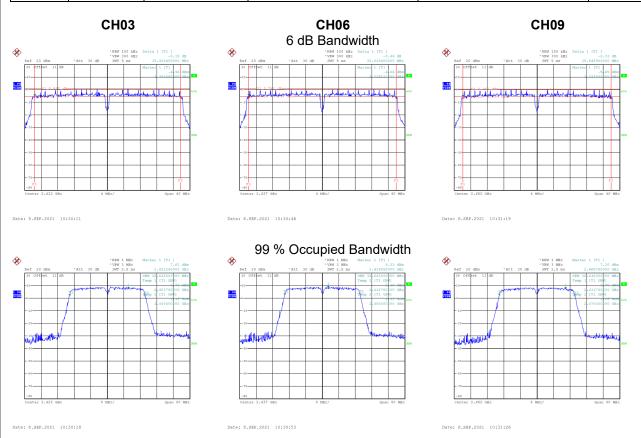
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.62	18.08	0.50	Complies
06	2437	17.68	18.24	0.50	Complies
11	2462	17.68	18.24	0.50	Complies





	Test Mode	TX N(HT40) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	35.44	36.64	0.50	Complies
06	2437	35.83	36.64	0.50	Complies
09	2452	35.85	36.64	0.50	Complies





APPENDIX F - MAXIMUM AVERAGE OUTPUT POWER



Test Mode TX B Mode Ant.	Test Mode	TX B Mode	Ant.	1
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Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.32	0.00	20.32	30.00	1.0000	Complies
06	2437	21.67	0.00	21.67	30.00	1.0000	Complies
11	2462	16.87	0.00	16.87	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 1
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Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.75	0.49	18.24	30.00	1.0000	Complies
06	2437	16.98	0.49	17.47	30.00	1.0000	Complies
11	2462	17.83	0.49	18.32	30.00	1.0000	Complies



Test Mode	TX N(HT20) Mode_Ar	nt. 1
100t Wode	17 (11 120) WOULD _7 (1	

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.01	0.36	14.37	30.00	1.0000	Complies
06	2437	14.09	0.36	14.45	30.00	1.0000	Complies
11	2462	14.14	0.36	14.50	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode	Ant. 2

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.98	0.36	14.34	30.00	1.0000	Complies
06	2437	13.94	0.36	14.30	30.00	1.0000	Complies
11	2462	13.95	0.36	14.31	30.00	1.0000	Complies

Test Mode

Channel	Frequency (MHz)	Average Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.37	30.00	1.0000	Complies
06	2437	17.39	30.00	1.0000	Complies
11	2462	17.42	30.00	1.0000	Complies



Test Mode	TX N(HT40) Mode_Ant.	. 1
100t Wiodo	17	

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	13.77	1.00	14.77	30.00	1.0000	Complies
06	2437	15.22	1.00	16.22	30.00	1.0000	Complies
09	2452	12.44	1.00	13.44	30.00	1.0000	Complies

Test Mode TX N(HT40) Mode_Ant.

Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	13.36	1.00	14.36	30.00	1.0000	Complies
06	2437	14.74	1.00	15.74	30.00	1.0000	Complies
09	2452	12.48	1.00	13.48	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Total
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Channel	Frequency (MHz)	Average Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.58	30.00	1.0000	Complies
06	2437	18.99	30.00	1.0000	Complies
09	2452	16.47	30.00	1.0000	Complies



APPENDIX G - CONDUCTED SPURIOUS EMISSIONS