



FCC Radio Test Report

FCC ID: KA2IRLX1870A1

This report concerns: Original Grant

Project No. : 2005H044

Equipment : 1) AX1800 Whole Home Mesh Wi-Fi 6 Router

2) AX1800 Whole Home Mesh Wi-Fi 6 System

Brand Name : D-Link

Test Model : COVR-X1870

Series Model : COVR-X1872, COVR-X1873, DIR-LX1870, DIR-LX1872, DIR-LX1873

Applicant: D-Link Corporation

Address : 17595 Mt. Herrmann, Fountain Valley, California United State 92708

Manufacturer: D-Link Corporation

Address : 17595 Mt. Herrmann, Fountain Valley, California United State 92708

Date of Receipt : May 25, 2020

Date of Test : May 25, 2020~Jul. 02, 2020

Issued Date : Jul. 20, 2020

Report Version : R00

Test Sample : Engineering Sample No.: SH2020052550 for EUT; SH2020052550-1/

SH20200609295-2 for adapter.

Standard(s) : FCC Part15, Subpart C (15.247)

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

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

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Certificate # 5123.03



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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 Version	Description	Issued Date
R00	Original Issue.	Jul. 20, 2020



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart C (15.247)				
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. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, China

BTL's Test Firm Registration Number for FCC: 476765

BTL's Designation Number for FCC: CN1241

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. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)									
		9 KHz~30 MHz	V	3.79									
		9 KHz~30 MHz	Н	3.57									
		30 MHz~200 MHz	V	4.04									
		30 MHz~200 MHz	Н	3.76									
SH-CB01	CISPR	CICDD	CICDD	CICDD	CICDD	CICDD	CICDD	CICDD	CICDD	CICDD	200 MHz~1,000 MHz	V	4.24
311-0601		200 MHz~1,000 MHz	Н	3.84									
		1 GHz~18 GHz	V	4.46									
		1 GHz~18 GHz	Н	4.40									
		18 GHz~40 GHz	V	3.95									
		18 GHz~40 GHz	Н	3.95									

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	56%	AC 120V/60Hz	Forest Li
Radiated Emissions-30 MHz to 1GHz	24°C	58%	AC 120V/60Hz	Forest Li
Radiated Emissions-Above 1000 MHz	24°C	58%	AC 120V/60Hz	Forest Li
Bandwidth	24°C	56%	AC 120V/60Hz	Forest Li
Maximum output power	24°C	56%	AC 120V/60Hz	Forest Li
Conducted Spurious Emissions	24°C	56%	AC 120V/60Hz	Forest Li
Power Spectral Density	24°C	56%	AC 120V/60Hz	Forest Li



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Fautionsont	1) AX1800 Whole Home Mesh Wi-Fi 6 Router				
Equipment	2) AX1800 Whole Home Mesh Wi-Fi 6 System				
Brand Name	D-Link				
Test Model	COVR-X1870				
Series Model	COVR-X1872, COVR-X1873, DIR-LX1870, DIR-LX1872, DIR-LX1873				
	COVR-X1870 /DIR-LX1870: Single Pack;				
Madal Difference (a)	COVR-X1872/DIR-LX1872: double Pack;				
Model Difference(s)	DIR-LX1873 /COVR-X1873: treble Pack				
	All versions of the Models are electrically equal except for the model name and number of packages.				
Software Version	1				
Hardware Version	A1				
Power Source	DC voltage supplied from AC/DC adapter. 1# Brand/Model: Gongjin/S12A12-120A100-CJ 2# Brand/Model: Gongjin/WB-12G12R				
Power Rating	1# I/P: 100-240V~50/60Hz max 0.5A O/P:12V1A O/P:12.0V1.0A 12.0W				
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 Output Power Non-Beamforming	IEEE 802.11b: 24.95 dBm (0.3126 W) IEEE 802.11g: 22.13 dBm (0.1633 W) IEEE 802.11n (HT20): 24.19 dBm (0.2624 W) IEEE 802.11n (HT40): 20.57 dBm (0.1140 W)				
Maximum Output Power Beamforming	IEEE 802.11n (HT20): 23.81 dBm (0.2404 W) IEEE 802.11n (HT40): 20.25 dBm (0.1059 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)						
				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	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	3
2	N/A	N/A	PCB	N/A	3

Note:

- (1) Antenna Gain=3 dBi. This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain =GAnt.+10log(N)dBi, that is Directional gain=3+10log(2)dBi=6.01. So output power limit is 30-6.01+6=29.99, the power spectral density limit is 8-6.01+6=7.99.
- (2) Beamforming gain: 3dB.
- 4. Table for Antenna Configuration:

Operating Mode TX Mode	Ant. 1	Ant. 2	Ant. 1 + Ant. 2
802.11b	✓	✓	×
802.11g	✓	✓	×
802.11n(20 MHz)	✓	✓	✓
802.11n(40 MHz)	✓	✓	√



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-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	
Mode 5	TX Mode	

Following mode(s) as (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 Mode	

Radiated emissions test - Below 1GHz		
Final Test Mode: Description		
Mode 5	TX Mode	

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-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	

Conducted test		
Final Test Mode:	Description	
Mode 1	TX B Mode Channel 01/06/11	
Mode 2	TX G Mode Channel 01/06/11	
Mode 3	TX N-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	



NOTE:

(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: CCK (1 Mbps) 802.11g mode: OFDM (6 Mbps)

802.11n HT20 mode : BPSK (13Mbps) 802.11n HT40 mode : BPSK (27 Mbps)

For radiated emission tests, the highest output powers were set for final test.

- (3) For conducted emissions and radiated emission below 1 GHz test, two power adapter has been pre-tested, but only the worst case recorded in this report.
- (4) For radiated emission above 1 GHz test, 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

Non-Beamforming

Test Software	accessMTool		
Frequency (MHz)	2412 2437 2462		
IEEE 802.11b	82	95	80
IEEE 802.11g	70	84	71
IEEE 802.11n (HT20)	60	80	68
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	61	64	50

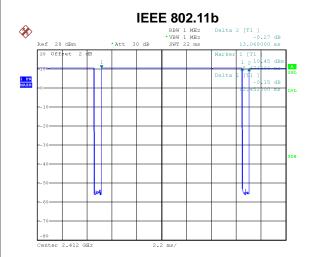
Beamforming

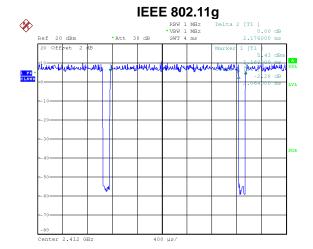
Test Software	accessMTool			
Frequency (MHz)	2412 2437 2462			
IEEE 802.11n (HT20)	60 80 68			
Frequency (MHz)	2422	2437	2452	
IEEE 802.11n (HT40)	61 64 50			



2.4 DUTY CYCLE

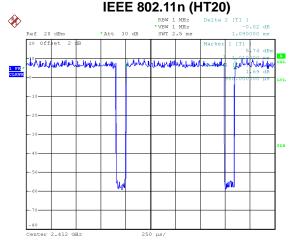
If duty cycle is \geq 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered. The output power = measured power + duty factor.





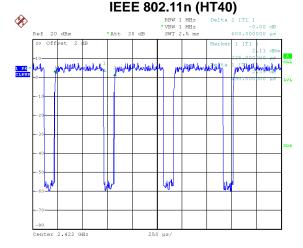
Date: 27.MAY.2020 19:46:22

Duty cycle = 12.452 ms / 13.068 ms = 95.29% Duty Factor = 10 log(1/Duty cycle) = 0.21



Date: 27.MAY.2020 19:46:49

Duty cycle = 2.064 ms / 2.176 ms = 94.85% Duty Factor = 10 log(1/Duty cycle) = 0.23



Date: 27.MAY.2020 19:47:19

Duty cycle = 0.980 ms / 1.090 ms = 89.91% Duty Factor = 10 log(1/Duty cycle) = 0.46, Date: 27.MAY.2020 19:47:46

Duty cycle = 0.490 ms / 0.600 ms = 81.67%Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.88$

NOTE:

For IEEE 802.11g and IEEE 802.11n (HT20):

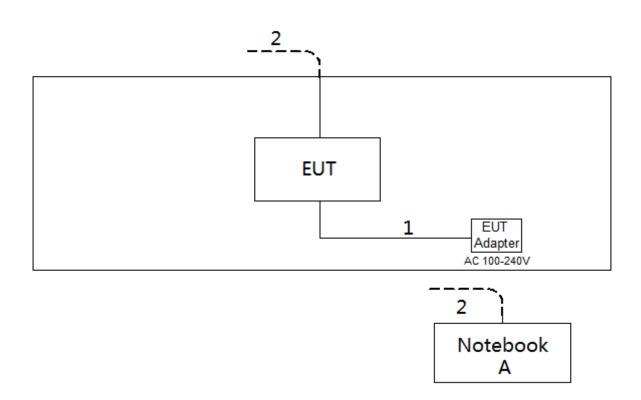
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

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 2 kHz (Duty cycle < 98%).



2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Ite	em	Equipment	Brand	Model No.	Series No.
	Α	Notebook	Lenovo	#P152014	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.5m
2	RJ45 Cable	NO	NO	10m



3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dBµV)		
	Quasi-peak	Average	
0.15 - 0.50	66 to 56*	56 to 46*	
0.50 - 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.

The following table is the setting of the receiver

Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

3.2 TEST PROCEDURE

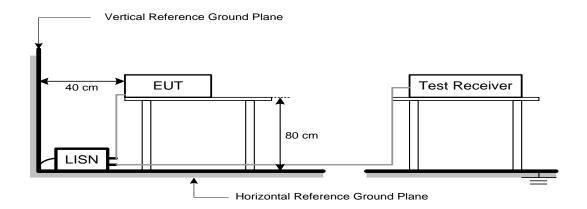
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.

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 TEST

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 PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value



Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	1 MHz / 3 MHz for Peak,	
(Emission in restricted band)	1 MHz / 1/T for Average	

Receiver Parameter	Setting		
Attenuation	Auto		
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			

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.

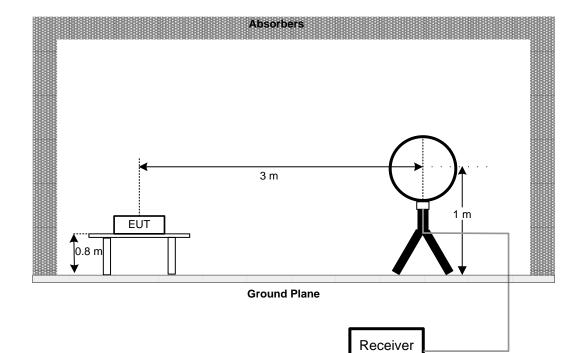
4.3 DEVIATION FROM TEST STANDARD

No deviation

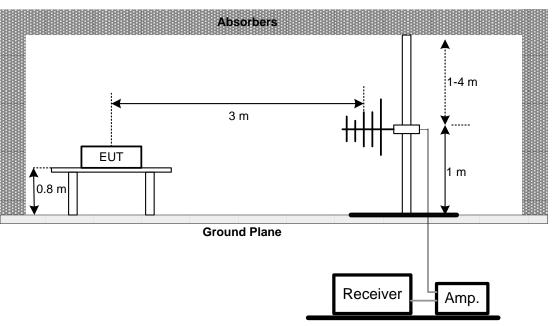


4.4 TEST SETUP

9 kHz-30 MHz

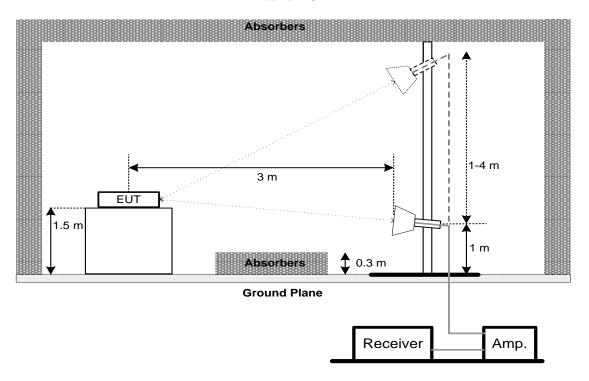


30 MHz to 1 GHz





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 TEST

5.1 LIMIT

FCC Part15, Subpart C (15.247)					
Section Test Item Limit					
45.047(0)(0)	6 dB Bandwidth	Minimum 500 kHz			
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. Spectrum Setting:

For 6 dB Bandwidth: RBW= 100 kHz, VBW=300 kHz, Sweep time = auto.

For 99% Emission Bandwidth B/G/N-20 Mode: RBW= 300 KHz, VBW=1 MHz, Sweep time = 2.5 ms.

For 99% Emission Bandwidth N-40 Mode: RBW= 1 MHz, VBW=3 MHz, Sweep time = 2.5 ms.

c. The bandwidth was performed in accordance with method 11.8.1 of ANSI C63.10-2013.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

EUT	SPECTRUM	
	ANALYZER	

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 TEST

6.1 LIMIT

FCC Part15, Subpart C (15.247)						
Section Test Item Limit						
15.247(b)(3) Maximum Output Power 1 Watt or 30dBm						

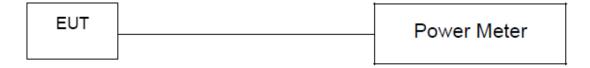
6.2 TEST PROCEDURE

- 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 11.9.1.3 (for peak power) or 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.



7. CONDUCTED SPURIOUS EMISSIONS

7.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = Auto.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

EUT		SPECTRUM	
		ANALYZER	

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 TEST

8.1 LIMIT

FCC Part15, Subpart C (15.247)				
Section Test Item Limit				
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)		

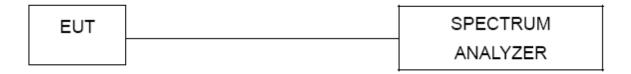
8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW=3 kHz, VBW=10 kHz, Sweep time = Auto.
- c. The Power Spectral Density was performed in accordance with method 11.10.2 of ANSI C63.10-2013.

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	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 21, 2021	
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Sep. 01, 2020	
3	Test Cable	emci	EMCRG400-BM-N M-10000	170628	Jul. 16, 2020	
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 21, 2021	
5	50Ω Terminator	SHX	TF2-1G-A	17051602	Mar. 21, 2021	
6	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 21, 2021	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

	Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Loop Antenna	EMCI	EMCI LPA600	275	Apr. 02, 2021	
2	EMI Test Receiver	R&S	ESCI	100082	Mar. 21, 2021	
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

	Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	719	Apr. 02, 2021	
2	Pre-Amplifier	emci	EMC9135	980400	Mar. 21, 2021	
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	May. 06, 2021	
4	Test Cable	emci	EMC104-SM-SM-7 000	170330	Apr. 13, 2021	
5	Test Cable	emci	EMC104-SM-SM-1 000	170331	Apr. 13, 2021	
6	Test Cable	emci	EMC104-SM-NM-3 500	170621	Apr. 13, 2021	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	



	Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	9120D	00206960	Apr. 02, 2021	
2	Pre-Amplifier	emci	EMC012645SE	980421	May. 11, 2021	
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480545	Mar. 21, 2021	
4	Test Cable	emci	EMC104-SM-SM-7 000	170330	Apr. 13, 2021	
5	Test Cable	emci	EMC104-SM-SM-1 000	170331	Apr. 13, 2021	
6	Test Cable	emci	EMC104-SM-NM-3 500	170621	Apr. 13, 2021	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
8	MXE EMI Receiver	Keysight	N9038A	MY57150106	May. 06, 2021	
9	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3116C	00203919	Mar. 21, 2021	
10	Pre-Amplifier	emci	EMC184045SE	980409	Mar. 21, 2021	
11	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 21, 2021	
12	Test Cable	emci	EMC102-KM-KM-8 00	170654	Apr. 13, 2021	
13	Test Cable	emci	Super Reliable-40G-SS11- 7000	W0030860001	Apr. 13, 2021	
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

	Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP40	100626	May. 06, 2021	

Maximum Output Power									
Item Kind of Equipment Manufacturer Type No. Serial No. Calib									
1	Peak Power Analyze Keysight		8990B	MY51000507	Mar. 21, 2021				
2	Wideband Power Sensor Keysigh		N9123A	MY58310003	Mar. 21, 2021				

Antenna Conducted Spurious Emissions								
Item	tem Kind of Equipment Manufacturer Type No. Serial No. Calibrated							
1	Spectrum Analyzer	R&S	FSP40	100626	May. 06, 2021			

Power Spectral Density									
Item	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated of the Control of Equipment Manufacturer Type No.								
1	Spectrum Analyzer	R&S	FSP40	100626	May. 06, 2021				

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

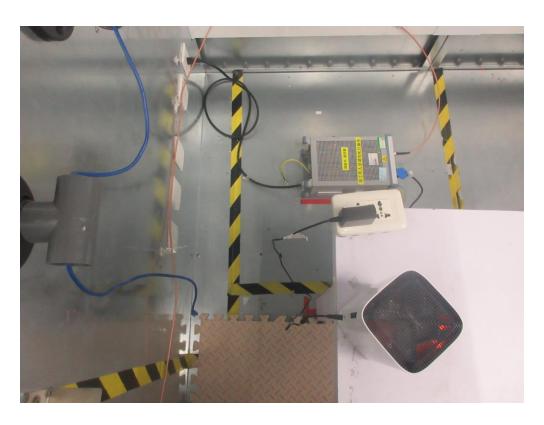
All calibration period of equipment list is one year.



10. EUT TEST PHOTO

Conducted Emissions Test Photos

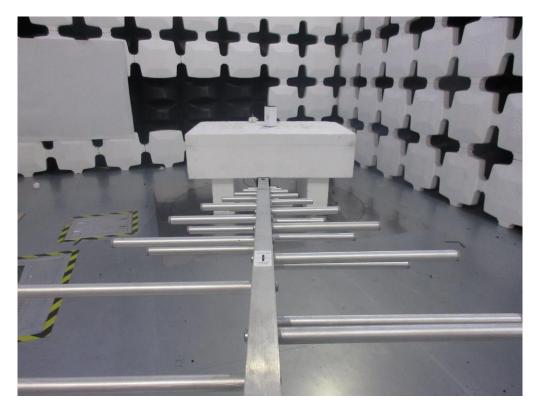


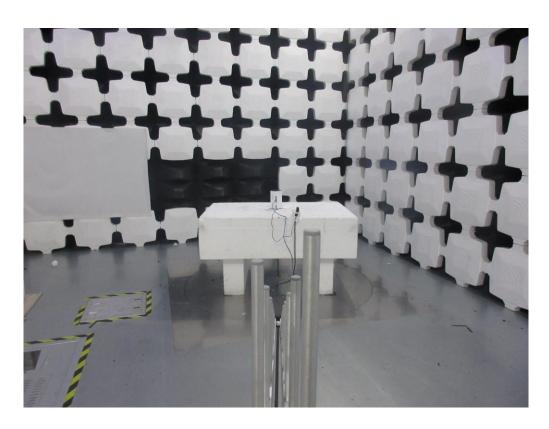




Radiated Emissions Test Photos

30 MHz to 1 GHz



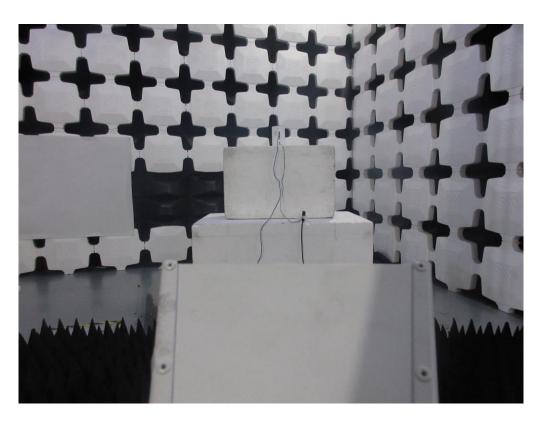




Radiated Emissions Test Photos

Above 1 GHz



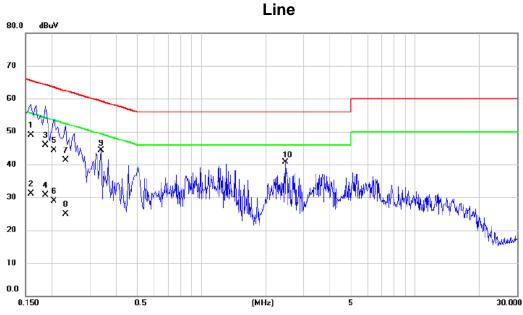




APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS



Test Mode: TX Mode Adapter: S12A12-120A100-CJ



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1590	39.10	9.74	48.84	65.52	-16.68	QP	
2	0.1590	21.40	9.74	31.14	55.52	-24.38	AVG	
3	0.1860	36.10	9.77	45.87	64.21	-18.34	QP	
4	0.1860	21.00	9.77	30.77	54.21	-23.44	AVG	
5	0.2040	34.60	9.78	44.38	63.45	-19.07	QP	
6	0.2040	19.10	9.78	28.88	53.45	-24.57	AVG	
7	0.2310	31.50	9.79	41.29	62.41	-21.12	QP	
8	0.2310	15.10	9.79	24.89	52.41	-27.52	AVG	
9 *	0.3390	34.56	9.83	44.39	59.23	-14.84	peak	
10	2.4765	30.88	9.82	40.70	56.00	-15.30	peak	

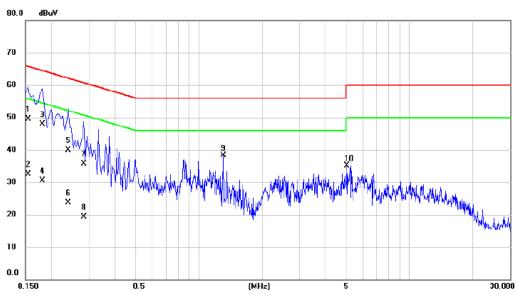
REMARKS:

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



Test Mode: TX Mode Adapter: S12A12-120A100-CJ

Neutral



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1544	39.80	9.61	49.41	65.76	-16.35	QP	
2	0.1544	22.80	9.61	32.41	55.76	-23.35	AVG	
3	0.1814	38.20	9.63	47.83	64.42	-16.59	QP	
4	0.1815	20.90	9.63	30.53	54.42	-23.89	AVG	
5	0.2400	30.20	9.63	39.83	62.10	-22.27	QP	
6	0.2400	14.10	9.63	23.73	52.10	-28.37	AVG	
7	0.2850	26.10	9.65	35.75	60.67	-24.92	QP	
8	0.2850	9.70	9.65	19.35	50.67	-31.32	AVG	
9	1.3110	28.49	9.74	38.23	56.00	-17.77	peak	
10	5.0280	25.24	9.94	35.18	60.00	-24.82	peak	

REMARKS:

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



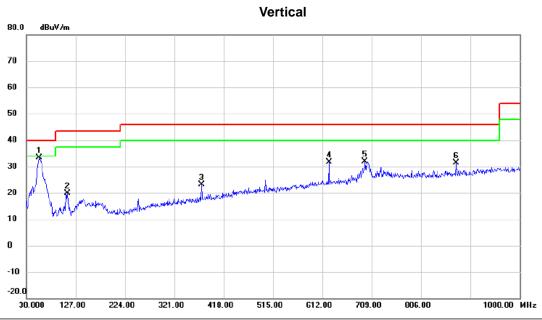
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	
Note: Below 30MHz, The measured value have enough margin over 20dB than the limit, therefore they are not reported	



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ



Test Mode: TX Mode Adapter: S12A12-120A100-CJ



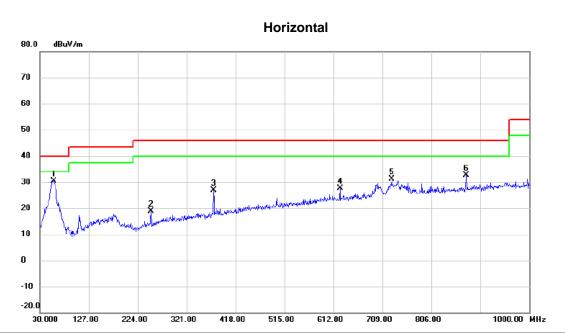
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	55.7050	50.08	-16.61	33.47	40.00	-6.53	peak	
2		110.5100	39.15	-19.20	19.95	43.50	-23.55	peak	
3		374.8350	36.14	-13.11	23.03	46.00	-22.97	peak	
4		625.0950	39.33	-7.75	31.58	46.00	-14.42	peak	
5		695.9050	38.78	-6.83	31.95	46.00	-14.05	peak	
6		874.8700	36.06	-4.66	31.40	46.00	-14.60	peak	

REMARKS:

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



TX Mode Test Mode: Adapter: S12A12-120A100-CJ



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	57.6450	47.11	-16.71	30.40	40.00	-9.60	peak	
2		250.1900	35.61	-16.67	18.94	46.00	-27.06	peak	
3		374.8350	39.89	-13.11	26.78	46.00	-19.22	peak	
4		625.0950	35.34	-7.75	27.59	46.00	-18.41	peak	
5		727.9150	37.33	-6.25	31.08	46.00	-14.92	peak	
6		874.8700	37.32	-4.66	32.66	46.00	-13.34	peak	

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

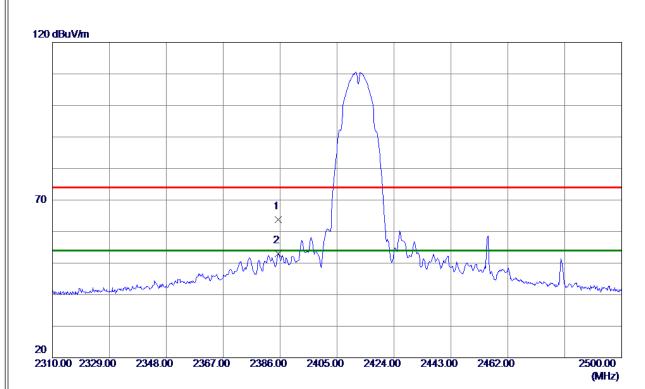


APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ



Test Mode: TX B Mode 2412 MHz

Vertical



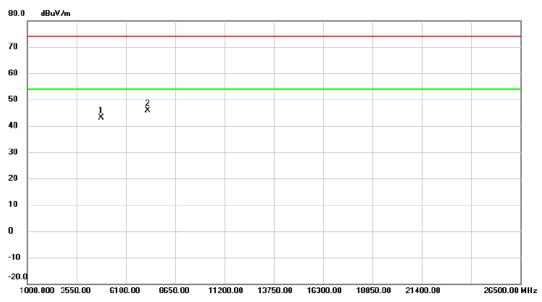
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2385. 4300	30. 56	33. 34	63. 90	74.00	-10. 10	Peak	
2 *	2385. 4300	19. 76	33. 34	53. 10	54.00	-0. 90	AVG	

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



Test Mode: TX B Mode 2412 MHz

Vertical



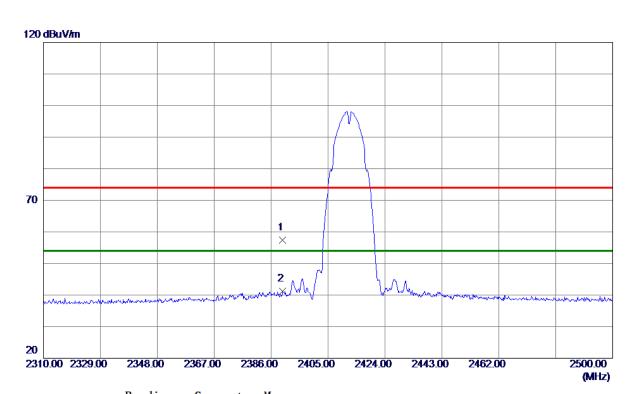
No.	No. Mk.				Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4	825.000	56.09	-13.02	43.07	74.00	-30.93	peak	
2	* 7	234.750	51.73	-5.83	45.90	74.00	-28.10	peak	

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



Test Mode: TX B Mode 2412 MHz

Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2389.8000	24.06	33. 36	57.42	74.00	-16. 58	Peak	
2 *	2389. 8000	7.83	33. 36	41. 19	54.00	-12.81	AVG	

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



Test Mode: TX B Mode 2412 MHz

Horizontal



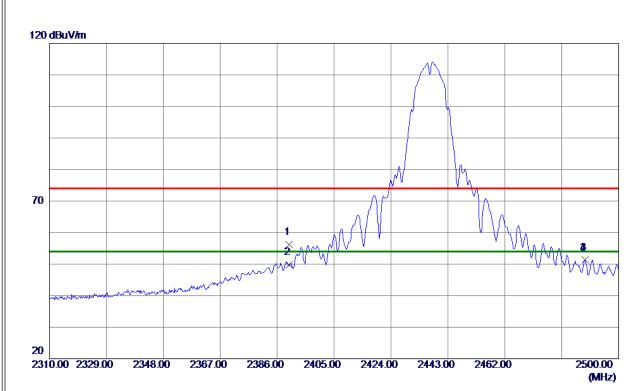
No.	N	Λk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4	825.000	58.93	-13.02	45.91	74.00	-28.09	peak	
2		7	236.000	51.36	-5.83	45.53	74.00	-28.47	peak	

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



TX B Mode 2437 MHz Test Mode:

Vertical



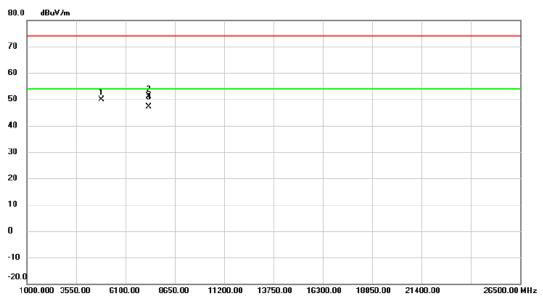
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	22.85	33. 36	56. 21	74.00	-17.79	Peak	
2	2390.0000	16. 53	33. 36	49.89	54.00	-4.11	AVG	
3	2488.7900	17. 52	33. 78	51. 30	74.00	-22.70	Peak	
4 *	2488. 7900	17. 52	33. 78	51. 30	54.00	-2.70	AVG	

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



Test Mode: TX B Mode 2437 MHz

Vertical



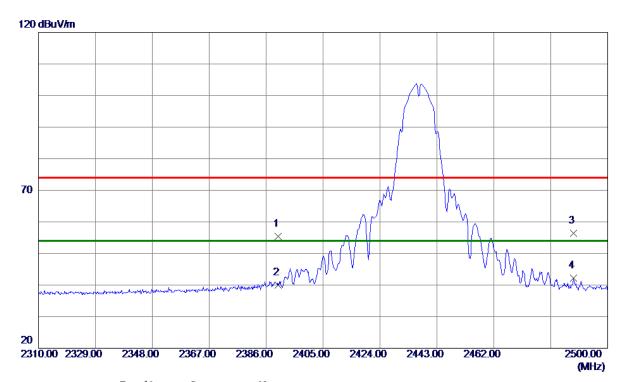
No.	Mk	c. Freq.			Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.450	62.82	-12.87	49.95	74.00	-24.05	peak	
2		7311.250	56.73	-5.57	51.16	74.00	-22.84	peak	
3	*	7311.250	52.78	-5.57	47.21	54.00	-6.79	AVG	

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



Test Mode: TX B Mode 2437 MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	22.06	33. 36	55. 42	74.00	-18.58	Peak	
2	2390.0000	6. 67	33. 36	40.03	54.00	-13.97	AVG	
3	2488. 6000	22. 68	33. 78	56. 46	74.00	-17.54	Peak	
4 *	2488. 6000	8. 35	33. 78	42. 13	54.00	-11.87	AVG	

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



Test Mode: TX B Mode 2437 MHz

Horizontal



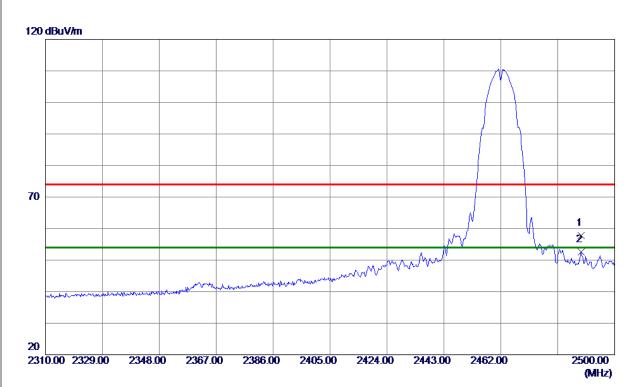
No.	Mk	. Freq.	Reading Level		Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.450	66.54	-12.87	53.67	74.00	-20.33	peak	
2	*	4873.450	65.05	-12.87	52.18	54.00	-1.82	AVG	
3		7308.700	54.47	-5.58	48.89	74.00	-25.11	peak	

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



TX B Mode 2462 MHz Test Mode:

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2488. 8850	24. 03	33. 78	57.81	74.00	-16. 19	Peak	
2 *	2488. 8850	18. 83	33. 78	52. 61	54.00	-1. 39	AVG	

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



Test Mode: TX B Mode 2462 MHz

Vertical



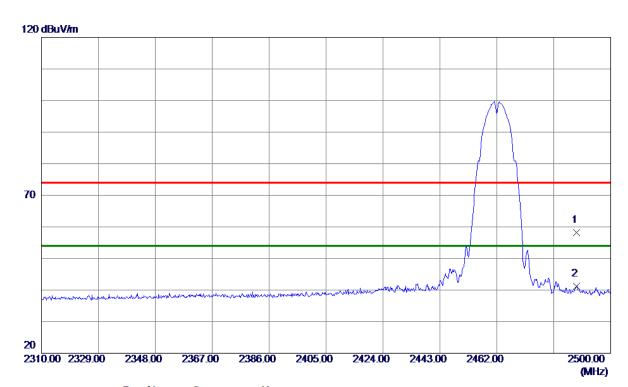
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924. 4500	57.61	-12.71	44. 90	74.00	-29. 10	Peak	
2 *	7385. 2000	52. 14	-5. 32	46.82	74.00	-27. 18	Peak	

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



Test Mode: TX B Mode 2462 MHz

Horizontal



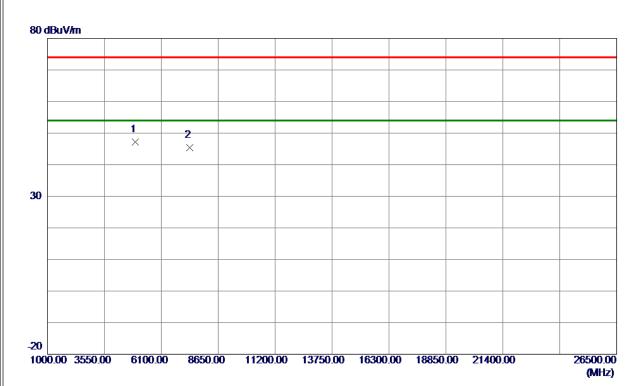
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2488.6000	24.45	33. 78	58. 23	74.00	-15.77	Peak	
2 *	2488. 6000	7.43	33. 78	41. 21	54.00	-12.79	AVG	

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



Test Mode: TX B Mode 2462 MHz

Horizontal



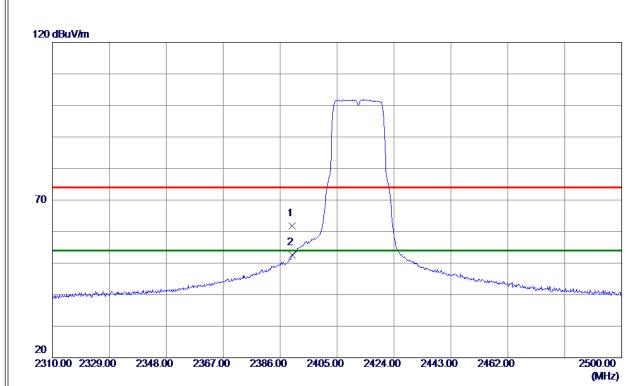
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924. 4500	60.00	-12.71	47. 29	74.00	-26.71	Peak	
2	7387. 7500	50.80	-5. 31	45. 49	74.00	-28. 51	Peak	

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



TX G Mode 2412 MHz Test Mode:

Vertical



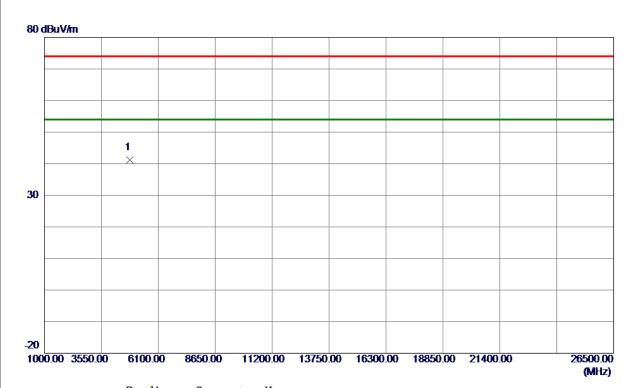
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	28. 47	33. 36	61.83	74.00	-12. 17	Peak	
2 *	2390. 0000	19. 15	33. 36	52. 51	54.00	-1. 49	AVG	

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



Test Mode: TX G Mode 2412 MHz

Vertical



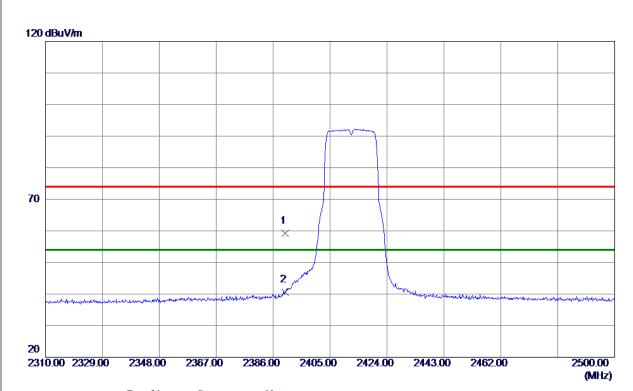
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4822. 4500	54. 24	-13. 03	41.21	74.00	-32.79	Peak		

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



Test Mode: TX G Mode 2412 MHz

Horizontal



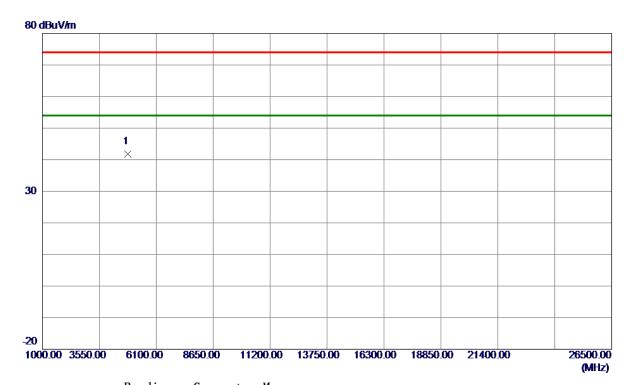
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	25. 90	33. 36	59. 26	74.00	-14.74	Peak	
2 *	2390.0000	7. 20	33. 36	40. 56	54.00	-13.44	AVG	

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



Test Mode: TX G Mode 2412 MHz

Horizontal



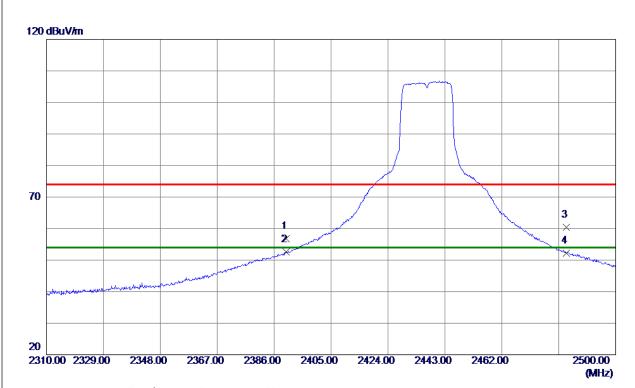
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4830. 1000	54.86	-13.00	41.86	74.00	-32. 14	Peak		

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



TX G Mode 2437 MHz Test Mode:

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	23. 45	33. 36	56. 81	74.00	-17.19	Peak	
2 *	2390.0000	19. 23	33. 36	52. 59	54.00	-1.41	AVG	
3	2483. 5000	26. 55	33. 76	60.31	74.00	-13.69	Peak	
4	2483. 5000	18. 47	33. 76	52. 23	54.00	-1.77	AVG	

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



Test Mode: TX G Mode 2437 MHz

Vertical



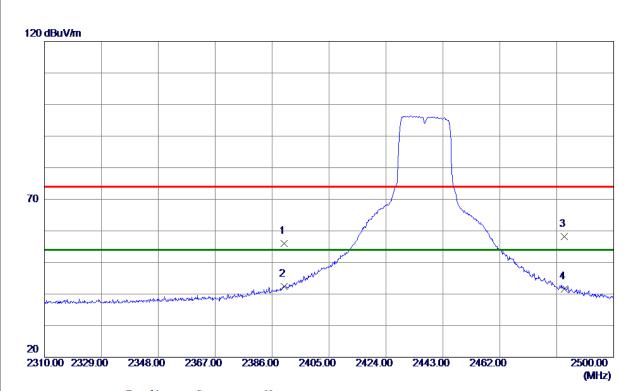
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4868.3500	57. 30	-12.89	44.41	74.00	-29.59	Peak	
2 *	7311. 2500	51.94	-5. 57	46. 37	74.00	-27.63	Peak	

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



Test Mode: TX G Mode 2437 MHz

Horizontal



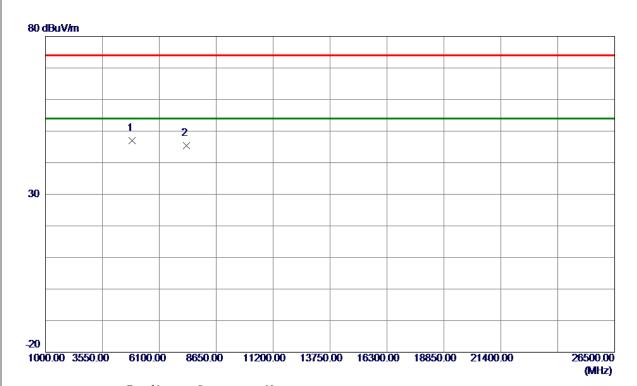
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	22. 66	33. 36	56. 02	74.00	-17.98	Peak	
2 *	2390.0000	8. 97	33. 36	42. 33	54.00	-11.67	AVG	
3	2483. 5000	24. 51	33. 76	58. 27	74.00	-15.73	Peak	
4	2483. 5000	7. 90	33. 76	41.66	54.00	-12.34	AVG	

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



Test Mode: TX G Mode 2437 MHz

Horizontal



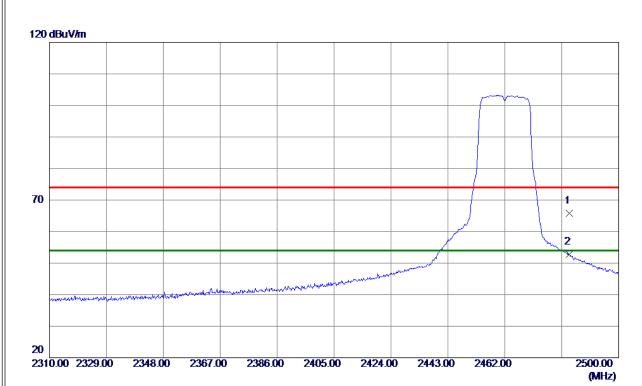
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4868.3500	59. 90	-12.89	47.01	74.00	-26. 99	Peak	
2	7306. 1500	50. 90	-5. 59	45. 31	74.00	-28. 69	Peak	

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



TX G Mode 2462 MHz Test Mode:

Vertical



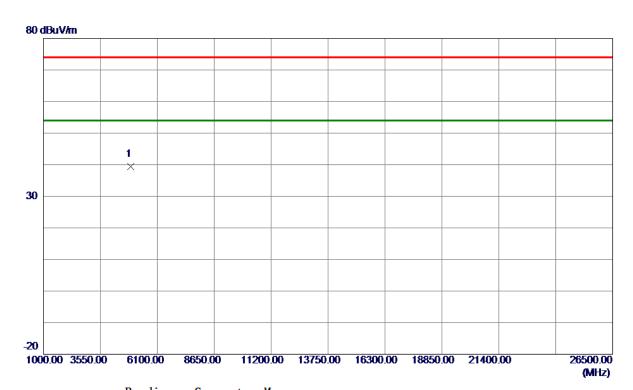
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2483. 5000	32. 03	33. 76	65. 79	74.00	-8. 21	Peak	
2 *	2483. 5000	19. 08	33. 76	52.84	54.00	-1. 16	AVG	

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



Test Mode: TX G Mode 2462 MHz

Vertical



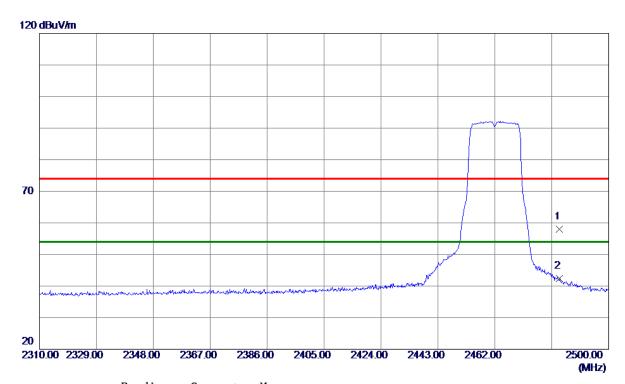
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4924. 0000	52. 13	-12.71	39. 42	74.00	-34. 58	Peak		

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



Test Mode: TX G Mode 2462 MHz

Horizontal



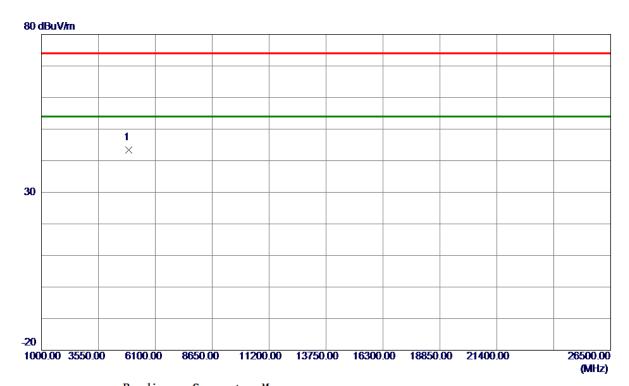
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2483. 5000	24. 19	33. 76	57. 95	74.00	-16.05	Peak	
2 *	2483. 5000	8. 69	33. 76	42. 45	54.00	-11.55	AVG	

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



Test Mode: TX G Mode 2462 MHz

Horizontal



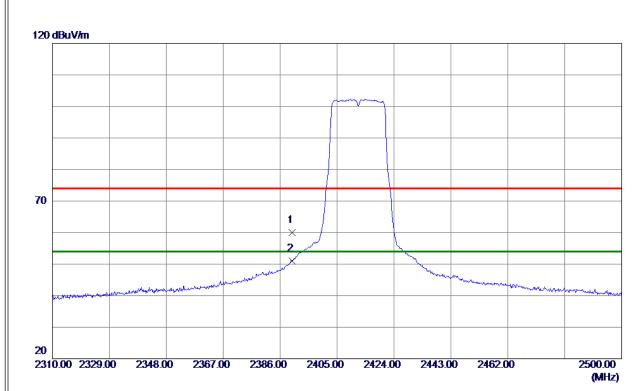
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4921. 9000	56. 21	-12.72	43. 49	74.00	-30. 51	Peak		

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



Test Mode: TX N-20M Mode 2412 MHz

Vertical



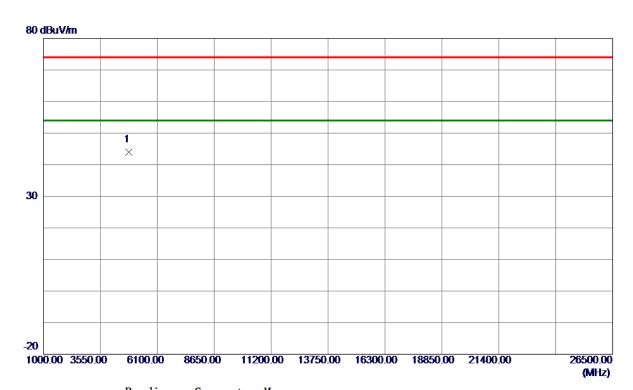
No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	26.66	33. 36	60.02	74.00	-13.98	Peak	
2 *	2390. 0000	17. 69	33. 36	51.05	54.00	-2.95	AVG	

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



Test Mode: TX N-20M Mode 2412 MHz

Vertical



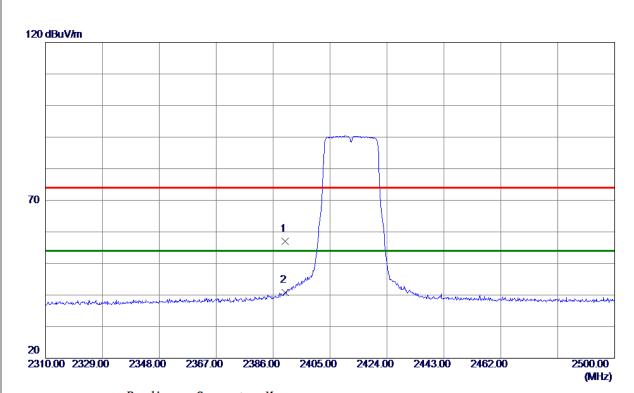
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4819. 9000	57. 03	-13. 03	44.00	74.00	-30.00	Peak		

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



Test Mode: TX N-20M Mode 2412 MHz

Horizontal



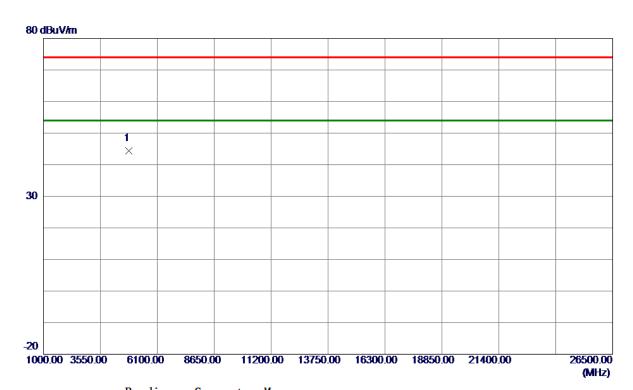
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	23.66	33. 36	57.02	74.00	-16. 98	Peak	
2 *	2390. 0000	7.45	33. 36	40.81	54.00	-13. 19	AVG	

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



Test Mode: TX N-20M Mode 2412 MHz

Horizontal



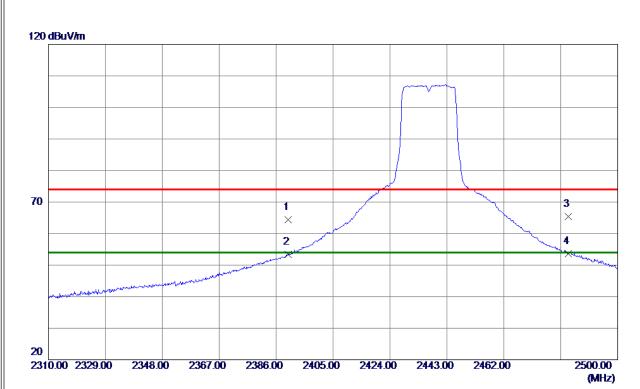
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4832. 6500	57.45	-13.00	44. 45	74.00	-29. 55	Peak		

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



Test Mode: TX N-20M Mode 2437 MHz

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	31. 13	33. 36	64. 49	74.00	-9.51	Peak	
2	2390.0000	20. 03	33. 36	53. 39	54.00	-0.61	AVG	
3	2483. 5000	31.66	33. 76	65. 42	74.00	-8.58	Peak	
4 *	2483. 5000	19. 75	33. 76	53. 51	54.00	-0.49	AVG	

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

(MHz)



Test Mode: TX N-20M Mode 2437 MHz

Vertical



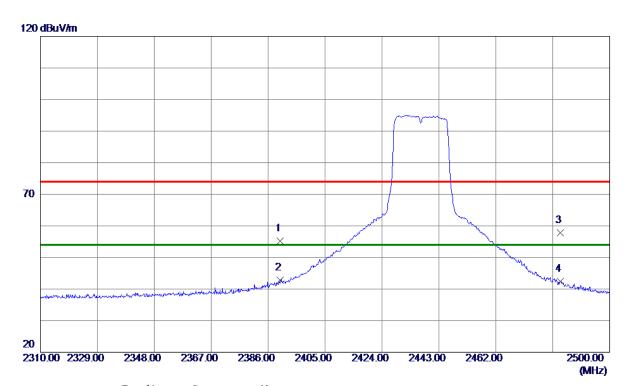
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4868. 3500	55.85	-12.89	42.96	74.00	-31.04	Peak	
2 *	7316. 3500	53. 91	-5. 55	48. 36	74.00	-25. 64	Peak	

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



Test Mode: TX N-20M Mode 2437 MHz

Horizontal



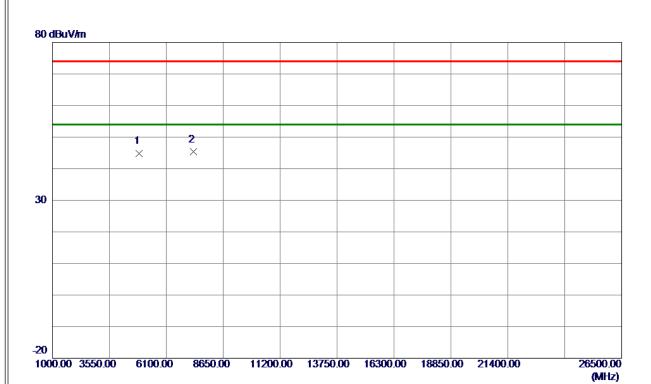
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	21. 90	33. 36	55. 26	74.00	-18.74	Peak	
2 *	2390.0000	9. 37	33. 36	42.73	54.00	-11. 27	AVG	
3	2483. 5000	24.06	33. 76	57.82	74.00	-16. 18	Peak	
4	2483. 5000	8. 70	33. 76	42.46	54.00	-11.54	AVG	

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



Test Mode: TX N-20M Mode 2437 MHz

Horizontal



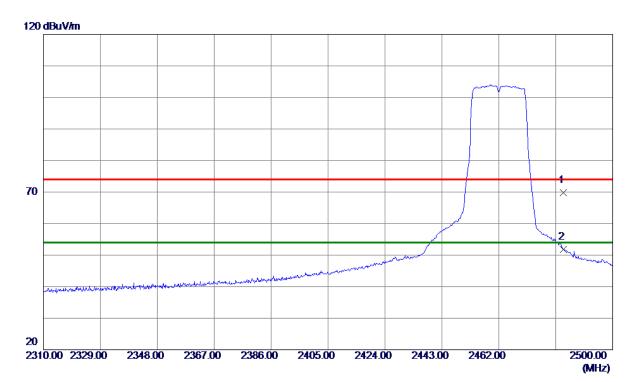
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4870.9000	57. 59	-12.88	44.71	74.00	-29. 29	Peak	
2 *	7313. 8000	50.86	-5. 56	45. 30	74.00	-28. 70	Peak	

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



Test Mode: TX N-20M Mode 2462 MHz

Vertical



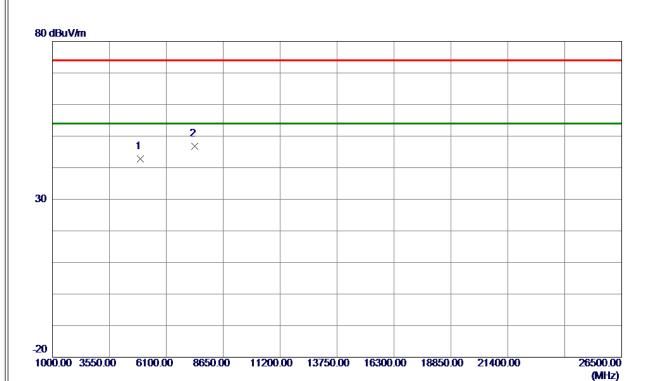
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2483. 5000	36. 12	33. 76	69. 88	74.00	-4.12	Peak	
2 *	2483. 5000	18. 12	33. 76	51. 88	54.00	-2. 12	AVG	

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



Test Mode: TX N-20M Mode 2462 MHz

Vertical



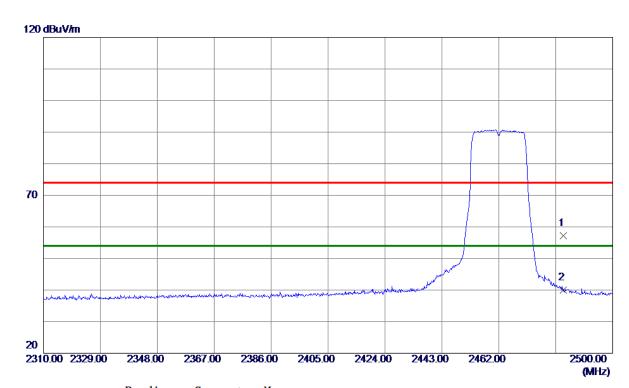
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924. 4500	55. 57	-12.71	42.86	74.00	-31.14	Peak	
2 *	7387. 7500	52. 12	-5. 31	46.81	74.00	-27. 19	Peak	

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



Test Mode: TX N-20M Mode 2462 MHz

Horizontal



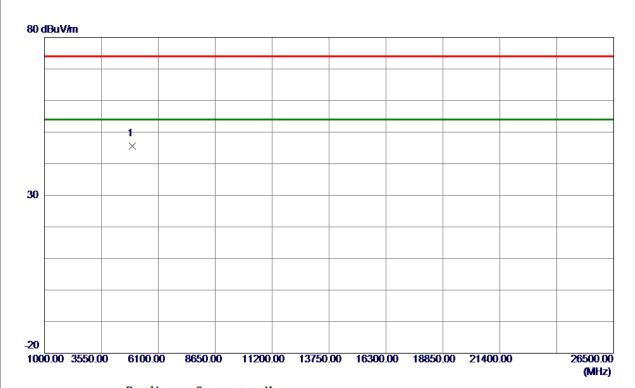
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2483. 5000	23. 36	33. 76	57. 12	74.00	-16.88	Peak	
2 *	2483. 5000	6. 19	33. 76	39. 95	54.00	-14.05	AVG	

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



Test Mode: TX N-20M Mode 2462 MHz

Horizontal



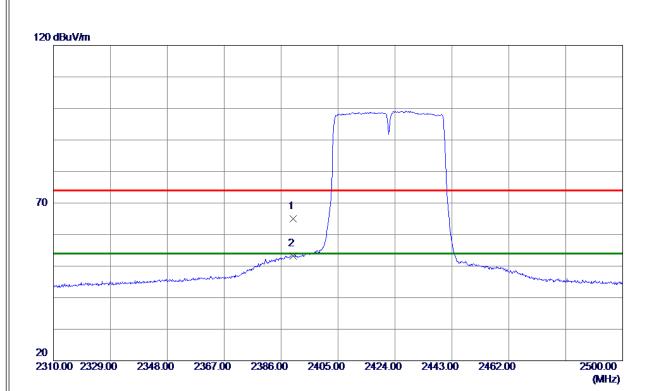
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4929. 5500	58. 23	-12.70	45. 53	74.00	-28.47	Peak	

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



Test Mode: TX N-40M Mode 2422MHz

Vertical



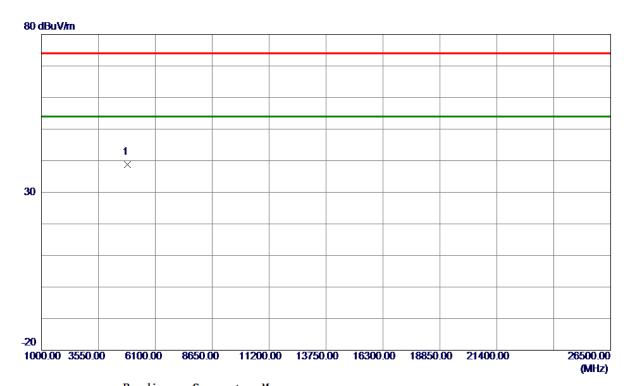
No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	31. 58	33. 36	64.94	74.00	-9.06	Peak	
2 *	2390.0000	19.80	33. 36	53. 16	54.00	-0.84	AVG	

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



Test Mode: TX N-40M Mode 2422MHz

Vertical



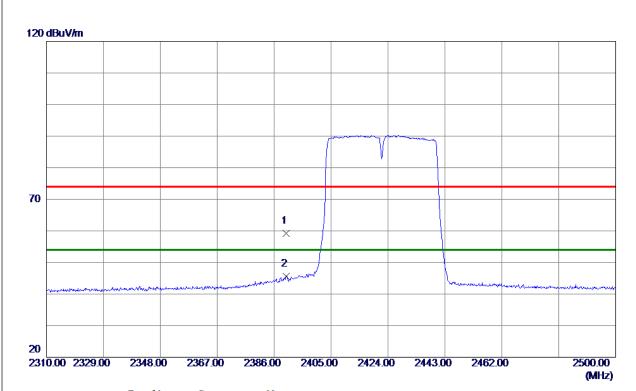
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4844. 0000	51.84	-12. 96	38. 88	74.00	-35. 12	Peak		

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



Test Mode: TX N-40M Mode 2422MHz

Horizontal



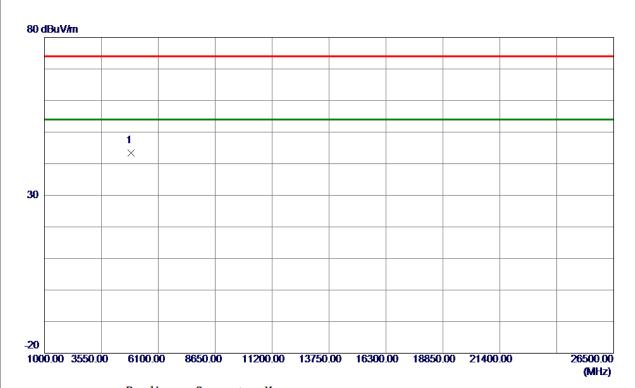
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	25. 78	33. 36	59. 14	74.00	-14.86	Peak	
2 *	2390. 0000	12. 19	33. 36	45. 55	54.00	-8. 45	AVG	

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



Test Mode: TX N-40M Mode 2422MHz

Horizontal



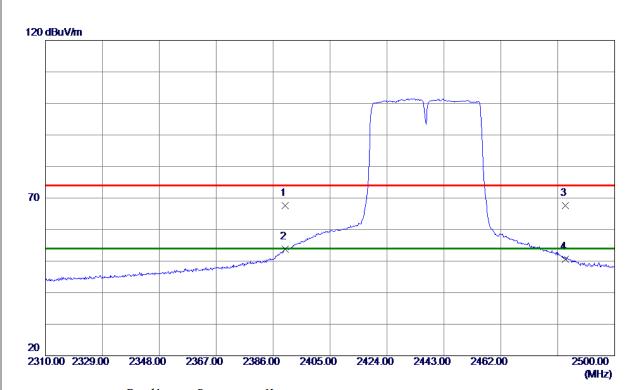
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4870. 9000	56. 26	-12.88	43. 38	74.00	-30.62	Peak	

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



Test Mode: TX N-40M Mode 2437 MHz

Vertical



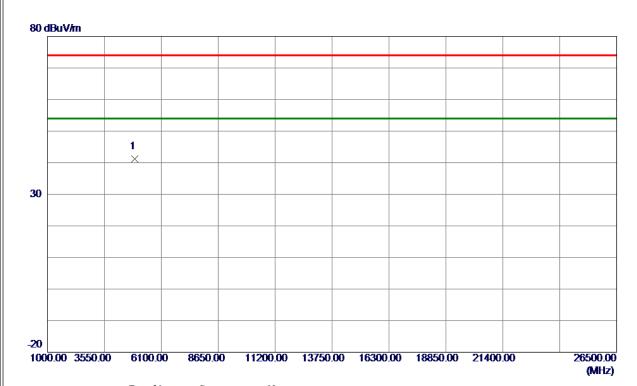
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	34. 33	33. 36	67.69	74.00	-6. 31	Peak	
2 *	2390.0000	20.41	33. 36	53.77	54.00	-0. 23	AVG	
3	2483. 5000	33.85	33. 76	67.61	74.00	-6. 39	Peak	
4	2483. 5000	16. 80	33. 76	50. 56	54.00	-3.44	AVG	

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



Test Mode: TX N-40M Mode 2437 MHz

Vertical



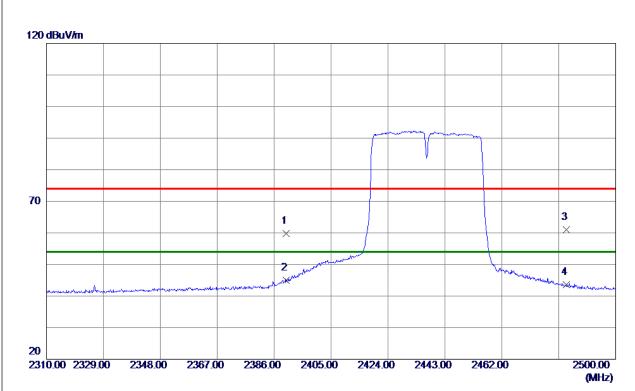
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4898. 9500	53. 97	-12.79	41. 18	74.00	-32.82	Peak		

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



Test Mode: TX N-40M Mode 2437 MHz

Horizontal



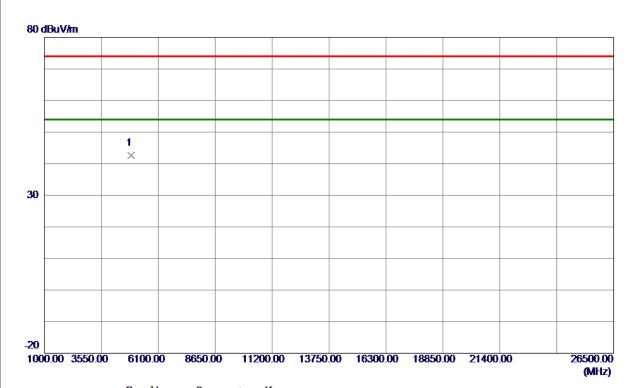
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	26. 36	33. 36	59. 72	74.00	-14.28	Peak	
2 *	2390.0000	11.70	33. 36	45.06	54.00	-8.94	AVG	
3	2483. 5000	27. 17	33. 76	60. 93	74.00	-13.07	Peak	
4	2483. 5000	9.89	33. 76	43.65	54.00	-10.35	AVG	

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



Test Mode: TX N-40M Mode 2437 MHz

Horizontal



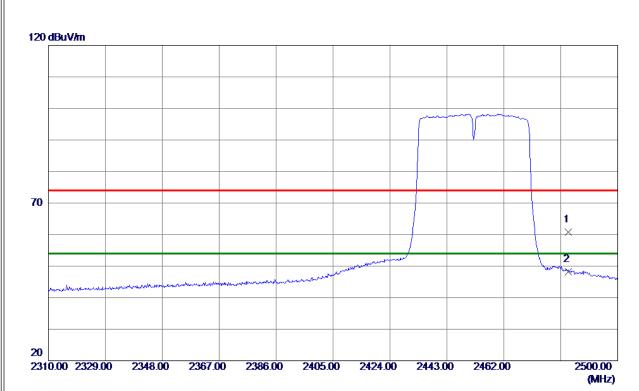
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4893.8500	55. 46	-12.81	42.65	74.00	-31. 35	Peak	

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



TX N-40M Mode 2452 MHz Test Mode:

Vertical



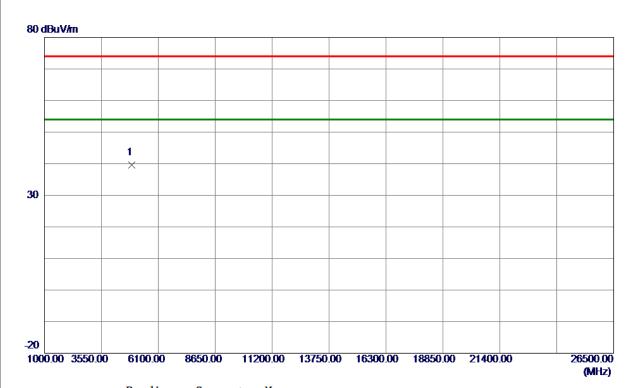
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2483. 5000	26. 97	33. 76	60.73	74.00	-13. 27	Peak	
2 *	2483. 5000	14. 35	33. 76	48. 11	54.00	-5. 89	AVG	

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



Test Mode: TX N-40M Mode 2452 MHz

Vertical



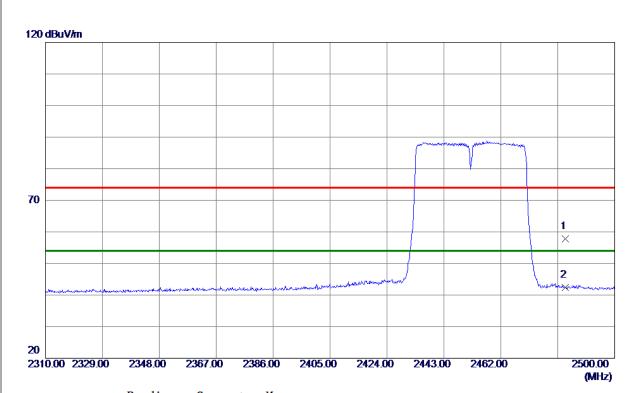
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4904.0000	52. 33	-12. 78	39. 55	74.00	-34.45	Peak		

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



Test Mode: TX N-40M Mode 2452 MHz

Horizontal



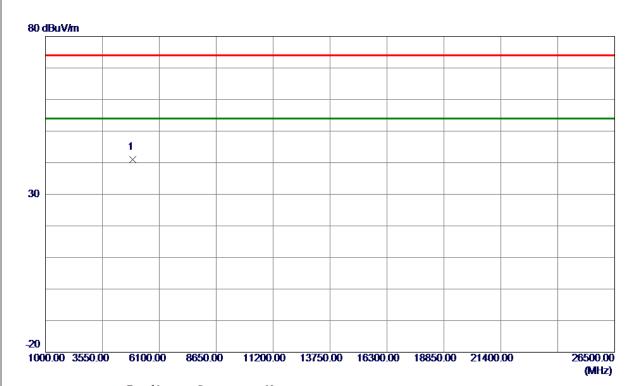
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2483. 5000	24. 08	33. 76	57.84	74.00	-16. 16	Peak	
2 *	2483. 5000	8. 69	33. 76	42. 45	54.00	-11.55	AVG	

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



Test Mode: TX N-40M Mode 2452 MHz

Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4904.0000	53. 70	-12. 78	40.92	74.00	-33 . 0 8	Peak	

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



APPENDIX E - BANDWIDTH



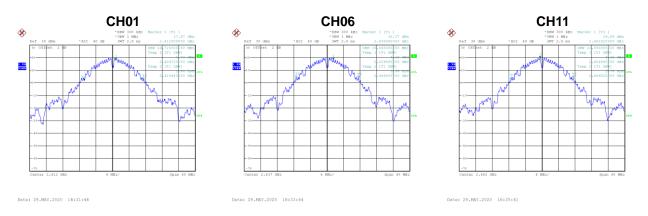
Non-Beamforming

Test Mode	TX B Mode
TEST MODE	

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	9.12	500	Complies
06	2437	8.56	500	Complies
11	2462	9.11	500	Complies



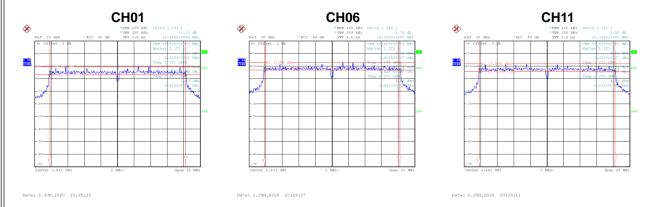
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	14.72	Complies
06	2437	15.04	Complies
11	2462	14.88	Complies



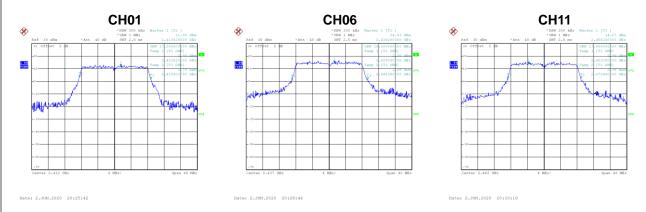


Test Mode	TX G Mode
100t Wood	11X O Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	16.42	500	Complies
06	2437	16.40	500	Complies
11	2462	16.40	500	Complies



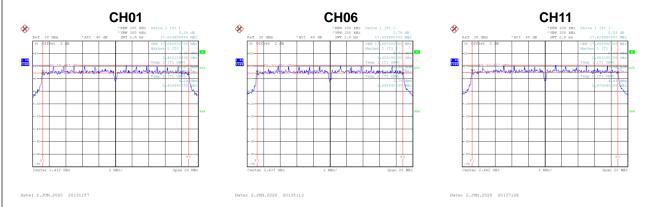
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	17.28	Complies
06	2437	18.32	Complies
11	2462	17.68	Complies



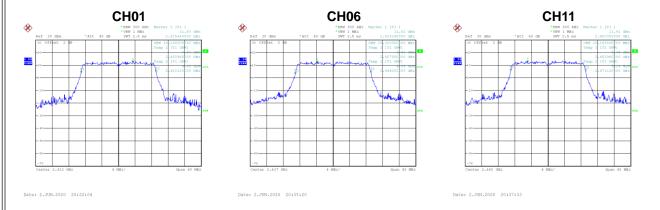


Test Mode	TX N-20M Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	17.62	500	Complies
06	2437	17.64	500	Complies
11	2462	17.64	500	Complies



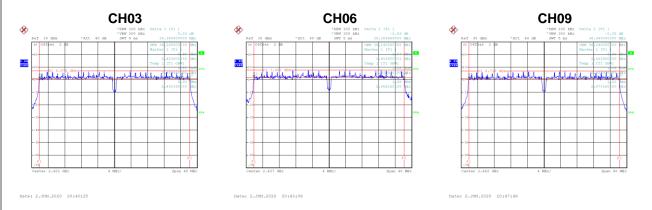
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	18.16	Complies
06	2437	18.32	Complies
11	2462	18.16	Complies





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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
03	2422	36.36	500	Complies
06	2437	36.39	500	Complies
09	2452	36.44	500	Complies



Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
03	2422	37.12	Complies
06	2437	37.92	Complies
09	2452	37.12	Complies





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Non-Beamforming

Test Mode

Channel	Frequency (MHz)	Avg Output Power (dBm)	1 11 11 17 17	Output Power + Duty Factor (dBm)	IVIOV I IMIT	Max. Limit (W)	Result
01	2412	21.29	0.21	21.50	30.00	1.0000	Complies
06	2437	24.74	0.21	24.95	30.00	1.0000	Complies
11	2462	20.56	0.21	20.77	30.00	1.0000	Complies

Test Mode	ITX G Mode	
Hest Mode	IIA G MOGE	

Channel	Frequency (MHz)	Avg Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	IVIOV I IMIT	Max. Limit (W)	Result
01	2412	17.91	0.23	18.14	30.00	1.0000	Complies
06	2437	21.90	0.23	22.13	30.00	1.0000	Complies
11	2462	18.24	0.23	18.47	30.00	1.0000	Complies



Test Mode	TX N-20M Mode_	Ant. 1
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Channel	Frequency (MHz)	Avg Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)		Max. Limit (W)	Result
01	2412	15.94	0.46	16.40	30.00	1.0000	Complies
06	2437	21.18	0.46	21.64	30.00	1.0000	Complies
11	2462	17.87	0.46	18.33	30.00	1.0000	Complies

Test Mode	TX N-20M Mode Ant. :	2
TEST MIDGE	IIA IN-ZUIVI IVIUUE AIII. A	_

Channel	Frequency (MHz)	Avg Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)		Max. Limit (W)	Result
01	2412	15.52	0.46	15.98	30.00	1.0000	Complies
06	2437	20.21	0.46	20.67	30.00	1.0000	Complies
11	2462	17.37	0.46	17.83	30.00	1.0000	Complies

Test Mode TX N-20M Mode_Tot

Channel	Frequency (MHz)	Avg Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.21	30.00	1.0000	Complies
06	2437	24.19	30.00	1.0000	Complies
11	2462	21.10	30.00	1.0000	Complies



Test Mode	TX N-40M Mode_	Ant.	1
100t Wiodo	1 /	_/ \! ! !	•

Channel	Frequency (MHz)	Avg Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)		Max. Limit (W)	Result
03	2422	15.83	0.88	16.71	30.00	1.0000	Complies
06	2437	16.89	0.88	17.77	30.00	1.0000	Complies
09	2452	13.06	0.88	13.94	30.00	1.0000	Complies

Test Mode TX N-40M Mode_Ant. 2

Channel	Frequency (MHz)	Avg Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	15.48	0.88	16.36	30.00	1.0000	Complies
06	2437	16.46	0.88	17.34	30.00	1.0000	Complies
09	2452	12.65	0.88	13.53	30.00	1.0000	Complies

Test Mode TX N-40M Mode_Total

Channel	Frequency (MHz)	Avg Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	19.55	30.00	1.0000	Complies
06	2437	20.57	30.00	1.0000	Complies
09	2452	16.75	30.00	1.0000	Complies



Beamforming

Test Mode	TX N-20M Mode	Δnt 1
Test Mode	I A IN-ZUIVI IVIUUE	AIII. I

Channel	Frequency (MHz)	Avg Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)		Max. Limit (W)	Result
01	2412	15.70	0.46	16.16	29.99	0.9978	Complies
06	2437	20.85	0.46	21.31	29.99	0.9978	Complies
11	2462	17.45	0.46	17.91	29.99	0.9978	Complies

Hest Mode HX N-20M Mode Ant. 2	Test Mode	TX N-20M Mode Ant. 2	
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Channel	Frequency (MHz)	Avg Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)		Max. Limit (W)	Result
01	2412	15.05	0.46	15.51	29.99	0.9978	Complies
06	2437	19.76	0.46	20.22	29.99	0.9978	Complies
11	2462	17.15	0.46	17.61	29.99	0.9978	Complies

•	Test Mode	TX N-20M Mode_Total
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Channel	Frequency (MHz)	Avg Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.86	29.99	0.9978	Complies
06	2437	23.81	29.99	0.9978	Complies
11	2462	20.77	29.99	0.9978	Complies



Test Mode	TX N-40M Mode_	Ant. 1
1000 111000	17111 10111 111040_	_,

Channel	Frequency (MHz)	Avg Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	15.43	0.88	16.31	29.99	0.9978	Complies
06	2437	16.60	0.88	17.48	29.99	0.9978	Complies
09	2452	12.65	0.88	13.53	29.99	0.9978	Complies

To at Marila	TV NI 40N4 N4 1 - 1 - 4 - 4 - 6	
Test Mode	TX N-40M Mode Ant. 2	_

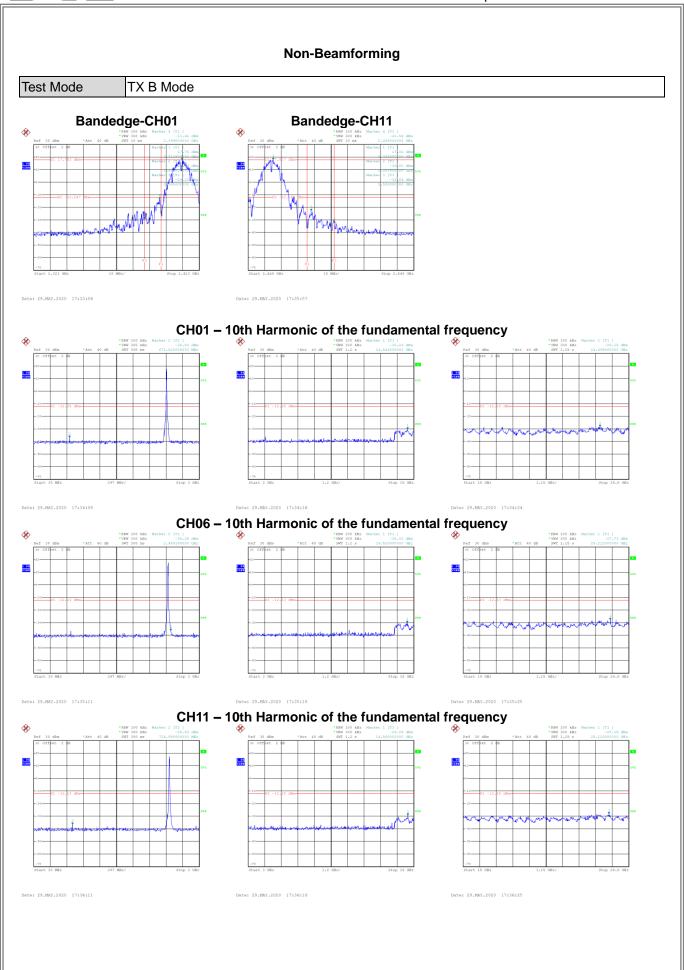
Channel	Frequency (MHz)	Avg Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	15.22	0.88	16.10	29.99	0.9978	Complies
06	2437	16.10	0.88	16.98	29.99	0.9978	Complies
09	2452	12.38	0.88	13.26	29.99	0.9978	Complies

Channel	Frequency (MHz)	Avg Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	19.22	29.99	0.9978	Complies
06	2437	20.25	29.99	0.9978	Complies
09	2452	16.41	29.99	0.9978	Complies

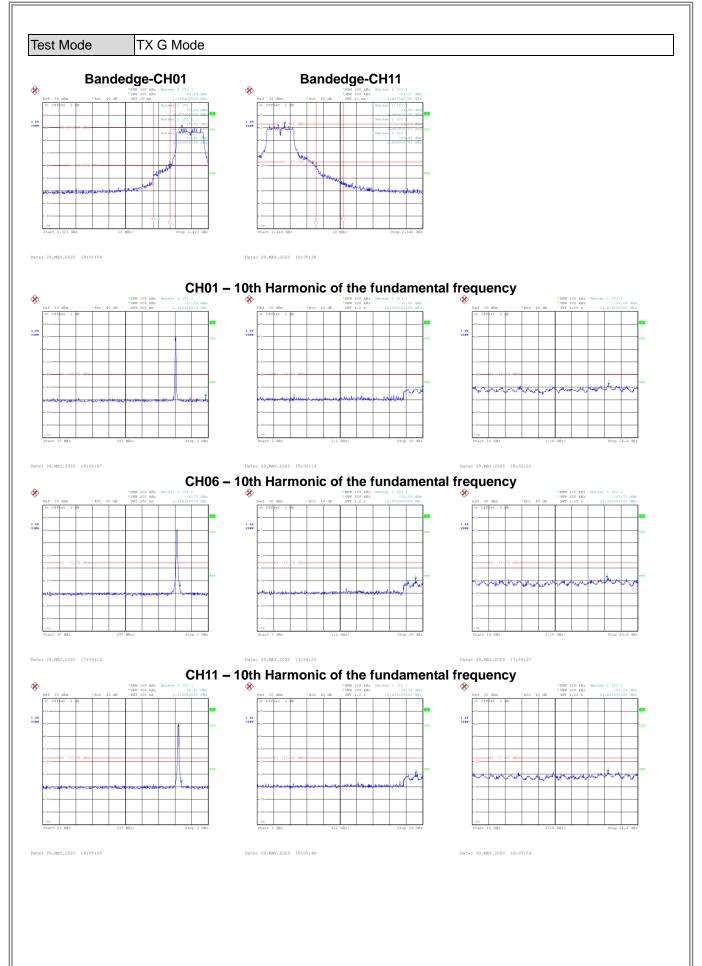


APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

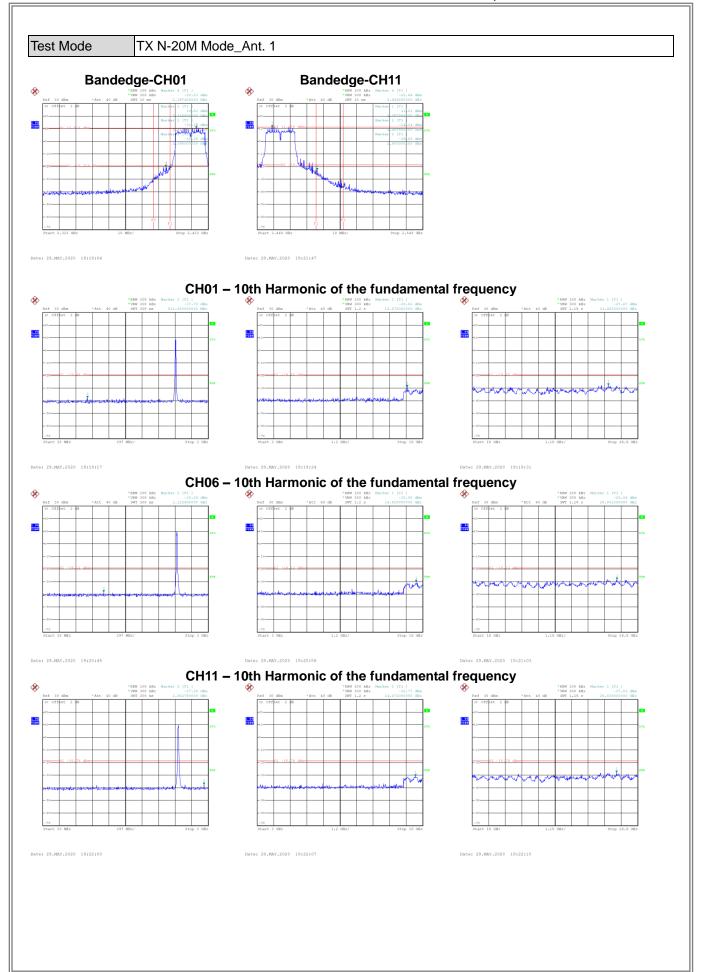




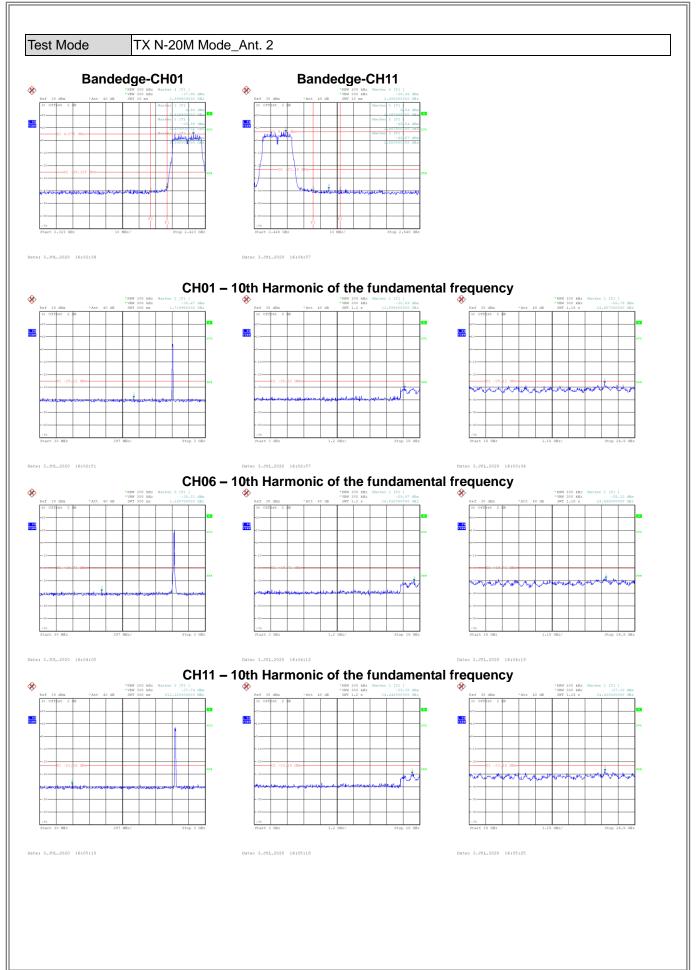




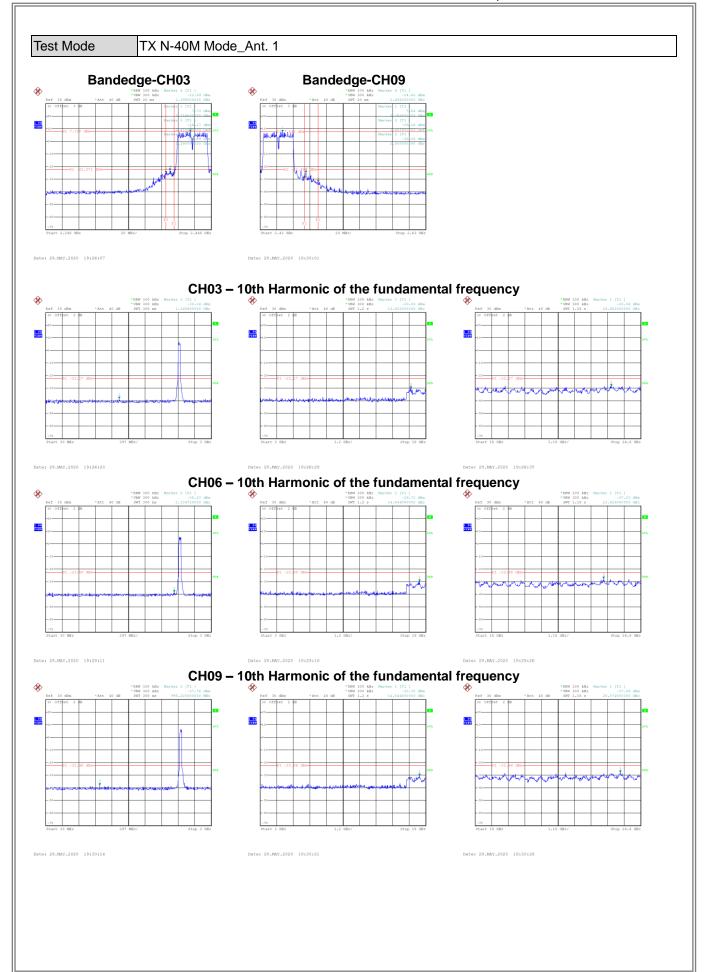




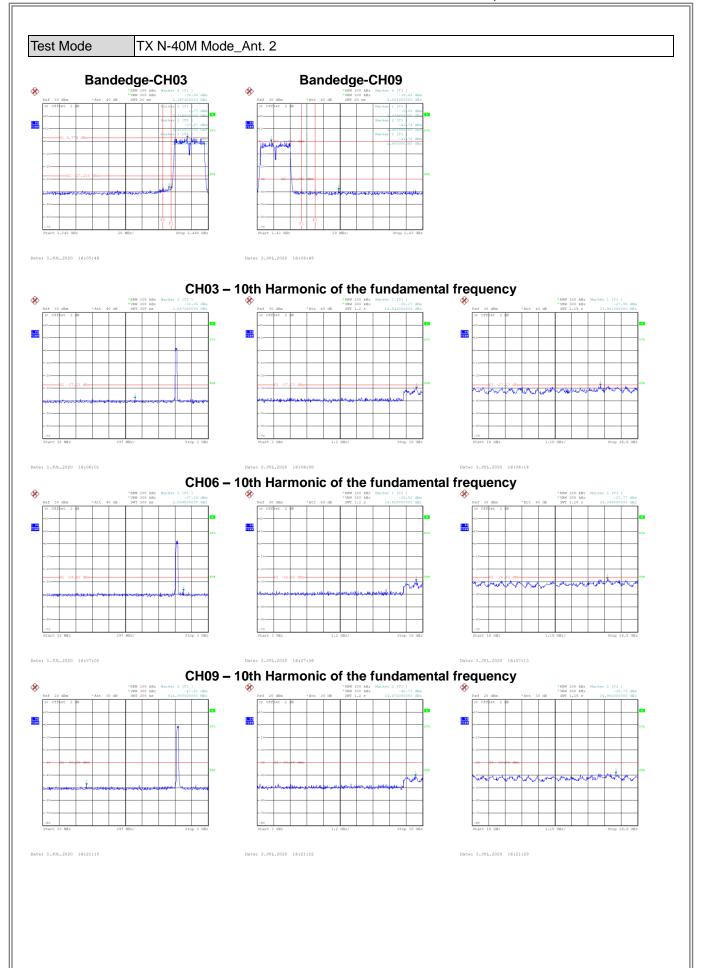














APPENDIX H - POWER SPECTRAL DENSITY



Non-Beamforming

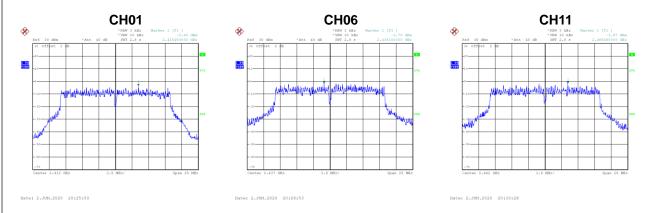
Test Mode	TX B Mode
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	3.59	7.99	Complies
06	2437	4.97	7.99	Complies
11	2462	2.71	7.99	Complies



Test Mode	TX G Mode

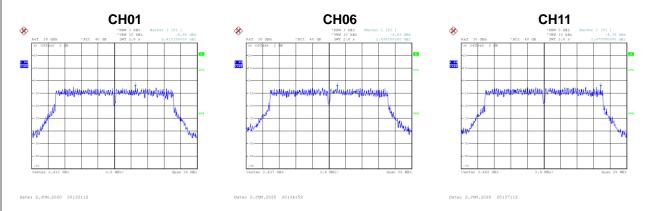
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-3.46	7.99	Complies
06	2437	-1.70	7.99	Complies
11	2462	-1.57	7.99	Complies





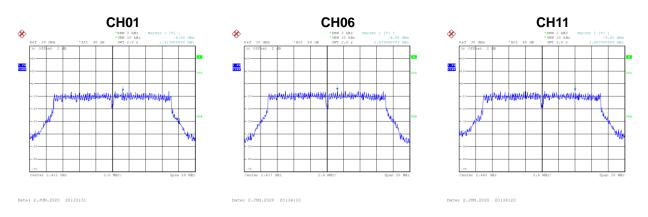
Test Mode	TX N-20M Mode_	Ant 1
TEST MICHE	I I V I I ZOINI INIOUE	\tau.

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-4.90	7.99	Complies
06	2437	-4.89	7.99	Complies
11	2462	-4.76	7.99	Complies



Test Mode	TX N-20M Mode Ant. 2
I ICSL WICKE	I I A IN ZUIVI IVIUUC AIII. Z

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-5.50	7.99	Complies
06	2437	-4.86	7.99	Complies
11	2462	-5.40	7.99	Complies



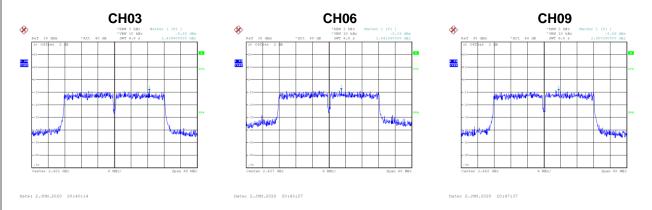
Test Mode	TX N-20M Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-2.18	7.99	Complies
06	2437	-1.86	7.99	Complies
11	2462	-2.06	7.99	Complies



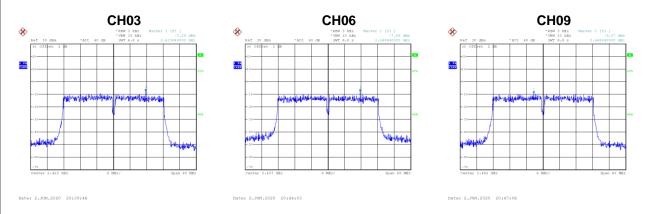
Test Mode	TX N-40M Mode_	Ant. 1
100t Widde	I I A I I TOIVI IVIOUG	, ,,,,,,

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-8.80	7.99	Complies
06	2437	-8.24	7.99	Complies
09	2452	-8.59	7.99	Complies



Test Mode	TX N-40M Mode	Δnt 2
TEST INDUC	I I V I I - HOINI INIOUE	ΛIII. ∠

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-7.29	7.99	Complies
06	2437	-7.68	7.99	Complies
09	2452	-9.27	7.99	Complies



Test Mode	TX N-40M Mode_Total
100t Wiodo	TITE TOWN MODE TO CO.

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-4.97	7.99	Complies
06	2437	-4.94	7.99	Complies
09	2452	-5.91	7.99	Complies

End of Test Report