

FCC Radio Test Report

FCC ID: 2AUA9-RQZY001

This report concerns: Original Grant

Project No. : 1910C010

Equipment: AC1200 DUAL-BAND SMART WIFI ROUTER

Brand Name: rock space, ROCK

Test Model : RSD0611 **Series Model** : N/A

Applicant: Shenzhen Renging Excellent Technology Co., Ltd.

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Community, Dalang Street, Longhua District, Shenzhen, China

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Date of Receipt : Oct. 10, 2019

Date of Test : Oct. 11, 2019 ~ Oct. 25, 2019

Issued Date : Nov. 11, 2019

Report Version : R01

Test Sample : Engineering Sample No.: DG201910091168

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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ilac-MRA



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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.	Nov. 01, 2019
R01	Changed the product name.	Nov. 11, 2019



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)		APPENDIX B				
15.205(a)	Radiated Emissions	APPENDIX C	PASS			
15.209(a)		APPENDIX D				
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:

- (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 Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm 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	150 kHz ~ 30 MHz	2.32

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9kHz ~ 30MHz	V	3.79
		9kHz ~ 30MHz	Н	3.57
		30MHz ~ 200MHz	V	4.88
		30MHz ~ 200MHz	Η	4.14
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	4.62
DG-CB03	CISER	200MHz ~ 1,000MHz	Η	4.80
		1GHz ~ 6GHz	-	4.58
		6GHz ~ 18GHz	-	5.18
		18GHz ~ 26.5GHz	-	3.80
		26.5GHz ~ 40GHz	-	4.30

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	53%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-9K-30MHz	25°C	60%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-30 MHz to 1GHz	24°C	68%	AC 120V/60Hz	Berton Luo
Radiated Emissions-Above 1000 MHz	24°C	68%	AC 120V/60Hz	Berton Luo
Bandwidth	25°C	58%	AC 120V/60Hz	Jonas Chen
Maximum output power	25°C	58%	AC 120V/60Hz	Jonas Chen
Conducted Spurious Emissions	25°C	58%	AC 120V/60Hz	Jonas Chen
Power Spectral Density	25°C	58%	AC 120V/60Hz	Jonas Chen



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 DUAL-BAND SMART WIFI ROUTER
Brand Name	rock space, ROCK
Test Model	RSD0611
Series Model	N/A
Model Difference(s)	N/A
	DC Voltage supplied from AC/DC adapter.
Power Source	Model:GQ12-120100-CC
Power Pating	I/P: 100-240V~ 50/60Hz 0.4A Max
Power Rating	O/P: 12V === 1.0A
Operation Frequency	2412 MHz ~ 2462 MHz
	IEEE 802.11b: DSSS
Modulation Type	IEEE 802.11g: OFDM
	IEEE 802.11n: OFDM
	IEEE 802.11b: 11/5.5/2/1 Mbps
Bit Rate of Transmitter	IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps
	IEEE 802.11n: up to 300 Mbps
	IEEE 802.11b: 18.07 dBm (0.0641 W)
Maximum Output Power	IEEE 802.11g: 16.28 dBm (0.0425 W)
Non Beamforming	IEEE 802.11n (HT20): 18.41 dBm (0.0693 W)
	IEEE 802.11n (HT40): 18.96 dBm (0.0787 W)
Maximum Output Power	IEEE 802.11n (HT20): 18.06 dBm (0.0640 W)
Beamforming	IEEE 802.11n (HT40): 18.45 dBm (0.0700 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)							
			CH09 for IE				
Channel Frequency (MHz) Channel Frequency (MHz) Channel Frequency (MHz) Frequency (MHz)							
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		



3. Antenna Specification:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	DONGGUAN SLEing	N/A	Dinala	N/A	3.50
'	INTEL-TECH.CO.,LTD	IN/A	Dipole	IN/A	3.50
2	DONGGUAN SLEing	NI/A	Dinala	N/A	3.50
	INTEL-TECH.CO.,LTD	L-TECH.CO.,LTD N/A	Dipole	IN/A	3.50

Note:

- (1) For Non Beamforming function, this EUT supports CDD, and all antennas have the same gain, Directional gain=G_{ANT}+Array Gain, where Array Gain is as follows: For output power measurements, Array Gain=0 (NANT ≤ 4), so, Directional gain=3.50 For power spectral density measurements, Array Gain=10log(N_{ANT}/N_{SS}) dB that is Directional gain=3.50+10log(2/1)=6.51. So, the power density limit is 8-6.51+6=7.49
- (2) For Beamforming function, Beamforming gain: 3.0dB, so Directional gain=3.0+3.50=6.50. Then, the output Power limit is 30-6.50+6=29.50
- 4. The worst case for 1TX/2TX as follow:

For Non Beamforming:

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)

For Beamforming:

Operation Made	
Operating Mode	2TX
TX Mode	ZIX
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-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	
Mode 5	TX N-40 MHz Mode Channel 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 N-40 MHz Mode Channel 09	

Radiated emissions test - Below 1GHz		
Final Test Mode:	Description	
Mode 5	TX N-40 MHz Mode Channel 09	

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		

Output Power test for Non Beamforming		
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	



Output Power test for Beamforming		
Final Test Mode:	Description	
Mode 3	TX N-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	

Others Conducted test for Non Beamforming		
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 (6.5 Mbps) 802.11n HT40 mode : BPSK (13.5 Mbps)
 - For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated emission below 1 GHz test, the IEEE 802.11n40 Channel 09 is found to be the worst case and recorded.
- (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.
- (5) The measurements for Power were tested, the non Beamforming and beamforming are recorded in the report. The worst cases were Non Beamforming, and only the worst cases were documented for other test items.



2.3 PARAMETERS OF TEST SOFTWARE

Non Beamforming

Test Software	MP_TEST.EXE		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	37	40	43
IEEE 802.11g	39	40	41
IEEE 802.11n (HT20)	39	40	41
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	39	41	42

Beamforming

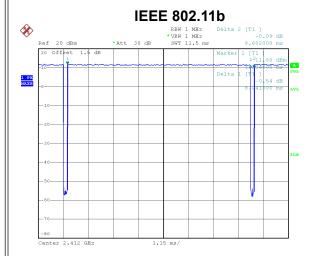
Test Software	MP_TEST.EXE		
Frequency (MHz)	2412	2437	2462
IEEE 802.11n (HT20)	38	39	40
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	39	40	41

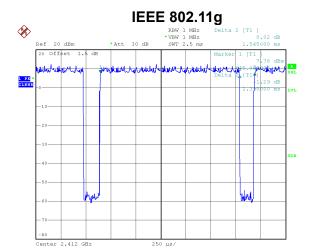




2.4 DUTY CYCLE

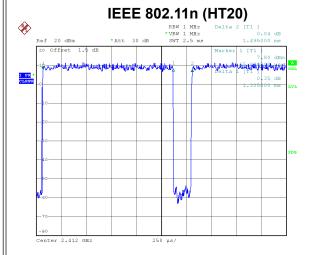
If duty cycle is ≥ 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered. The output power = measured power + duty factor.





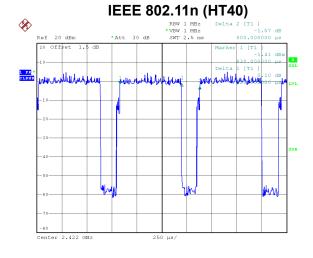
Date: 16.0CT.2019 21:39:05

Duty cycle = 8.441 ms / 8.602 ms = 98.13% Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$



Date: 16.0CT.2019 21:39:54

Duty cycle = 1.395 ms / 1.545 ms = 90.29% Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.44$



Date: 16.0CT.2019 21:42:32

Duty cycle = 1.305 ms / 1.495 ms = 87.29%Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.59$

Date: 16.0CT.2019 21:48:06

Duty cycle = 0.620 ms / 0.800 ms = 77.50%Duty Factor = $10 \log(1/\text{Duty cycle}) = 1.11$

NOTE:

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

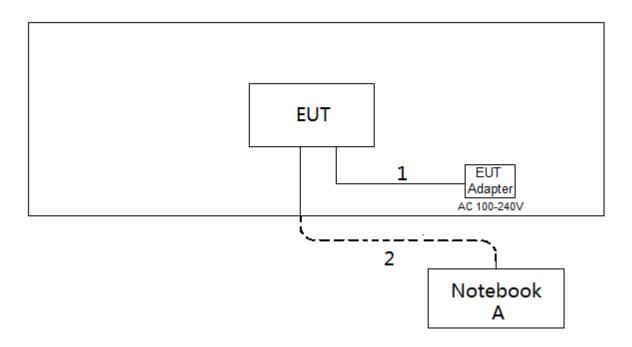
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

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

Item	Equipment	Brand	Model No.	Series No.
Α	Notebook	Dell	Inspiron 15-7559	N/A

l1	tem	Cable Type	Shielded Type	Ferrite Core	Length
	1	DC Cable	NO	NO	1.2m
	2	RJ45 Cable	NO	NO	10m



3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Fraguesia of Emission (MIII)	Limit (dBμV)	
Frequency of Emission (MHz)	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

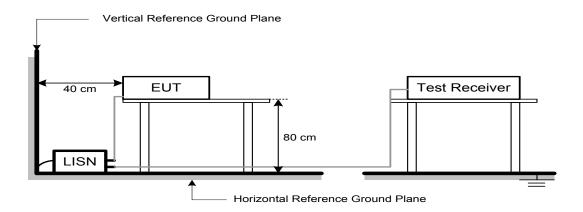
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.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

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

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.

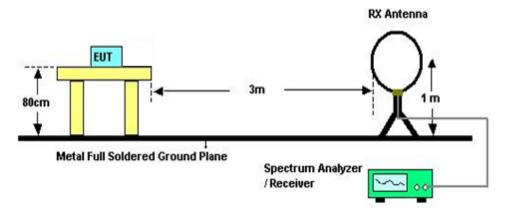
4.3	DEVIAT	ON FROM	TEST	STANDARD
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No deviation

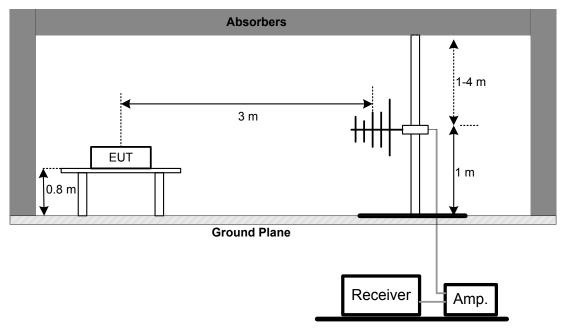


4.4 TEST SETUP

9 kHz-30 MHz

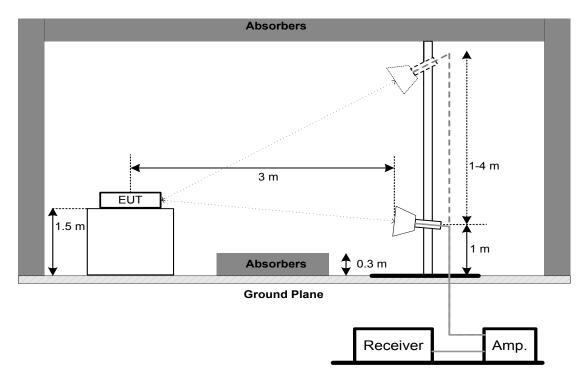


30 MHz to 1 GHz





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		Limit
15 247(a)(2)	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. For 6dB Bandwidth Spectrum setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms. For 99% OBW Spectrum Setting: For B,G,N20 mode: RBW= 300KHz, VBW=1MHz, For N40 mode: RBW= 1MHz, VBW=3MHz, 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 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

EUT	Power Meter
	1 OWEI MELEI

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					
15.247(6)	Fower Spectral Density	(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

EUT	SPECTRUM
	ANALYZER

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	Mar. 10, 2020					
2	LISN	EMCO	3816/2	52765	Mar. 10, 2020					
3	50ohm Terminator	SHX	TF5-3	15041305	Mar. 10, 2020					
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	May 19, 2020					
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A					
6	Cable	N/A	RG223	12m	Mar. 12, 2020					

	Radiated Emissions - 9 kHz to 30 MHz									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	Loop Antenna	EM	EM-6876-1	230	Jan. 15, 2020					
2	Cable	N/A	RG 213/U	C-102	May 31, 2020					
3	EMI Test Receiver	R&S	ESCI	100895	Mar. 10, 2020					
4	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	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2020					
2*	Amplifier	HP	8447D	2944A09673	Aug. 11, 2021					
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020					
4	Cable	emci	LMR-400(30MHz- 1GHz)(8m+5m)	N/A	May 24, 2020					
5	Controller	CT	SC100	N/A	N/A					
6	Controller	MF	MF-7802	MF780208416	N/A					
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 Guide Antenna	ETS	3115	75789	Mar. 09, 2020					
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2020					
3	Amplifier	Agilent	8449B	3008A02333	Mar. 10, 2020					
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 10, 2020					
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020					
6	Controller	CT	SC100	N/A	N/A					
7	Controller	MF	MF-7802	MF780208416	N/A					
8	Cable	mitron	B10-01-01-12M	18072744	Jun. 29, 2020					
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A					



	Bandwidth & Antenna Conducted Spurious Emissions & Power Spectral Density							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020			

	Maximum Output Power									
Item	m Kind of Equipment Manufacturer Type No. Serial No. Calibrated unti									
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Aug. 03, 2020					
2	Wideband power sensor	Keysight	N1923A	MY58310004	Aug. 03, 2020					

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

AC Power Line Conducted Emissions Test Photos



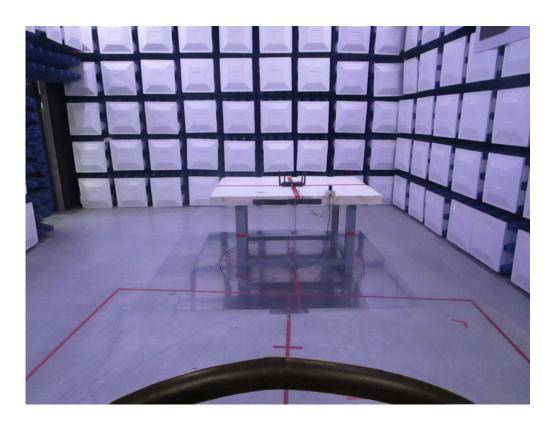




Radiated Emissions Test Photos

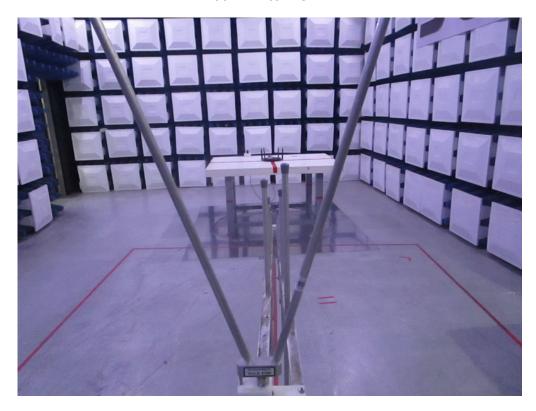
9 kHz to 30 MHz

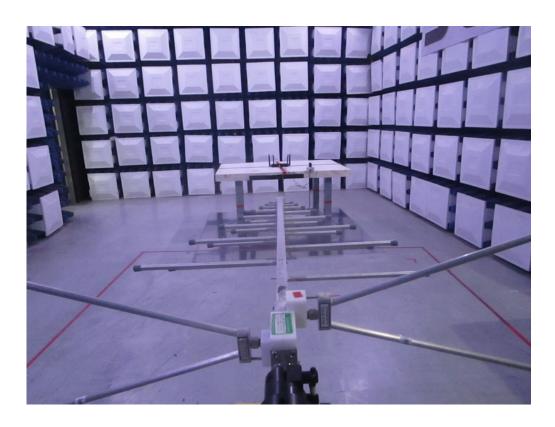






Radiated Emissions Test Photos 30 MHz to 1 GHz

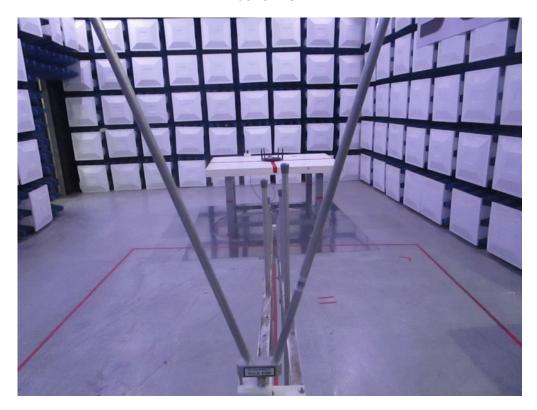


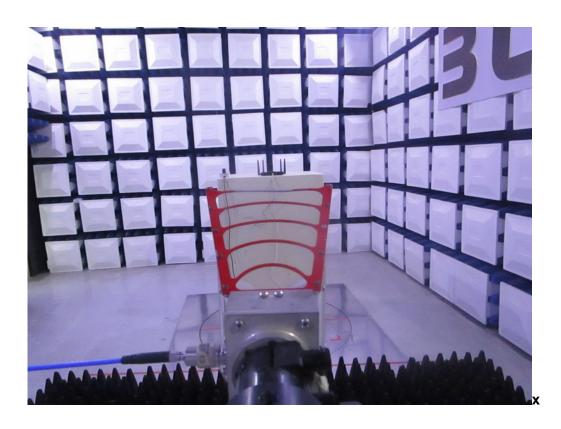




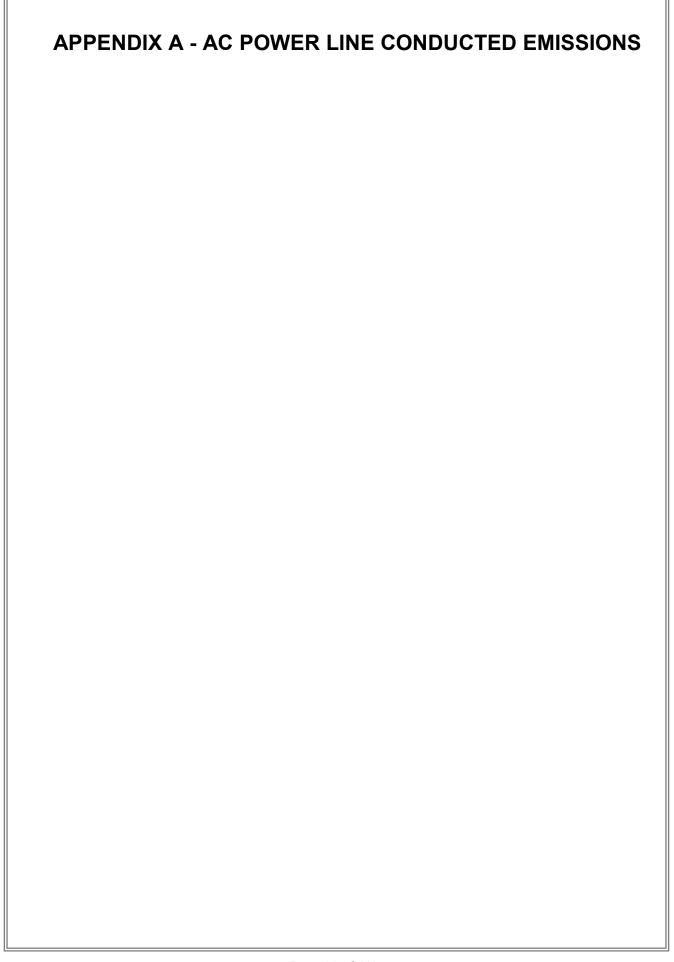
Radiated Emissions Test Photos

Above 1 GHz





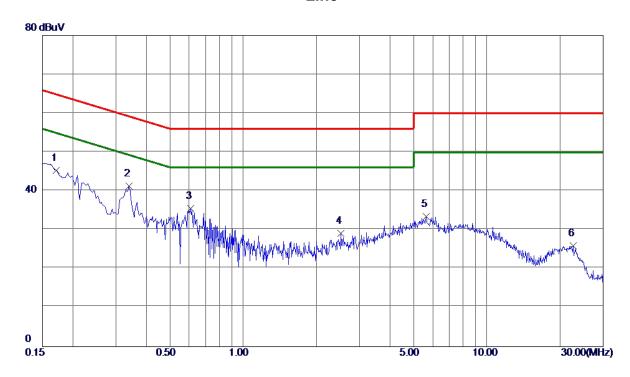






Test Mode: TX N40 Mode Channel 09

Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1703	35. 47	9.82	45. 29	64.95	-19.66	Peak	
2 *	0.3390	31. 38	9.85	41. 23	59. 23	-18.00	Peak	
3	0.6090	25. 66	9. 89	35. 55	56.00	-20. 45	Peak	
4	2. 5125	19. 05	10.03	29.08	56.00	-26. 92	Peak	
5	5.6310	23. 18	10. 23	33.41	60.00	-26. 59	Peak	
6	22. 6275	14.72	11. 16	25. 88	60.00	-34. 12	Peak	

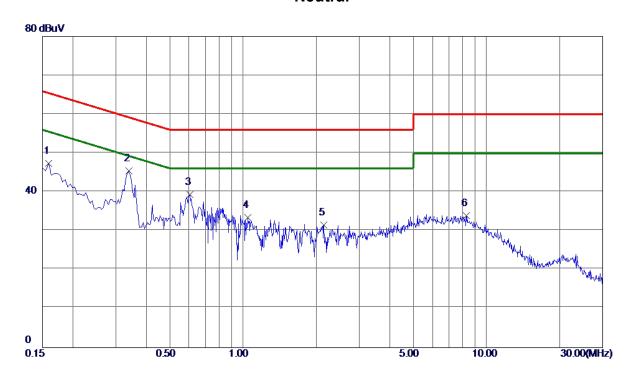
REMARKS:

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



TX N40 Mode Channel 09 Test Mode:

Neutral

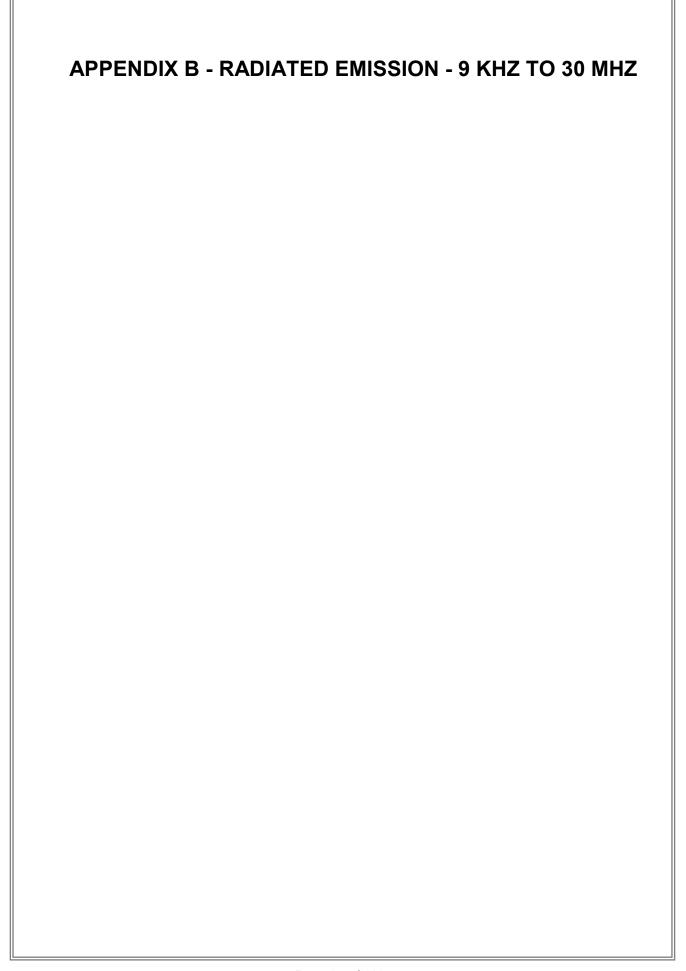


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1590	37. 38	9. 91	47. 29	65. 52	-18. 23	Peak	
2 *	0. 3390	35. 43	9. 98	45. 41	59. 23	-13.82	Peak	
3	0.6045	29. 34	10.04	39. 38	56.00	-16.62	Peak	
4	1. 0 455	23. 30	10. 12	33. 42	56.00	-22. 58	Peak	
5	2. 1525	21. 39	10. 20	31. 59	56.00	-24.41	Peak	
6	8. 2410	23. 30	10.65	33. 95	60.00	-26.05	Peak	

REMARKS:

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

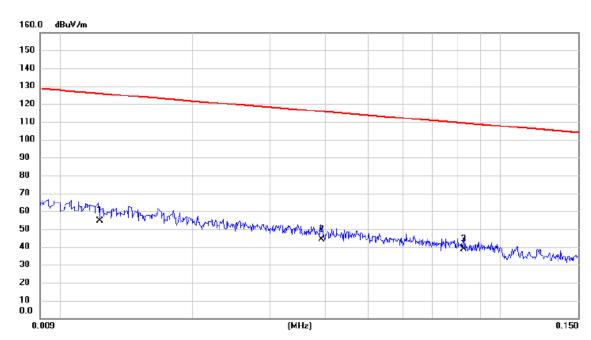






Test Mode: TX N40 Mode Channel 09

Ant 0°



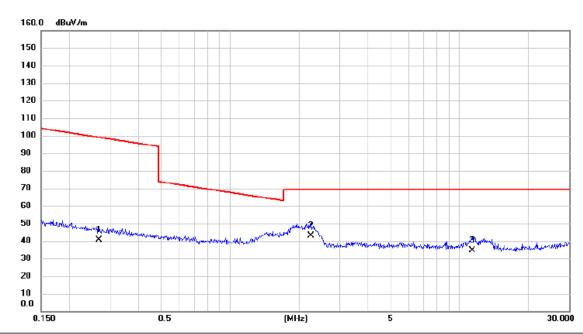
No. Mk.	Freq.			Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0123	38.65	16.13	54.78	125.81	-71.03	AVG	
2	0.0392	30.48	13.89	44.37	115.74	-71.37	AVG	
3 *	0.0826	24.96	13.54	38.50	109.27	-70.77	AVG	

REMARKS:

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



Ant 0°

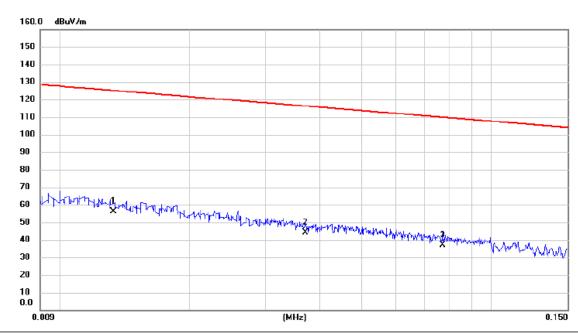


No. Mk.	Freq.			Measure- ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2686	26.85	13.62	40.47	99.02	-58.55	AVG	
2 *	2.2486	31.45	11.67	43.12	69.54	-26.42	QP	
3	11.3771	22.96	11.61	34.57	69.54	-34.97	QP	

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



Ant 90°

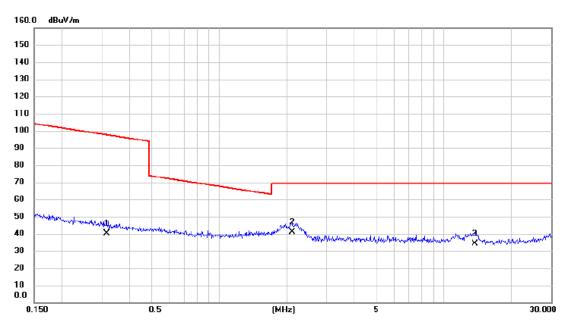


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0133	40.36	15.83	56.19	125.13	-68.94	AVG	
2		0.0371	30.48	13.89	44.37	116.22	-71.85	AVG	
3		0.0770	23.65	13.53	37.18	109.88	-72.70	AVG	

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



Ant 90°



No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.3150	26.85	13.50	40.35	97.64	-57.29	AVG	
2 *	2.1101	29.35	11.75	41.10	69.54	-28.44	QP	
3	13.7680	22.47	11.58	34.05	69.54	-35.49	QP	

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



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ



Vertical

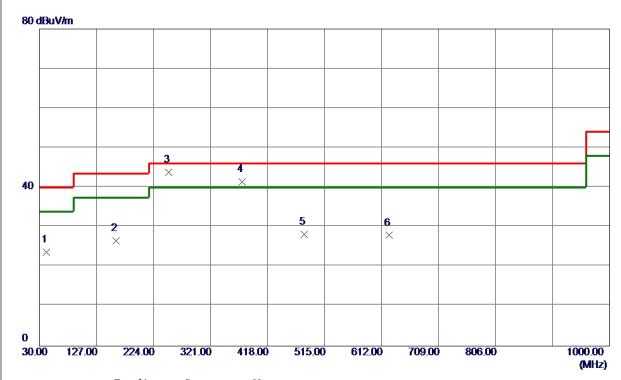


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	34.8500	42.03	-14.94	27. 09	40.00	-12.91	Peak	
2	53.7650	40. 16	-13. 93	26. 23	40.00	-13.77	Peak	
3	125.0600	38. 09	-13. 11	24. 98	43.50	-18.52	Peak	
4	250. 1900	41.56	-13.77	27.79	46.00	-18. 21	Peak	
5	374.8350	42.68	-10. 14	32. 54	46.00	-13.46	Peak	
6 *	640. 1300	39. 90	-4. 93	34.97	46.00	-11.03	Peak	

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



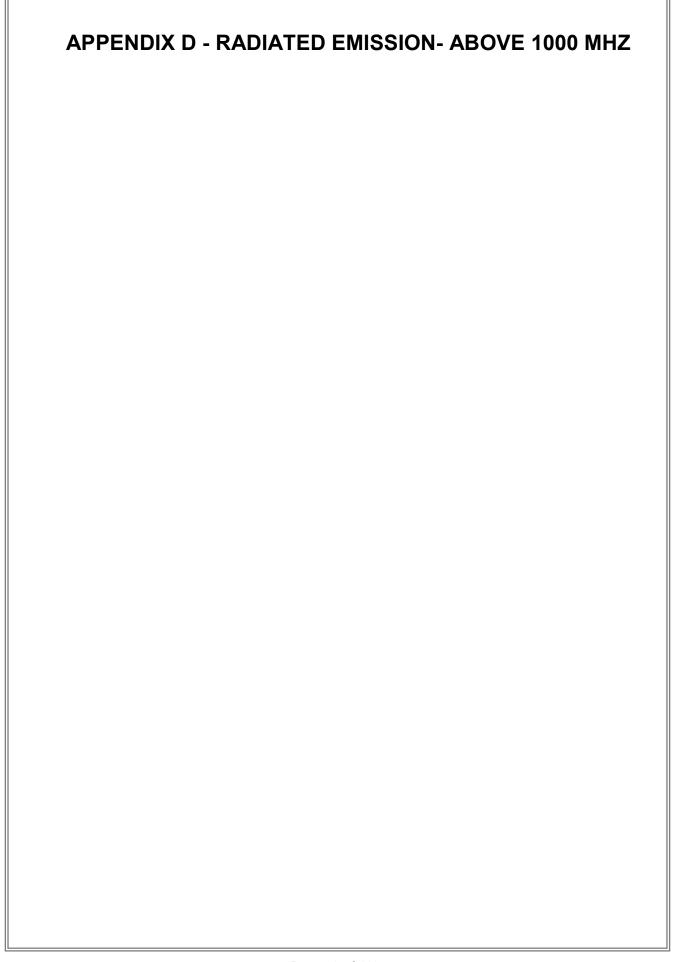
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	42. 1250	38. 22	-14.47	23.75	40.00	-16. 25	Peak	
2	159. 9800	37. 59	-11.07	26. 52	43.50	-16. 98	Peak	
3 *	250. 1900	57.60	-13.77	43.83	46.00	-2. 17	Peak	
4	374.8350	51. 53	-10. 14	41. 39	46.00	-4.61	Peak	
5	480.0800	36.00	-7. 91	28. 09	46.00	-17.91	Peak	
6	625. 0949	33. 18	-5. 26	27. 92	46.00	−18. 08	Peak	

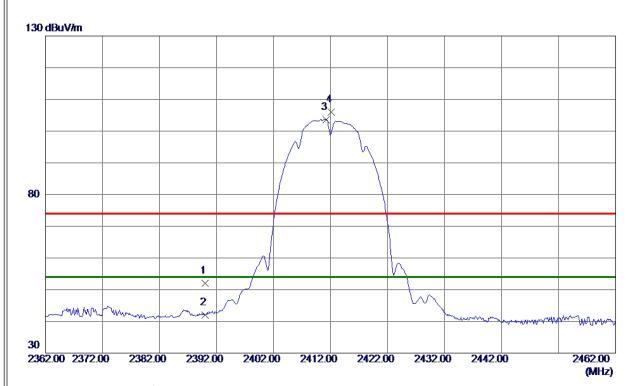
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.







Vertical

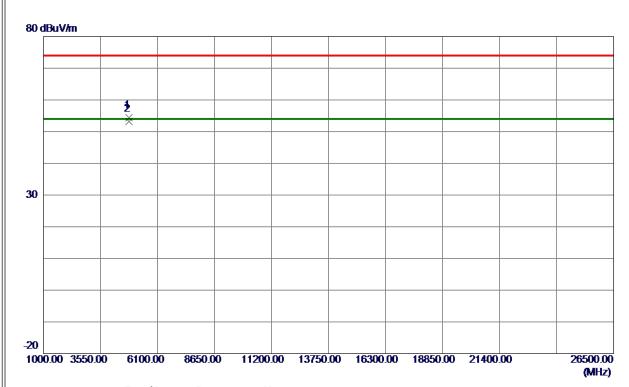


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	45. 46	6. 53	51. 99	74.00	-22.01	Peak	
2	2390.0000	35. 55	6. 53	42.08	54.00	-11.92	AVG	
3 *	2411. 2500	97. 13	6. 51	103.64	54.00	49.64	AVG	No Limit
4	2412. 1000	99. 59	6. 51	106. 10	74.00	32. 10	Peak	No Limit

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



Vertical

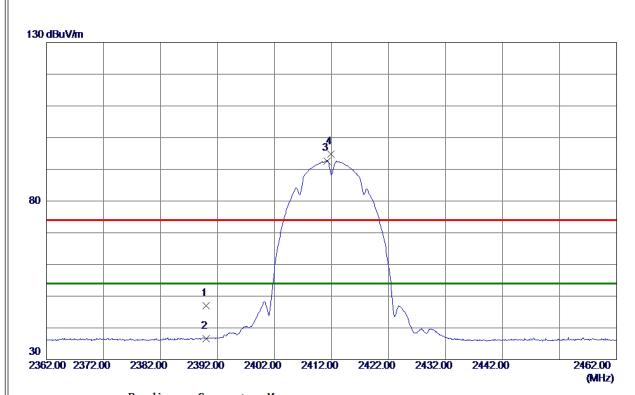


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.0200	50.88	3.43	54.31	74.00	-19.69	Peak	
2 *	4824.0500	49.76	3. 43	53. 19	54.00	-0.81	AVG	

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



Horizontal

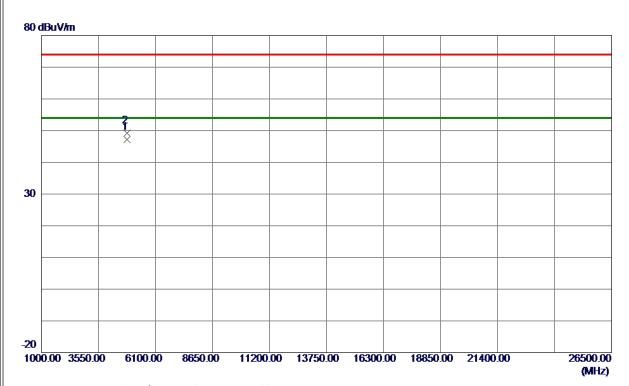


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	40. 51	6. 53	47.04	74.00	-26. 96	Peak	
2	2390.0000	30. 03	6. 53	36. 56	54.00	-17.44	AVG	
3 *	2411. 2500	86. 19	6. 51	92.70	54.00	38. 70	AVG	No Limit
4	2411. 9000	88. 22	6. 51	94.73	74.00	20.73	Peak	No Limit

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



Horizontal



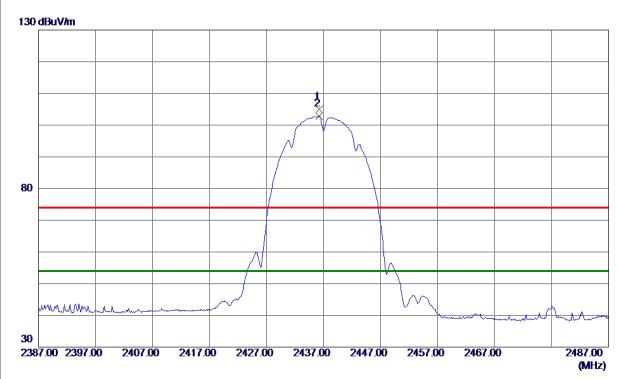
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4824.0050	43.78	3. 43	47. 21	54.00	-6. 79	AVG	
2	4824.0400	45.75	3. 43	49. 18	74.00	-24.82	Peak	

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



Test Mode: TX B Mode 2437 MHz

Vertical



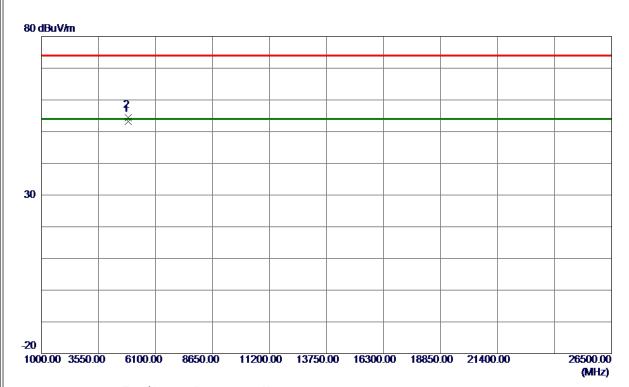
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436. 2000	98. 55	6. 48	105. 03	74.00	31. 03	Peak	No Limit
2 *	2436, 2500	96. 32	6. 48	102, 80	54.00	48, 80	AVG	No Limit

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



Test Mode: TX B Mode 2437 MHz

Vertical



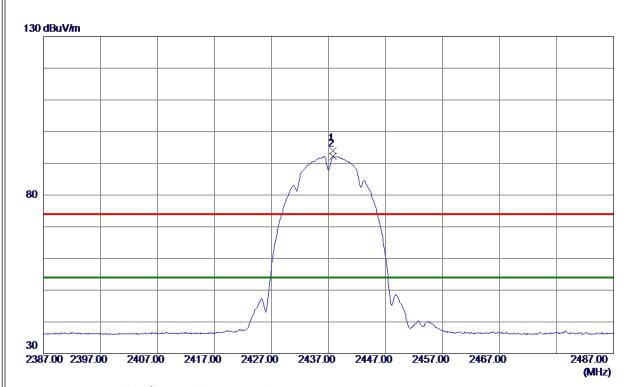
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874.0200	49.68	3. 58	53. 26	54.00	-0.74	AVG	
2	4874.0650	50.87	3. 58	54.45	74.00	-19.55	Peak	

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



Test Mode: TX B Mode 2437 MHz

Horizontal



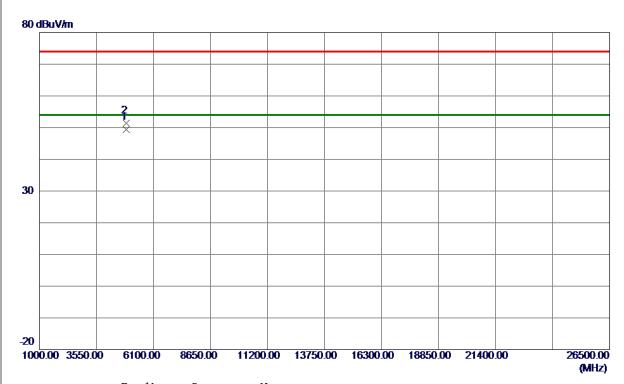
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2437.8000	87.42	6.48	93. 90	74.00	19. 90	Peak	No Limit
2 *	2437.8000	85. 7 0	6. 48	92. 18	54.00	38. 18	AVG	No Limit

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



Test Mode: TX B Mode 2437 MHz

Horizontal

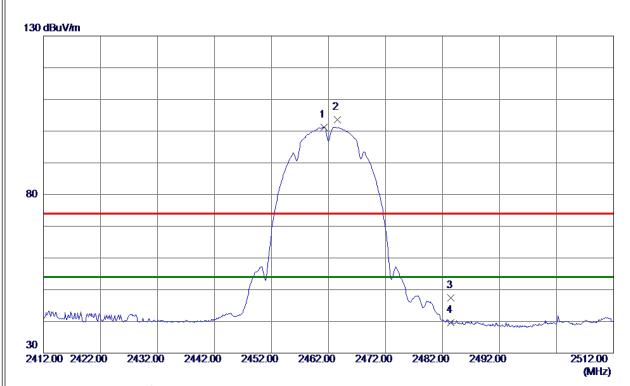


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874.0250	45. 77	3. 58	49. 35	54.00	-4.65	AVG	
2	4874. 1150	47.87	3. 58	51. 45	74.00	-22. 55	Peak	

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



Vertical

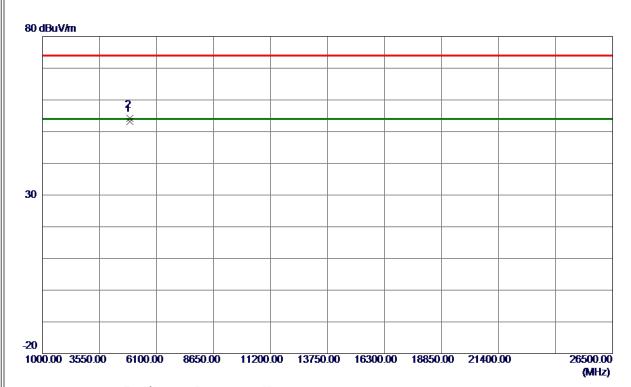


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2461. 2500	94.83	6. 45	101. 28	54.00	47. 28	AVG	No Limit
2	2463. 5500	97. 12	6. 45	103. 57	74.00	29. 57	Peak	No Limit
3	2483. 5000	40.90	6. 42	47.32	74.00	-26. 68	Peak	
4	2483. 5000	33. 09	6. 42	39. 51	54.00	-14.49	AVG	

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



Vertical

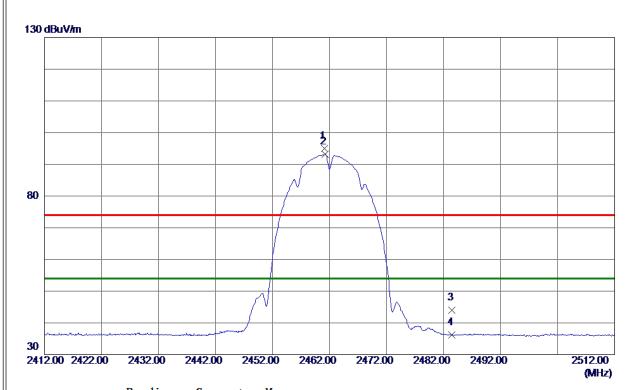


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924. 0250	49. 38	3.73	53. 11	54.00	-0.89	AVG	
2	4924. 0900	50 . 57	3. 73	54. 30	74.00	-19.70	Peak	

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



Horizontal

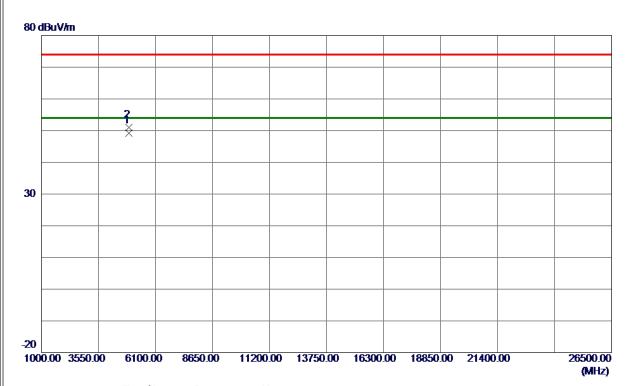


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461. 1000	88. 53	6. 45	94. 98	74.00	20.98	Peak	No Limit
2 *	2461. 2500	86.73	6. 45	93. 18	54.00	39. 18	AVG	No Limit
3	2483. 5000	37.61	6. 42	44.03	74.00	-29.97	Peak	
4	2483. 5000	29.82	6. 42	36. 24	54.00	-17. 76	AVG	

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



Horizontal

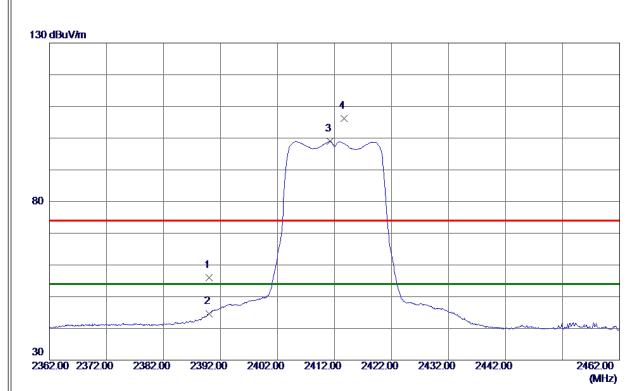


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924.0550	45. 39	3. 73	49. 12	54.00	-4.88	AVG	
2	4924.0600	47. 22	3. 73	50.95	74.00	-23.05	Peak	

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



Vertical

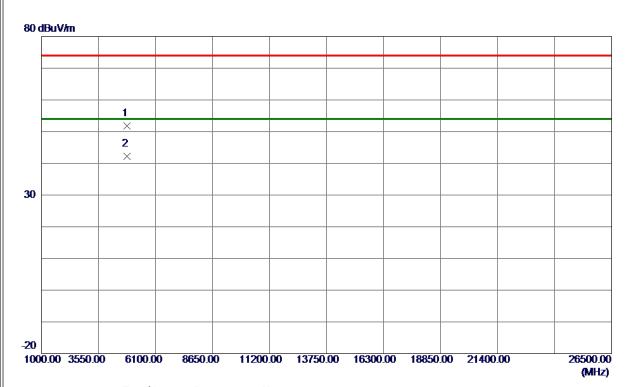


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	49. 49	6. 53	56. 02	74.00	-17. 98	Peak	
2	2390.0000	38. 11	6. 53	44.64	54.00	-9. 36	AVG	
3 *	2411. 2000	92.47	6. 51	98. 98	54.00	44. 98	AVG	No Limit
4	2413.6500	99. 79	6. 50	106. 29	74.00	32. 29	Peak	No Limit

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



Vertical

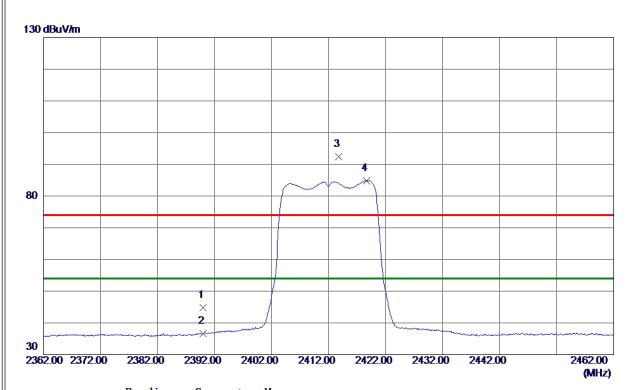


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4821. 1950	48. 38	3.42	51.80	74.00	-22. 20	Peak	
2 *	4823.9600	38. 78	3. 43	42. 21	54.00	-11.79	AVG	

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



Horizontal

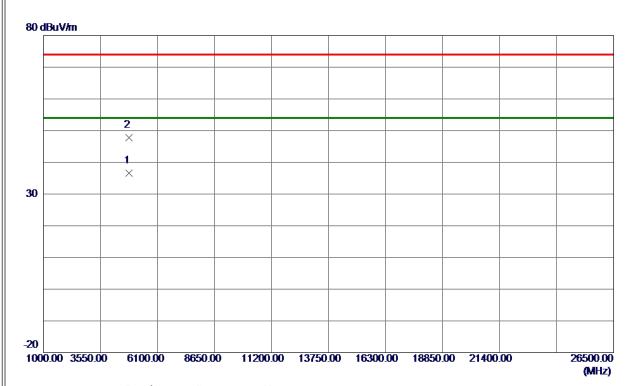


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	38. 31	6. 53	44.84	74.00	-29. 16	Peak	
2	2390.0000	30.04	6. 53	36. 57	54.00	-17.43	AVG	
3	2413.7500	85. 81	6. 50	92. 31	74.00	18. 31	Peak	No Limit
4 *	2418.6500	78. 36	6. 50	84.86	54.00	30.86	AVG	No Limit

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



Horizontal

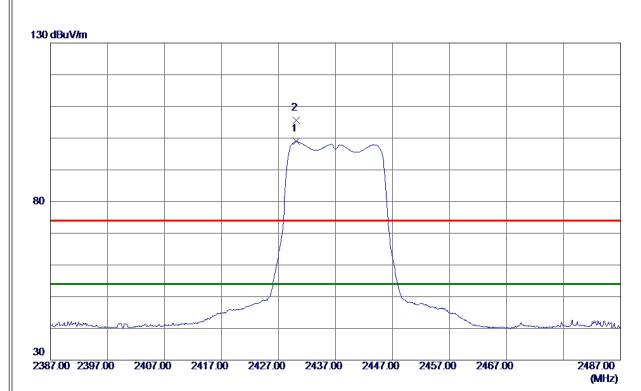


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4824. 1100	33. 21	3.43	36.64	54.00	-17.36	AVG	
2	4825.0050	44.31	3.43	47.74	74.00	-26. 26	Peak	

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



Vertical

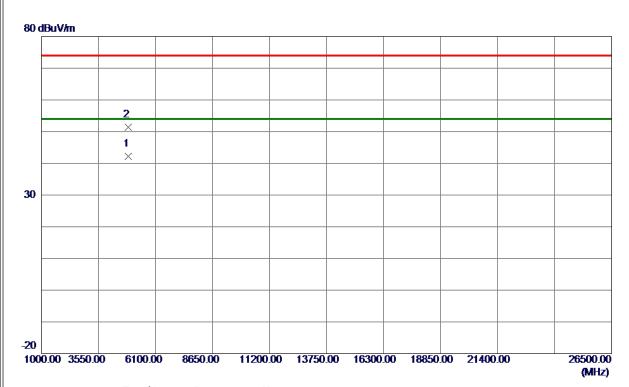


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2430. 1000	92.49	6. 49	98. 98	54.00	44.98	AVG	No Limit
2	2430, 1500	99. 15	6. 49	105, 64	74.00	31. 64	Peak	No Limit

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



Vertical

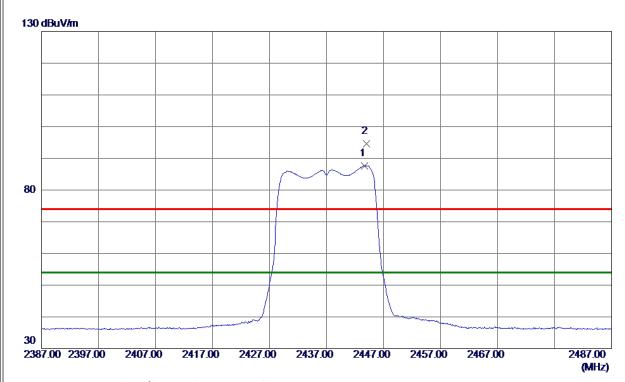


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873. 7850	38. 57	3. 58	42. 15	54.00	-11.85	AVG	
2	4875. 2550	47.91	3. 58	51. 49	74.00	-22. 51	Peak	

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



Horizontal

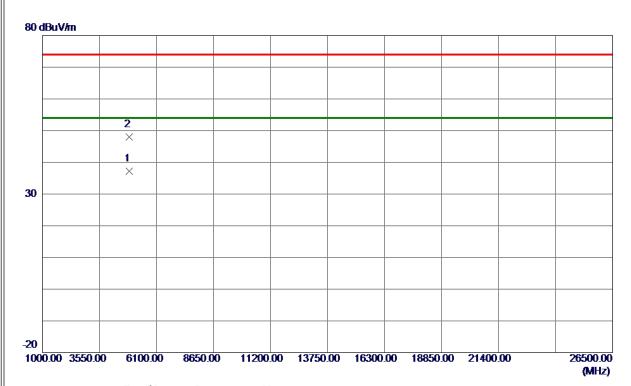


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2443.6500	81. 14	6. 47	87. 61	54.00	33. 61	AVG	No Limit
2	2444. 0000	88. 11	6. 47	94. 58	74.00	20. 58	Peak	No Limit

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



Horizontal

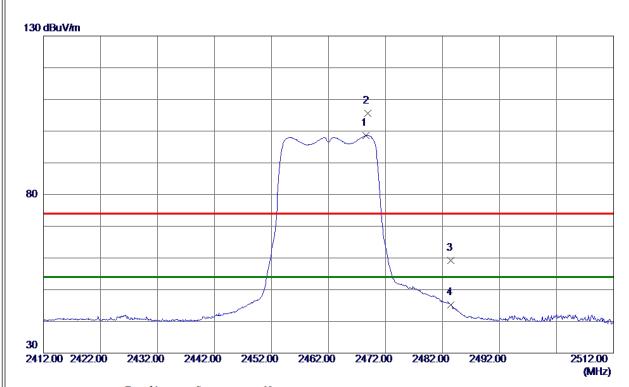


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874.0000	33. 55	3. 58	37. 13	54.00	-16.87	AVG	
2	4874.9750	44.40	3. 58	47.98	74.00	-26. 02	Peak	

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



Vertical

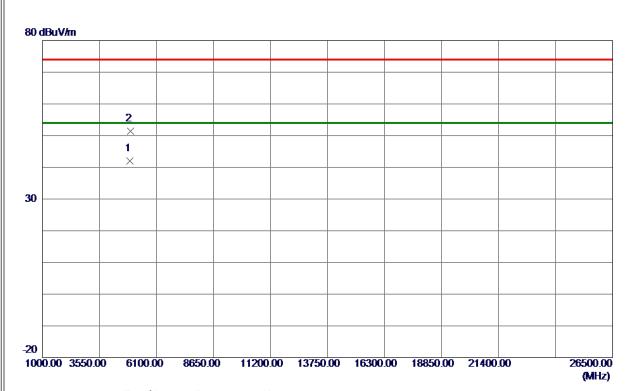


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2468. 5500	92. 16	6. 44	98. 60	54.00	44.60	AVG	No Limit
2	2468.8500	99. 14	6. 44	105. 58	74.00	31. 58	Peak	No Limit
3	2483. 5000	52. 75	6. 42	59. 17	74.00	-14.83	Peak	
4	2483. 5000	38. 70	6. 42	45. 12	54.00	-8.88	AVG	

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



Vertical

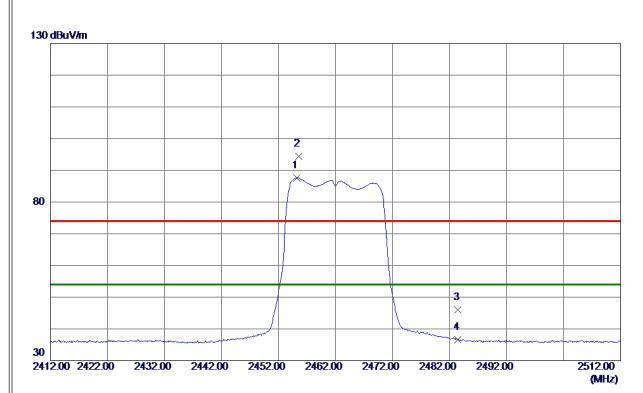


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923. 9900	38. 22	3. 73	41.95	54.00	-12.05	AVG	
2	4925. 4550	47.57	3.74	51. 31	74.00	-22.69	Peak	

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



Horizontal

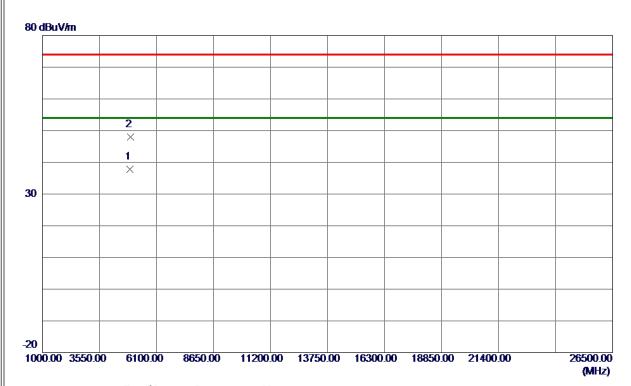


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2455. 2000	81. 21	6. 46	87. 67	54.00	33. 67	AVG	No Limit
2	2455.6000	88. 03	6. 46	94. 49	74.00	20.49	Peak	No Limit
3	2483. 5000	39. 50	6. 42	45. 92	74.00	-28 . 0 8	Peak	
4	2483. 5000	30. 17	6.42	36. 59	54.00	-17.41	AVG	
4								

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



Horizontal

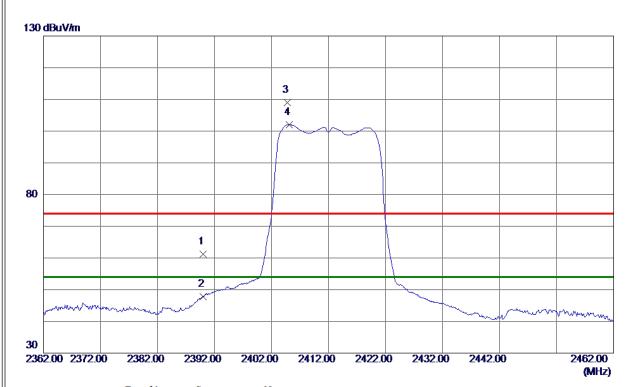


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924. 1450	34.04	3. 73	37.77	54.00	-16. 23	AVG	
2	4925. 2200	44. 29	3. 73	48.02	74.00	-25.98	Peak	

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



Vertical

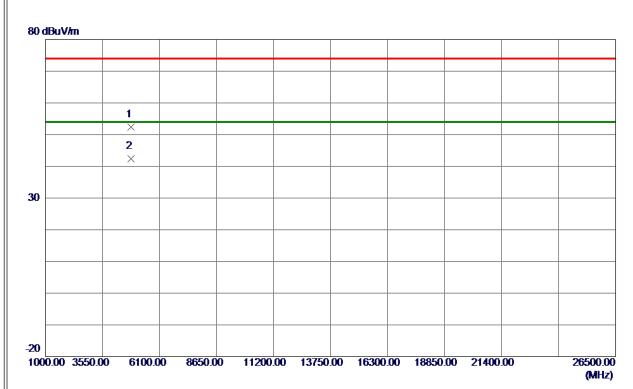


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	54.64	6. 53	61. 17	74.00	-12.83	Peak	
2	2390.0000	41. 24	6. 53	47.77	54.00	-6. 23	AVG	
3	2404.7500	102.48	6. 51	108. 99	74.00	34.99	Peak	No Limit
4 *	2405. 1500	95. 56	6. 51	102. 07	54.00	48.07	AVG	No Limit

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



Vertical

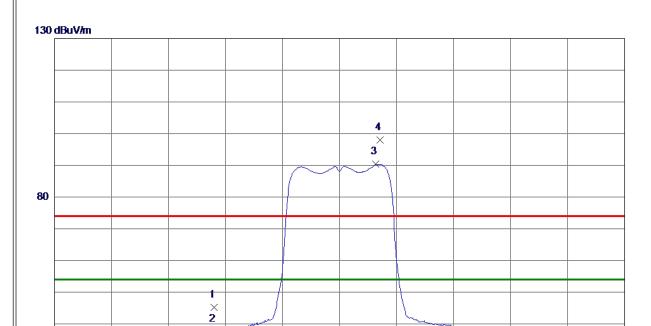


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.4000	48. 93	3.43	52. 36	74.00	-21.64	Peak	
2 *	4824.8350	39. 05	3.43	42.48	54.00	-11. 52	AVG	

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



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	38. 58	6. 53	45. 11	74.00	-28.89	Peak	
2	2390.0000	31. 04	6. 53	37. 57	54.00	-16.43	AVG	
3 *	2418. 3500	83. 81	6. 50	90. 31	54.00	36. 31	AVG	No Limit
4	2419. 1500	91. 50	6. 50	98. 00	74.00	24.00	Peak	No Limit

2412.00

2422.00

2432.00

2442.00

2462.00 (MHz)

REMARKS:

30

2362.00 2372.00

2382.00

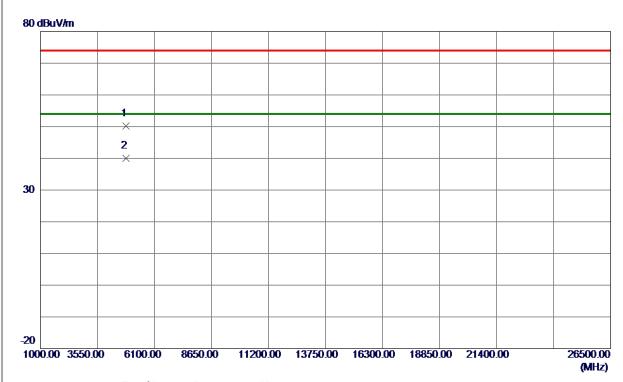
2392.00

2402.00

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



Horizontal

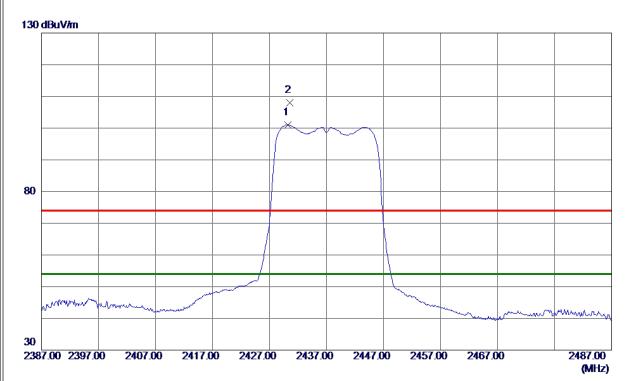


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4822. 2500	46. 78	3.42	50. 20	74.00	-23.80	Peak	
2 *	4822. 9200	36. 66	3.43	40.09	54.00	-13.91	AVG	

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



Vertical

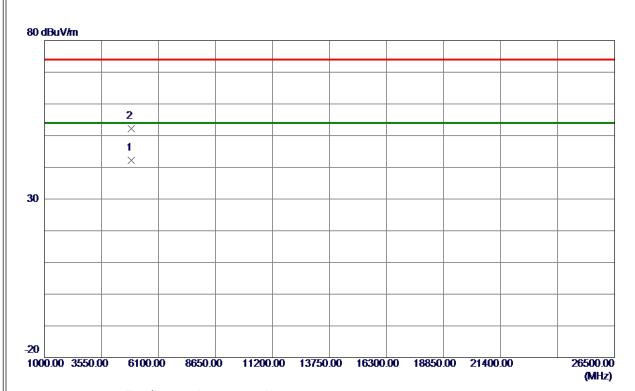


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2430. 2500	94. 50	6. 49	100. 99	54.00	46. 99	AVG	No Limit
2	2430, 6000	101. 52	6. 48	108.00	74.00	34. 00	Peak	No Limit

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



Vertical

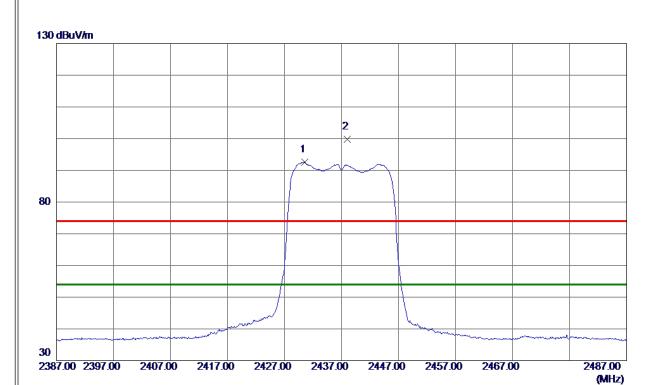


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4875.0500	38.70	3. 58	42. 28	54.00	-11.72	AVG	
2	4877. 5750	48. 67	3. 59	52. 26	74.00	-21.74	Peak	

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



Horizontal

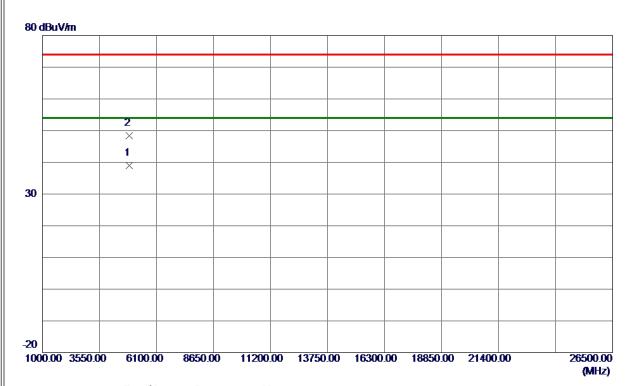


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2430. 5500	86. 05	6.48	92. 53	54.00	38. 53	AVG	No Limit
2	2438. 0500	93. 38	6. 48	99.86	74.00	25. 86	Peak	No Limit

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



Horizontal

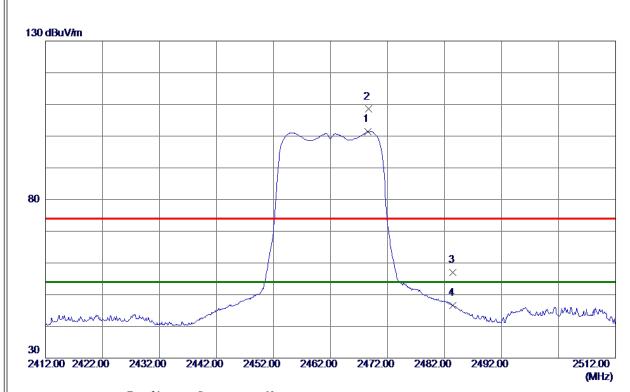


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873. 1549	35. 36	3. 58	38. 94	54.00	-15.06	AVG	
2	4873. 1800	44.78	3. 58	48. 36	74.00	-25.64	Peak	

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



Vertical

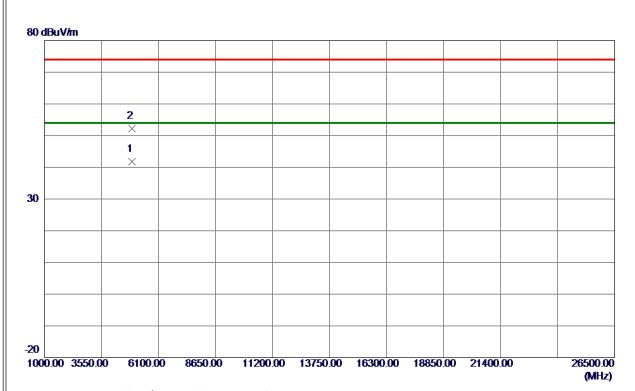


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2468.6000	94. 94	6. 44	101. 38	54.00	47. 38	AVG	No Limit
2	2468.6500	102.06	6. 44	108. 50	74.00	34. 50	Peak	No Limit
3	2483. 5000	50. 56	6. 42	56. 98	74.00	-17.02	Peak	
4	2483. 5000	40. 16	6. 42	46. 58	54.00	-7.42	AVG	

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



Vertical

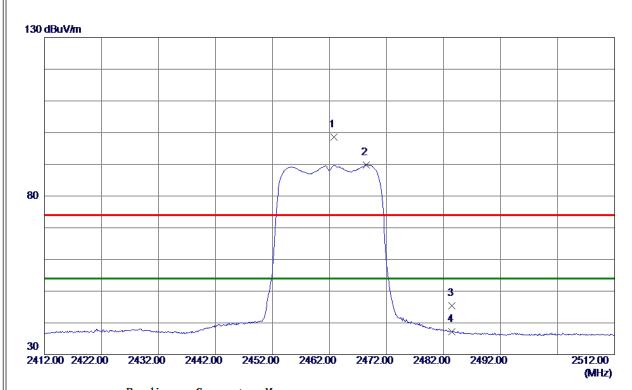


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4922. 8800	37. 99	3. 73	41.72	54.00	-12. 28	AVG	
2	4923. 2300	48. 50	3. 73	52. 23	74.00	-21.77	Peak	

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



Horizontal

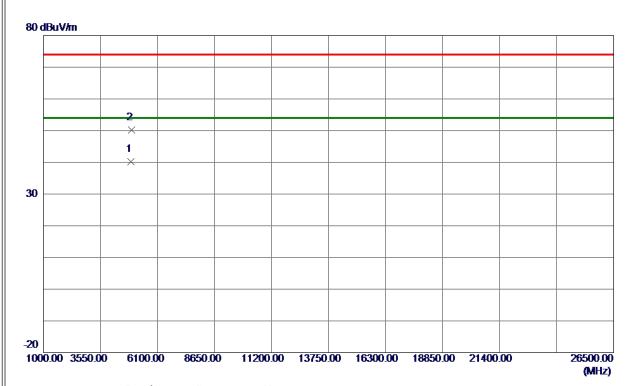


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2462. 8000	92. 11	6. 45	98. 56	74.00	24. 56	Peak	No Limit
2 *	2468. 4000	83.42	6. 44	89.86	54.00	35.86	AVG	No Limit
3	2483. 5000	39. 02	6. 42	45.44	74.00	-28. 56	Peak	
4	2483. 5000	30. 79	6. 42	37. 21	54.00	-16. 79	AVG	

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



Horizontal

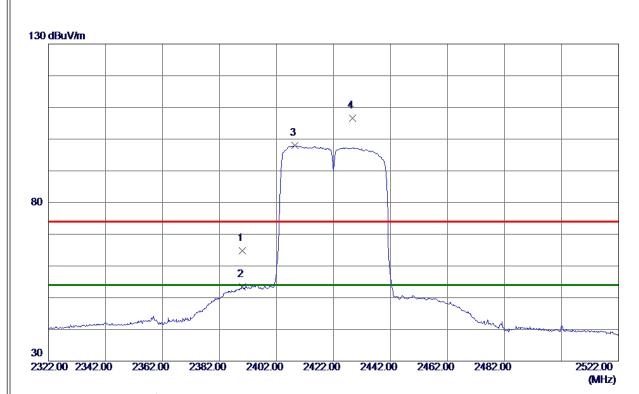


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923. 3000	36. 51	3. 73	40. 24	54.00	-13.76	AVG	
2	4924. 3650	46. 53	3. 73	50. 26	74.00	-23.74	Peak	

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



Vertical

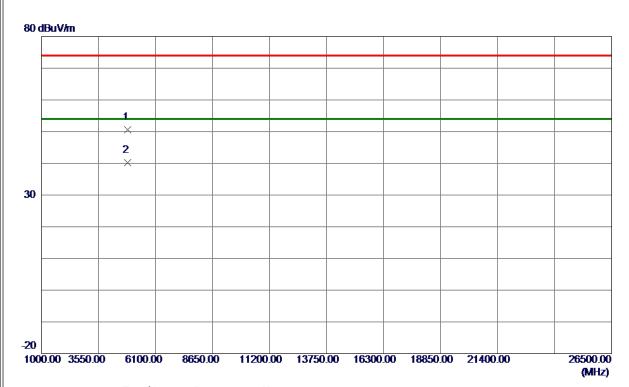


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	58. 33	6. 53	64.86	74.00	-9. 14	Peak	
2	2390.0000	46. 79	6. 53	53. 32	54.00	-0.68	AVG	
3 *	2408.4000	91.42	6. 51	97. 93	54.00	43.93	AVG	No Limit
4	2428.7000	100. 10	6. 49	106. 59	74.00	32. 59	Peak	No Limit

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



Vertical

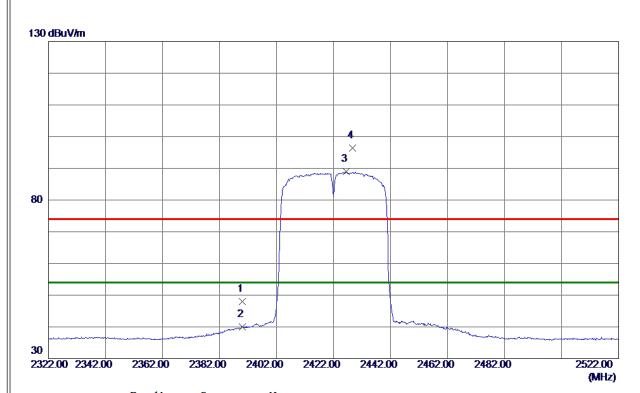


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4840.6400	47. 18	3.48	50.66	74.00	-23.34	Peak	
2 *	4843. 3400	36. 79	3.49	40. 28	54.00	-13.72	AVG	

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



Horizontal

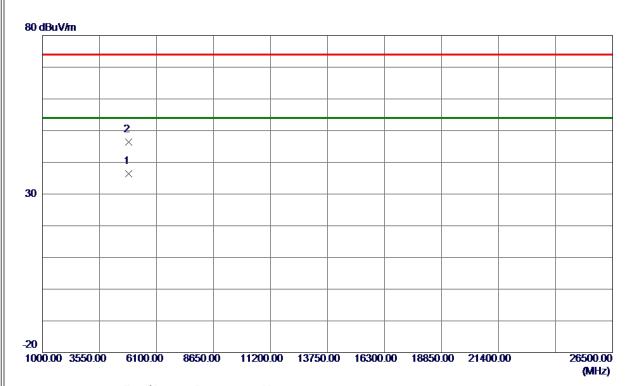


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	41.51	6. 53	48. 04	74.00	-25. 96	Peak	
2	2390.0000	33. 39	6. 53	39. 92	54.00	-14.08	AVG	
3 *	2426. 5000	82.43	6. 49	88. 92	54.00	34. 92	AVG	No Limit
4	2428. 7000	89. 89	6. 49	96. 38	74.00	22. 38	Peak	No Limit

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



Horizontal

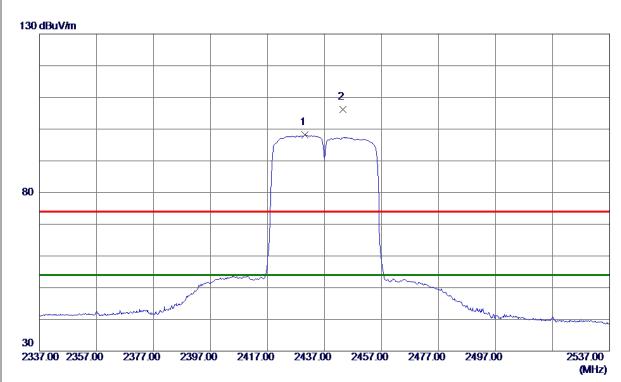


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4843. 2700	32. 92	3.49	36.41	54.00	-17.59	AVG	
2	4843. 3300	42.94	3.49	46. 43	74.00	-27.57	Peak	

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



Vertical

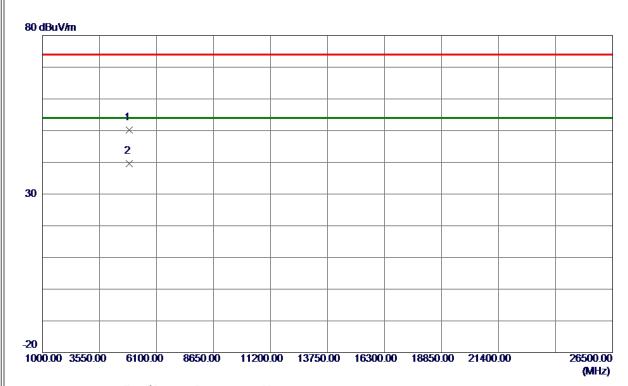


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2430. 2000	91.70	6. 49	98. 19	54.00	44. 19	AVG	No Limit
2	2443, 5000	99.71	6. 47	106. 18	74.00	32, 18	Peak	No Limit

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



Vertical

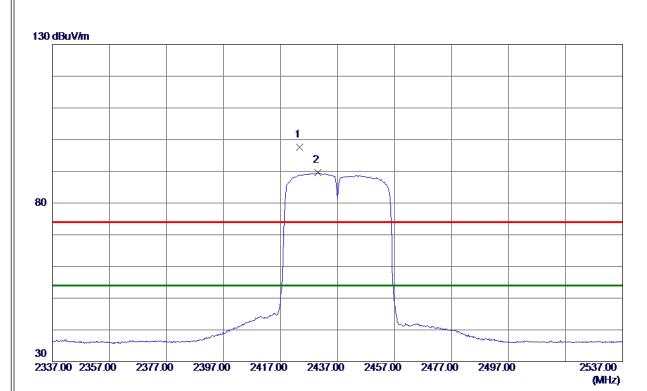


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873. 1300	46. 58	3. 58	50. 16	74.00	-23.84	Peak	
2 *	4873. 2700	36. 09	3. 58	39. 67	54.00	-14.33	AVG	

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



Horizontal

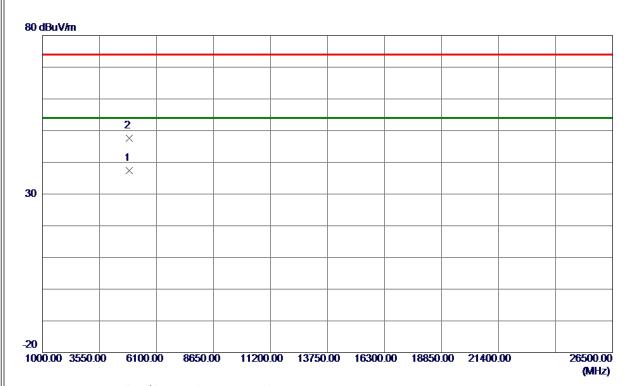


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2423.6000	91. 12	6. 49	97.61	74.00	23.61	Peak	No Limit
2 *	2430. 1000	83. 09	6. 49	89. 58	54.00	35. 58	AVG	No Limit

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



Horizontal

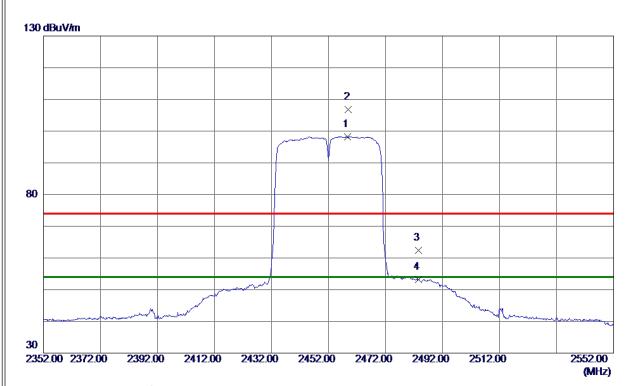


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873. 1700	33.74	3. 58	37. 32	54.00	-16.68	AVG	
2	4876. 7599	44.08	3. 59	47.67	74.00	-26. 33	Peak	

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



Vertical

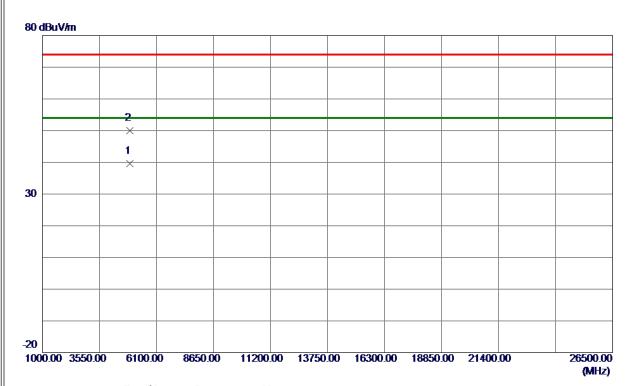


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2458.7000	91.81	6. 45	98. 26	54.00	44. 26	AVG	No Limit
2	2459.0000	100. 36	6. 45	106.81	74.00	32.81	Peak	No Limit
3	2483. 5000	55. 99	6. 42	62.41	74.00	-11. 59	Peak	
4	2483. 5000	46.84	6. 42	53. 26	54.00	-0.74	AVG	

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



Vertical

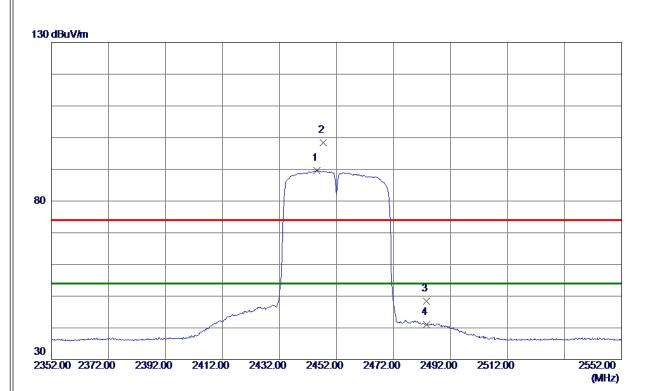


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4903. 2450	35. 90	3. 67	39. 57	54.00	-14.43	AVG	
2	4904. 4650	46. 39	3. 67	50.06	74.00	-23.94	Peak	

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



Horizontal

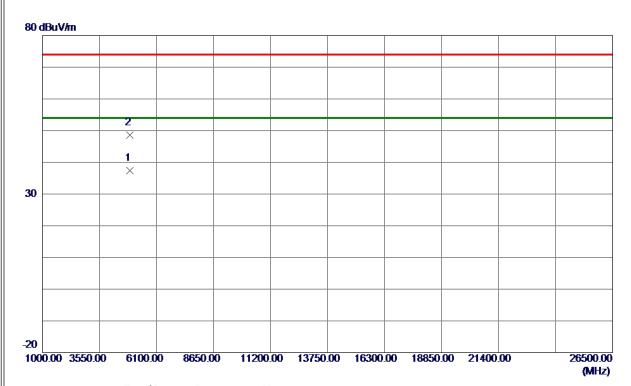


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2445. 2000	83. 20	6. 47	89. 67	54.00	35. 67	AVG	No Limit
2	2447. 3000	91.96	6. 47	98. 43	74.00	24.43	Peak	No Limit
3	2483. 5000	41.99	6.42	48.41	74.00	-25.59	Peak	
4	2483. 5000	34.66	6. 42	41.08	54.00	-12. 92	AVG	
4	2483. 5000	34. 66	6. 42	41. 08	54.00	-12. 92	AVG	

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



Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4903. 0800	33. 76	3. 67	37.43	54.00	-16. 57	AVG	
2	4906.7400	45.00	3. 68	48.68	74.00	-25. 32	Peak	

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



APPENDIX E - BANDWIDTH



I	Test Mode	TX B Mode
ı	1 COL IVICAC	

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	10.08	500	Complies
06	2437	9.61	500	Complies
11	2462	9.64	500	Complies



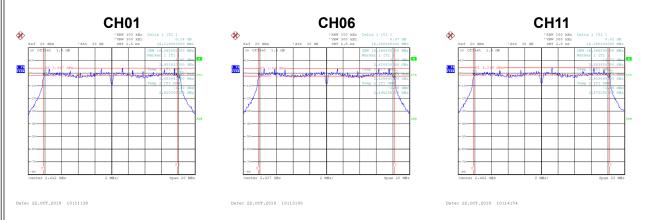
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	14.70	Complies
06	2437	14.70	Complies
11	2462	14.70	Complies





Test Mode	TX G Mode
I COL IVIOUC	\cap

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	16.12	500	Complies
06	2437	16.38	500	Complies
11	2462	16.38	500	Complies



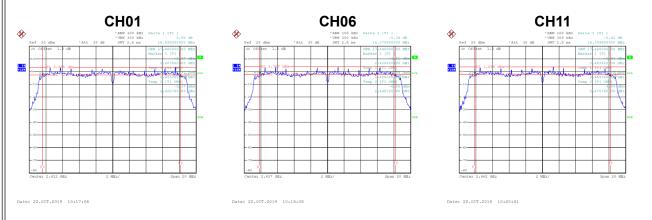
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	16.60	Complies
06	2437	16.70	Complies
11	2462	16.70	Complies





Test Mode	TX N-20M Mode
I COL IVIOGO	IN IN EDIVITION

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	16.60	500	Complies
06	2437	16.38	500	Complies
11	2462	16.40	500	Complies



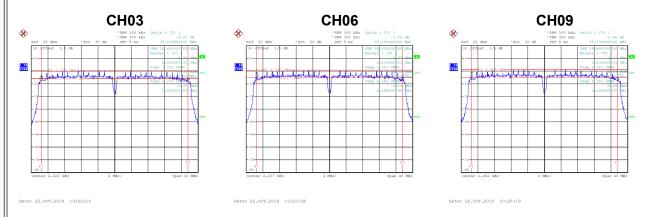
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	17.60	Complies
06	2437	17.50	Complies
11	2462	17.60	Complies





	Test Mode	ΤX	N-40M	Mode
ı	TEST MODE		111- 4 -0101	MOUE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
03	2422	35.24	500	Complies
06	2437	35.16	500	Complies
09	2452	35.08	500	Complies



Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
03	2422	35.80	Complies
06	2437	35.80	Complies
09	2452	35.80	Complies





APPENDIX F - MAXIMUM OUTPUT POWER



Non Beamforming

Test Mode	TX B Mode		
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.21	0.0418	30.00	1.0000	Complies
06	2437	17.33	0.0541	30.00	1.0000	Complies
11	2462	18.07	0.0641	30.00	1.0000	Complies

Test Mode	TX G Mode	
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.19	0.0416	30.00	1.0000	Complies
06	2437	16.28	0.0425	30.00	1.0000	Complies
11	2462	16.23	0.0420	30.00	1.0000	Complies



Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.54	0.0358	30.00	1.0000	Complies
06	2437	15.50	0.0355	30.00	1.0000	Complies
11	2462	15.54	0.0358	30.00	1.0000	Complies

Test Mode TX N-20M Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.21	0.0332	30.00	1.0000	Complies
06	2437	15.14	0.0327	30.00	1.0000	Complies
11	2462	15.25	0.0335	30.00	1.0000	Complies

Test Mode TX N-20M Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.39	0.0690	30.00	1.0000	Complies
06	2437	18.33	0.0681	30.00	1.0000	Complies
11	2462	18.41	0.0693	30.00	1.0000	Complies



Test Mode TX N-40M M	de Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	15.44	0.0350	30.00	1.0000	Complies
06	2437	15.94	0.0392	30.00	1.0000	Complies
09	2452	16.08	0.0405	30.00	1.0000	Complies

Test Mode TX N-40M Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	15.17	0.0329	30.00	1.0000	Complies
06	2437	15.64	0.0366	30.00	1.0000	Complies
09	2452	15.83	0.0383	30.00	1.0000	Complies

Test Mode TX N-40M Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.31	0.0678	30.00	1.0000	Complies
06	2437	18.80	0.0759	30.00	1.0000	Complies
09	2452	18.96	0.0788	30.00	1.0000	Complies



Beamforming

Test Mode	TX N-20M Mode Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.01	0.0317	29.50	0.8913	Complies
06	2437	14.93	0.0311	29.50	0.8913	Complies
11	2462	15.14	0.0327	29.50	0.8913	Complies

Test Mode T	N-20M Mode	Ant. 2
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.93	0.0311	29.50	0.8913	Complies
06	2437	14.67	0.0293	29.50	0.8913	Complies
11	2462	14.96	0.0313	29.50	0.8913	Complies

Test Mode	TX N-20M Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.98	0.0628	29.50	0.8913	Complies
06	2437	17.81	0.0604	29.50	0.8913	Complies
11	2462	18.06	0.0640	29.50	0.8913	Complies



Test Mode TX N-40M Mode_Ant.

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	15.67	0.0369	29.50	0.8913	Complies
06	2437	15.43	0.0349	29.50	0.8913	Complies
09	2452	15.40	0.0346	29.50	0.8913	Complies

Test Mode TX N-40M Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	15.03	0.0318	29.50	0.8913	Complies
06	2437	15.22	0.0332	29.50	0.8913	Complies
09	2452	15.49	0.0354	29.50	0.8913	Complies

Test Mode TX N-40M Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.37	0.0687	29.50	0.8913	Complies
06	2437	18.33	0.0681	29.50	0.8913	Complies
09	2452	18.45	0.0700	29.50	0.8913	Complies



APPENDIX G - CONDUCTED SPURIOUS EMISSIONS



