Neutron Engi	ineering Inc
	C Radio Test Report CC ID: VOB-P2570
	IC:7361A-P2570
	check one) : Original Grant Class II Change
Project No. Equipment Model Name Applicant Address	: Wireless Controller
Date of Receip	utron Engineering Inc. EMC Laboratory o t: Apr. 09, 2014 pr. 09, 2014~ May. 19, 2014 lay.20, 2014
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Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**., or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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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.

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REPORT ISSUED HISTORY					
Issued No.	Description	Issued Date			
NEI-FICP-2-1404C046	Original Issue.	May.20, 2014			



1. CERTIFICATION

Equipment	:	Wireless Controller
Brand Name	:	NVIDIA
Model Name	:	P2570
Applicant	:	NVIDIA Corporation
Manufacturer	:	NVIDIA Corporation
Address	:	2701 San Tomas Expressway Santa Clara, CA95050
Factory	:	NVIDIA Corporation
Address	:	2701 San Tomas Expressway Santa Clara, CA95050
Date of Test	:	Apr. 09, 2014~ May. 19, 2014
Test Item	:	ENGINEERING SAMPLE
		FCC Part15, Subpart E(15.407) / ANSI C63.4 : 2009;
Standard(s)	:	Canada RSS-210:2010
		RSS-GEN Issue 3, Dec 2010
		FCC KDB 789033 D01 General UNII Test Procedures v01r03.

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FICP-2-1404C046) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E Canada RSS-210:2010/ RSS-GEN Issue 3, Dec 2010					
	andard(s) Section	Test Item	Judgment	Remark	
FCC	IC				
15.207	RSS-GEN 7.2.2	AC Power Line Conducted Emissions	PASS		
15.407(a)	RSS-210 A9.2(1)	26dB Spectrum Bandwidth	PASS		
15.407(a)	RSS-210 A9.2(1)	Maximum Conducted Output Power	PASS		
15.407(a)	RSS-210 A9.2(1)	Power Spectral Density	PASS		
15.407(a)	-	Peak Excursion	PASS		
15.407(a)	RSS-210 Annex 8 (A8.5)	Radiated Emissions	PASS		
15.407(b)	RSS-210 A9.2(1)	Band Edge Emissions	PASS		
15.407(g)	RSS-210 A1.1.4	Frequency Stability	PASS		
15.203	-	Antenna Requirements	PASS		

NOTE:

(1)" N/A" denotes test is not applicable in this test report

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number for FCC: 319330

Neutron's test firm number for IC: 4428B-1

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95**%.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
		9KHz~30MHz	V	3.79	
		9KHz~30MHz	Н	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86	
DG-CB03	CISER	200MHz ~ 1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	Н	4.14	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Controller			
Brand Name	NVIDIA			
Model Name	P2570			
Mode Different	N/A			
	Operation Frequency Band 1:5150MHz~5250MHz			
	Modulation Type	OFDM		
	Bit Rate of Transmitter	11a:6/ 9/12/18/24Mbps		
Product Description	Output Dower (Max.)	802.11a: 0.46dBm (FCC Part 15E)		
	Output Power (Max.)	802.11a:3.97dBm (RSS-210)		
	More details of EUT technical specification, please refer to the User's Manual.			
Power Source	 #1 Supplied from Lithium-ion Polymer rechargeable battery. 1)Model:PT553759 2)Model:LC18650-2200mAh #2 Supplied from USB port. 			
Power Rating	#1 1) DC 3.7V 1250mAh 2) DC 3.6V 2200mAh #2 DC 5V 0.5A			
Connecting I/O Port(s)	Please refer to the User's Manual			

Note:

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

2. Channel List:

802.11a				
Ba	Band 1			
Channel Frequency (MHz)				
36	5180			
40	5200			
44	5220			
48	5240			

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3. Table for Filed Antenna

An	nt.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1		Yageo Corp.	ANT5320LL24R2455A	Chip	N/A	3.51
2	2	Yageo Corp.	ANT5320LL24R2455A	Chip	N/A	3.51

Note:

The EUT incorporates a SISO function and only one antenna used per time

4.

Operating Mode TX Mode	1TX	2TX
802.11a	V (ANT 1 or ANT 2)	-

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48
Mode 2	TX A Mode / CH36, CH40, CH44
Mode 3	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test		
Final Test Mode	Description	
Mode 3	TX Mode	

For Radiated Test		
Final Test Mode	Description	
Mode 1	TX A Mode / CH36, CH40, CH48	
Mode 2	TX A Mode / CH36, CH40, CH44	

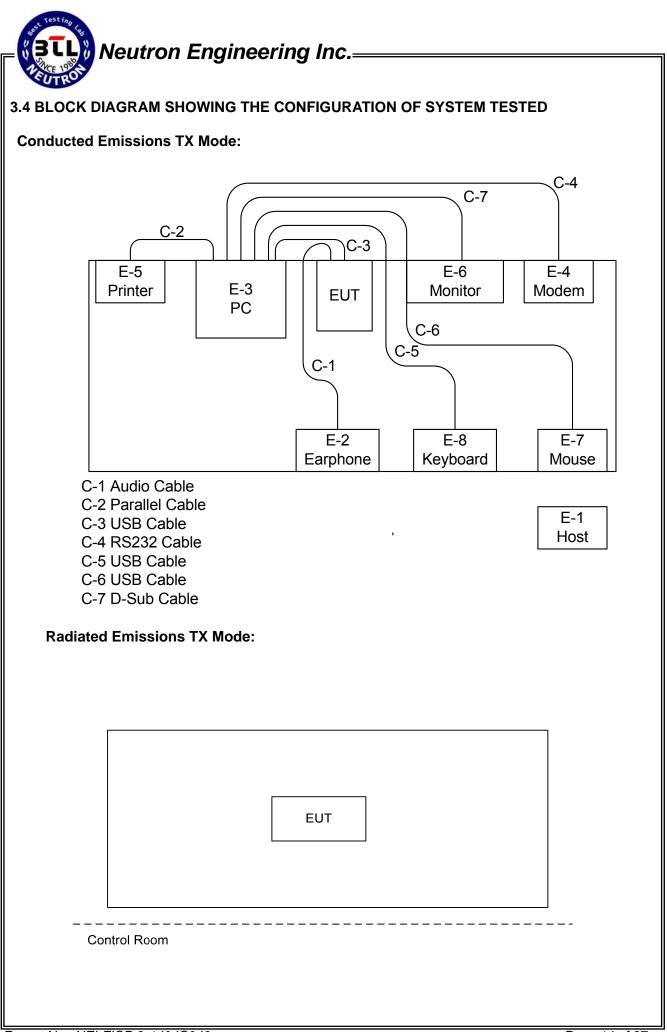
Note: The mode 1 is for FCC Part 15E, the mode 2 is for RSS-210.



3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product

Test software version	Tera Term			
Frequency	5180 MHz 5200MHz 5220MHz 5240 MHz			
A Mode	:SPW 0	:SPW 0	:SPW 0	:SPW 0



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Host	NVIDIA	P2450	VOB-P2450	N/A	
E-2	Earphone	Apple	N/A	DOC	N/A	
E-3	PC	DELL	DCSM	DOC	G7K832X	
E-4	Modem	ACEEX	DM-1414V	N/A	0603002131	
E-5	Printer	SII	DPU-414	DOC	018507 B	
E-6	LCD monitor	Dell	E177FPc	DOC	CNOFJ179-64180-6AG-1 WNS	
E-7	USB Mouse	Dell	MO56UOA	DOC	G01003HO	
E-8	USB Keyboard	Dell	L100	DOC	CNORH6596589085C00 U7	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	1.5m	
C-2	YES	NO	1.5m	
C-3	YES	YES	1.5m	
C-4	YES	NO	1.5m	
C-5	YES	NO	1.5m	
C-6	YES	NO	1.5m	
C-7	YES	YES	1.5m	

Note:

(1) For detachable type I/O cable should be specified the length in m in ^[]Length ^[] column.

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A	(dBuV)	Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

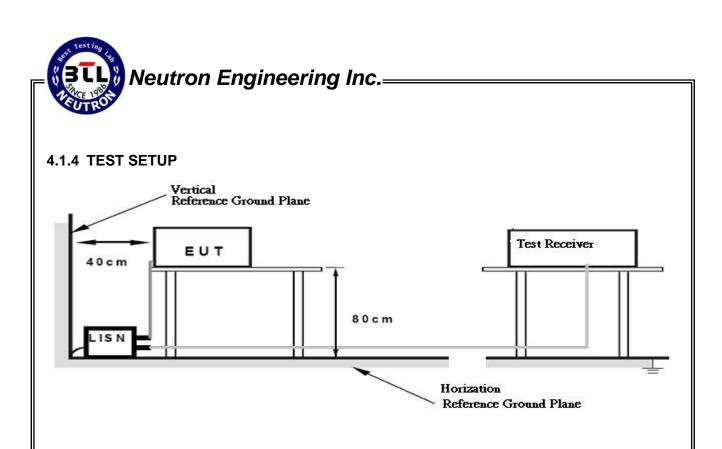
(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 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 equipments 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.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



Note: The EUT does not connect to the LISN directly but through a PC. The detail setup is shown on chapter 3.4.

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting/TX Mode mode.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 5V(Powered through USB cable)

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a) and RSS-210 section 2.2&A8.5, then the 15.209(a) and RSS-Gen limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBµV/m)
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5825	-27	68.3
	-17	78.3

NOTE: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

 $E=\frac{100000 \beta \sqrt{30P}}{3} \mu V/m, \text{ where P is the eirp (Watts)}$



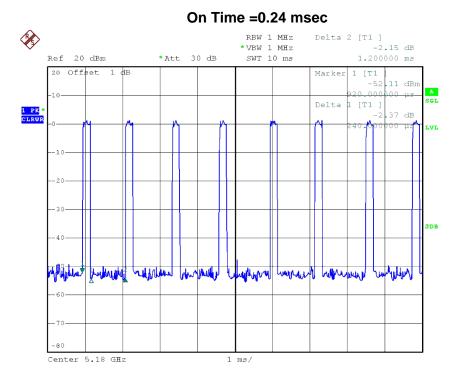
DUTY CYCLE: TX A 5180MHz

Duty Cycle=ON/(ON+OFF)

Duty Cycle=0.24/1.20

AV=Peak Value+20log(Duty Cycle)

AV=PK-13.98



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Note:For 802.11a mode the average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) , Final AV=PK-13.98



4.2.2 TEST PROCEDURE

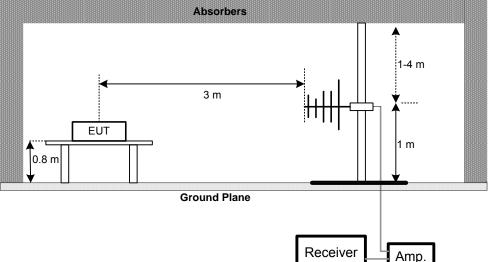
- a. The measuring distance of at 1.5m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; 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. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

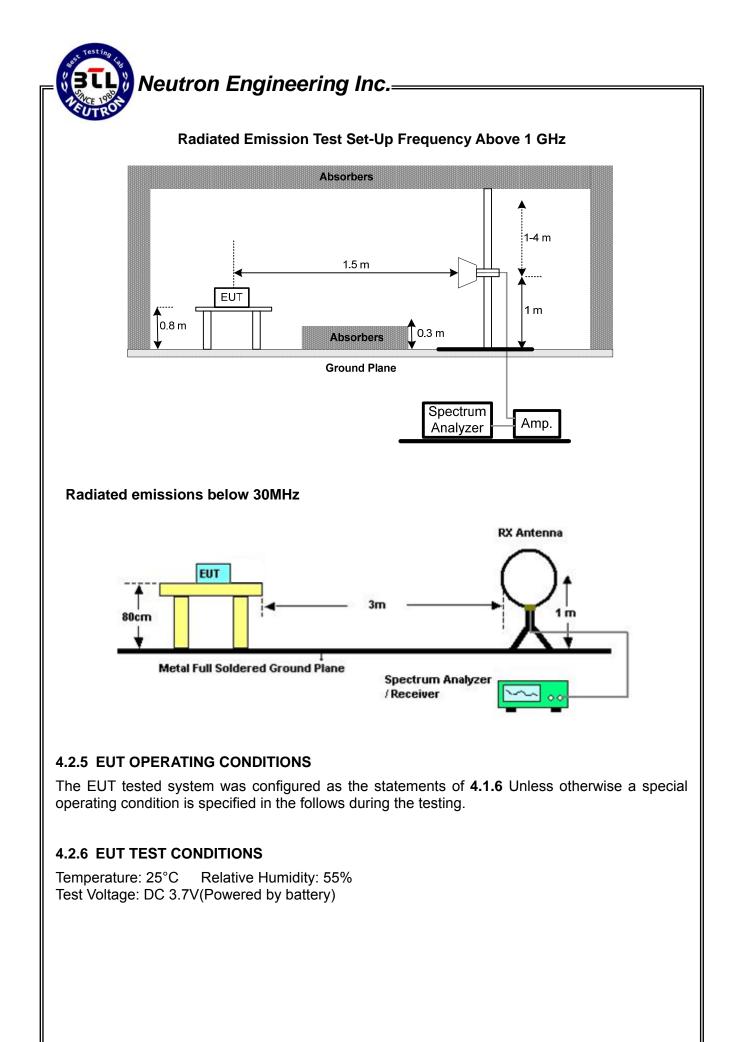
4.2.3 DEVIATION FROM TEST STANDARD

No deviation

4.2.4 TEST SETUP









4.2.7 TEST RESULTS (9K TO 30MHz)

Please refer to the Attachment B

4.2.8 TEST RESULTS (BETWEEN 30 TO 1000 MHz)

Please refer to the Attachment C.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) 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.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Attachment D.

Remark:

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated AV in column of "Note]. Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes: "X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand
- (7) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

5. 26dB SPECTRUM BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E/ RSS-210: 2010			
Test Item	Limit	Frequency Range (MHz)	Result
26 dB Bandwidth		5150MHz~5250	PASS

5.1.1 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 Parameters	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RB	300 kHz
VB	1000 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

c. Measured the spectrum width with power higher than 26dB below carrier

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 3.7V(Powered by battery)

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E/ RSS-210: 2010			
Test Item	Frequency Range (MHz)	Limit	Result
Conducted Output	5150 - 5250	not exceed the lesser of 50 mW (17dBm) or 4 dBm + 10log B (FCC Part15, Subpart E)	PASS
Power	5150 - 5250	not exceed the lesser of 200 mW (23dBm) or 10+ 10log B, (RSS-210: 2010)	PASS

Note: where "B" is the 26 dB emissions bandwidth in MHz.

6.1.1 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 Parameter	Setting
Attenuation	Auto
	Encompass the entire emissions bandwidth
Span Frequency	(EBW) of the signal
RBW	= 1 MHz.
VBW	≥ 3 MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	auto

b. Test was performed in accordance with method of KDB 789033 D01.

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ANCE 1982A	,		
6.1.2 DEVIATION FROM STANDARD			
No deviation.			
6.1.3 TEST SETUP			
EUT		SPECTRUM	
		ANALYZER	

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 3.7V(Powered by battery)

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E/ RSS-210: 2010			
Test Item	Limit	Frequency Range (MHz)	Result
Antenna conducted Spurious Emission	-27 dBm/1MHz	5150 – 5250	PASS

7.1.1 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 Parameter	Setting
Attenuation	Auto
RB	1000 kHz
VB	1000 kHz
Тгасе	Max Hold
Sweep Time	Auto

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 3.7V(Powered by battery)

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E/ RSS-210: 2010			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	4 dBm	5150 - 5250	PASS

8.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

Spectrum Parameter	Setting
Attenuation	Auto
Span Fraguanov	Encompass the entire emissions bandwidth (EBW) of
Span Frequency	the signal
RB	= 1 MHz.
VB	≥ 3 MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

8.1.2 DEVIATION FROM STANDARD

No deviation.

b.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 3.7V(Powered by battery)

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. PEAK EXCURSION MEASUREMENT

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E/ RSS-210: 2010			
Test Item	Limit	Frequency Range (MHz)	Result
Peak Excursion Measurement	13 dB	5150 - 5250	PASS

9.1.1 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 Parameter	Setting
Attenuation	Auto
Span Fraguanay	Encompass the entire emissions bandwidth (EBW) of
Span Frequency	the signal
RB	1000 kHz (Peak Trace) / 1000 kHz (Average Trace)
VB	3000 kHz (Peak Trace) / 3000 kHz (Average Trace)
Detector	Peak (Peak Trace) / RMS (Average Trace)
Тгасе	Max Hold
Sweep Time	60s

C. Peak Trace: Set RBW = 1 MHz, $VBW \ge 3$ MHz with peak detector and maxhold settings.

d. Average Trace: set RBW = 1 MHz, VBW = 3 MHz with RMS detector and trace average across 100 traces in power averaging mode.

9.1.2 DEVIATION FROM STANDARD

No deviation.



9.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

9.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

9.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 3.7V(Powered by battery)

9.1.6 TEST RESULTS

Please refer to the Attachment I.

10. FREQUENCY STABILITY MEASUREMENT

10.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E 15.407(g) / RSS-210 A1.1.4						
Test Item Limit Frequency Range Result (MHz)						
Frequency Stability	specified in the user's manual	5150 – 5250	PASS			

10.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

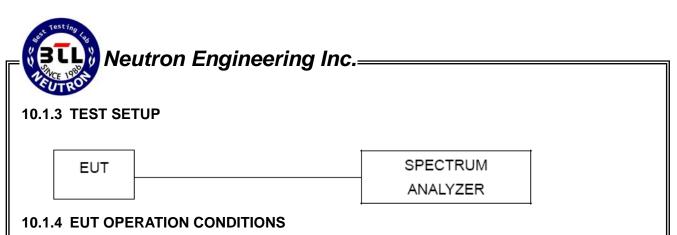
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RB	10 kHz
VB	10 kHz
Sweep Time	Auto

c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. user manual temperature is 0°C~55°C.

10.1.2 DEVIATION FROM STANDARD

No deviation.



The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

10.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 3.7V(Powered by battery)

10.1.6 TEST RESULTS

Please refer to the Attachment J.

11. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	LISN	EMCO	3816/2	00052765	Mar. 29, 2015		
2	LISN	R&S	ENV216	100087	Mar. 29, 2015		
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015		
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	Mar. 29, 2015		
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29, 2015		

	Radiated Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	EMCO	3142C	00066462	Mar. 29, 2015		
2	Antenna	EMCO	3142C	00066464	Mar. 29, 2015		
3	Amplifier	Agilent	8447D	2944A11203	Nov. 11, 2014		
4	Amplifier	Agilent	8447D	2944A11204	Nov. 11, 2014		
5	Spectrum Analyzer	Agilent	E4443A	MY48250370	Nov. 11, 2014		
6	RF Pre-selector	Agilent	N9039A	MY46520201	Nov. 11, 2014		
7	Test Cable	N/A	Cable_5m_8m _15m	N/A	Jan. 14, 2015		
8	Test Cable	N/A	Cable_5m_11 m_15m	N/A	Jan. 14, 2015		
9	Spectrum Analyzer	Agilent	E4447A	MY48250208	Nov. 11, 2014		
10	RF Pre-selector	Agilent	N9039A	MY46520214	Nov. 11, 2014		
11	Multi-Device Controller	ETS-Lindgren	2090	N/A	N/A		
12	Horn Antenna	EMCO	3115	9605-4803	Mar. 29, 2015		
13	Amplifier	Agilent	8449B	3008A02584	Nov. 11, 2014		
14	Spectrum Analyzer	Agilent	E4447A	MY48250208	Nov. 11, 2014		
15	Test Cable	Huber+Suhner	SUCOFLEX_1 5m_4m	N/A	Jan. 14, 2015		

	26dB Spectrum Bandwidth Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014		

	Maximum Conducted Output Power Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014		

	Antenna Conducted Spurious Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014		

	Power Spectral Density Measurement						
Item Kind of Equipment Manufacturer Type No. Serial No. Calib							
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014		

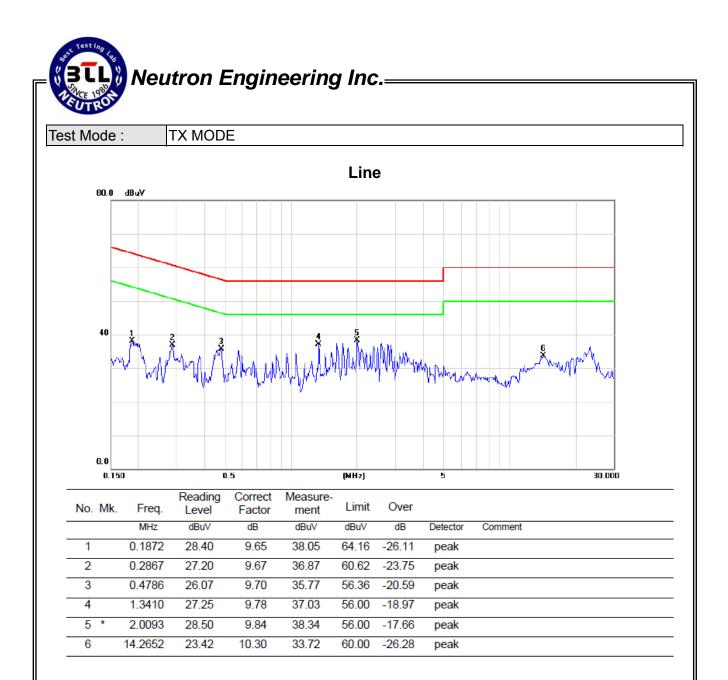
	Peak Excurison Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014		

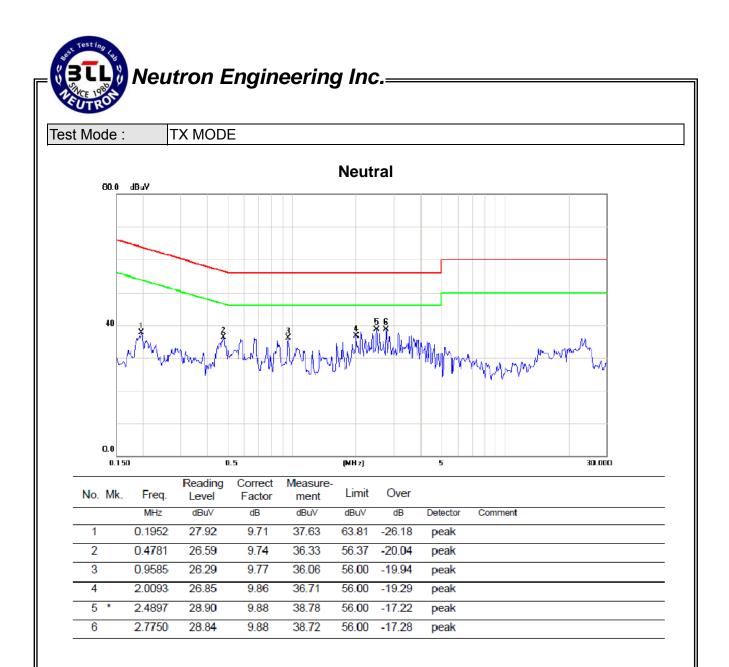
	Frequency Stability Measurement							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014			
2	Precision Oven Tester	HOLINK	H-T-1F-D	BA03101701	May. 25, 2014			

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of equipment list is one year.



ATTACHMENT A - CONDUCTED EMISSION







ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode:	T	X Mode					
Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
0.0212	0 /90 0°	(ubuv) 16.73	24.22	40.95	121.08	-80.12	AVG
0.0212	0°	20.44	24.22	40.95	121.08	-96.41	PEAK
	0°						AVG
0.0279	0°	16.81	23.80	40.61	118.69	-78.08	
0.0279	-	23.17	23.80	46.97	138.69	-91.72	PEAK
0.0333	0°	16.92	23.46	40.38	117.16	-76.78	AVG
0.0333	0°	22.63	23.46	46.09	137.16	-91.07	PEAK
0.0528	0°	20.82	22.34	43.16	113.15	-69.99	AVG
0.0528	0°	24.98	22.34	47.32	133.15	-85.83	PEAK
0.3170	0°	18.03	20.24	38.27	97.58	-59.31	AVG
0.3170	0°	22.19	20.24	42.43	117.58	-75.15	PEAK
1.5210	0°	16.87	19.55	36.42	63.96	-27.54	QP
Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
0.0175	90°	16.85	24.30	41.15	122.74	-81.59	AVG
0.0175	90°	22.16	24.30	46.46	142.74	-96.28	PEAK
0.0269	90°	16.82	23.86	40.68	119.01	-78.33	AVG
0.0269	90°	19.16	23.86	43.02	139.01	-95.99	PEAK
0.0375	90°	21.41	23.19	44.60	116.12	-71.52	AVG
0.0375	90°	28.13	23.19	51.32	136.12	-84.80	PEAK
0.0519	90°	16.14	22.36	38.50	113.30	-74.80	AVG
0.0519	90°	22.10	22.36	44.46	133.30	-88.84	PEAK
0.3260	90°	15.46	20.22	35.68	97.34	-61.66	AVG
0.3260	90°	20.14	20.22	40.36	117.34	-76.98	PEAK
1.6750	90°	16.16	19.53	35.69	63.12	-27.43	QP
Remark:							<u> </u>

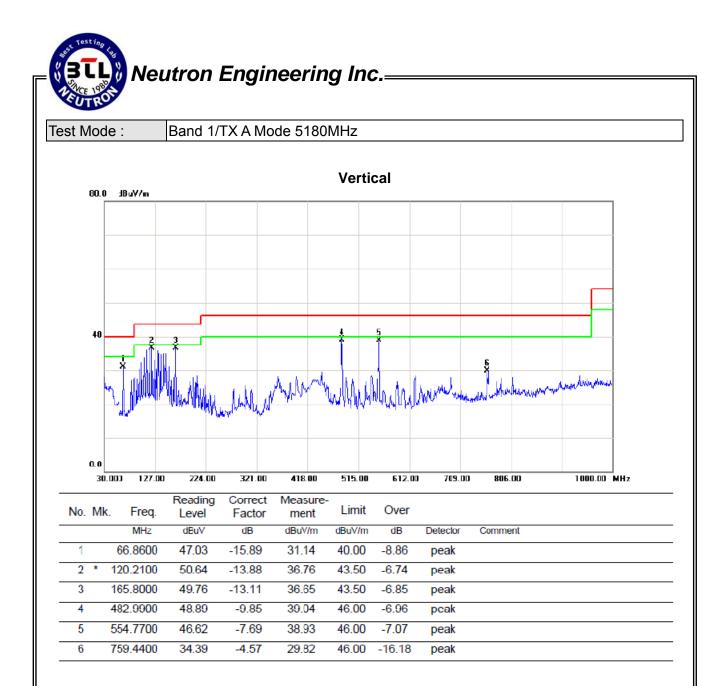
Remark:

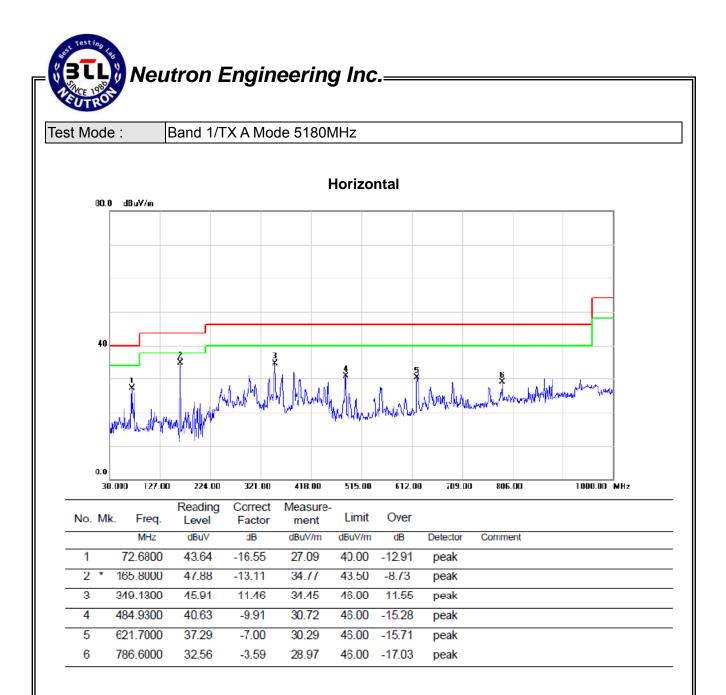
(1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

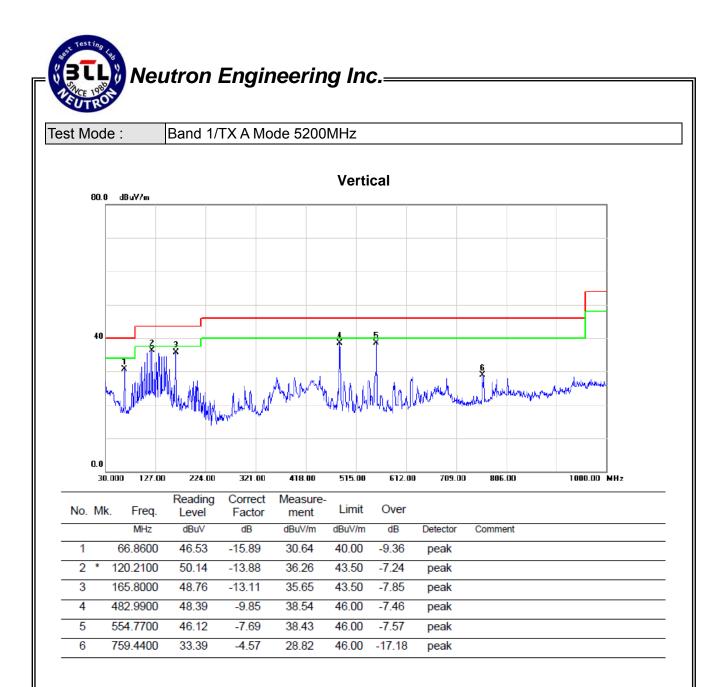
(2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
(3) Limit line = specific limits (dBuV) + distance extrapolation factor.

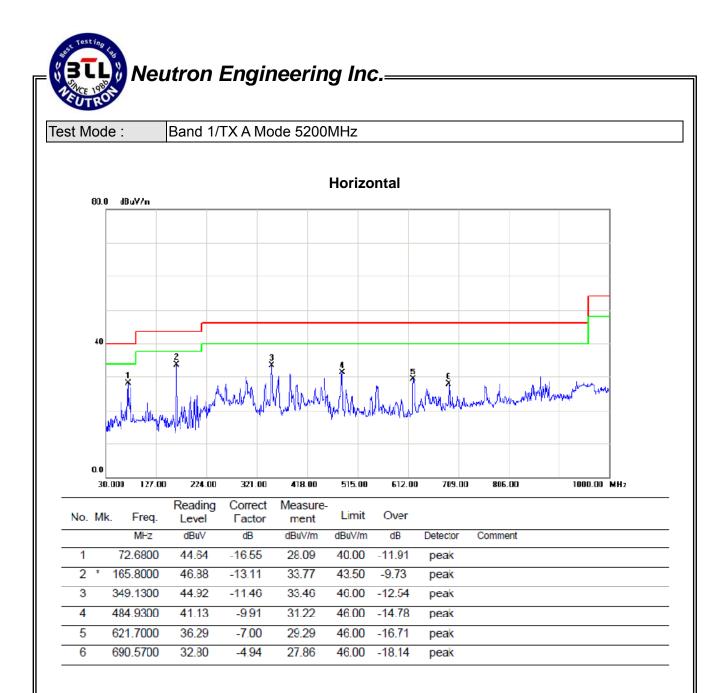


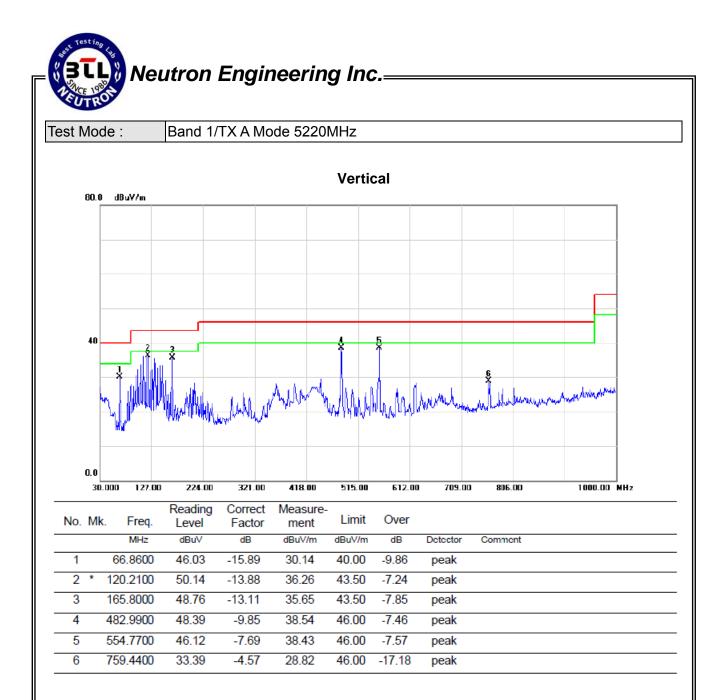
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

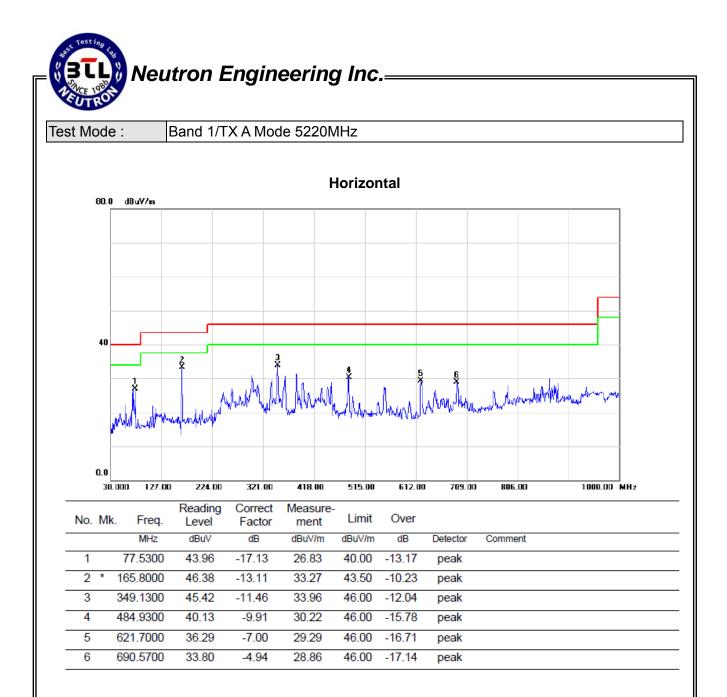


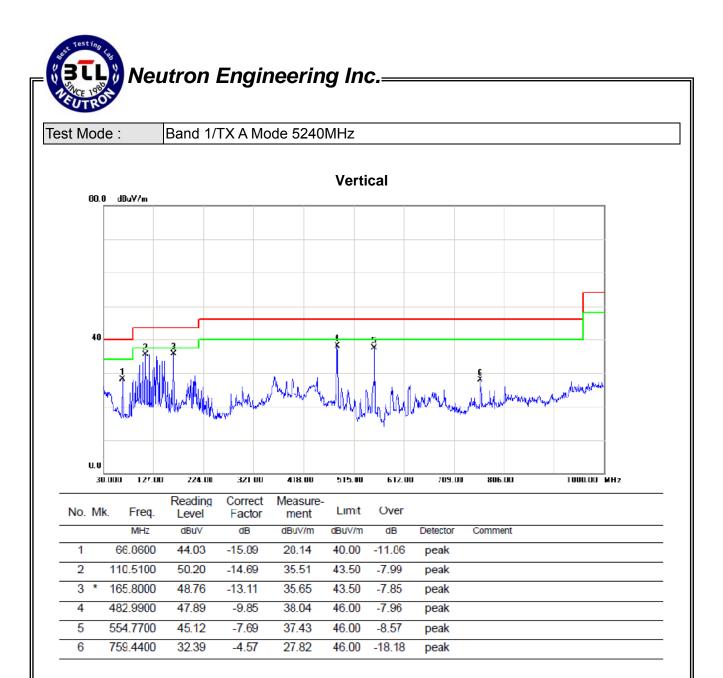


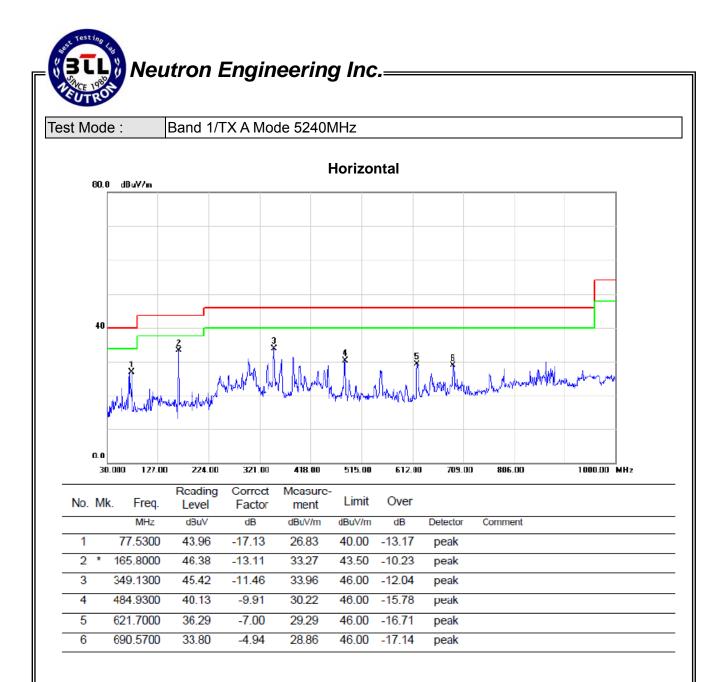














ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Drthog	ona	al Axis :	Х										
est M	ode	e:	Band 1	/ TX A N	/lode 5	180M⊢	lz						
	1												
No.		Freq.	Reading	Ant./CF	Measu (dBu	rement		imit uV/m)	Measur (dB		Limit (dBm)	Over	Detecto
	((MHz)	(dBuV)		(ава	v/m)	(uD	uv/m)	(UD)	,	(ubiii)	dB	
1		150.00	8.06	41.99	50.			3.30	-45		-27.00	-18.25	Peak
2	-	150.00	-5.92	41.99	36.		54	1.00	-59		-41.30	-17.93	AVG
3	-	184.70	42.37	42.13	84.			-	-10		-	-	Peak
4	51	184.70	28.39	42.13	70.	52		-	-24	.78	-	-	AVG
						Ve	ertic	al					
:	99.9 	dBuV/m											
						hunderale	n ma	3 Thank					
						f	·						
						Í.		4 ×					
					Med	ļ			W				
	60				MMRM				MAN MAN				
		b	m b A	where where	r					NW.	Li dan si duta	the test	
		(andre September 1999) Andre September 1999)	dWardowsondki z	Maki)Min.						ANT NIL	hor Michael Michael	hannahadasha	
			2				_						
			×										
1	19.9 513	30.000 5140	.00 5150.	00 5160.	00 517	0.00 51	80.00	5190	.00 5200	.00 521	10.00	5230.00 M	Hz
			Reading	g Correc	t Meas	sure-							
No.	Mk		Level	Facto			mit	Over					
		MHz	dBuV	dB	dBuV		iV/m	dB	Detector	Comm	ient		
1		5150.000		41.99			.30	-18.25	peak				
2	v	5150.000		41.99			.00	-17.93	AVG				
4		5184.700 5184.700		42.13 42.13			.30 .00	16.20 16.52	peak AVG				
4		5164.700	28.39	42.13	70.5	oz 54	.00	10.52	AVG				

BLL Neu	tron Engineering Inc.=
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Orthog	gonal Axis	: X									
Γest №	lode :	Band 1	/ TX A N	/lode 5 ⁻	180MH	lz					
							1				
No.	Freq.	Reading	Ant./CF	Measu (dBu		Limit (dBuV/m)	Measurer (dBm		Limit (dBm)	Over	Detector
	(MHz)	(dBuV)		``	,	``````````````````````````````````````		·	, ,	dB	
1	10360.17	28.21	16.03	44.		68.30	-51.00		-27.00	-24.06	Peak
2	10360.17	14.23	16.03	30.	26	54.00	-65.04	4	-41.30	-23.74	AVG
	80.0 dBuV/m				Ve	ertical					
	40		X								
			2 ×								
	0.0	0.00 0000	00 #070	100 400	0.00 ~~	E00.00 0415	0.00 00000	00 00	200.00	40050.001	411-
	1000.000 490					0500.00 2440	0.00 28300.0	00 323	200.00	40000.00 k	1HZ
No.	. Mk. Freq		Facto	r me	nt Li	imit Over	Detecto				
	MHz	dBuV	dB	dBuV		JV/m dB	Detector	Comm	ent		
1		-	16.03			.30 -24.06					
2	* 10360.1	7 14.23	16.03	30.2	26 54	.00 -23.74	AVG				

BILL BILL HEVER LANDA	Neutron Engineering I	nc.=
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		(T)(A F							
ode :	Band 1		/lode 5180MI	HZ					
Freq.	Reading	Ant./CF	Measurement (dBuV/m)	: Limit (dBuV/m)			Limit (dBm)	Over	Detecto
		41 99	50.01	68.30	-45	29	-27 00		Peak
									AVG
				-			-	-	Peak
5185.20	26.14	42.14	68.28	-			-	-	AVG
0.0 d0wY/m			Ho	orizontal]	
			ļ,	man in					
60			Windows		hthy and the state	nu.			
Angloring Malatina	himingoipathabhilif 2 X	halan yang tertering terte				<u>. 11 (() 115</u> 0424)	wr.shrunwyA	Appendenet/Pentral	
	40.00 5150.	00 5160.	00 5170.00 5	5180.00 5190.	.00 5200.	00 521	0.00	5230.00 M	Hz
	q. Level	Facto	or ment ^l						
						Comm	ent		
					-				
X 5185.20	40.12	42.14		8.30 13.96 4.00 14.28	pcak AVG				
	Dde : Freq. (MHz) 5150.00 5150.00 5185.20 5185.20 60 60 5185.20 5	Freq. Reading (MHz) (dBuV) 5150.00 8.02 5150.00 -5.96 5185.20 40.12 5185.20 26.14 0.9 JDuV/m 60 40.12 5185.20 26.14	Dde : Band 1/ TX A N Freq. Reading (MHz) (dBuV) 5150.00 8.02 41.99 5150.00 -5.96 41.99 5185.20 40.12 42.14 5185.20 26.14 42.14 5185.20 26.14 42.14 5185.20 26.14 42.14 5185.20 26.14 42.14 50	Dode : Band 1/ TX A Mode 5180MI Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) 5150.00 8.02 41.99 50.01 5150.00 -5.96 41.99 36.03 5185.20 40.12 42.14 82.26 5185.20 26.14 42.14 68.28 Ho a.g. a.g.	Dde: Band 1/ TX A Mode 5180MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) 5150.00 8.02 41.99 50.01 68.30 5150.00 -5.96 41.99 36.03 54.00 5185.20 40.12 42.14 82.26 - 5185.20 26.14 42.14 68.28 - Horizontal 2 5130.000 5140.00 5150.00 5120	Dde : Band 1/ TX A Mode 5180MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) Measure (dBuV/m) 5150.00 8.02 41.99 50.01 68.30 -45. 5150.00 -5.96 41.99 36.03 54.00 -59. 5185.20 40.12 42.14 82.26 - - -13. 5185.20 26.14 42.14 68.28 - -27.	Dde : Band 1/ TX A Mode 5180MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) Measurement (dBm) 5150.00 8.02 41.99 50.01 68.30 -45.29 5150.00 -5.96 41.99 36.03 54.00 -59.27 5185.20 40.12 42.14 82.26 - -13.04 5185.20 26.14 42.14 68.28 - -27.02 Horizontal ***********************************	bde : Band 1/ TX A Mode 5180MHz Freq. Reading (MHz) Ant./CF (dBuV/m) Measurement (dBuV/m) Limit (dBuV/m) Measurement (dBm) Limit (dBm) 5150.00 8.02 41.99 50.01 68.30 -45.29 -27.00 5150.00 -5.96 41.99 36.03 54.00 -59.27 -41.30 5185.20 40.12 42.14 82.26 - -13.04 - 5185.20 26.14 42.14 68.28 - -27.02 - Horizontal a a a - -27.02 -	bde : Band 1/ TX A Mode 5180MHz Freq. Reading (MHz) Ant./CF (dBuV/m) Measurement (dBuV/m) Limit (dBuV/m) Measurement (dBm) Limit (dBm) Over dB 5150.00 8.02 41.99 50.01 68.30 -45.29 -27.00 -18.29 5150.00 -5.96 41.99 36.03 54.00 -59.27 -41.30 -17.97 5185.20 40.12 42.14 82.26 - -13.04 - - 5185.20 26.14 42.14 68.28 - -27.02 - - Horizontal Reading 2 Transfer Merizontal Correct Measure- Factor Measure- Factor Measure- Factor Measure- Evel Limit Over M+-z dBuV dB dBuV/m dB Detector Comment 520.00 520.00 520.00 520.00 520.00 520.00 520.00 520.00 520.00 520.00 520.00 520.00 520.00 520.00 520.00 520.00<

	onal Axis										
est Mo	ode :	Band 1	/ TX A N	Node 51	80MH	IZ					
No.	Freq.	Reading	Ant./CF	Measure (dBuV		Limit (dBuV/m)		asurement (dBm)		Over	Detecto
	(MHz)	(dBuV)		,	,	(uouv/iii)		(авш)	(dBm)	dB	<u> </u>
1	10360.25	25.23	16.03	41.2		68.30	-	-54.04	-27.00	-27.04	Peak
2	10360.25	11.25	16.03	27.2	8	54.00		-68.02	-41.30	-26.72	AVG
	80.0 dBuV/m				Hor	rizontal	1				1
	40		1 X								
			2 X								
	0.0										
	1000.000 490	00.00 8800. Reading			ure-		400.00	28300.00	32200.00	40000.00	MHZ
No.	Mk. Free	q. Level	Facto	or men		.imit Ove					
	MHz	dBuV	dB	dBuV/	m dB	uV/m dB	De	etector Con	nment		

2 * 10360.25

11.25

16.03

27.28

54.00 -26.72

AVG

Fest M	onal Axis			/lode 5200M⊢	17				
					14				
No.	Freq.	Reading	Ant./CF	Measurement (dBuV/m)	Limit	Measurement	Limit	Over	Detecto
	(MHz)	(dBuV)		(ubuv/iii)	(dBuV/m)	(dBm)	(dBm)	dB	
1	5203.20	42.52	42.21	84.73	-	-10.57	-	-	Peak
2	5203.20	28.54	42.21	70.75	-	-24.55	-	-	AVG
	99.9 dBuV/m								
					you the the way				
				Jan Marina	antronom				
					2 X				
	60	andunaaaaa		Woww		*Wymphydduru			
	ere warden war	onderhander	www.	4		Winter	utranthanindallard	NormAnalista	
	19.9								
	5150.000 51	60.00 5170	.00 5180	.00 5190.00 5	200.00 5210	.00 5220.00 52	30.00	5250.00 M	Hz
	MI	Readin q. Level	g Corre Facto		imit Over				
No									
No	MH:		dB 42.21		uV/m dB 8.30 16.43	Detector Comm peak	nent		

rtho	gona	al Axis :	X								
est N	lode	e :	Band 1	/ TX A N	Node 52	200MH	z				
	-			1	1						r
No.		Freq.	Reading	Ant./CF	Measur (dBu ^v		Limit (dBuV/m)	Measurem (dBm)	ent Limit (dBm)	Over	Detecto
		(MHz)	(dBuV)		,	,	. ,	, ,	. ,	dB	
1	-	400.16	28.93	15.97	44.9		68.30	-50.40	-27.00	-23.40	Peak
2	10	400.16	14.95	15.97	30.9	92	54.00	-64.38	-41.30	-23.08	AVG
	80.0	dBuV/m				Ve	ertical				-
]
											-
	40			1 X							
				2 X							
											1
	0.0										
		0.000 4900	.00 8800.	00 1270	0.00 166	00.00 2	0500.00 244	00.00 28300.0	0 32200.00	40000.00	_ D MHz
No.	Mk.	Freq.	Reading Level	Facto	r me	nt L	imit Over				
		MHz	dBuV	dB	dBuV		uV/m dB	Detector	Comment		
1		10400.16		15.97			3.30 -23.40				
2	*	10400.16	14.95	15.97	30.9	2 54	4.00 -23.08	3 AVG			

est M	ode :	Band 1	/ IXAN	/lode 5200M⊦	IZ				
No.	Freq.	Reading	Ant./CF	Measurement		Measurement	Limit	Over	Detecto
	(MHz)	(dBuV)		(dBuV/m)	(dBuV/m)	(dBm)	(dBm)	dB	1
1	5204.70	40.74	42.22	82.96	-	-12.34	-	-	Peak
2	5204.70	26.49	42.22	68.71	-	-26.59	-	-	AVG
					1.				
				mm	mannen				
				/	2				
	60		. n. A	por and a start of the start of		When			
	San panghana		interpreter 1			the get and all and al	James Marchalogy Parts A	handradha	
	19.9								

r	NO.	MK.	Freq.	Level	Factor	ment	LIMIL	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	X	5204.700	40.74	42.22	82.96	68.30	14.66	peak	
	2	* {	5204.700	26.49	42.22	68.71	54.00	14.71	AVG	

onal A>	kis : X											
ode :	Bar	nd 1/	TXAN	/lode 5	200MH	lz						
- Frag	Beer	dina		Magau		Limit			nt	Lingit	Over	<u> </u>
			Ant./CF									Detecto
					,	`	<u> </u>	. ,		· · ·	dB	<u> </u>
												Peak
10400.2	20 11.4	49	15.97	27.	46	54.00		-67.84		-41.30	-26.54	AVG
80.0 ď	Bu∀/m				Но	rizontal						٦
-												-
			1 X									1
40												1
			2 X									1
												-
0.0			0.00 40		0.000.00						10000 01	
						20500.00	24 400.00	28300.00	J 322	:00.00	40000.00	MHZ
o. Mk.	Freq.	Level	l Fac	tor n	nent							
1 10									Comme	ent		
1 104	100.20	25.47	15.8	37 4	1_44	68.30 -2	0.86	реак				
	ode : Freq. (MHz 10400.2 10400.2 80.0 de 80.0 de 0.0 0.0 1000.00	Freq. Read (MHz) (dBu 10400.20 25.4 10400.20 11.4 80.0 dBuV/m 80.0 dBuV/m 40 40 0.0 1000.000 4900.00 5. Mk. Freq. MHz	ode : Band 1/ Freq. Reading (MHz) (dBuV) 10400.20 25.47 10400.20 11.49 80.0 dBuV/m 40	ode : Band 1/ TX A M Freq. Reading (MHz) (dBuV) 10400.20 25.47 10400.20 11.49 10400.20 11.49 80.0 dBuV/m 40 1 40 1 40 1 40 1 2 X 40 1 40 1 40 1 2 X 0.0 1000.000 400 12 2 X 30.0 12 30.0 12 30.0 12 30.0 12 30.0 12 30.0 12 30.0 12 <td>ode : Band 1/ TX A Mode 52 Freq. Reading (dBuV) Ant./CF Measur (dBuV) 10400.20 25.47 15.97 41.1 10400.20 11.49 15.97 27.4 80.0 dBuV/m </td> <td>ode : Band 1/ TX A Mode 5200MH Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) 10400.20 25.47 15.97 41.44 10400.20 11.49 15.97 27.46 Hor 80.0 dBuV/m a dBuV/m 40 1 2 40 1 2 Ant./CF Measurement (dBuV/m) a dBuV/m a dBuV/m 6.0 2 2 0.0 2 2 2 0.0 2 2 2 0.0 2 2 2 0.0 2 2 2 0.0 2 2 2 0.0 2 2 2 10000.000 8900.00 12700.00 16600.00 0.0 MHz dBuV dB dBuV/m</td> <td>ode : Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) 10400.20 25.47 15.97 41.44 68.30 10400.20 11.49 15.97 27.46 54.00 Horizontal 80.0 dBuV/m 40 2 2 40 2 2 40 2 1000.000 4900.00 6000.00 12700.00 16600.00 20500.00 0.0 Reading 1000.000 4900.00 Correct Factor Measure- ment Limit (Dimit (dBuV/m)</td> <td>Dode : Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) Me (dBuV/m) 10400.20 25.47 15.97 41.44 68.30 1 10400.20 11.49 15.97 27.46 54.00 1 Horizontal 80.0 dBuV/m 40 1 1 1 1 1 40 1 1 1 1 1 1 40 1 1 1 1 1 1 1 1000.000 4900.00 8900.00 12700.00 16600.00 20500.00 24400.00 0.0 1 1 1 1 1 1 1 1 0.0 1000.000 4900.00 8000.00 12700.00 16600.00 20500.00 24400.00 0.0 1000.000 4900.00 8000.00 12700.00 16600.00 20500.00 24400.00 0.0 MHz dBuV dB dBuV/m dB 1 1</td> <td>Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) Measureme (dBm) 10400.20 25.47 15.97 41.44 68.30 -53.86 10400.20 11.49 15.97 27.46 54.00 -67.84 Horizontal 80.0 dBuV/m 40 2 2 X 1 1 2 X 1 X 1 X 1 X X 1 X X X X X X X X X X X <td>Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF (dBuV/m) Measurement (dBuV/m) Limit (dBuV/m) Measurement (dBu/m) Measurement (dBu/m)</td><td>Dode : Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) Measurement (dBm) Limit (dBm) 10400.20 25.47 15.97 41.44 68.30 -53.86 -27.00 10400.20 11.49 15.97 27.46 54.00 -67.84 -41.30 Horizontal # # # # # # # # # # # # # # # # # # #</td><td>Dode : Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) Measurement (dBm) Limit (dBm) Over dB 10400.20 25.47 15.97 41.44 68.30 -53.86 -27.00 -26.86 10400.20 11.49 15.97 27.46 54.00 -67.84 -41.30 -26.54 Horizontal 80.0 #BuV/m 4 1 2 2 2 2 2 40 2 2 2 2 2 2 40 2 40 40 40 4000.00 29300.00 32200.00 40000.00 30.0 480/U 480 680/U 24400.00 29300.00 32200.00 40000.00 MHz dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m</td></td>	ode : Band 1/ TX A Mode 52 Freq. Reading (dBuV) Ant./CF Measur (dBuV) 10400.20 25.47 15.97 41.1 10400.20 11.49 15.97 27.4 80.0 dBuV/m	ode : Band 1/ TX A Mode 5200MH Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) 10400.20 25.47 15.97 41.44 10400.20 11.49 15.97 27.46 Hor 80.0 dBuV/m a dBuV/m 40 1 2 40 1 2 Ant./CF Measurement (dBuV/m) a dBuV/m a dBuV/m 6.0 2 2 0.0 2 2 2 0.0 2 2 2 0.0 2 2 2 0.0 2 2 2 0.0 2 2 2 0.0 2 2 2 10000.000 8900.00 12700.00 16600.00 0.0 MHz dBuV dB dBuV/m	ode : Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) 10400.20 25.47 15.97 41.44 68.30 10400.20 11.49 15.97 27.46 54.00 Horizontal 80.0 dBuV/m 40 2 2 40 2 2 40 2 1000.000 4900.00 6000.00 12700.00 16600.00 20500.00 0.0 Reading 1000.000 4900.00 Correct Factor Measure- ment Limit (Dimit (dBuV/m)	Dode : Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) Me (dBuV/m) 10400.20 25.47 15.97 41.44 68.30 1 10400.20 11.49 15.97 27.46 54.00 1 Horizontal 80.0 dBuV/m 40 1 1 1 1 1 40 1 1 1 1 1 1 40 1 1 1 1 1 1 1 1000.000 4900.00 8900.00 12700.00 16600.00 20500.00 24400.00 0.0 1 1 1 1 1 1 1 1 0.0 1000.000 4900.00 8000.00 12700.00 16600.00 20500.00 24400.00 0.0 1000.000 4900.00 8000.00 12700.00 16600.00 20500.00 24400.00 0.0 MHz dBuV dB dBuV/m dB 1 1	Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) Measureme (dBm) 10400.20 25.47 15.97 41.44 68.30 -53.86 10400.20 11.49 15.97 27.46 54.00 -67.84 Horizontal 80.0 dBuV/m 40 2 2 X 1 1 2 X 1 X 1 X 1 X X 1 X X X X X X X X X X X <td>Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF (dBuV/m) Measurement (dBuV/m) Limit (dBuV/m) Measurement (dBu/m) Measurement (dBu/m)</td> <td>Dode : Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) Measurement (dBm) Limit (dBm) 10400.20 25.47 15.97 41.44 68.30 -53.86 -27.00 10400.20 11.49 15.97 27.46 54.00 -67.84 -41.30 Horizontal # # # # # # # # # # # # # # # # # # #</td> <td>Dode : Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) Measurement (dBm) Limit (dBm) Over dB 10400.20 25.47 15.97 41.44 68.30 -53.86 -27.00 -26.86 10400.20 11.49 15.97 27.46 54.00 -67.84 -41.30 -26.54 Horizontal 80.0 #BuV/m 4 1 2 2 2 2 2 40 2 2 2 2 2 2 40 2 40 40 40 4000.00 29300.00 32200.00 40000.00 30.0 480/U 480 680/U 24400.00 29300.00 32200.00 40000.00 MHz dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m</td>	Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF (dBuV/m) Measurement (dBuV/m) Limit (dBuV/m) Measurement (dBu/m) Measurement (dBu/m)	Dode : Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) Measurement (dBm) Limit (dBm) 10400.20 25.47 15.97 41.44 68.30 -53.86 -27.00 10400.20 11.49 15.97 27.46 54.00 -67.84 -41.30 Horizontal # # # # # # # # # # # # # # # # # # #	Dode : Band 1/ TX A Mode 5200MHz Freq. Reading (MHz) Ant./CF Measurement (dBuV/m) Limit (dBuV/m) Measurement (dBm) Limit (dBm) Over dB 10400.20 25.47 15.97 41.44 68.30 -53.86 -27.00 -26.86 10400.20 11.49 15.97 27.46 54.00 -67.84 -41.30 -26.54 Horizontal 80.0 #BuV/m 4 1 2 2 2 2 2 40 2 2 2 2 2 2 40 2 40 40 40 4000.00 29300.00 32200.00 40000.00 30.0 480/U 480 680/U 24400.00 29300.00 32200.00 40000.00 MHz dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m

Orthog	onal	Axis :	Х										
est M	ode	:	Band 1	/ TX A N	/lode 52	220MH	Z						
													1
No.	F	req.	Reading	Ant./CF	Measur (dBu ^v		Lim (dBuV		Measur (dB		Limit (dBm)	Over	Detecto
	(N	/Hz)	(dBuV)		(aba	v/III)	(uDu v	,,,,,,	(GD)	,	(dBiii)	dB	
1	522	24.80	42.12	42.30	84.4	42	-		-10.	.88	-	-	Peak
2	522	24.80	28.14	42.30	70.4		-		-24.		-	-	AVG
3	525	50.00	8.36	42.40	50.	76	68.3	0	-44.	54	-27.00	-17.54	Peak
4	525	50.00	-5.62	42.40	36.	78	54.0	0	-58.	52	-41.30	-17.22	AVG
						Ve	ertical						
	99.9 	dBu¥/m											
							Į						
						frengtsperk	- Arvanto	tally					
						1	2 X	γ					
	-					d	×	-4					
	60		ahlwanyaanta		Mapping				W400		Korrandrida		
				. Alter	per la l'a v				r aller fr	di la			
	Ŷ	Manapandar	applies Approval	AMANNA MALE						MANA	moundal	and the second	
											4		
	19.9												
		0.000 518	80.00 5190	.00 5200	.00 521	0.00 53	220.00	5230	.00 5240	. 30 52	50.00	5270.03 N	Hz
No	. Mk.	Free	Readin Level	g Corre Facto			imit (Over					
		MHZ		dB	dBu∨	/m dB	ıV/m	dB	Delector	Comm	ent		
1		5224.80					8.30 1	6.12	peak				
2		5224.80						6.44	AVG				
3		5250.00					8.30 -1	7.54	peak				
4		5250.00	0 -5.62	42.40) 36.7	78 54	.00 -1	7.22	AVG				

BTL BTL WELL WELL BTL WELL BTL WELT ROT	Neutron Engineering Inc.=
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	onal Axis											
est M	ode :	Band 1	/ TX A N	/lode 52	220MF	lz						
No.	Freq. (MHz)	Reading (dBuV)	Ant./CF	Measur (dBu)		Limit (dBuV/r		leasurer (dBm		Limit (dBm)	Over dB	Detecto
1	10440.16	29.14	15.91	45.0)5	68.30		-50.2	5	-27.00	-23.25	Peak
2	10440.19	15.16	15.91	31.0		54.00		-64.23		-41.30	-22.93	AVG
	80.0 dBuV/m				Ve	ertical						1
	40		1 X 2 X									
			^									
	0.0	D. OO 8800.	00 1270	0.00 166	00.00 2	20500.00	24400.0	0 29300). 00 3(2200.00	40000.00	MHz
No.			Facto	or me	nt L		ver					
1	MHz 10440.16	dBu∨ 3 29.14	dB 15.91	dBu∨ 45.0		uV/m c 8.30 -23	25	Detector peak	Com	ment		
	10440.10	J 20.14	10.01	40.0	5 0	0.00 -20	.20	peak				



Orthog	gonal Axis :	: X							
est M	lode :	Band 1	/ TX A N	/lode 5220M⊦	lz				
No.	Freq.	Reading	Ant./CF	Measurement (dBuV/m)	Limit (dBuV/m)	Measurem (dBm)		Over	Detector
	(MHz)	(dBuV)						dB	
1	5212.40	40.17	42.24	82.41	-	-12.89) –	-	Peak
2	5212.40	26.19	42.24	68.43	-	-26.87	-	-	AVG
3	5250.00	7.97	42.40	50.37	68.30	-44.93	-27.00	-17.93	Peak
4	5250.00	-6.01	42.40	36.39	54.00	-58.91	-41.30	-17.61	AVG
99 .9	3 dBuV/m			Но	rizontal				7
60	1			Z	half have a	Whate.			-
) WYYU ^{T-} Medawith	unahangkan	www.				Mindingunany *	son da en altra de la deserva	-
19.9	3								
5	5170.000 5180.0	0 5190.00	5200.00	0 5210.00 53	220.00 5230	0.00 5240.00	0 5250.00	5270.00	MHz
No. M	lk. Freq.	Reading Level	Correct Factor		imit Over				
	MILLE	dBuV	dB	dBuV/m dBu	uV/m dB	Detector	Comment		
	MHz								
1 X	5212.400	40.17	42.24		3.30 14.11				
2 *	5212.400 5212.400	26.19	42.24 42.24		3.3014.114.0014.43				
	5212.400			68.43 54		AVG			

rthoc	gonal Axis :	X									
est M	lode :	Band 1	/ TX A N	/lode 52	220MH	lz					
						1	1			1	<u> </u>
No.	Freq.	Reading	Ant./CF	Measu (dBu	rement V/m)	Limit (dBuV/m)	Measur (dBi		Limit (dBm)	Over	Detecto
	(MHz)	(dBuV)		,	,			·	. ,	dB	
1	10440.14	25.73	15.91	41.		68.30	-53.		-27.00	-26.66	Peak
2	10440.14	11.75	15.91	27.	66	54.00	-67.	64	-41.30	-26.34	AVG
1	80.0 dBuV/m				Hor	rizontal					
			_								
	40		X								
			2 X								
'	1000.000 4900.	.00 8800.0	00 12700	00 100	0.00 20)500.00 2440	00.00 2830	0.00 22	200.00	40000.001	
							00.00 2030	0.00 32	200.00	40000.001	чпz
No.	Mk. Freq.	Reading Level	Correct Factor			imit Over					
	MHz	dBuV	dB	dBuV	/m dBu	uV/m dB	Detector	Comn	nent		
1	10440.14	25.73	15.91	41.6	68 68	.30 -26.66) peak				
2	* 10440.14	11.75	15.91	27.6	6 54	.00 -26.34	AVG				

	· ·	nal Axis :										
est M	00	e:	Band 1	/ TX A N	/lode 5240N	ЛНz						
	1	ī						1			T	
No.		Freq.	Reading	Ant./CF	Measureme (dBuV/m)		Limit BuV/m)	Measu (dE		Limit (dBm)	Over	Detecto
		(MHz)	(dBuV)		. ,	(0.	50,000	,	,	(48.11)	dB]
1	-	5244.60	42.40	42.38	84.78	\perp	-		.52	-	-	Peak
2	5	5244.60	28.88	42.38	71.26		-	-24	.04	-	-	AVG
93	9.9 	dBu¥/m				Verti	cal					
							1 Anna					
						W-Yrm	Mad America					
					V		2 X					
					J.M		1	λ.				
	C0				KYMY/WWW		Y	Monthly .				
			· • •		1			nηγι	Hours and	all Anna a		
	1	antherenter	riyanthamina Nobi	hhttp://www.					ግ የግድ የ	numbhaluctannts	edining and a state of the second state of the	
19	9.9	90.000 5200.0	.00 5210.0	0 5220.0	0 5230.00	5240.00	5250.0	00 5260.	00 5270	B. 00	5290.00 MF	
	91:	90.000 5200.	Reading			5240.00	5250.0	и <u>9</u> 260.	00 5270	0.00	5290.00 MF	12
	Mk	. Freq.	Level	Factor		Limit	Over					
No.		MHz	dBuV	dB		BuV/m	dB	Detector	Comme	ent		
						00.00	16.48	peak				
1		5211.600 5244.600		42.38 42.38		58.30 54.00	17.26	AVG				

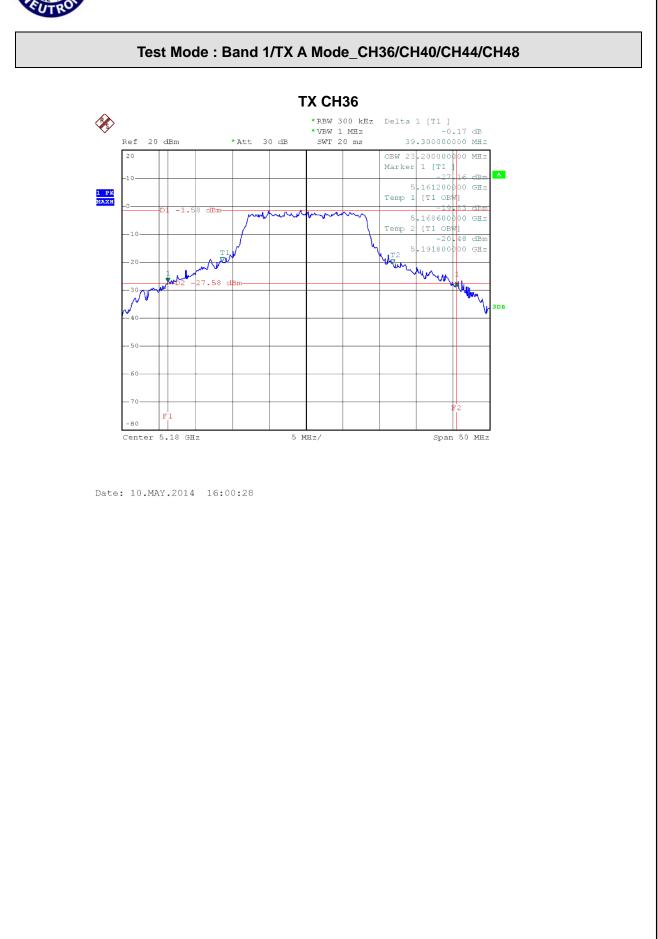
est M	lode :	Band 1	/ TX A N	Aode 52	240MH	IZ					
	т	r	1	1			ſ	— т		T	
No.	Freq.	Reading	Ant./CF	Measur (dBu)	rement V/m)	Limit (dBuV/m)	Measure (dBm		Limit (dBm)	Over	Detect
	(MHz)	(dBuV)			,		•			dB	\downarrow
1	10480.16	29.14	15.85	44.		68.30	-50.3		-27.00	-23.31	Peak
2	10480.16	15.16	15.85	31.	01	54.00	-64.2	9	-41.30	-22.99	AVG
	80.0 dBuV/m				Ve	ertical					٦
											-
											1
											1
			1 X								
	40										1
			2 X								
											-
											1
I	0.0 1000.000 4900	D. 00 8800. C	00 12700	0.00 166	00.00 20	0500.00 2440	0.00 28300	100 3	2200.00	40000.00	
		Reading									
No.	Mk. Freq.	. Level	Facto			imit Over.					
	MHz	dBu∀	dB	dBuV		uV/m dB	Detector	Comr	ment		
1	10480.16		15.85			8.30 -23.31					
2	* 10480.16	3 15.16	15.85	5 31.0)1 54	4.00 -22.99) AVG				

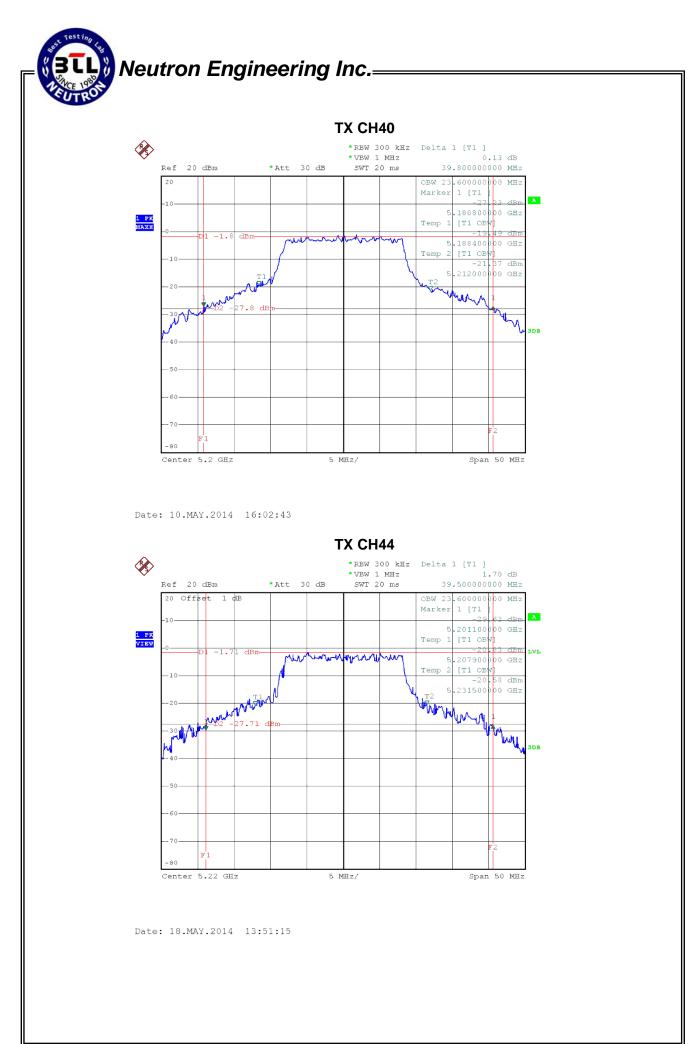
	onal A	AXIS :	-								
est M	ode :		Band 1	/ TX A N	/lode 5240N	1Hz					
										1	1
No.	Fre	eq.	Reading	Ant./CF	Measuremer (dBuV/m)	nt Limit (dBuV/		urement Bm)	Limit (dBm)	Over	Detecto
	(Mł	lz)	(dBuV)		(aba v/m)	(abav/	(0	Dill)	(ubiii)	dB	
1	5244		40.34	42.38	82.72	-		2.58	-	-	Peak
2	5244	.60	26.36	42.38	68.74	-	-2	6.56	-	-	AVG
99	.9 dB	uV/m			н	orizonta	I				
					,thomas	WAY WANTA	۱ –				
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					Å	×	1				
	60		eductory		when		Almake, a				
		15 LK	at the second	aller	AND THE T		. With	Muy	capathornizz	ala da	
	UP/OP-	AN AN AN	wanter water	NAME OF				manner	canalycountry	AN TOWN AND THE AN	
19											
	5190.00	0 5200.0				5240.00 5	250.00 526	50.00 527	0.00	5290.00 M	Hz
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit Ov	er				
		MHz	dBuV	dB	dBuV/m d	BuV/m dB	B Detecto	or Comm	ent		
1	X 524	4.600	40.34	42.38	82.72 6	68.30 14.4	42 peak				
2	* 524	1.600	26.36	42.38	68.74 5	54. 00 14 .7	74 AVG				

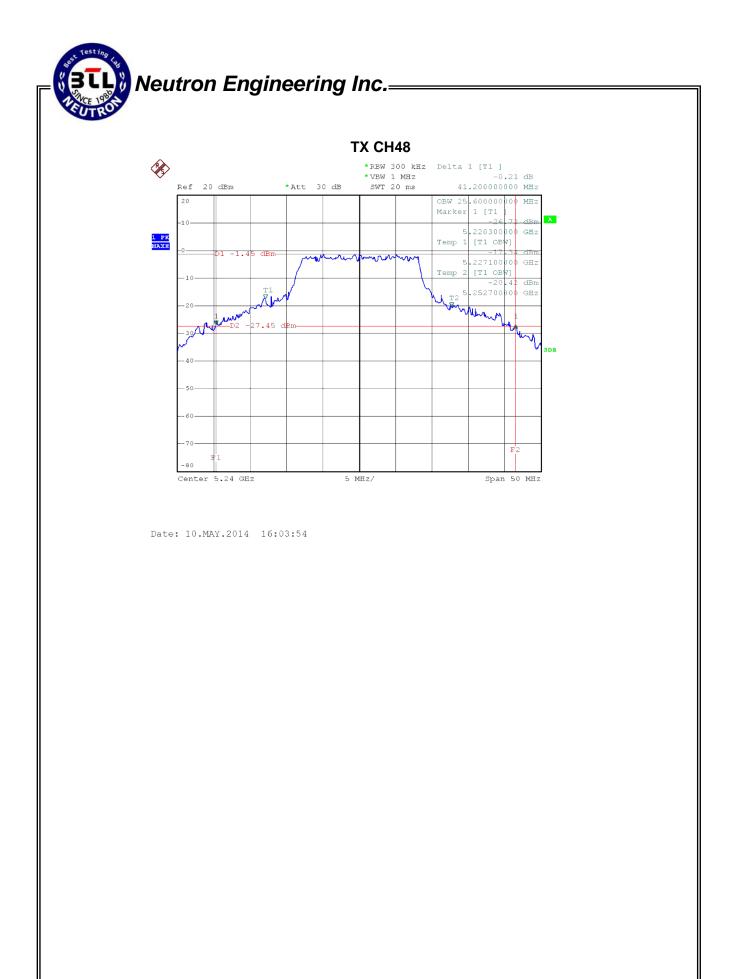
	gonal Ax									
est M	/lode :	Band 2	1/ TX A N	Node 52	40MH	Z				
No.	Freq.	Reading	Ant./CF	Measur (dBu\		Limit (dBuV/m)	Measuremer (dBm)	nt Limit (dBm)	Over	Detecto
	(MHz)	(dBuV)	1		/11)	(ubu viii)	(מטוו)	(ubiii)	dB	
1	10480.1	4 25.62	15.85	41.4	7	68.30	-53.83	-27.00	-26.83	Peak
2	10480.1	4 11.64	15.85	27.4	9	54.00	-67.81	-41.30	-26.51	AVG
	90.0 dBuV/	m			Hor	izontal				
	40		1 X							_
			2 X							
										_
	0.0									
No	1000.000 4 Mk. Fr	Readin	g Correc	ct Meas	ure-	244 imit Over	.00.00 28300.00 r	32203.00	40000.	00 MHz
NO.	MIK. TI	-	dB	dBuV		uV/m dB		Comment		
1	10480					8.30 -26.8				
2	* 10480	~				4.00 -26.5				



ATTACHMENT E – 26DB BANDWIDTH









ATTACHMENT F - MAXIMUM OUTPUT POWER

Report No.: NEI-FICP-2-1404C046

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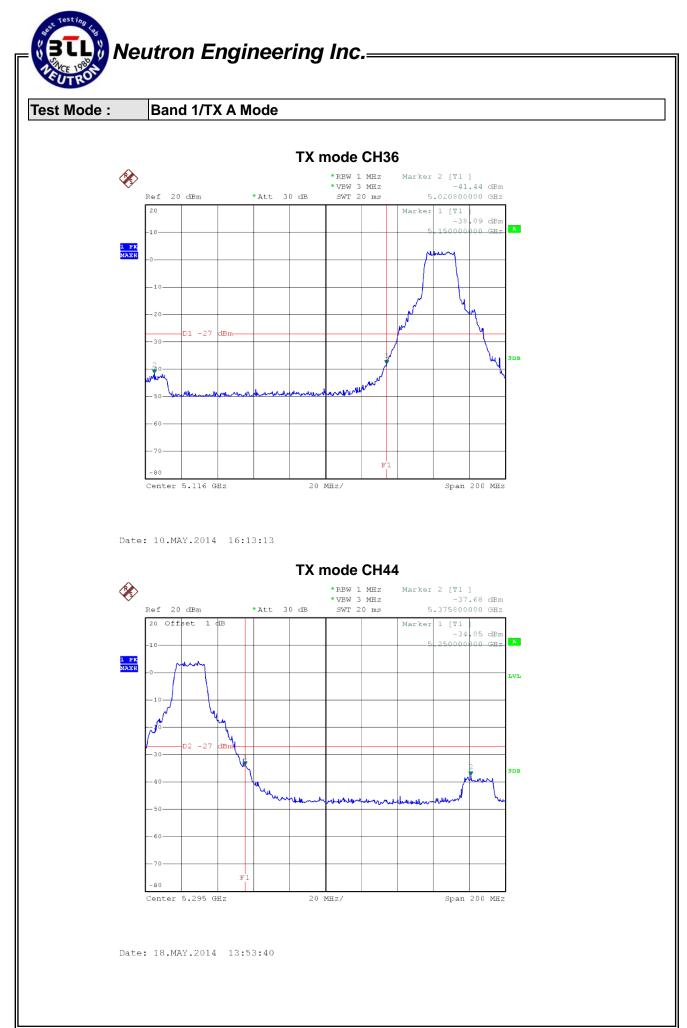
Test Mode :Band 1/TX A Mode											
Test Channel	Frequency (MHz)	FCC Part 15E Conducted Output Power (dBm)	LIMIT (dBm)	LIMIT (W)							
CH36	5180	0.31	17.00	0.0501							
CH40	5200	0.35	17.00	0.0501							
CH44	5220	0.42	17.00	0.0501							
CH48	5240	0.46	17.00	0.0501							

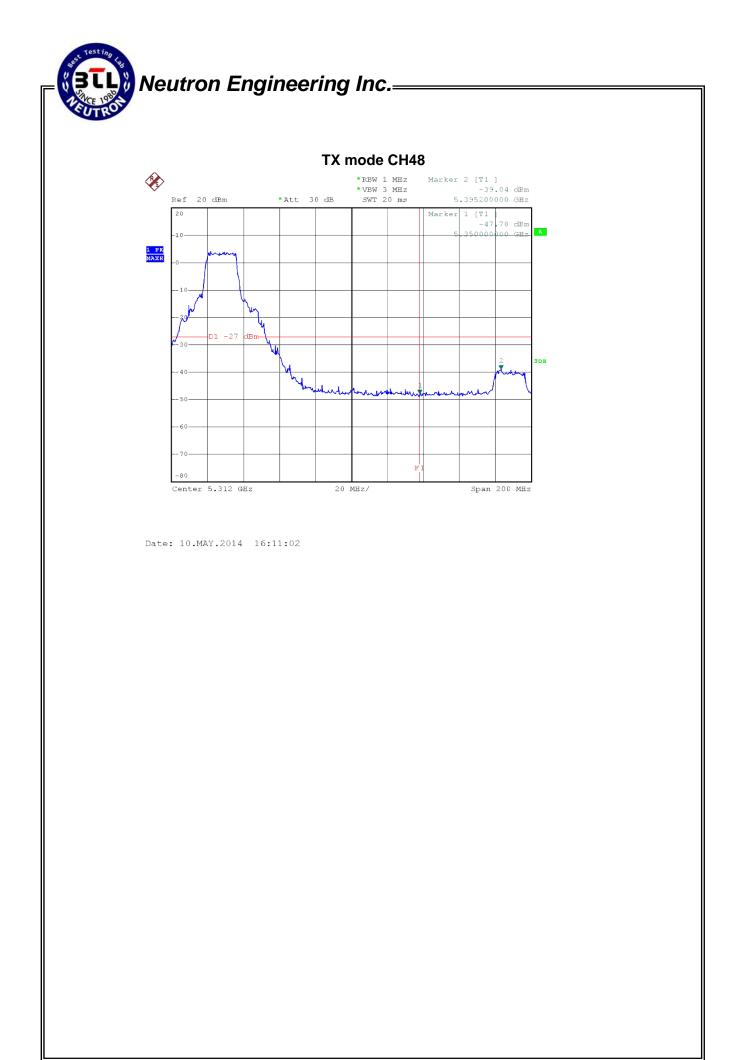
Test Mode :Band 1/TX A Mode

Test Channel	Frequency (MHz)	RSS-210 E.I.R.P Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
		,	(dBiii)	(**)
CH36	5180	3.82	23.00	0.2
CH40	5200	3.86	23.00	0.2
CH44	5220	3.93	23.00	0.2
CH48	5240	3.97	23.00	0.2



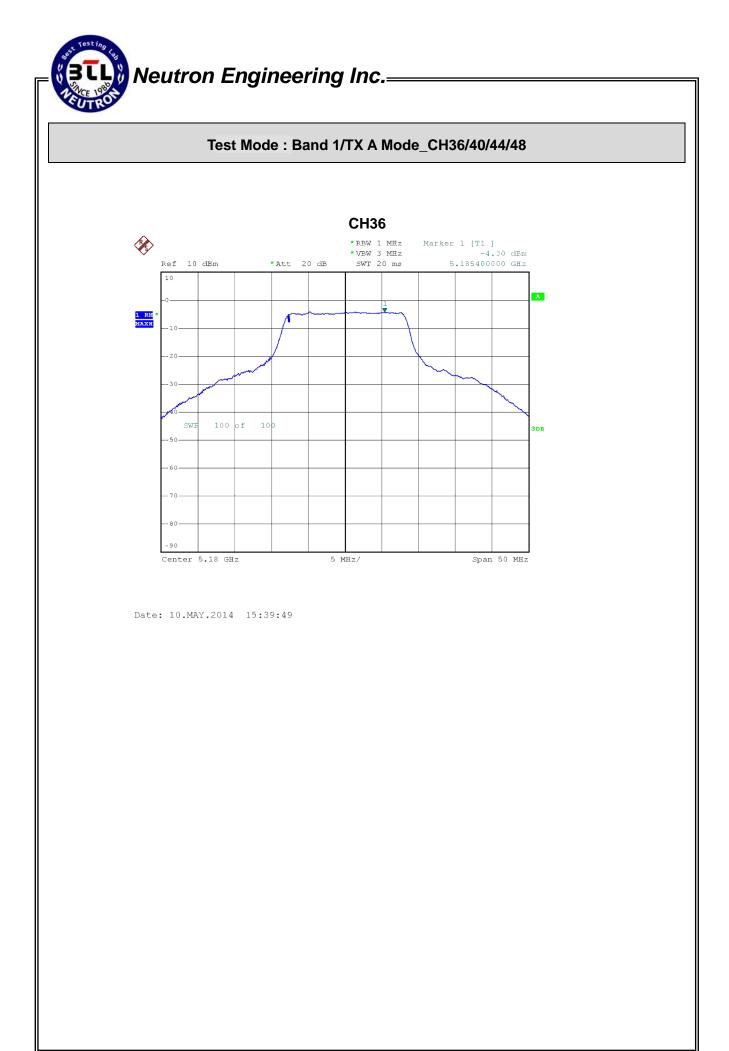
ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

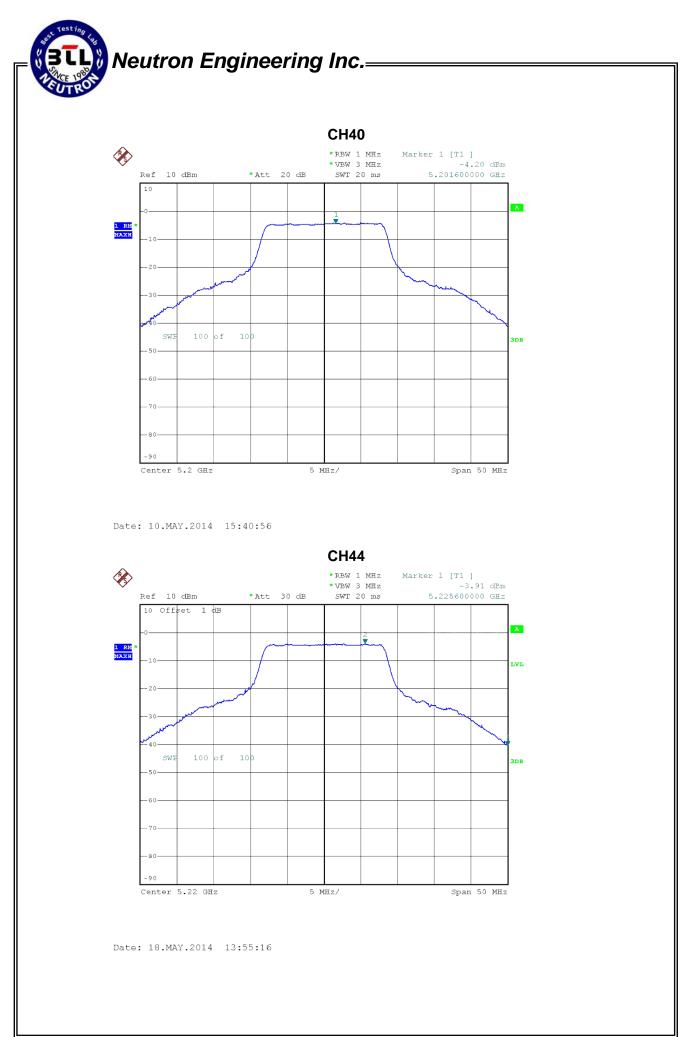


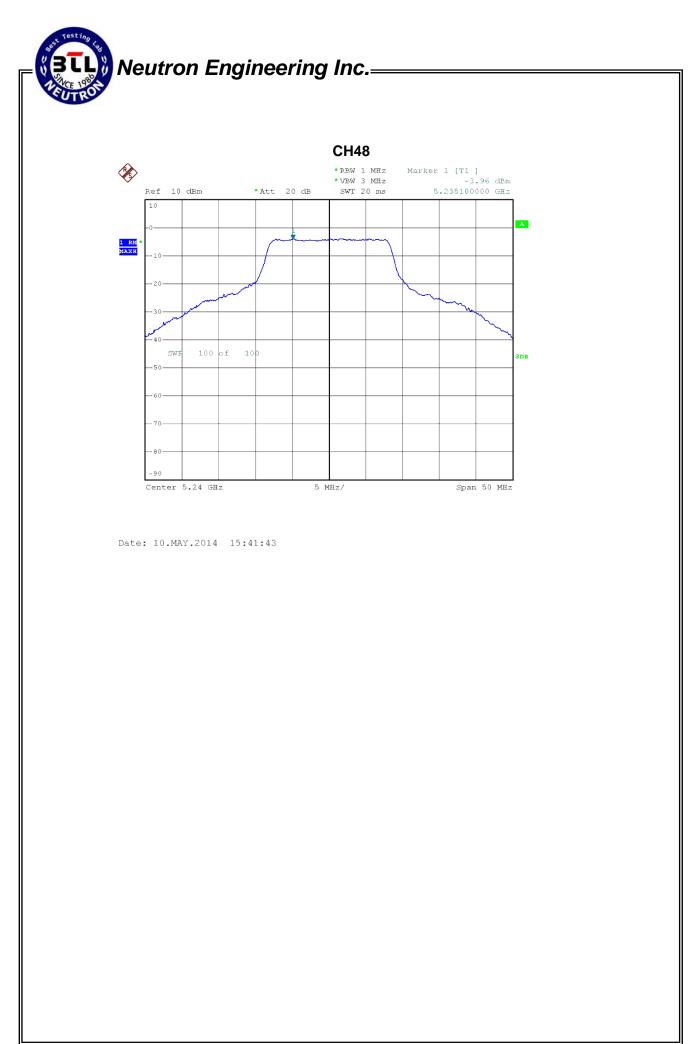




ATTACHMENT H - POWER SPECTRAL DENSITY

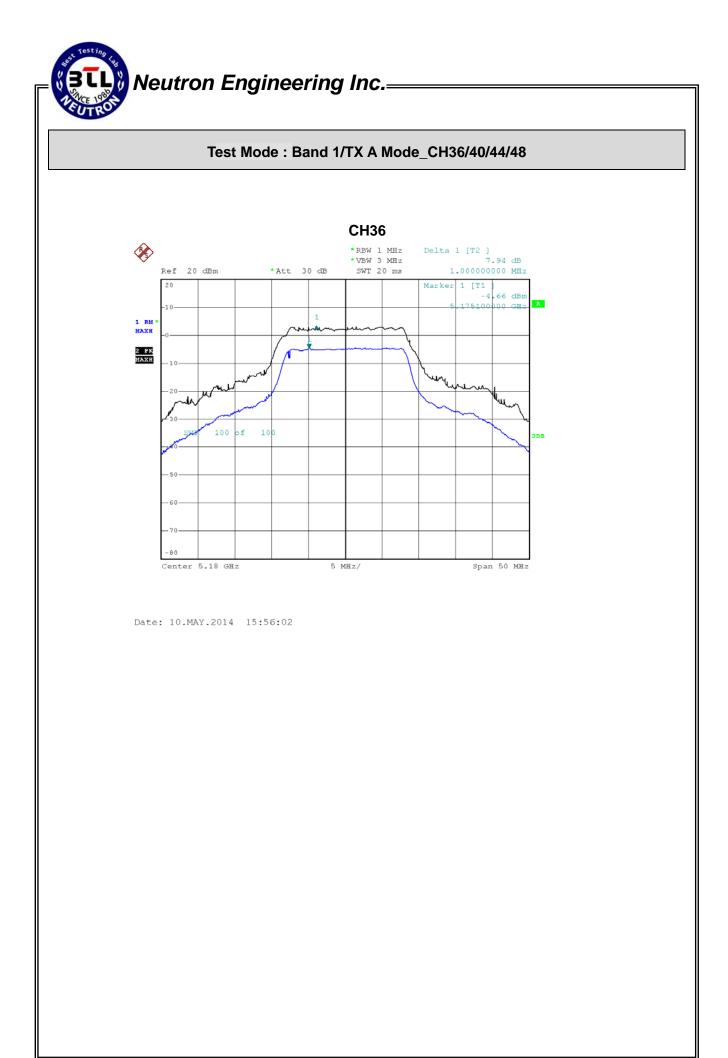


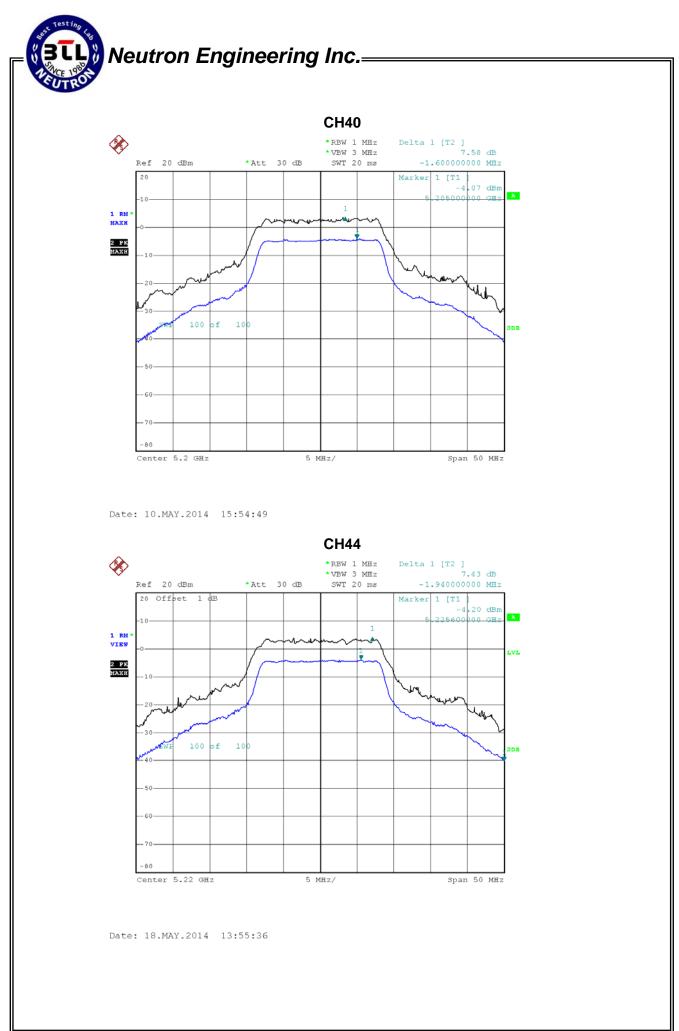




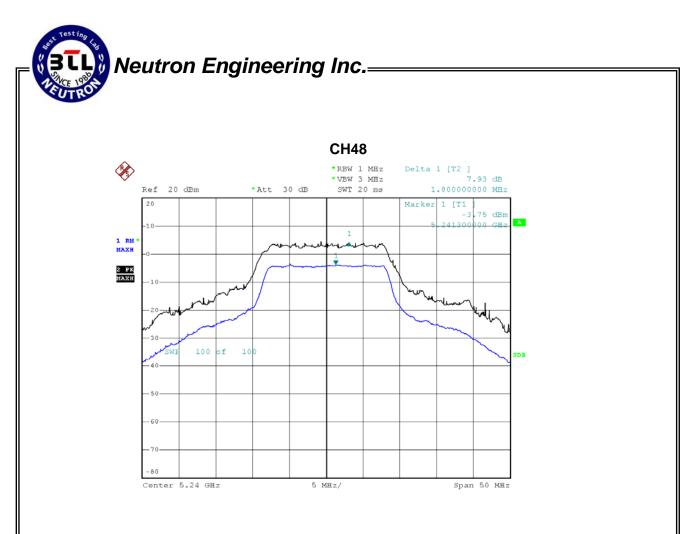


ATTACHMENT I – PEAK EXCURSION





Report No.: NEI-FICP-2-1404C046



Date: 10.MAY.2014 15:52:54



ATTACHMENT J – FREQUENCY STABILITY

Test Mode :

Band 1

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5180
132	5180.000000
120	5179.985000
118	5179.984000
Max. Deviation (MHz)	0.016000
Max. Deviation (ppm)	3.09

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5180
0	5179.986000
10	5179.983000
20	5179.986000
30	5179.982000
40	5179.986000
50	5179.985000
55	5179.985000
Max. Deviation (MHz)	0.018000
Max. Deviation (ppm)	3.47