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Rev: A

FCC/ISED Test Report

Prepared for: TORO Company

Address:

8111 Lyndale Ave S, Bloomington Minnesota, USA

Product:

Nova Gen. 2

Test Report No:

Approved by:

al Lane

R20241011-73-E3

Fox Lane, EMC Test Engineer

DATE:

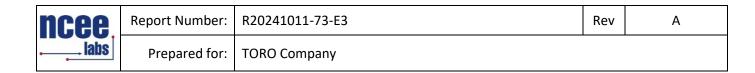
February 5, 2025

Total Pages:

22

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REVISION PAGE

Rev. No. Date		Description
0	4 February 2025	Issued by FLane Prepared by Flane, ESchmidt
A	5 February 2025	Updated Company Name – FL

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1.0 SUMMARY OF TEST RESULTS

The worst-case measurements were reported in this report. Summary of test results presented in this report correspond to the following section:

The EUT has been tested according to the following specifications:

- (1) US Code of Federal Regulations, Title 47, Part 15
- (2) ISED RSS-Gen, Issue 5
- (3) ISED RSS-247, Issue 3

APPLIED STANDARDS AND REGULATIONS					
Standard Section	Test Type	Result			
FCC Part 15.35 RSS Gen, Issue 5, Section 6.10	Duty Cycle	Pass			
FCC Part 15.209 RSS-Gen Issue 5, Section 7.3	Receiver Radiated Emissions	Pass			
FCC Part 15.209 (restricted bands), 15.247 (unrestricted) RSS-247 Issue 3 Section 5.5, RSS-Gen Issue 5, Section 8.9	Transmitter Radiated Emissions	Pass			
FCC Part 15.209, 15.247(d) RSS-247 Issue 3 Section 5.5	Band Edge Measurement	Pass			



2.0 EUT DESCRIPTION

2.1 EQUIPMENT UNDER TEST

Summary and Operating Condition:

EUT	Nova Gen. 2	
IC	3575A-NVG2	
FCC ID	OF7-NVG2	
EUT Received	2 December 2024	
EUT Tested	2 December 2024- 26 December 2024	
Serial No.	324000100	
Operating Band 2400 – 5850 MHz		
Device Type	⊠ GMSK □ GFSK ⊠ BT ⊠ BT EDR 2MB ⊠ BT EDR 3MB ⊠ 802.11x	
Power Supply / Voltage	Powered by 12VDC Marine Battery	

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

2.2 DESCRIPTION OF TEST MODES

The operating range of the EUT is dependent on the device type found in section 2.1:

2EDR/3EDR Transmissions:				
Channel Frequency				
Low	2402 MHz			
Mid	2440 MHz			
High	2480 MHz			

These are the only representative channels tested in the frequency range according to FCC Part 15.31 and RSS-Gen Table A1. See the operational description for a list of all channel frequencies and designations.

2.3 DESCRIPTION OF SUPPORT UNITS

None



3.0 LABORATORY AND GENERAL TEST DESCRIPTION

3.1 LABORATORY DESCRIPTION

All testing was performed at the following Facility:

The Nebraska Center for Excellence in Electron	nics (NCEE Labs)
4740 Discovery Drive	
Lincoln, NE 68521	
A2LA Certificate Number:	1953.01
FCC Accredited Test Site Designation No:	US1060
Industry Canada Test Site Registration No:	4294A
NCC CAB Identification No:	US0177

Environmental conditions varied slightly throughout the tests:

Relative humidity of $35 \pm 4\%$ Temperature of $22 \pm 3^{\circ}$ Celsius



3.2 TEST PERSONNEL

No.	PERSONNEL TITLE		ROLE
1	Fox Lane	Test Engineer	Testing and Report
4	Ethan Schmidt	Test Engineer	Testing and Report

Notes: All personnel are permanent staff members of NCEE Labs. No testing or review was sub-contracted or performed by sub-contracted personnel.



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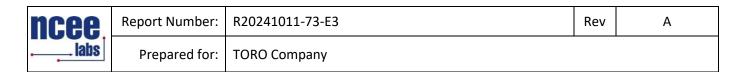
Prepared for: TORO Company

DESCRIPTION AND MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CALIBRATION DATE	CALIBRATION DUE DATE
Keysight MXE Signal Analyzer (44GHz)	N9038A	MY59050109	July 17, 2024	July 18, 2026
Keysight MXE Signal Analyzer (26.5GHz)	N9038A	MY56400083	July 17, 2024	July 18, 2026
Keysight EXA Signal Analyzer	N9010A	MY56070862	July 18, 2023	July 17, 2025
SunAR RF Motion	JB1	A082918-1	July 17, 2024	July 17, 2025
EMCO Horn Antenna	3117	29616	June 12, 2024	June 12, 2025
Com-Power LISN, Single Phase	LI-220C	20070017	July 17, 2023	July 17, 2025
Agilent Preamp*	87405A	3207A01475	May 2, 2024	May 2, 2026
ETS Red Preamplifier (Orange)*	3115-PA	00218576	January 22, 2024	January 22, 2026
Trilithic High Pass Filter*	6HC330	23042	June 5, 2023	June 5, 2025
ETS – Lindgren- VSWR on 10m Chamber	10m Semi- anechoic chamber-VSWR	4740 Discovery Drive	May 15, 2024	May 15, 2027
NCEE Labs-NSA on 10m Chamber*	10m Semi- anechoic chamber-NSA	NCEE-001	May 22, 2024	May 22, 2026
RF Cables (3m Ant. to Control room Bulkhead)	MFR-57500	1E3874	June 5, 2023	June 5, 2025
RF Cable (antenna to 10m chamber bulkhead)*	FSCM 64639	01E3872	June 5, 2023	June 5, 2025
RF Cable (10m chamber bulkhead to control room bulkhead)*	FSCM 64639	01E3874	June 5, 2023	June 5, 2025
RF Cable (control room bulkhead to test receiver)*	FSCM 64639	01F1206	June 5, 2023	June 5, 2025
N connector bulkhead (10m chamber)*	PE9128	NCEEBH1	June 5, 2023	June 5, 2025
N connector bulkhead (control room)*	PE9128	NCEEBH2	June 5, 2023	June 5, 2025
TDK Emissions Lab Software	V11.25	700307	NA	NA

*Internal Characterization

Notes:

All equipment is owned by NCEE Labs and stored permanently at NCEE Labs facilities.



3.4 GENERAL TEST PROCEDURE AND SETUP FOR RADIO MEASUREMNTS

Measurement type presented in this report (Please see the checked box below):

Conducted

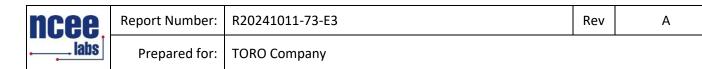
The conducted measurements were performed by connecting the output of the transmitter directly into a spectrum analyzer using an impedance matched cable and connector soldered to the EUT in place of the antenna. The information regarding resolution bandwidth, video bandwidth, span and the detector used can be found in the graphs provided in Appendix C. All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.



Figure 1 - Bandwidth Measurements Test Setup

Radiated ⊠

All the radiated measurements were taken at a distance of 3m from the EUT. The information regarding resolution bandwidth, video bandwidth, span and the detector used can be found in the graphs provided in Appendix C. All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.



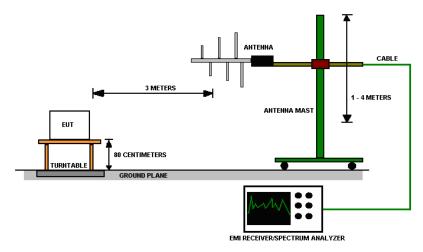


Figure 2 - Radiated Emissions Test Setup, <1GHz

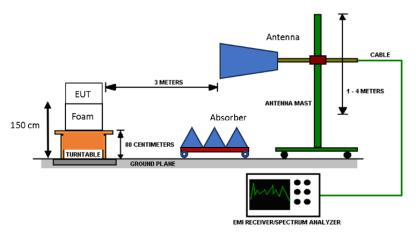


Figure 3 - Radiated Emissions Test Setup, >1GHz

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4.0 RESULTS

	Radiated Peak Restricted Band-Edge									
CHANNEL	Mode	Band edge /Measurement Frequency (MHz)	Highest out of band level (dBuV/m @ 3m)	Measurement Type	Limit (dBuV/m @ 3m)	Margin (dB)	Result			
Low	2EDR	2390	54.200	Peak	73.98	19.78	PASS			
Low	3EDR	2390	54.881	Peak	73.98	19.099	PASS			
High	2EDR	2483.5	54.076	Peak	73.98	19.904	PASS			
High	3EDR	2483.5	54.413	Peak	73.98	19.567	PASS			
*Limit shown	is the peak lim	it taken from FCC Part	15.209							

	Radiated Average Restricted Band-Edge									
СН	Mode	Band edge /Measurement Frequency (MHz)	Raw Avg out of band level (dBuV/m @ 3m)	DCCF	Corrected Highest out of band level (dBuV/m @ 3m)	Detector	Limit (dBuV/m @ 3m)	Margin (dB)	Result	
Low	2EDR	2390	42.627	2.233	44.86	Average	53.98	9.12	PASS	
Low	3EDR	2390	42.537	2.233	44.77	Average	53.98	9.21	PASS	
High	2EDR	2483.5	42.654	2.233	44.887	Average	53.98	9.093	PASS	
High	3EDR	2483.5	42.977	2.233	45.21	Average	53.98	8.77	PASS	
Highes		verage limit taken fr level = Raw peak o			(as per C63.10) Sec. 11.12.	2.5.2)			



4.3 DUTY CYCLE

Keysight Spectrum Analyzer - Swept SA		1			[
arker 3 Δ 3.75000 ms	NFE PNO: Fast IFGain:High	SENSE:INT Trig: Free Run #Atten: 0 dB	ALIGN OFF Avg Type	: Voltage	TRA T)	PM Dec 03, 202 CE 1 2 3 4 5 (PE WWWWW DET P N N N N
0 dB/div Ref -20.00 dBr	'n				ΔMkr3 3	.750 m -0.03 dl
		3	Δ1			
		<u>λ 2Δ1</u>				
0.0 Majimprusum		And the state of the			manaphant	
100						
enter 2.402000000 GHz Res BW (-6dB) 3 MHz	#\	/BW 1.0 MHz		Sweep	9 10.00 ms	Span 0 F (1001 pt
KR MODE TRC SCL >		5 dBm 44.33 dB	FUNCTION WIDTH	FUI	NCTION VALUE	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-0.03 dB				
6 7 8						
9 0 0 1						
						>



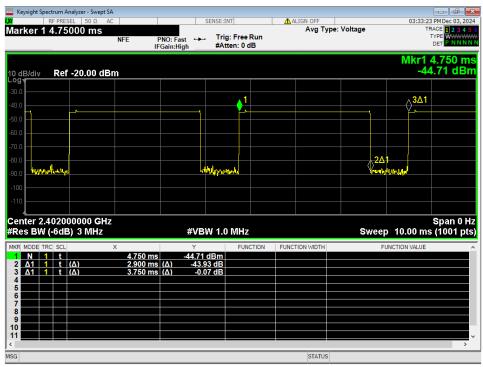


Figure 5 – Duty Cycle 3EDR

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The following duty cycle and duty cycle correction factors (DCCF) were used where applicable.

Duty Cycle = ON Time / Period Duty Cycle correction factor (for emissions) = 20 * log(1 / Duty cycle) Duty Cycle correction factor (for power) = 10*log(1 / Duty Cycle)

Duty Cycle for 2EDR:0.773Duty Cycle correction factor (for emissionDuty Cycle correction factor (for power) f	233dB 117dB
Duty Cycle for 3EDR:0.773Duty Cycle correction factor (for emissionDuty Cycle correction factor (for power) f	233dB 117dB



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4.4 RADIATED EMISSIONS

Test Method:

ANSI C63.10-2013, Section 6.5, 6.6

Limits for radiated emissions measurements:

Emissions radiated outside of the specified bands shall be applied to the limits in 15.209 as followed:

FREQUENCIES (MHz)	FIELD STRENGTH (μV/m)	MEASUREMENT DISTANCE (m)		
0.009-0.490	2400/F(kHz)	300		
0.490-1.705	24000/F(kHz)	30		
1.705-30.0	30	3		
30-88	100	3		
88-216	150	3		
216-960	200	3		
Above 960	500	3		

NOTE:

1. The lower limit shall apply at the transition frequencies.

2. Emission level (dBuV/m) = 20 * log * Emission level (μ V/m).

3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits by more than 20dB under any condition of modulation.

4. The EUT was tested for spurious emissions while running off of battery power and external USB power. The worse-case emissions were produced while running off of USB power, so results from this mode are presented.



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Test procedures:

a. The EUT was placed on the top of a rotating table above the ground plane in a 10 meter semianechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The table was 0.8m high for measurements from 30MHz-1Ghz and 1.5m for measurements from 1GHz and higher.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna was a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are used to make the measurement.

d. For each suspected emission, the EUT was arranged to maximize its emissions and then the antenna height was varied from 1 meter to 4 meters and the rotating table was turned from 0 degrees to 360 degrees to find the maximum emission reading.

e. The test-receiver system was set to use a peak detector with a specified resolution bandwidth. For spectrum analyzer measurements, the composite maximum of several analyzer sweeps was used for final measurements.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. The EUT was maximized in all 3 orthogonal positions. The results are presented for the axis that had the highest emissions.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequencies below 1GHz.

2. The resolution bandwidth 1 MHz for all measurements and at frequencies above 1GHz, A peak detector was used for all measurements above 1GHz. Measurements were made with an EMI Receiver.

Deviations from test standard:

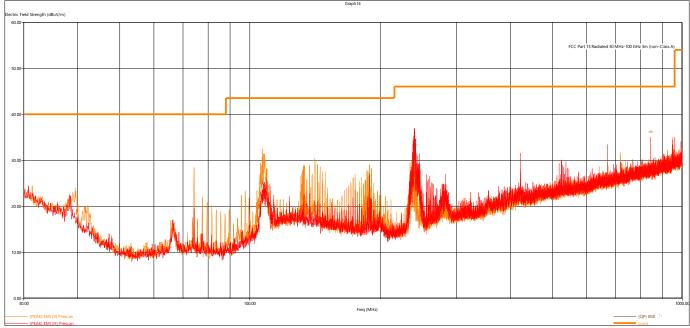
No deviation.

EUT operating conditions

Details can be found in section 2.1 of this report.



Test results:





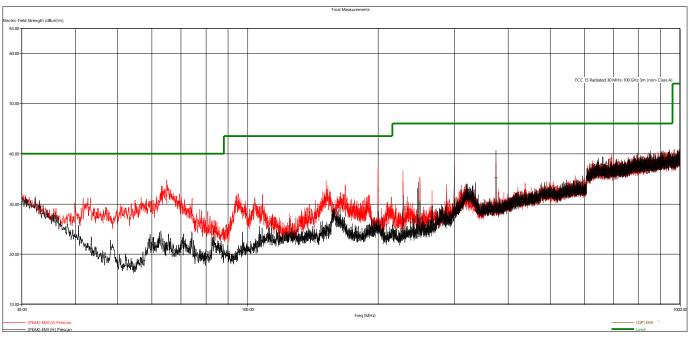
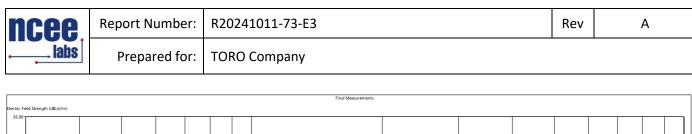
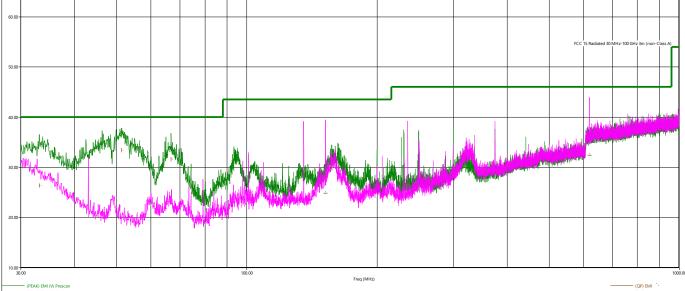


Figure 7 - Radiated Emissions Plot, 2EDR







REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value Emission level

Quasi-Peak Measurements, 30MHz – 1GHz										
Frequency	Level	Limit	Margin	Height	Angle	Pol	Channel	Modulation		
MHz	dBµV/m	dBµV/m	dB	cm.	deg.					
374.988000	35.19	46.02	10.83	119.92	290.75	Н	Low	2EDR		
64.887600	30.38	40.00	9.62	126.25	92.25	V	Low	2EDR		
199.979280	32.62	43.52	10.90	176.58	4.25	V	Low	2EDR		
152.175360	24.77	43.52	18.75	141.23	359.25	Н	Low	3EDR		
619.113360	32.33	46.02	13.69	295.14	133.75	Н	Low	3EDR		
32.875200	26.36	40.00	13.64	126.07	349.75	V	Low	3EDR		
51.372240	33.35	40.00	6.65	103.80	220.50	V	Low	3EDR		
66.697200	31.58	40.00	8.42	110.55	102.00	V	Low	3EDR		

The EUT was maximized in all 3 orthogonal axes. The worst-case is shown in the plot and table above. Intermodulation was investigated with pre-certified module, **FCC ID: R17LE910CXNF**, no emissions above measurement sensitivity were found and were not tabulated.

All measurements above 1GHz were found to be at least 6dB below the applicable limit.



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4.6 BAND EDGES

Test Method:

All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

Limits of band-edge measurements:

For FCC Part 15.247 Device:

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 conducted power limits. If the transmitter complies with the conducted 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 §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.205(c))

Test procedures:

The highest emissions level beyond the band-edge was measured and recorded. All band edge measurements were evaluated to the general limits in Part 15.209. More details can be found in section 3.4 of this report.

Deviations from test standard:

No deviation.

Test setup:

Test setup details can be found in section 3.4 of this report.

EUT operating conditions:

Details can be found in section 2.1 of this report.

Test results:

Pass

Comments:

- 1. All the band edge plots can be found in Appendix C.
- 2. If the device falls under FCC Part 15.247 (Details can be found in summary of test results), compliance is shown in the unrestricted band edges by showing minimum delta of 20 dB between peak and the band edge.
- 3. The restricted band edge compliance is shown by comparing it to the general limit defined in Part 15.209.
- 4. Tabulated data is listed in section 4.0.



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APPENDIX A: SAMPLE CALCULATION

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor, Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF - (-CF + AG) + AV

where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

AG = Amplifier Gain

AV = Averaging Factor (if applicable)

Assume a receiver reading of 55 dB μ V is obtained. The Antenna Factor of 12 and a Cable Factor of 1.1 is added. The Amplifier Gain of 20 dB is subtracted, giving a field strength of 48.1 dB μ V/m.

 $FS = 55 + 12 - (-1.1 + 20) + 0 = 48.1 \text{ dB}\mu\text{V/m}$

The 48.1 dB μ V/m value can be mathematically converted to its corresponding level in μ V/m.

Level in μ V/m = Common Antilogarithm [(48.1 dB μ V/m)/20]= 254.1 μ V/m

AV is calculated by taking the $20*\log(T_{on}/100)$ where T_{on} is the maximum transmission time in any 100ms window.

EIRP Calculations

In cases where direct antenna port measurement is not possible or would be inaccurate, output power is measured in EIRP. The maximum field strength is measured at a specified distance and the EIRP is calculated using the following equation;

EIRP (Watts) = [Field Strength (V/m) x antenna distance (m)]² / 30 Power (watts) = 10^[Power (dBm)/10] / 1000 Voltage (dB μ V) = Power (dBm) + 107 (for 50 Ω measurement systems) Field Strength (V/m) = 10^[Field Strength (dB μ V/m) / 20] / 10^6 Gain = 1 (numeric gain for isotropic radiator) Conversion from 3m field strength to EIRP (d=3): EIRP = [FS(V/m) x d^2]/30 = FS [0.3] for d = 3 EIRP(dBm) = FS(dB μ V/m) - 10(log 10^9) + 10log[0.3] = FS(dB μ V/m) - 95.23 10log(10^9) is the conversion from micro to milli



APPENDIX B – MEASUREMENT UNCERTAINTY

NCEE Labs does not add uncertainty levels to measurement levels Where relevant, the following measurement uncertainty levels have been for tests performed in this test report:

Test	Frequency Range	Uncertainty Value (dB)
Radiated Emissions, 3m	30MHz – 1GHz	±4.31
Radiated Emissions, 3m	1GHz – 18GHz	±5.08
Emissions limits, conducted	30MHz – 18GHz	±3.03

Expanded uncertainty values are calculated to a confidence level of 95%.



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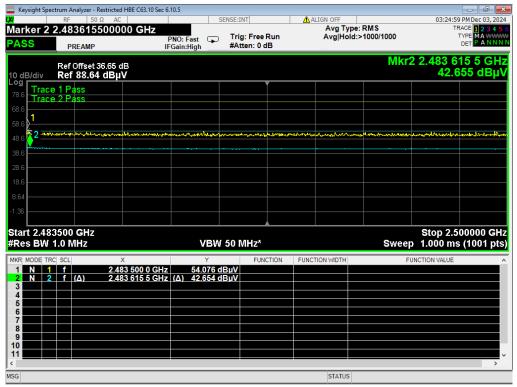
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APPENDIX C – GRAPHS AND TABLES

	sight Spe			cted LBE using C63.1	0 Sec 6.10.5							
<mark>IXI</mark> Marl	cor 2	RF		AC 0000 GHz		SENS	SE:INT			:RMS		ACE 1 2 3 4 5 6
PAS			REAMP		PNO: Fast IFGain:High		Trig: Free #Atten: 0 d			:>1000/1000		
Ref Offset 37.51 dB Mkr2 2.389 75 GHz												
10 dE	3/div		6 89.50 dl								42.6	25 dBμV
Log 79.5		e 1 P						[
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3												
5												
6 7												
8												
10												
<												>
MSG									STATUS			

01 LBE Restricted, 2EDR pwr8



02 HBE Restricted, 2EDR pwr8

The Nebraska Center for Excellence in Electronics
4740 Discovery Drive
Lincoln, NE 68521

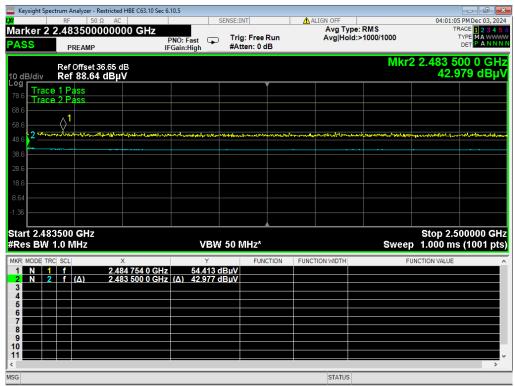
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	ectrum Analyzer - Kes	tricted LBE using C63.10	Sec 6.10.5					
	RF 50 Ω			NSE:INT	ALIGN OFF			PM Dec 03, 20
arker 1	2.38945000	00000 GHz			Avg Typ			ACE 1 2 3 4
ASS			PNO: Fast 😱	Trig: Free Run	Avg Hold	l:>1000/1000	1	
455	PREAMP	IF	Gain:High	#Atten: 0 dB				DEI
	D. 6 0 7 1 0 7	54.45				M	kr1 2.38	9 45 GI
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	30000 GHz							
	30000 GHz 1.0 MHz		#VBW	50 MHz*		Sweep	1.000 ms	(1001 p
Res BW	1.0 MHz	X	Y	FUNCTION	FUNCTION WIDTH		1.000 ms	(1001 p
		2.389 45 GHz	 54.881 d⊟		FUNCTION WIDTH		1.000 ms	(1001 p
R MODE TF			 54.881 d⊟		FUNCTION WIDTH		1.000 ms	(1001 p
R MODE TR		2.389 45 GHz	 54.881 d⊟		FUNCTION WIDTH		1.000 ms	(1001 p
Res BW		2.389 45 GHz	 54.881 d⊟		FUNCTION WIDTH		1.000 ms	(1001 p
R MODE TR		2.389 45 GHz	 54.881 d⊟		FUNCTION WIDTH		1.000 ms	(1001 p
Res BW IR MODE TF 1 N 1 2 N 2 3		2.389 45 GHz	 54.881 d⊟		FUNCTION WIDTH		1.000 ms	(1001 p
Res BW IR MODE TF I N 1 2 N 2 3		2.389 45 GHz	 54.881 d⊟		FUNCTION WIDTH		1.000 ms	: (1001 p
Res BW R MODE TF 1 N 1 2 N 2 3		2.389 45 GHz	 54.881 d⊟		FUNCTION WIDTH		1.000 ms	: (1001 p
R MODE TR N MODE TR N 1 N 2 N 2 N 2 N 2 N 3 N 3 N 3 N 3 N 3 N 3 N 3 N 3		2.389 45 GHz	 54.881 d⊟		FUNCTION WIDTH		1.000 ms	: (1001 p
Res BW R Mode TR N 1 2 N 2 3 4 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		2.389 45 GHz	 54.881 d⊟		FUNCTION WIDTH		1.000 ms	(1001 p





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ncee.	Report Number:	R20241011-73-E3	Rev	А
labs	Prepared for:	TORO Company		

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