





Test Report - FCC PART 90 Applicant: Navico Inc.

Approved for Release By:

Signature: _	Bruno Chaver
Name & Title:	Bruno Clavier, General Manager
Date of Signature	6/8/2022

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1. Customer Information

Applicant: Navico Inc.

Address: 4500 S. 129th East Avenue

Suite 200

Tulsa, Ok.,74134-5885, United States

1.1 Part 90 Test Result Summary

The following test procedure and guidance were used for measuring FCC PART 90 (PRIVATE LAND MOBILE RADIO SERVICES) known as Licensed Land Mobile; ANSI C63.26-2015. Full test results are available in this report.

Applicable Clauses from Part 2			
FCC Clauses	Description of the requirements	Result: (Pass, Fail, N/A)	
2.202	Bandwidth & Emission	Pass	
2.1033 (c)(8)	Power at the Final Amplifier	Reported	
2.1046 (a)	RF Output Power	Pass	
2.1047	Modulation characteristics	n/a	
2.1049	Occupied Bandwidth	Pass	
2.1051	Spurious emissions at antenna terminals	Pass	
2.1053	Field strength of spurious radiation	Pass	
2.1055	Frequency stability	Pass	

Applicable Clauses from Part 90			
FCC Clauses	Description of the requirements	Result: (Pass, Fail, N/A)	
90.205 (r)	Transmitter Power	Pass	
90.207 (n)	Emission designator	Reported	
90.209 (b) (5) footnote 2	Bandwidth limitations	Pass	
90.210 (n)	Emission masks, In-band	Pass	
90.210 (n)	Emission masks, Out-of-band	Pass	
90.213 (a) footnote 10	Frequency stability	Pass	
90.214	Transient Frequency Behavior	n/a	
90.221	Adjacent channel power limits	n/a	

No additions to the test methods were needed. There were no deviations, or exclusions from the test methods. No test results are from external providers or from the customer. The test results relate only to the items tested. Timco does not offer opinions and interpretations, only a pass/fail statement.

2. Location of Testing

2.1 Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at Timco's permanent laboratory located at 849 NW State Road 45, Newberry, Florida 32669

FCC test firm # 578780
FCC Designation # US1070
FCC site registration is under A2LA certificate # 0955.01
ISED Canada test site registration # 2056A
EU Notified Body # 1177
For all designations see A2LA scope # 0955.01

2.1 Testing was performed, reviewed by

Dates of Testing: 10/29/2021 - 11/18/2021

Signature:	Sr. EMC Engineer EMC-003838-NE	
Name & Title:	Tim Royer, EMC Engineer	
Date of Signature	6/8/2022	
Signature:	LH CL	
Name & Title:	Kristoffer Costa, EMC Technician	
Date of Signature	6/8/2022	

3. Test Sample(s) (EUT/DUT)

The test sample was received: 10/29/2021

3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

Identification	
FCC ID:	RAYHALO2000
Brief Description	SIMRAD HALO 2000 SERIES Pulse Compression Radar
Model(s) #	HALO 2000 SERIES
Firmware version	8.1.99.91
Software version	8.1.99.91
Serial Number	2106950004

Technical Characteristics		
Technology	Pulse Compression Radar	
Frequency Range	9.3 GHz-9.5 GHz	
RF O/P Power (Max.)	50W	
Modulation	Pulse/ FM Chirp	
Bandwidth & Emission Class	PON	
Antenna Connector	WR90	
Voltage Rating (AC or Batt.)	12V DC	

Antenna Characteristics			
Antenna	Frequency Range	Mode / BW	Antenna Gain
1	9.39-9.50GHz	3 ft	26 dBi
	9.39-9.50GHz	4 ft	27.2 dBi
	9.39-9.50GHz	6 ft	29 dBi

3.2 Configuration of EUT

Test Modes				
Mode (#)	Mode (Type)	Test Frequencies (MHz)	BW (nominal) (MHz)	Emission Designator
		9390 9408		
1	Transmit	9452	100.16	PON
		9476		
		9496		

^{*} Standard operating mode was considered worst case as compared to Bird Mode.

Operating conditions during Testing:

The device was operated without the provided antenna(s).

No other modifications of the device under test (including firmware, specific software settings, and input/output signal levels to the EUT) were made.

Peripherals used during Testing:

A laptop was used to program the EUT.

3.3 Test Setup of EUT

Equipment, antenna, and cable arrangement. The setup of the equipment and cable or wire placement on the test site that produces the highest radiated and the highest ac power line conducted emissions shall be shown clearly and described. Information on the orientation of portable equipment during testing shall be included. Drawings or photographs may be used for this purpose.

Test Setups are included in the test report.

4. Test methods & Applicable Regulatory Limits

4.1 Test methods/Standards/Guidance:

Test procedures and guidance for measuring Licensed Part 90 Licensed device:

1) ANSI C63.26-2015

4.2 Applied Limits and Regulatory Limits:

1) FCC CFR 47 Part 90

5. Measurement Uncertainty

Parameter	Uncertainty (dB)
Conducted Emissions	± 3.14 dB
Radiated Emissions (9kHz – 30 MHz)	± 3.08 dB
Radiated Emissions (30 – 200 MHz)	± 2.16 dB
Radiated Emissions (200 – 1000 MHz)	± 2.15 dB
Radiated Emissions (1 GHz – 18 GHz)	± 2.14 dB
Radiated Emissions (18 GHz – 40 GHz)	± 2.31 dB

Note: The uncertainties provided in this table represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of K=2.

6. Environmental Conditions

6.1 Temperature & Humidity

Measurements performed at the test site did not exceed the following:

The state of the s		
Parameter	Measurement	
Temperature	23 C +/- 5%	
Humidity	55% +/- 5%	
Barometric Pressure 30.05 in Hg		
Note: Specific environmental conditions that are applicable to a specific test are available in the test result		

Note: Specific environmental conditions that are applicable to a specific test are available in the test result section.



7. List of Test Equipment and Test Facility

The test equipment used identified by type, manufacturer, serial number, or other identification and the date on which the next calibration or service check is due.

Description of the firmware or software used to operate EUT for testing purposes.

A complete list of all test equipment used shall be included with the test report. The manufacturer's model and serial numbers, and date of last calibration, and calibration interval shall be included. Measurement cable loss, measuring instrument bandwidth and detector function, video bandwidth, if appropriate, and antenna factors shall also be included where applicable.

7.1 List of Test Equipment

Test Equipment						
Type	Device	Manufacturer	Model	SN#	Current Cal	Cal Due
Antenna, NSA	Log-Periodic 1243	Eaton	96005	1243	5/4/21	5/3/2024
Antenna	Double-Ridged Horn/ETS Horn 1	ETS-Lindgren	3117	00035923	2/25/20	2/24/2023
CHAMBER	CHAMBER	Panashield	3M	N/A	3/12/19	3/11/2022
Pre-amp	Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	2/27/19	2/26/2022
Receiver	EMI Test Receiver R&S ESU 40	Rohde & Schwarz	ESU 40	100320	5/27/21	5/26/2024
Function Generator	Function Generator	Standford	DS340	25200	1/13/21	1/13/2024
Thermometer	Type K J Thermometer	Martel	303	080504494	1/18/20	1/17/2023
Signal Generator	Signal Generator HP 8648C	HP	8648C	3847A04696	3/31/21	3/30/2024
Antenna	Biconical 1057	Eaton	94455-1	1057	10/16/20	10/16/2023

Software					
Software	Software Author		Validation on		
ESU Firmware	Rohde & Schwarz	4.43 SP3; BIOS v5.1-24-3	2018		
RSCommander	Rohde & Schwarz	1.6.4	2014		
ScopeExplorer	LeCroy	v2.25.0.0	2009		
Field Strength	Timco	v4.10.7.0	2016		

8. Test Results

The results of the test are usually indicated in the form of tables, spectrum analyzer plots, charts, sample calculations, as appropriate for each test procedure.

A description and/or a block diagram of the test setup is usually provided.

The measurement results, along with the appropriate limits for comparison, may be presented in tabular or graphical form. In addition, any variation in the measurement environment may be reported if applicable (e.g., a significant change of temperature that could affect the cable loss and amplifier response).

Units of measurement

Unless noted otherwise in the referenced standard, the measurements of ac power-line conducted emissions and conducted power output will be reported in units of dB μ V. Unless noted otherwise in the referenced standard, the measurements of radiated emissions will be reported in units of decibels, referenced to one microvolt per meter (dB μ V/m) for electric fields, or to one ampere per meter (dBA/m) for magnetic fields, at the distance specified in the appropriate standards or requirements. The measurements of antenna-conducted power for receivers may be reported in units of dB μ V if the impedance of the measuring instrument is also reported. Otherwise, antenna-conducted power will be reported in units of decibels referenced to one milliwatt (dBm). All formulas for data conversions and conversion factors, if used, will be included in this measurement report.

Example:

Freq (MHz) Meter Reading + ACF +CL = FS
33 20 dB
$$\mu$$
V + 10.36 dB/m +0.40 dB = 30.36 dB μ V/m @ 3m

EIRP = Pcond (dBm) + dBi

8.1 Power at the Final Amplifier

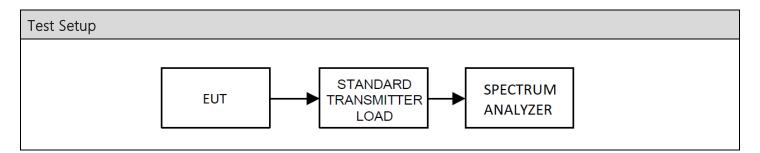
Limits from FCC Part 2.1033 (c)(8). No method of measurement is specified.

Test Results					
EUT Operating Voltage (V)	EUT Current (A)	Power at the Final Amplifier (W)			
12	4.17	50W			



8.2 RF Output Power

Limits from FCC Parts 2.1046(a), and 90.205 (r); and test procedure from ANSI C63.26-2015.



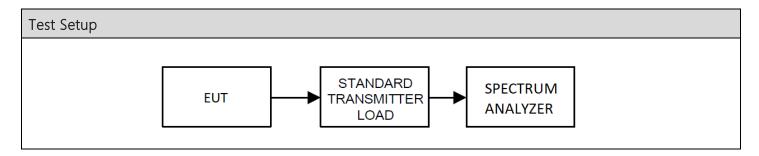
Mode	Center Freq (MHz)	Duty Cycle (%)	Mesured Output (dBm)	Loss (dBm)	Mean Power (dBm)	Mean Power (W)	Peak Power (W)
64 nm	9390.00	6.84%	-9.180	42.600	33.420	2.198	32.132
0.125 nm	9390.00	0.01%	-35.120	42.600	7.480	0.006	55.976
1.5 nm	9390.00	2.41%	-12.400	42.600	30.200	1.047	43.449
6 nm	9390.00	9.69%	-6.900	42.600	35.700	3.715	38.342
0.5 nm	9434.00	0.49%	-17.300	42.600	25.300	0.339	69.152
2nm	9434.00	6.25%	-9.700	42.600	32.900	1.950	31.198
0.75 nm	9452.00	2.41%	-12.200	42.600	30.400	1.096	45.497
4nm	9476.00	9.69%	-7.140	42.600	35.460	3.516	36.281
12 nm	9496.00	9.81%	-7.300	42.600	35.300	3.388	34.541

Note: The mean power was calculated based on formula:

Pa = Pm*DC

8.3 Bandwidth & Emission

Limits from FCC Parts 2.1049, and 90.207 & 90.209, and test procedure from ANSI C63.26-2015.



Test Results, Authorized Bandwidth					
Rule Part	Operating Range (MHz)	Authorized Bandwidth (kHz)			
Part 90	9.3 GHz-9.5 GHz	200 MHz			

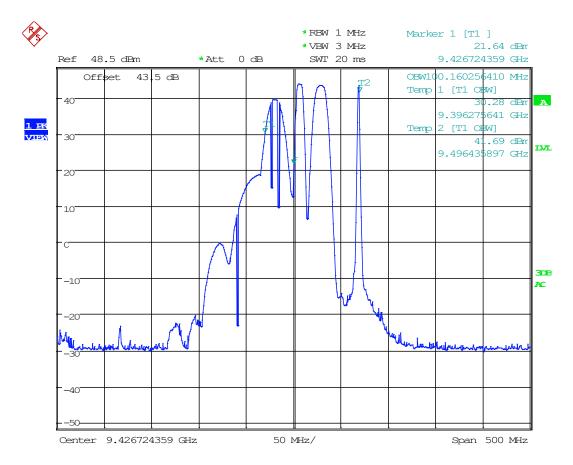


Test Results, Occupied Bandwidth						
Mode	Tuned Frequency (MHz)	Emission Designator	Occupied Bandwidth (MHz)	Bandwidth Type		
1	9390, 64 nm	PON	100.16	99%		
1	9390, 0.125 nm	PON	67.30	99%		
1	9390, 1.5 nm	PON	68.75	99%		
1	9390, 6 nm	PON	88.46	99%		
1	9434, 0.5 nm	PON	35.81	99%		
1	9434, 2 nm	PON	67.30	99%		
1	9452, 0.75 nm	PON	68.75	99%		
1	9476, 4 nm	PON	88.94	99%		
1	9496, 12 nm	PON	96.15	99%		



Occupied Bandwidth, Spectrum Plots

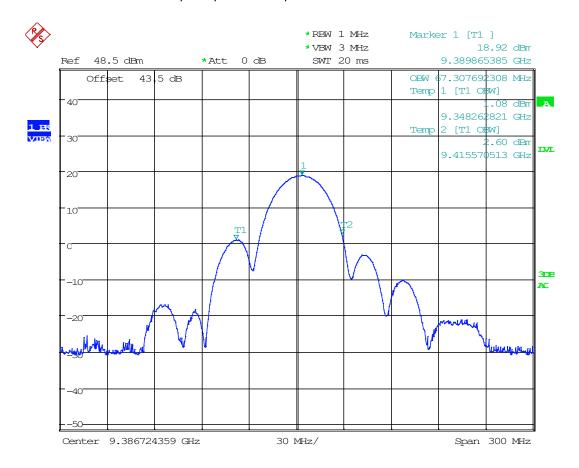
8.3.1 Bandwidth Plot, 99%, 9390 MHz, 64 nm



Date: 14.DEC.2021 12:11:32



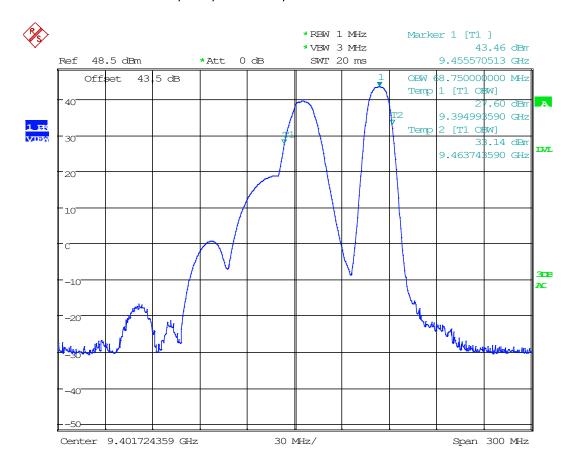
8.3.2 Bandwidth Plot, 99%, 9390 MHz, 0.125 nm



Date: 14.DEC.2021 12:15:17



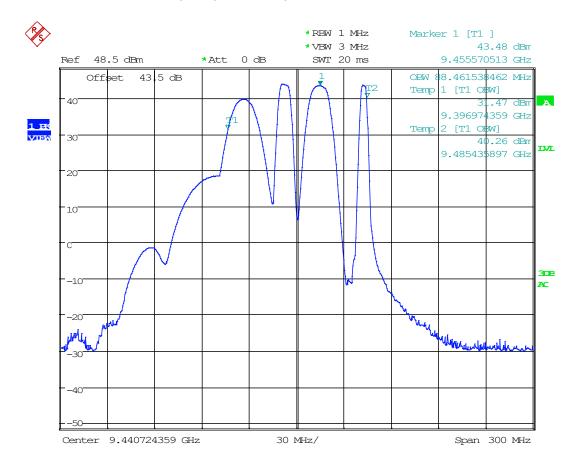
8.3.3 Bandwidth Plot, 99%, 9390 MHz, 1.5 nm



Date: 14.DEC.2021 12:17:05



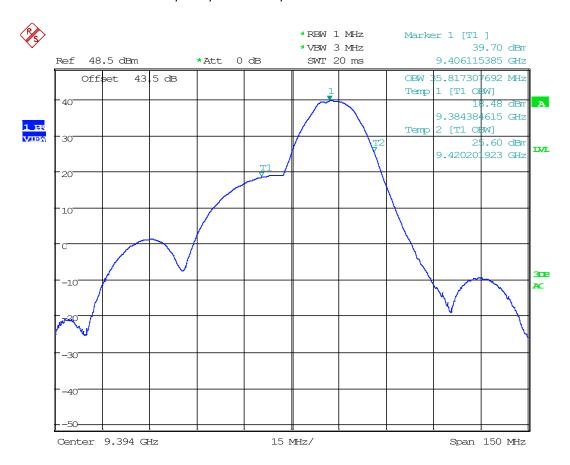
8.3.4 Bandwidth Plot, 99%, 9390 MHz, 6 nm



Date: 14.DEC.2021 12:17:53



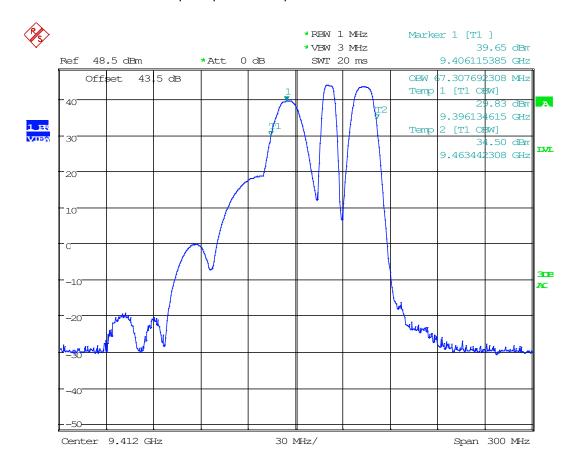
8.3.5 Bandwidth Plot, 99%, 9434 MHz, 0.5 nm



Date: 14.DEC.2021 12:20:29



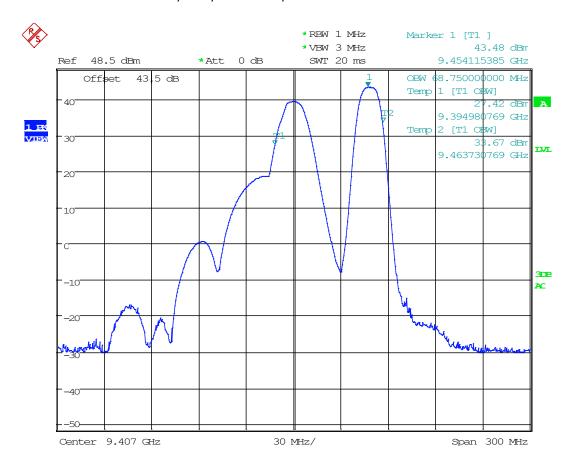
8.3.6 Bandwidth Plot, 99%, 9434 MHz, 2 nm



Date: 14.DEC.2021 12:21:31



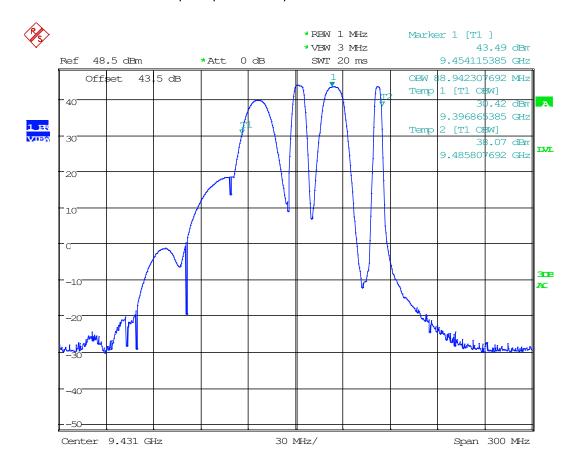
8.3.7 Bandwidth Plot, 99%, 9452 MHz, 0.75 nm



Date: 14.DEC.2021 12:23:27



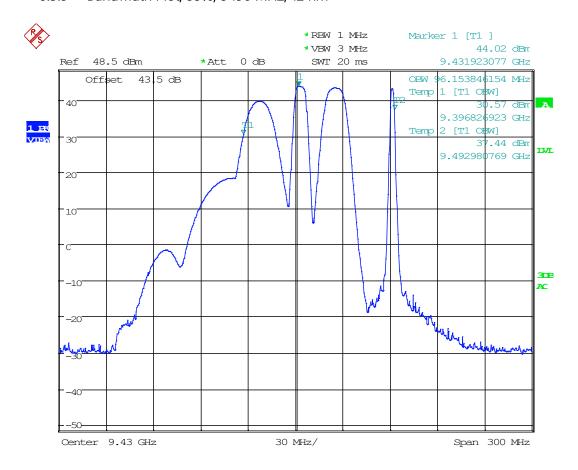
8.3.8 Bandwidth Plot, 99%, 9476 MHz, 4 nm



Date: 14.DEC.2021 12:24:20



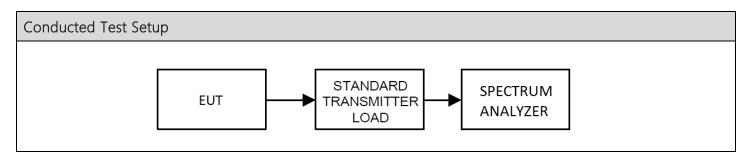
8.3.9 Bandwidth Plot, 99%, 9496 MHz, 12 nm



Date: 14.DEC.2021 12:27:30

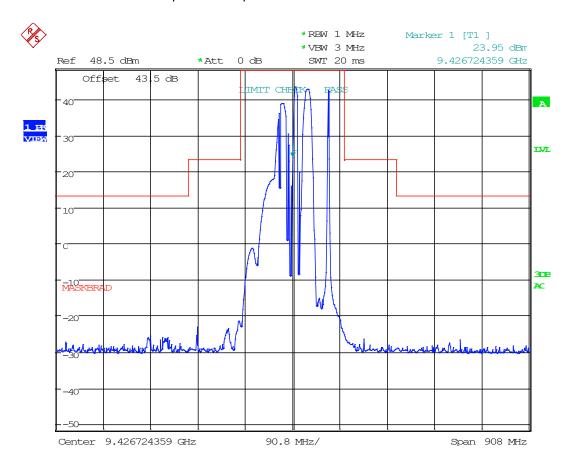
8.4 Emission Limitations, In-Band

Limits from FCC Part 90.210; and test procedure from ANSI C63.26-2015.





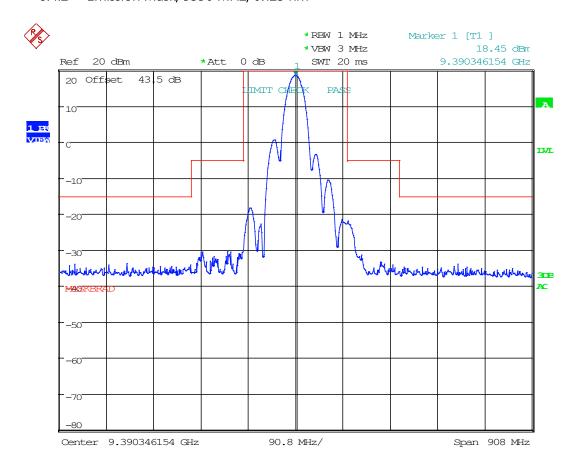
8.4.1 Emission Mask, 9390 MHz, 64 nm



Date: 14.DEC.2021 12:10:18



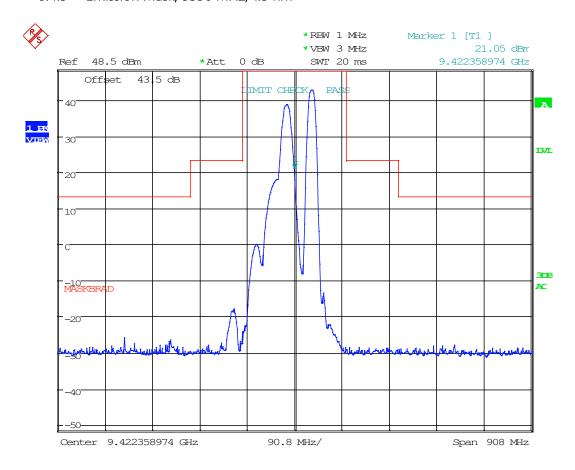
8.4.2 Emission Mask, 9390 MHz, 0.125 nm



Date: 14.DEC.2021 12:09:13



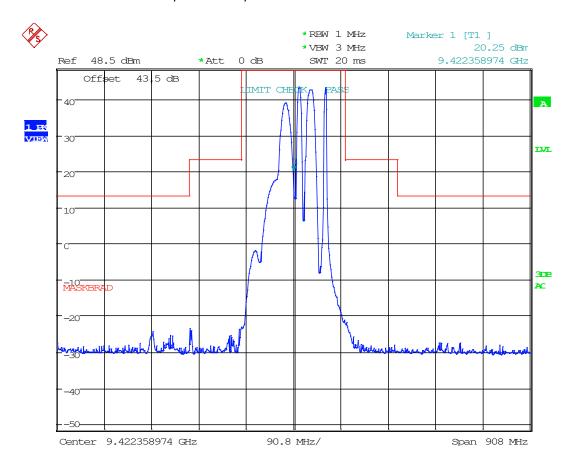
8.4.3 Emission Mask, 9390 MHz, 1.5 nm



Date: 14.DEC.2021 12:08:33



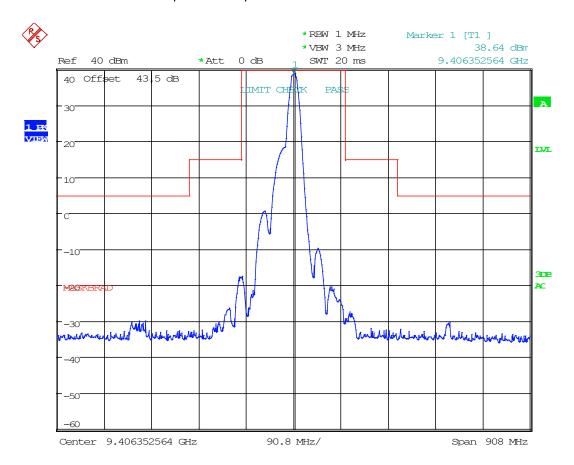
8.4.4 Emission Mask, 9390 MHz, 6 nm



Date: 14.DEC.2021 12:08:00



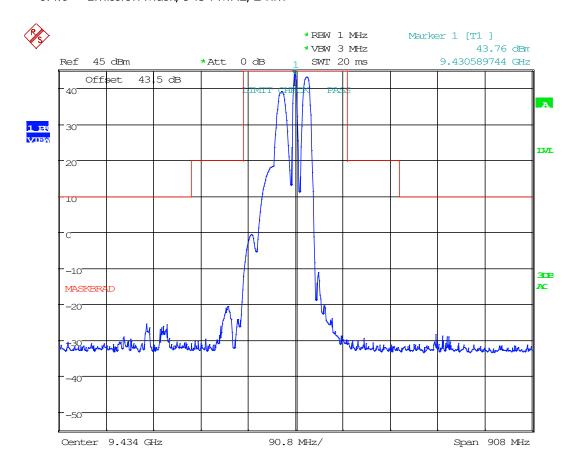
8.4.5 Emission Mask, 9434 MHz, 0.5 nm



Date: 14.DEC.2021 12:07:10



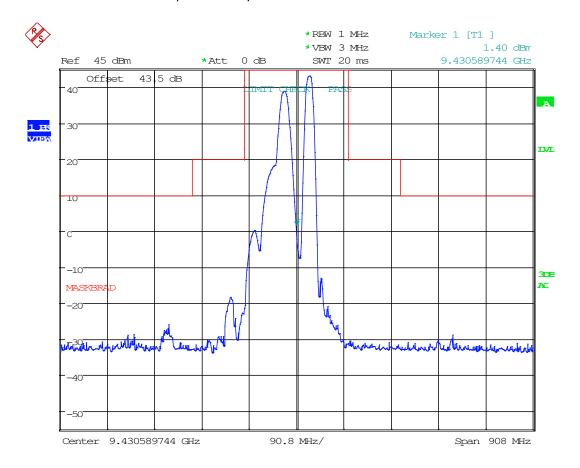
8.4.6 Emission Mask, 9434 MHz, 2 nm



Date: 14.DEC.2021 12:06:30



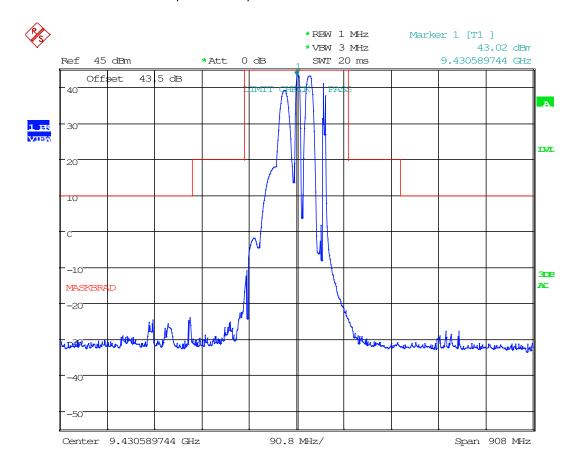
8.4.7 Emission Mask, 9452 MHz, 0.75 nm



Date: 14.DEC.2021 12:05:46



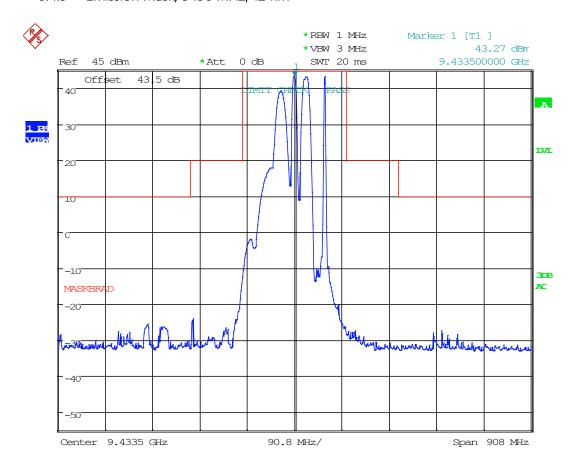
8.4.8 Emission Mask, 9476 MHz, 4 nm



Date: 14.DEC.2021 12:05:07



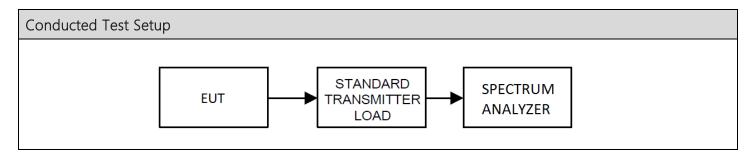
8.4.9 Emission Mask, 9496 MHz, 12 nm



Date: 14.DEC.2021 12:04:00

8.5 Emission Limitations, Out-of-Band

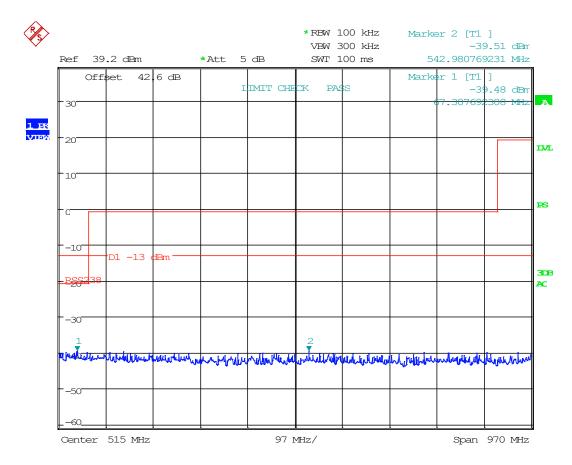
Limits from FCC Parts 2.1051, and 90.210; and test procedure from ANSI C63.26-2015.





Conducted Emissions Spectrum Plots

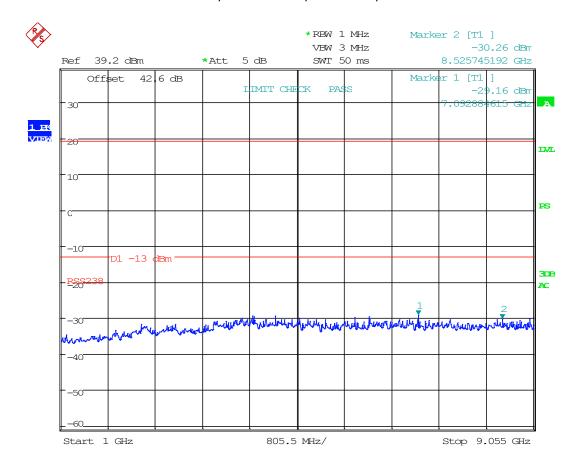
8.5.1 Conducted Emissions, Below 1 GHz, 9390 MHz, 64 nm



Date: 15.NOV.2021 10:24:07



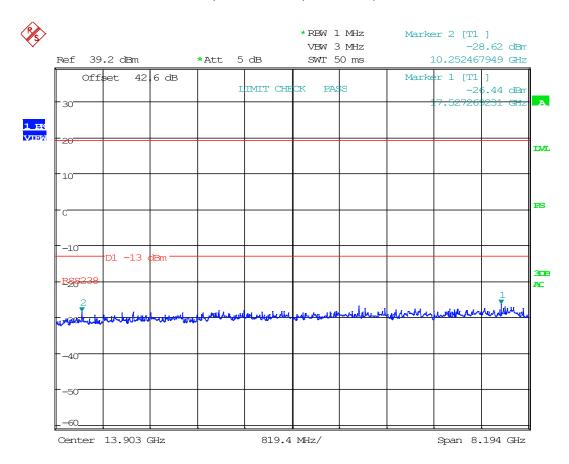
8.5.2 Conducted Emissions, Above 1 GHz, 9390 MHz, 64 nm



Date: 15.NOV.2021 10:40:27

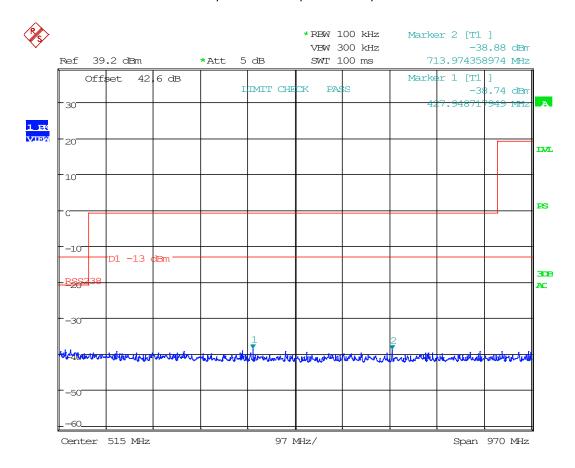


8.5.3 Conducted Emissions, Above 9 GHz, 9390 MHz, 64 nm



Date: 15.NOV.2021 10:38:59

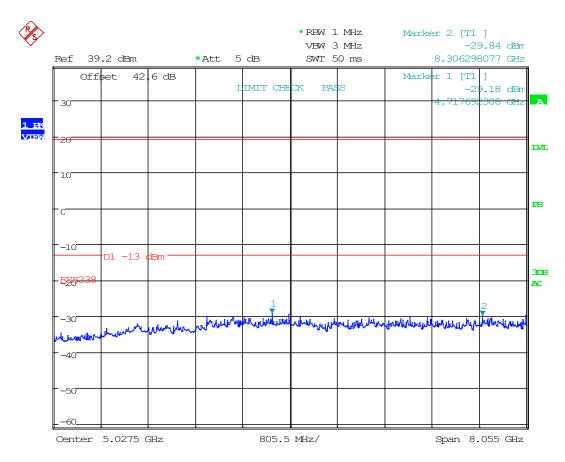
8.5.4 Conducted Emissions, Below 1 GHz, 9496 MHz, 12 nm



Date: 15.NOV.2021 10:13:30



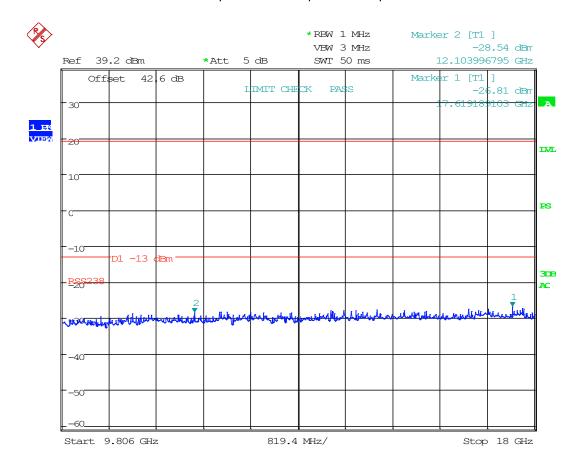
8.5.5 Conducted Emissions, Above 1 GHz, 9496 MHz, 12 nm



Date: 15.NOV.2021 10:41:18



8.5.6 Conducted Emissions, Above 9 GHz, 9496 MHz, 12 nm

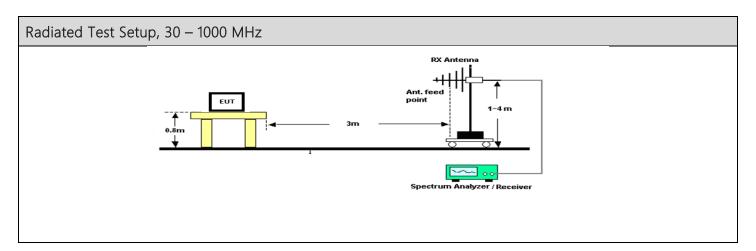


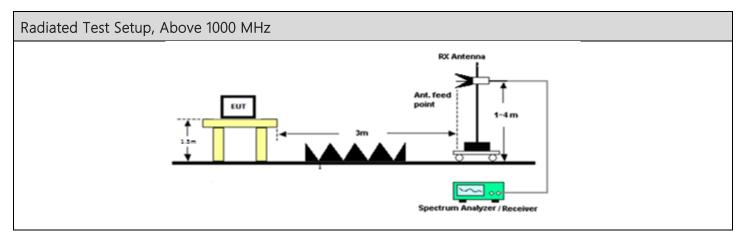
Date: 15.NOV.2021 10:37:56



8.6 Radiated Emissions

Limits from FCC Parts 2.1053, 80.211 (f), 87.139 (a), and 90.210 (n); and test procedure from ANSI C63.26-2015.





Radiated Emissions, Tabular Data

8.6.1 Radiated Emissions, 9390 MHz

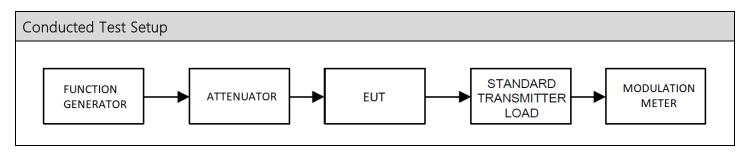
Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBµV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
9390.00	18780.00	PK	4.93	Н	15.49	44.74	3.00	65.17	-32.21	-13.00	19.21
9390.00	18780.00	PK	4.16	V	15.49	44.74	3.00	64.40	-32.98	-13.00	19.98
9390.00	28170.00	PK	8.92	Н	18.84	46.84	3.00	74.60	-22.78	-13.00	9.78
9390.00	28170.00	PK	9.40	V	18.84	46.84	3.00	75.08	-22.30	-13.00	9.30
9390.00	37560.00	PK	10.90	Н	22.20	45.76	3.00	78.86	-18.52	-13.00	5.52
9390.00	37560.00	PK	10.30	V	22.20	45.76	3.00	78.26	-19.12	-13.00	6.12

8.6.2 Radiated Emissions, 9496 MHz

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBµV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
9496.00	18992.00	PK	4.32	Н	15.53	44.74	3.00	64.59	-32.78	-13.00	19.78
9496.00	18992.00	PK	4.34	V	15.53	44.74	3.00	64.61	-32.76	-13.00	19.76
9496.00	28488.00	PK	7.84	Н	19.20	46.73	3.00	73.77	-23.61	-13.00	10.61
9496.00	28488.00	PK	7.10	V	19.20	46.73	3.00	73.03	-24.35	-13.00	11.35
9496.00	37984.00	PK	10.24	Н	23.07	45.74	3.00	79.05	-18.33	-13.00	5.33
9496.00	37984.00	PK	10.86	V	23.07	45.74	3.00	79.67	-17.71	-13.00	4.71

8.7 Modulation Characteristics

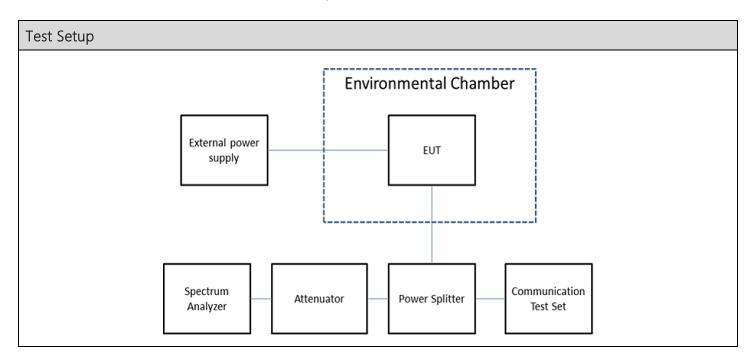
Limits from FCC Parts 2.1047 and test procedure from ANSI C63.26-2015



N/A

8.8 Frequency Stability

Limits from FCC Parts 2.1055, and 90.213; and test procedure from ANSI C63.26-2015.



Test Results, Mode 1						
Tuned Frequency (MHz) Max Deviation (kHz) Limit (ppm)						
9434	34.472	1250				

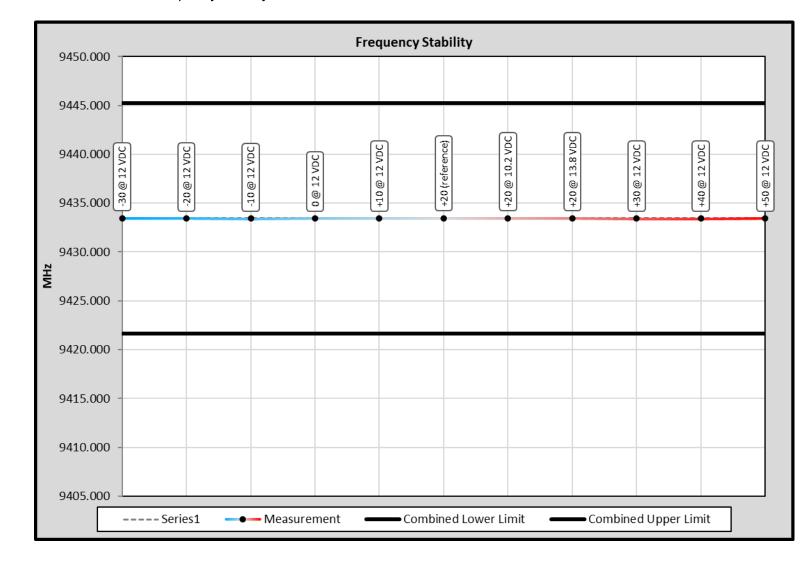
Frequency Stability, Tabular Data

8.8.1 Frequency Stability Data

Lir	nit	1250.0	ppm					
Limit,	as ppb	1250000	ppb (Parts per Billion)					
Limit	, as %	0.12500	%					
Strictest Combi	ned Limit, as Hz	11791823.513	Hz					
Combined	Lower Limit	9421.666986	MHz					
Combined	Upper Limit	9445.250634	MHz					
Rated Sup	ply Voltage	12.0	C AC DC					
Temperature / Voltage Variation								
Temperature (°C)	Supplied Voltage (V)	Frequency (MHz)	Deviation (kHz)					
-30	12.0	9433.447987	10.823					
-20	12.0	9433.437162	21.648					
-10	12.0	9433.426339	32.471					
0	12.0	9433.437162	21.648					
+10	12.0	9433.436984	21.826					
+20 (reference)	12.0	9433.458810	0.000					
+20	10.2	9433.458810	0.000					
+20	13.8	9433.447986	10.824					
+30	12.0	9433.426338	32.472					
+40	12.0	9433.426338	32.472					
+50	12.0	9433.437162	21.648					

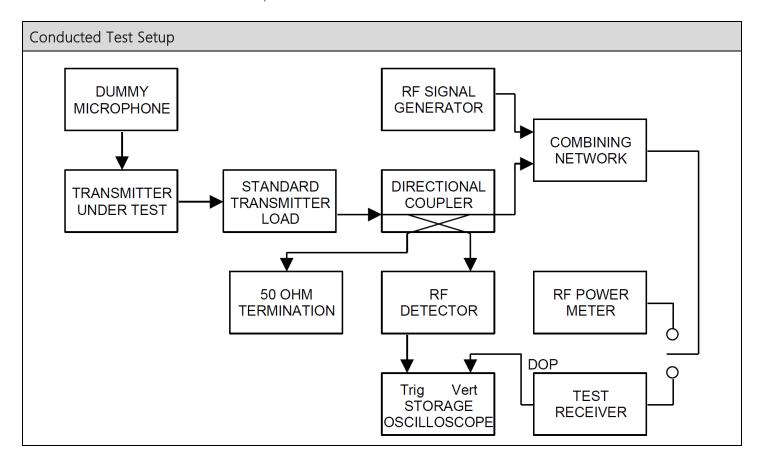


8.8.2 Frequency Stability Plot



8.9 Transient Frequency Behavior

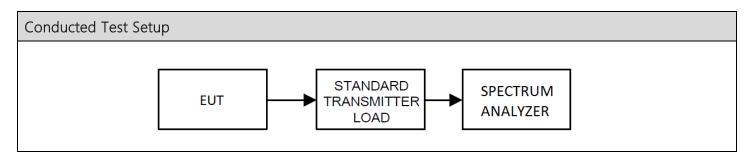
Limits from FCC Part 90.214; and test procedure from ANSI C63.26-2015.



N/A

8.10Adjacent channel power limits

Limits from FCC Part 90.221, and test procedure from ANSI C63.26-2015.



n/a. The EUT does not operate in a band requiring ACP.

9. ANNEX-A - Photographs of the EUT

Photographs of the EUT and any manufacturer supplied accessories to be used with the EUT are in separate supplementary documents labelled EXTERNAL PHOTOS and INTERNAL PHOTOS.

10. ANNEX-B – Test Setup Photographs

Test setup photographs are located in a separate supplementary ANNEX-B document.

11. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
	1	Initial release	2/4/2022
TR_5479-21_FCC_PT90_	2	Updated Page 6	3/30/2022
	3	Updated Page 6 – Added FVIN	6/08/2022

END OF TEST REPORT