

EMC Test Report

regarding

USA: CFR Title 47, Part 15.231 (Emissions)
Canada: IC RSS-210/GENe (Emissions)

for



FOBU3

Category: UHF Transmitter

Judgments:

15.231 / RSS-210v10 Compliant

Testing Completed: April 7, 2023



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Contents

Revision History	2
Table of Contents	2
1 Test Report Scope and Limitations	4
1.1 Laboratory Authorization	4
1.2 Report Retention	4
1.3 Subcontracted Testing	4
1.4 Test Data	4
1.5 Limitation of Results	4
1.6 Copyright	4
1.7 Endorsements	4
1.8 Test Location	5
1.9 Traceability and Equipment Used	5
2 Test Specifications and Procedures	6
2.1 Test Specification and General Procedures	6
3 Configuration and Identification of the Equipment Under Test	7
3.1 Description and Declarations	7
3.1.1 EUT Configuration	8
3.1.2 Modes of Operation	8
3.1.3 Variants	8
3.1.4 Test Samples	8
3.1.5 Functional Exerciser	8
3.1.6 Modifications Made	8
3.1.7 Production Intent	8
3.1.8 Declared Exemptions and Additional Product Notes	8
4 Emissions	9
4.1 General Test Procedures	9
4.1.1 Radiated Test Setup and Procedures	9
4.1.2 Conducted Emissions Test Setup and Procedures	11
4.1.3 Power Supply Variation	11
4.2 Intentional Emissions	12
4.2.1 Fundamental Emission Pulsed Operation	12
4.2.2 Fundamental Emission Bandwidth	15
4.2.3 Fundamental Emission Field Strength	17
4.3 Unintentional Emissions	18
4.3.1 Transmit Chain Spurious Emissions	18
5 Measurement Uncertainty and Accreditation Documents	19

List of Tables

1	Test Site List.	5
2	Equipment List.	5
3	EUT Declarations.	7
4	Fundamental Emission Pulsed Operation.	12
5	Fundamental Emission Bandwidth.	15
6	Fundamental Emission Field Strength.	17
7	Transmit Chain Spurious Emissions.	18
8	Measurement Uncertainty.	19

List of Figures

1	Photos of EUT.	7
2	EUT Test Configuration Diagram.	8
3	Radiated Emissions Diagram of the EUT.	9
4	Radiated Emissions Test Setup Photograph(s).	10
5	Fundamental Emission Pulsed Operation.	13
5	Fundamental Emission Pulsed Operation.	14
6	Fundamental Emission Bandwidth.	16
7	Accreditation Documents	19

1 Test Report Scope and Limitations

1.1 Laboratory Authorization

Test Facility description and attenuation characteristics are on file with the FCC Laboratory, Columbia, Maryland (FCC Reg. No: US5348 and US5356) and with ISED Canada, Ottawa, ON (File Ref. No: 3161A and 24249). Amber Helm Development L.C. holds accreditation under NVLAP Lab Code 200129-0.

1.2 Report Retention

For equipment verified to comply with the regulations herein, the manufacturer is obliged to retain this report with the product records for the life of the product, and no less than ten years. A copy of this Report will remain on file with this laboratory until May 2033.

1.3 Subcontracted Testing

This report does not contain data produced under subcontract.

1.4 Test Data

This test report contains data included within the laboratory's scope of accreditation. Any data in this report that is not covered under the laboratory's scope is clearly identified.

1.5 Limitation of Results

The test results contained in this report relate only to the item(s) tested. Any electrical or mechanical modification made to the test item subsequent to the test date shall invalidate the data presented in this report. Any electrical or mechanical modification made to the test item subsequent to this test date shall require reevaluation.

1.6 Copyright

This report shall not be reproduced, except in full, without the written approval of Amber Helm Development L.C.

1.7 Endorsements

This report shall not be used to claim product endorsement by any accrediting, regulatory, or governmental agency.

1.8 Test Location

The EUT was fully tested by **Amber Helm Development L.C.**, headquartered at 92723 Michigan Hwy-152, Sister Lakes, Michigan 49047 USA. Table 1 lists all sites employed herein. Specific test sites utilized are also listed in the test results sections of this report where needed.

Table 1: Test Site List.

Description	Location	Quality Num.
OATS (3 meter)	3615 E Grand River Rd., Williamston, Michigan 48895	OATSC

1.9 Traceability and Equipment Used

Pertinent test equipment used for measurements at this facility is listed in Table 2. The quality system employed at Amber Helm Development L.C. has been established to ensure all equipment has a clearly identifiable classification, calibration expiry date, and that all calibrations are traceable to the SI through NIST, other recognized national laboratories, accepted fundamental or natural physical constants, ratio type of calibration, or by comparison to consensus standards.

Table 2: Equipment List.

Description	Manufacturer/Model	SN	Quality Num.	Cal/Ver By / Date Due
Biconical	EMCO / 93110B	9802-3039	BICEMCO01	Keysight / Aug-2023
Log Periodic Antenna	EMCO / 3146	9305-3614	LOGEMCO01	Keysight / Aug-2023
BNC-BNC Coax	WRTL / RG58/U	001	CAB001-BLACK	AHD / Sept-2023
3.5-3.5MM Coax	PhaseFlex / PhaseFlex	001	CAB015-PURP	AHD / Jun-2023
Spectrum Analyzer	R & S / FSV30	101660	RSFSV30001	RS / Apr-2024
EMI Receiver	R & S / ESW26	101313	RSESW2601	RS / October-2023
Quad Ridge Horn	Singer / A6100	C35200	HQR1TO18S01	Keysight / Aug-2024

2 Test Specifications and Procedures

2.1 Test Specification and General Procedures

The goal of Lear Corporation is to demonstrate that the Equipment Under Test (EUT) complies with the Rules and/or Directives below. Detailed in this report are the results of testing the Lear Corporation FOBU3 for compliance to:

Country/Region	Rules or Directive	Referenced Section(s)
United States	Code of Federal Regulations	CFR Title 47, Part 15.231
Canada	ISED Canada	IC RSS-210/GENe

It has been determined that the equipment under test is subject to the rules and directives above at the date of this testing. In conjunction with these rules and directives, the following specifications and procedures are followed herein to demonstrate compliance (in whole or in part) with these regulations.

ANSI C63.4:2014	"Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz"
ANSI C63.10:2013	"American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices"
TP0102RA	"AHD Internal Document TP0102 - Radiated Emissions Test Procedure"
ICES-003; Issue 7 (2020)	"Information Technology Equipment (ITE) - Limits and methods of measurement"

3 Configuration and Identification of the Equipment Under Test

3.1 Description and Declarations

The equipment under test is an Automotive Passive Keyless Entry transmitter. The EUT is approximately 7 x 4 x 1.5 cm in dimension, and is depicted in Figure 1. It is powered by 3 VDC Lithium cell battery. In use, this device is hand held Table 3 outlines provider declared EUT specifications.

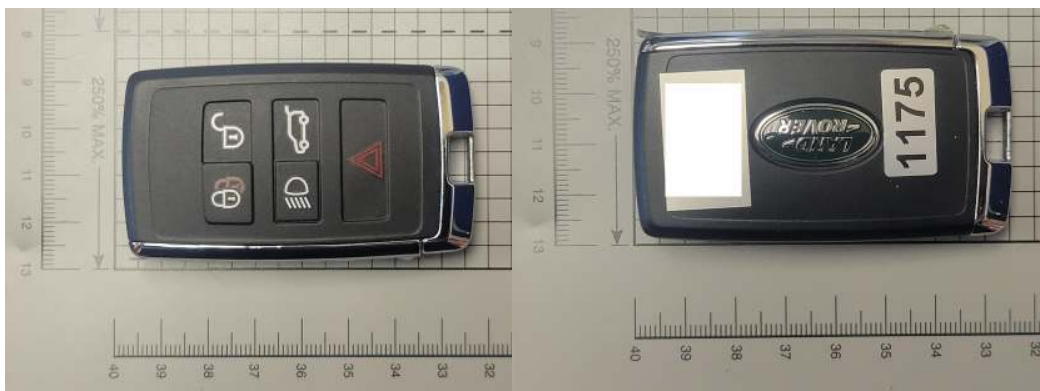


Figure 1: Photos of EUT.

Table 3: EUT Declarations.

General Declarations	
Equipment Type:	UHF Transmitter
Country of Origin:	China
Nominal Supply:	3 VDC
Oper. Temp Range:	-30°C to +60°C
Frequency Range:	314.68 – 315.32 MHz
Antenna Dimension:	3 cm
Antenna Type:	Integral
Antenna Gain:	Not Declared
Number of Channels:	3
Channel Spacing:	320 kHz
Alignment Range:	Not Declared
Type of Modulation:	ASK/FSK
United States	
FCC ID Number:	KOBJXF23A
Classification:	DSC
Canada	
IC Number:	3521A-JXF23A
Classification:	Remote Control Device, Vehicular Device

3.1.1 EUT Configuration

The EUT is configured for testing as depicted in Figure 2.

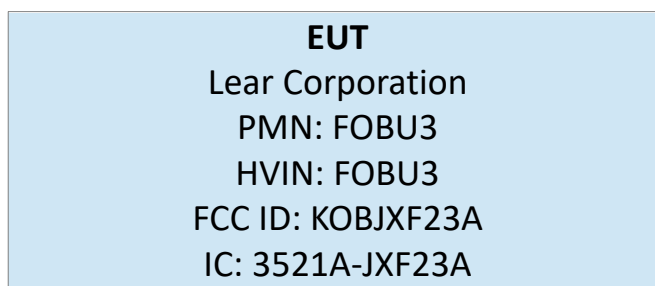


Figure 2: EUT Test Configuration Diagram.

3.1.2 Modes of Operation

There are two principle modes of operation for this device. The first mode (UHF-MODE) is that of a manually actuated 315 MHz UHF transmitter used for locking, unlocking, and panic transmissions to the vehicle. After manual button press this mode steps through three transmission channels sequentially, 315.000 MHz, 314.68 MHz, and 315.32 MHz. This mode may also be automatically activated through detection of an encoded LF transmission from the vehicle. In that case the EUT only transmits a single ASK frame in response on only one of the frequencies above. The second principle mode is that of a UWB transceiver (UWB-MODE) which is addressed in a second test report (AHD Report No.: LRFOBC-WR2235TXB).

3.1.3 Variants

There is only a single variant of the EUT, as tested.

3.1.4 Test Samples

Two samples of the EUT were provided for testing, including a normal operating sample (SN: 1265) and a sample (SN: 1175) with modified SW to transmit CM or CW depending on the button actuated.

3.1.5 Functional Exerciser

Normal operating EUT functionality was verified by observation of transmitted signal.

3.1.6 Modifications Made

There were no modifications made to the EUT by this laboratory.

3.1.7 Production Intent

The EUT appears to be a production ready sample.

3.1.8 Declared Exemptions and Additional Product Notes

None.

4 Emissions

4.1 General Test Procedures

4.1.1 Radiated Test Setup and Procedures

Radiated electromagnetic emissions from the EUT are first pre-scanned in our screen room. Spectrum and modulation characteristics of all emissions are recorded. Instrumentation, including spectrum analyzers and other test equipment as detailed in Section 1.8 are employed. After pre-scan, emission measurements are made on the test site of record. If the EUT connects to auxiliary equipment and is table or floor standing, the configurations prescribed in relevant test standards are followed. Alternatively, a layout closest to normal use (as declared by the provider) is employed if the resulting emissions appear to be worst-case in such a configuration. See Figure 3. All intentionally radiating elements that are not fixed-mounted in use are placed on the test table lying flat, on their side, and on their end (3-axes) and the resulting worst case emissions are recorded. If the EUT is fixed-mounted in use, measurements are made with the device oriented in the manner consistent with installation and then emissions are recorded. If the EUT exhibits spurious emissions due to internal receiver circuitry, such emissions are measured with an appropriate carrier signal applied.

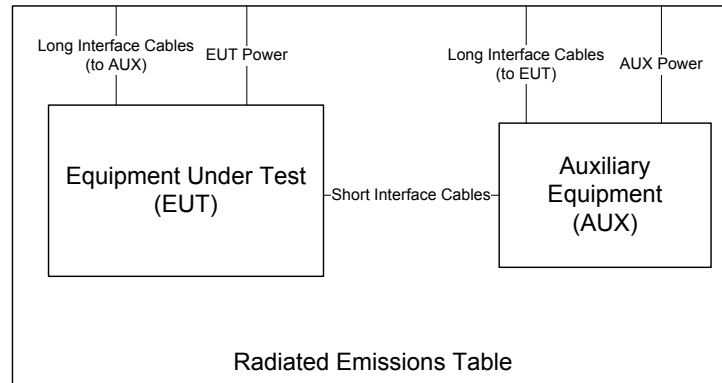


Figure 3: Radiated Emissions Diagram of the EUT.

For devices with intentional emissions below 30 MHz, a shielded loop antenna and/or E-field and H-Field broadband probes are used depending on the regulation. Shielded loops are placed at a 1 meter receive height at the desired measurement distance. For exposure in this band, 10cm diameter single-axis broadband probes meeting the requirements of ISSED SPR-002 section 5.2 are employed. Measurements are repeated and summed over three axes, and the entire frequency range is measured with and without the EUT transmitting.

Emissions between 30 MHz and 1 GHz are measured using calibrated broadband antennas. For both horizontal and vertical polarizations, the test antenna is raised and lowered from 1 to 4 m in height until a maximum emission level is detected. The EUT is then rotated through 360° in azimuth until the highest emission is detected. The test antenna is then raised and lowered one last time from 1 to 4 m and the worst case value is recorded. Emissions above 1 GHz are characterized using standard gain or broadband ridge-horn antennas on our OATS with a 4 × 5 m rectangle of ECCOSORB absorber covering the OATS ground screen and a 1.5m table height. Care is taken to ensure that test receiver resolution and video bandwidths meet the regulatory requirements, and that the emission bandwidth of the EUT is not reduced. Photographs of the test setup employed are depicted in Figure 4.

Where regulations allow for direct measurement of field strength, power values (dBm) measured on the test receiver / analyzer are converted to dBμV/m at the regulatory distance, using

$$E_{dist} = 107 + P_R + K_A - K_G + K_E - C_F$$

where P_R is the power recorded on spectrum analyzer, in dBm, K_A is the test antenna factor in dB/m, K_G is the combined pre-amplifier gain and cable loss in dB, K_E is duty correction factor (when applicable) in dB, and C_F is a distance conversion (employed only if limits are specified at alternate distance) in dB. This field strength value is then compared with the regulatory limit. If effective isotropic radiated power (EIRP) is computed, it is computed as

$$EIRP(dBm) = E_{3m}(dB\mu V/m) - 95.2.$$

When presenting data at each frequency, the highest measured emission under all possible EUT orientations (3-axes) is reported.



Figure 4: Radiated Emissions Test Setup Photograph(s).

4.1.2 Conducted Emissions Test Setup and Procedures

The EUT is not subject to measurement of power line conducted emissions as it is powered solely by its internal battery.

4.1.3 Power Supply Variation

Tests at extreme supply voltages are made if required by the procedures specified in the test standard, and results of this testing are detailed in this report.

Power supply variation testing was not performed for this device.

4.2 Intentional Emissions

4.2.1 Fundamental Emission Pulsed Operation

Test Setup & Procedure The test equipment and facilities were setup in accordance with the standards and procedures listed in Section 2.1. Environmental conditions were set at the appropriate temperature and thermal balance was checked with a thermocouple based probe. Duty cycle is reported for all relevant modes of operation. The test equipment employed includes RSFSV30001, DIPEMC001.

Measurement Results The details and results of testing the EUT are summarized in Table 4. Plots showing the measurements made to obtain these values are provided in Figure 5.

Table 4: Fundamental Emission Pulsed Operation.

Detector Span IF Bandwidth Video Bandwidth
Pk 0 1 MHz 3 MHz

Test Date: 6-Mar-23
Test Engineer: J. Nantz
EUT: Lear SK CTO
EUT Mode: Normal Operating
Meas. Distance: 10 cm

FCC/IC									
R0	Test Freq. (MHz)	EUT Test Mode*	Overall Transmission			Internal Frame Characteristics		Computed Duty Cycle	
			Min. Repetition Rate (sec)	Max. No. of Frames	Total Transmission Length (sec)	Max. Frame Length (ms)	Min. Frame Period (ms)	Frame Encoding	
R1	315	Button Act ASK Frame subfigure (a)	single	1	0.86	50.2	102.3	Only a single ASK or FSK frame may occur within any given 100 ms window per RF channel. Each ASK frame consists of 50.2 ms of OOK data with a 0.130/0.257 duty. Each FSK frame is 21.7 ms in duration.	25.4
R2	315	Button Act FSK Frame subfigure (a)	single	2	0.86	21.7	102.3		-11.9
R3	315	LF Act ASK Frames subfigure (b)	single	2	0.10	2.9	100.0	When manually activated by encoded LF interrogation, two ASK frame on a single channel can occur in a 100 ms window. Each ASK frame consists of 2.86 ms of Manchester encoded data with a 0.025/0.050 duty.	-13.3
#	C1	C2	C3	C4	C5	C6	C7	C8	C9
									C10

Example Calculation: 25 ms / 100 ms = 25 % on-time.

BUTTON ACTIVATED MODE

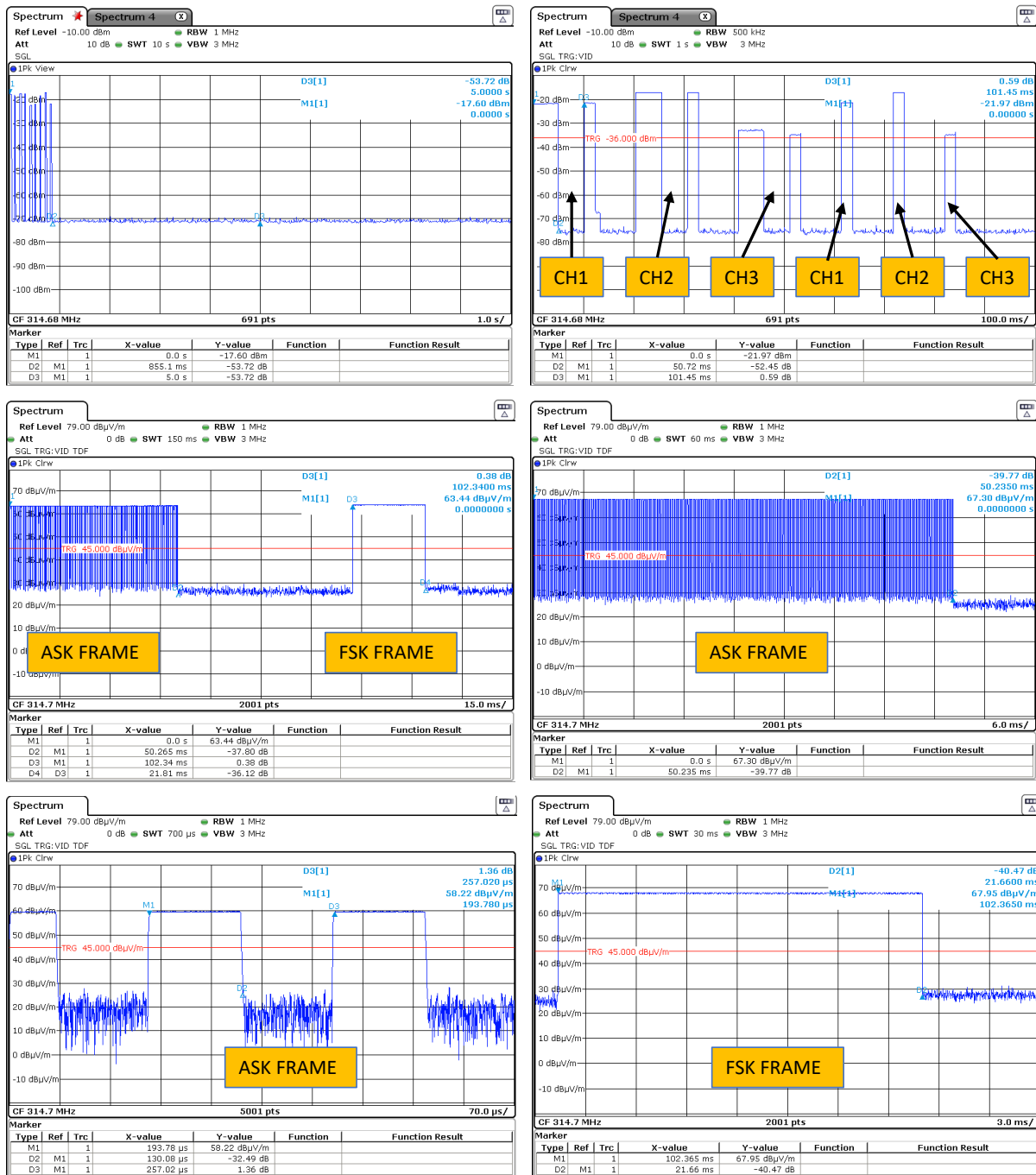
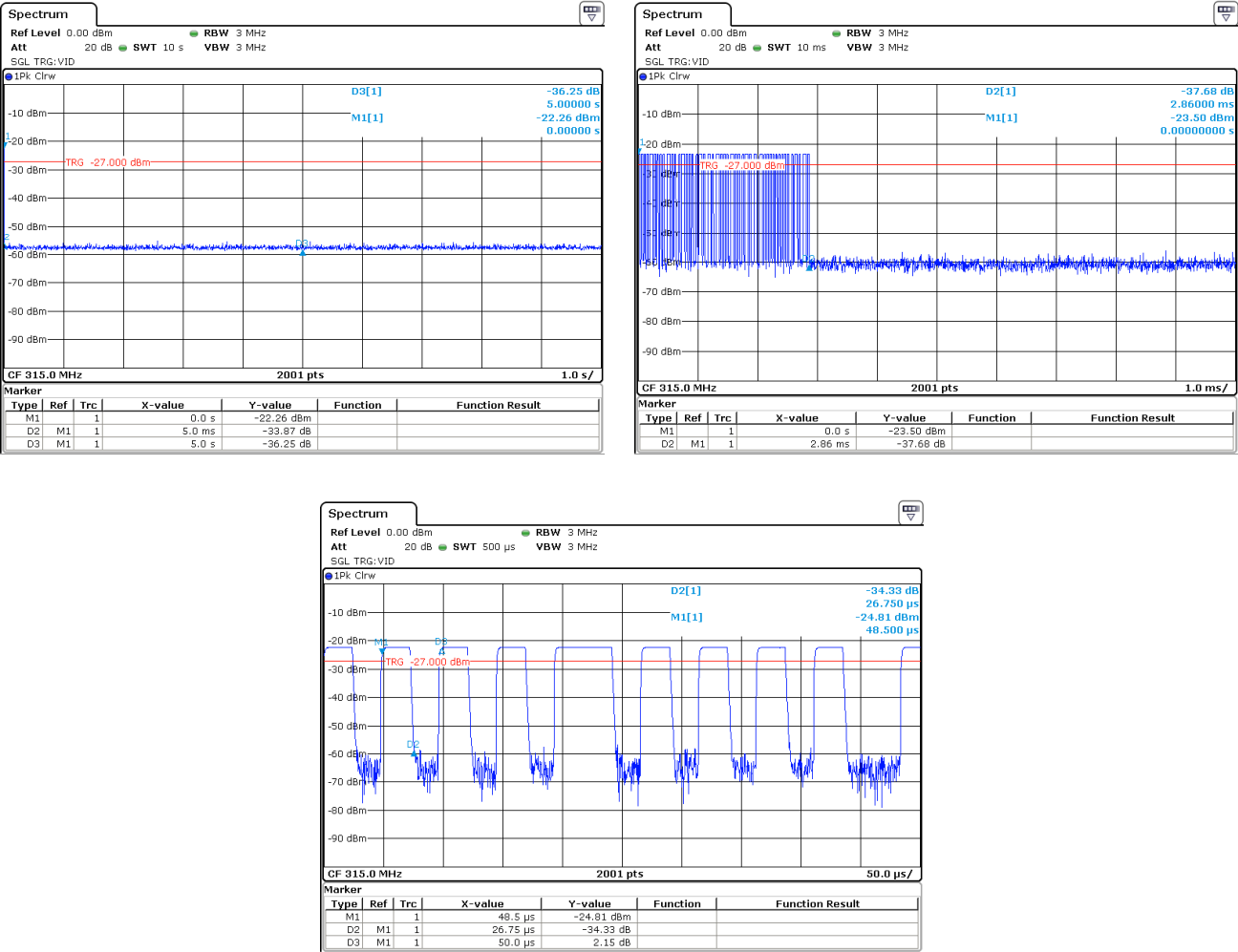


Figure 5(a): Fundamental Emission Pulsed Operation.

LF ACTIVATED MODE



4.2.2 Fundamental Emission Bandwidth

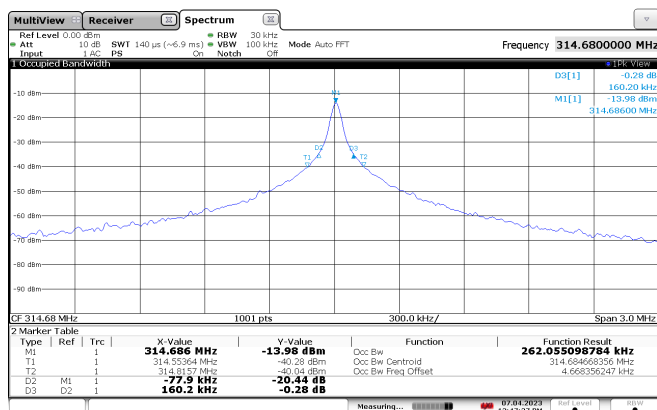
Test Setup & Procedure The test equipment and facilities were setup in accordance with the standards and procedures listed in Section 2.1. Environmental conditions were set at the appropriate temperature and thermal balance was checked with a thermocouple based probe. Emission bandwidth (EBW) of the EUT is measured with the device placed in the test mode(s) with the shortest available frame length and minimum frame spacing. The 20 dB EBW is measured as the max-held peak-detected signal when the IF bandwidth is greater than or equal to 1% of the receiver span. For complex modulations other than ASK and FSK, the 99% emission bandwidth per IC test procedures has a different result, and is also reported. The test equipment employed includes RSFSV30001, DIPEMC001.

Measurement Results The details and results of testing the EUT are summarized in Table 5. Plots showing the measurements made to obtain these values are provided in Figure 6.

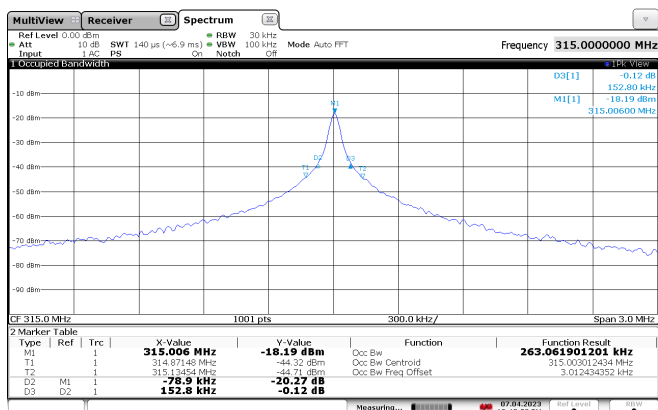
Table 5: Fundamental Emission Bandwidth.

				Test Date: 6-Mar-23			
Detector Pk		IF Bandwidth 10 kHz	Video Bandwidth 100 kHz		Test Engineer: J. Nantz		
				EUT: Lear SK CTO			
				EUT Mode: Normal Operating			
				Meas. Distance: 10 cm			
FCC/IC							
R0	Mode	Center Frequency (MHz)	20 dB EBW (MHz)	EBW Limit (MHz)	99% OBW (kHz)	Accum. 20dB OBW (MHz)	Pass/Fail
R1	RKE-CH1	314.68	0.160	0.787	779.848	0.466	Pass
R2	RKE-CH2	315.00	0.153				
R3	RKE-CH3	315.32	0.153				
R4	LF	315.00	0.171	0.788	259.336	0.171	Pass
#	C1	C2	C3	C4	C5	C7	C8
(ROW)	(COLUMN)	NOTE:					
R0	C4	Worst case bandwidth used (0.25% of lowest channel frequency)					
R1/R2/R3	C7	Sum of all channels 20dB bandwidths per with KDB Guidance 926416					
R4	C7	Only one RF channel is used for LF functions					

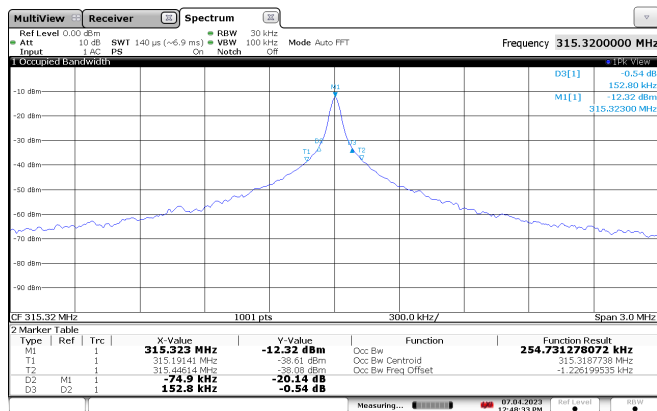
Manual Button Press – CH1



Manual Button Press – CH2



Manual Button Press – CH3



Automatic Activation- LF

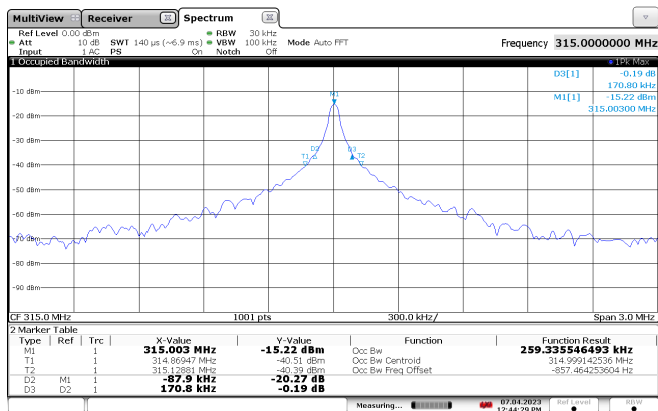


Figure 6: Fundamental Emission Bandwidth.

4.2.3 Fundamental Emission Field Strength

Test Setup & Procedure The test equipment and facilities were setup in accordance with the standards and procedures listed in Section 2.1. Environmental conditions were set at the appropriate temperature and thermal balance was checked with a thermocouple based probe. Fundamental emissions are measured at the regulatory distance on our OATS. The test equipment employed includes RSFSV30001, DIPENC001.

Measurement Results The details and results of testing the EUT are summarized in Table 6.

Table 6: Fundamental Emission Field Strength.

EUT Modes:		a1	CW (SN: 1175) - No Key Inserted													a5	
		a2	CW (SN: 1175) - With Key Inserted													a6	
Test Date(s):		03/01/23	a3														a7
Test Engineer:		J Nantz	a4														a8

R0	Frequency		Temp. (C) Hum. %	Table Angle deg	Site			CF	EUT			Test Antenna				Cable Kg dB	Receiver			Field Strength @ DR						EIRP		Details	
	Start	Stop			MR	DR	N/F		Mode	Volt.	Dim	Pol.	Ant. Height	Dim.	Ka		Rx Power	Bandwidth	Meas.		Pk		Qpk / Avg		Pk	Calc.			
	MHz	MHz							see table	(V)	cm	H/V	m	cm	dB/m		Pk	Avg			RBW	VBW	Limit	Calc.			Limit		Calc.
															dBm			MHz				dBuV/m			dBm				
R1	SETUP				OATSC				Lear SK CTO			EMCOLOG				CAB001	RSFSV30001				H-POL - FLAT, V-POL END Worst Case Orient								
R2	314.7	314.7	9 / 67	90.0	3.0	3.0		0.0	a1	3.0	7.5	H	1.0	100.0	14.1	-0.1			0.12	0.30	87.0	95.6	95.6	75.1	75.6	75.6	-8.1		0.5
R3	314.7	314.7	9 / 67	180.0	3.0	3.0		0.0	a1	3.0	7.5	V	1.3	100.0	14.1	-0.1			0.12	0.30	80.7	95.6	95.6	68.8	75.6	75.6	-14.4		6.8
R4																													
R5	314.7	314.7	9 / 67	90.0	3.0	3.0		0.0	a2	3.0	7.5	H	1.0	100.0	14.1	-0.1			0.12	0.30	86.8	95.6	95.6	74.9	75.6	75.6	-8.3		0.7
R6	314.7	314.7	9 / 67	180.0	3.0	3.0		0.0	a2	3.0	7.5	V	1.3	100.0	14.1	-0.1			0.12	0.30	83.2	95.6	95.6	71.3	75.6	75.6	-11.9		4.3
R7																													
R8	315.3	315.3	9 / 67	90.0	3.0	3.0		0.0	a1	3.0	7.5	H	1.0	100.0	14.1	-0.1			0.12	0.30	86.5	95.6	95.6	74.6	75.6	75.6	-8.6		1.0
R9	315.3	315.3	9 / 67	180.0	3.0	3.0		0.0	a1	3.0	7.5	V	1.3	100.0	14.1	-0.1			0.12	0.30	82.4	95.6	95.6	70.5	75.6	75.6	-12.7		5.1
R10																													
R11	315.3	315.3	9 / 67	90.0	3.0	3.0		0.0	a2	3.0	7.5	H	1.0	100.0	14.1	-0.1			0.12	0.30	87.3	95.6	95.6	75.4	75.6	75.6	-7.8		0.2
R12	315.3	315.3	9 / 67	180.0	3.0	3.0		0.0	a2	3.0	7.5	V	1.3	100.0	14.1	-0.1			0.12	0.30	82.6	95.6	95.6	70.7	75.6	75.6	-12.5		4.9
R13																													
#	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23	C24	C25	C26	C27	C28	C29

(ROW)	(COLUMN)	NOTE:
R0	C5	MR is Measurement Range, which is reduced from DR to achieve necessary SNR.
R0	C6	DR is the regulatory Desired Range measurement distance.
R0	C7	N/F is Near-Field / Far-Field distance computed for max of EUT Antenna Dimension (C10) computed above 1 GHz.
R0	C8	CF is computed using a 20 dB/decade Decay Rate.
R0	C17/18	When E-field or EIRP is reported directly from Spectrum Analyzer, Antenna Factors and Cable losses are included directly in SA settings and Pr is not reported.

4.3 Unintentional Emissions

4.3.1 Transmit Chain Spurious Emissions

The results for the measurement of transmit chain spurious emissions at the nominal voltage and temperature are provided in Table 7.

Table 7: Transmit Chain Spurious Emissions.

EUT Modes: a1
a2 CW (SN: 1175) - With Key Inserted
a5
a6
Test Date(s): 03/06/23 a3 a7
Test Engineer: J. Nantz a4 a8

R0	Frequency		Temp. (C) Hum.	Table Angle	Site				EUT			Test Antenna				Cable Kg	Receiver			Field Strength @ DR						EIRP		Details	
	Start	Stop			MR	DR	N/F	CF	Mode see table	Volt. (V)	Dim cm	Pol. H/V	Ant. Height m	Dim. cm	Ka dB/m		Rx Power Pk Avg dBm	Bandwidth RBW VBW MHz	Meas.	Pk Limit USA/CAN	Calc.	Qpk / Avg Limit USA/CAN	Calc.	Limit Calc.	Pass Fail dB				
	MHz	MHz																											
						%	deg																						
R1	SETUP					OATSC				Lear SK CTO			EMCOLOG			CAB001	RSFSV30001			NOTES: H-POL - FLAT, V-POL END Worst Case Orient									
R2	629.4	630.6	4/ 67	220.0	3.0	3.0		0.0	a2	3.0	8.0	H	1.0	100.0	10.6	-0.1		0.12	0.30	46.0	75.6	75.6	34.1	55.6	55.6	-49.2		21.5	
R3	629.4	630.6	4/ 67	0.0	3.0	3.0		0.0	a2	3.0	8.0	V	1.0	100.0	10.6	-0.1		0.12	0.30	39.5	75.6	75.6	27.6	55.6	55.6	-55.7		28.0	
R4	944.0	946.0	4/ 67	220.0	3.0	3.0		0.0	a2	3.0	8.0	H	1.0	100.0	16.7	-0.2		0.12	0.30	22.2	75.6	75.6	10.3	55.6	55.6	-73.0		45.3	
R5	944.0	946.0	4/ 67	0.0	3.0	3.0		0.0	a2	3.0	8.0	V	1.0	100.0	16.7	-0.2		0.12	0.30	25.8	75.6	75.6	13.9	55.6	55.6	-69.4		41.7	
R6	SETUP					OATSC				Lear SK CTO			HRNSINGQR			CAB015	RSFSV30001			NOTES: max all orientations of EUT									
R7	1258.7	1261.3	4/ 67	all	3.0	3.0	0.2	0.0	a2	3.0	8.0	H/V	all	15.0	21.5	-2.8		1.00	3.00	34.6	75.6	75.6	22.7	55.6	55.6	-60.6		32.9	
R8	1573.4	1576.6	4/ 67	all	3.0	3.0	0.2	0.0	a2	3.0	8.0	H/V	all	15.0	25.2	-3.2		1.00	3.00	49.1	74.0	74.0	37.2	54.0	54.0	-46.1		4.9	
R9	1888.1	1891.9	4/ 67	all	3.0	3.0	0.3	0.0	a2	3.0	8.0	H/V	all	15.0	27.9	-3.6		1.00	3.00	41.2	75.6	75.6	29.3	55.6	55.6	-54.0		26.3	
R10	2202.8	2207.2	4/ 67	all	3.0	3.0	0.3	0.0	a2	3.0	8.0	H/V	all	15.0	29.7	-4.0		1.00	3.00	43.2	74.0	74.0	31.3	54.0	54.0	-52.0		10.8	
R11	2517.4	2522.6	4/ 67	all	3.0	3.0	0.4	0.0	a2	3.0	8.0	H/V	all	15.0	30.9	-4.3		1.00	3.00	45.8	75.6	75.6	33.9	55.6	55.6	-49.4		21.7	
R12	2832.1	2837.9	4/ 67	all	3.0	3.0	0.4	0.0	a2	3.0	8.0	H/V	all	15.0	31.6	-4.7		1.00	3.00	48.6	74.0	74.0	36.7	54.0	54.0	-46.6		5.4	
R13	3146.8	3153.2	4/ 67	all	3.0	3.0	0.5	0.0	a2	4.0	8.0	H/V	all	15.0	31.9	-5.1		1.00	3.00	40.0	75.6	75.6	28.1	55.6	55.6	-55.2		27.5	
R14																													
R15																													
#	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23	C24	C25	C26	C27	C28	C29

(ROW) (COLUMN)

NOTE:
R0 C5 MR is Measurement Range, which is reduced from DR to achieve necessary SNR.
R0 C6 DR is the regulatory Desired Range measurement distance.
R0 C7 N/F is Near-Field / Far-Field distance computed for max of EUT Antenna Dimension (C11) computed above 1 GHz.
R0 C8 CF is computed using a 20 dB/decade Decay Rate.
R0 C17/18 When E-field or EIRP is reported directly from Spectrum Analyzer, Antenna Factors and Cable losses are included directly in SA settings and Pr is not reported.
R0 C21 EUT with key inserted was found to have the highest field levels. Reported values are the greater of EUT emission or background noise.

5 Measurement Uncertainty and Accreditation Documents

The maximum values of measurement uncertainty for the laboratory test equipment and facilities associated with each test are given in the table below. This uncertainty is computed for a 95.45% confidence level based on a coverage factor of $k = 2$.

Table 8: Measurement Uncertainty.

Measured Parameter	Measurement Uncertainty [†]
Radio Frequency	$\pm(f_{Mkr}/10^7 + RBW/10 + (SPN/(PTS - 1))/2 + 1 \text{ Hz})$
Conducted Emm. Amplitude	$\pm 1.9 \text{ dB}$
Radiated Emm. Amplitude ($f < 30 \text{ MHz}$)	$\pm 3.1 \text{ dB}$
Radiated Emm. Amplitude (30 – 200 MHz)	$\pm 4.0 \text{ dB}$
Radiated Emm. Amplitude (200 – 1000 MHz)	$\pm 5.2 \text{ dB}$
Radiated Emm. Amplitude ($f > 1000 \text{ MHz}$)	$\pm 3.7 \text{ dB}$

[†]Ref: CISPR 16-4-2:2011+A1:2014



Figure 7: Accreditation Documents