

Amber Helm Development L.C.

92723 Michigan Hwy-152

Sister Lakes, Michigan 49047 USA

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EMC Test Report

F3TR-WR1918TX

Issued: November 5, 2019

regarding

USA: CFR Title 47, Part 95 Subpart M (Emissions)
Canada: ISED RSS-251 version 2 (Emissions)

for

PHOTOS HELD SHORT TERM
CONFIDENTIAL

F3TR

Category: FMCW Radar

Judgments:

FCC Part 95M and ISED RSS-251v2 Compliant

Testing Completed: November 3, 2019



Prepared for:

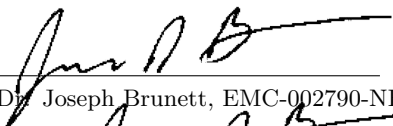
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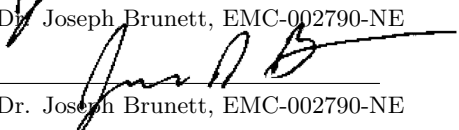
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Revision History

Rev. No.	Date	Details	Revised By
r0	November 5, 2019	Initial Release.	J. Brunett
r1	November 19, 2019	Remove duty cycle, minor typo corrections.	J. Brunett

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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 December 2029.

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 laboratories scope of accreditation.

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.	Last Cal By / Date Due
Spectrum Analyzer	R & S / FSV30	101660	RSFSV30001	RS / Apr-2021
Harmonic Mixer	Hewlett Packard / 11970U	2332A01153	MIX40TO7001	Keysight / Mar-2022
Harmonic Mixer	VDI / SAX 108	A30316	MIX60TO9001	Keysight / On-Use
Harmonic Mixer	Hewlett Packard / 11970W	2521A00179	MIX70TO11001	Keysight / Mar-2022
Harmonic Mixer	Pacific mmWave / GMA	26	MIX110TO23001	PMP / On-Use
Biconical	EMCO / 93110B	9802-3039	BICEMCO01	Keysight / Aug-2020
Log Periodic Antenna	EMCO / 3146	9305-3614	LOGEMCO01	Keysight / Aug-2020
Quad Ridge Horn	Singer / A6100	C35200	HQR1TO18S01	Keysight / Aug-2020
K-Band Horn	JEF / NRL Std.	001	HRNK01	AHD / Jul-2020
Ka-Band Horn	JEF / NRL Std.	001	HRNKA001	AHD / Jul-2020
U-Band Horn	Cust. Micro. / HO19R	-	HRNU01	Cust.M. / On-Use
E-Band Horn	Flann M. / 26240-25-1030B	250901	HRNE01	Flann / On-Use
W-Band Horn	Cust. Micro. / HO10R	-	HRNW01	Cust.M. / On-Use
D/G-Band Horn	Cust. Micro. / HO5R	-	HRNG01	Cust.M. / On-Use

2 Test Specifications and Procedures

2.1 Test Specification and General Procedures

The goal of Aptiv Services US, LLC 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 Aptiv Services US, LLC F3TR for compliance to:

Country/Region	Rules or Directive	Referenced Section(s)
United States	Code of Federal Regulations	CFR Title 47, Part 95 Subpart M
Canada	ISED Canada	ISED RSS-251 version 2

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"
ANSI C63.26:2015	"American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services"
KDB 653005 D01 v01r01	"Equipment Authorization Guidance for 76-81 GHz Radar Devices "
TP0102RA	"AHD Internal Document TP0102 - Radiated Emissions Test Procedure"
TP0106RC	"AHD Internal Document TP0106 - Emissions Measurement Procedures (above 40 GHz)"
ISED Canada	"The Measurement of Occupied Bandwidth"

3 Configuration and Identification of the Equipment Under Test

3.1 Description and Declarations

The EUT is an automotive radar. The EUT is approximately 10 x 7 x 1 cm in dimension, and is depicted in Figure 1. It is powered by 12.0 VDC vehicle power system. In use, this device is permanently affixed in a motor vehicle. Table 3 outlines provider declared EUT specifications.

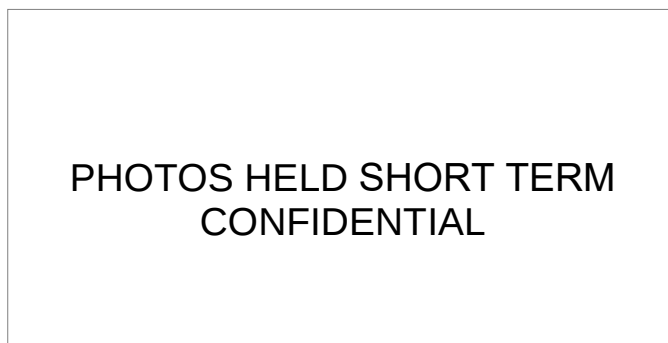


Figure 1: Photos of EUT.

Table 3: EUT Declarations.

General Declarations	
Equipment Type:	FMCW Radar
Country of Origin:	Not Declared
Nominal Supply:	12.0 VDC
Oper. Temp Range:	−40°C to +85°C
Frequency Range:	76.028 to 76.958 GHz
Antenna Dimension:	6cm
Antenna Type:	integral patch arrays
Antenna Gain:	26 dBi (max)
Number of Channels:	3
Channel Spacing:	Not Declared
Alignment Range:	Not Declared
Type of Modulation:	FMCW
United States	
FCC ID Number:	L2CF3TR
Classification:	VRD
Canada	
IC Number:	3432A-F3TR
Classification:	Radar, Vehicular Device

3.1.1 EUT Configuration

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

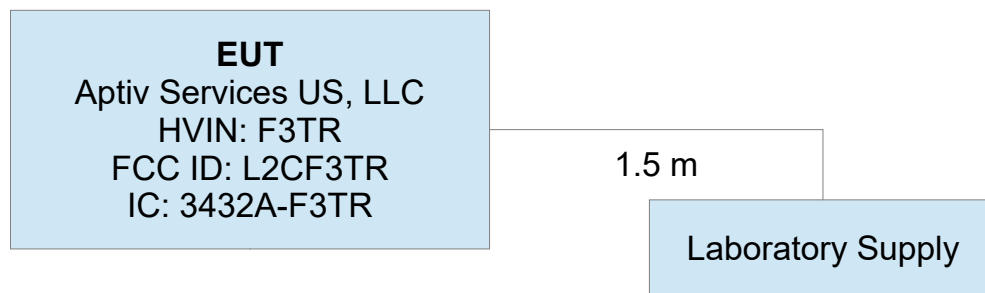


Figure 2: EUT Test Configuration Diagram.

3.1.2 Modes of Operation

The manufacturer considers the modes of operation of this product to be of a proprietary nature. Please reference confidential Modes of Operation exhibit for complete details.

3.1.3 Variants

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

3.1.4 Test Samples

Three samples were provided, each capable of continuous normal transmissions and CW modes at low, middle, and high operating channels.

3.1.5 Functional Exerciser

Normal operating EUT functionality was verified prior to testing by observation of the emissions spectrum.

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

The EUT is permanently installed in a transportation vehicle. As such, digital emissions are exempt from US and Canadian digital emissions regulations (per FCC 15.103(a) and IC correspondence on ICES-003). In the mm-wave band, narrow pulses arise as the FMCW signal chirps past the receiver tuned frequency. To avoid amplitude measurement error due to Pulse Desensitization, we measure peak emissions only when the radar is either placed into CW mode or when the signal Dwells at a single frequency for an extended period of time. In computation of duty cycle for the FMCW chirp modulation, pulse desensitization can cause the measurement receiver with a narrow IFBW to report wider than actual pulse widths, and thus greater on-time and lower duty cycle based on the calculation method. Duty cycle in the FMCW mode is a worst-case computation, applied to a properly measured peak emission.

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.

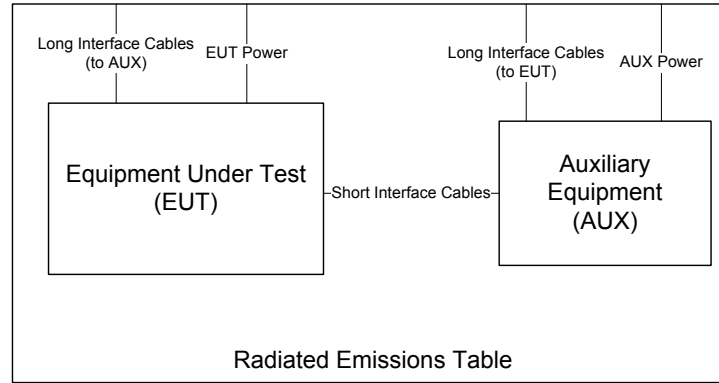


Figure 3: Radiated Emissions Diagram of the EUT.

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 regulations. Shielded loops are placed at a 1 meter receive height at the desired measurement distance. For exposure in this band, the broadband probes employed are 10cm diameter single-axis shielded transducers and measurements are repeated and summed over three axes.

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 $\text{dB}\mu\text{V}/\text{m}$ 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

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

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

Where regulations call for substitution method measurements, the EUT is replaced by a substitution antenna if field strength measurements indicate the emission is close to the regulatory limit. This antenna is co-polarized with the test antenna and tuned (when necessary) to the emission frequency, after which the test antenna height is again optimized. The substitution antenna's signal level is adjusted such that its emission is equal to the level measured from the EUT. The signal level applied to the substitution antenna is then recorded. Effective isotropic radiated power (EIRP) and effective radiated power (ERP) in dBm are formulated from

$$EIRP = P_T - G_A = ERP + 2.16, \quad (1)$$

where P_T is the power applied to substitution antenna in dBm, including correction for cable loss, and G_A is the substitution antenna gain, in dBi.

When microwave measurements are made at a range different than the regulatory distance or made at close-range to improve receiver sensitivity, the reading is corrected back to the regulatory distance. This is done using a 20 dB/decade field behavior as dictated by the test procedures. When measurements are made in the near-field, the near-field/far-field boundary (N/F) is reported. It is computed as

$$N/F = 2D^2/\lambda$$

where D is the maximum dimension of the transmitter or receive antenna, and λ is the wavelength at the measurement frequency. Typically for high frequency measurements the receive antenna is connected to test receiver / analyzer through an external mixer. In this case, cable loss, IF amplifier gain, and mixer conversion losses are corrected for in the data table, or directly in the analyzer.

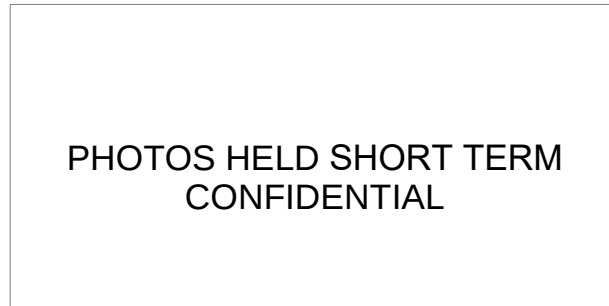


Figure 4: Radiated Emissions Test Setup Photograph(s).

4.1.2 Conducted Emissions Test Setup and Procedures

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.

4.2 Intentional Emissions

4.2.1 Fundamental Emission Pulsed Operation

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

Table 4: Pulsed Emission Characteristics (Duty Cycle).

Det Pk **IF Bandwidth** 28 MHz **Video Bandwidth** 28 MHz **Test Date:** 1-Nov-19
Test Engineer: Joseph Brunett
EUT Aptiv F3TR
Meas. Distance: 1 m

FMCW Details – Exposure Duty Cycle											
Transmit Mode	Voltage	Test Frequency ⁽¹⁾	Total Cycle Time	FMCW On-Time	BPSK Ant Duty ⁽²⁾	Exposure Duty Factor ⁽³⁾	FMCW Period	CHIRP BW	Dwell/MHz/Chirp ⁽⁴⁾	Chirps / On-Time ⁽⁵⁾	Max On-Time/FMCW On-Time ⁽⁶⁾
	(V)	(GHz)	(ms)	(ms)	(dB)	(dB)	(ms)	(MHz)	(ms)	(#)	(ms)
FMCW	12.0	76.500	50.0	13.70	-3.0	-8.6	0.063	290.0	0.00022	217	0.047

(1) Worst-case frequency selected at center of operating band.

(2) 3 x Tx arrays are BPSK driven, resulting in a 25% A1 Gain, 25% A2 Gain, and 50% A3 Gain: $10 \cdot \log_{10}(0.25 \cdot 10^{(0/10)} + 0.25 \cdot 10^{(-3/10)} + 0.50 \cdot 10^{(-6/10)}) = -3.0$, see Modes Exhibit for Details.

(3) Exposure Duty Correction = $10 \cdot \log_{10}(\text{Total On-Time} / \text{Total Cycle-Time}) + \text{BPSK Antenna Duty}$

(4) Dwell / MHz / Chirp is the CW time spent in any given 1MHz window within the channel during a single chirp = FMCW Period / CHIRP BW, CHIRP BW is taken as the smaller of declared and measured.

(5) Chirps / On-Time = FMCW On-Time / FMCW Period

(6) Max On-Time / Cycle = Chirps / On-Time x Dwell / MHz / Chirp

Equipment Used: RSFSV30001, MIX70TO10001, HRNW01

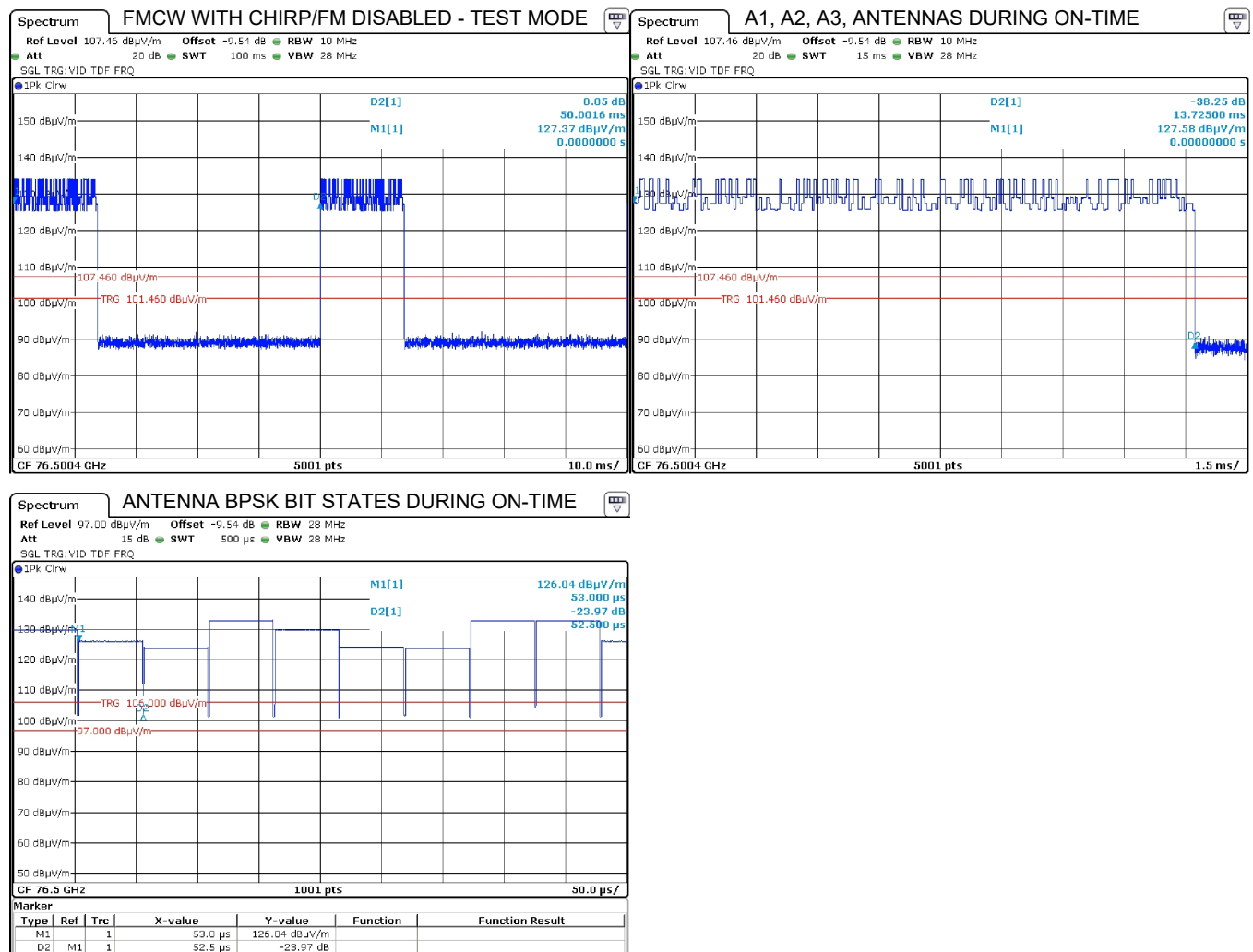


Figure 5(a): Pulsed Emission Characteristics (Duty Cycle).

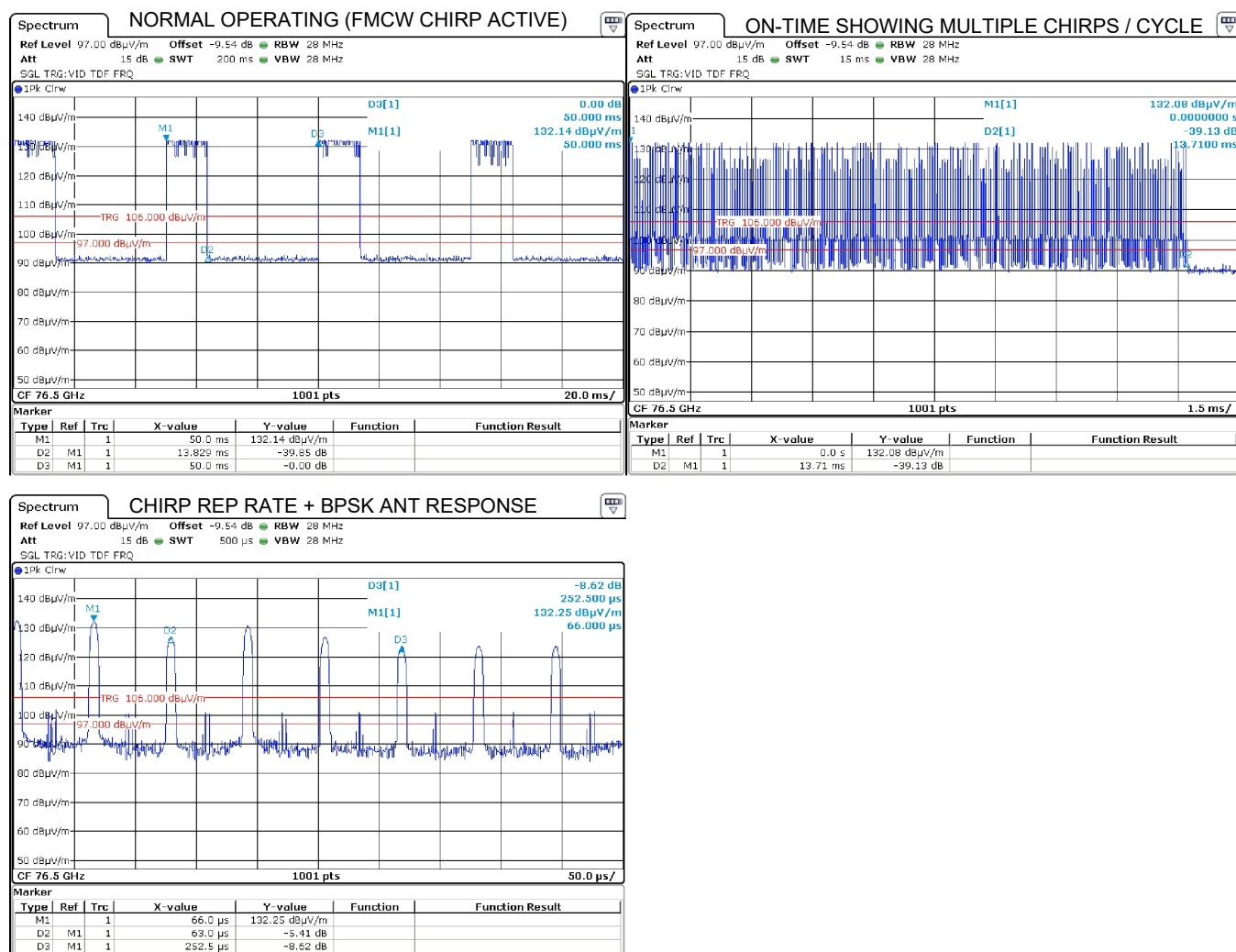


Figure 5(b): Pulsed Emission Characteristics (Duty Cycle).

4.2.2 Fundamental Emission Bandwidth

Emission bandwidth (EBW) of the EUT is measured with the device placed in the worst case test mode. Radiated emissions are recorded following the test procedures listed in Section 2.1. The 99% 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. The results of EBW testing are summarized in Table 5. Plots showing measurements employed to obtain the emission bandwidth reported are provided in Figure 6.

Table 5: Intentional Emission Bandwidth.

Det	IF Bandwidth	Video Bandwidth	Test Date:	1-Nov-19
Pk	10 MHz	28 MHz	Test Engineer:	Joseph Brunett
			EUT:	Aptiv F3TR
			Meas. Distance:	20 cm

Occupied Bandwidth									
Transmit Mode	Channel	Temperature (C)	Voltage (V)	fL* (MHz)	fL Limit (MHz)	fH* (MHz)	fH Limit (MHz)	99% OBW (MHz)	Notes/Pass/Fail
FMCW	Low	85.0	18.0	76027.8	76000.0	76416.3	77000.0	388.5	
	Low	85.0	9.0	76027.8	76000.0	76416.3	77000.0	388.5	
	Low	-40.0	18.0	76029.6	76000.0	76418.1	77000.0	388.5	
	Low	-40.0	9.0	76029.6	76000.0	76418.1	77000.0	388.5	
	Mid	20.0	12.0	76348.3	76000.0	76739.8	77000.0	391.5	
	High	85.0	18.0	76568.2	76000.0	76955.9	77000.0	387.7	
	High	85.0	9.0	76568.2	76000.0	76955.9	77000.0	387.7	
	High	-40.0	18.0	76570.0	76000.0	76957.7	77000.0	387.7	
	High	-40.0	9.0	76570.0	76000.0	76957.7	77000.0	387.7	
				fL _{MIN}	76027.8	fH _{MAX}	76957.7	OBW _{MAX}	391.5
									Pass

* Computed via CW mode frequency shift and nominal OBW measurements.

Equipment Used: RSFSV30001, MIX70TO10001, HRNW01

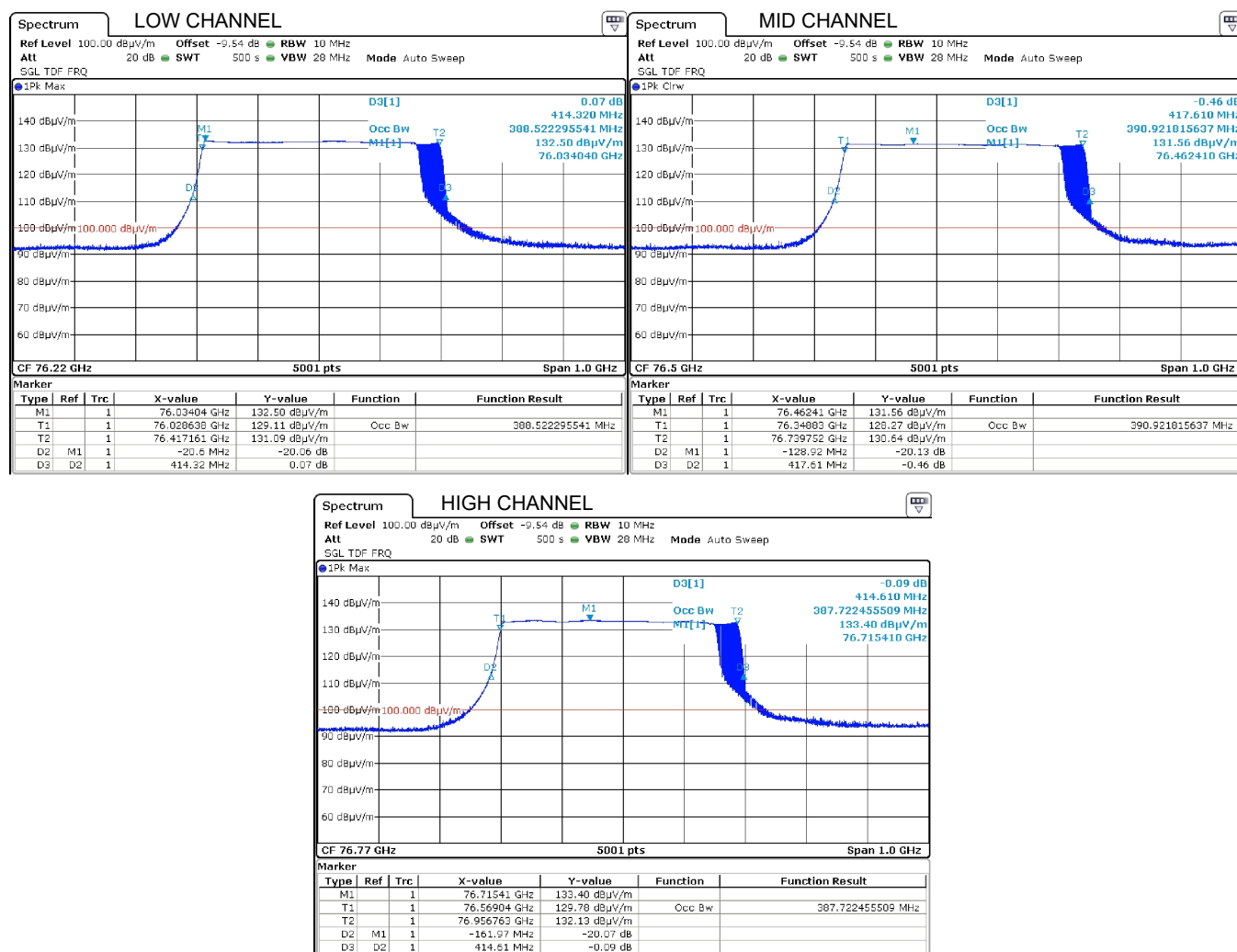


Figure 6: Intentional Emission Bandwidth.

4.2.3 Fundamental Emission

Following the test procedures listed in Section 2.1, radiated emissions measurements are made on the EUT for both Horizontal and Vertical polarized fields. Table 6 details the results of these measurements.

Table 6: Fundamental Radiated Emissions.

Frequency Range				Det		IF Bandwidth		Video Bandwidth		Test Date:	
25 MHz ≤ f ≤ 1 000 MHz				Pk/QPk		120 kHz		300 kHz		1-Nov-19	
f > 1 000 MHz				Pk		1 MHz		3 MHz		Test Engineer: Joseph Brunett	
f > 1 000 MHz				Avg (RMS)		1 MHz		3 MHz		EUT: Aptiv F3TR	
										Mode: CW, MAX ANT GAIN (A1)	
										Meas. Distance: See Table.	

#	Env.		Frequency Band		Antenna / Cable					Range Correction ⁽²⁾				E3-Field ⁽¹⁾		EIRP/MHz ⁽³⁾		EIRP/MHz Limit		Pass By	Comments
	Temp. (C)	Volt. (V)	Start MHz	Stop MHz	Ant QN	Pol. H/V	Dim. ⁽⁴⁾ cm	Ka dB/m	Kg dB	MR m	DR m	N/F m	CF dB	Pk dBuV/m	Avg dBuV/m	Pk dBm / MHz	Avg dBm / MHz	Pk dBm/MHz	Avg dBm/MHz		
1	20	12.0	76005.0	76005.0	HRNW01	H/V	5.0	45.3	41.7	3.0	3.0	1.3	0.0	130.3		35.1		55.0	50.0	14.9	max all orientations, CW mode
2	20	12.0	76500.0	76500.0	HRNW01	H/V	5.0	45.3	41.7	3.0	3.0	1.3	0.0	131.1		35.9		55.0	50.0	14.1	max all orientations, CW mode
3	20	12.0	76970.0	76970.0	HRNW01	H/V	5.0	45.3	41.5	3.0	3.0	1.3	0.0	131.4		36.2		55.0	50.0	13.8	max all orientations, CW mode
4																					

#	Mode	Decl. Freq (MHz)	Temp. (C)	E3-Field dBuV/m	Freq. Meas. (MHz)	Freq Error ppm	Volt. (V)	E3-Field dBuV/m	Freq. Meas. (MHz)	Freq Drift ppm
5	CW	76.50000	85	131.0	76.49929	9.3	18.0	131.1	76.50025	-3.3
6			80	131.1	76.49935	8.5	12.0	131.1	76.50013	-1.7
7			70	131.0	76.49955	5.9	9.0	131.1	76.50022	-2.9
8			60	131.1	76.49968	4.2				
9			50	131.1	76.49979	2.7				
10			40	131.1	76.49998	0.3				
11			30	131.1	76.50010	-1.3				
12			20	131.1	76.50013	-1.7				
13			10	131.1	76.50035	-4.6				
14			.0	131.1	76.50045	-5.9				
15			-10	131.1	76.50089	-11.6				
16			-20	131.4	76.50092	-12.0				
17			-30	131.4	76.50103	-13.5				
18			-40	131.5	76.50107	-14.0				

(1) Avg. is computed from the highest measured Peak via the worst-case Spread Duty Cycle detailed in the Duty Cycle section of this test report.

(2) CF is computed assuming a 20 dB/decade Field Decay Rate. DR is Regulatory Range Distance. MR is Measurement Distance. N/F is near-far boundary.

(3) EIRP is computed from field strength at 3 meter distance.

(4) Dimension of antenna is taken to be the larger of the test antenna and the EUT antenna; EUT antenna is 6cm in dimension.

Equipment Used: RSFSV30001, MIX70TO10001, HRNW01

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 (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

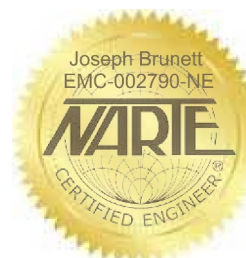


Figure 7: Accreditation Documents