

FCC / ISED Test Report

FOR:

Motive Technologies, Inc.

Model Name: LBB-3.6CA-b

Product Description:

LBB-3.6CA-b is a Vehicle Gateway. Its purpose is to act as the primary gateway between various pieces of hardware and software in a motor vehicle and the Motive Technologies database backend in the cloud.

FCC ID: 2AQM7-36B IC ID: 24516-36B

Applied Rules and Standards:

47 CFR Part 15.247 (DSS) RSS-247 Issue 2 (FHSs) & RSS-Gen Issue 5

REPORT #: EMC_KPTRK-030-22001_15.247_BT

DATE: 08-12-2022



A2LA Accredited

IC recognized # 3462B-2 CABID: US0187

CETECOM Inc.

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1 Assessment

The following device was evaluated against the applicable criteria specified in FCC rules Parts 15.247 of Title 47 of the Code of Federal Regulations and the relevant ISED Canada standard RSS-247.

No deviations were ascertained.

Company	Description	Model #
Motive Technologies, Inc.	LBB-3.6CA-b is a Vehicle Gateway. Its purpose is to act as the primary gateway between various pieces of hardware and software in a motor vehicle and the Motive Technologies database back-end in the cloud.	LBB-3.6CA-b

Responsible for Testing Laboratory:

Section	Name	Signature	
Compliance	(EMC Lab Manager)		
	Kevin Wang		

Responsible for the Report:

08-12-2022

Date

			Kris Lazarov	
_	08-12-2022	Compliance	(Test Engineer)	
	Date	Section	Name	Signature

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2 Administrative Data

2.1 Identification of the Testing Laboratory Issuing the EMC Test Report

Company Name:	CETECOM Inc.
Department:	Compliance
Street Address:	411 Dixon Landing Road
City/Zip Code	Milpitas, CA 95035
Country	USA
Telephone:	+1 (408) 586 6200
Fax:	+1 (408) 586 6299
EMC Lab Manager:	Kevin Wang
Responsible Project Leader:	Akanksha Baskaran

2.2 Identification of the Client

Client's Name:	Motive Technologies, Inc.	
Street Address:	55 Hawthorne Street #400	
City/Zip Code	San Francisco, California 94105	
Country	USA	

2.3 Identification of the Manufacturer

Manufacturer's Name:	
Manufacturers Address:	Same as Client
City/Zip Code	Same as Chefft
Country	

Test Report #:

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3 Equipment Under Test (EUT)

3.1 EUT Specifications

Model No:	LBB-3.6CA-b		
HW Version :	1		
SW Version :	75012		
FCC-ID:	2AQM7-36B		
IC-ID:	24516-36B		
FWIN:	N/A		
HVIN:	LBB-3.6CA-b		
PMN:	Vehicle Gateway		
Product Description:	LBB-3.6CA-b is a Vehicle Gateway. Its purpose is to act as the primary gateway between various pieces of hardware and software in a motor vehicle and the Motive Technologies database back-end in the cloud.		
Frequency Range / number of channels:	Nominal band: 2400 MHz – 2483.5 MHz Center to center: 2402 MHz (ch 0) – 2480 MHz (ch 78), 79 Channels		
Radio Information:	Bluetooth: Manufacture: Laird Connectivity Module name/number: LSR 450-0159R FCC ID: TFB-1003 IC ID: 5969A-1003 Type(s) of Modulation: BDR/EDR: GFSK, π /4 DQPSK, 8DPSK		
Modes of Operation:	Hopping		
Antenna Information as declared:	Antenna Type for Wi-Fi / BT Model Name: LTE Diversity with GPS & Wi-Fi Antenna Part No: CWT0031P Type & Gain: Inverted F Antenna (IFA), 1.92 dBi		
Max. declared output Powers:	Conducted Power 8.9 dBm		
Power Supply/ Rated Operating Voltage Range:	Vmin: 6 VDC/ Vnom: 12 VDC / Vmax: 32 VDC		
Operating Temperature Range	Low -20°C, Nominal 20°C, High 85°C		
Other Radios included in the device:	 ★ WLAN Manufacture: Laird Connectivity Module name/number: LSR 450-0159R FCC ID: TFB-1003 IC ID: 5969A-1003 ★ UMTS, LTE Manufacture: Sierra Wireless Module name/number: RC7612 FCC ID: N7NRC76C IC ID: 2417C-RC76C 		
Sample Revision	□Prototype Unit; □Production Unit; ■Pre-Production		
EUT Dimensions(mm)	110 X 105 X 25		

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3.2 EUT Sample details

EUT#	Serial Number	HW Version	SW Version	Notes/Comments
1	AABL36MC270022	1	75012	Radiated Emissions

3.3 Accessory Equipment (AE) details

AE#	Туре	Model	Manufacturer	Serial Number
1	Vehicle Cable	-	-	-

3.4 Test Sample Configuration

EUT Set-up #	Combination of AE used for test set up	Comments
1	EUT#1 + AE#1	A Linux tool for manipulating the BlueZ BT stack called HCltool used to configure the Bluetooth radio to low, mid and high channels provided by the client that will not be available to the end user. For radiated measurements, the internal antenna was connected.

3.5 Justification for Worst Case Mode of Operation

During the testing process, the EUT was tested with transmitter sets on mid channel. For radiated measurements, all data in this report shows the worst case between horizontal and vertical antenna polarizations and for all orientations of the EUT.

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4 Subject of Investigation

The objective of the measurements done by CETECOM Inc. was to assess the performance of the EUT according to the relevant requirements specified in FCC rules Part 15.247 of Title 47 of the Code of Federal Regulations and Radio Standard Specification RSS-247 Issue 2 of ISED Canada.

This test report is to support a new equipment authorization under the FCC ID: 2AQM7-36B, and ISED ID: 24516-36B

Testing procedures are based on ANSI C63.10:2013 including section 7.8 for FHSS systems.

5 Measurement Results Summary

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	NA	NP	Result
§15.247(b)(1) RSS-247 5.4(b)	Maximum Peak Conducted Output Power	Nominal	GFSK MID CH				Note 1 Note 2 Note 4
§15.247(d) RSS-247 5.5 RSS-Gen 8.10	Band Edge Compliance	Nominal	N/A			•	Note 1 Note 2
§15.247(a)(1) RSS-247 5.1(b)	Spectrum Bandwidth	Nominal	N/A				Note 1 Note 2
§15.247(a)(1) RSS-247 5.1(b)	Carrier Frequency Separation	Nominal	N/A			•	Note 1 Note 2
§15.247(a)(1) RSS-247 5.1(d)	Number of Hopping Channels	Nominal	N/A			•	Note 1 Note 2
§15.247(a)(1)(iii) RSS-247 5.1(d)	Time of occupancy	Nominal	N/A				Note 1 Note 2
§15.247(d) §15.209 (a) RSS-Gen 6.13	TX Spurious emissions-Radiated	Nominal	GFSK MID CH				Complies
§15.207(a) RSS-Gen 8.8	AC Conducted Emissions	Nominal	N/A		•		Note 3

Note 1: NA= Not Applicable; NP= Not Performed.

Note2: The conducted measurements are leveraged from module certification FCC ID: TFB-1003 for compliance against the applicable rules and documented in report# .316050 FHSS from LSR LLC dated 4/20/2016

Note 3: DUT does not connect to AC power mains lines.

Note 4: Limited power verification measurement was conducted before RSE testing

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6 Measurements

6.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus, with 95% confidence interval (in dB delta to result), based on a coverage factor k=1.

Measurement Sys	EMC 1	EMC 2	
Conducted emissions (mains port)	1.12 dB	0.46 dB	
Radiated emissions	(< 30 MHz)	3.66 dB	3.88 dB
	(30 MHz - 1GHz)	3.17 dB	3.34 dB
	(1 GHz – 3 GHz)	5.01 dB	4.45 dB
	(>3 GHz)	4.0 dB	4.79 dB

6.2 Environmental Conditions During Testing:

The following environmental conditions were maintained during the course of testing:

• Ambient Temperature: 20-25°C

• Relative humidity: 40-60%

6.3 Dates of Testing:

08/03/2022 - 08/18/2022

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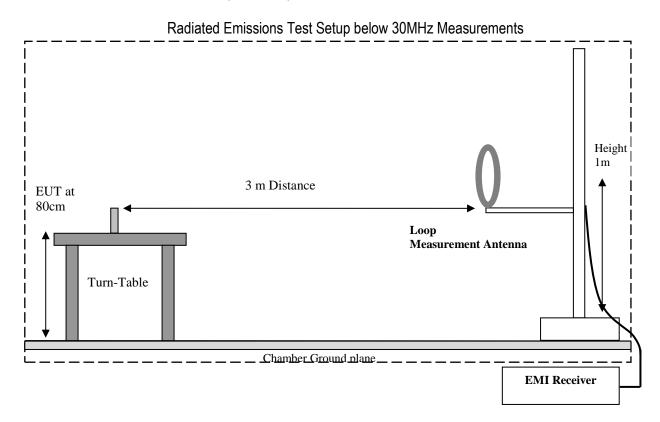


7 Measurement Procedures

7.1 Radiated Measurement

The radiated measurement is performed according to: ANSI C63.10 (2013)

- The exploratory measurement is accomplished by running a matrix of 16 sweeps over the required frequency range with R&S Test-SW EMC32 for 4 positions of the turntable, two orthogonal positions of the EUT and both antenna polarizations. This procedure exceeds the requirement of the above standards to cover the 3 orthogonal axis of the EUT. A max peak detector is utilized during the exploratory measurement. The Test-SW creates an overall maximum trace for all 12 sweeps and saves the settings for each point of this trace. The maximum trace is part of the test report.
- The 10 highest emissions are selected with an automatic algorithm of EMC32 searching for peaks in the noise floor and ensuring that broadband signals are not selected multiple times.
- The maxima are then put through the final measurement and again maximized in a 90deg range of the turntable, fine search in frequency domain and height scan between 1m and 4m.
- The above procedure is repeated for all possible ways of power supply to EUT and for all supported modulations.
- In case there are no emissions above noise floor level only the maximum trace is reported as described above.
- The results are split up into up to 4 frequency ranges due to antenna bandwidth restrictions. A magnetic loop
 is used from 9 kHz to 30 MHz, a Biconilog antenna is used from 30 MHz to 1 GHz, and two different horn
 antennas are used to cover frequencies up to 40 GHz.



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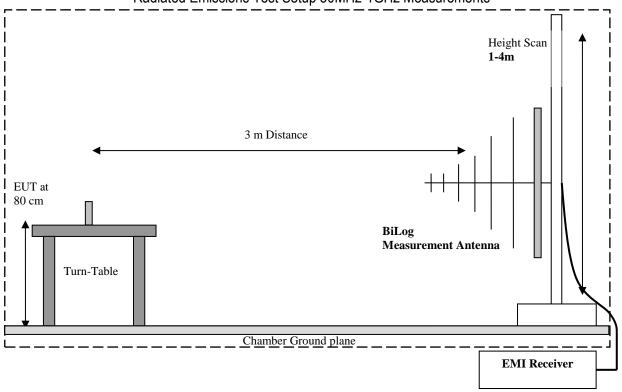
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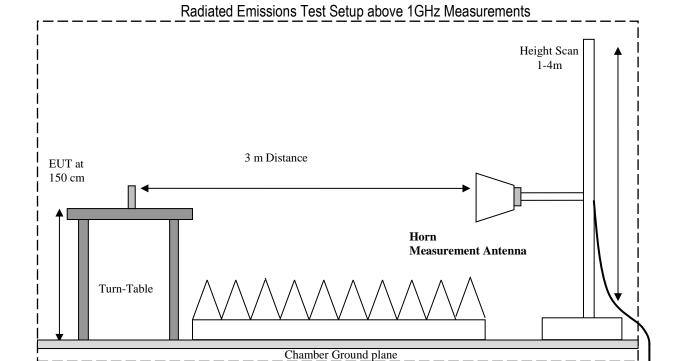
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EMI Receiver

Radiated Emissions Test Setup 30MHz-1GHz Measurements





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7.1.1 Sample Calculations for Field Strength Measurements

Field Strength is calculated from the Spectrum Analyzer/ Receiver readings, taking into account the following parameters:

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- 1. Measured reading in dBµV
- 2. Cable Loss between the receiving antenna and SA in dB and
- 3. Antenna Factor in dB/m

All radiated measurement plots in this report are taken from a test SW that calculates the Field Strength based on the following equation:

FS $(dB\mu V/m)$ = Measured Value on SA $(dB\mu V)$ + Cable Loss (dB) + Antenna Factor (dB/m)

Example:

Frequency (MHz)	Measured SA (dBµV)	Cable Loss (dB)	Antenna Factor Correction (dB)	Field Strength Result (dBµV/m)
1000	80.5	3.5	14	98.0



8 Test Result

8.1 Output Power Verification Measurement according to ANSI C63.10-2020

Spectrum Analyzer settings:

RBW ≥ DTS bandwidth.

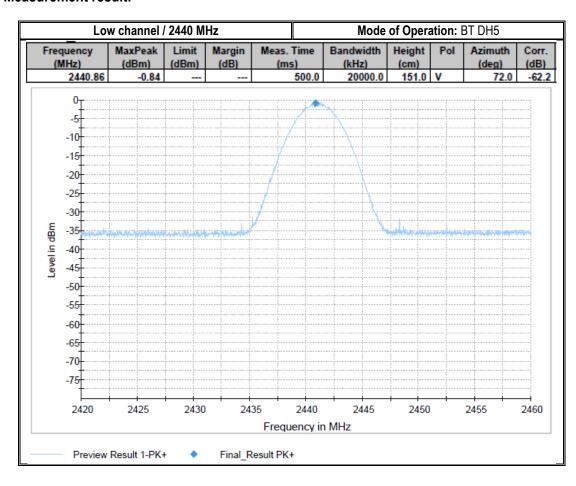
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- VBW \geq 3 x RBW
- Span ≥ [3 × RBW]
- Sweep = Auto couple
- Detector function = Peak
- Trace = Max-hold
- Use peak marker function to determine the peak amplitude level.

8.1.1 Test conditions and setup:

Ambient Temperature	EUT Set-Up #	EUT operating mode	Power Input
22°C	1	BT DH5_MID CH	12 VDC

8.1.2 Measurement result:



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8.2 Transmitter Spurious Emissions and Restricted Bands

8.2.1 Measurement according to ANSI C63.10-2020

Analyzer Settings:

- Frequency = 9 KHz 30 MHz
- RBW = 9 KHz
- Detector = Peak
- Frequency = 30 MHz 1 GHz
- Detector = Peak / Quasi-Peak
- RBW = 120 KHz (<1 GHz)
- Frequency > 1 GHz
- Detector = Peak / Average
- RBW = 1MHz
- Radiated spurious emissions shall be measured for the transmit frequencies, transmit power, and data rate
 for the lowest, middle and highest channel in each frequency band of operation and for the highest gain
 antenna for each antenna type, and using the appropriate parameters and test requirements.
- The highest (or worst-case) data rate shall be recorded for each measurement.
- For testing frequencies below 30 MHz at distance other than the specified in the standard, the limit conversion is calculated by using the FCC materials for the ANSI 63 committee issued on January, 27 1991.

8.2.2 Limits:

FCC §15.247

• 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 §15.209(a) (see §15.205(c)).

FCC §15.209 & RSS-Gen 8.9

 Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table: Test Report #:

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Frequency of emission (MHz)	Field strength (µV/m)	Measurement Distance (m)	Field strength @ 3m (dBµV/m)
0.009-0.490	2400/F(kHz) /	300	-
0.490–1.705	24000/F(kHz) /	30	-
1.705–30.0	30 / (29.5)	30	-
30–88	100	3	40 dBμV/m
88–216	150	3	43.5 dBµV/m
216–960	200	3	46 dBµV/m
Above 960	500	3	54 dBµV/m

FCC §15.205 & RSS-Gen 8.10

• Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

• Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

*PEAK LIMIT= 74 dBµV/m

*AVG. LIMIT= 54 dBµV/m

8.2.3 Test conditions and setup:

Ambient Temperature	EUT Set-Up #	EUT operating mode	Power Input
23° C	1	GFSK fixed channel	12 VDC

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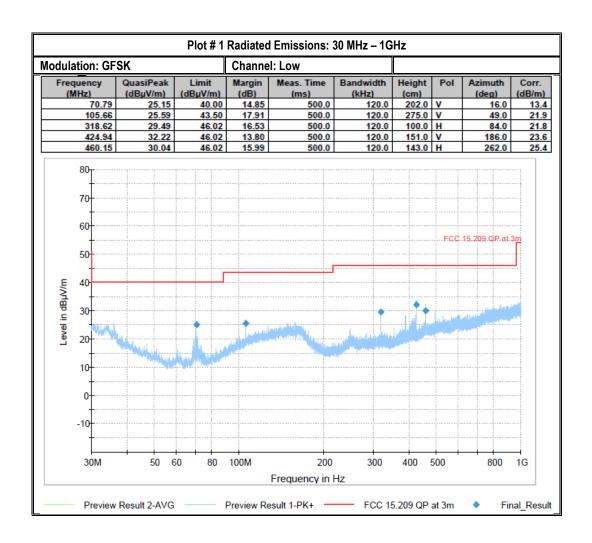
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8.2.4 Measurement result:

Plot #	Channel #	Scan Frequency	Limit	Result
1-3	Low	30 MHz – 18 GHz	See section 8.1.2	Pass
4-8	Mid	9 kHz – 26 GHz	See section 8.1.2	Pass
9-11	High	30 MHz – 18 GHz	See section 8.1.2	Pass

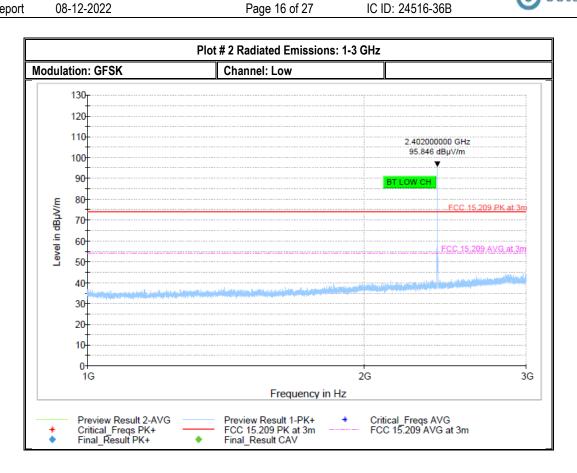
8.2.5 Measurement Plots:



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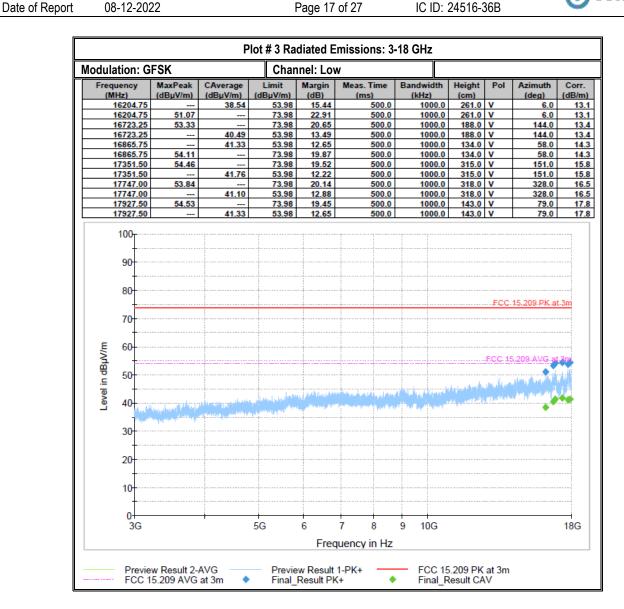


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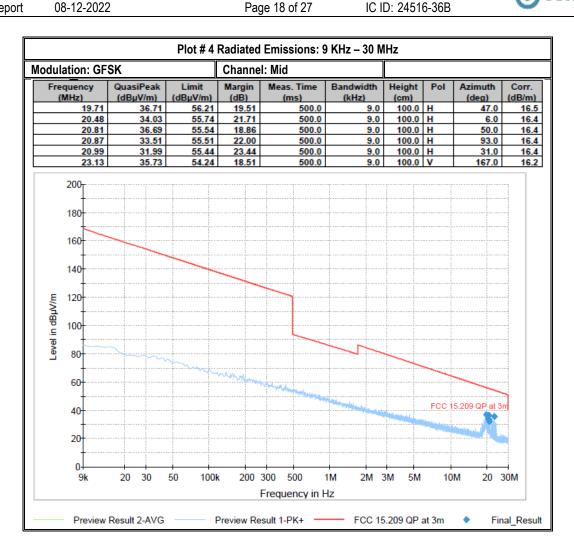




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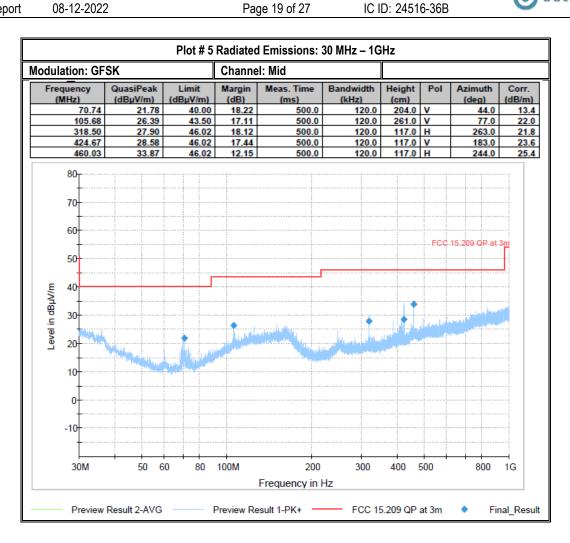




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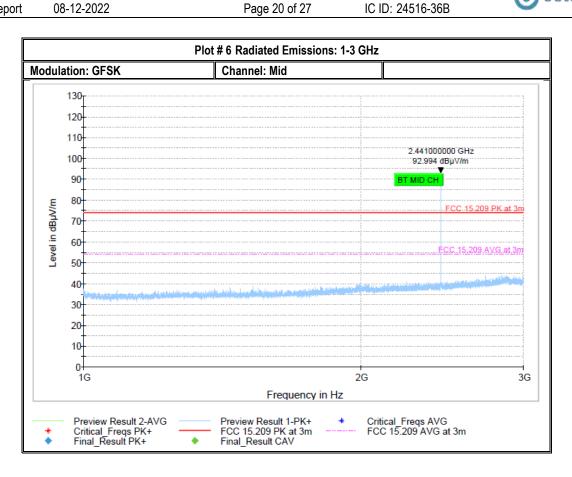
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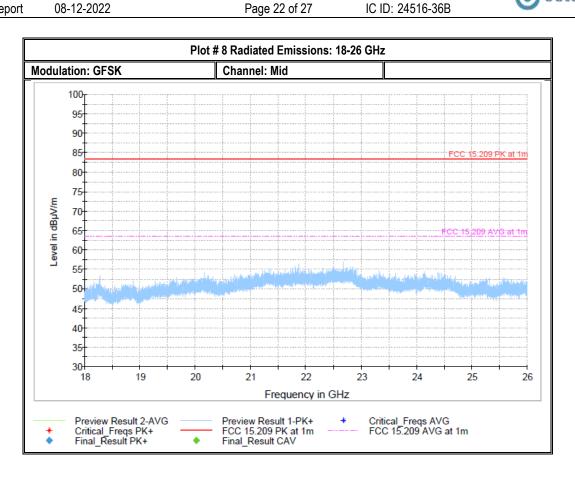
odula	tion: (GFSK		Char	nnel: Mic	k					
	iency Hz)	MaxPeak (dBuV/m)	CAverage (dBµV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (dea)	Corr (dB/r
	6107.50			73.98	24.36	500.0	1000.0	117.0	v	249.0	12
1	6107.50		37.18	53.98	16.80	500.0	1000.0	117.0	V	249.0	12
1	6312.00		39.57	53.98	14.41	500.0	1000.0	267.0		273.0	13
	6312.00			73.98	21.58	500.0	1000.0	267.0	V	273.0	13
	6862.75			73.98	19.51	500.0	1000.0	286.0	V	218.0	14
	6862.75		41.48	53.98	12.50	500.0	1000.0		V	218.0	14
	7383.00		41.55	53.98	12.43	500.0	1000.0	210.0	H	-45.0	16
	7383.00			73.98 73.98	19.88 19.65	500.0 500.0	1000.0 1000.0	210.0 259.0	H	-45.0 80.0	16 17
	7807.50		41.33	53.98	12.65	500.0	1000.0	259.0	Н	80.0	17
	7921.00		41.55	73.98	19.78	500.0	1000.0	152.0	v	40.0	17
	7921.00		41.47	53.98	12.51	500.0	1000.0	152.0	v	40.0	17
Level in dBµV/m	70 60 50								FCC 1	. 15.209 PK. a	t-3m
Levi	30	ensprender de	e lenengen (************************************					الله الدرون أفيس	<u>withing</u>		***
	20										
	10										
	0		-	— i	-		+				—i
	3G			5G	6 Free	7 8 quency in Hz	9 10G				18G

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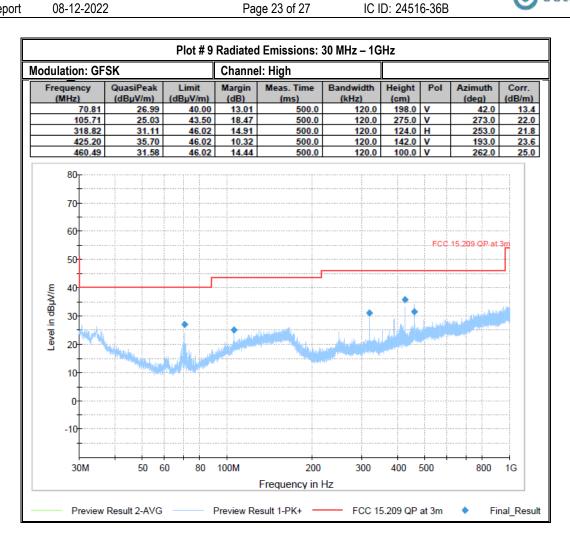




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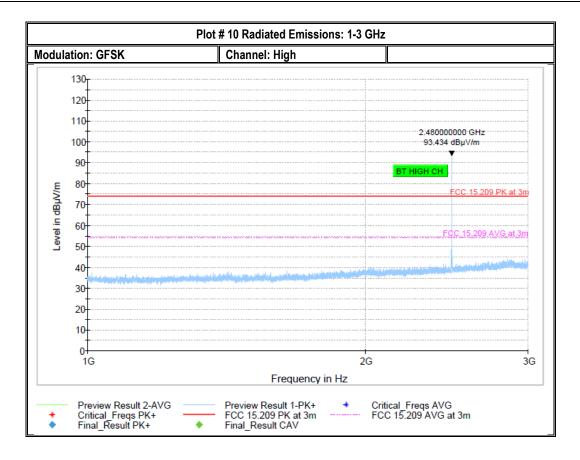


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odula	tion: G	FSK		Char	nnel: Hig	jh					
	uency Hz)	MaxPeak (dBuV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (dea)	Corr.
	14302.75		37.95	53.98	16.03	500.0	1000.0	134.0	v	340.0	8
	14302.75			73.98	23.51	500.0	1000.0	134.0	V	340.0	8
	14438.75		38.91	53.98	15.07	500.0	1000.0	188.0		259.0	9.
	4438.75	51.13		73.98	22.85	500.0	1000.0	188.0		259.0	9.
	16369.00		39.15	53.98	14.83	500.0	1000.0	251.0		-45.0	13.
	16369.00 16814.25		40.56	73.98 53.98	22.38 13.42	500.0 500.0	1000.0 1000.0	251.0 283.0		-45.0 144.0	13. 14.
	16814.25		40.56	73.98	20.04	500.0	1000.0	283.0		144.0	14.
	7341.50			73.98	20.08	500.0	1000.0	285.0		182.0	15
	17341.50		41.56	53.98	12.42	500.0	1000.0	285.0		182.0	15
1	17922.00	54.28		73.98	19.70	500.0	1000.0	294.0	Н	58.0	17.
1	17922.00		41.58	53.98	12.39	500.0	1000.0	294.0	Н	58.0	17.
Level in dBµV/m	80 70 60 50						The second second	الاستانية والمو	FCC 1	.15.209.PK a	t.3m
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	0										
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					Free	quency in Hz					

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9 Test setup photos

Setup photos are included in supporting file name: "EMC_KPTRK-030-22001_Setup_Photos.pdf"

10 Test Equipment Used For Testing

Equipment Name/Type	Manufacturer	Model	Serial #	Calibration Cycle	Last Calibration Date
EMI Receiver	Rohde & Schwarz	ESW44	101715	3 Years	9/13/2021
Signal Analyzer	Rohde & Schwarz	FSV40	101022	3 Years	9/14/2021
Active Loop antenna	ETS Lindgren	6507	161344	3 Years	10/30/2020
Loop antenna	ETS Lindgren	6512	164698	3 Years	8/14/2020
Biconlog Antenna	AH systems	BiLA2G	569	3 years	12/1/2020
Horn Antenna	EMCO	3115	35111	3 years	9/30/2021
Horn Antenna	ETS Lindgren	3117-PA	169547	3 years	9/1/2020
Horn Antenna	ETS Lindgren	3116C-PA	169535	3 years	9/30/2020
Digital Thermometer	Control Company	36934-164	191872028	3 Years	10/20/2021
Digital Barometer	VWR	10510-922	200236891	3 Years	4/13/2020

Note: Equipment used meets the measurement uncertainty requirements as required per applicable standards for 95% confidence levels. Calibration due dates, unless defined specifically, falls on the last day of the month. Items indicated "N/A" for cal status either do not specifically require calibration or is internally characterized before use.

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11 Revision History

Date	Template Revision	Changes to report	Prepared by
08-12-2022	EMC_KPTRK-030-22001_15.247_BT	Initial Version	Kris Lazarov

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