

TEST REPORT

of

FCC Part 15 Subpart C §15.209
IC RSS-210 Issue 11 and RSS-Gen Issue 5

FCC ID: TQ8-BDC-4E09
IC Certification: 5074A-BDC4E09

Equipment Under Test : Smart Key ECU
Model Name : BDC-4E09
Variant Model Name(s) : -
FCC Applicant : HYUNDAI MOBIS CO., LTD.
IC Applicant : Hyundai MOBIS Co., Ltd
Manufacturer : Hyundai MOBIS Co., Ltd.
Date of Receipt : 2025.11.07
Date of Test(s) : 2025.12.08 ~ 2026.02.24
Date of Issue : 2026.03.25

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

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- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
- 3) This test report cannot be reproduced, except in full, without prior written permission of the Company.
- 4) The data marked ※ in this report was provided by the customer and may affect the validity of the test results.

We are responsible for all the information of this test report except for the data(※) provided by the customer.

Tested by:



Finn Nam

Technical
Manager:



Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory

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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

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1.2. Details of Applicant

FCC Applicant : HYUNDAI MOBIS CO., LTD.
FCC Address : 203, Teheran-ro, Gangnam-gu, Seoul, South Korea, 135-977
IC Applicant : Hyundai MOBIS Co., Ltd
IC Address : 203, Teheran-ro, Gangnam-gu, Seoul, South Korea, 135-977
Contact Person : Choe, Seung-hoon
Phone No. : +82 31 260 0098

1.3. Details of Manufacturer

Company : Hyundai Mobis Co., Ltd.
Address : 203, Teheran-ro, Gangnam-gu, Seoul, Republic of Korea

1.4. Description of EUT

Kind of Product	Smart Key ECU
Model Name	BDC-4E09
Variant Model	-
Serial Number	Conducted: 001, Radiated: 002
Power Supply	DC 12.0 V
Frequency Range	Tx: 125.00 kHz / 433.92 MHz, Rx: 433.92 MHz
Antenna Type	Coil Antenna
Antenna Part Number	SSB Antenna: 93502-DC000 LF Antenna: 95460-L2000, 95460-L2100, 95460-L2200, 95460-L2300, 95460-L2400, 95460-L2500
H/W Version	1.03
S/W Version	2553
FVIN	N/A

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Signal Generator	R&S	SMA100B	106887	10/20/2025	Annual	10/20/2026
Spectrum Analyzer	R&S	FSV30	103210	03/21/2025	Annual	03/21/2026
DC Power Supply	Agilent	U8002A	MY48490027	12/02/2025	Annual	12/02/2026
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	10/01/2025	Biennial	10/01/2027
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB 9163	01126	03/09/2026	Biennial	03/09/2028
EMI Test Receiver	R&S	ESU26	100109	01/21/2026	Annual	01/21/2027
Spectrum Analyzer	Agilent	N9020A	MY53421758	09/10/2025	Annual	09/10/2026
Preamplifier	H.P.	8447F	2944A03909	08/07/2025	Annual	08/07/2026
Turn Table	Innco systems GmbH	DS 1200 S	N/A	N.C.R.	N/A	N.C.R.
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/38 330516/L	N.C.R.	N/A	N.C.R.
Antenna Mast	Innco systems GmbH	MA4640-XP-ET	MA4640/536/38 330516/L	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-5 m	TPC240219000 4	10/13/2025	Semi-Annual	04/13/2026
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-10 m	TPC240219000 1	10/13/2025	Semi-Annual	04/13/2026
Coaxial Cable	RFONE	PL360P-292M292M-1.5M-A	20200324002	10/10/2025	Semi-Annual	04/10/2026

Note;

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

1.6. Declarations by the manufacturer

- The transmit antennas can not operate at the same time.
- The EUT has 10 LF(125 kHz) transmit antennas, 1 RF(433.92 MHz) transmit and receive antenna.

1.7. Summary of Test Results

The EUT has been tested according to the following specifications:

Applied standard: FCC Part 15 Subpart C, IC RSS-210 Issue 11, RSS-Gen Issue 5			
Section in FCC	Section in IC	Test Item(s)	Result
15.209	RSS-210 Issue 11, 8.3, RSS-Gen Issue 5, 8.9	Radiated emission, Spurious Emission and Field Strength of Fundamental	Pass
2.1049	-	20 dB Bandwidth	Pass
-	RSS-Gen Issue 5 6.7	Occupied Bandwidth	Pass
15.207	RSS-Gen Issue 5 8.8	AC Power Line Conducted Emission	N/A ¹⁾

Note;

- 1) The AC power line test was not performed because the EUT use battery power for operation and which do not operate from the AC power lines.

1.8. Test Procedure(s)

The measurement procedures described in the American National Standard of Procedure for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2020 for FCC and ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 for ISED), as well as the guidance provided in KDB 558074 D01 15.247 Meas Guidance v05r02, were used in the measurement of the DUT.

All measurement procedures in the test report comply with both ANSI versions, with no effect on the test results.

1.9. Sample Calculation

Where relevant, the following sample calculation is provided:

Field strength level (dBμV/m) = Measured level (dBμV) + Antenna factor (dB/m) + Cable loss (dB)

1.10. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter		Uncertainty
20 dB Bandwidth		0.01 kHz
Occupied Bandwidth		0.01 kHz
Radiated Emission, 9 kHz to 30 MHz	H	3.60 dB
	V	3.60 dB
Radiated Emission, below 1 GHz	H	5.50 dB
	V	5.10 dB

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95 % level of confidence.

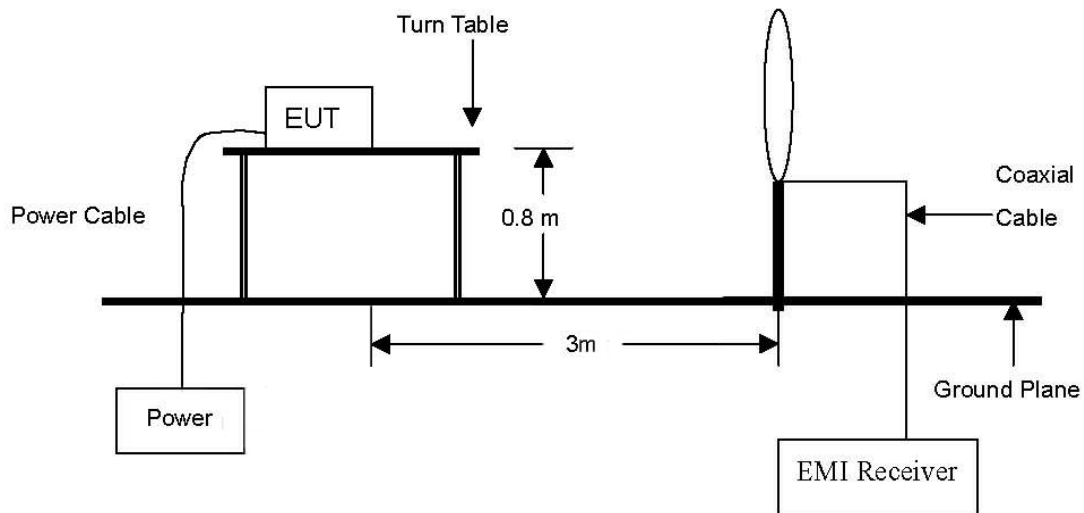
1.11. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL006805	2026.03.25	Initial

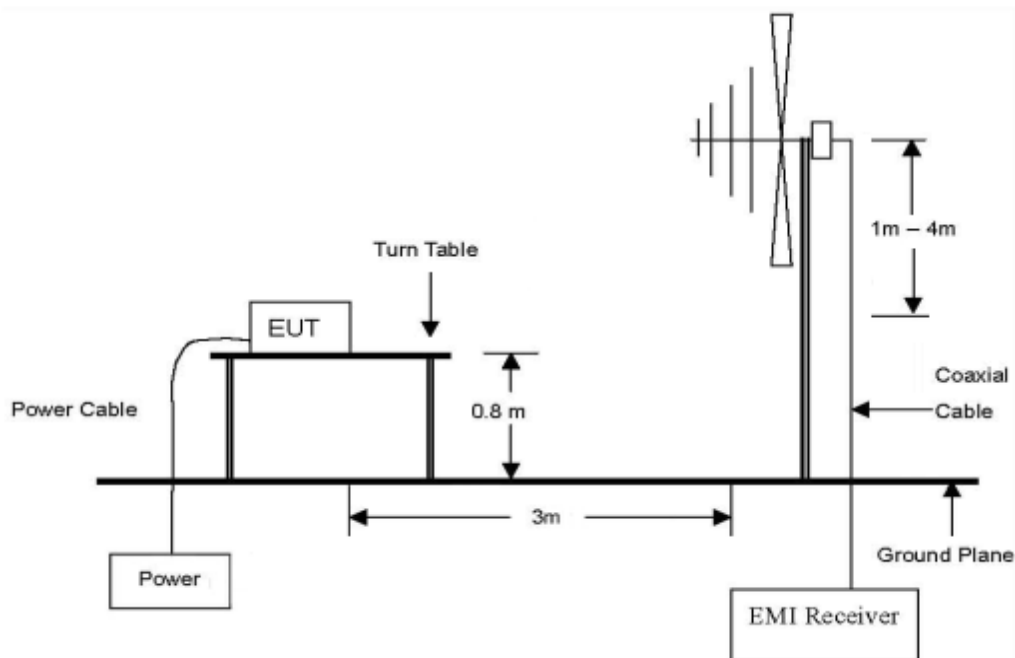
2. Field Strength of Fundamental and Spurious Emission

2.1. Test Setup

The diagram below shows the test setup that is utilized to make the measurements for emission below 30 MHz.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz.



2.2. Limits

2.2.1. FCC

According to §15.209(a), 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:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meter)
0.009-0.490	2 400/F(kHz)	300
0.490-1.705	24 000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

According to §15.209(d), The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1 000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

2.2.2. IC

According to RSS-Gen Issue 5, 8.9.

Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Table 5 - General field strength limits at frequencies above 30 MHz

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ at 3 m)
30-88	100
88-216	150
216-960	200
Above 960	500

Table 6 - General field strength limits at frequencies below 30 MHz

Frequency	Magnetic Field Strength (H-Field) ($\mu\text{A/m}$)	Measurement Distance (m)
9-490 kHz ¹	6.37/F (F in kHz)	300
490-1 705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

According to RSS-210 Issue 11, 7.3.

Transmitters whose wanted and unwanted emissions fall within the general field strength limits specified in RSS-Gen may operate licence exempt in any of the frequency bands, other than the restricted frequency bands, other than the restricted frequency bands listed in RSS-Gen and the TV bands 54-72 MHz, 76-88 MHz, 174-216 MHz and 470-602 MHz, and shall be certified under RSS-210. Under no circumstances shall the level of any unwanted emissions exceed the level of the fundamental emissions.

2.3. Test Procedures

Radiated emissions from the EUT were measured according to the dictates of ANSI C63.10-2020 (for FCC) and ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 (for ISSED).

2.3.1. Test Procedures for emission from 9 kHz to 30 MHz

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
3. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
4. The test-receiver system was set to average or quasi peak detect function and Specified Bandwidth with Maximum Hold Mode.
5. To get a maximum emission level from the EUT, the EUT is manipulated through three orthogonal planes (X, Y, Z). Worst orthogonal plan of EUT is X – axis during radiation test.

2.3.2. Test Procedures for emission from 30 MHz to 1 000 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 GHz, the EUT was set 3 meter away from the interference-receiving antenna.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.

2.4. Field Strength of Fundamental Test Result

Ambient temperature : (23 ± 1) °C
Relative humidity : 47 %

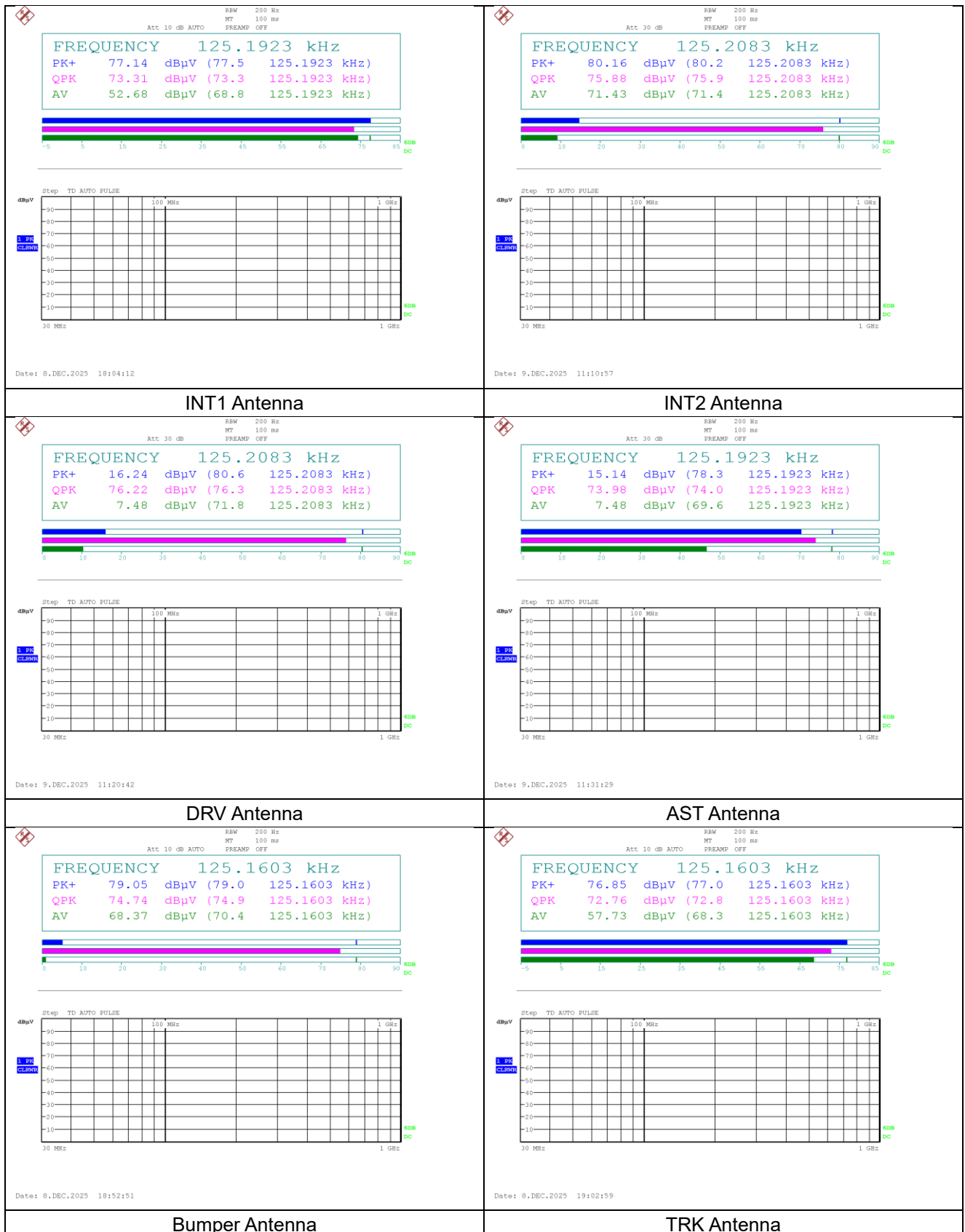
The following table shows the highest level of radiated emissions on between polarizations of horizontal and vertical.

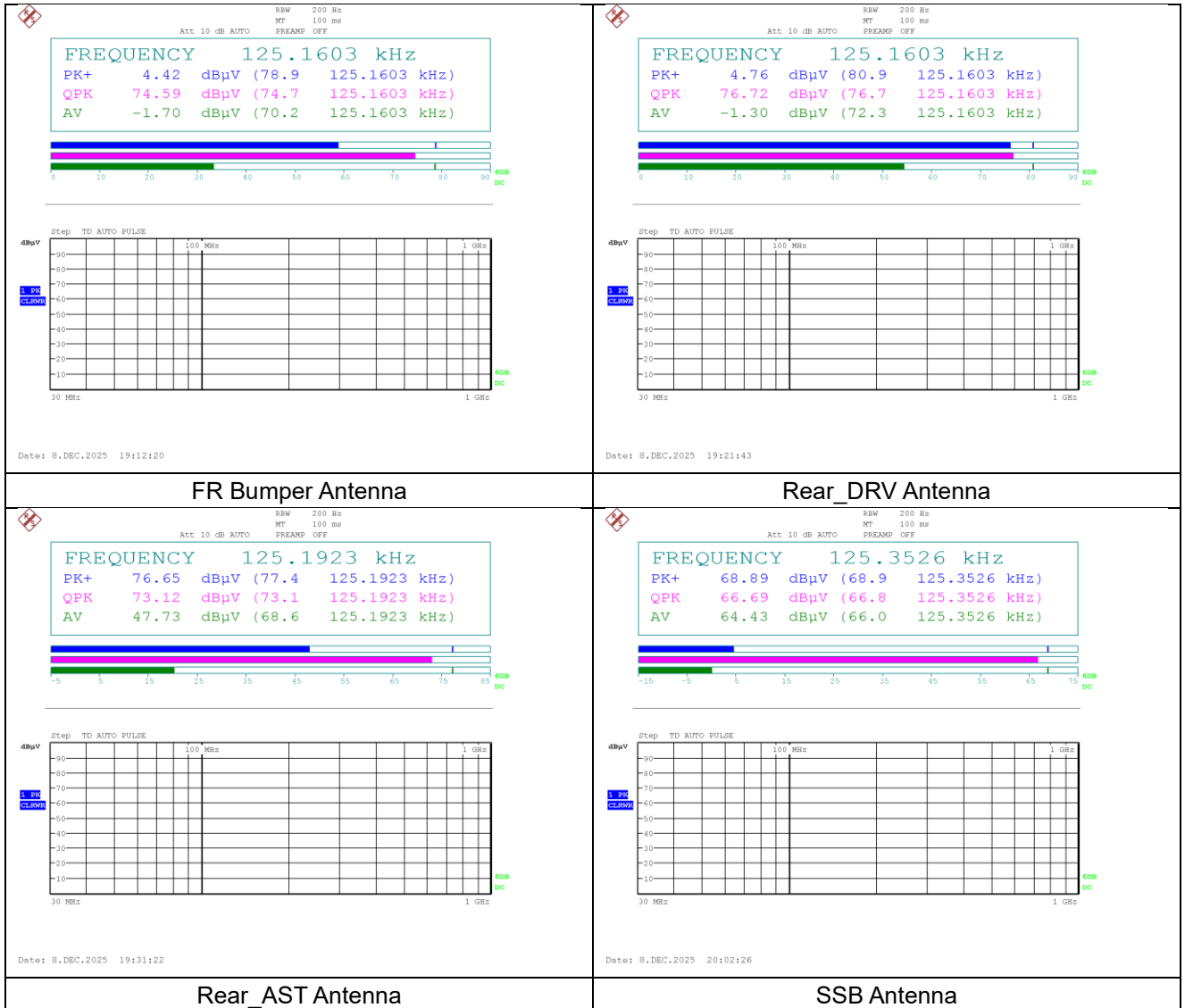
Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	Ant. (dB/m)	Cable (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 300 m	Limit (dBμV/m) at 300 m	Margin (dB)
INT1 Antenna									
0.125	68.80	Average	H	18.09	0.04	86.93	6.93	25.67	18.74
INT2 Antenna									
0.125	71.43	Average	H	18.09	0.04	89.56	9.56	25.67	16.11
DRV Antenna									
0.125	71.80	Average	H	18.09	0.04	89.93	9.93	25.67	15.74
AST Antenna									
0.125	69.60	Average	H	18.09	0.04	87.73	7.73	25.67	17.94
Bumper Antenna									
0.125	70.40	Average	H	18.09	0.04	88.53	8.53	25.67	17.14
TRK Antenna									
0.125	68.30	Average	H	18.09	0.04	86.43	6.43	25.67	19.24
FR Bumper Antenna									
0.125	70.20	Average	H	18.09	0.04	88.33	8.33	25.67	17.34
Rear_DRV Antenna									
0.125	72.30	Average	H	18.09	0.04	90.43	10.43	25.67	15.24
Rear_AST Antenna									
0.125	68.60	Average	H	18.09	0.04	86.73	6.73	25.67	18.94
SSB Antenna									
0.125	66.00	Average	H	18.09	0.04	84.13	4.13	25.67	21.54

Remark;

1. According to §15.31(f)(2), 300 m Result (dBμV/m) = 3 m Result (dBμV/m) - 40log (300/3) (dBμV/m).
2. According to §15.209(d), the measurements were tested by using Quasi peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1 000 MHz in these three bands on measurements employing an average detector.
3. The limit above was calculated based on table of §15.209(a).
4. According to ANSI C63.10-2020 (for FCC) and ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 (for ISED), For measurement below 30 MHz.
conversion factor from E-field to H-field is considered as free-space impedance [1 μV/m = (1/377 Ω) × 1 μA/m]
The FCC limits are same to the IC limits.
5. Actual (dBμV/m) at 3 m = Reading (dBμV) + AF (dB/m) + CL (dB).
6. Although multiple LF antenna part numbers are defined, all antennas are identical in design and RF characteristics; therefore, test results using a representative antenna (Part No. 95460-L2000) apply to all.

- Test plot(s)





2.5. Spurious Emission Test Result

Ambient temperature : (23 ± 1) °C
Relative humidity : 47 %

The following table shows the highest level of radiated emissions on between polarizations of horizontal and vertical.

INT1 Antenna

Below 30 MHz

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 300 m or 30 m	Limit (dBμV/m) at 300 m or 30 m	Margin (dB)
0.034	37.70	Average	H	18.29	0.03	56.02	-23.98	36.97	60.95
0.251	35.80	Average	H	18.02	0.08	53.90	-26.10	19.61	45.71

Above 30 MHz

Radiated Emissions			Ant.	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
49.64	33.04	Quasi Peak	H	-7.36	25.68	40.00	14.32
159.01	36.61	Quasi Peak	H	-11.35	25.26	43.50	18.24
276.87	41.73	Quasi Peak	H	-6.41	35.32	46.00	10.68
401.75	30.63	Quasi Peak	H	-3.48	27.15	46.00	18.85
670.69	30.20	Quasi Peak	H	0.70	30.90	46.00	15.10
Above 700.00	Not detected	-	-	-	-	-	-

INT2 Antenna

Below 30 MHz

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 300 m or 30 m	Limit (dBμV/m) at 300 m or 30 m	Margin (dB)
0.034	36.00	Average	H	18.29	0.03	54.32	-25.68	36.97	62.65
0.250	41.10	Average	H	18.03	0.08	59.21	-20.79	19.65	40.44

Above 30 MHz

Radiated Emissions			Ant.	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
49.40	33.06	Quasi Peak	H	-7.37	25.69	40.00	14.31
159.01	37.05	Quasi Peak	H	-11.35	25.70	43.50	17.80
277.11	38.84	Quasi Peak	H	-6.41	32.43	46.00	13.57
390.11	31.60	Quasi Peak	H	-3.86	27.74	46.00	18.26
574.05	32.30	Quasi Peak	H	-1.30	31.00	46.00	15.00
Above 600.00	Not detected	-	-	-	-	-	-

DRV Antenna

Below 30 MHz

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 300 m or 30 m	Limit (dBμV/m) at 300 m or 30 m	Margin (dB)
0.020	31.50	Average	H	18.65	0.04	50.19	-29.81	41.58	71.39
0.251	40.10	Average	H	18.02	0.08	58.20	-21.80	19.61	41.41

Above 30 MHz

Radiated Emissions			Ant.	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
49.40	32.83	Quasi Peak	H	-7.37	25.46	40.00	14.54
159.01	37.02	Quasi Peak	H	-11.35	25.67	43.50	17.83
276.87	41.76	Quasi Peak	H	-6.41	35.35	46.00	10.65
389.87	30.50	Quasi Peak	H	-3.87	26.63	46.00	19.37
578.66	31.85	Quasi Peak	H	-1.06	30.79	46.00	15.21
Above 600.00	Not detected	-	-	-	-	-	-

AST Antenna

Below 30 MHz

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 300 m or 30 m	Limit (dBμV/m) at 300 m or 30 m	Margin (dB)
0.021	29.70	Average	H	18.62	0.04	48.36	-31.64	41.16	72.80
0.250	40.50	Average	H	18.03	0.08	58.61	-21.39	19.65	41.04

Above 30 MHz

Radiated Emissions			Ant.	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
49.16	34.24	Quasi Peak	V	-7.37	26.87	40.00	13.13
159.01	36.26	Quasi Peak	H	-11.35	24.91	43.50	18.59
276.74	39.65	Quasi Peak	H	-6.41	33.24	46.00	12.76
327.18	35.72	Quasi Peak	H	-5.11	30.61	46.00	15.39
573.93	32.50	Quasi Peak	H	-1.31	31.19	46.00	14.81
Above 600.00	Not detected	-	-	-	-	-	-

Bumper Antenna

Below 30 MHz

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 300 m or 30 m	Limit (dBμV/m) at 300 m or 30 m	Margin (dB)
0.035	33.60	Average	H	18.29	0.03	51.92	-28.08	36.72	64.80
0.250	42.50	Average	H	18.03	0.08	60.61	-19.39	19.65	39.04

Above 30 MHz

Radiated Emissions			Ant.	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
49.40	33.80	Quasi Peak	V	-7.37	26.43	40.00	13.57
159.01	36.25	Quasi Peak	H	-11.35	24.90	43.50	18.60
275.90	36.92	Quasi Peak	H	-6.42	30.50	46.00	15.50
327.06	35.02	Quasi Peak	H	-5.11	29.91	46.00	16.09
610.91	32.15	Quasi Peak	H	0.19	32.34	46.00	13.66
Above 700.00	Not detected	-	-	-	-	-	-

TRK Antenna

Below 30 MHz

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 300 m or 30 m	Limit (dBμV/m) at 300 m or 30 m	Margin (dB)
0.034	38.10	Average	H	18.29	0.03	56.42	-23.58	36.97	60.55
0.249	38.20	Average	H	18.03	0.08	56.31	-23.69	19.68	43.37

Above 30 MHz

Radiated Emissions			Ant.	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
49.16	34.53	Quasi Peak	V	-7.37	27.16	40.00	12.84
276.87	41.27	Quasi Peak	H	-6.41	34.86	46.00	11.14
327.18	33.63	Quasi Peak	H	-5.11	28.52	46.00	17.48
613.21	32.21	Quasi Peak	H	0.19	32.40	46.00	13.60
Above 700.00	Not detected	-	-	-	-	-	-

FR Bumper Antenna

Below 30 MHz

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 300 m or 30 m	Limit (dBμV/m) at 300 m or 30 m	Margin (dB)
0.034	38.00	Average	H	18.29	0.03	56.32	-23.68	36.97	60.65
0.251	41.20	Average	H	18.02	0.08	59.30	-20.70	19.61	40.31

Above 30 MHz

Radiated Emissions			Ant.	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
49.16	32.70	Quasi Peak	V	-7.37	25.33	40.00	14.67
159.01	34.93	Quasi Peak	H	-11.35	23.58	43.50	19.92
276.87	41.21	Quasi Peak	H	-6.41	34.80	46.00	11.20
327.18	34.85	Quasi Peak	H	-5.11	29.74	46.00	16.26
613.21	33.27	Quasi Peak	H	0.19	33.46	46.00	12.54
Above 700.00	Not detected	-	-	-	-	-	-

Rear_DRV Antenna

Below 30 MHz

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 300 m or 30 m	Limit (dBμV/m) at 300 m or 30 m	Margin (dB)
0.034	36.90	Average	H	18.29	0.03	55.22	-24.78	36.97	61.75
0.251	41.10	Average	H	18.02	0.08	59.20	-20.80	19.61	40.41

Above 30 MHz

Radiated Emissions			Ant.	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
49.04	35.34	Quasi Peak	V	-7.37	27.97	40.00	12.03
159.01	36.94	Quasi Peak	H	-11.35	25.59	43.50	17.91
276.99	39.73	Quasi Peak	H	-6.41	33.32	46.00	12.68
377.26	31.68	Quasi Peak	H	-4.11	27.57	46.00	18.43
613.33	30.69	Quasi Peak	H	0.20	30.89	46.00	15.11
Above 700.00	Not detected	-	-	-	-	-	-

Rear_AST Antenna

Below 30 MHz

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 300 m or 30 m	Limit (dBμV/m) at 300 m or 30 m	Margin (dB)
0.034	37.70	Average	H	18.29	0.03	56.02	-23.98	36.97	60.95
0.250	39.20	Average	H	18.03	0.08	57.31	-22.69	19.65	42.34

Above 30 MHz

Radiated Emissions			Ant.	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
48.92	33.18	Quasi Peak	V	-7.37	25.81	40.00	14.19
159.01	36.36	Quasi Peak	H	-11.35	25.01	43.50	18.49
276.74	40.64	Quasi Peak	H	-6.41	34.23	46.00	11.77
327.18	35.46	Quasi Peak	H	-5.11	30.35	46.00	15.65
613.09	32.24	Quasi Peak	H	0.19	32.43	46.00	13.57
Above 700.00	Not detected	-	-	-	-	-	-

SSB Antenna

Below 30 MHz

Radiated Emissions			Ant.	Correction Factors		Total		Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m) at 3 m	Actual (dBμV/m) at 300 m or 30 m	Limit (dBμV/m) at 300 m or 30 m	Margin (dB)
0.034	37.70	Average	H	18.29	0.03	56.02	-23.98	36.97	60.95
0.375	24.10	Average	H	18.04	0.09	42.23	-37.77	16.12	53.89