



FCC RADIO TEST REPORT

FCC ID : LHJ-FE5NAR110
Equipment : FE5NAR110, FE5NAR111
Brand Name : Continental
Model Name : FE5NAR110, FE5NAR111
Applicant : Continental Automotive Systems, Inc.
21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Manufacturer : Continental Automotive Systems, Inc.
21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Standard : FCC 47 CFR Part 2, 27

The product was received on May 06, 2024 and testing was performed from Jul. 04, 2024 to Aug. 30, 2024. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International (USA) Inc., the test report shall not be reproduced except in full.

Approved by: Neil Kao

Sporton International (USA) Inc.
1175 Montague Expressway, Milpitas, CA 95035



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History of this test report

Report No.	Version	Description	Issue Date
FG240808005B	01	Initial issue of report	Sep. 23, 2024
FG240808005B	02	Revise Appendix A and Product Specification of Equipment Under Test This report is an updated version, replacing the report issued on Sep. 23, 2024.	Oct. 09, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 66)		
-	§27.50 (d)(5)	Peak-to-Average Ratio	-	See Note
-	§2.1049	Occupied Bandwidth	-	See Note
-	§2.1051 §27.53 (h)	Conducted Band Edge Measurement (Band 66)	-	See Note
-	§2.1051 §27.53 (h)	Conducted Spurious Emission (Band 66)	-	See Note
-	§2.1055 §27.54	Frequency Stability Temperature & Voltage	-	See Note
4.2	§2.1053 §27.53 (h)	Radiated Spurious Emission (Band 66)	Pass	31.14 dB under the limit at 10104.00 MHz

Note:

- For host device, Radiated Spurious Emission, Equivalent Isotropic Radiated Power and Effective Radiated Power are verified and complies with the limit in this test report.
- For host device, the Conducted Output Power is no difference after compared to module (Model: FE5NAR110, FE5NAR111).

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	FE5NAR110, FE5NAR111
Brand Name	Continental
Model Name	FE5NAR110, FE5NAR111
FCC ID	LHJ-FE5NAR110
Installed into the Host	Equipment name: G12N51RG1, G12N50RG1 Brand name: Continental Model name: G12N51RG1, G12N50RG1
EUT supports Radios application	WCDMA/HSPA/LTE/5G NR/GNSS
EUT Stage	Identical Prototype

Sample Information			
Sample	TA-code	L2/L5 GNSS	Band Difference
1	FE5NAR110	Support	/
2	FE5NAR111	Not Support	BOM change: depopulated passive components from the GNSS RF front-end

Remark: The above EUT's information was declared by manufacturer.

Support Band and Evaluated Information	
Supported band	B2, B4, B5, B7, B12, B13, B14, B28. B29, B30, B66, B71
Evaluated and Tested band	B66

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard			
Tx Frequency	LTE Band 66: 1710.7 MHz ~ 1779.3 MHz		
Rx Frequency	LTE Band 66: 2110.7 MHz ~ 2199.3 MHz		
Bandwidth	LTE Band 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz		
Maximum Output Power to Antenna	LTE Band 66 : 22.72 dBm LTE Band 66B : 22.81 dBm LTE Band 66C : 23.02 dBm		
Radiated EIRP	Band	Channel	EIRP (dBm)
	LTE Band 66	CH1413	22.52
	LTE Band 66B	CH132373+CH132472	22.80
	LTE Band 66C	CH132374+CH132572	23.14
Antenna Gain	<Internal Antenna>: Primary cell antenna: LTE Band 66: 4.86 dBi <External Glass Antenna (Composed by component PN: 85038208, 85038209, 85038210, 85732934)>: Primary cell antenna: LTE Band 66: 5.07 dBi <External Front Fender Antenna (Composed by component PN: 86784729, 86784728)>: Primary cell antenna: LTE Band 66: 4.55 dBi <External Conti Sharkfin Antenna Composed by component PN: 86783279)>: Primary cell antenna: LTE Band 66: 2.60 dBi		
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM		

Remark:

1. The Radiated EIRP listed in this section is only for radiated record, please refer the actual value in the Section 3.2.
2. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.



1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

Test Site	Sporton International (USA) Inc.		
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300		
Test Site No.	Sporton Site No.		
	TH01-CA	03CH01-CA <Radiation>	03CH01-CA <Radiated EIRP>
Test Engineer	Leo Liu	Ken Kuo and Leo Liu	Leo Liu
Temperature (°C)	22.7~24.5	21.4~23.9	21.9~22.9
Relative Humidity (%)	43.5~51.6	42.3~49.8	40.0~51.8

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: US1250

1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

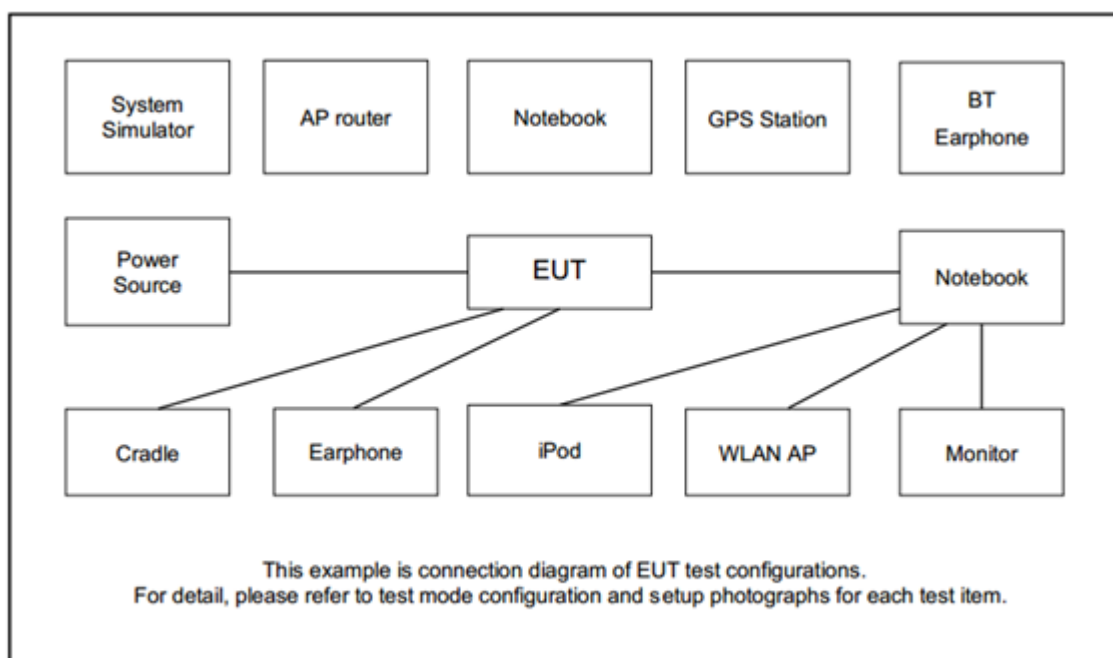
Modulation Type	Modulation
A	QPSK
B	16QAM
C	64QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C	All	1	L, M, H
EIRP	A, B, C	All	1	L, M, H
RSE	A	Maximum or less	Inner_1RB	M

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.
3. All the radiated test cases were performed with sample 1

2.2 Connection Diagram of Test System





2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 500	N/A	N/A	Unshielded, 1.8 m
2.	Power supply	GW Instek	SPS-606	N/A	N/A	N/A

2.4 Frequency List of Low/Middle/High Channels

LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775

LTE Band 66B Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10 + 10	PCC	Channel	132022	132373	135523
		Frequency	1715.0	1750.1	1765.1
	SCC	Channel	132121	133372	132622
		Frequency	1724.9	1760.0	1775.0

LTE Band 66C Channel and Frequency List_CA					
20 + 20	PCC	Channel	132072	132323	132374
		Frequency	1720.0	1745.1	1750.2
	SCC	Channel	132270	133421	132572
		Frequency	1739.8	1764.9	1770.0

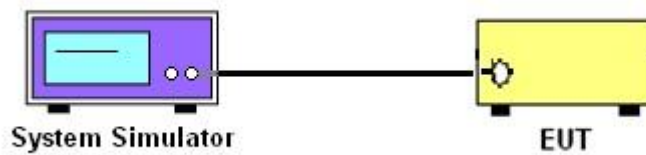
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power and EIRP

3.2.1 Description of the Conducted Output Power Measurement and EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 66

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

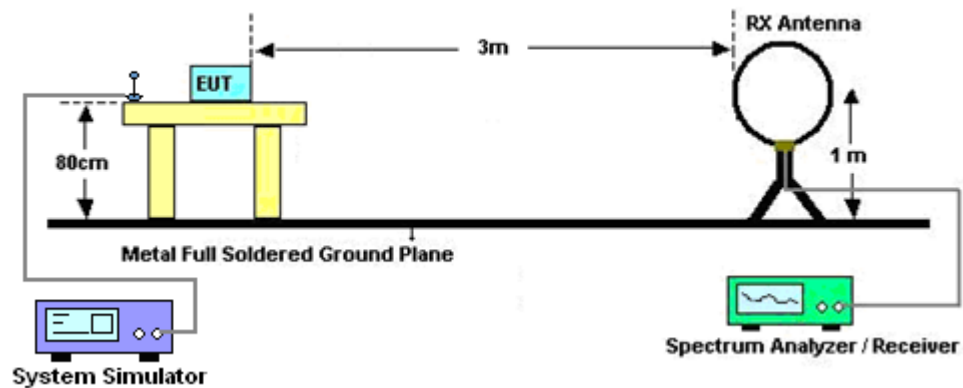
4 Radiated Test Items

4.1 Measuring Instruments

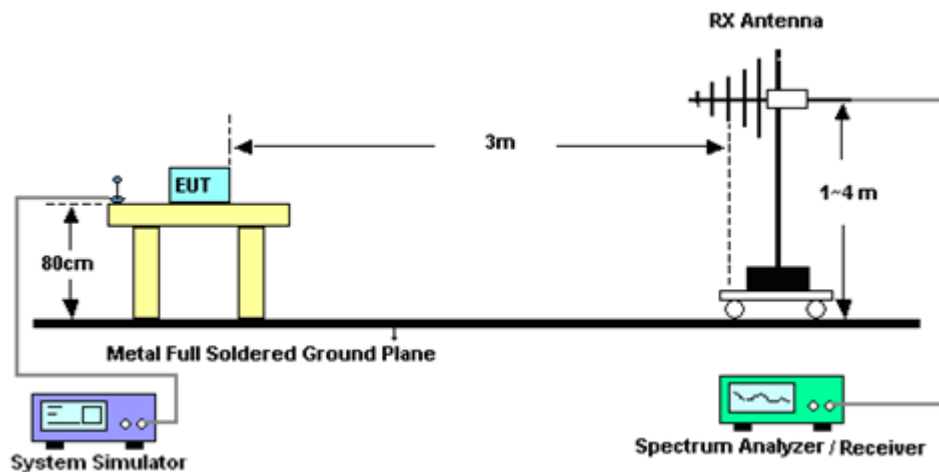
See list of measuring instruments of this test report.

4.1.1 Test Setup

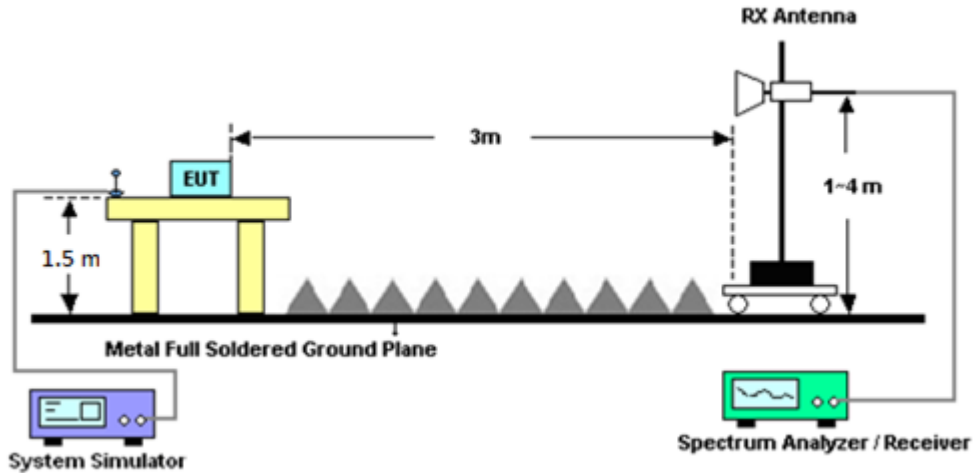
For radiated test below 30MHz



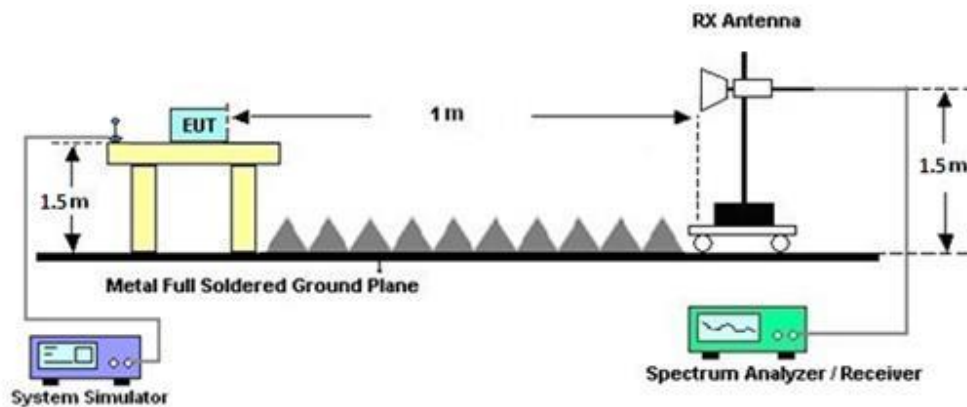
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26-2015.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
7.
$$\text{Field Strength Level (dBm)} = \text{Spectrum Reading (dBm)} + \text{Antenna Factor} + \text{Cable Loss} + \text{Read Level} - \text{Preamp Factor}.$$
8.
$$\text{ERP (dBm)} = \text{EIRP (dBm)} - 2.15$$
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	45142595	N/A	Aug. 14, 2024	Aug. 26, 2024~ Aug. 30, 2024	Aug. 13, 2025	Conducted (TH01-CA)
UXM 5G Wireless Test Platform	Keysight	E7515B	MY59321821	N/A	Oct. 29, 2023	Aug. 26, 2024~ Aug. 30, 2024	Oct. 28, 2024	Conducted (TH01-CA)
Bilog Antenna	TESEQ	6111D	54683	30MHz~1GHz	Nov. 13, 2023	Jul. 02, 2024~ Jul. 08, 2024	Nov. 12, 2024	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02115	1GHz~18GHz	Aug. 09, 2023	Jul. 02, 2024~ Jul. 08, 2024	Aug. 08, 2024	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02113	1GHz~18GHz	Apr. 26, 2024	Aug. 12, 2024	Apr. 25, 2025	Radiation (03CH01-CA)
Amplifier	SONOMA	310N	372241	9kHz~1GHz	Apr.24,2024	Jul. 02, 2024~ Jul. 08, 2024	Apr. 23,2025	Radiation (03CH01-CA)
Preamplifier	E-instrument	ERA-100M-18 G-56-01-A70	EC1900251	1GHz~18GHz	Apr. 24, 2024	Jul. 02, 2024~ Jul. 08, 2024	Apr. 23, 2025	Radiation (03CH01-CA)
Preamplifier	E-instrument	ERA-100M-18 G-56-01-A70	EC1900252	1GHz~18GHz	Apr. 25, 2024	Aug. 12, 2024	Apr. 24, 2025	Radiation (03CH01-CA)
RF Cable	HUBER+SUHNER	SUCOFLEX 102	8015932/2, 8015762/2, 804938/2	N/A	Mar. 05, 2024	Jul. 02, 2024~ Aug. 12, 2024	Mar. 04, 2025	Radiation (03CH01-CA)
Hygrometer	TESEO	608-H1	45142559	N/A	Aug. 30, 2023	Jul. 02, 2024~ Aug. 12, 2024	Aug. 29, 2024	Radiation (03CH01-CA)
Controller	Chaintek	EM-1000	060881	Control Turn Table & Antenna Mast	N/A	Jul. 02, 2024~ Aug. 12, 2024	N/A	Radiation (03CH01-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jul. 02, 2024~ Aug. 12, 2024	N/A	Radiation (03CH01-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jul. 02, 2024~ Aug. 12, 2024	N/A	Radiation (03CH01-CA)
Test Software	Audix E3	E3 230621 Sporton US,V9	PK-002093	N/A	N/A	Jul. 02, 2024~ Aug. 12, 2024	N/A	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02113	1GHz~18GHz	Apr. 26, 2024	Aug. 30, 2024	Apr. 25, 2025	Radiated EIRP (03CH01-CA)
RF Cable	HUBER+SUHNER	SUCOFLEX 102	8015932/2, 8015762/2, 804938/2	N/A	Mar. 05, 2024	Aug. 30, 2024	Mar. 04, 2025	Radiated EIRP (03CH01-CA)
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	150251	N/A	Apr. 26, 2024	Aug. 30, 2024	Apr. 25, 2025	Radiated EIRP (03CH01-CA)
UXM 5G Wireless Test Platform	Keysight	E7515B	MY59321821	N/A	Oct. 29, 2023	Aug. 30, 2024	Oct. 28, 2024	Radiated EIRP (03CH01-CA)
Hygrometer	TESEO	608-H1	45142559	N/A	Aug. 14, 2024	Aug. 30, 2024	Aug. 13, 2025	Radiated EIRP (03CH01-CA)
Controller	Chaintek	EM-1000	060881	Control Turn Table & Antenna Mast	N/A	Aug. 30, 2024	N/A	Radiated EIRP (03CH01-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Aug. 30, 2024	N/A	Radiated EIRP (03CH01-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Aug. 30, 2024	N/A	Radiated EIRP (03CH01-CA)
Test Software	Audix E3	E3 230621 Sporton US,V9	PK-002093	N/A	N/A	Aug. 30, 2024	N/A	Radiated EIRP (03CH01-CA)



6 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.70 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.50 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP/EIRP)

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 5.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.45	22.26	22.53	27.60	0.5754
20	1	0	16-QAM	21.97	22.18	22.23	27.30	0.5370
20	1	0	64-QAM	20.56	20.66	20.78	25.85	0.3846
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 5.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.63	22.50	22.60	27.70	0.5888
15	1	0	16-QAM	21.92	22.23	22.25	27.32	0.5395
15	1	0	64-QAM	20.81	21.06	20.87	26.13	0.4102
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 5.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.48	22.35	22.37	27.55	0.5689
10	1	0	16-QAM	21.66	21.40	22.00	27.07	0.5093
10	1	0	64-QAM	21.08	20.89	20.83	26.15	0.4121
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 5.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.72	22.45	22.02	27.79	0.6012
5	1	0	16-QAM	22.02	22.10	22.01	27.17	0.5212
5	1	0	64-QAM	21.11	20.94	20.89	26.18	0.4150
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 5.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.56	22.51	22.56	27.63	0.5794
3	1	0	16-QAM	21.97	22.38	21.98	27.45	0.5559
3	1	0	64-QAM	21.03	20.97	20.98	26.10	0.4074
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 5.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.64	22.57	22.48	27.71	0.5902
1.4	1	0	16-QAM	21.88	22.29	22.10	27.36	0.5445
1.4	1	0	64-QAM	21.01	20.77	20.91	26.08	0.4055
Limit	EIRP < 1W			Result			Pass	



LTE Band 66B_CA Maximum Average Power [dBm] (GT - LC = 5.07 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
10+10	1	49	1	0	QPSK	22.78	22.81	22.71	27.88	0.6138
10+10	1	49	1	0	16-QAM	21.90	21.82	21.61	26.97	0.4977
10+10	1	49	1	0	64-QAM	20.92	20.79	20.61	25.99	0.3972
Limit	EIRP < 1W					Result			Pass	

LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 5.07 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	1	99	1	0	QPSK	22.98	23.02	22.87	28.09	0.6442
20+20	1	99	1	0	16-QAM	22.10	22.07	21.84	27.17	0.5212
20+20	1	99	1	0	64-QAM	21.27	21.06	21.02	26.34	0.4305
Limit	EIRP < 1W					Result			Pass	



Appendix B. Test Results of Radiated Test

B1. Summary of each worse mode

Mode	Part	Band	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	Amp\Cbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
2	Part 27L	LTE B66	M	6944	-59.99	RMS	35.96	-53.71	0.34	-95.23	52.65	-13.00	-46.99	V	External Glass Antenna
3	Part 27L	LTE CA B66B	M	7020	-56.11	RMS	36.28	-53.00	0.34	-95.23	55.50	-13.00	-43.11	V	External Glass Antenna
4	Part 27L	LTE CA B66C	H	7035	-56.24	RMS	36.34	-52.82	0.34	-95.23	55.13	-13.00	-43.24	V	External Glass Antenna

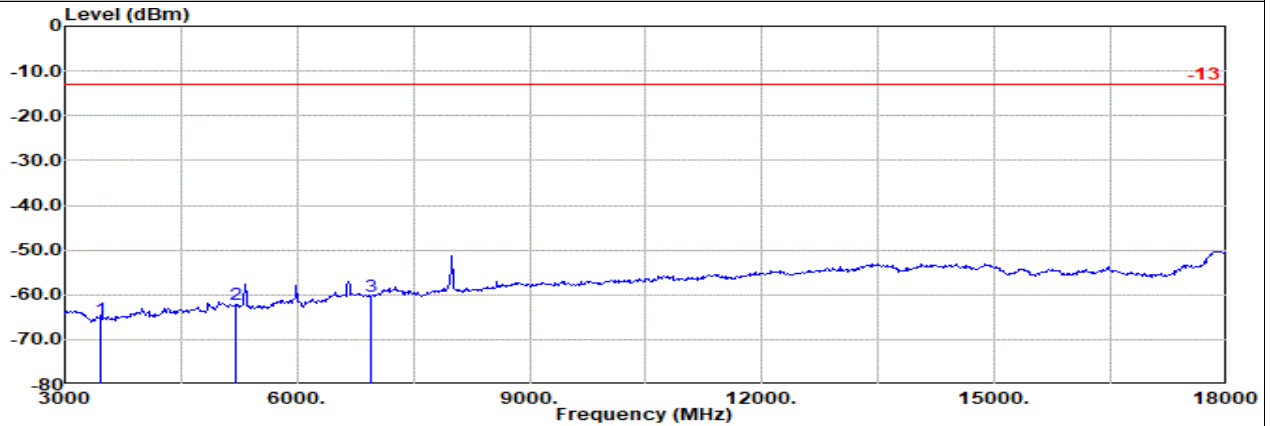


External Glass Antenna

Part 27L Mode 2

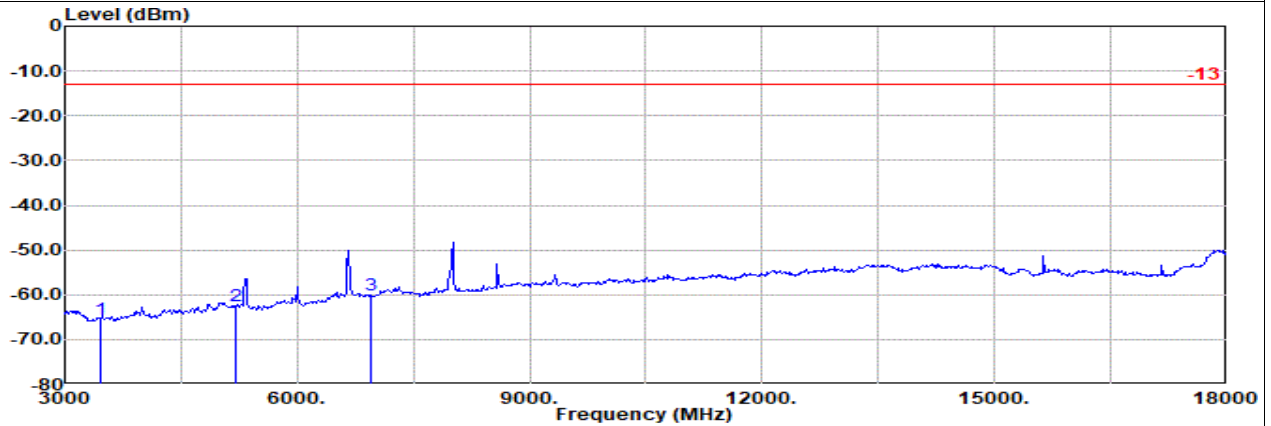
LTE B66 20M Ch132322 1RB0 QPSK

M



Site : 03CH01-CA
Condition: -13 3m HORN_02115_230809 Horizontal
: LTE Band 66 20M Ch132322 1RB0 QPSK

	Freq Level		Detector	Ant Factor	Amp\Cb		Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3472.00	-65.36	RMS	29.47	-58.39	0.99	-95.23	57.80	-13.00	-52.36	Horizontal	
2	5208.00	-62.33	RMS	32.99	-56.08	0.48	-95.23	55.51	-13.00	-49.33	Horizontal	
3	6944.00	-60.28	RMS	35.90	-53.71	0.34	-95.23	52.42	-13.00	-47.28	Horizontal	



Site : 03CH01-CA
Condition: -13 3m HORN_02115_230809 Vertical
: LTE Band 66 20M Ch132322 1RB0 QPSK

	Freq Level		Detector	Ant Factor	Amp\Cb		Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3472.00	-65.41	RMS	29.54	-58.39	0.99	-95.23	57.68	-13.00	-52.41	Vertical	
2	5208.00	-62.46	RMS	32.99	-56.08	0.48	-95.23	55.38	-13.00	-49.46	Vertical	
3	6944.00	-59.99	RMS	35.96	-53.71	0.34	-95.23	52.65	-13.00	-46.99	Vertical	

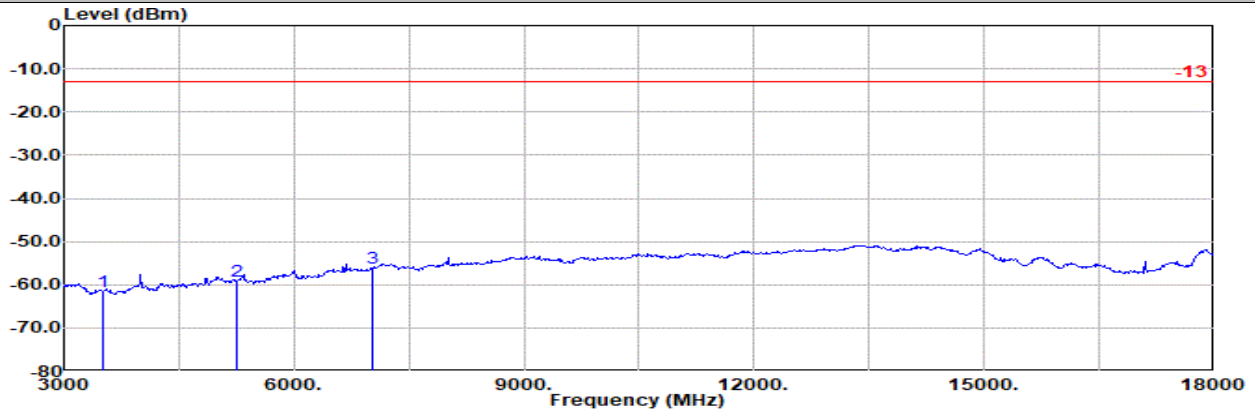


External Glass Antenna

Part 27L Mode 3

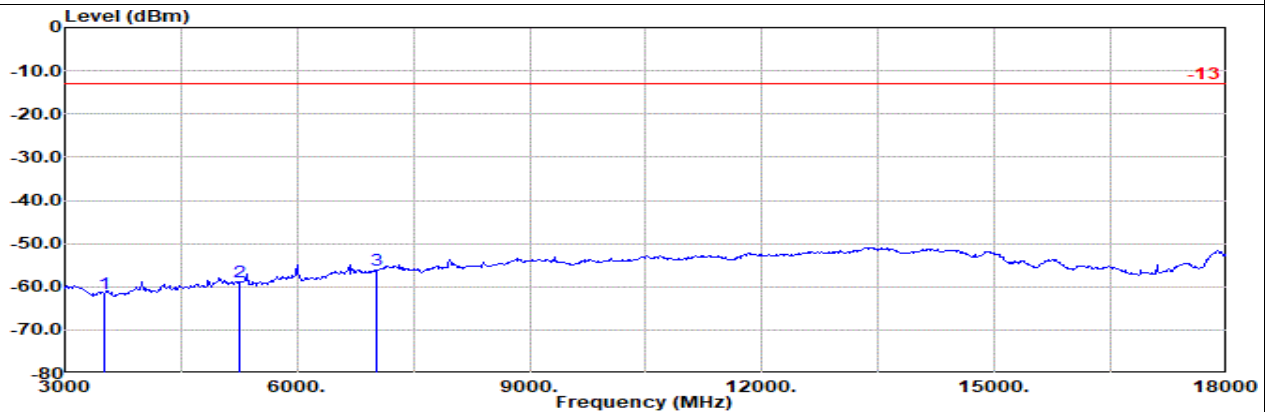
LTE CA B66B 10M + 10M Ch132373 1RB49 QPSK + Ch132472 1RB0 QPSK

M



Site : 03CH01-CA
Condition : -13 3m HORN_02113_240426 Horizontal
LTE CA B66 10M+10M :
Ch132373 1RB49 QPSK + Ch132472 1RB0 QPSK:

	Freq Level		Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3510.00	-61.47	RMS	29.59	-58.47	0.91	-95.23	61.73	-13.00	-48.47	Horizontal	
2	5265.00	-59.04	RMS	33.11	-55.75	0.40	-95.23	58.43	-13.00	-46.04	Horizontal	
3	7020.00	-56.13	RMS	36.18	-53.00	0.34	-95.23	55.58	-13.00	-43.13	Horizontal	



Site : 03CH01-CA
Condition : -13 3m HORN_02113_240426 Vertical
LTE CA B66 10M+10M :
Ch132373 1RB49 QPSK + Ch132472 1RB0 QPSK:

	Freq Level		Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3510.00	-61.44	RMS	29.62	-58.47	0.91	-95.23	61.73	-13.00	-48.44	Vertical	
2	5265.00	-58.85	RMS	33.15	-55.75	0.40	-95.23	58.58	-13.00	-45.85	Vertical	
3	7020.00	-56.11	RMS	36.28	-53.00	0.34	-95.23	55.50	-13.00	-43.11	Vertical	

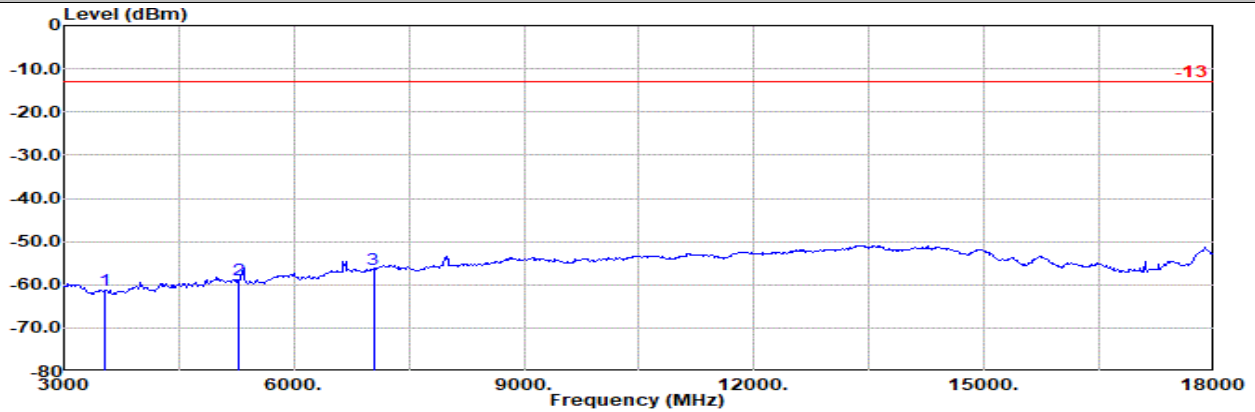


External Glass Antenna

Part 27L Mode 4

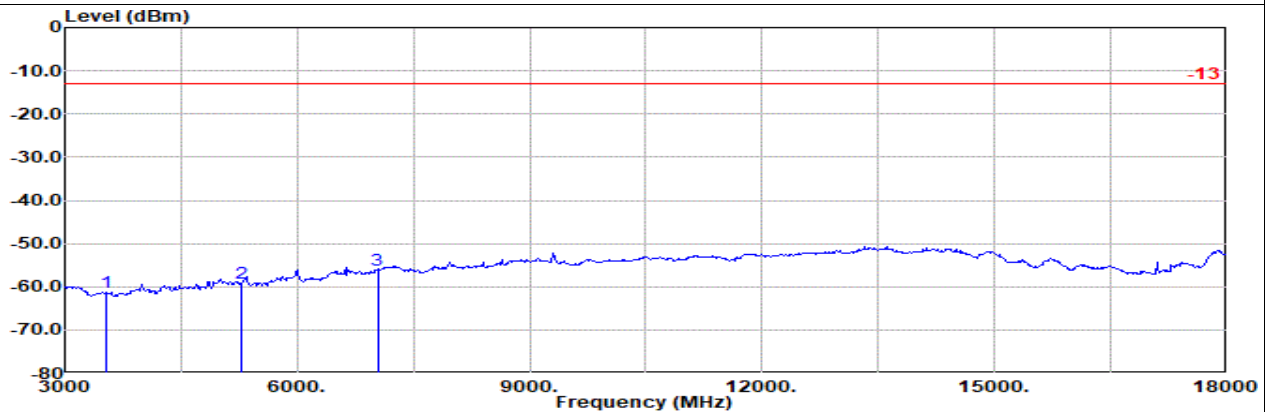
LTE CA B66C 20M + 20M Ch132374 1RB99 QPSK + Ch132572 1RB0 QPSK

H



Site : 03CH01-CA
Condition : -13 3m HORN_02113_240426 Horizontal
LTE CA B66 20M+20M :
Ch132374 1RB99 QPSK + Ch132572 1RB0 QPSK:

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm			1			g			
1	3525.00	-61.33	RMS	29.59	-58.47	0.90	-95.23	61.87	-13.00	-48.33	Horizontal
2	5280.00	-58.84	RMS	33.10	-55.65	0.41	-95.23	58.53	-13.00	-45.84	Horizontal
3	7035.00	-56.45	RMS	36.25	-52.82	0.34	-95.23	55.01	-13.00	-43.45	Horizontal



Site : 03CH01-CA
Condition : -13 3m HORN_02113_240426 Vertical
LTE CA B66 20M+20M :
Ch132374 1RB99 QPSK + Ch132572 1RB0 QPSK:

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm			1			g			
1	3525.00	-61.35	RMS	29.62	-58.47	0.90	-95.23	61.83	-13.00	-48.35	Vertical
2	5280.00	-59.08	RMS	33.15	-55.65	0.41	-95.23	58.24	-13.00	-46.08	Vertical
3	7035.00	-56.24	RMS	36.34	-52.82	0.34	-95.23	55.13	-13.00	-43.24	Vertical