

Report No.: FG2O0623-01G



FCC RADIO TEST REPORT

FCC ID : VUIMD100 Equipment : Module

Brand Name : PEGATRON Model Name : MD100-Q62

Applicant : PEGATRON CORPORATION

5F., NO. 76, LIGONG ST., BEITOU DISTRICT, TAIPEI CITY, Taiwan

Manufacturer : PEGATRON CORPORATION

5F., NO. 76, LIGONG ST., BEITOU DISTRICT, TAIPEI CITY, Taiwan

Standard : FCC 47 CFR Part 2, 90(R)

The product was received on Mar. 16, 2023 and testing was performed from Mar. 28, 2023 to May 05, 2023. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E 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 Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Louis Win

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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History of this test report

Report No. : FG2O0623-01G

Report No.	Version	Description	Issue Date
FG2O0623-01G	01	Initial issue of report	May 24, 2023

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
3.2	§90.542 (a)(7)	Effective Radiated Power	Pass	-
-	-	Peak-to-Average Ratio	-	See Note
-	§2.1049	Occupied Bandwidth	-	See Note
-	§2.1053 §90.543 (e)(2)	Conducted Band Edge Measurement	-	See Note
-	§2.1051 §90.210 (n)	2.1051 Emission Mask -		See Note
-	§2.1053 §90.543 (e)(3)	§2.1053 Conducted Spurious Emission -		See Note
-	§2.1055 Frequency Stability §90.539 (e) Temperature & Voltage		-	See Note
4.2	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission	Pass	16.06 dB under the limit at 1576.000 MHz

Note:

- 1. The certified module (model: VUIMD100).
- 2. The conducted power has been verified to be consistent with the original modular certification, therefore, the conducted signal test will be re-used.
- 3. To perform a spot check on the radiated spurious emission of the host.

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.
- 2. 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.

Reviewed by: Sheng Kuo Report Producer: Lucy Wu

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1 General Description

1.1 Product Feature of Equipment Under Test

	Product Feature								
General Specs									
LTE/5G NR.									
Antenna Type WWAN: PIFA Antenna									
Installed into Host	Equipment Name: 5G Dongle Brand Name: PEGATRON Model Name: MD100-Q62								
Antenna Gain	<ant. 3=""></ant.> 5G NR n14: -3.09 dBi								

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Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Site

Test Site	Sporton International Inc. EMC & W	/ireless Communications Laboratory			
	No.52, Huaya 1st Rd., Guishan Dist	t.,			
Test Site Location	Taoyuan City 333, Taiwan (R.O.C.)				
rest one Education	TEL: +886-3-327-3456				
	FAX: +886-3-328-4978				
Test Site No.	Sporton Site No.				
Test Site No.	TH03-HY	03CH07-HY			
Test Engineer	Luffy Lin	Jesse Wang, Stan Hsieh and Ken Wu			
Temperature (°C)	23.5~24.1	22.6~25.8			
Relative Humidity (%)	48~52	53.2~63.4			

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

FCC Designation No.: TW1190

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1.4 Applied Standards

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

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- ANSI C63.26-2015
- FCC 47 CFR Part 2, Part 90(R)
- ANSI / TIA-603-E
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- 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.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

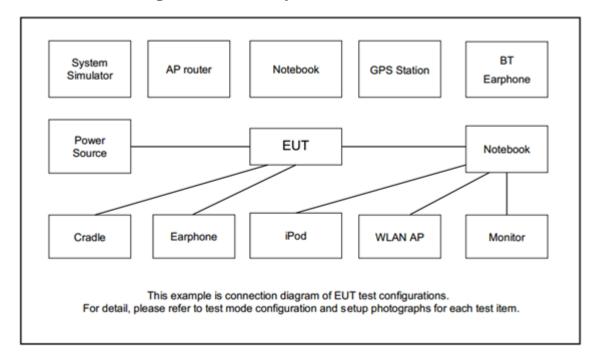
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

Conducted			Ва	ndwid	lth (M	Hz)			l	Modulati	on			RB#		Tes	t Cha	nnel
Conducted Test Cases	Band	1.4	3	5	10	15	20	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	М	н
Max. Output Power	n14	1	•	>	>	-	-	v	v	v	v	v	>	v	v	v	v	v
E.R.P	n14	1	,	v	v	-	-	v	v	v	v	٧	Max. Power					
Radiated Spurious Emission	n14	,	,	v	v	-	-	v					v			v	٧	v
Remark	2. Ti 3. Ti ur	ne mai ne dev	k "-" r ice is fferen	neans invest	that th igated	nis baı from	ndwidt 30MH	h is not s z to 10 ti	supporte mes of f	undamer	ntal signa	I for radia						

2.2 Connection Diagram of Test System



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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	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
2.	Adapter	PHILIPS	DLP6341C	N/A	N/A	N/A

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2.4 Frequency List of Low/Middle/High Channels

	5G NR n14 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest						
10	Channel	-	158600	-						
10	Frequency	-	793							
F	Channel	158100	158600	159100						
5	Frequency	790.5	793	795.5						

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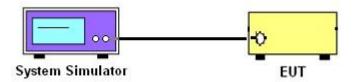
3 **Conducted Test Items**

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.

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3.2 Conducted Output Power Measurement and ERP

3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

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

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The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n14.

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 base station.
- 2. Set EUT at maximum power through base station.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

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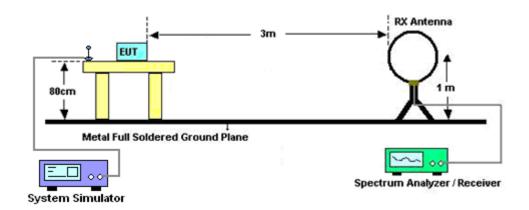
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

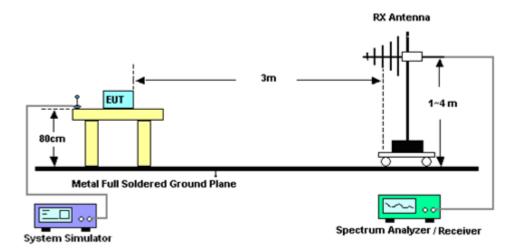
4.1.1 Test Setup

For radiated test below 30MHz



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For radiated test from 30MHz to 1GHz



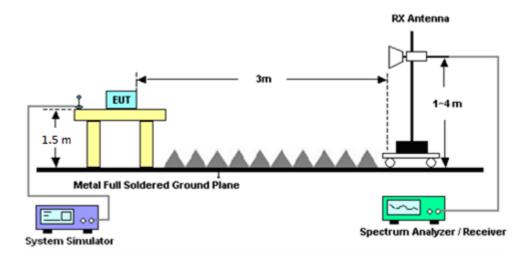
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For radiated test above 1GHz



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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.

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4.2 Radiated Spurious Emission

4.2.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. 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.

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For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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 / TIA-603-E Section 2.2.12.

- 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, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 11. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Apr. 25, 2023~ May 05, 2023	Sep. 19, 2023	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 23, 2023	Apr. 25, 2023~ May 05, 2023	Apr. 22, 2024	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 01, 2022	Apr. 25, 2023~ May 05, 2023	Nov. 30, 2023	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 20, 2023	Apr. 25, 2023~ May 05, 2023	Apr. 19, 2024	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 03, 2022	Apr. 25, 2023~ May 05, 2023	Oct. 02, 2023	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Mar. 24, 2023	Apr. 25, 2023~ May 05, 2023	Mar. 23, 2024	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 21, 2022	Apr. 25, 2023~ May 05, 2023	Jul. 20, 2023	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 28, 2023	Apr. 25, 2023~ May 05, 2023	Mar. 27, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682/4	30MHz to 18GHz	Feb. 22, 2023	Apr. 25, 2023~ May 05, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4	9kHz to 18GHz	Feb. 22, 2023	Apr. 25, 2023~ May 05, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4	9kHz to 18GHz	Feb. 22, 2023	Apr. 25, 2023~ May 05, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 22, 2023	Apr. 25, 2023~ May 05, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 20, 2023	Apr. 25, 2023~ May 05, 2023	Apr. 19, 2024	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Apr. 25, 2023~ May 05, 2023	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Apr. 25, 2023~ May 05, 2023	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Apr. 25, 2023~ May 05, 2023	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Apr. 25, 2023~ May 05, 2023	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Apr. 25, 2023~ May 05, 2023	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 14, 2023	Apr. 25, 2023~ May 05, 2023	Mar. 13, 2024	Radiation (03CH07-HY)
Horn Antenna	ETS-Lindgren	3117	00143261	1GHz~18GHz	Feb. 24, 2023	Apr. 25, 2023~ May 05, 2023	Feb. 23, 2024	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Nov. 24, 2022	Apr. 25, 2023~ May 05, 2023	Nov. 23, 2023	Radiation (03CH07-HY)
Signal Generator	Anritsu	MG3710A	6261943042	2G / 3G / LTE / 5G FR1	May 23, 2022	Apr. 25, 2023~ May 05, 2023	May 22, 2023	Radiation (03CH07-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	NA	Nov. 17, 2022	Mar. 28, 2023~ Apr. 13, 2023	Nov. 16, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262116730	LTE	Jun. 15, 2022	Mar. 28, 2023~ Apr. 13, 2023	Jun. 14, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262134933	FR1	Jun. 13, 2022	Mar. 28, 2023~ Apr. 13, 2023	Jun. 12, 2023	Conducted (TH03-HY)

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6 Measurement Uncertainty

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

Confidence of 95% (U = 2Uc(y))

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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3 E0 4B
Confidence of 95% (U = 2Uc(y))	3.50 dB

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power and ERP)

	NR n14 Maximum Average Power [dBm] (GT - LC = -3.09 dB)											
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)				
5	1	1		22.68	22.70	22.74						
5	1	23		22.67	22.64	22.61						
5	12	6	PI/2 BPSK	22.74	22.69	22.71						
5	1	0	PI/2 BP3K	22.18	22.21	22.23						
5	1	24		22.12	22.13	22.12						
5	25	0		22.18	22.17	22.18	17.51	0.0564				
5	1	1		22.68	22.72	22.74		0.0304				
5	1	23		22.67	22.56	22.61						
5	12	6	QPSK	22.75	22.65	22.74						
5	1	0	QFSK	21.76	21.72	21.75						
5	1	24		21.67	21.62	21.66						
5	25	0		21.73	21.68	21.74						
5	1	1	16-QAM	21.75	21.67	21.72						
5	1	1	64-QAM	20.45	20.37	20.46	16.51	0.0448				
5	1	1	256-QAM	17.75	17.71	17.66						
Limit		ERP < 3V	V		Result		Pa	ISS				

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NR n14 Maximum Average Power [dBm] (GT - LC = -3.09 dB)									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)	
10	1	1		-	22.75	-	17.51	0.0564	
10	1	50	PI/2 BPSK	-	22.62	-			
10	25	12		-	22.69	1			
10	1	0		-	22.25	ı			
10	1	51		-	22.12	ı			
10	50	0		-	22.21	ı			
10	1	1		ı	22.74	ı			
10	1	50	QPSK	-	22.73	1			
10	25	12		-	22.74	-			
10	1	0		-	21.75	ı			
10	1	51		-	21.54	-			
10	50	0		ı	21.68	ı			
10	1	1	16-QAM	-	21.73	-			
10	1	1	64-QAM	-	20.44	-	16.49	0.0446	
10	1	1	256-QAM	-	17.86	-			
Limit	Limit ERP < 3W			Result			Pass		

Appendix B. Test Results of Radiated Test

<Ant. 3>

5G NR n14

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5G NR n14/ 5MHz / PI/2 BPSK										
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	1576	-59.31	-42.15	-17.16	-71.79	-61.3	0.95	5.09	Н	
	2368	-55.70	-13	-42.70	-73.82	-57.3	1.25	5.00	Н	
	3152	-57.68	-13	-44.68	-77.41	-60.5	1.50	6.47	Н	
									Н	
									Н	
Lowest									Н	
Lowest	1576	-58.61	-42.15	-16.46	-71.45	-60.6	0.95	5.09	V	
	2368	-55.80	-13	-42.80	-73.84	-57.4	1.25	5.00	V	
	3152	-56.78	-13	-43.78	-77.28	-59.6	1.50	6.47	V	
									V	
									V	
									V	
	1584	-58.93	-42.15	-16.78	-71.46	-60.9	0.95	5.06	Н	
	2376	-54.87	-13	-41.87	-72.55	-56.5	1.25	5.03	Н	
NA: dalla	3160	-57.24	-13	-44.24	-77.04	-60.1	1.50	6.50	Н	
									Н	
									Н	
									Н	
Middle	1584	-58.63	-42.15	-16.48	-71.62	-60.6	0.95	5.06	V	
	2376	-55.47	-13	-42.47	-73.63	-57.1	1.25	5.03	V	
	3160	-57.04	-13	-44.04	-77.19	-59.9	1.50	6.50	V	
									V	
									V	
									V	

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-42.15 -17.18 -71.64 1584 -59.33 -61.3 0.95 5.06 Н 2384 -55.45 -13 -42.45 -73.37 -57.1 1.25 5.05 Н 3176 -13 -44.38 -77.15 1.50 Н -57.38 -60.3 6.57 Н Н Н Highest ٧ 1584 -59.23 -42.15 -17.08 -72.18 -61.2 0.95 5.06 -74.48 ٧ 2384 -56.55 -13 -43.55 -58.2 1.25 5.05 3176 -56.78 -13 -43.78 -77.15 -59.7 1.50 6.57 ٧ ٧ ٧ ٧

Report No.: FG2O0623-01G

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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5G NR n14/ 10MHz / PI/2 BPSK										
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
Middle	1576	-59.31	-42.15	-17.16	-71.76	-61.3	0.95	5.09	Н	
	2368	-55.60	-13	-42.60	-73.46	-57.2	1.25	5.00	Н	
	3152	-57.48	-13	-44.48	-77.18	-60.3	1.50	6.47	Н	
									Н	
									Н	
									Н	
	1576	-58.21	-42.15	-16.06	-71.15	-60.2	0.95	5.09	V	
	2368	-55.90	-13	-42.90	-73.66	-57.5	1.25	5.00	V	
	3152	-56.88	-13	-43.88	-77.16	-59.7	1.50	6.47	V	
									V	
									V	
									V	

Report No. : FG2O0623-01G

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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