

Report No.: FG082501A



FCC RADIO TEST REPORT

FCC ID : B94HNC10C4TKR Equipment : Convertible PC

Brand Name : HP

Model Name : HSN-C10C-4

Applicant : HP Inc.

1501 Page Mill Road, Palo Alto CA 94304 USA

Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

The product was received on Aug. 24, 2020 and testing was started from Oct. 06, 2020 and completed on Oct. 12, 2020. 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 variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

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Report No.	Version	Description	Issued Date
FG082501A	01	Initial issue of report	Jan. 20, 2021

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
	§2.1046	Conducted Output Power		
	§22.913 (a)(2)	Effective Radiated Power (WCDMA Band V)	Not Dogwins	
-	§24.232 (c)	Equivalent Isotropic Radiated Power (WCDMA Band II)	Not Required	-
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)		
-	§24.232 (d)	Peak-to-Average Ratio	Not Required	-
-	§2.1049 §22.917 (b) §24.238 (b) §27.53 (g)	Occupied Bandwidth (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	V) (WCDMA Band II) Not Required -	
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Not Required	-
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Emission (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Not Required	-
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Not Required	-
3.4	§2.1053 §22.917 (a) §24.238 (a) §27.53 (h)	Field Strength of Spurious Radiation (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	Under limit 42.17 dB at 2509.000 MHz

Note:

- 1. Not required means after assessing, test items are not necessary to carry out.
- 2. This is a variant report by changing CPU and Model name. All the test cases were performed on original report which can be referred to Sporton Report Number FG030919-04A.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang Report Producer: Celery Wei

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1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE/5G NR, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC, and GNSS.

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Product Specification subjective to this standard					
MANANI Medule	Brand Name: FOXCONN				
WWAN Module	Model Name: T99W175				
	WWAN				
	<ant. 1="">: PIFA Antenna</ant.>				
	<ant. 2="">: PIFA Antenna (Rx only)</ant.>				
	<ant. 3="">: PIFA Antenna</ant.>				
	<ant. 4="">: PIFA Antenna (Rx only)</ant.>				
Antenna Type	WLAN				
	<ant. 1="">: PIFA Antenna</ant.>				
	<ant. 2="">: PIFA Antenna</ant.>				
	Bluetooth: PIFA Antenna				
	GPS/Glonass/BDS/Galileo: PIFA Antenna				
	NFC: Loop Antenna				

WWAN Antenna Information NB Mode						
Antenna Part Number	Manufacture	Antenna Type	Peak Gain (dBi)			
			824-849MHz -1.42 dBi (peak)			
			880-915MHz -1.89 dBi (peak)			
			1710-1785MHz -1.67 dBi (peak)			
			1850-1910MHz -2.43 dBi (peak)			
			1920-1980MHz -1.44 dBi (peak)			
			704-716MHz -1.25 dBi (peak)			
			746-756MHz -2.26 dBi (peak)			
Tx1 Main Antenna			777-787MHz -1.63 dBi (peak)			
AUP6Y-100015	AWAN	PIFA	832-862MHz -1.45 dBi (peak)			
(DC33002DS00)			1710-1755MHz -1.54 dBi (peak)			
			2305-2315MHz -2.12 dBi (peak)			
			2570-2620MHz -3.68 dBi (peak)			
			2300-2400MHz -0.94 dBi (peak)			
			2500-2570MHz -2.12 dBi (peak)			
			3400-3600MHz -2.05 dBi (peak)			
			3600-3800MHz -2.99 dBi (peak)			
			5150-5925MHz -0.62 dBi (peak)			
			1710-1785MHz 0.95 dBi (peak)			
			1805-1880MHz 0.34 dBi (peak)			
			1850-1915MHz 1.39 dBi (peak)			
MIMO3 Antenna			1920-1980MHz 0.13 dBi (peak)			
AXP6Y-100004	AWAN	PIFA	1930-1995MHz 0.18 dBi (peak)			
(DC33002DS30)			2110-2200MHz -0.91 dBi (peak)			
			2300-2400MHz -0.40 dBi (peak)			
			2496-2690MHz -1.10 dBi (peak)			
			3300-4200MHz -1.9 dBi (peak)			

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	WWAN Antenna Information TB Mode							
Antenna Part Number	Manufacture	Antenna Type	Peak Gain (dBi)					
			824-849MHz -4.39 dBi (peak)					
			880-915MHz -4.51 dBi (peak)					
			1710-1785MHz -2.98 dBi (peak)					
			1850-1910MHz -1.38 dBi (peak)					
			1920-1980MHz 0.48 dBi (peak)					
			704-716MHz -4.33 dBi (peak)					
			746-756MHz -4.97 dBi (peak)					
Tx1 Main Antenna			777-787MHz -2.02 dBi (peak)					
AUP6Y-100015	AWAN	PIFA	832-862MHz -4.63 dBi (peak)					
(DC33002DS00)			1710-1755MHz -2.76 dBi (peak)					
			2305-2315MHz -2.14 dBi (peak)					
			2570-2620MHz -3.23 dBi (peak)					
			2300-2400MHz -1.13dBi (peak)					
			2500-2570MHz -2.04 dBi (peak)					
			3400-3600MHz -1.46 dBi (peak)					
			3600-3800MHz -2.45 dBi (peak)					
			5150-5925MHz 1.39 dBi (peak)					
			1710-1785MHz -0.49 dBi (peak)					
			1805-1880MHz -2.07 dBi (peak)					
			1850-1915MHz -1.56 dBi (peak)					
MIMO3 Antenna			1920-1980MHz -3.04 dBi (peak)					
AXP6Y-100004	AWAN	PIFA	1930-1995MHz -3.52 dBi (peak)					
(DC33002DS30)			2110-2200MHz -4.53 dBi (peak)					
			2300-2400MHz -0.83 dBi (peak)					
			2496-2690MHz -2.22 dBi (peak)					
			3300-4200MHz -4.87 dBi (peak)					

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1.2 Modification of EUT

No modifications are made to the EUT during all test items.

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1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory					
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855					
Test Site No.	Sporton Site No.					
rest site No.	03CH13-HY					
Test Engineer	Daniel Lee, Jacky Hong and Wilson Wu					
Temperature	21.5~25.5°ℂ					
Relative Humidity	49.5~55.5%					

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

FCC Designation No.: TW0007

1.4 Applicable Standards

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

- + ANSI C63.26-2015
- ANSI / TIA-603-E
- FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

- **1.** All test items were verified and recorded according to the standards and without any deviation during the test.
- 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 were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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For radiated measurement, pre-scanned in Tablet Type (three orthogonal panels, X, Y, Z) and Notebook Type. The worst cases (Notebook Type) were recorded in this report.

Radiated emissions were investigated as following frequency range:

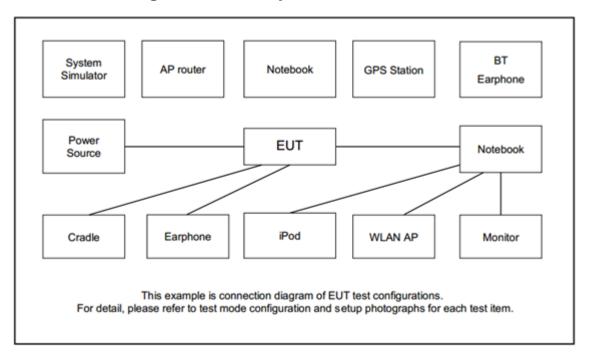
1. 30 MHz to 19100 MHz for WCDMA Band II

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

	Test Modes						
Band	Radiated TCs						
WCDMA Band II	■ RMC 12.2Kbps Link						

2.2 Connection Diagram of Test System



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2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	Earphone	SONY	MH750	N/A	N/A	N/A

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2.4 Frequency List of Low/Middle/High Channels

Frequency List						
Band Channel/Frequency(MHz) Lowest Middle Highest						
WCDMA	Channel	9262	9400	9538		
Band II	Frequency	1852.4	1880.0	1907.6		

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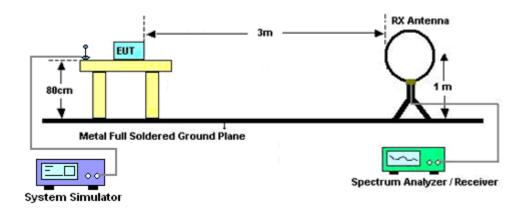
3 Radiated Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

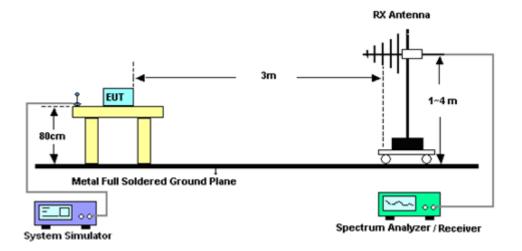
3.2 Test Setup

For radiated test below 30MHz



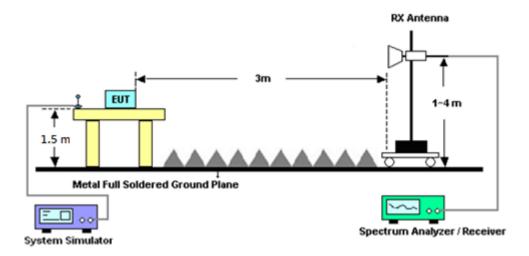
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For radiated test from 30MHz to 1GHz



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For radiated test above 1GHz



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3.3 Test Result of Radiated Test

Please refer to Appendix A.

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 a comparison data 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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3.4 Field Strength of Spurious Radiation Measurement

3.4.1 Description of Field Strength of Spurious Radiated Measurement

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.

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3.4.2 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 rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the 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 for the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking 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. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	Sonoma-Instru ment	310 N	187282	9KHz~1GHz	Dec. 17, 2019	Oct. 06, 2020~ Oct. 12, 2020	Dec. 16, 2020	Radiation (03CH13-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 09, 2020	Oct. 06, 2020~ Oct. 12, 2020	Jan. 08, 2021	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&07	30MHz to 1GHz	Apr. 29, 2020	Oct. 06, 2020~ Oct. 12, 2020	Apr. 28, 2021	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	41912 & 07	30MHz to 1GHz	Apr. 29, 2020	Oct. 06, 2020~ Oct. 12, 2020	Apr. 28, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-121 2	1GHz ~ 18GHz	May 20, 2020	Oct. 06, 2020~ Oct. 12, 2020	May 19, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-124 1	1GHz ~ 18GHz	Jul. 15, 2020	Oct. 06, 2020~ Oct. 12, 2020	Jul. 14, 2021	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 19, 2020	Oct. 06, 2020~ Oct. 12, 2020	May 18, 2021	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY532701 47	1GHz~26.5GHz	Oct. 28, 2019	Oct. 06, 2020~ Oct. 12, 2020	Oct. 27, 2020	Radiation (03CH13-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Feb. 15, 2020	Oct. 06, 2020~ Oct. 12, 2020	Feb. 14, 2021	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY553705 26	10Hz~44GHz	Mar. 20, 2020	Oct. 06, 2020~ Oct. 12, 2020	Mar. 19, 2021	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Oct. 06, 2020~ Oct. 12, 2020	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Oct. 06, 2020~ Oct. 12, 2020	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Oct. 06, 2020~ Oct. 12, 2020	N/A	Radiation (03CH13-HY)
Software	Audix	E3 6.2009-8-24	RK-00099 2	N/A	N/A	Oct. 06, 2020~ Oct. 12, 2020	N/A	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Oct. 06, 2020~ Oct. 12, 2020	Dec. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 12, 2020	Oct. 06, 2020~ Oct. 12, 2020	Feb. 21, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 12, 2020	Oct. 06, 2020~ Oct. 12, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 25, 2020	Oct. 06, 2020~ Oct. 12, 2020	Feb. 24, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30M~40GHz	Mar. 12, 2020	Oct. 06, 2020~ Oct. 12, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/ 4	30M-18G	Feb. 12, 2020	Oct. 06, 2020~ Oct. 12, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz~30MHz	Mar. 12, 2020	Oct. 06, 2020~ Oct. 12, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Dec. 10, 2019	Oct. 06, 2020~ Oct. 12, 2020	Dec. 09, 2020	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 980	18GHz~40GHz	Jan. 10, 2020	Oct. 06, 2020~ Oct. 12, 2020	Jan. 09, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN2	3GHz High Pass Filter	Jul. 13, 2020	Oct. 06, 2020~ Oct. 12, 2020	Jul. 12, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-108 0-1200-15000 -60SS	SN3	1.2GHz High Pass Filter	Jul. 02, 2020	Oct. 06, 2020~ Oct. 12, 2020	Jul. 01, 2021	Radiation (03CH13-HY)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.10
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.12
Confidence of 95% (U = 2Uc(y))	

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	2 77
Confidence of 95% (U = 2Uc(y))	3.77

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Appendix A. Test Results of Radiated Test

WCDMA1900

WCDMA 1900											
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
Lowest	3707	-55.58	-13	-42.58	-76.18	-65.88	1.98	12.28	Н		
	5555	-52.82	-13	-39.82	-76.38	-62.95	2.14	12.28	Н		
	7410	-47.40	-13	-34.40	-75.61	-55.39	2.17	10.16	Н		
	3707	-55.24	-13	-42.24	-76.37	-65.54	1.98	12.28	V		
	5555	-52.27	-13	-39.27	-76.45	-62.40	2.14	12.28	V		
	7410	-47.58	-13	-34.58	-75.75	-55.57	2.17	10.16	V		
Middle	3760	-55.24	-13	-42.24	-75.99	-65.48	2.01	12.24	Н		
	5640	-52.86	-13	-39.86	-76.51	-63.13	2.12	12.40	Н		
	7520	-47.42	-13	-34.42	-75.27	-55.38	2.11	10.07	Н		
	3760	-55.10	-13	-42.10	-76.34	-65.34	2.01	12.24	V		
	5640	-51.86	-13	-38.86	-76.14	-62.13	2.12	12.40	V		
	7520	-47.96	-13	-34.96	-75.7	-55.92	2.11	10.07	V		
Highest	3812	-55.22	-13	-42.22	-76.08	-65.40	2.03	12.21	Н		
	5723	-52.23	-13	-39.23	-76.29	-62.64	2.10	12.51	Н		
	7627	-48.04	-13	-35.04	-75.33	-56.38	2.11	10.46	Н		
	3812	-54.47	-13	-41.47	-75.81	-64.65	2.03	12.21	V		
	5723	-51.85	-13	-38.85	-76.47	-62.26	2.10	12.51	V		
	7627	-48.42	-13	-35.42	-75.76	-56.76	2.11	10.46	V		

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

——THE END——

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