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TEST REPORT

Test Result :	PASS *
Date of Issue:	December 5, 2024
Date of Test:	November 15, 2024 to December 4, 2024
Date of Receipt:	November 14, 2024
Standards:	FCC 47 CFR Part 15, Subpart C 15.225
FCC ID:	2AH25NP52
Trade Mark:	SUNMI
*	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Model No.:	NP521, NP522
EUT Description:	Separate Monitor
Address of Manufacturer:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer:	Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Applicant:	Shanghai Sunmi Technology Co.,Ltd.
Application No.:	SUCR2411000458AT

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Hayley Zhang

Cloud Peng

Prepared by: Hayley Zhang/ Project Manager

Approved by: Cloud Peng/ **Technical Manager**

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Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		December 5, 2024		Original

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1 Test Summary

Test Item	FCC Rules No.	Test Method	Test Result	Result
Antenna Requirement	15.203		Clause 3.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 3.3	PASS
20dB Spectrum Bandwidth & 99% emission bandwidth	15.215(c)	ANSI C63.10 2013 Section 6.9.3	Clause 3.4	PASS
Frequency Stability	15.225(e)	ANSI C63.10 2013 Section 6.8	Clause 3.5	PASS
Field Strength of Fundamental Emissions	15.225(a)(b)(c)	ANSI C63.10 2013 Section 6.4.7	Clause 3.6	PASS
Radiated Spurious Emissions	15.225(d)/15.209	ANSI C63.10 2013 Section 6.4/6.5	Clause 3.7	PASS

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General Information 2

2.1 Details of Client

Applicant:	Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer:	Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China

2.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, King-p Li

2.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

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2.4 General Description of EUT

EUT Description:	Separate Monitor
Model No.:	NP521, NP522
Trade Mark:	SUNMI
Hardware Version:	USBLCD_MB2_V2.0
Software Version:	1.0.0
Power Supply:	24V
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Internal Antenna
Remark:	

1. The difference between the two models is only in size, with NP522 measuring 15.6 inches and NP521 measuring 10.1 inches, everything else is exactly the same.

2. As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

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2.5 Test Environment

Environment Parameter	101.0 kPa Selected	Values During Tests
Relative Humidity	44-46 % F	RH Ambient
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	24

2.6 Description of Support Units

The EUT has been tested as an independent unit.

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3 Test results and Measurement Data

3.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The antenna of the EUT are permanently attached.

3.2 Worst-case configuration and mode

The fundamental of the EUT was investigated under three orthogonal orlentations X, Y, and Z. The X orientation was determined to be the worst-case orientation.

Although these tests were performed ther than open area test site, adequate comparison measurements were confirmed against 30m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site prduces results that correlate with the ones of tests made in an ope field based on KDB 414788.

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3.3 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:		Limit (d	BuV)
	Frequency range(MHZ)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the log	arithm of the frequency.	
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room.		onducted in a shielded
	 2) The EUT was connect Impedance Stabilizat impedance. The pow connected to a secon plane in the same wa multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference pla placed on the horizor 4) The test was performed the EUT shall be 0.4 vertical ground refered reference plane. The unit under test and be mounted on top of the the closest points of the and associated equip 5) In order to find the material ANSI C63.10: 2013 of 	ted to AC power source throu- tion Network) which provides rer cables of all other units of ad LISN 2, which was bonded ay as the LISN 1 for the unit b t strip was used to connect m the rating of the LISN was no s placed upon a non-metallic ne. And for floor-standing arra- ntal ground reference plane. ed with a vertical ground refer m from the vertical ground refer ence plane was bonded to the LISN 1 was placed 0.8 m fro onded to a ground reference e ground reference plane. The the LISN 1 and the EUT. All co- oment was at least 0.8 m from aximum emission, the relative ce cables must be changed a on conducted measurement.	Igh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear the EUT were to the ground reference being measured. A ultiple power cables to a ot exceeded. table 0.8m above the angement, the EUT was rence plane. The rear of deference plane. The e horizontal ground m the boundary of the plane for LISNs is distance was between other units of the EUT in the LISN 2. e positions of equipment ccording to

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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission



2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[$dB\mu V$] – Value[$dB\mu V$]

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1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[$dB\mu V$] – Value[$dB\mu V$]

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3.4 20dB Spectrum Bandwidth & 99% Occupied Bandwidth



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3.5 Frequency Stability

Test Requirement:	47 CFR Part 15C Section 15.225(e)	
Test Method:	ANSI C63.10: 2013 Section 6.8	
Test Setup:	PC FC FC FC FC FC FC FC FC FC F	
Instruments Used:	Refer to section 6 for details	
Limit:	The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery. While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.	
Test Results:	Pass	
The detailed test data see: A	opendix	

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3.6 Field Strength of Fundamental Emissions

Test Requirement:	47 CFR Part 15C Section 15.225				
Test Method:	ANSI C63.10 :2013 Section 6.4.7				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Limit:	Frequency	Field Strength (μ V/m) at 30m	Field Strength (dB µ V/m) at 30m	Field Strength (dB μ V/m) at 10m	Field Strength (dB μ V/m) at 3m
	1.705~13.110 MHz	30	29.5	48.58	69.5
	13.110-13.410 MHz	106	40.5	59.58	80.5
	13.410-13.553 MHz	334	50.5	69.58	90.5
	13.553-13.567 MHz	15,848	84.0	103.08	124.0
	13.567-13.710 MHz	334	50.5	69.58	90.5
	13.710-14.010 MHz	106	40.5	59.58	80.5
	14.010~30.000 MHz	30	29.5	48.58	69.5
Test Setup:	Figure 1. Below 30MHz				
Test Procedure:	 a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna 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. 				

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	 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(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. g. Repeat above procedures until all frequencies measured was complete. h. RBW set to 9kHz. 		
Exploratory Test Mode:	Transmitting with modulation. Charge + Transmitting mode.		
Final Test Mode:	Transmitting with modulation. Pretest the EUT at Charge + Transmitting mode.Only the worst case is recorded in the report.		
Instruments Used:	Refer to section 6 for details		
Test Results:	Pass		
The detailed test data	see: Appendix		

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3.7 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.225				
Test Method:	ANSI C63.10 :2013 Section 6.4&6.5				
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic Chamber))	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	Above 960MHz	500	54.0	Quasi-peak	3
	Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.				

Test Setup:



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	was mounted on the top of a variable-height antenna tower.
	k. The antenna 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.
	I. 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(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	 The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	 n. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete
E	
Exploratory lest	I ransmitting with modulation.
woue.	Charge + Transmitting mode.
Final Test Mode:	Transmitting with modulation.
	Pretest the EUT at Charge + Transmitting mode.Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data	see: Appendix

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4 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	±1.0 %
2	Occupied Bandwidth	±1.0 %
3	Conduction Emission	± 2.90dB (150kHz to 30MHz)
4	Dedicted Emission	± 3.13dB (9k -30MHz)
4	Radiated Emission	± 4.8dB (30M -1GHz)
Domork:		

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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5 Equipment List

RF Test Equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	11/9/2022	11/8/2025		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2/18/2024	2/17/2025		
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	5/8/2024	5/7/2025		
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR		
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR		
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-02	5/9/2024	5/8/2025		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2/4/2024	2/3/2025		

CE Test System							
Equipment	Inventory No.	Cal Date	Cal Due Date				
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2/1/2024	1/31/2025		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2/4/2024	2/3/2025		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2/4/2024	2/3/2025		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2/4/2024	2/3/2025		
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR		

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RSE Test Equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/2/2026	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/18/2024	2/17/2025	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2024	5/7/2025	
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/21/2024	11/20/2025	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2/1/2024	1/31/2025	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	5/13/2023	5/12/2025	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/13/2023	5/12/2025	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/12/2023	5/11/2025	
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/13/2023	5/12/2025	
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2/1/2024	1/31/2025	
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2/1/2024	1/31/2025	
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2/1/2024	1/31/2025	
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR	

Remark: NCR=No Calibration Requirement.

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6 Photographs - Setup Photos

Refer to Appendix A.2 NFC Setup Photos.

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7 Appendix

20dB Bandwidth



06:10:44 15.11.2024

99% Occupied Bandwidth



05:54:28 15.11.2024

Note:

Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

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Frequency tolerance

Declared Frequency (MHz) 13.56MHz						
		Startup				
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result	
50		13.55994	0.000		Pass	
40	24.00	13.55992	0.001		Pass	
30		13.55993	0.001		Pass	
20		13.55995	0.000		Pass	
10		13.55994	0.000	.0.01	Pass	
0		13.55996	0.000	±0.01	Pass	
-10		13.55994	0.000		Pass	
-20		13.55995	0.000		Pass	
20 27.60 20.40	13.55994	0.000		Pass		
	20.40	13.55994	0.000		Pass	

Declared Frequenc	Declared Frequency (MHz) 13.56MHz						
2mins							
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result		
50		13.55994	0.000		Pass		
40	24.00	13.55993	0.001		Pass		
30		13.55994	0.000		Pass		
20		13.55995	0.000		Pass		
10		13.55996	0.000	10.01	Pass		
0		13.55995	0.000	±0.01	Pass		
-10		13.55994	0.000		Pass		
-20		13.55993	0.001		Pass		
20	27.60	13.55992	0.001		Pass		
20	20.40	13.55994	0.000		Pass		

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Declared Frequence	Declared Frequency (MHz) 13.56MHz						
5mins							
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result		
50		13.55993	0.001		Pass		
40		13.55995	0.000		Pass		
30	24.00	13.55994	0.000		Pass		
20		13.55996	0.000		Pass		
10		13.55995	0.000	10.01	Pass		
0		13.55994	0.000	±0.01	Pass		
-10		13.55994	0.000		Pass		
-20	-	13.55995	0.000		Pass		
20 27.60 20.40	27.60	13.55993	0.001		Pass		
	20.40	13.55994	0.000		Pass		

Declared Frequency (MHz) 13.56MHz						
10mins						
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result	
50		13.55995	0.000		Pass	
40	24.00	13.55994	0.000		Pass	
30		13.55996	0.000		Pass	
20		13.55994	0.000		Pass	
10		13.55993	0.001	10.01	Pass	
0		13.55993	0.001	±0.01	Pass	
-10		13.55994	0.000		Pass	
-20	-	13.55995	0.000		Pass	
27	27.60	13.55994	0.000		Pass	
20	20.40	13.55995	0.000		Pass	

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Field Strength of Fundamental Emissions



3. Factor=Cable loss.

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3. Factor=Cable loss.

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Radiated Spurious Emissions

NFC_RSE										
Polariz	zation:	Coplanar								
Leve[dBj.V/m]	140 130 120 100 90 80 70 60 50 40 30 20 10 -0 -10 -20 9k	Limit — AVI	White more than the second sec	100k	Frequen	Гурини интернотории 1М су[Hz]			рилиции (раничи) рилиции (раничи) рили (раничи) рили (раничи) рилиции (раничи) рилиции (ра	
Final	• QP C	Detector								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
4	0.4978	14.36	20.20	0.44	35.00	73.66	38.66	100	1	Coplanar
5	4.598	17.24	19.80	0.52	37.56	69.54	31.98	100	360	Coplanar
6	13.559	29.31	19.80	0.69	49.80	69.54	19.74	100	357	Coplanar
NO.	Frequency [MHz]	AV Reading [dBµV]	AF [dB/m]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.0146	12.3	19.99	0.43	32.72	124.31	91.59	100	336	Coplanar
2	0.0846	8.47	20.13	0.43	29.03	109.05	80.02	100	359	Coplanar
3	0.2184	22.59	20.28	0.43	43.30	100.82	57.52	100	261	Coplanar
Remar	ˈk: Quasi-Pe	ak measure	ements w	ere perfo	rmed on the	e EUT.				

2. Value = Reading + Antenna Factor + Factor.

3. Factor=Cable loss.

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3. Factor=Cable loss.

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Polari	zation:		Horizon	tal						
Level[dBµVim]	140 130 120 110 100 90 80 70 60 50 40 30 20 -10 -20 30M	imit — Ho	nizontal PK	100M	Frequen	cy[Hz]				16
	• QP D	etector								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.3675	32.63	18.74	-33.99	17.38	40.00	22.62	102	23	Horizontal
2	59.8275	38.27	17.52	-33.86	21.93	40.00	18.07	265	116	Horizontal
3	152.4625	40.06	18.85	-33.16	25.75	43.50	17.75	254	14	Horizontal
4	198.295	50.06	15.27	-32.74	32.59	43.50	10.91	155	298	Horizontal
5	240.49	49.38	16.62	-32.49	33.51	46.00	12.49	263	75	Horizontal
6	263.77	46.57	17.18	-32.37	31.37	46.00	14.63	227	282	Horizontal
Rema 1. The 2. Fina	rk: 9 Quasi-Pea al Value Lev	k measur /el = Reac	ements w ling + Ant	ere perfo tenna Fac	rmed on the ctor + Facto	e EUT. or.				

NFC RF

3. Factor=Cable loss – Preamplifier Factor.

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3. Factor=Cable loss - Preamplifier Factor.

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