



FCC Part15, Subpart B ICES-003

TEST REPORT

For

Square Stand, Square Stand Mount

MODEL NUMBER:

FCC: SPG1-02, SPH1-02

ICES: SPG1-02-A, SPH1-02-A

FCC ID: 2AF3K-SPG1

REPORT NUMBER: 4790812205-EMC-3

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Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	12/11/2023	Initial Issue	



Summary of Test Results

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Standard	Test Item	Limit	Result	Remark	
FCC Part15, Subpart B	Conducted Disturbance	Class B	PASS	NOTE (1)	
ANSI C63.4-2014	Radiated Disturbance below 1 GHz	Class B	PASS		
ICES-003 Issue 7	Radiated Disturbance above 1 GHz	Class B	PASS	NOTE (2)	

Note:

(1) This test is only applicable for devices which can be charged or powered by AC power cable.(2) If the highest frequency of the internal sources of the EUT is less than 108 MHz, the

measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.

(3) This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

(6) The measurement result for the sample received is <Pass> according to < FCC Part15, Subpart B and ICES-003 Issue 7 > when <Accuracy Method> decision rule is applied.



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Block, Inc.
Address:	1955 Broadway, Suite 600 Oakland California 94612 United States
Manufacturer Information	
Company Name:	Block, Inc.
Address:	1955 Broadway, Suite 600 Oakland California 94612 United States
EUT Information	
EUT Name:	Square Stand, Square Stand Mount
Model:	FCC: SPG1-02, SPH1-02
	ICES: SPG1-02-A, SPH1-02-A
Model Difference:	Refer to difference statement
Brand:	SQUARE
Sample Received Date:	November 27, 2023
Sample Status:	Normal
Sample ID:	6738319
Date of Tested:	November 27, 2023 ~ December 8, 2023

APPLICABLE STANDARDS			
STANDARD TEST RESULTS			
FCC Part15, Subpart B	PASS		
ICES-003 Issue 7	PASS		

Prepared By:

on

Checked By: Downy (Juany

Andy Wan Project Engineer

Approved By:

Sephentus

Stephen Guo Laboratory Manager

Denny Huang Senior Project Engineer



2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC Part15 Subpart B & ICES-003 Issue 7 & ANSI C63.4-2014.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject to
	the Commission's Delcaration of Conformity (DoC) and Certification rules
	ISED (Company No.: 21320)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Cortificato	has been registered and fully described in a report filed with ISED.
Certificate	The Company Number is 21320 and the test lab Conformity Assessment
	Body Identifier (CABID) is CN0046.
	VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20192 and R-20202
	Shielding Room B, the VCCI registration No. is C-20153 and T-20155

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

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

Test Item	Measurement Frequency Range	к	U(dB)		
Conducted emissions (AC mains power ports)	0.15MHz - 30MHz	2	3.63		
Radiated emissions below 1GHz	30MHz -1GHz	2	4.13		
Radiated emissions above 1GHz	1GHz - 18GHz	2	5.64		
Note1: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.					
Note 2: According to the standard CISPR 16-4-2, the MU for the Conducted emissions from the AC mains power ports using AMN should not exceed 3.8 in range of 9kHz to 150kHz and 3.4 in range of 150kHz to 30MHz. We have considered the test results containing the value of Ulab (in dB) for the measurement instrumentation actually used for the measurements.					



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Square Stand, Square Stand Mount			
Model	FCC: SPG1-02, SPH1-02 ICES: SPG1-02-A, SPH1-02-A			
Model Difference:	Refer to difference statement			
Serial Number	Foot power: 335CS21004700080 IPPM: 335CS21004700111 Mount: 335CS21304500147			
Adapter	Input: 100~240V,50/60Hz,1.4A Output: 5V dc,3.0A;9V dc,3.0A;15V dc,3.0A;20V dc,3.0A			
Hub Model	SHJ1-01 & SHD3-02			
Wireless information	NFC			
FW version	FW 1.12.118			

5.2. TEST MODE

Test Mode	Description
Mode 1	Normal Operating(EUT powered by adapter; USB hub connected with cash drawer, barcode scanner and printer; audio jack with earphone to play music; NFC on)
Mode 2	Normal Operating(EUT powered by iPad; audio jack with earphone to play music; NFC on)
Mode 3	Normal Operating(EUT powered by adapter; USB hub connected with cash drawer, barcode scanner and printer; audio jack connected to S4; NFC on)
Mode 4	Standby

Note 1: Two Hubs(SHJ1-01 & SHD3-02) have been tested, but only worst result(SHJ1-01) recorded in the report.

Note 2: NFC setting: 5.4V

5.3. EUT ACCESSORY

Item	Accessory	Brand Name	Model Name	Serial Number	Description
1	Power Adapter	Square	SWJ1-01	208LS13503008413	Input: 100~240V,50/60Hz,1.4A Output: 5V dc,3.0A;9V dc,3.0A;15V dc,3.0A;20V dc,2.25A
2	Hub	Square	SHJ1-01& SHD3-02	SHJ1-01: 322LS18303000244 SHD3-02: 339LS20803000487	N/A



5.4. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Series No.
1	iPad	apple	A2696	N/A	N/A
2	Cash Drawer	cashdrawer	VB554A-BL1616	N/A	N/A
3	Barcode scanner	Cipher LAB	BKH005630	N/A	N/A
4	Printer	mC-Printer3	MCP31LB	N/A	N/A
5	Printer	star micronics	TSP100	N/A	N/A
6	Earphone	apple	N/A	N/A	N/A
7	Earphone	SENNHEISER	CX80S	N/A	N/A
8	SQ reader	SQUARE	S4	N/A	N/A

The following cables were used to form a representative test configuration during the tests.

Item	Type of cable	Shielded Type	Ferrite Core	Specification
1	AC cable for adapter	NO	NO	1.3m
2	DC cable for adapter	NO	NO	1.3m
3	Type-C cable for Hub	NO	NO	1.8m
4	USB cable for Printer	YES	NO	1.8m
5	USB cable for Printer	YES	NO	1.8m
6	USB cable for Brush gun	YES	YES	2.0m



6. MEASURING EQUIPMENT AND SOFTWARE USED

Conducted Emissions						
Equipment	Manufacturer	Model No.	Serial No.		Last Cal.	Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	101961	(Oct. 13, 2023	Oct. 12, 2024
Two-Line V- Network	ROHDE & SCHWARZ	ENV216	101983	(Oct. 13, 2023	Oct. 12, 2024
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	(Oct. 13, 2023	Oct. 12, 2024
		S	oftware			
	Description		Manufacturer		Name	Version
Test Software	for Conducted E	Emissions	Farad		EZ-EMC	Ver. UL-3A1
Radiated Emissions						
Equipment	Manufacturer	Model No.	Serial No.		Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	(Oct. 12, 2023	Oct. 11, 2024
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960		Aug. 2, 2021	Aug. 1, 2024
Preamplifier	HP	8447D	2944A09099	(Oct. 12, 2023	Oct. 11, 2024
EMI Measurement Receiver	ROHDE & SCHWARZ	ESR26	101377	(Oct. 12, 2023	Oct. 11, 2024
Horn Antenna	TDK	HRN-0118	130940		Jul. 20, 2021	Jul. 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	(Oct. 12, 2023	Oct. 11, 2024
		S	oftware			
	Description		Manufacturer		Name	Version
Test Software for Radiated Emissions		missions	Farad		EZ-EMC	Ver. UL-3A1
		Other	Instrument			
Equipment	Manufacturer	Model No.	Serial No.		Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	,	Oct.21, 2023	Oct.20, 2024
Barometer	Yiyi	Baro	N/A		Oct.19, 2023	Oct.18, 2024



7. EMISSION TEST

7.1. CONDUCTED EMISSIONS MEASUREMENT

LIMITS

CFR 47 FCC Part15 Subpart B ICES-003 Issue 7							
FREQUENCY	Class A	(dBµV)	Class B (dBµV)				
(MHz)	Quasi-peak	Average	Quasi-peak	Average			
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46*			
0.50 -5.0	73.00	60.00	56.00	46.00			
5.0 -30.0	73.00	60.00	60.00	50.00			

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

TEST PROCEDURE

1. The testing follows the guidelines in ANSI C63.4-2014.

2. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

5. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.

6. LISN at least 80 cm from nearest part of EUT chassis.

7. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.



TEST SETUP



For the actual test configuration, please refer to Appendix I: Photographs of Test Configuration.

TEST ENVIRONMENT

Temperature	22.4 °C	Relative Humidity	52.8 %
Atmosphere Pressure	101 kPa		

TEST MODE

Pre-test Mode:	Mode 1, Mode 3, Mode 4
Final Test Mode:	Mode 1

Note: All test modes had been tested, but only the worst data recorded in the report.



TEST RESULTS

Conducted Emissions					
est Mode: Mode 1 Phase: Line					
Test Voltage AC 120 V/60 Hz Hub: SHJ1-01					



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1609	41.32	9.59	50.91	65.42	-14.51	QP
2	0.1609	22.88	9.59	32.47	55.42	-22.95	AVG
3	0.1778	38.57	9.59	48.16	64.59	-16.43	QP
4	0.1778	22.15	9.59	31.74	54.59	-22.85	AVG
5	0.4861	32.36	9.60	41.96	56.23	-14.27	QP
6	0.4861	24.13	9.60	33.73	46.23	-12.50	AVG
7	0.9677	23.90	9.61	33.51	56.00	-22.49	QP
8	0.9677	12.01	9.61	21.62	46.00	-24.38	AVG
9	1.4773	22.99	9.62	32.61	56.00	-23.39	QP
10	1.4773	14.42	9.62	24.04	46.00	-21.96	AVG
11	17.4830	26.97	9.79	36.76	60.00	-23.24	QP
12	17.4830	20.39	9.79	30.18	50.00	-19.82	AVG

Note: 1. Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor) 2. Margin = Result - Limit



Conducted Emissions					
Test Mode: Mode 1 Phase: Neutral					
Test Voltage AC 120 V/60 Hz Hub: SHJ1-01					



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1652	41.02	9.59	50.61	65.20	-14.59	QP
2	0.1652	25.24	9.59	34.83	55.20	-20.37	AVG
3	0.1794	38.71	9.59	48.30	64.51	-16.21	QP
4	0.1794	21.32	9.59	30.91	54.51	-23.60	AVG
5	0.4525	32.83	9.60	42.43	56.83	-14.40	QP
6	0.4525	25.46	9.60	35.06	46.83	-11.77	AVG
7	1.7368	21.45	9.62	31.07	56.00	-24.93	QP
8	1.7368	10.78	9.62	20.40	46.00	-25.60	AVG
9	7.8467	18.59	9.71	28.30	60.00	-31.70	QP
10	7.8467	11.92	9.71	21.63	50.00	-28.37	AVG
11	17.5676	25.02	9.79	34.81	60.00	-25.19	QP
12	17.5676	18.50	9.79	28.29	50.00	-21.71	AVG

Note: 1. Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor) 2. Margin = Result - Limit



7.2. RADIATED EMISSIONS MEASUREMENT

LIMITS

Below 1 GHz

CFR 47 FCC Part 15 Subpart B					
Frequency (MHz)	Class A	Class B			
	Field strength (dBuV/m) (at 3 m)	Field strength (dBuV/m) (at 3 m)			
30 - 88	49.5	40			
88 - 216	53.9	43.5			
216 - 960	56.9	46			
Above 960	60	54			

ICES-003 Issue 7					
Frequency (MHz)	Class A	Class B			
	Field strength (dBuV/m) (at 3 m)	Field strength (dBuV/m) (at 3 m)			
30 - 88	50	40			
88 - 216	54	43.5			
216 - 230	56.9	46			
230 - 960	57	47			
Above 960	60	54			

Note: The different between FCC Part 15 Subpart B limit and ICES-003 Issue 7 limit is only in frequency band 230 MHz to 960 MHz, the limit of FCC Part 15 Subpart B is 1 dB smaller than the limit of ICES-003 Issue 7, if the test result complies with FCC Part 15 Subpart B limit, it deemed to comply with ICES-003 Issue 7 limit.

Above 1 GHz

CFR 47 FCC Part 15 Subpart B					
ICES-003 Issue 7					
Class A Class B					
Frequency	(dBuV/m) (at 3 m)	(dBuV/m) (at 3 m)		
(10112)	Peak	Average	Peak	Average	
Above 1000	80	60	74	54	



Test Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m),
 3m Emission level = 10 m Emission level + 20log(10 m/3 m);



TEST SETUP AND PROCEDURE

Below 1 GHz and above 30 MHz



The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak and QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.4-2014.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp was used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.

7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

8. For measurement below 1 GHz, the initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.



Above 1 GHz



The setting of the spectrum analyser

RBW	1 MHz
VBW	3 MHz
Sweep	Auto
Detector	Peak: Peak AVG: RMS
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.4-2014.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.

7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

8. For measurement above 1 GHz, the peak emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the peak limit specified in Section 15.109. If peak result complies with average limit, average result is deemed to comply with average limit.

9. The average emission measurement will be measured by the RMS detector and must comply with the average limit specified in Section 15.109.



TEST ENVIRONMENT

Radiated Emission	ns - Below 1 GHz	Radiated Emissions - Above 1 GHz		
Temperature:	22.4 °C	Temperature:	25.1 °C	
Humidity:	58 %	Humidity:	61 %	
Atmosphere Pressure	101 kPa	Atmosphere Pressure	101 kPa	

TEST MODE

Radiated Emissions - Below 1 GHz		Radiated Emissions - Above 1 GHz		
Pre-test Mode:	Mode 1 ~ Mode 4	Pre-test Mode: Mode 1 ~ Mode 4		
Final Test Mode:	Mode 1	Final Test Mode:	Mode 1	

Note: All test modes had been tested, but only the worst data recorded in the report.



TEST RESULTS

Radiated Emissions – Below 1 GHz						
Measurement Method Radiated Polar: Horizontal						
Test Mode:	Mode 1	Test Voltage:	AC 120 V/60 Hz			
Hub:	SHJ1-01					



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	122.1500	55.03	-19.27	35.76	43.50	-7.74	QP
2	298.6900	54.55	-14.90	39.65	46.00	-6.35	QP
3	312.2700	57.00	-14.24	42.76	46.00	-3.24	QP
4	325.8500	57.40	-13.61	43.79	46.00	-2.21	QP
5	353.0100	56.01	-12.48	43.53	46.00	-2.47	QP
6	396.6600	54.63	-12.43	42.20	46.00	-3.80	QP

Note: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) 2. Margin = Result - Limit



Radiated Emissions – Below 1 GHz						
Measurement Method Radiated Polar: Vertical						
Test Mode:	Mode 1	Test Voltage:	AC 120 V/60 Hz			
Hub:	SHJ1-01					



Note: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) 2. Margin = Result - Limit



Radiated Emissions – Above 1 GHz						
Measurement Method Radiated Polar: Horizontal						
Test Mode:	Mode 1	Test Voltage:	AC 120 V/60 Hz			
Hub:	SHJ1-01					



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1391.000	53.20	-13.22	39.98	74.00	-34.02	peak
2	2751.000	50.34	-7.73	42.61	74.00	-31.39	peak
3	8990.000	37.49	9.67	47.16	74.00	-26.84	peak
4	11081.000	34.01	14.18	48.19	74.00	-25.81	peak
5	13869.000	28.52	20.44	48.96	74.00	-25.04	peak
6	17949.000	24.65	24.02	48.67	74.00	-25.33	peak

Note: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)

2. Margin = Result - Limit

3. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

4. Peak: Peak detector.



Radiated Emissions – Above 1 GHz						
Measurement Method Radiated Polar: Vertical						
Test Mode:	Mode 1	Test Voltage:	AC 120 V/60 Hz			
Hub:	SHJ1-01					



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1391.000	54.31	-13.22	41.09	74.00	-32.91	peak
2	6474.000	40.12	3.62	43.74	74.00	-30.26	peak
3	9143.000	37.08	9.80	46.88	74.00	-27.12	peak
4	11591.000	33.12	15.80	48.92	74.00	-25.08	peak
5	13750.000	29.61	20.20	49.81	74.00	-24.19	peak
6	17932.000	25.06	23.91	48.97	74.00	-25.03	peak

Note: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor) 2. Margin = Result - Limit

3. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

4. Peak: Peak detector.



END OF REPORT