

TEST REPORT

Application No.: KSCR2303000333AT
FCC ID: 2AGOFRC428F
Applicant: HCS (Suzhou) Limited
Address of Applicant: 19F-20F, Building B-3rd, No.209 Zhuyuan Road, New District, Suzhou, P.R, China
Manufacturer: HCS (Suzhou) Limited
Address of Manufacturer: 19F-20F, Building B-3rd, No.209 Zhuyuan Road, New District, Suzhou, P.R, China
Factory: Himit (Yueyang) Technology Ltd.
Address of Factory: Building 4, Lingang High-tech Industrial Park, Yueyang Area, China (Hunan) Free Trade Pilot Zone

Equipment Under Test (EUT):

EUT Name: Remote control
Model No.: RC4284505/02RP, RC4284504/02RP, RC428XXXX/XXBRP, RC428XXXX/XRP ('X'=0-9, 'B' means packed with battery) ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Standard(s) : 47 CFR Part 15, Subpart B

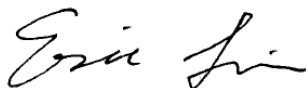
Date of Receipt: 2023-03-02

Date of Test: 2023-03-07 to 2023-03-13

Date of Issue: 2023-03-14

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2023-03-14	/

Authorized for issue by:			
		<i>Damon Zhou</i>	
		Damon_Zhou/Project Engineer	
		<i>Eric Lin</i>	
		Eric Lin /Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	15.109(a);Class B	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.4:2014	15.109(g);Class B	Pass

Declaration of EUT Family Grouping:

There are series models mentioned in this report and they are the Identical in electrical and electronic characters. Both models RC4284505/02RP, RC4284504/02RP were tested since their differences were the model number, Color and appearance.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3V by AAA*2 battery
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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	/	/
Dongle	/	/	/

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty (U_{LAB}) *	U_{CISPR}
1	Conducted Emission at mains port using AMN	2.4dB (9kHz to 150kHz)	3.8dB (9kHz to 150kHz)
		2.2dB (150kHz to 30MHz)	3.4dB (150kHz to 30MHz)
2	Conducted Emission at telecommunication port using AAN	4.0 dB (150kHz to 30MHz)	5.0dB (150kHz to 30MHz)
3	Radiated Power	3.2dB	4.5dB (30MHz to 300MHz)
4	Radiated Emission (10m)	4.1 dB	6.3dB (30MHz-1GHz)
5	Radiated Emission (3m)	4.6 dB (30MHz-1GHz)	6.3dB (30MHz-1GHz)
		5.0dB (1GHz-6GHz)	5.2dB (1GHz-6GHz)
		5.2dB (6GHz-18GHz)	5.5dB (6GHz-18GHz)
		5.3dB (18GHz-40GHz)	N/A

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Decision Rule:

- CISPR 16-4-2 for emission measurements is as below described.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

U_{LAB} less than U_{CISPR} , therefore:

- 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.
- For immunity testing no decision rule is applicable.



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.5 Test Facility

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

• A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMI Test Receiver	R&S	ESCI	KS301196	08/22/2022	08/21/2023
Antenna	TESEQ	CBL 6112D	KUS1806E006	03/05/2022	03/04/2024
Spectrum Analyzer	R&S	FSU26	KS301206	04/01/2022	03/31/2023
Signal Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
Software	Faratronic	EZ_EMV v 3A1	N/A	N/A	N/A

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMI Test Receiver	R&S	ESCI	KS301196	08/22/2022	08/21/2023
Spectrum Analyzer	R&S	FSU26	KS301206	04/01/2022	03/31/2023
Preamplifier	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-2	01/17/2023	01/16/2024
Horn-antenna	SCHWARZBECK	BBHA9120D	KS301111	03/02/2023	03/01/2024
Signal Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
Amplifier	COM-POWER	PAM-840A	KUS1710E001	01/17/2023	01/16/2024
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9170	CZ301058	03/22/2022	03/21/2023
Software	Faratronic	EZ_EMV v 3A1	N/A	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Digital Pressure Meter	Mengde	DYM3	CZ750023	01/31/2023	01/30/2024
Temperature & Humidity Recorder	Anymetre	TH603	CZ720001-1 CZ720001-2 CZ720001-3 CZ720001-4 CZ720001-5 CZ720001-6 CZ720001-7	10/13/2022	10/12/2023



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6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

Class B

Test Distance:	3m
30MHz -88MHz	40.0(dBμV/m) quasi-peak
88MHz-216MHz	43.5(dBμV/m) quasi-peak
216MHz-960MHz	46.0(dBμV/m) quasi-peak
960MHz-1000MHz	54.0(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30MHz to1000MHz

Class B

Test Distance:	10m
30MHz -88MHz	29.5(dBμV/m) quasi-peak
88MHz-216MHz	33.1(dBμV/m) quasi-peak
216MHz-960MHz	35.6(dBμV/m) quasi-peak
960MHz-1000MHz	43.5(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30MHz to1000MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 49.2 % RH Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	IR mode:Pressing the IR Button to keep EUT (RC4284505/02RP) working continuously with IR function
	01	IR mode:Pressing the IR Button to keep EUT (RC4284504/02RP) working continuously with IR function
	02	BLE mode: Establish the communication between EUT (RC4284505/02RP) and Dongle via BT function and pressing the BLE key.
	03	BLE mode: Establish the communication between EUT (RC4284504/02RP) and Dongle via BT function and pressing the BLE key.

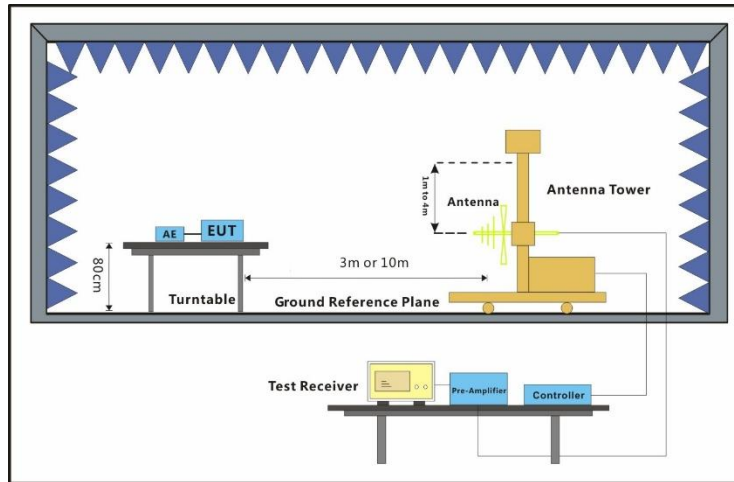


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	04	BLE voice mode: Establish the communication between EUT(RC4284505/02RP) and Dongle via BT function and pressing the voice key.
	05	BLE voice mode: Establish the communication between EUT(RC4284504/02RP) and Dongle via BT function and pressing the voice key.
	06	IR standby mode:Keep EUT (RC4284505/02RP) power on and working on IR standby mode.
	07	IR standby mode:Keep EUT (RC4284504/02RP) power on and working on IR standby mode.
	08	BLE standby mode: Keep EUT (RC4284505/02RP) power on and working on BLE standby mode.
	09	BLE standby mode: Keep EUT (RC4284504/02RP) power on and working on BLE standby mode.
Final test	00	IR mode:Pressing the IR Button to keep EUT (RC4284505/02RP) working continuously with IR function
	01	IR mode:Pressing the IR Button to keep EUT (RC4284504/02RP) working continuously with IR function

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

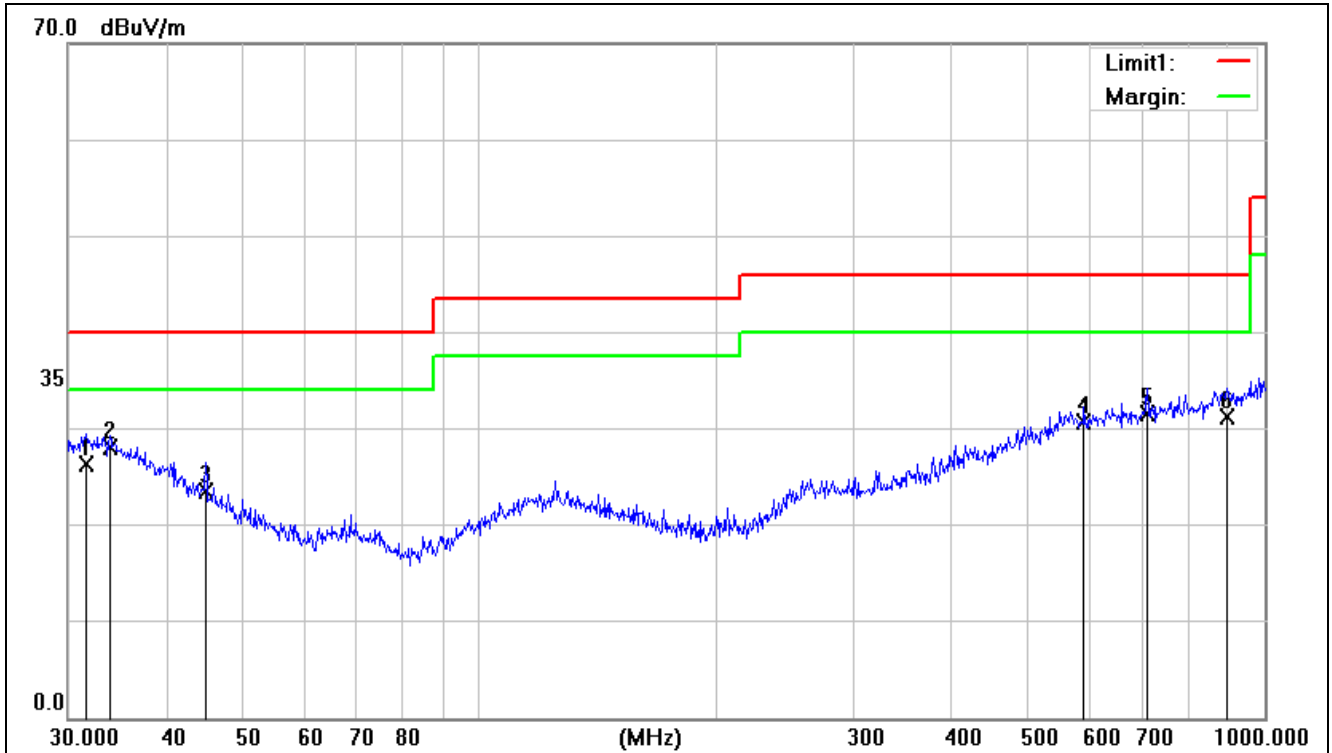


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Test Mode: 00; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	31.6202	1.22	25.20	26.42	40.00	-13.58	100	49	QP
2	33.9174	3.18	24.96	28.14	40.00	-11.86	100	255	QP
3	44.9006	3.72	19.87	23.59	40.00	-16.41	200	72	QP
4	588.9051	3.59	27.07	30.66	46.00	-15.34	200	76	QP
5	709.1823	3.52	28.00	31.52	46.00	-14.48	100	316	QP
6	893.8567	1.68	29.58	31.26	46.00	-14.74	100	357	QP

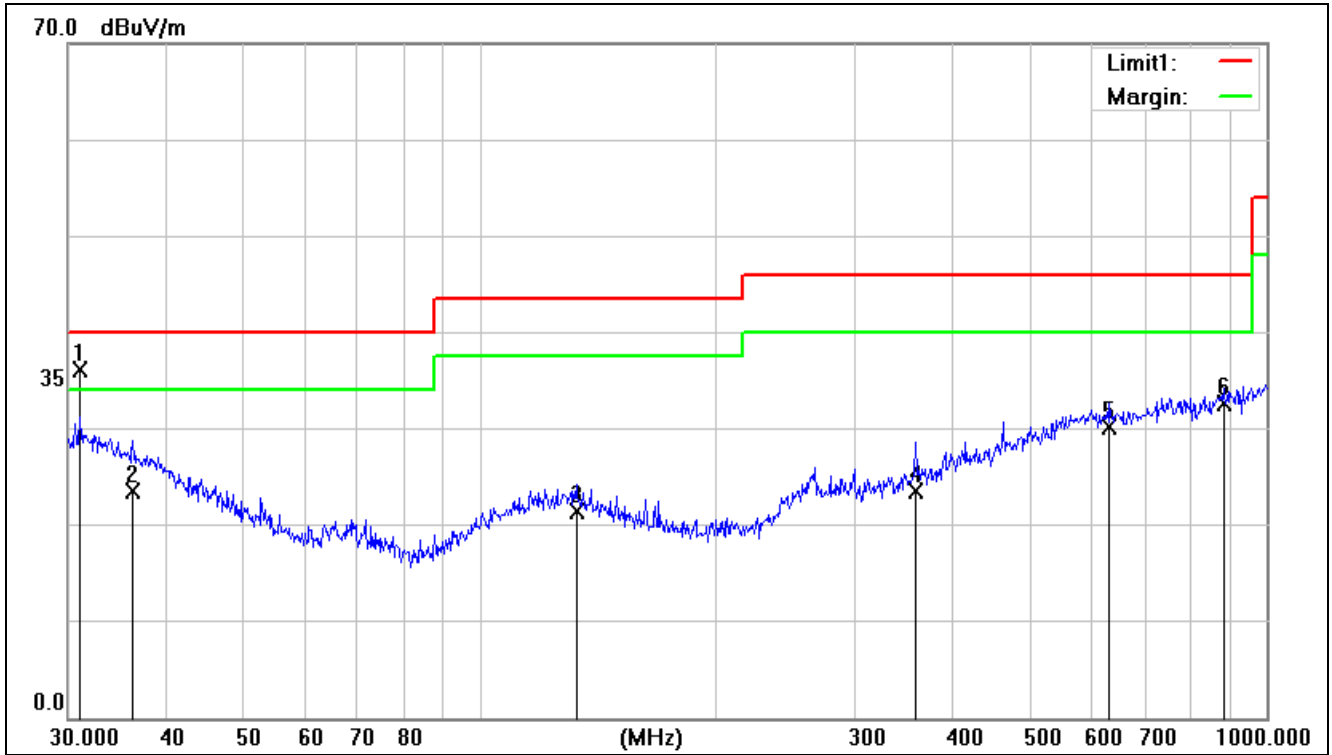


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Test Mode: 00; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	31.0706	11.03	25.19	36.22	40.00	-3.78	100	170	QP
2	36.2541	-0.47	23.99	23.52	40.00	-16.48	100	343	QP
3	132.6850	2.12	19.30	21.42	43.50	-22.08	200	271	QP
4	357.9287	1.48	22.10	23.58	46.00	-22.42	100	220	QP
5	631.6884	2.41	27.70	30.11	46.00	-15.89	200	51	QP
6	881.4067	3.25	29.42	32.67	46.00	-13.33	100	202	QP

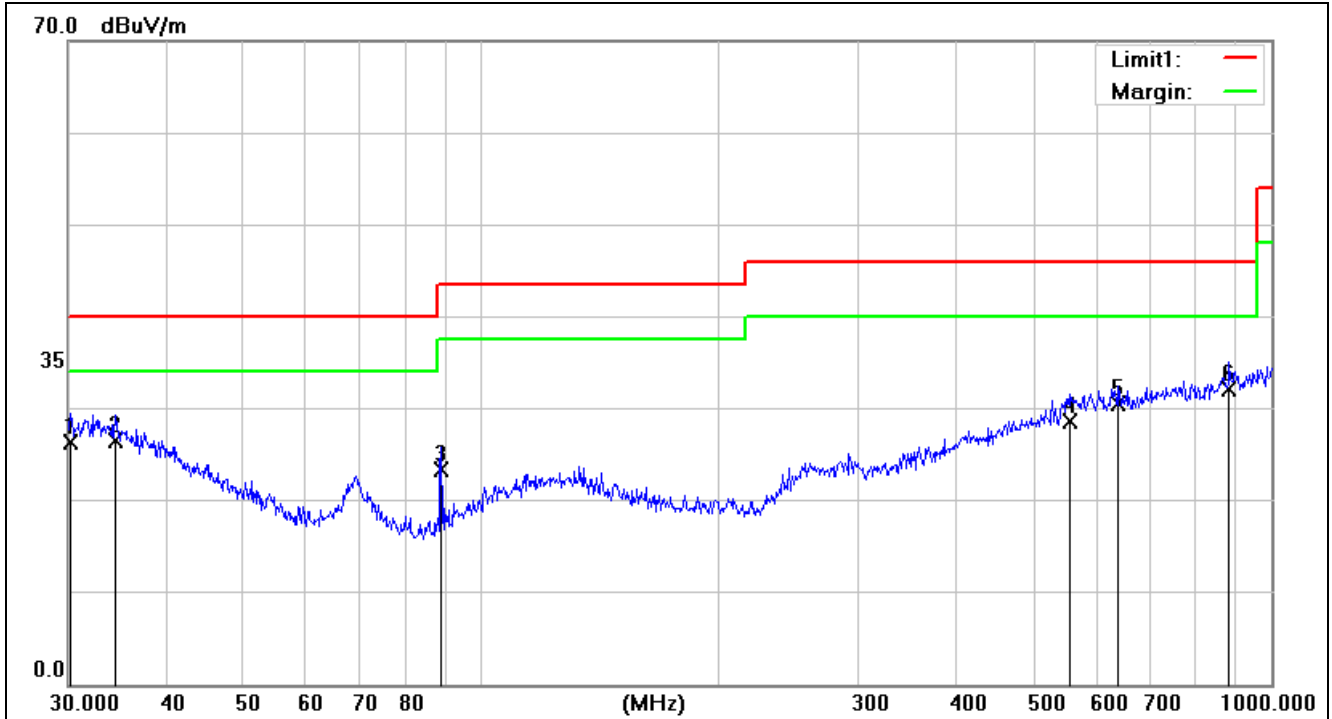


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Test Mode: 01; Polarity: Horizontal



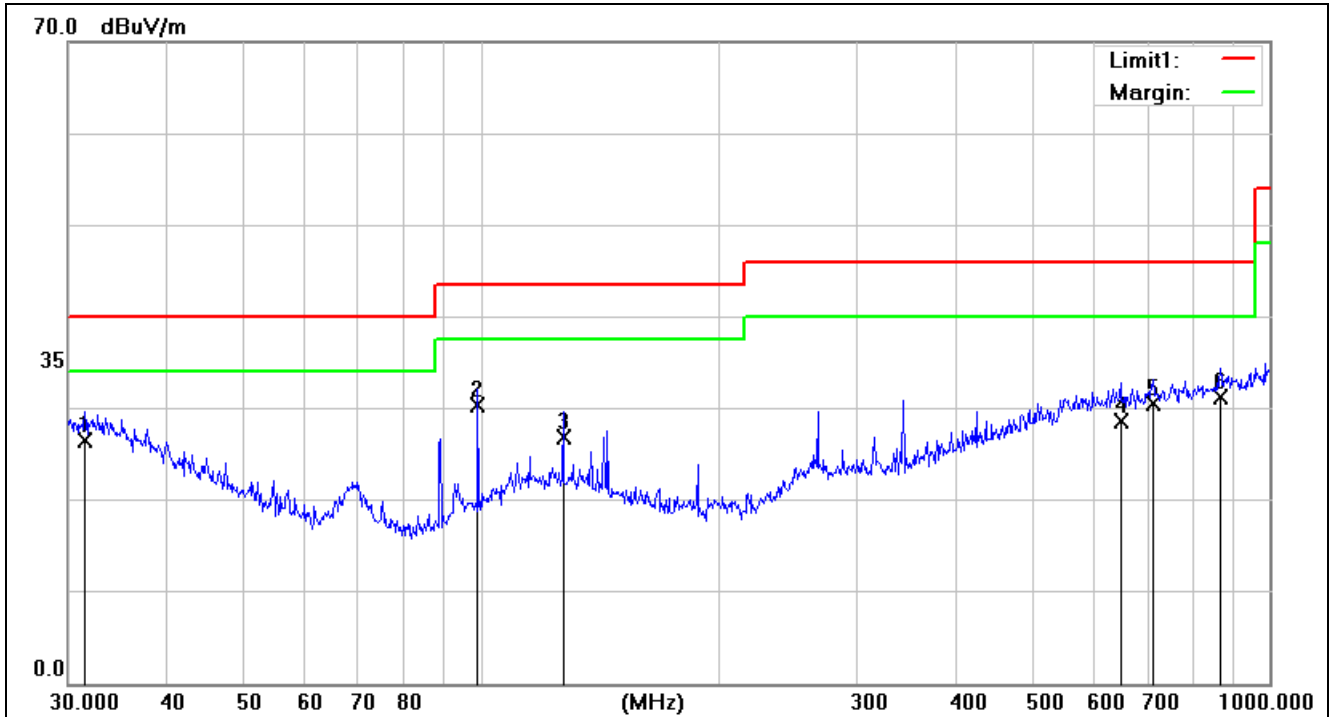
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.2111	1.03	25.30	26.33	40.00	-13.67	100	40	QP
2	34.3964	1.68	24.84	26.52	40.00	-13.48	100	260	QP
3	88.9639	8.76	14.66	23.42	43.50	-20.08	100	298	QP
4	554.8254	1.35	27.29	28.64	46.00	-17.36	100	23	QP
5	640.6110	2.70	27.85	30.55	46.00	-15.45	100	318	QP
6	884.5029	2.75	29.40	32.15	46.00	-13.85	100	48	QP



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Test Mode: 01; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	31.5095	1.35	25.20	26.55	40.00	-13.45	200	137	QP
2	99.1797	13.44	16.97	30.41	43.50	-13.09	100	66	QP
3	127.2176	7.33	19.49	26.82	43.50	-16.68	200	357	QP
4	647.3856	0.82	27.80	28.62	46.00	-17.38	100	108	QP
5	711.6734	2.52	28.00	30.52	46.00	-15.48	100	71	QP
6	866.0879	2.08	29.14	31.22	46.00	-14.78	100	197	QP



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6.2 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

Class B

Above 1GHz 74(dBµV/m) peak, 54(dBµV/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 100M to18000MHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 48.5 % RH Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

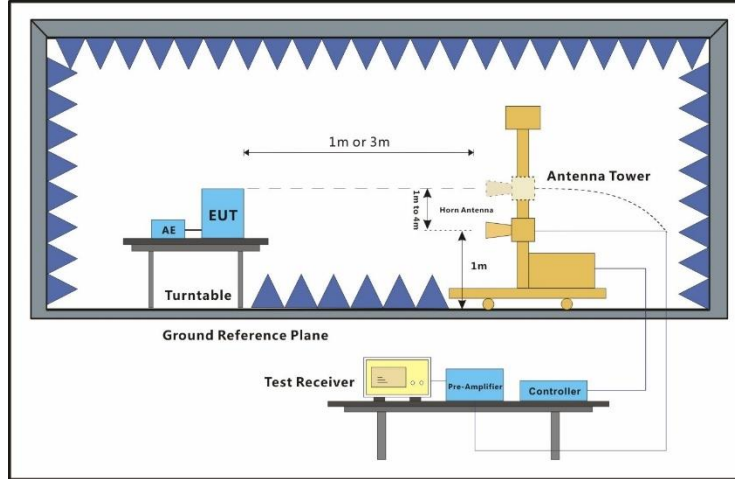
Pre-scan / Final test	Mode Code	Description
Pre-scan	00	IR mode:Pressing the IR Button to keep EUT (RC4284505/02RP) working continuously with IR function
	01	IR mode:Pressing the IR Button to keep EUT (RC4284504/02RP) working continuously with IR function
	02	BLE mode: Establish the communication between EUT (RC4284505/02RP) and Dongle via BT function and pressing the BLE key.
	03	BLE mode: Establish the communication between EUT (RC4284504/02RP) and Dongle via BT function and pressing the BLE key.
	04	BLE voice mode: Establish the communication between EUT(RC4284505/02RP) and Dongle via BT function and pressing the voice key.
	05	BLE voice mode: Establish the communication between EUT(RC4284504/02RP) and Dongle via BT function and pressing the voice key.
	06	IR standby mode:Keep EUT (RC4284505/02RP) power on and working on IR standby mode.
	07	IR standby mode:Keep EUT (RC4284504/02RP) power on and working on IR standby mode.
	08	BLE standby mode: Keep EUT (RC4284505/02RP) power on and working on BLE standby mode.
	09	BLE standby mode: Keep EUT (RC4284504/02RP) power on and working on BLE standby mode.
Final test	00	IR mode:Pressing the IR Button to keep EUT (RC4284505/02RP) working continuously with IR function
	01	IR mode:Pressing the IR Button to keep EUT (RC4284504/02RP) working continuously with IR function



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6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Remark: $Level = Read\ Level + Cable\ Loss + Antenna\ Factor - Preamp\ Factor$

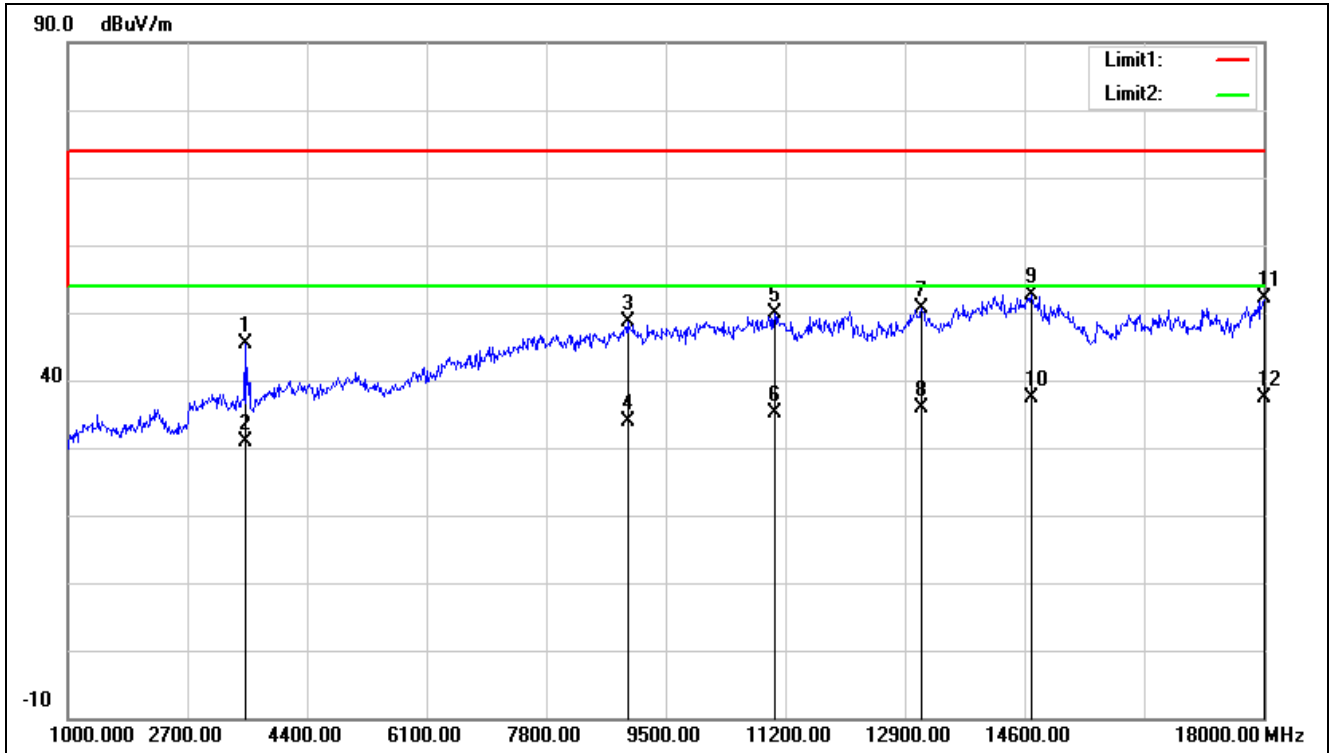


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Test Mode: 00; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3516.000	62.70	-17.28	45.42	74.00	-28.58	200	152	peak
2	3516.000	48.14	-17.28	30.86	54.00	-23.14	200	152	AVG
3	8956.000	52.93	-4.35	48.58	74.00	-25.42	100	187	peak
4	8956.000	38.22	-4.35	33.87	54.00	-20.13	100	187	AVG
5	11047.000	51.44	-1.58	49.86	74.00	-24.14	200	266	peak
6	11047.000	36.72	-1.58	35.14	54.00	-18.86	200	266	AVG
7	13138.000	52.07	-1.49	50.58	74.00	-23.42	200	202	peak
8	13138.000	37.37	-1.49	35.88	54.00	-18.12	200	202	AVG
9	14702.000	51.28	1.45	52.73	74.00	-21.27	100	346	peak
10	14702.000	36.04	1.45	37.49	54.00	-16.51	100	346	AVG
11	18000.000	40.83	11.32	52.15	74.00	-21.85	200	102	peak
12	18000.000	26.18	11.32	37.50	54.00	-16.50	200	102	AVG

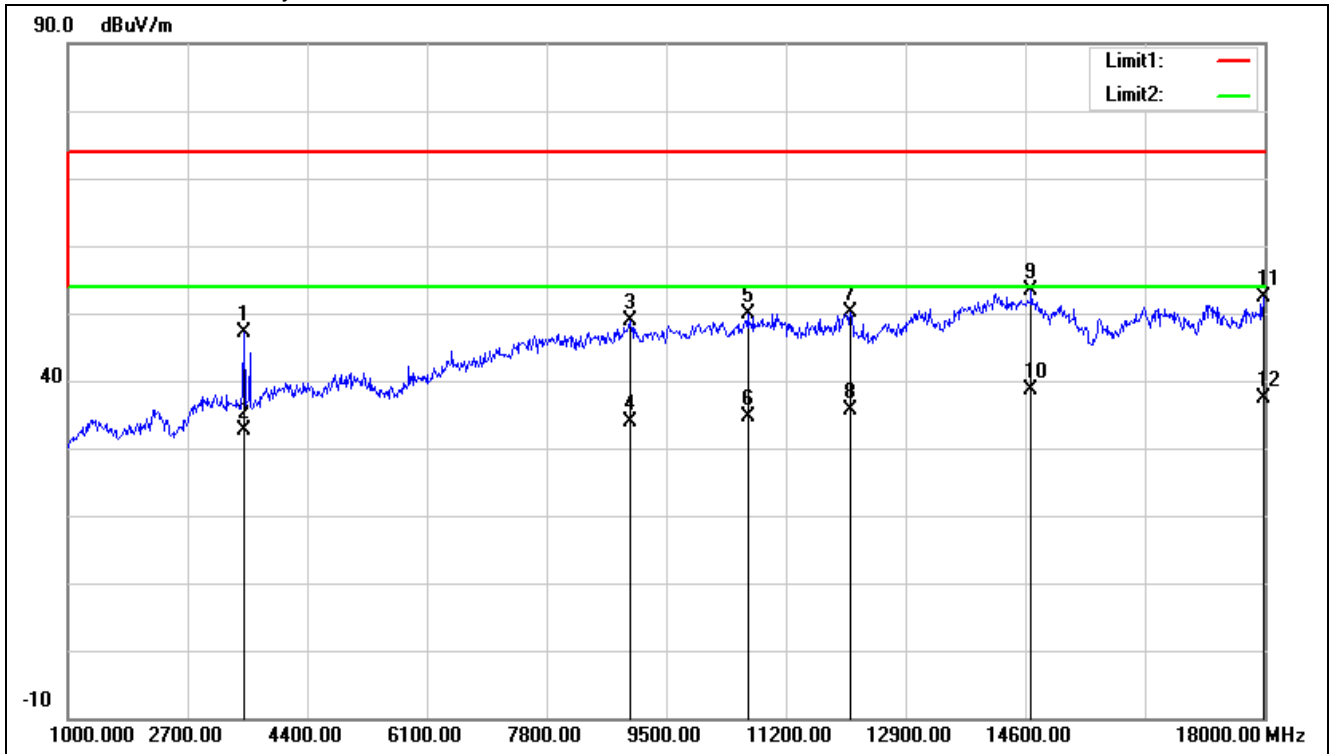


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Test Mode: 00; Polarity: Vertical



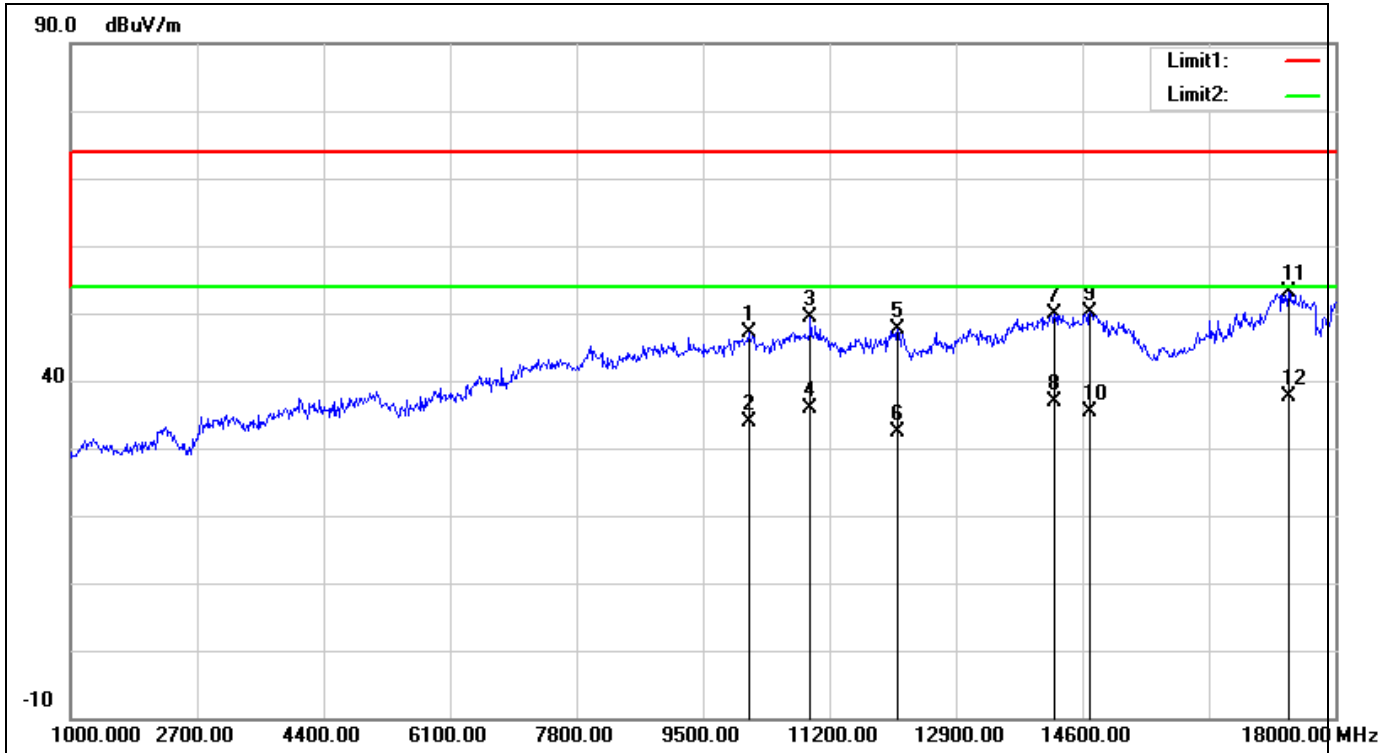
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	3499.000	64.46	-17.42	47.04	74.00	-26.96	100	50	peak
2	3499.000	50.09	-17.42	32.67	54.00	-21.33	100	50	AVG
3	8990.000	53.21	-4.33	48.88	74.00	-25.12	200	2	peak
4	8990.000	38.28	-4.33	33.95	54.00	-20.05	200	2	AVG
5	10656.000	52.66	-2.73	49.93	74.00	-24.07	100	11	peak
6	10656.000	37.25	-2.73	34.52	54.00	-19.48	100	11	AVG
7	12118.000	52.76	-2.69	50.07	74.00	-23.93	100	360	peak
8	12118.000	38.31	-2.69	35.62	54.00	-18.38	100	360	AVG
9	14685.000	51.86	1.46	53.32	74.00	-20.68	100	287	peak
10	14685.000	37.28	1.46	38.74	54.00	-15.26	100	287	AVG
11	17983.000	41.12	11.16	52.28	74.00	-21.72	100	34	peak
12	17983.000	26.13	11.16	37.29	54.00	-16.71	100	34	AVG



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Test Mode: 01; Polarity: Horizontal



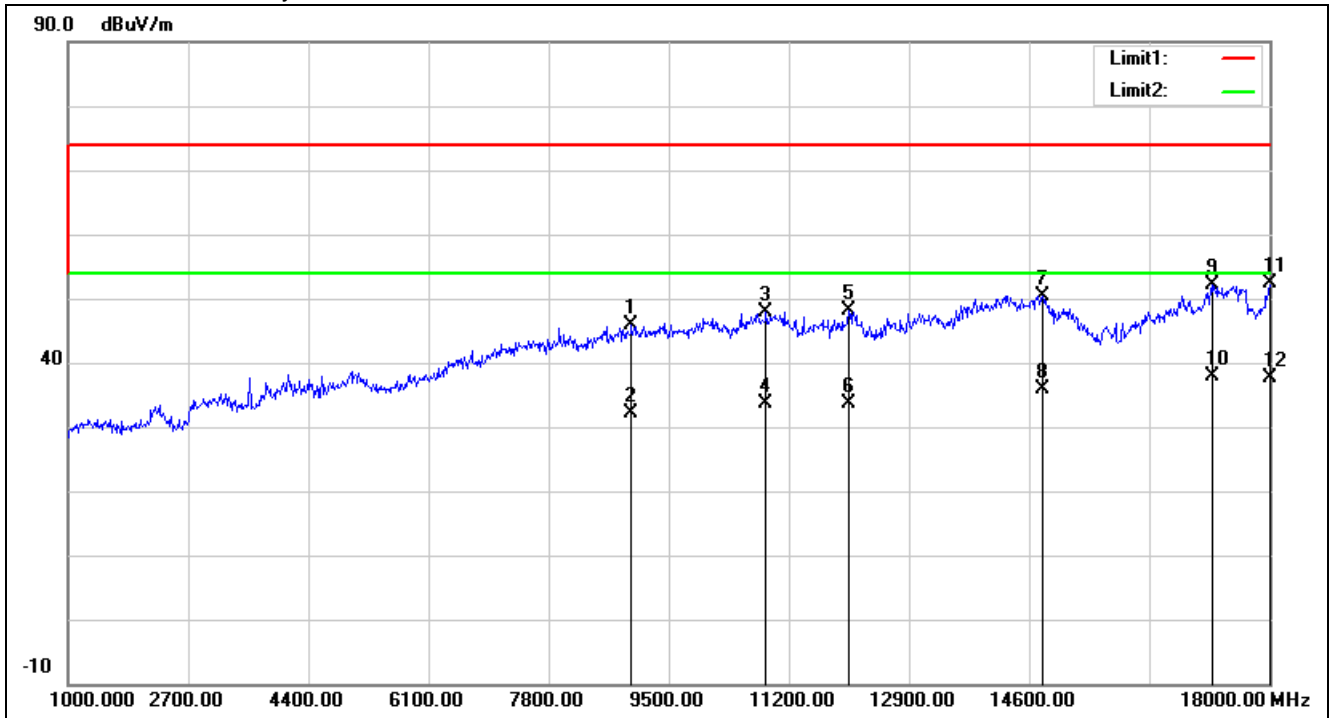
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10112.000	50.43	-3.24	47.19	74.00	-26.81	100	67	peak
2	10112.000	37.23	-3.24	33.99	54.00	-20.01	100	67	AVG
3	10945.000	50.58	-1.27	49.31	74.00	-24.69	200	319	peak
4	10945.000	37.05	-1.27	35.78	54.00	-18.22	200	319	AVG
5	12118.000	49.93	-2.40	47.53	74.00	-26.47	200	148	peak
6	12118.000	34.87	-2.40	32.47	54.00	-21.53	200	148	AVG
7	14226.000	48.46	1.44	49.90	74.00	-24.10	100	329	peak
8	14226.000	35.48	1.44	36.92	54.00	-17.08	100	329	AVG
9	14702.000	48.33	1.79	50.12	74.00	-23.88	200	67	peak
10	14702.000	33.68	1.79	35.47	54.00	-18.53	200	67	AVG
11	17371.000	47.52	5.71	53.23	74.00	-20.77	200	233	peak
12	17371.000	31.83	5.71	37.54	54.00	-16.46	200	233	AVG



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Test Mode: 01; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	8973.000	50.38	-4.39	45.99	74.00	-28.01	100	6	peak
2	8973.000	36.40	-4.39	32.01	54.00	-21.99	100	6	AVG
3	10877.000	49.47	-1.59	47.88	74.00	-26.12	100	49	peak
4	10877.000	35.27	-1.59	33.68	54.00	-20.32	100	49	AVG
5	12050.000	50.56	-2.34	48.22	74.00	-25.78	200	233	peak
6	12050.000	35.88	-2.34	33.54	54.00	-20.46	200	233	AVG
7	14787.000	48.68	1.76	50.44	74.00	-23.56	100	233	peak
8	14787.000	34.06	1.76	35.82	54.00	-18.18	100	233	AVG
9	17201.000	47.64	4.59	52.23	74.00	-21.77	100	144	peak
10	17201.000	33.36	4.59	37.95	54.00	-16.05	100	144	AVG
11	18000.000	39.64	12.68	52.32	74.00	-21.68	100	11	peak
12	18000.000	25.00	12.68	37.68	54.00	-16.32	100	11	AVG



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2303000333AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2303000332AT

- End of the Report -



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