

FCC & IC REPORT

Applicant: COPPERNIC

Address of Applicant: 185 avenue Archimede, 13857 Aix en Provence, FRANCE

Equipment Under Test (EUT)

Product Name: C-One² HF ASK

Model No.: C-One HF ASK

Trade mark: COPPERNIC

FCC ID: XGK-C-ONE-HF-ASK

Canada IC: 8402A-CONEHFASK

Applicable standards: FCC CFR Title 47 Part 15 Subpart B
ICES-003 Issue 6 Published: January 2016, Updated: April 2017

Date of sample receipt: 07 Apr., 2020

Date of Test: 07 Apr., 2020 to 25 May, 2020

Date of report issued: 12 Jun., 2020

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	26 May, 2020	Original
01	16 Jun., 2020	Update Model No

Tested by:

Carey Chen

Test Engineer

Date:

16 Jun., 2020

Reviewed by:

Winner Zhang

Project Engineer

Date:

16 Jun., 2020

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4 Test Summary

Test Item	Section		Result
	FCC	IC	
Conducted Emission	Part 15.107	ICES-003 Section 6.1	Pass
Radiated Emission	Part 15.109	ICES-003 Section 6.2	Pass

Pass: The EUT complies with the essential requirements in the standard.

5 General Information

5.1 Client Information

Applicant:	COPPERNIC
Address:	185 avenue Archimede, 13857 Aix en Provence, FRANCE
Manufacturer:	ASKEY COMPUTER Corp.
Address:	10 F, N°119, JIANKANG RD., ZHONGHE DIST., New Tapei City, TAIWAN

5.2 General Description of E.U.T.

Product Name:	C-One ² HF ASK
Model No.:	C-One HF ASK
Power supply:	Rechargeable Li-ion Battery DC3.7V-3300mAh
AC adapter :	Model: SYS1561-1105-1 Input: AC100-240V, 50/60Hz, 1A Output: DC 5.35V, 2A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Recording mode	Keep the EUT in Charging+Recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
Docking station mode:	Keep the EUT in charging(by docking station) and LAN link mode
GPS mode	Keep the EUT in GPS receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.320 dB (k=2)

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

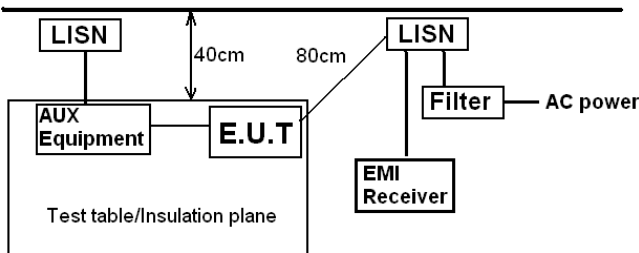
5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-07-2020	03-06-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2020
Cable	HP	10503A	N/A	03-05-2020	03-04-2021
EMI Test Software	AUDIX	E3	Version: 6.110919b		

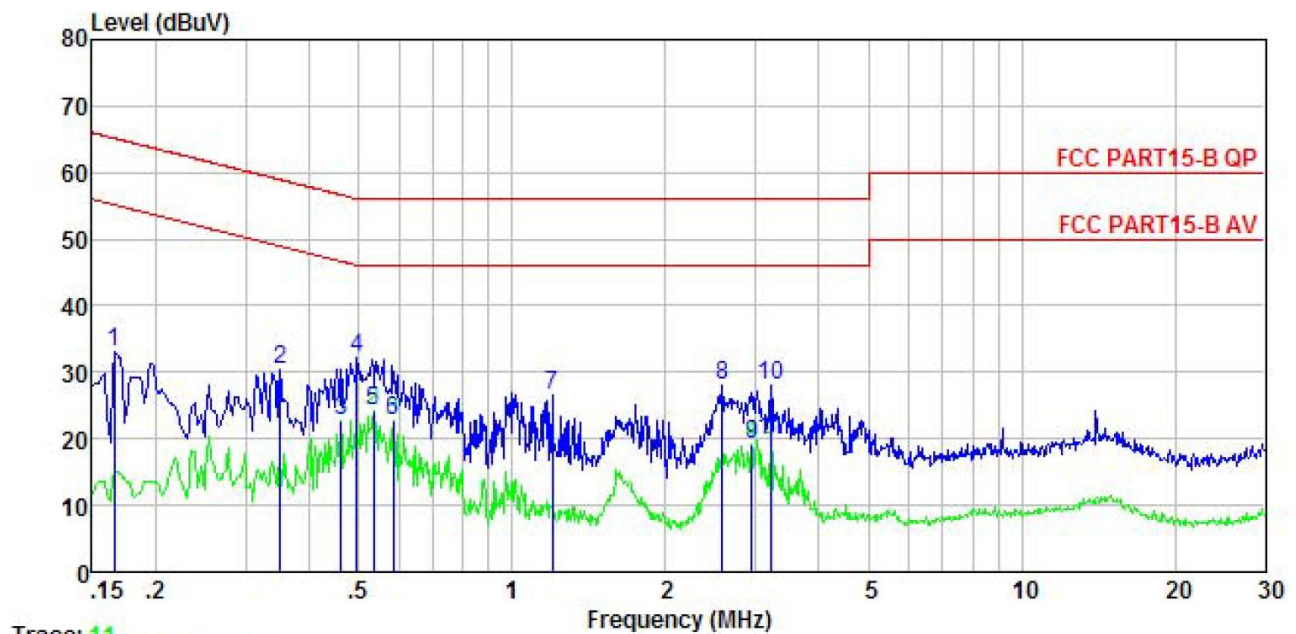
6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107 ICES-003 Section 6.1						
Test Method:	ANSI C63.4:2014						
Test Frequency Range:	150kHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9kHz, VBW=30kHz						
Limit:	Frequency range (MHz)	Limit (dBμV)					
		Quasi-peak		Average			
	0.15-0.5	66 to 56*		56 to 46*			
	0.5-5	56		46			
	0.5-30	60		50			
* Decreases with the logarithm of the frequency.							
Test setup:	Reference Plane  Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m						
Test procedure	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.						
Test environment:	Temp.:	23 °C	Humid.:	56%	Press.:	101kPa	
Test Instruments:	Refer to section 5.9 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						

Measurement data:

Product name:	C-One ² HF ASK	Product model:	C-One HF ASK
Test by:	Carey	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%



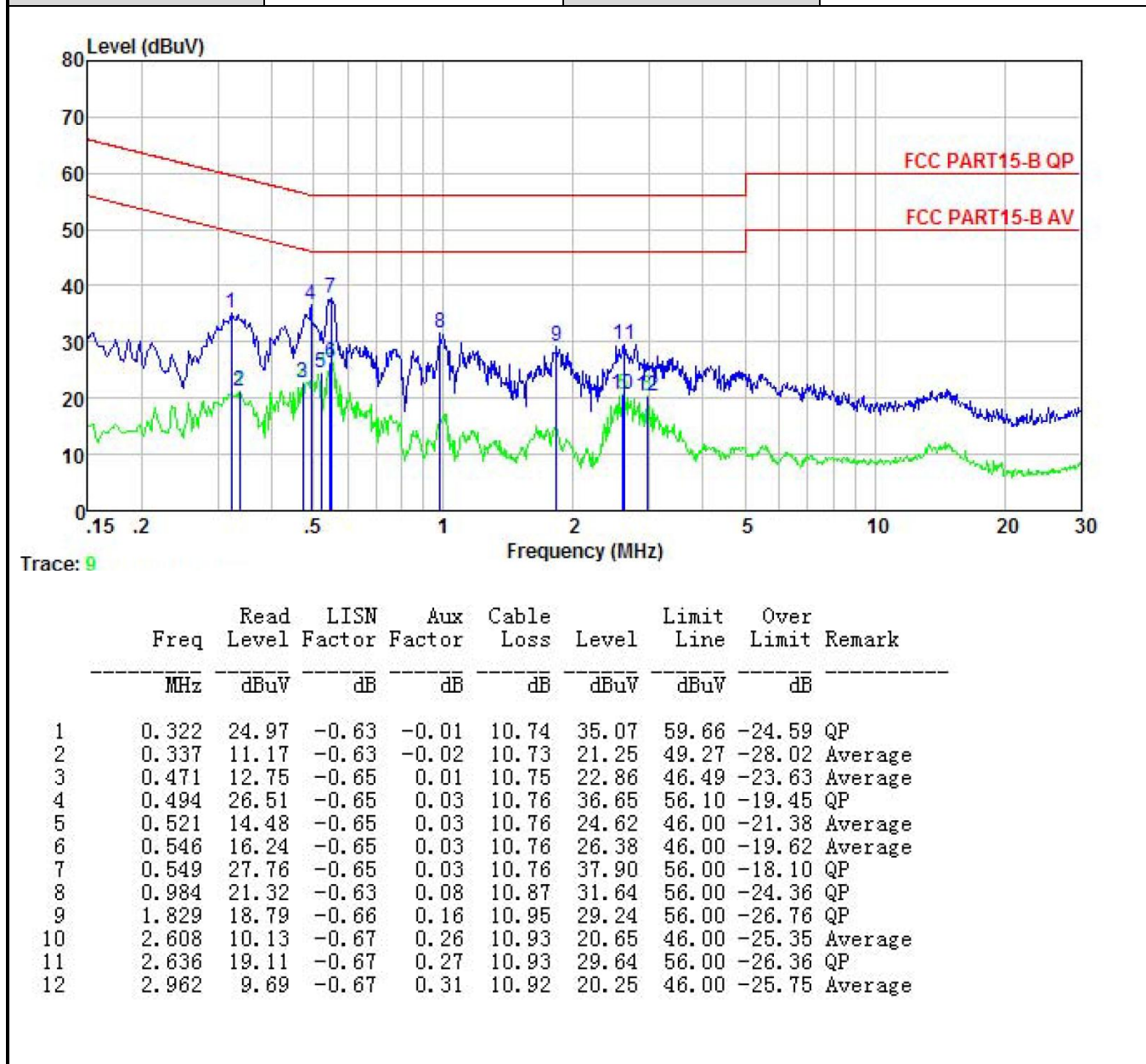
Trace: 44

	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.166	22.84	-0.44	-0.09	10.77	33.08	65.16	-32.08	QP
2	0.350	19.89	-0.38	0.10	10.73	30.34	58.96	-28.62	QP
3	0.461	12.51	-0.38	-0.06	10.74	22.81	46.67	-23.86	Average
4	0.497	22.26	-0.39	-0.32	10.76	32.31	56.05	-23.74	QP
5	0.535	14.10	-0.39	-0.36	10.76	24.11	46.00	-21.89	Average
6	0.585	12.70	-0.39	-0.37	10.76	22.70	46.00	-23.30	Average
7	1.197	15.83	-0.39	0.26	10.89	26.59	56.00	-29.41	QP
8	2.581	17.69	-0.43	-0.25	10.93	27.94	56.00	-28.06	QP
9	2.946	8.79	-0.44	-0.21	10.92	19.06	46.00	-26.94	Average
10	3.207	17.67	-0.45	-0.17	10.91	27.96	56.00	-28.04	QP
11	3.207	9.51	-0.45	-0.17	10.91	19.80	46.00	-26.20	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

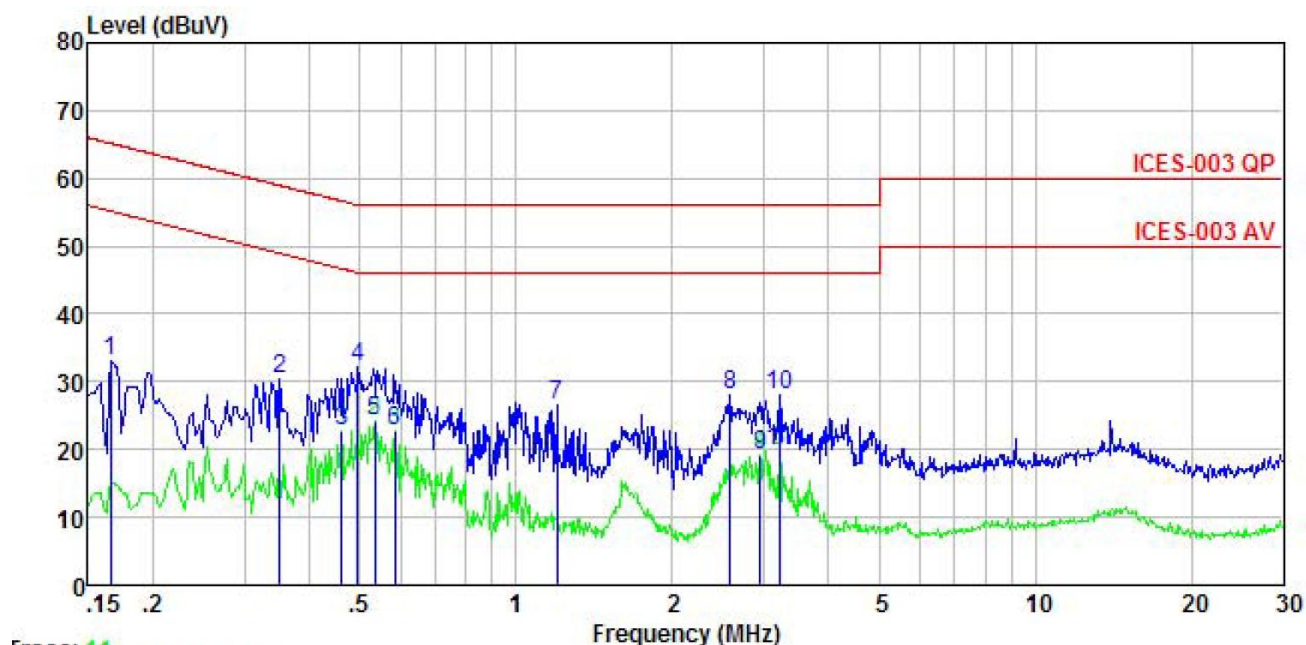
Product name:	C-One ² HF ASK	Product model:	C-One HF ASK
Test by:	Carey	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%



Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

Product name:	C-One ² HF ASK	Product model:	C-One HF ASK
Test by:	Carey	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%

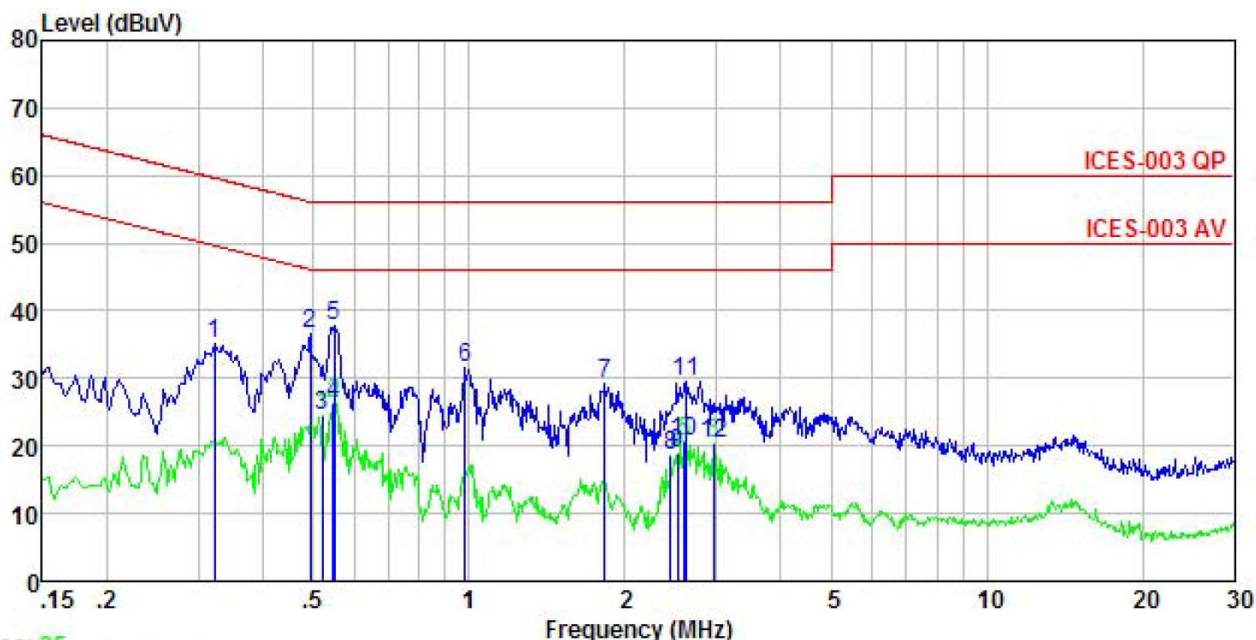


	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.166	22.84	-0.44	-0.09	10.77	33.08	65.16	-32.08	QP
2	0.350	19.89	-0.38	0.10	10.73	30.34	58.96	-28.62	QP
3	0.461	12.51	-0.38	-0.06	10.74	22.81	46.67	-23.86	Average
4	0.497	22.26	-0.39	-0.32	10.76	32.31	56.05	-23.74	QP
5	0.535	14.10	-0.39	-0.36	10.76	24.11	46.00	-21.89	Average
6	0.585	12.70	-0.39	-0.37	10.76	22.70	46.00	-23.30	Average
7	1.197	15.83	-0.39	0.26	10.89	26.59	56.00	-29.41	QP
8	2.581	17.69	-0.43	-0.25	10.93	27.94	56.00	-28.06	QP
9	2.946	8.79	-0.44	-0.21	10.92	19.06	46.00	-26.94	Average
10	3.207	17.67	-0.45	-0.17	10.91	27.96	56.00	-28.04	QP
11	3.207	9.51	-0.45	-0.17	10.91	19.80	46.00	-26.20	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

Product name:	C-One ² HF ASK	Product model:	C-One HF ASK
Test by:	Carey	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Humi: 55%

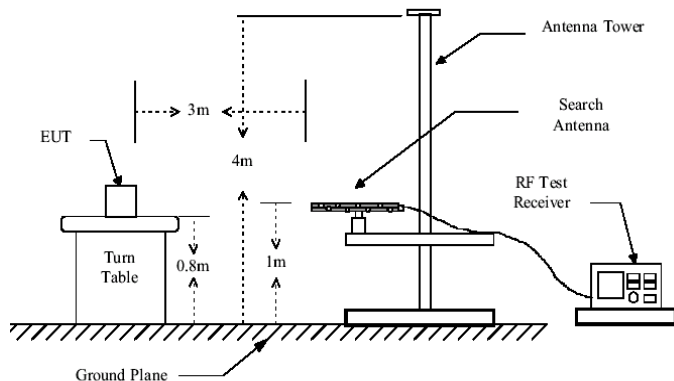
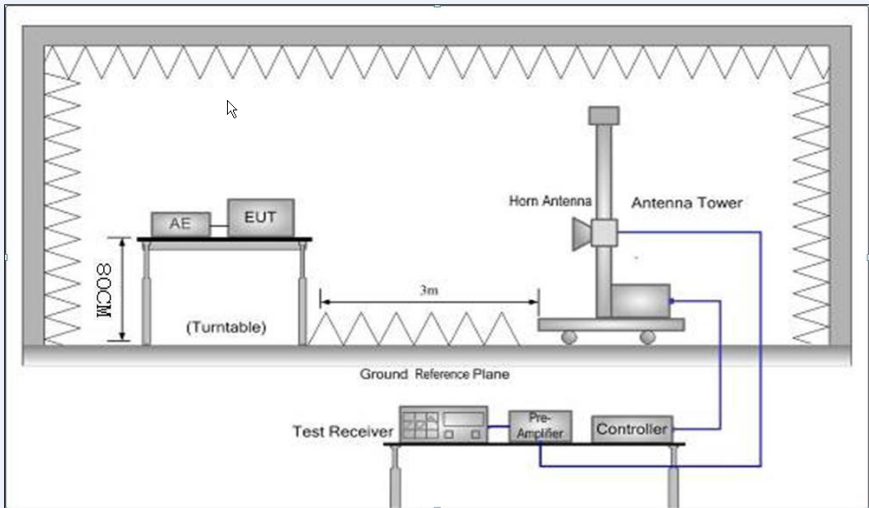


	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.322	24.97	-0.63	-0.01	10.74	35.07	59.66	-24.59	QP
2	0.494	26.51	-0.65	0.03	10.76	36.65	56.10	-19.45	QP
3	0.521	14.48	-0.65	0.03	10.76	24.62	46.00	-21.38	Average
4	0.546	16.24	-0.65	0.03	10.76	26.38	46.00	-19.62	Average
5	0.549	27.76	-0.65	0.03	10.76	37.90	56.00	-18.10	QP
6	0.984	21.32	-0.63	0.08	10.87	31.64	56.00	-24.36	QP
7	1.829	18.79	-0.66	0.16	10.95	29.24	56.00	-26.76	QP
8	2.448	8.19	-0.67	0.24	10.94	18.70	46.00	-27.30	Average
9	2.527	8.44	-0.67	0.25	10.94	18.96	46.00	-27.04	Average
10	2.608	10.13	-0.67	0.26	10.93	20.65	46.00	-25.35	Average
11	2.636	19.11	-0.67	0.27	10.93	29.64	56.00	-26.36	QP
12	2.962	9.69	-0.67	0.31	10.92	20.25	46.00	-25.75	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

6.2 Radiated Emission

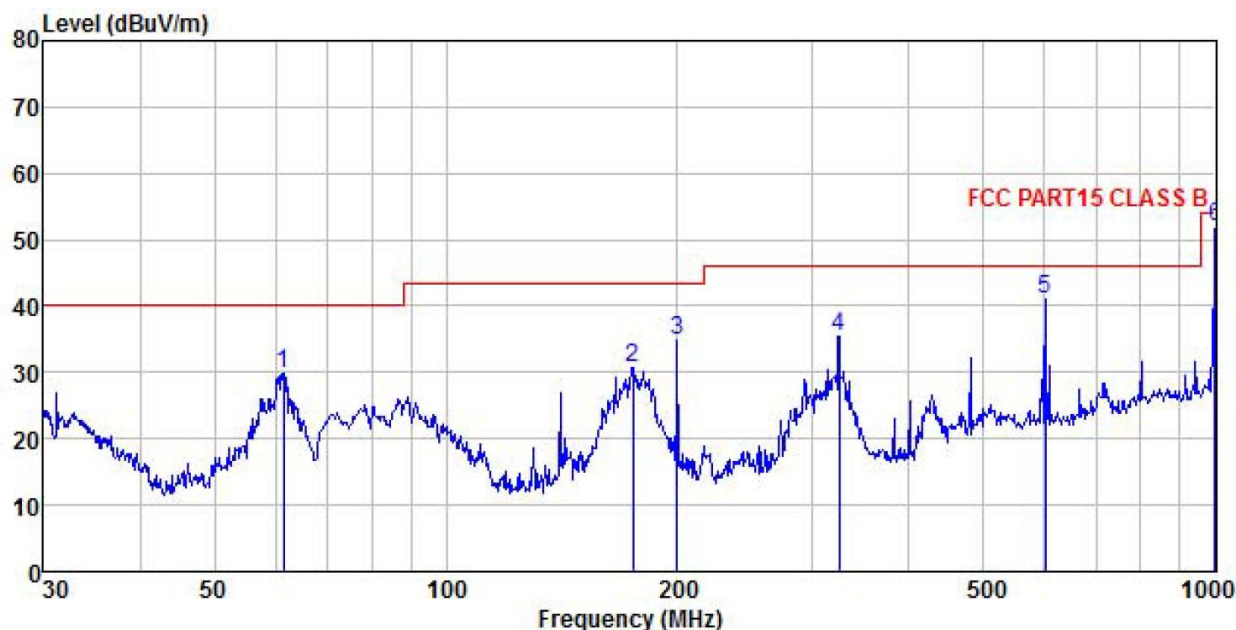
Test Requirement:	FCC Part 15 B Section 15.109 ICES-003 Section 6.2				
Test Method:	ANSI C63.4:2014				
Test Frequency Range:	30MHz to 6000MHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		54.0		Average Value
			74.0		Peak Value
Test setup:	Below 1GHz				
					
Test setup:	Above 1GHz				
					

Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.					
Test environment:	Temp.:	25 °C	Humid.:	55%	Press.:	1 01kPa
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	PASS					
Remark:	All of the observed value above 6GHz were the noise floor , which were no recorded					

Measurement Data:

Below 1GHz:

Product Name:	C-One ² HF ASK	Product Model:	C-One HF ASK
Test By:	Carey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

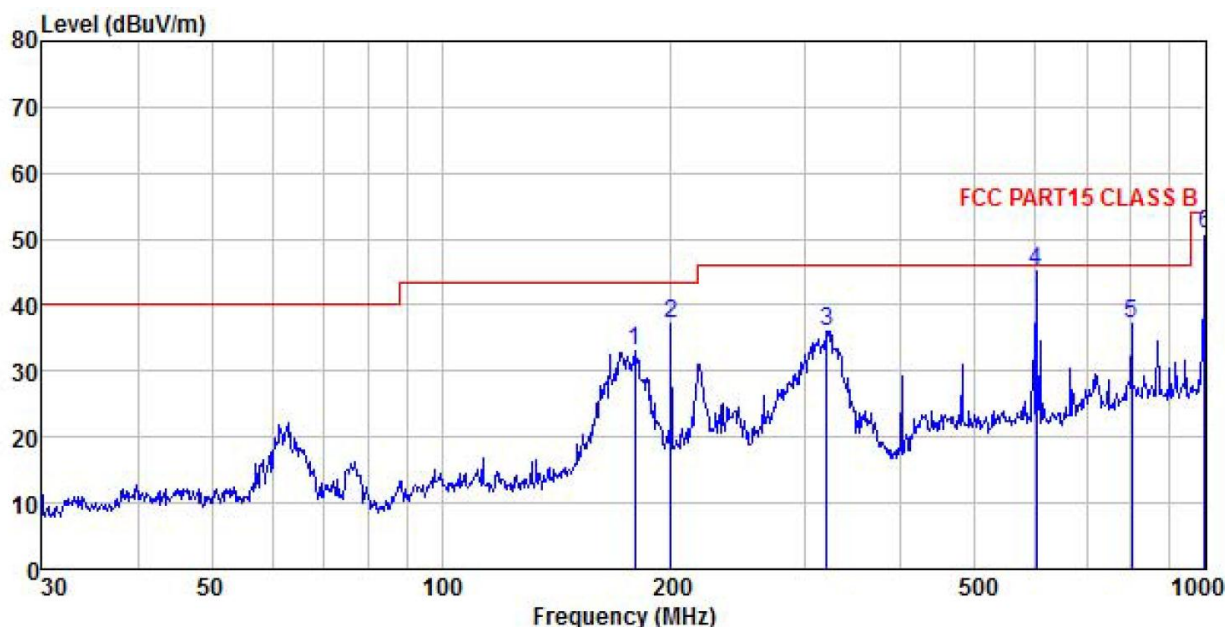


	Freq	Read Level	Antenna Factor	Cable Loss	Aux Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	61.562	47.41	10.83	1.38	0.00	29.77	29.85	40.00	-10.15	QP
2	175.037	47.28	9.81	2.69	0.00	29.01	30.77	43.50	-12.73	QP
3	199.986	50.31	10.60	2.87	0.00	28.83	34.95	43.50	-8.55	QP
4	324.456	46.89	14.11	3.02	0.00	28.51	35.51	46.00	-10.49	QP
5	601.427	46.56	19.51	3.94	0.00	28.93	41.08	46.00	-4.92	QP
6	1000.000	52.04	22.80	4.47	0.00	27.43	51.88	54.00	-2.12	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	C-One ² HF ASK	Product Model:	C-One HF ASK
Test By:	Carey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%



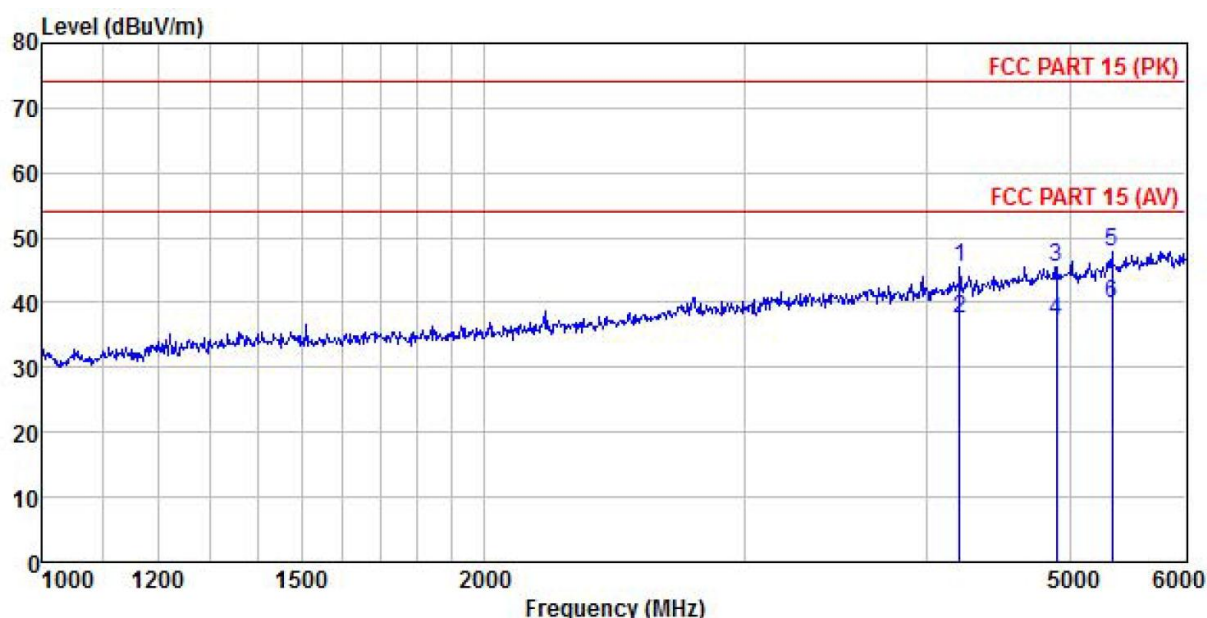
	Freq	ReadAntenna	Cable	Aux	Preamp	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss	Factor	Factor	Line	Limit	
		dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB
1	179.386	49.34	9.96	2.73	0.00	28.98	33.05	43.50	-10.45 QP
2	199.986	52.41	10.60	2.87	0.00	28.83	37.05	43.50	-6.45 QP
3	319.937	47.42	14.03	3.00	0.00	28.50	35.95	46.00	-10.05 QP
4	601.427	50.60	19.51	3.94	0.00	28.93	45.12	46.00	-0.88 QP
5	801.786	39.52	21.50	4.34	0.00	28.19	37.17	46.00	-8.83 QP
6	1000.000	50.82	22.80	4.47	0.00	27.43	50.66	54.00	-3.34 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Above 1GHz:

Product Name:	C-One ² HF ASK	Product Model:	C-One HF ASK
Test By:	Carey	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

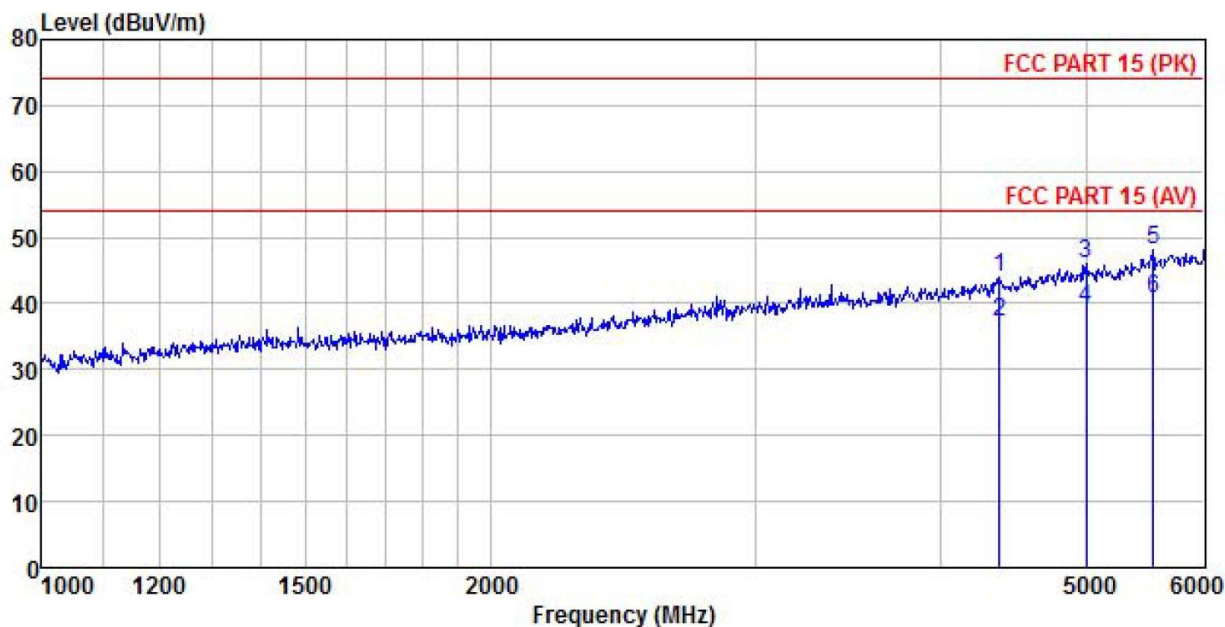


	Freq	ReadAntenna	Cable	Aux	Preamp	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss	Factor	Factor	Line	Limit	
	MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB
1	4208.015	49.37	29.64	5.92	2.27	41.81	45.39	74.00	-28.61 Peak
2	4208.015	41.39	29.64	5.92	2.27	41.81	37.41	54.00	-16.59 Average
3	4900.271	47.48	30.99	6.48	2.47	41.85	45.57	74.00	-28.43 Peak
4	4900.271	39.10	30.99	6.48	2.47	41.85	37.19	54.00	-16.81 Average
5	5340.371	48.12	31.97	6.87	2.61	41.89	47.68	74.00	-26.32 Peak
6	5340.371	40.25	31.97	6.87	2.61	41.89	39.81	54.00	-14.19 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor.
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	C-One ² HF ASK	Product Model:	C-One HF ASK
Test By:	Carey	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%



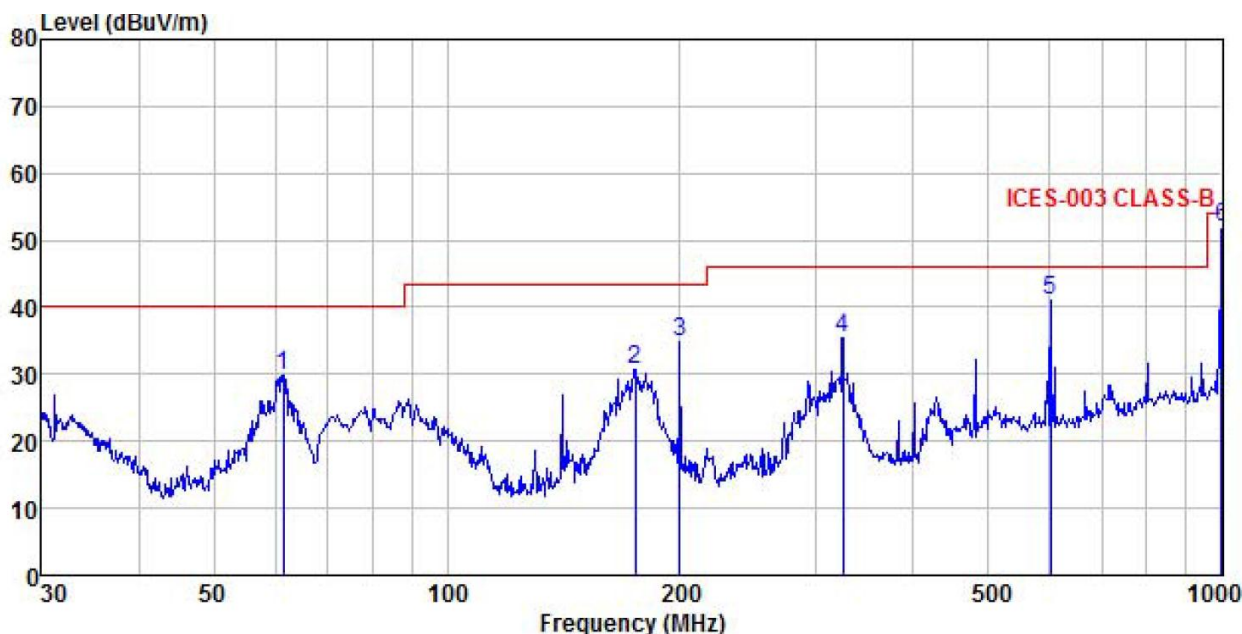
	Read	Antenna	Cable	Aux	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
-----MHz	-----dBuV	-----dB/m	-----dB	-----dB	-----dB	dBuV/m	dBuV/m	-----dB
1	4377.203	47.69	29.92	6.05	2.32	41.95	44.03	74.00 -29.97 Peak
2	4377.203	40.76	29.92	6.05	2.32	41.95	37.10	54.00 -16.90 Average
3	4997.811	47.69	31.20	6.56	2.50	41.88	46.07	74.00 -27.93 Peak
4	4997.811	40.97	31.20	6.56	2.50	41.88	39.35	54.00 -14.65 Average
5	5545.141	48.06	32.32	7.02	2.66	41.81	48.25	74.00 -25.75 Peak
6	5545.141	40.49	32.32	7.02	2.66	41.81	40.68	54.00 -13.32 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor.
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Below 1GHz:

Product Name:	C-One ² HF ASK	Product Model:	C-One HF ASK
Test By:	Carey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

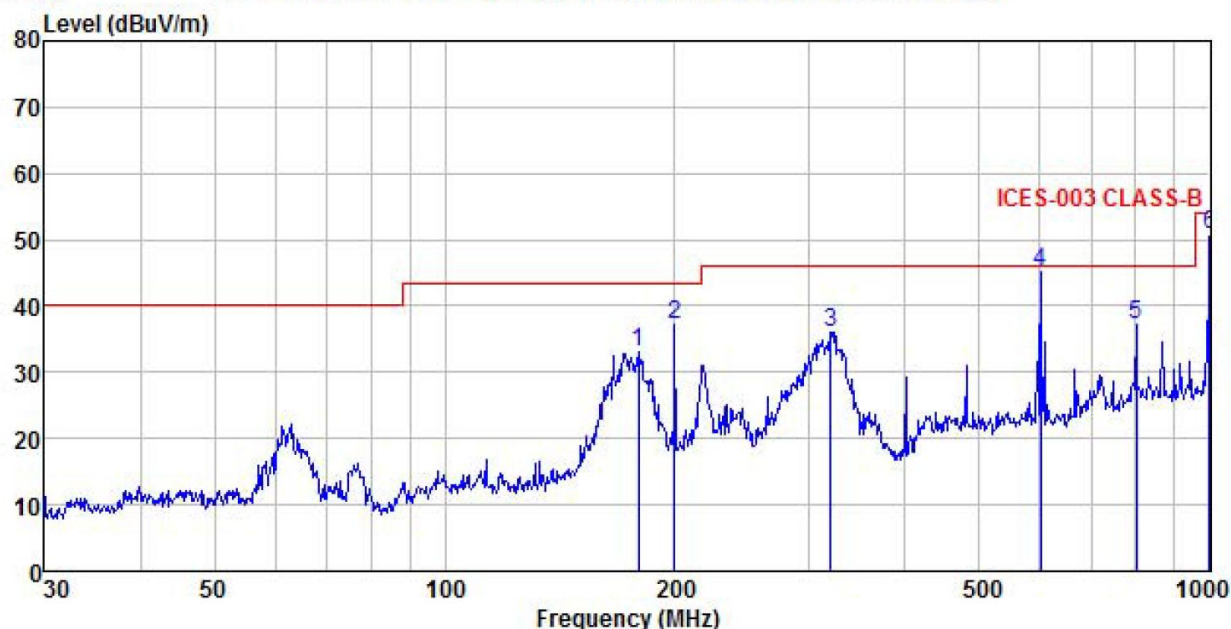


	Freq	ReadAntenna	Cable	Aux	Preamp	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss	Factor	Factor	Line	Limit	
		dBuV	dB/m	dB		dB	dBuV/m	dBuV/m	dB
1	61.562	47.76	10.48	1.38	0.00	29.77	29.85	40.00	-10.15 QP
2	175.037	40.29	16.80	2.69	0.00	29.01	30.77	43.50	-12.73 QP
3	199.986	42.61	18.30	2.87	0.00	28.83	34.95	43.50	-8.55 QP
4	324.456	42.25	18.75	3.02	0.00	28.51	35.51	46.00	-10.49 QP
5	601.427	46.16	19.91	3.94	0.00	28.93	41.08	46.00	-4.92 QP
6	1000.000	51.74	23.10	4.47	0.00	27.43	51.88	54.00	-2.12 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	C-One ² HF ASK	Product Model:	C-One HF ASK
Test By:	Carey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%



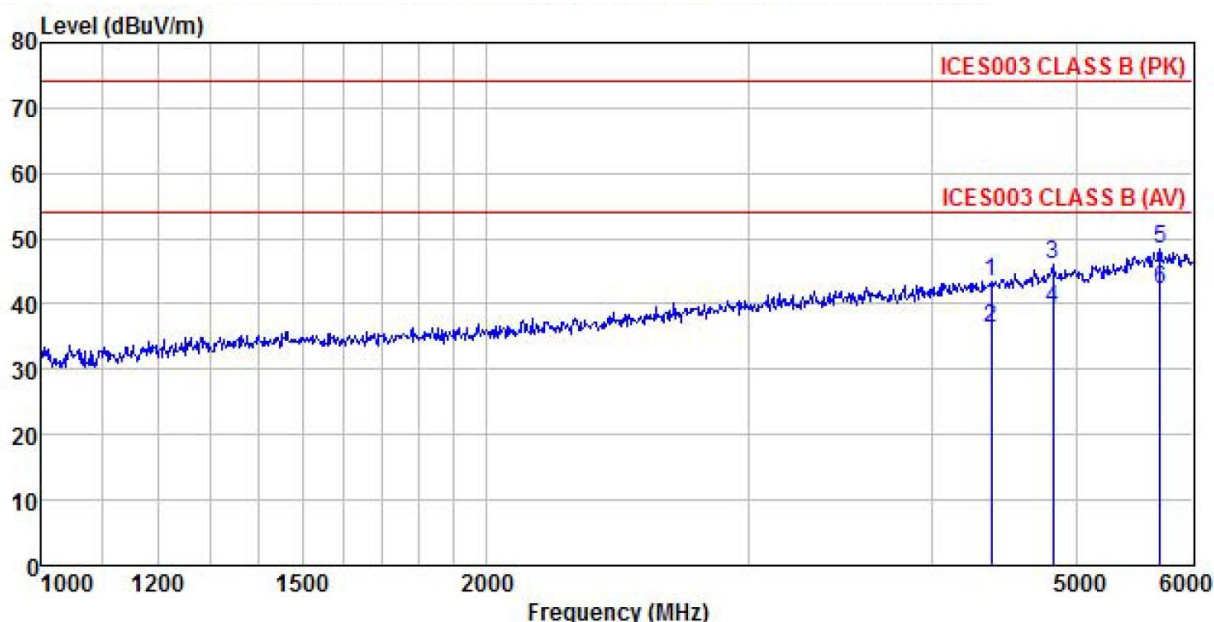
	Freq	Read	Antenna	Cable	Aux	Preamp	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss	Factor	Factor	Level	Line	Limit	
		dBuV	dB/m	dB		dB	dBuV/m	dBuV/m	dB	
1	179.386	42.41	16.89	2.73	0.00	28.98	33.05	43.50	-10.45	QP
2	199.986	44.71	18.30	2.87	0.00	28.83	37.05	43.50	-6.45	QP
3	319.937	42.71	18.74	3.00	0.00	28.50	35.95	46.00	-10.05	QP
4	601.427	50.20	19.91	3.94	0.00	28.93	45.12	46.00	-0.88	QP
5	801.786	40.09	20.93	4.34	0.00	28.19	37.17	46.00	-8.83	QP
6	1000.000	50.52	23.10	4.47	0.00	27.43	50.66	54.00	-3.34	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Above 1GHz:

Product Name:	C-One ² HF ASK	Product Model:	C-One HF ASK
Test By:	Carey	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

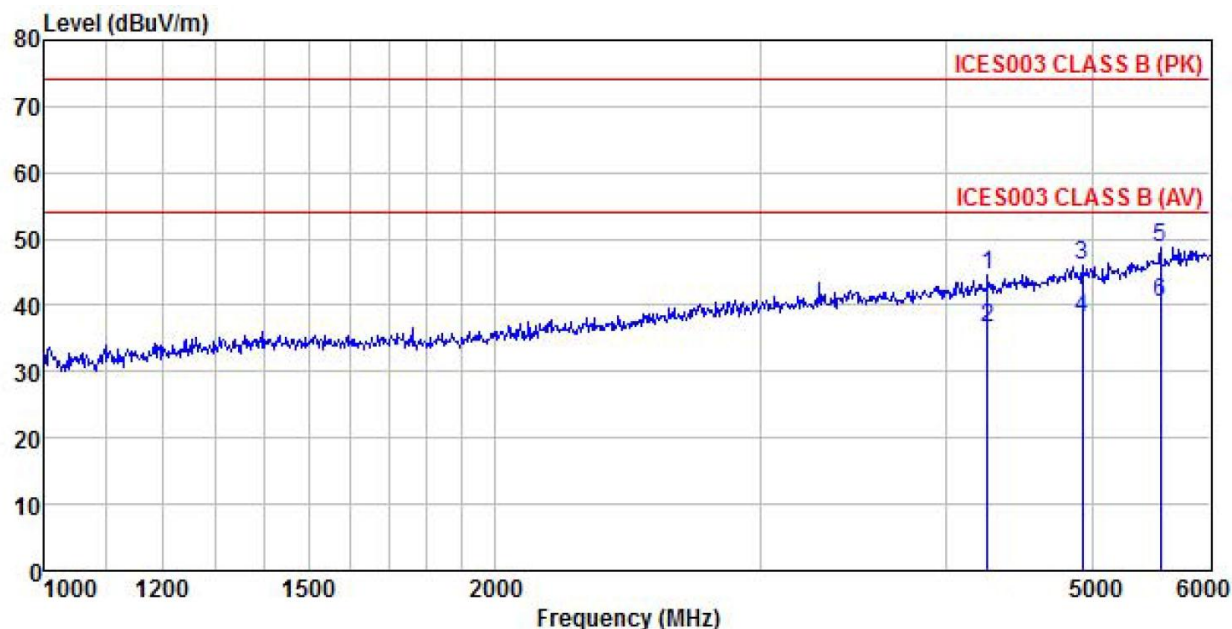


	Freq	ReadAntenna	Cable	Aux	Preamp	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss	Factor	Factor	dBuV/m	dBuV/m	dB
		dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB
1	4385.052	47.11	29.92	6.05	2.32	41.95	43.45	74.00	-30.55 Peak
2	4385.052	40.09	29.92	6.05	2.32	41.95	36.43	54.00	-17.57 Average
3	4821.884	48.31	30.81	6.41	2.44	41.82	46.15	74.00	-27.85 Peak
4	4821.884	41.44	30.81	6.41	2.44	41.82	39.28	54.00	-14.72 Average
5	5696.195	48.20	32.38	7.09	2.70	41.90	48.47	74.00	-25.53 Peak
6	5696.195	41.95	32.38	7.09	2.70	41.90	42.22	54.00	-11.78 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor.
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	C-One ² HF ASK	Product Model:	C-One HF ASK
Test By:	Carey	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%



	Freq	Read	Antenna	Cable	Aux	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Factor	dBuV/m	Line	Limit	Remark
		dBuV	dB/m	dB		dB	dBuV/m	dBuV/m	dB	
1	4261.126	48.53	29.74	5.97	2.29	41.86	44.67	74.00	-29.33	Peak
2	4261.126	40.35	29.74	5.97	2.29	41.86	36.49	54.00	-17.51	Average
3	4926.683	47.95	31.05	6.50	2.48	41.86	46.12	74.00	-27.88	Peak
4	4926.683	39.86	31.05	6.50	2.48	41.86	38.03	54.00	-15.97	Average
5	5555.085	48.53	32.32	7.02	2.66	41.81	48.72	74.00	-25.28	Peak
6	5555.085	40.24	32.32	7.02	2.66	41.81	40.43	54.00	-13.57	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor.
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.