

Test Report

FCC Part15 Subpart C

Product Name : ZC179 module
Model No. : ZC179
FCC ID : 2AJVONLS20160926

Applicant : Nordic Light (Suzhou) Co., Ltd
Address : No 53 East Loufeng District, Suzhou, Industrial Park
Suzhou, 215 123 China

Date of Receipt : Sep. 22, 2016
Test Date : Sep. 22, 2016~ Oct. 12, 2016
Issued Date : Oct. 25, 2016
Report No. : 1692081R-RF-US-P06V01
Report Version : V2.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report Certification

Issued Date : Oct. 25, 2016

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Applicant : Nordic Light (Suzhou) Co., Ltd
Address : No 53 East Loufeng District, Suzhou, Industrial Park
Suzhou, 215 123 China
Manufacturer : Nordic Light (Suzhou) Co., Ltd
Address : No 53 East Loufeng District, Suzhou, Industrial Park
Suzhou, 215 123 China
Model No. : ZC179
FCC ID : 2AJVONLS20160926
EUT Voltage : AC 110-240V; 50/60Hz; 1W
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C
ANSI C63.4:2014
Test Result : Complied
Performed Location : Quietek Corporation - Suzhou EMC Laboratory
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006,
Jiangsu, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
FCC Registration Number: 800392

Documented By :

Kathy Feng

(Adm. Specialist: Kathy Feng)

Reviewed By :

Jack Zhang

(Senior Engineer: Jack Zhang)

Approved By :

Harry Zhao

(Engineering Manager : Harry Zhao)

Laboratory Information

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	:	BSMI, NCC, TAF
USA	:	FCC
Japan	:	VCCI
China	:	CNAS

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://www.quietek.com/english/about/certificates.aspx?bval=5>
The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/index_en.aspx

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory :

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.
TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com

LinKou Testing Laboratory :

No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.
TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com

Suzhou Testing Laboratory :

No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China
TEL : +86-512-6251-5088 / FAX : 86-512-6251-5098 E-Mail : service@quietek.com

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1692081R-RF-US-P06V01	V1.0	Initial Issued Report	Oct. 12, 2016
1692081R-RF-US-P06V01	V2.0	<p>1, On page 7, adds host device description.</p> <p>2, On page 8, Updates the test setup diagram.</p> <p>3, On page 20, Updates the RBW description.</p>	Oct. 25, 2016

1. General Information

1.1. EUT Description

Product Name	ZC179 module
Model No.	ZC179
EUT Voltage	AC 110-240V; 50/60Hz; 1W
Frequency Range	125kHz
Type of Modulation	OOK
Data Rate	1.95KBps
Channel Control	Auto

1.2. Mode of Operation

Test Modes List
Mode 1: Transmit

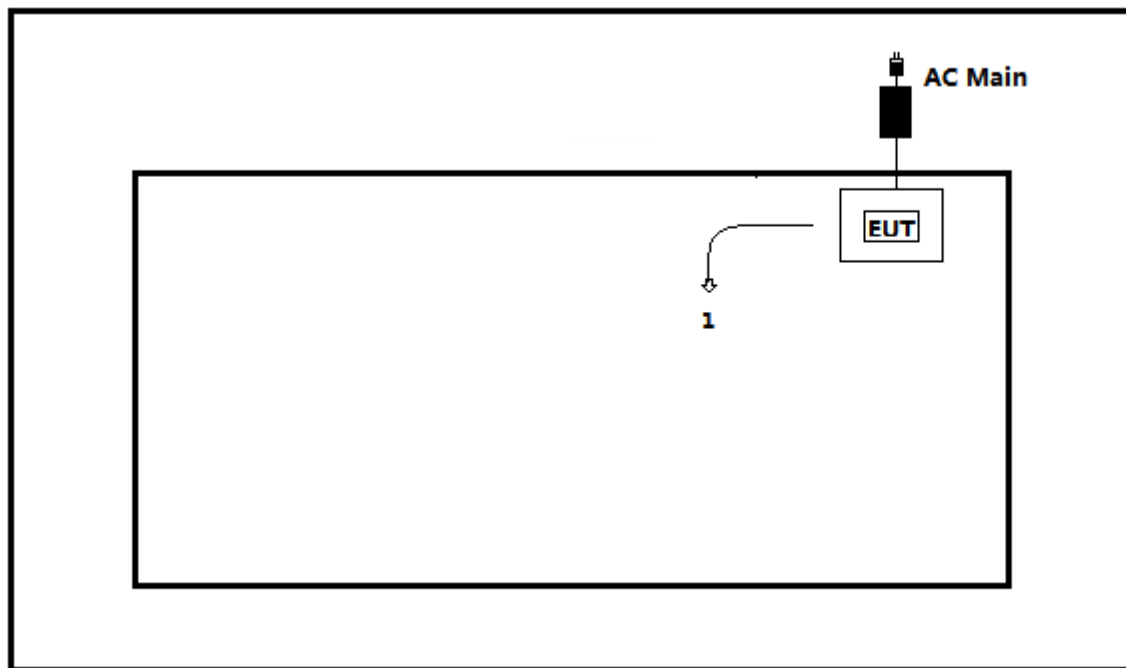
1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

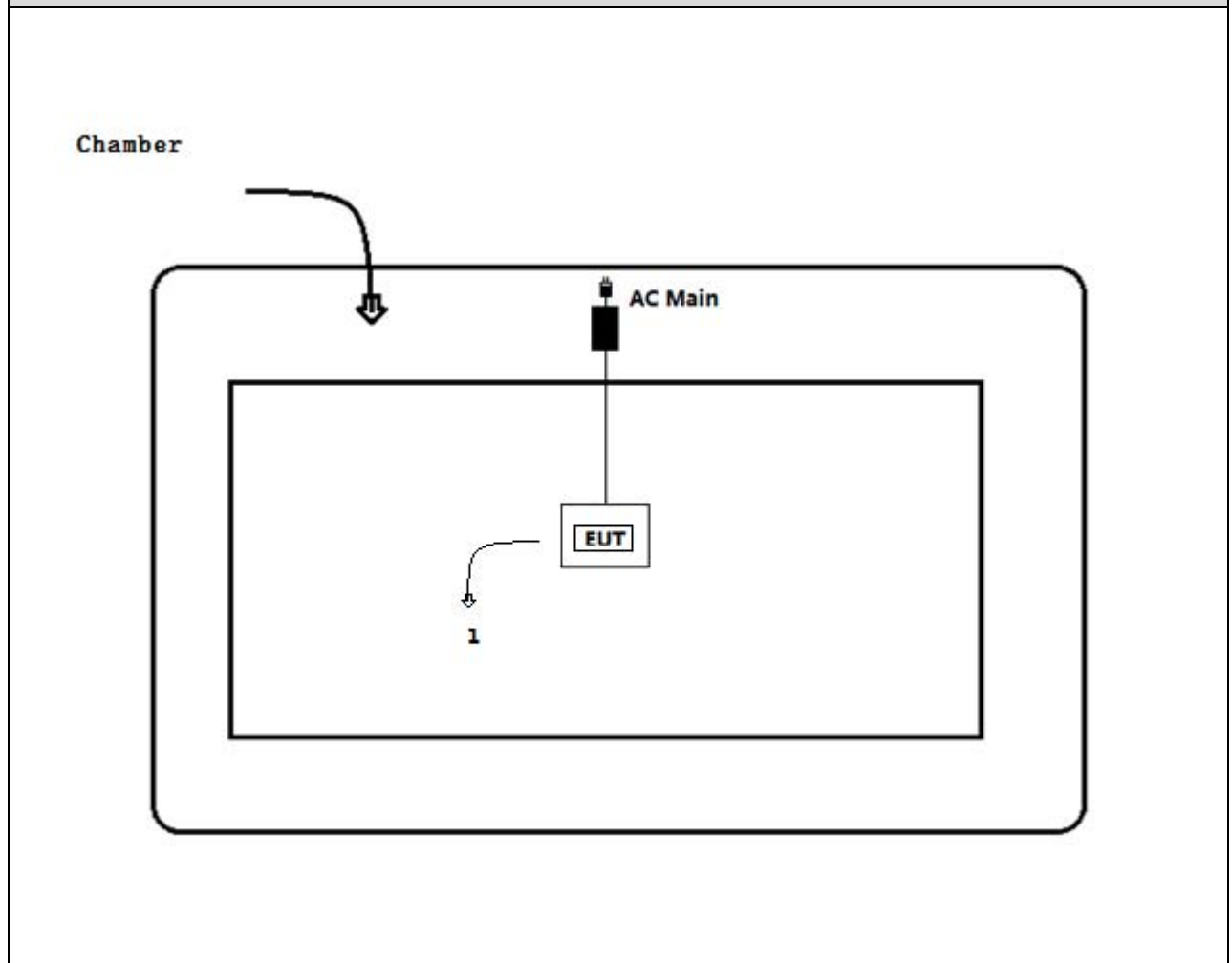
No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Contral board MKII	N/A	10326-20	N/A	N/A

1.4. Configuration of Tested System

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission



2. Technical Test

2.1. Summary of Test Result

Performed Test Item	Normative References	Limit	Result
AC Power Line Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.207	FCC 15.207	PASS
Emissions in restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.209	FCC 15.209	PASS

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

2.3. Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	$\pm 2.02\text{dB}$
Radiated Emission	Below 1GHz $\pm 3.8\text{ dB}$
	Above 1GHz $\pm 3.9\text{ dB}$
RF Antenna Port Conducted Emission	$\pm 1.27\text{dB}$
Radiated Emission Band Edge	$\pm 3.9\text{dB}$
Occupied Bandwidth	$\pm 1\text{kHz}$
Power Spectral Density	$\pm 1.27\text{dB}$

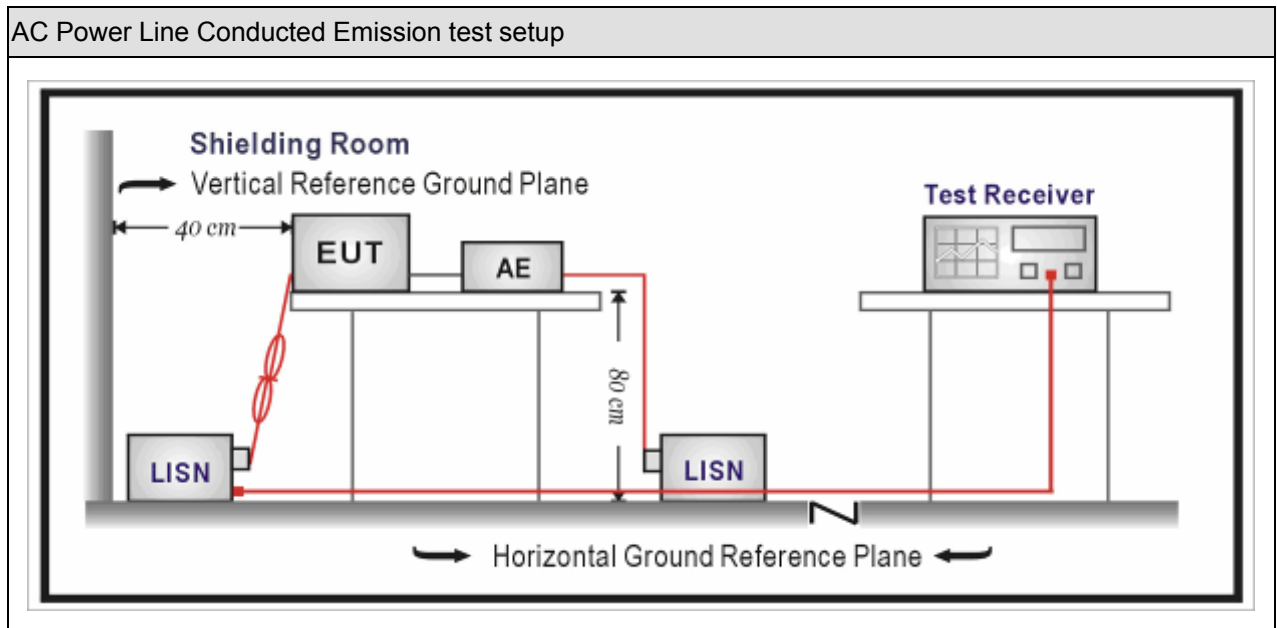
3. AC Power Line Conducted Emission

3.1. Test Equipment

AC Power Line Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100906	2016.03.05	2017.03.05
Two-Line V-Network	R&S	ENV 216	101189	2016.07.16	2017.07.16
Two-Line V-Network	R&S	ENV 216	101044	2016.09.16	2017.09.16
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081402	2016.09.16	2017.09.16
Temperature/Humidity Meter	Zhichen	ZC1-2	TR1-TH	2016.01.05	2017.01.05

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup



3.3. Limit

Frequency of Emission (MHz)	Conducted Limit	
	Quasi-peak (dB μ V)	Average (dB μ V)
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Note 1: The lower limit shall apply at the transition frequencies.		
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		

3.4. Test Procedure

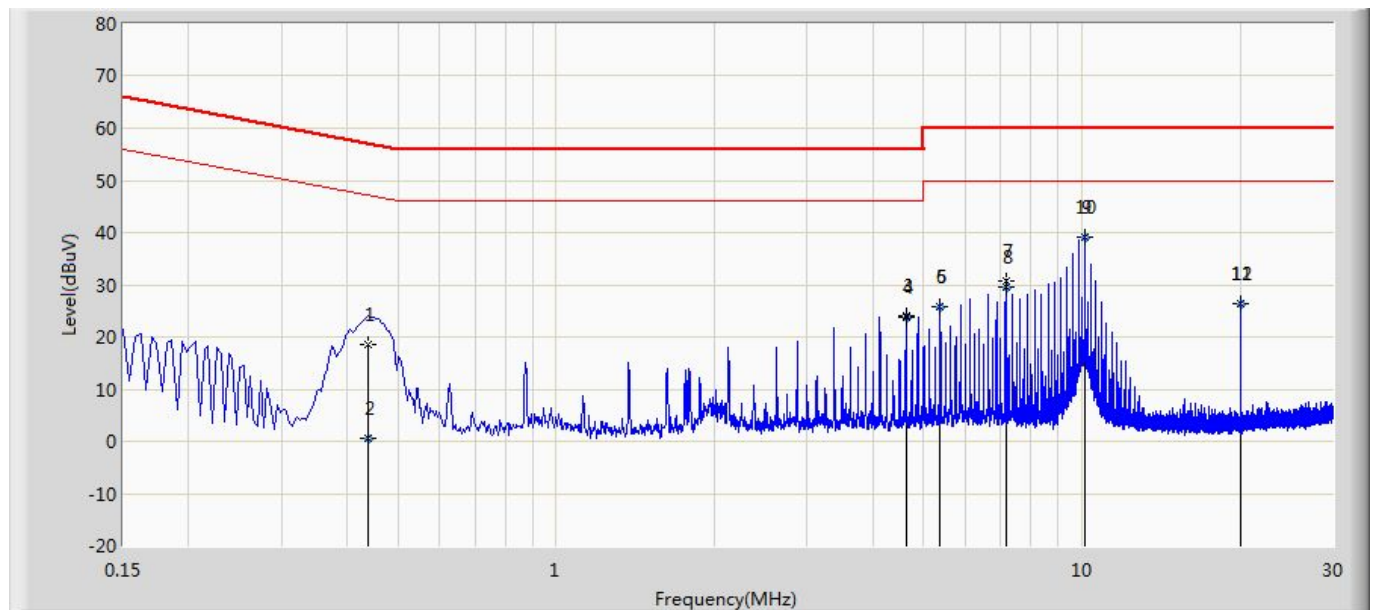
The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50Ω / 50μ H coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50Ω / 50μ H coupling impedance with 50Ω termination. (Please refer to the block diagram of the test setup and photographs.)

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 on conducted measurement.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Test Result

Engineer: king	
Site: TR1	Time: 2016/10/12
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Line
EUT: ZC179 module	Power: AC 120V/60Hz
Note: Mode 1: Transmit	

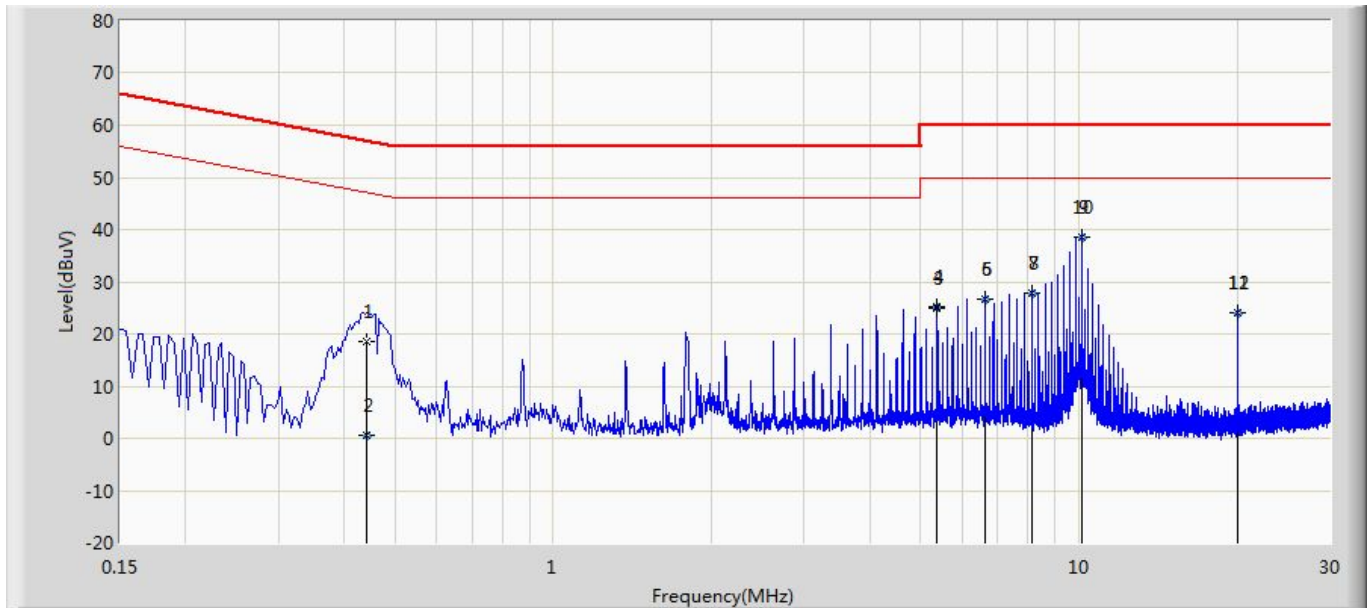


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.438	18.662	9.029	-38.438	57.100	9.590	0.042	0.000	QP
2		0.438	0.460	-9.172	-46.639	47.100	9.590	0.042	0.000	AV
3		4.626	24.070	14.319	-31.930	56.000	9.619	0.132	0.000	QP
4		4.626	23.822	14.070	-22.178	46.000	9.619	0.132	0.000	AV
5		5.374	25.655	15.885	-34.345	60.000	9.624	0.146	0.000	QP
6		5.374	25.746	15.976	-24.254	50.000	9.624	0.146	0.000	AV
7		7.194	30.792	20.975	-29.208	60.000	9.640	0.177	0.000	QP
8		7.194	29.696	19.879	-20.304	50.000	9.640	0.177	0.000	AV
9		10.126	39.118	29.269	-20.882	60.000	9.640	0.208	0.000	QP
10	*	10.126	39.034	29.186	-10.966	50.000	9.640	0.208	0.000	AV
11		20.002	26.281	16.353	-33.719	60.000	9.630	0.298	0.000	QP
12		20.002	26.409	16.481	-23.591	50.000	9.630	0.298	0.000	AV

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Engineer: king	
Site: TR1	Time: 2016/10/12
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Neutral
EUT: ZC179 module	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.442	18.693	9.072	-38.331	57.024	9.578	0.043	0.000	QP
2		0.442	0.514	-9.107	-46.510	47.024	9.578	0.043	0.000	AV
3		5.374	25.055	15.295	-34.945	60.000	9.614	0.146	0.000	QP
4		5.374	25.153	15.393	-24.847	50.000	9.614	0.146	0.000	AV
5		6.626	26.758	16.965	-33.242	60.000	9.626	0.167	0.000	QP
6		6.626	26.589	16.796	-23.411	50.000	9.626	0.167	0.000	AV
7		8.126	27.969	18.153	-32.031	60.000	9.634	0.182	0.000	QP
8		8.126	27.888	18.072	-22.112	50.000	9.634	0.182	0.000	AV
9		10.126	38.694	28.845	-21.306	60.000	9.640	0.208	0.000	QP
10	*	10.126	38.595	28.746	-11.405	50.000	9.640	0.208	0.000	AV
11		20.002	24.044	14.076	-35.956	60.000	9.670	0.298	0.000	QP
12		20.002	24.182	14.214	-25.818	50.000	9.670	0.298	0.000	AV

Note:

1. " * ", means this data is the worst emission level.

2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

4. Radiated Emission

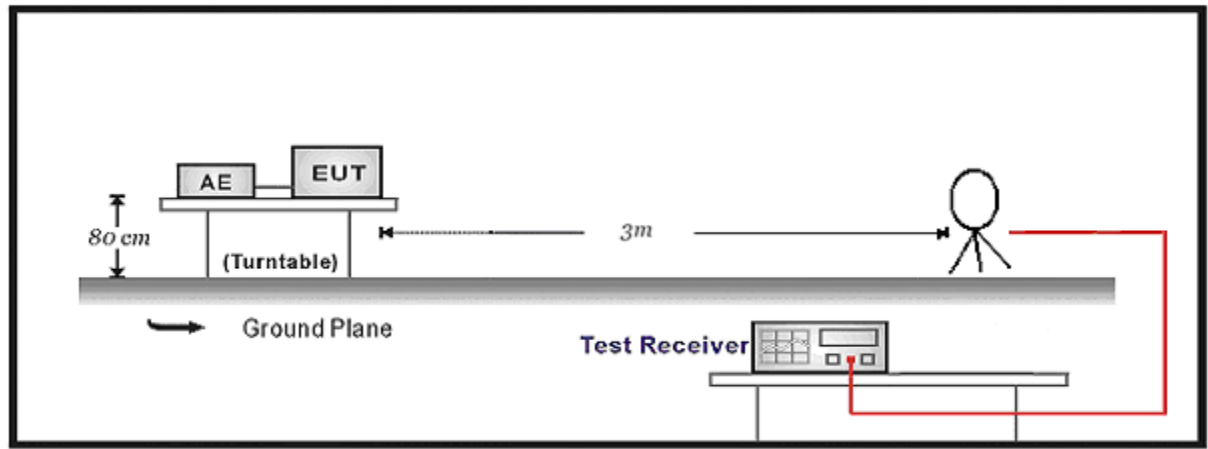
4.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2016.03.29	2017.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2015.11.16	2016.11.17
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2015.10.16	2016.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2017.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2016.01.04	2017.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

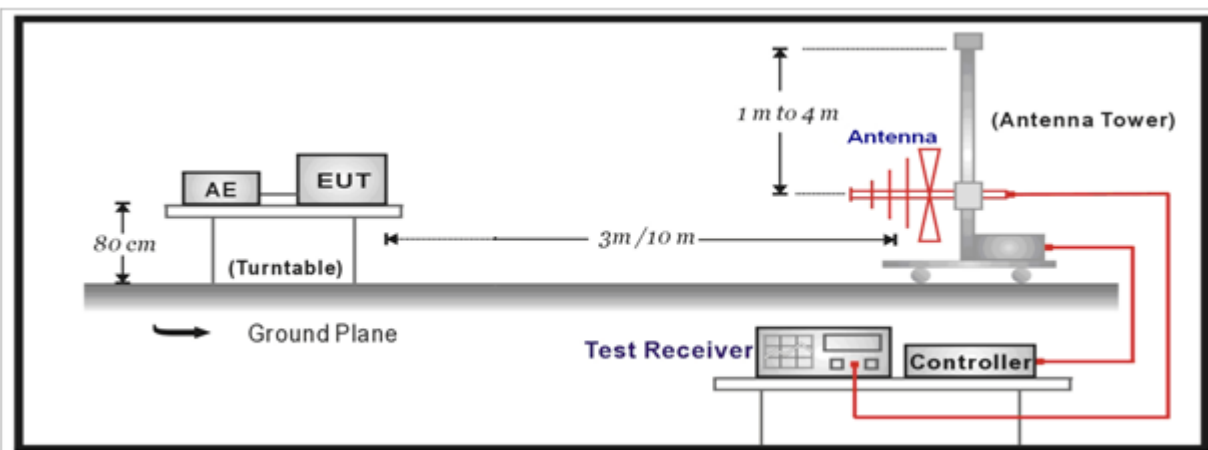
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2016.05.06	2017.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2016.05.06	2017.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2015.11.25	2016.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2016.06.10	2017.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.04	2017.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

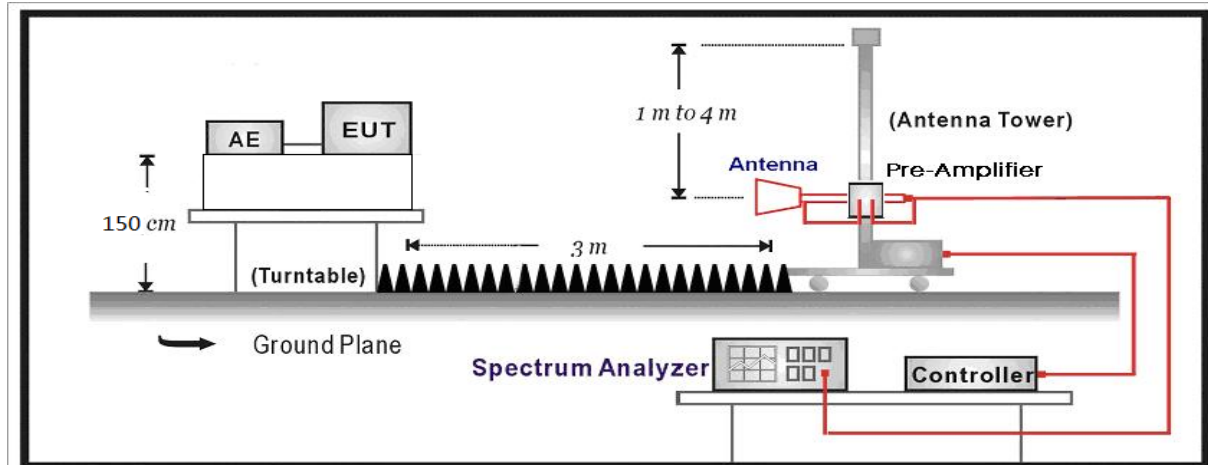
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

Restricted Bands of operation			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

Restricted Band Emissions Limit			
Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.4. Test Procedure

The EUT and its simulators are placed on a turntable which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

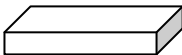
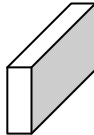
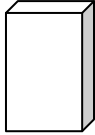
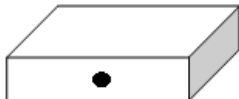


Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be changed during radiated measurement.

The bandwidth from 9K to 150K setting on the receiver is 200Hz, from 150K to 30MHz setting on the receiver is 9KHz and from 30MHz to 1G on the receiver is 120KHz and above 1GHz is 1MHz.

On any frequency or frequencies below or equal to 1000MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000MHz, the radiated limits shown are based measuring equipment employing an average detector function.

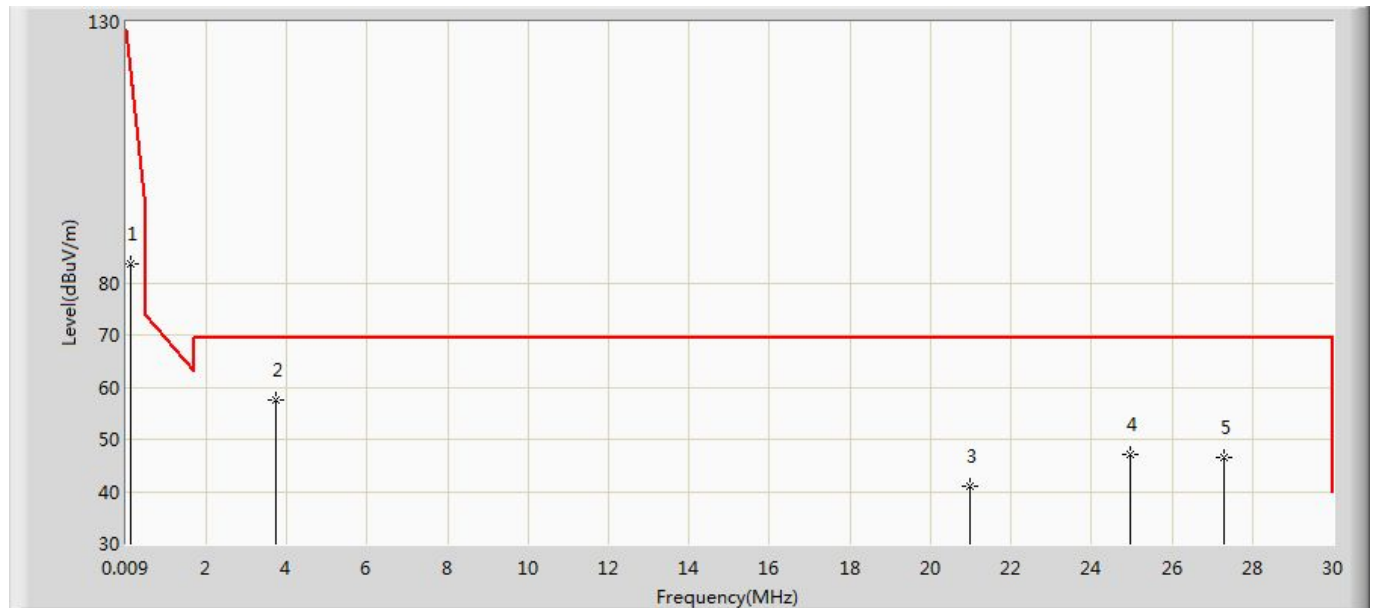
When average radiated emission measurement are included emission measurement Above 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

4.5. EUT test Axis definition

Item	Radiated Emissions			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1			
Test method	<input checked="" type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input checked="" type="checkbox"/>
	<input type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

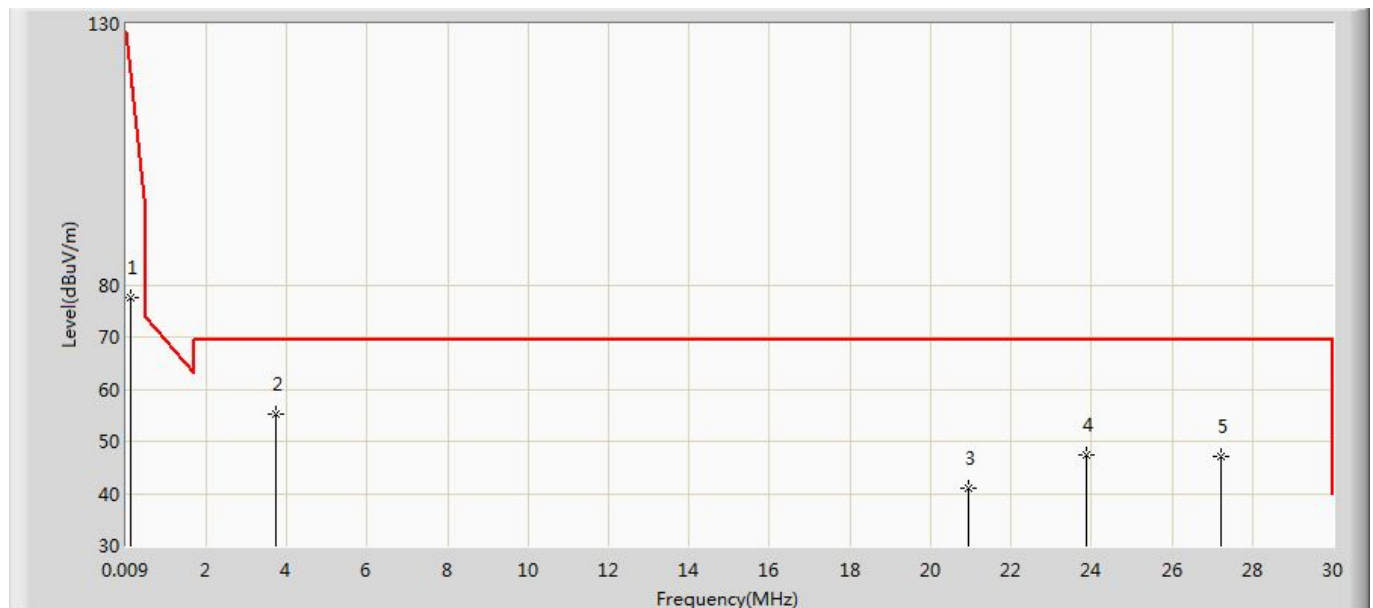
4.6. Test Result

Engineer: Cloud	
Site: AC2	Time: 2016/10/12 - 16:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HFH2-Z2_833799(0.009-30MHz)	Polarity: Horizontal
EUT: ZC179 module	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



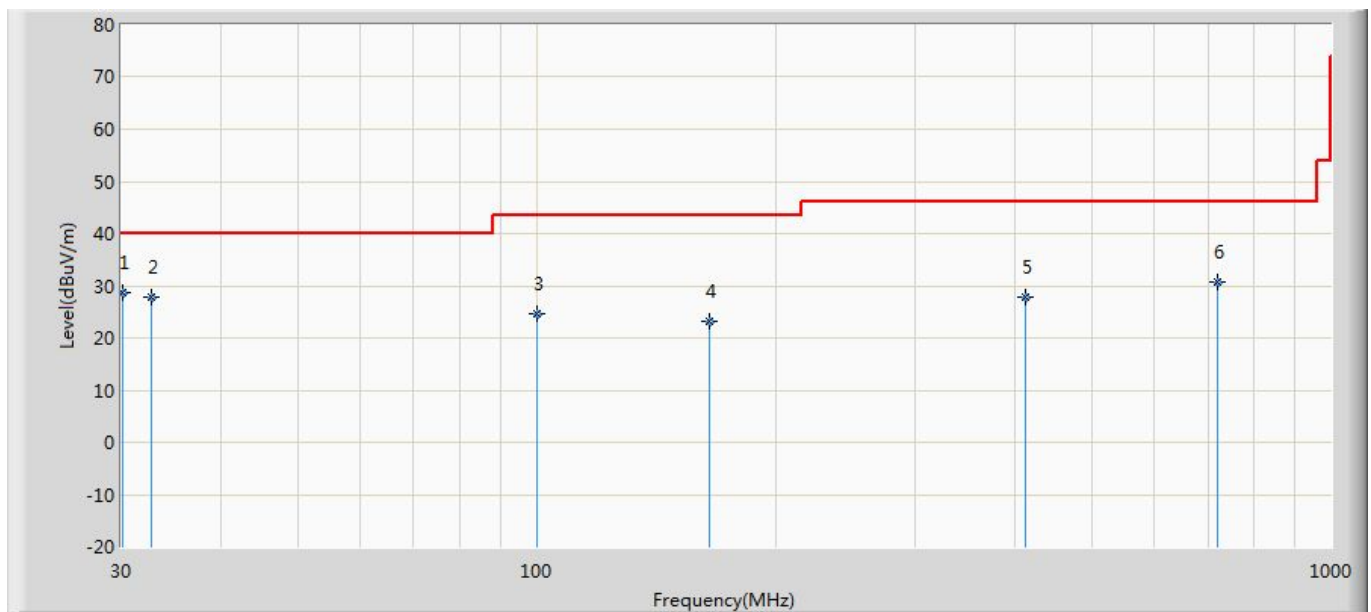
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.125	83.500	112.143	-22.159	105.659	-28.643	AV
2	*	3.720	57.640	87.446	-11.860	69.500	-29.805	QP
3		20.970	41.030	70.923	-28.470	69.500	-29.893	QP
4		24.980	47.110	76.228	-22.390	69.500	-29.118	QP
5		27.310	46.380	75.737	-23.120	69.500	-29.357	QP

Engineer: Cloud	
Site: AC2	Time: 2016/10/12 - 16:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HFH2-Z2_833799(0.009-30MHz)	Polarity: Vertical
EUT: ZC179 module	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



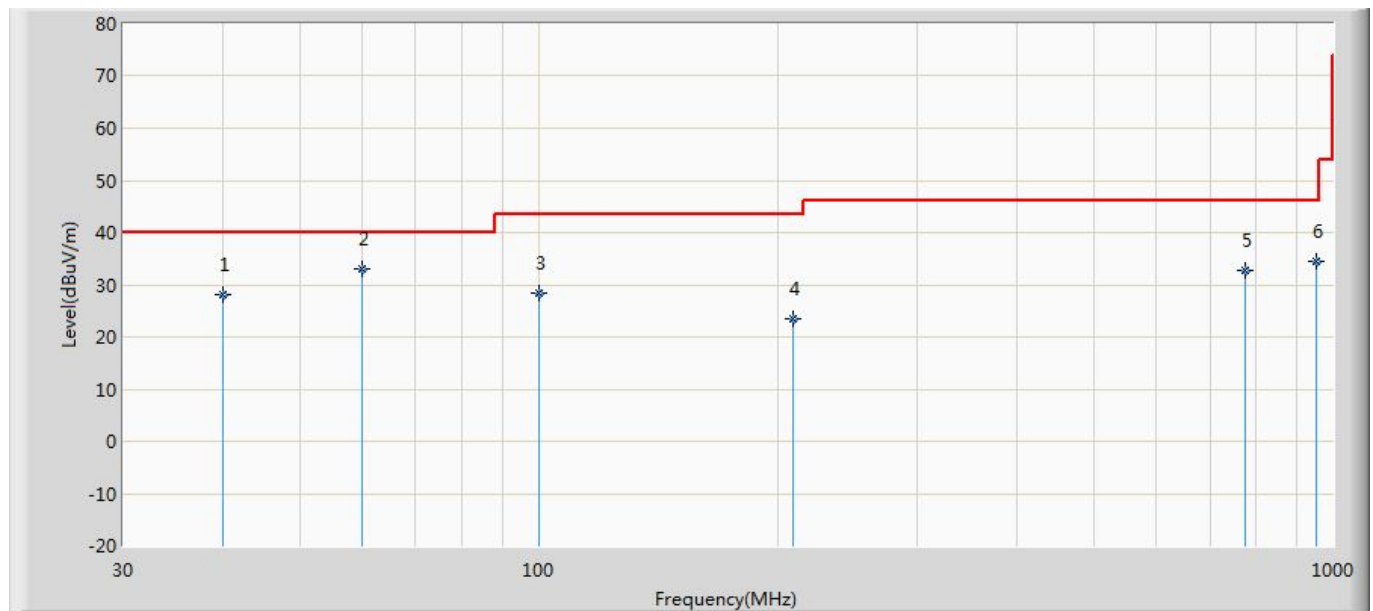
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.125	77.600	106.243	-28.059	105.659	-28.643	AV
2	*	3.720	55.140	84.946	-14.360	69.500	-29.805	QP
3		20.960	41.030	70.923	-28.470	69.500	-29.893	QP
4		23.890	47.490	76.818	-22.010	69.500	-29.328	QP
5		27.230	47.200	76.548	-22.300	69.500	-29.348	QP

Engineer: Bill	
Site: AC3	Time: 2016/10/12 - 11:10
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Horizontal
EUT: ZC179 module	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



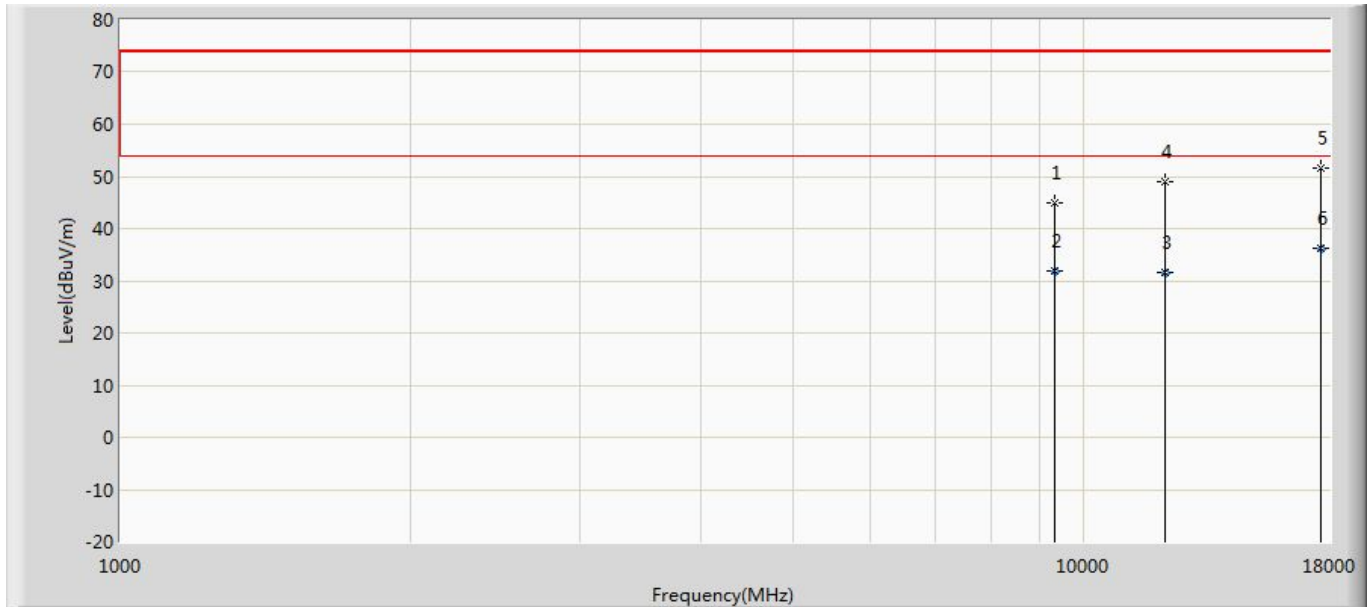
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	30.183	28.667	0.800	-11.333	40.000	27.867	QP
2		32.734	27.763	1.300	-12.237	40.000	26.462	QP
3		100.006	24.765	8.000	-18.735	43.500	16.765	QP
4		165.016	23.093	5.500	-20.407	43.500	17.593	QP
5		411.816	27.775	1.800	-18.225	46.000	25.975	QP
6		721.125	30.622	1.100	-15.378	46.000	29.522	QP

Engineer: Bill	
Site: AC3	Time: 2016/10/12 - 11:10
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Vertical
EUT: ZC179 module	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



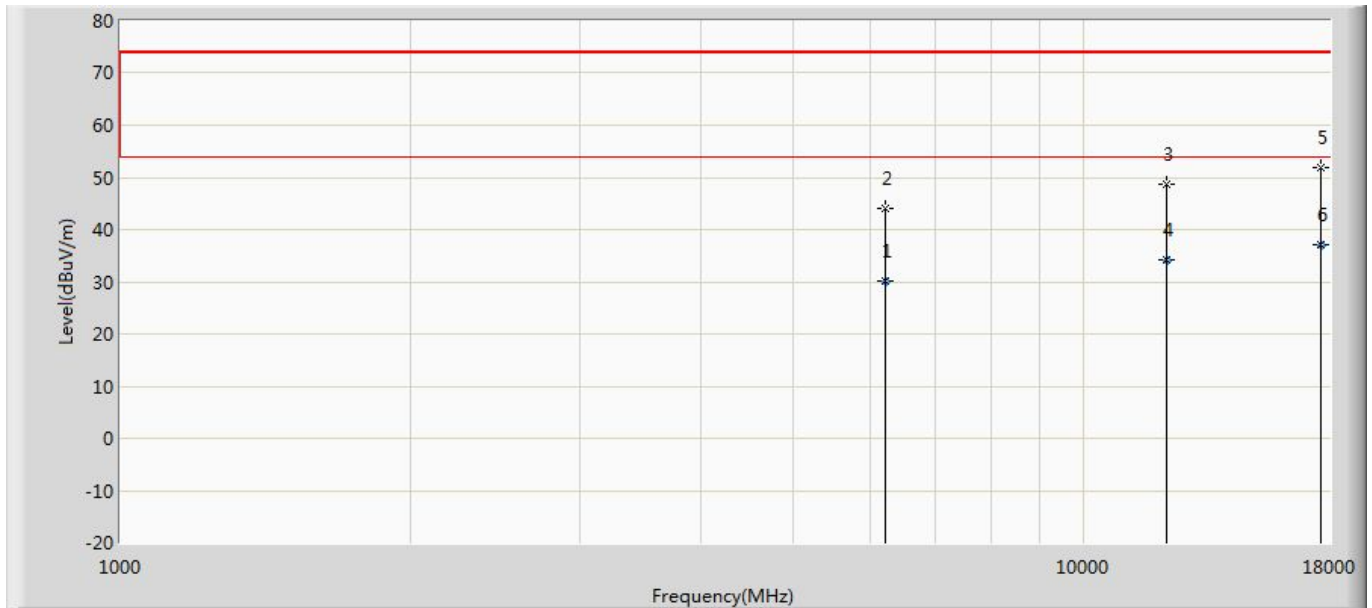
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		39.994	28.016	9.200	-11.984	40.000	18.816	QP
2	*	60.001	33.175	17.200	-6.825	40.000	15.975	QP
3		100.006	28.277	6.200	-15.223	43.500	22.077	QP
4		209.450	23.553	0.200	-19.947	43.500	23.353	QP
5		774.839	32.721	0.400	-13.279	46.000	32.321	QP
6		953.115	34.605	0.700	-11.395	46.000	33.905	QP

Engineer: David	
Site: AC5	Time: 2016/10/12 - 11:13
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: ZC179 module	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		9321.500	44.854	32.194	-29.146	74.000	12.660	PK
2		9321.530	31.981	19.320	-22.019	54.000	12.661	AV
3		12126.430	31.531	13.580	-22.469	54.000	17.952	AV
4		12126.500	48.915	30.963	-25.085	74.000	17.952	PK
5		17609.000	51.595	26.779	-22.405	74.000	24.816	PK
6	*	17609.000	36.296	11.480	-17.704	54.000	24.816	AV

Engineer: David	
Site: AC5	Time: 2016/10/12 - 11:13
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: ZC179 module	Power: AC 120V/60Hz
Note: Mode 1: Transmit	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		6218.560	30.254	20.110	-23.746	54.000	10.144	AV
2		6219.000	43.968	33.831	-30.032	74.000	10.137	PK
3		12186.000	48.553	31.088	-25.447	74.000	17.465	PK
4		12186.430	34.341	16.880	-19.659	54.000	17.461	AV
5		17609.000	51.764	26.948	-22.236	74.000	24.816	PK
6	*	17609.840	37.009	12.430	-16.991	54.000	24.578	AV

The End