

TEST REPORT

Application No.: SZEM1903012122AT
Applicant: MYIR Electronics Limited
Address of Applicant: Room 04, 6th Floor, Building No.2, Fada Road, Yunli Smart Park, Bantian, Longgang District, Shenzhen, Guangdong, China
Manufacturer: MYIR Electronics Limited
Address of Manufacturer: Room 04, 6th Floor, Building No.2, Fada Road, Yunli Smart Park, Bantian, Longgang District, Shenzhen, Guangdong, China
Factory: MYIR Electronics Limited
Address of Factory: Room 04, 6th Floor, Building No.2, Fada Road, Yunli Smart Park, Bantian, Longgang District, Shenzhen, Guangdong, China
Equipment Under Test (EUT):
EUT Name: MYC-Y6ULX
Model No.: Please refer to section 2 ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) : EN 55032:2015
 EN 55035:2017
Date of Receipt: 2019-03-27
Date of Test: 2019-03-29 to 2019-05-20
Date of Issue: 2019-06-10

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



The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

Keny Xu
 EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-06-10		Original

Authorized for issue by:			
			
		<hr/> Foray Chen /Project Engineer	
			
		<hr/> Eric Fu /Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (30MHz-1GHz)	EN 55032:2015	EN 55032:2015	Class B	Pass
Radiated Emissions (above 1GHz)	EN 55032:2015	EN 55032:2015	Class B	Pass

Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN 55035:2017	EN 61000-4-2:2009	4kV Contact Discharge 8kV Air Discharge	Pass
Radiated Immunity (80MHz-1GHz, 1800MHz,2600MHz, 3500MHz,5000MHz)	EN 55035:2017	EN 61000-4-3:2006 +A1:2008+A2:2010	3V/m, 80%, 1kHz Amp. Mod.	Pass

Internal Source	Upper Frequency
Below 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5 times the highest frequency or 6 GHz, whichever is less



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Remrak:

Model No.:

MYC-Y6UJLY2-128N128D-50-C, MYC-Y6UJLY2-128N256D-50-C, MYC-Y6UJLY2-128N512D-50-C, MYC-Y6UJLY2-128N1D-50-C, MYC-Y6UJLY2-256N128D-50-C, MYC-Y6UJLY2-256N256D-50-C, MYC-Y6UJLY2-256N512D-50-C, MYC-Y6UJLY2-256N1D-50-C, MYC-Y6UJLY2-512N128D-50-C, MYC-Y6UJLY2-512N256D-50-C, MYC-Y6UJLY2-512N512D-50-C, MYC-Y6UJLY2-512N1D-50-C, MYC-Y6UJLY2-1N128D-50-C, MYC-Y6UJLY2-1N256D-50-C, MYC-Y6UJLY2-1N512D-50-C, MYC-Y6UJLY2-1N1D-50-C, MYC-Y6UJLY2-128N128D-50-I, MYC-Y6UJLY2-128N256D-50-I, MYC-Y6UJLY2-128N512D-50-I, MYC-Y6UJLY2-128N1D-50-I, MYC-Y6UJLY2-256N128D-50-I, MYC-Y6UJLY2-256N256D-50-I, MYC-Y6UJLY2-256N512D-50-I, MYC-Y6UJLY2-256N1D-50-I, MYC-Y6UJLY2-512N128D-50-I, MYC-Y6UJLY2-512N256D-50-I, MYC-Y6UJLY2-512N512D-50-I, MYC-Y6UJLY2-512N1D-50-I, MYC-Y6UJLY2-1N128D-50-I, MYC-Y6UJLY2-1N256D-50-I, MYC-Y6UJLY2-1N512D-50-I, MYC-Y6UJLY2-1N1D-50-I, MYC-Y6UJLY2-4E128D-50-C, MYC-Y6UJLY2-4E256D-50-C, MYC-Y6UJLY2-4E512D-50-C, MYC-Y6UJLY2-4E1D-50-C, MYC-Y6UJLY2-8E128D-50-C, MYC-Y6UJLY2-8E256D-50-C, MYC-Y6UJLY2-8E512D-50-C, MYC-Y6UJLY2-8E1D-50-C, MYC-Y6UJLY2-16E128D-50-C, MYC-Y6UJLY2-16E256D-50-C, MYC-Y6UJLY2-16E512D-50-C, MYC-Y6UJLY2-16E1D-50-C, MYC-Y6UJLY2-32E128D-50-C, MYC-Y6UJLY2-32E256D-50-C, MYC-Y6UJLY2-32E512D-50-C, MYC-Y6UJLY2-32E1D-50-C, MYC-Y6UJLY2-4E128D-50-I, MYC-Y6UJLY2-4E256D-50-I, MYC-Y6UJLY2-4E512D-50-I, MYC-Y6UJLY2-4E1D-50-I, MYC-Y6UJLY2-8E128D-50-I, MYC-Y6UJLY2-8E256D-50-I, MYC-Y6UJLY2-8E512D-50-I, MYC-Y6UJLY2-8E1D-50-I, MYC-Y6UJLY2-16E128D-50-I, MYC-Y6UJLY2-16E256D-50-I, MYC-Y6UJLY2-16E512D-50-I, MYC-Y6UJLY2-16E1D-50-I, MYC-Y6UJLY2-32E128D-50-I, MYC-Y6UJLY2-32E256D-50-I, MYC-Y6UJLY2-32E512D-50-I, MYC-Y6UJLY2-32E1D-50-I

Only the model MYD-Y6UJLY2-32E1D-50-I was tested fully, and the model MYD-Y6UJLY2-128N128D-50-I was performed the Radiated Emissions, Electrostatic Discharge for discrepancy, since the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference being DDR memory, size, Nand Flash Size, eMMC Flash Size and model No.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Input: DC3.3V 300mA
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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Supply by SGS	SW120-100	N/A
Laptop	ASUS	A556U	FBN0CV921312487
Laptop	Lenovo	T430u	REF. No.SEA1800
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Network cable	Supply by client	SAMZHE	100cm shielded
Router	NETGEAR	DGN2200	REF. No.SEA2200
TF Card	Kingston	SDC8GB	REF. No.SEA0400
U-disk	Sandisk	SDCZ60-016G	REF. No.SEA0100
USB cable	Supply by client	N/A	100cm unshielded

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radiated Emission	± 4.5dB (30MHz-1GHz)
		± 4.8dB (1GHz-6GHz)
2	Radiated Immunity	± 1.64dB
3	ESD	± 6 %
4	Temperature test	± 1 °C
5	Humidity test	± 3%



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

4.8 Monitoring of EUT for All Immunity Test

Visual: Monitored the communication and work status of the EUT

Audio: None



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5 Equipment List

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2018-07-12	2019-07-11
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2018-09-25	2019-09-24
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2018-04-13	2019-04-12
				2019-04-12	2020-04-11
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11

Electrostatic Discharge					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
ESD Ground Plane	SGS(3m*3m)	N/A	SEN006-01	N/A	N/A
ESD Generator	TESEQ AG	NSG 437	SEM019-02	2018-04-20	2019-04-19
				2019-04-19	2020-04-18



Radiated Immunity (80MHz-1GHz,1800MHz,2600MHz,3500MHz,5000MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Fully-Anechoic Chamber 2	Chang Zhou Zhong Shuo	854	SEM001-05	2017-05-10	2020-05-09
Measurement Software	Rohde & Schwarz	EMC32 V9.25.00	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SMB100A	SEM006-11	2019-04-01	2020-03-31
Broadband Amplifier (80MHz-1GHz)	Rohde & Schwarz	BBA150- BC250	SEM005-12	2018-09-25	2019-09-24
Broadband Amplifier (800MHz-3GHz)	Rohde & Schwarz	BBA150-D110	SEM005-13	2019-04-01	2020-03-31
Broadband Amplifier (2.5GHz-6GHz)	Rohde & Schwarz	BBA150-E60	SEM005-16	2019-04-12	2020-04-11
Power Sensor	Rohde & Schwarz	NRP-Z91	SEM009-09	2019-04-01	2020-03-31
Power Sensor	Rohde & Schwarz	NRP-Z92	SEM009-17	2018-09-25	2019-09-24
Stacked Log.-Per.- Broadband Antenna (70MHz-10GHz)	Schwarzbeck	STLP 9129	SEM003-25	N/A	N/A
Conditioning Amplifier	Brüel & Kjaer	2690-OS2	SEM005-10	2018-04-20	2019-04-19
				2019-04-19	2020-04-18
Audio Analyzer	Rohde & Schwarz	UPV	SEM008-03	2018-09-25	2019-09-24

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2018-09-27	2019-09-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-05	2019-04-04
				2019-04-04	2020-04-03



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6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement:	EN 55032:2015
Test Method:	EN 55032:2015
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Limit:	
30MHz-230MHz	40 dB(μV/m) quasi-peak
230MHz-1GHz	47 dB(μV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

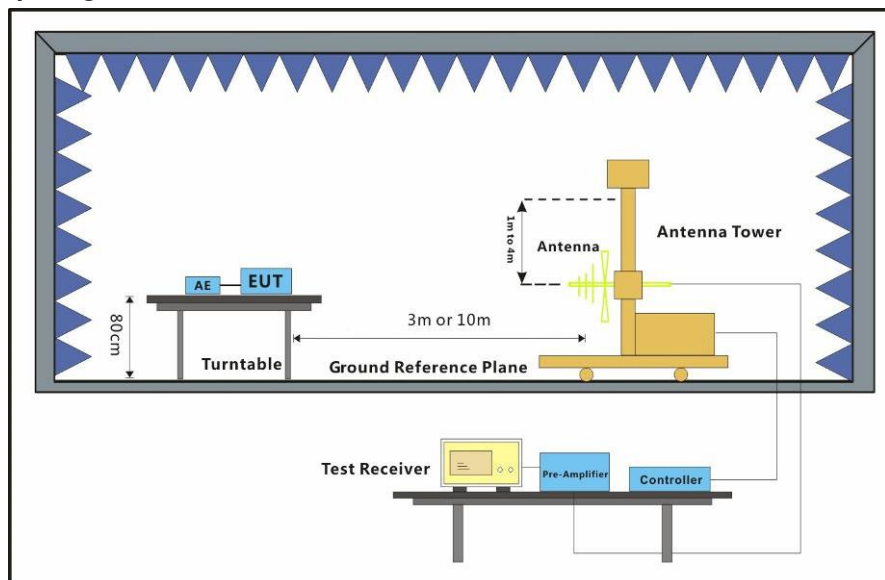
Pretest these modes to find the worst case:

- a: On mode, keep EUT(MYD-Y6JULY2-32E1D-50-I) working normally.
- b: On mode, keep EUT(MYD-Y6JULY2-128N128D-50-I) working normally.
- c: Idle mode.

The worst case for final test:

- a: On mode, keep EUT(MYD-Y6JULY2-32E1D-50-I) working normally.
- b: On mode, keep EUT(MYD-Y6JULY2-128N128D-50-I) working normally.

6.1.2 Test Setup Diagram

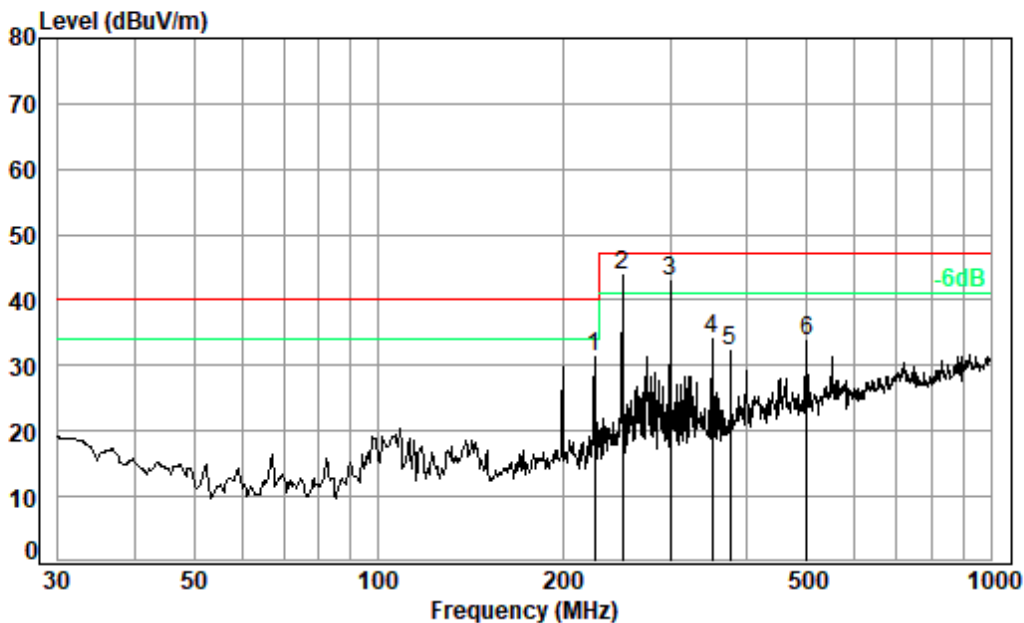


6.1.3 Measurement Data

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.



Mode:a; Polarization:Horizontal



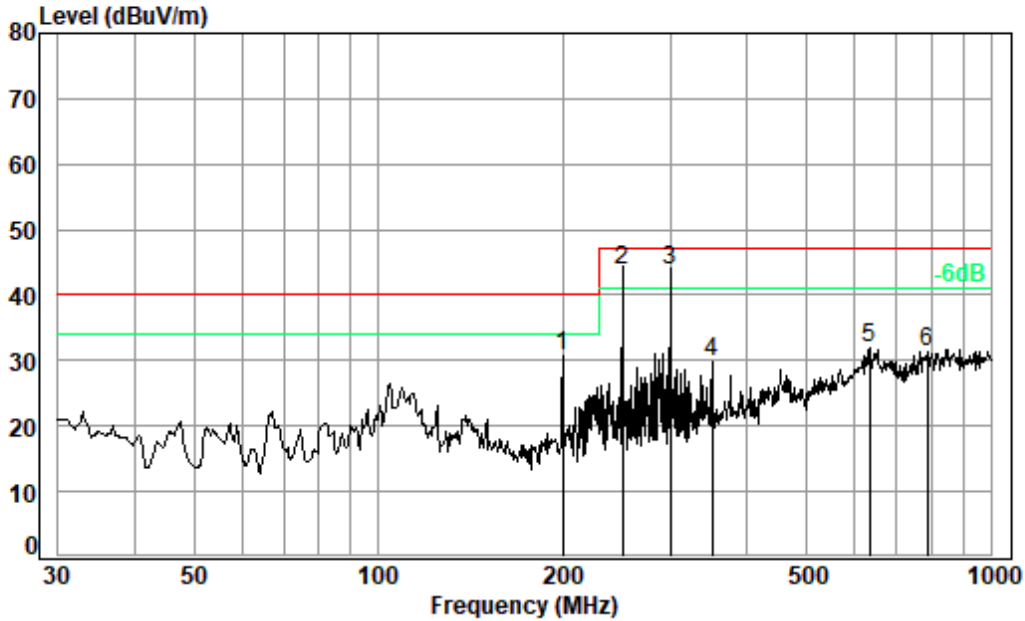
Condition: 3m HORIZONTAL
 Job No. : 12122AT
 Test mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	225.31	1.55	17.64	26.83	38.88	31.24	40.00	-8.76
2 pp	250.30	1.68	18.96	26.76	49.81	43.69	47.00	-3.31
3	299.32	1.90	19.57	26.64	48.09	42.92	47.00	-4.08
4	350.48	2.06	21.11	26.93	37.76	34.00	47.00	-13.00
5	375.94	2.13	21.80	27.07	35.45	32.31	47.00	-14.69
6	501.18	2.60	24.63	27.61	34.09	33.71	47.00	-13.29



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Mode:a; Polarization:Vertical



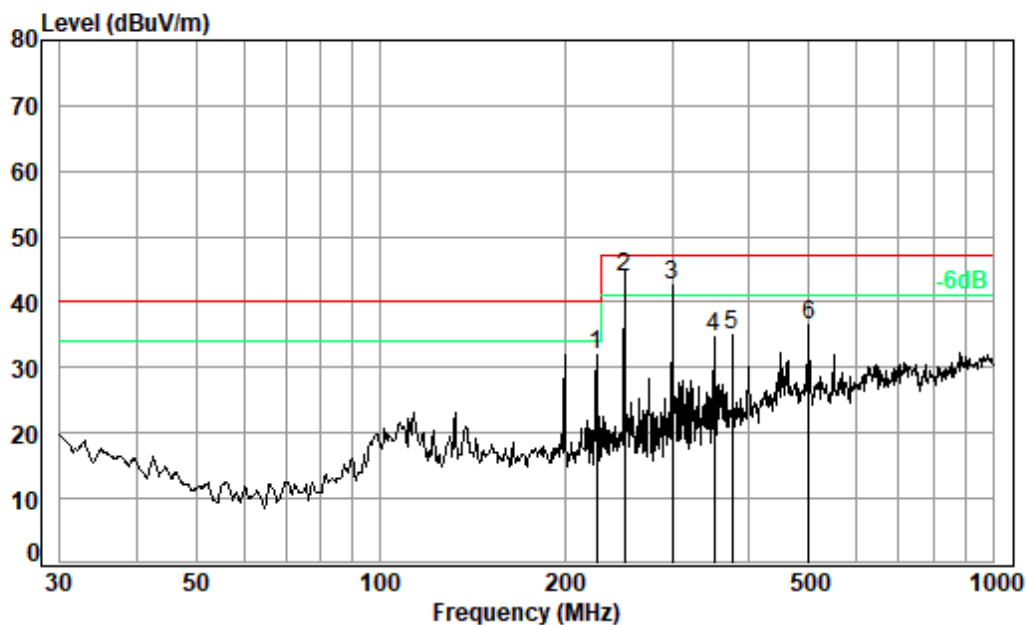
Condition: 3m VERTICAL
 Job No. : 12122AT
 Test mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	199.99	1.40	16.50	26.90	39.87	30.87	40.00	-9.13
2	250.30	1.68	18.96	26.76	49.93	43.81	47.00	-3.19
3	299.32	1.90	19.57	26.64	48.88	43.71	47.00	-3.29
4	350.48	2.06	21.11	26.93	33.50	29.74	47.00	-17.26
5	633.91	2.77	27.06	27.89	30.09	32.03	47.00	-14.97
6	787.85	3.17	28.43	27.66	27.38	31.32	47.00	-15.68



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Mode:b; Polarization:Horizontal



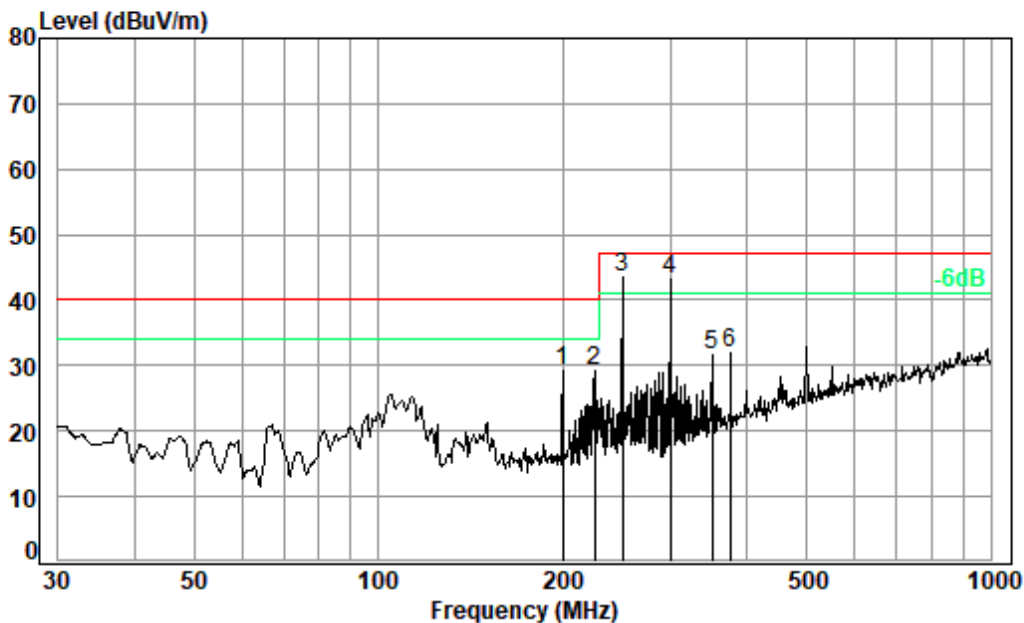
Condition: 3m HORIZONTAL
 Job No. : 12122AT
 Test mode: b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	225.31	1.55	17.64	26.83	39.72	32.08	40.00	-7.92
2 pp	250.30	1.68	18.96	26.76	49.85	43.73	47.00	-3.27
3	299.32	1.90	19.57	26.64	47.85	42.68	47.00	-4.32
4	350.48	2.06	21.11	26.93	38.41	34.65	47.00	-12.35
5	375.94	2.13	21.80	27.07	38.22	35.08	47.00	-11.92
6	501.18	2.60	24.63	27.61	36.85	36.47	47.00	-10.53



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Mode:b; Polarization:Vertical



Condition: 3m VERTICAL
 Job No. : 12122AT
 Test mode: b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	199.99	1.40	16.50	26.90	38.25	29.25	40.00	-10.75
2	225.31	1.55	17.64	26.83	36.93	29.29	40.00	-10.71
3 pp	250.30	1.68	18.96	26.76	49.74	43.62	47.00	-3.38
4	299.32	1.90	19.57	26.64	48.39	43.22	47.00	-3.78
5	350.48	2.06	21.11	26.93	35.49	31.73	47.00	-15.27
6	375.94	2.13	21.80	27.07	35.10	31.96	47.00	-15.04



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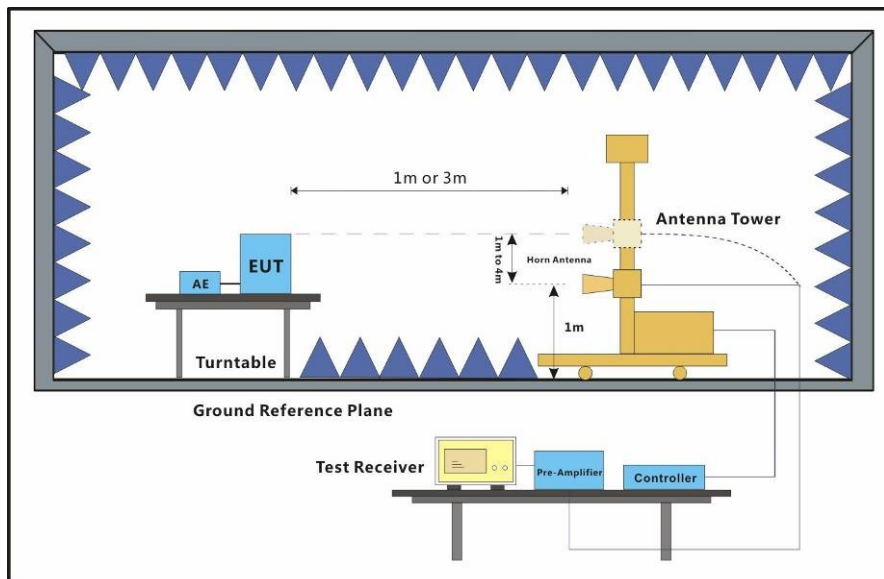
6.2 Radiated Emissions (above 1GHz)

Test Requirement: EN 55032:2015
 Test Method: EN 55032:2015
 Frequency Range: Above 1GHz
 Measurement Distance: 3m
 Limit:
 1GHz-3GHz 70 dB(μV/m) peak, 50 dB(μV/m) average
 3GHz-6GHz 74 dB(μV/m) peak, 54dB(μV/m) average
 Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 6000MHz

6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.9 °C Humidity: 63.5 % RH Atmospheric Pressure: 1020 mbar
 Pretest these modes to find the worst case:
 a: On mode, keep EUT(MYD-Y6JULY2-32E1D-50-I) working normally.
 c: Idle mode.
 The worst case for final test:
 a: On mode, keep EUT(MYD-Y6JULY2-32E1D-50-I) working normally.

6.2.2 Test Setup Diagram

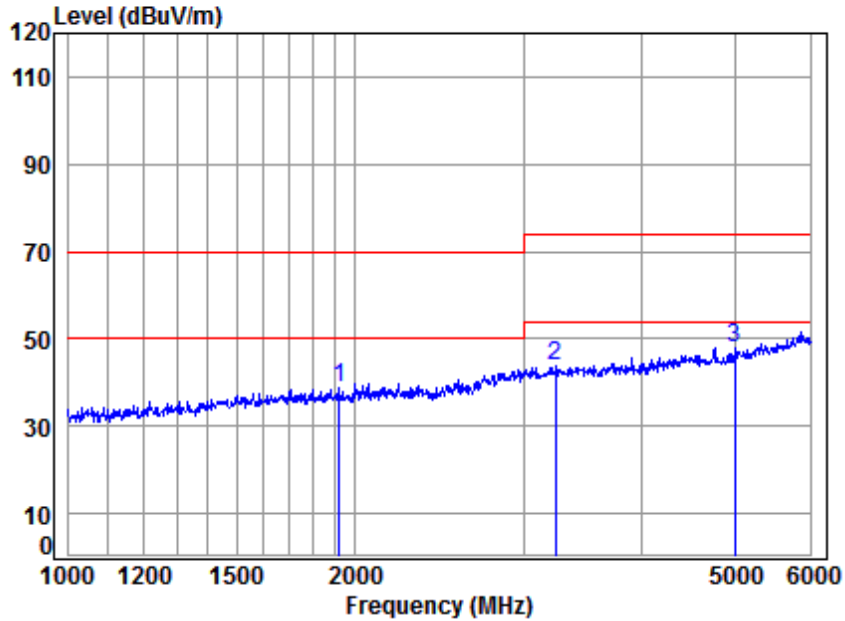


6.2.3 Measurement Data

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.



Mode:a; Polarization:Horizontal



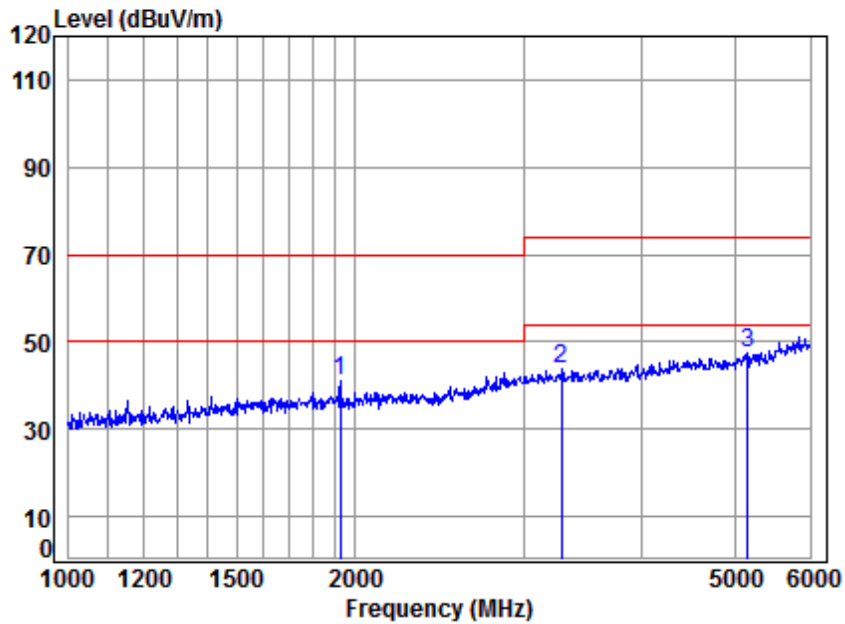
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 12122AT
 Mode : a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1923.203	4.98	27.53	40.95	47.42	38.98	70.00	-31.02	Peak
2	3245.229	6.22	31.31	41.77	48.07	43.83	74.00	-30.17	Peak
3	4997.811	8.09	34.20	43.80	49.28	47.77	74.00	-26.23	Peak



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Mode:a; Polarization:Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 12122AT
 Mode : a

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4.98	27.54	40.96	49.43	40.99	70.00	-29.01	Peak
2	6.26	31.37	41.83	48.04	43.84	74.00	-30.16	Peak
3	8.34	34.33	43.63	48.24	47.28	74.00	-26.72	Peak



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7 Immunity Test Results

7.1 General Performance Criteria Description in EN 55035:2017

- Criterion A** The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
- Criterion B** During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test.
After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level (or the permissible performance loss), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
- Criterion C** Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed.
Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.



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7.2 Performance Criteria Description for Broadcast reception function

The broadcast reception function shall comply with the general performance criteria given in Clause 8 and any relevant annex with the deviations defined in Table A.2.

NOTE For the continuous RF electromagnetic field immunity test specified in the table clauses 1.2 and 1.3, deviations apply for in-band frequencies. The deviations depend on the class of the broadcast receiver (Group 1 or 2) and are defined in Table A.2.

Table A.2 – Modified test levels for performance criterion A for the broadcast reception function

Performance criteria	Test type table clause	Group 1	Group 2
A	1.2 1.3	The disturbance level is reduced to 1 V/m for in-band frequencies.	No test requirements apply
	2.1 3.1 4.1	The disturbance level is reduced to 1 V for in-band frequencies.	
<p>In-band is defined as the entire tuneable operating range of the selected broadcast reception function. The tuned channel $\pm 0,5$ MHz (lower edge frequency – 0,5 MHz up to the upper edge frequency + 0,5 MHz of the tuned channel) is excluded from testing.</p> <p>NOTE In some countries, there is a requirement to test the tuned channels. Refer to the relevant regional requirements for guidance.</p>			



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7.3 Performance Criteria Description for Print function

- Criterion A Apply criterion A as defined in 8.2. Additionally, the following shall not occur as a consequence of the application of the disturbance:
- change of operating state;
 - unintended pausing of the print operation;
 - a change of print quality or legibility, as appropriate to the test pattern;
 - change of character font;
 - unintended line feed;
 - unintended page feed;
 - paper feed failure.
- Criterion B Apply criterion B as defined in 8.3 with the following specifics and additional limitations. Paper feed failures are allowed only if, after removal of the jammed sheets, the job is automatically recovered and there is no loss of printed information. Any low-quality print output caused by the application of the disturbance shall not continue beyond the sheet of media being printed, or beyond the typical length of a finished page or sheet printed from continuous roll media. False indicators are permitted during the test provided that a normal operator response to that false indicator is simple (such as pressing a button). False indicators are not acceptable if they would cause the user to discard printing supplies such as ink, toner or paper, when those supplies are actually not empty or faulty. Any false indicator shall either clear automatically or after the operator's response. After the disturbance, the print function may print the remainder of the print job at a quality level within the manufacturer's specifications. Alternately, the print function may halt processing of a print job as a result of the disturbance, but only if the operator is capable of reprinting the job (for example, a fax printing job where the image to be printed still resides in local memory). Automatically restarting the print job from the beginning is also acceptable. In any scenario, the pairing of front and back images during double-sided printing shall be correct.
- Criterion C Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.



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7.4 Performance Criteria Description for Scan function

- Criterion A Apply criterion A as defined in 8.2. Additionally, the following shall not occur as a consequence of the application of the test:
- change of settings, such as which side(s) of the page to be scanned, colour or monochrome, and resolution;
 - corruption of the image, for example stretching, compressing or change in colour;
 - paper feed failures;
 - errors in the reading of bar codes.
- Criterion B Apply criterion B as defined in 8.3 with the following specifics and additional limitations:
- Document feed failures are allowed only if the original documents are undamaged and, after removal of the jammed sheets, the job is automatically recovered and there is no loss of scanned information.
 - During the test, the representation of the image shall not be degraded such that reading mistakes occur.
- Criterion C Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed.
- Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.



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7.5 Performance Criteria Description for Display and display output functions

Performance criterion A for continuous radiated and conducted disturbances tests

Apply criterion A as defined in 8.2. Additionally, an increase in any degradation greater than just perceptible by observation of the image shall not occur as a consequence of the application of the test. Examples of such degradations are:

- superimposed patterning;
- positional disturbances due to synchronisation errors;
- geometric distortion;
- change of contrast or brightness;
- picture artefacts;
- freezing or disturbance of motion;
- image loss;
- video data or decoding errors.

Performance criterion A for the power frequency magnetic field tests

Alternative 1: A continuous magnetic field of 1 A/m:

The jitter (in mm) shall not exceed the value
$$\frac{(\text{character height in mm} + 0,3) \times 2,5}{33,3}$$

Alternative 2: An increased power frequency magnetic field ≤ 50 A/m:

The amplitude of the disturbing field shall be increased by a factor K , where $1 \leq K \leq 50$. The jitter shall not exceed K times the value given in alternative 1. The value of K should be chosen to avoid saturation of any magnetic screening materials.

When the EUT is subjected to fields above $K = 1$ and the performance criteria are satisfied for all relevant functions of the EUT, the EUT shall be deemed to satisfy the requirement. When the EUT is subjected to fields above $K = 1$ and the display function is shown to meet these performance criteria, but the performance criteria for other relevant functions are NOT satisfied, the EUT shall be retested at $K = 1$ (the field level required in table clause 1.1) to assess compliance for those other functions.

Performance criterion B

During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test.

After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment is used as intended.

The performance level may be replaced by a permissible loss of performance.

If the minimum performance level (or the permissible performance loss), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed.

Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.



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7.6 Performance Criteria Description for Musical tone generating function

General

The particular performance criteria for evaluating the musical tone generating function are defined in E.3.2, E.3.3 and E.3.4.

Performance criterion A

Performance criterion A is subdivided according to the type of equipment and its use. Three subgroups corresponding to different equipment types are defined in Table E.1 and have corresponding performance criteria A1, A2 and A3. The relevant subgroup shall be selected by the manufacturer in accordance with the product specification. The description of criteria A1, A2 and A3 are presented in Table E.2.

Table E.1 – Subgroups and performance criteria A for the musical tone generating function

Equipment type and use	Subgroup	Performance Criteria
High-end quality suitable for professional use or studio recording	1	A1
Middle grade quality suitable for amateur use or home use	2	A2
Entry grade quality for practice or exercise use	3	A3

Table E.2 – Performance criteria for different subgroups given in Table E.1

Description of degradation in performance	Performance Criteria		
	A1	A2	A3
Specific unintended change in the characteristic of the tone generated 1. interruption 2. stopping (or ceasing) 3. holding 4. sudden change in amplification	Not acceptable	Not acceptable	Not acceptable
Specific unintended change in the characteristic of the tone generated 1. frequency 2. harmonic distortion	Not acceptable	Not acceptable if the degradation is beyond the level specified by the manufacturer	Not acceptable if the manufacturer judges such degradations interfere with the continuation of playing music
Other changes in the type of tone generated	Not acceptable	Not acceptable	Not acceptable if the manufacturer judges such degradations interfere with the continuation of playing music

The specified degradations shall be perceptible to a listener.

During the test no performance degradation other than that permitted by this table is allowed. After the test the EUT shall operate without performance degradation.



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Performance criterion B

During the test, degradation of performance beyond that defined in criterion A1 of Table E.2 is allowed. However, sudden amplification of tone to a level that exceeds the expected level by more than 6 dB is not allowed.

After the test, normal operation of the EUT shall be self-recovered.

In the case of unintended tone holding caused by a MIDI protocol communication error, the EUT can be re-initialised by the operation of the controls by the user controls in accordance with the manufacturer's instructions.

Due to the nature of the MIDI protocol, it is necessary to modify the performance criterion B to allow user intervention when the unintended tone holding is caused by a missing MIDI communication error (for example missing a 'NOTE OFF' message).

Performance criterion C

Degradation of the performance beyond that defined in criterion A1 of Table E.2 is permitted provided that the normal operation of the EUT can be restored after the test by operator intervention. However, sudden amplification of tone to a level that exceeds the expected level by more than 6 dB is not allowed.



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7.7 Performance Criteria Description for Networking functions

General Requirements for Network functions

Performance criterion A

Where relevant, during the application of the test the network function shall, as a minimum, operate ensuring that:

- established connections shall be maintained throughout the application of the test;
- no change of operational state or corruption of stored data occurs;
- no increase in error rate above the figure defined by the manufacturer occurs. The manufacturer should select the most appropriate performance measurement criteria for the product or system, for example bit error rate, block error rate;
- no request for retry above the figure defined by the manufacturer;
- the data transmission rate does not reduce below the figure defined by the manufacturer;
- no protocol failure occurs;
- the audio noise level at a two-wire analogue interface (supporting telephony) shall satisfy the requirements of Table G.3. The audio level measurements shall be performed at the demodulated frequency of the disturbance using a narrowband filter with a 3dB bandwidth of 100 Hz using the method defined in table clause G.1.4. See G.6.1.

As described in the example given in J.3.5 the networking function is monitored during testing using direct functions specified elsewhere in this document.

If needed to verify the operation of the protocol, the following functions shall be verified as described in Table H.1 when performing the additional spot frequency tests contained in Clause 5:

- ability to establish a connection,
- ability to clear a connection.

Where an EUT has supervisory functions they shall not be affected. Elements that should be monitored include, but are not limited to:

- alarms,
- signalling lamps,
- printer output errors,
- network traffic rates,
- network monitor errors,
- measured network parameters.

Performance criterion B

Established connections shall be maintained throughout the test, or shall self-recover in a way and timescale that is imperceptible to the user.

The error rate, request for retry and data transmission rates may be degraded during the application of the test. Degradation of the performance as described in criterion A is permitted, provided that the normal operation of the EUT is self-recoverable to the condition established prior to the application of the test.

Where required, as defined in Clause 5, the acceptable operation of the function shall be verified at the completion of the test as described in Table H.1, by confirming the following:

- the EUT's ability to establish a connection,
- the EUT's ability to clear a connection.

During surge testing disconnection is allowed on the analogue/digital data port being tested.

If the EUT is a supervisory equipment, it shall not impact the normal operation of the network being monitored. In addition, any supervisory functions impacted during the period of the test shall return to the state prior to the test. Elements to consider include:

- alarms,
- signalling lamps,
- printer output,
- network traffic rates,
- network monitoring.



Performance criterion C

Degradation of performance as described in criteria A and B is permitted provided that the normal operation of the EUT is self-recoverable to the condition immediately before the application of the test, or can be restored after the test by the operator.

Requirements for CPE containing xDSL ports

Performance criterion A

Applicable for the test requirement defined in table clause 2.1

During the swept frequency test, the established connection shall be maintained throughout the testing and the information transferred without any additional reproducible errors or loss of synchronisation. If degradation in performance is observed and the system is adaptive, for example has the capability to automatically retrain in the presence of an interfering signal, then perform the following procedure:

- a) For each range of interfering frequencies in which degradation in performance is observed, three frequencies (beginning, middle and end) shall be identified.
- b) At each of the frequencies identified in step a), the interfering signal shall be applied and the system shall be allowed to retrain.
- c) If the system is able to retrain and then functions correctly for a dwell time of at least 60 s without any additional reproducible errors or loss of synchronisation, then the performance level of the system is considered acceptable.
- d) The frequencies identified in step a) and the data rates achieved in step b) shall be recorded in the test report.

Applicable for the test requirement defined in table clause 2.2

It is important that the modems are able to train in the presence of repetitive impulsive noise and minimize disruption to the end-user where a repetitive impulsive noise source starts after the link has synchronized. Therefore the following procedure and performance criteria shall apply.

The manufacturer shall select the class of impulsive noise protection (INP) to be used for the immunity test and should state this information in the technical documentation and in the test report. The maximum delay shall be set to 8 ms.

In the absence of impulsive noise: The modem shall operate without retraining at its target noise margin with a bit rate value depending on the line attenuation and the stationary noise being present on the line. (The actual value will be between the minimum and maximum bit rate values programmed in the port).

The impulsive noise source shall then be applied at the required test level.

With the impulsive noise applied: The modem shall operate without retraining and without SES at the bit rate established prior to the application of the impulsive noise. No extra CRC errors shall occur due to the impulsive noise.

Applicable for the test requirements defined in other subclauses

The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.



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Performance criterion B

F.4.3.1 Applicable for the test requirement defined in table clause 2.3

Modems shall withstand the application of the isolated impulsive noise events. The performance criteria defined in Table F.3 shall be applied.

Table F.3 – Performance criteria against impulse duration

Impulse duration ms	Performance criteria
0,24	The application of the impulse shall not cause the xDSL link to lose synchronisation. No CRC errors are permitted.
10	The application of the 5 impulses shall result in less than 75 CRC errors and shall not cause the link to lose synchronisation.
300	The application of the impulse shall not cause the xDSL link to lose synchronisation.

Applicable for the test requirements defined in table clauses 2.5 and 4.5

For application of this test to the xDSL port, a repetition rate of 100 kHz (burst length 0,75 ms) shall be used. For the application of this test to the AC mains power port, a repetition rate of 5 kHz shall be used. Degradation of the performance as described in criterion A (defined in F.4.2.1) is permitted in that errors are acceptable during the application of the test. However the application of the test shall not cause the system to lose the established connection or re-train. At the cessation of the test, the system shall operate in the condition established prior to the application of the test without user intervention. After the application of the EFT/B tests to the xDSL or AC mains power port, as defined in table clauses 2.5 and 4.5, the CRC error count shall not have increased by more than 600 when compared to the count prior to the application of the test.

Applicable for the test requirements defined in other subclauses

During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test. After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level (or the permissible performance loss), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion C

Degradation of the performance beyond that defined in criteria A and B is permitted provided that the normal operation of the EUT is self-recoverable to the condition established prior to application of the test or can be restored after the test by the operator.



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7.8 Performance Criteria Description for Audio output function

Performance criterion A

General

During the test the audio output function shall be maintained and the requirements of G.7.1.2 or G.7.1.3 shall be met.

Devices supporting telephony functions

For devices that support telephony functions the limits of Table G.3 shall apply. With respect to Table G.3,

- the interference ratio (electrical or acoustic) shall meet the limits in column 3; or,
- the acoustic level of the demodulated audio shall be less than the limits in column 4; or,
- the digitally coded level of demodulated audio shall be less than limits in column 5; or,
- the analogue level of the demodulated audio shall be less than the limits in column 6.

Table G.3 – Performance criterion A – Limits for devices supporting telephony

Type of immunity test	Frequency range MHz	Acoustic or electrical interference ratio	Equivalent direct measurement		
			dB(SPL)	Digital dBm0	Analogue dBm
Conducted ^a	0,15 to 30	-20 dB	55	-50	-50
	30 to 80	-10 dB	65	-40	-40
Radiated	80 to 1 000	0 dB	75	-30	-30

^a At the step in the frequency range, the lower limit shall be applied.

The equivalent direct measurement values are presented to show the equivalency of the interference ratio in comparison to a direct measured value. These values may be used if the direct measurement method of the test is used.

The values within this table are aligned with CISPR 24, noting that the test levels are different between this document and CISPR 24.

For terminals connected to digital wired network ports (such as Ethernet, ISDN), measurements of the demodulated 1 kHz may be performed on a remote AE, ideally of the same design.

NOTE The amplitude demodulation disturbances will arise, almost invariably, from semi-conductor junctions behaving as inadvertent square law detectors. This means that for a 10 dB increase in the applied test level, for example, from 1 V to 3 V, the demodulated line noise will increase by 20 dB. This 20dB offset was used to derive the values in Table G.3.

For all other devices

The measured acoustic interference ratio and/or the measured electrical interference ratio during the test shall be -20 dB or better.



Performance criterion B

During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test.

After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment is used as intended.

The performance level may be replaced by a permissible loss of performance.

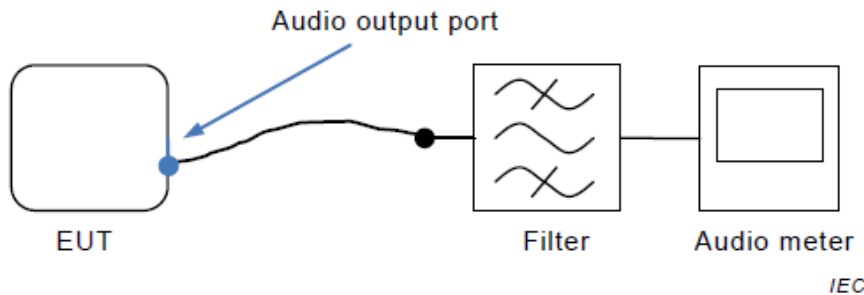
If the minimum performance level (or the permissible performance loss), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer’s instructions. A reboot or re-start operation is allowed.

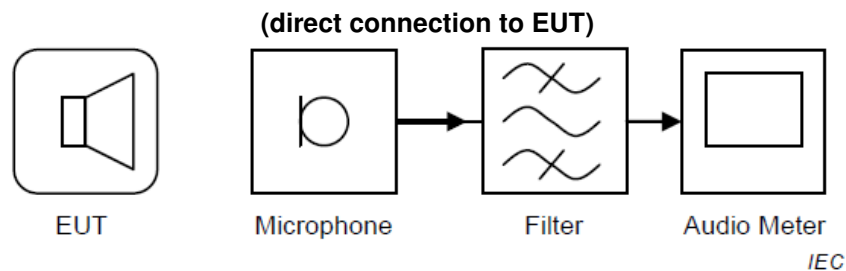
Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

Test setup examples



The filter is the audio filter specified in G.6.1 and is typically incorporated into the audio meter. Additional filtering might be necessary to ensure that the RF disturbance signal does not interfere with the measurement.

Figure G.1 – Example basic test setup for electrical measurements

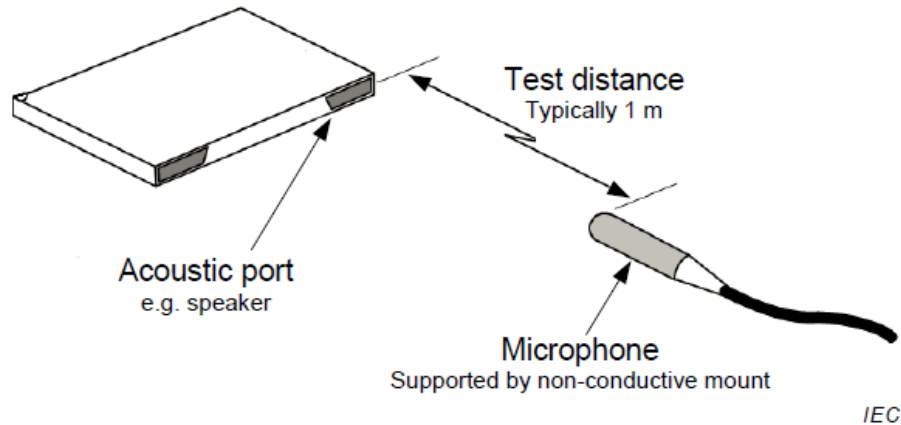


The filter is the audio filter specified in G.6.1 and is typically incorporated into the audio meter. Additional filtering might be necessary to ensure that the RF disturbance signal does not interfere with the measurement.

Figure G.2 – Example basic test setup for acoustic measurements

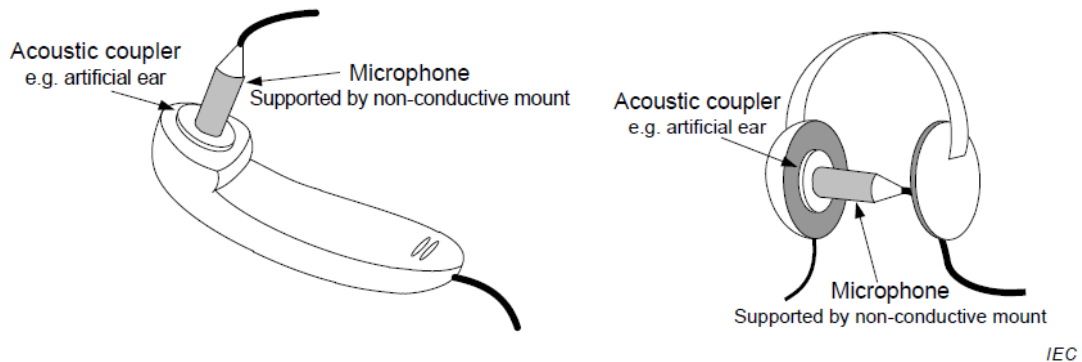


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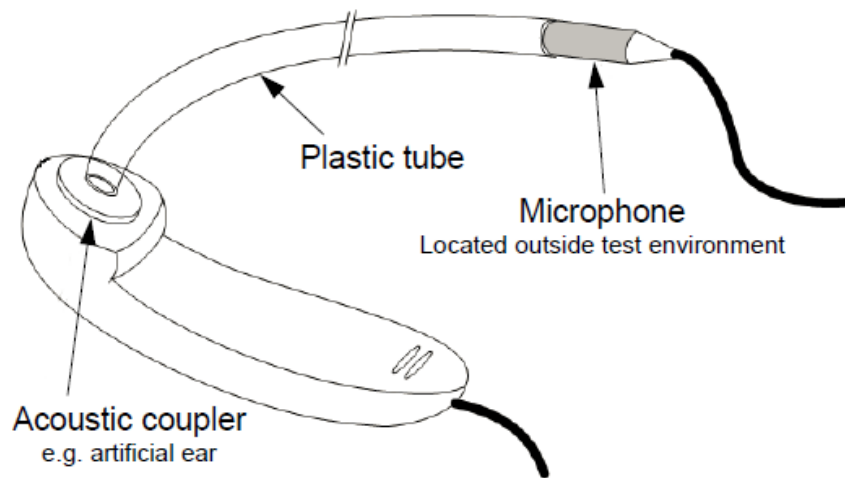
The microphone is connected via the cable to a suitable amplifier. Ensure that there is minimal acoustic loss between EUT and microphone.

Figure G.3 – Example test setup for acoustic measurements on loudspeakers



NOTE 1 The microphone is connected via the cable to a suitable amplifier.
NOTE 2 This setup cannot be suitable for radiated testing. See G.6.3.

Figure G.4 – Example test setup for on-ear acoustic measurements

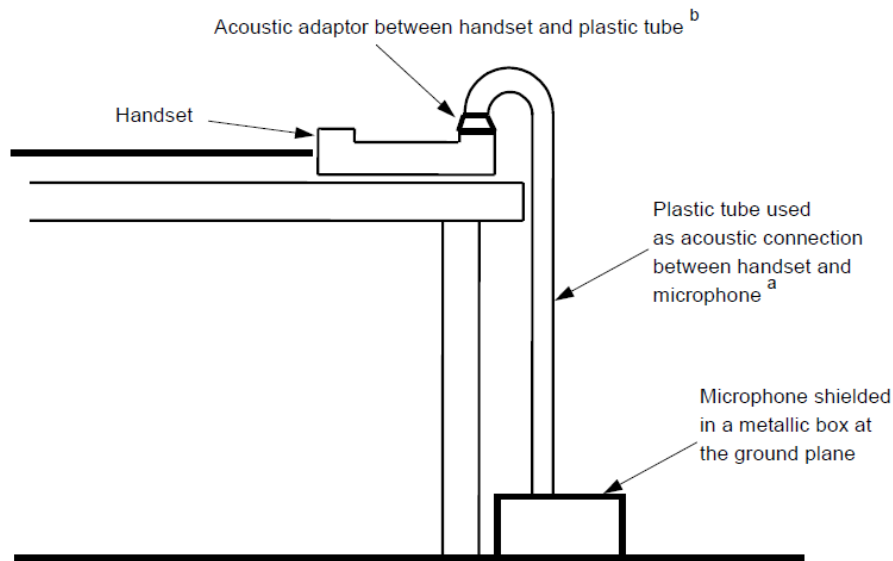


IEC

NOTE 1 The microphone is connected via the cable to a suitable amplifier.

NOTE 2 This setup is suitable for radiated immunity testing. See G.6.3

Figure G.5 – Example test setup for on-ear acoustic measurements, microphone located away from earpiece transducer



IEC

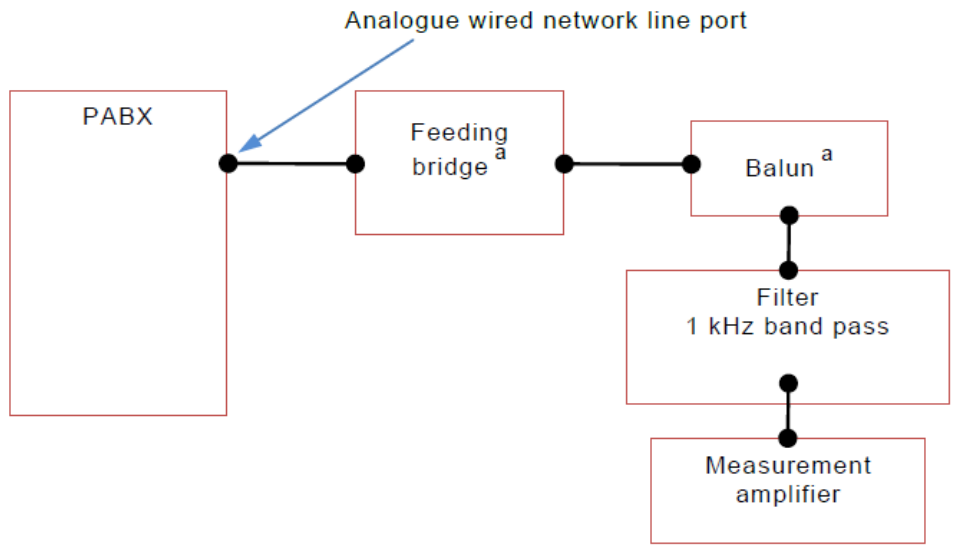
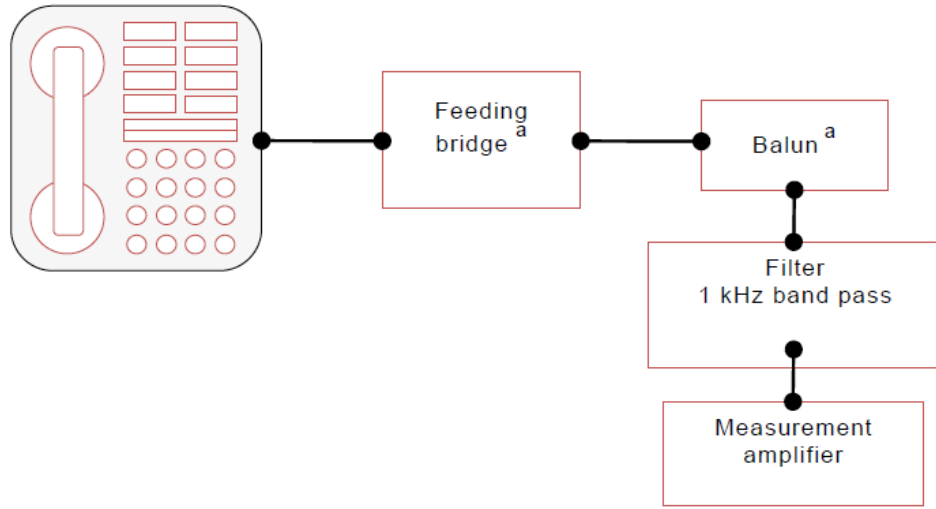
NOTE This set up is suitable for radiated immunity testing. See G.6.3.

^a The acoustic measurement procedure compensates for the acoustic properties of the tube. Typically, the tube has an inner diameter of 15 mm, an outer diameter of 19 mm, and a total length of 1,5 m.

^b Conically formed adaptor which is connected acoustically to the various forms of handsets with some type of soft rubber. This stable coupling of the handset to the acoustical tube should not be changed between establishing the reference level and measuring the demodulated levels.

Figure G.6 – Example test setup for measuring the sound pressure level from the acoustic output device of a telephone handset





IEC

^a The feeding bridge current and the balun impedance are to be chosen according to the intended purpose of the EUT. In addition the feeding bridge may provide the power required for the MME to operate.

Figure G.7 – Example test setups for measuring the demodulation on analogue wired network lines



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7.9 Performance Criteria Description for Telephony function

Table H.1 defines the performance criteria for various telephony functions that shall be exercised (or operated) in the presence of the disturbances specified in Table 1 to Table 4.

Table H.1 – Telephony functions, performance criteria

Function to be exercised	Performance criteria		
	A	B	C
Establish new communication	At the additional spot frequency tests ^{a, c}	Performed before and after the application of the test or disturbance	Performed before and after the application of the test or disturbance
Maintain established communication	Yes In addition, the requirements of Annex G for the audio output function shall be satisfied ^c	Yes ^b	No
Terminate established communication	At the additional spot frequency tests ^{a, c}	Performed before and after the application of the test or disturbance	Performed before and after the application of the test or disturbance

Communication refers to a telephone call or other form of voice connection.

^a Applicable to TTE with a dial function that provides dedicated emergency service/safety of life call capability. Where the EUT does not provide this functionality, this limitation shall be stated in the equipment user manual.

^b Communication shall be established prior to the application of the disturbance, the communication shall be maintained and the quality of that communication (for example, volume setting, the level of background noise) shall be maintained after completion of the test or disturbance.

^c Where defined in Clause 5 (for the tests in Table 1 to Table 4), these functional tests shall be performed during the additional spot frequency tests.

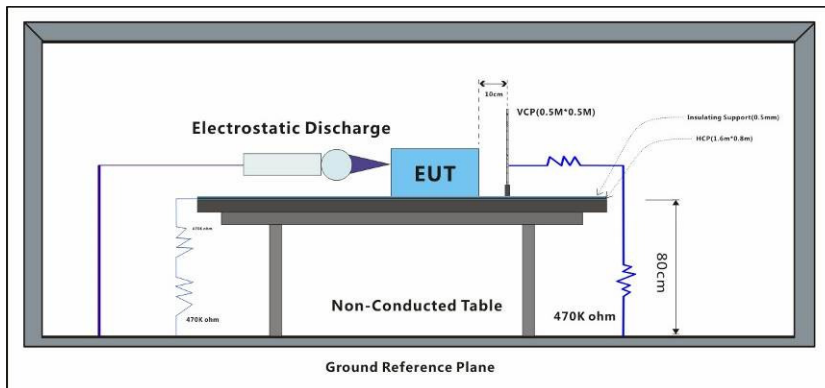


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7.10 Electrostatic Discharge

Test Requirement: EN 55035:2017
 Test Method: EN 61000-4-2:2009
 Performance Criterion: B
 Discharge Impedance: 330Ω/150pF
 Number of Discharge: Minimum 10 times at each test point
 Discharge Mode: Single Discharge
 Discharge Period: 1 second minimum

7.10.1 Test Setup Diagram



7.10.2 E.U.T. Operation

Operating Environment:
 Temperature: 20.8 °C Humidity: 57.6 % RH Atmospheric Pressure: 1020 mbar
 Test mode:
 a: On mode, keep EUT(MYD-Y6JULY2-32E1D-50-I) working normally.
 b: On mode, keep EUT(MYD-Y6JULY2-128N128D-50-I) working normally.
 c: Idle mode.

7.10.3 Test Results:

Observations: Test Point:
 1. All insulated enclosure and seams.
 2. All accessible metal parts of the enclosure.
 3. All side

Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Horizontal Coupling	4	+	3	A
Horizontal Coupling	4	-	3	A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

Results:

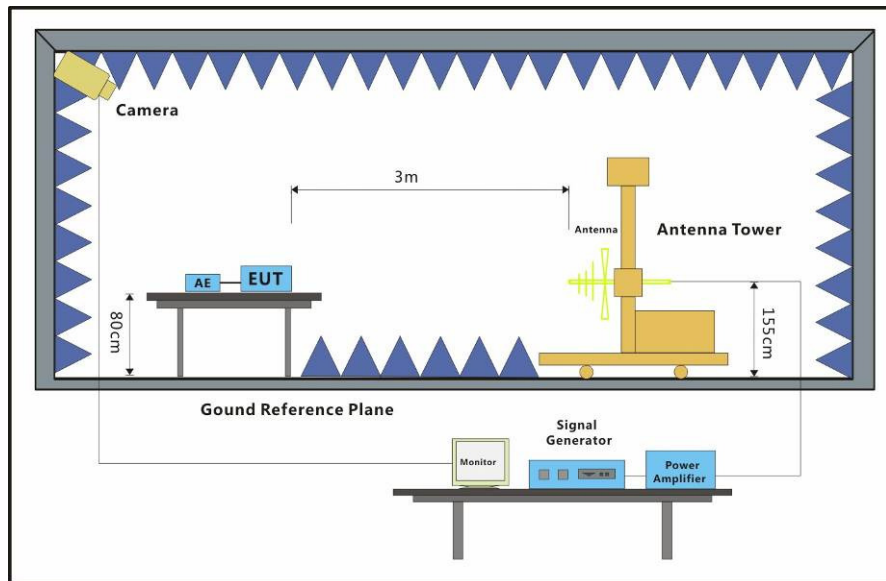
A: No degradation in the performance of the EUT was observed.



7.11 Radiated Immunity (80MHz-1GHz,1800MHz,2600MHz,3500MHz,5000MHz)

Test Requirement: EN 55035:2017
 Test Method: EN 61000-4-3:2006 +A1:2008+A2:2010
 Performance Criterion: A
 Frequency Range: 80MHz to 1GHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz
 Antenna Polarisation: Vertical and Horizontal
 Modulation: 1kHz,80% Amp. Mod,1% increment

7.11.1 Test Setup Diagram



7.11.2 E.U.T. Operation

Operating Environment:
 Temperature: 22.9 °C Humidity: 59.8 % RH Atmospheric Pressure: 1020 mbar
 Test mode:
 a: On mode, keep EUT(MYD-Y6ULY2-32E1D-50-I) working normally.
 c: Idle mode.



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7.11.3 Test Results:

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	3	Front	2s	A
80MHz-1GHz	3	Back	2s	A
80MHz-1GHz	3	Left	2s	A
80MHz-1GHz	3	Right	2s	A
80MHz-1GHz	3	Top	2s	A
80MHz-1GHz	3	Underside	2s	A
1800MHz	3	Front	2s	A
1800MHz	3	Back	2s	A
1800MHz	3	Left	2s	A
1800MHz	3	Right	2s	A
1800MHz	3	Top	2s	A
1800MHz	3	Underside	2s	A
2600MHz	3	Front	2s	A
2600MHz	3	Back	2s	A
2600MHz	3	Left	2s	A
2600MHz	3	Right	2s	A
2600MHz	3	Top	2s	A
2600MHz	3	Underside	2s	A
3500MHz	3	Front	2s	A
3500MHz	3	Back	2s	A
3500MHz	3	Left	2s	A
3500MHz	3	Right	2s	A
3500MHz	3	Top	2s	A
3500MHz	3	Underside	2s	A
5000MHz	3	Front	2s	A
5000MHz	3	Back	2s	A
5000MHz	3	Left	2s	A
5000MHz	3	Right	2s	A
5000MHz	3	Top	2s	A
5000MHz	3	Underside	2s	A

Results:

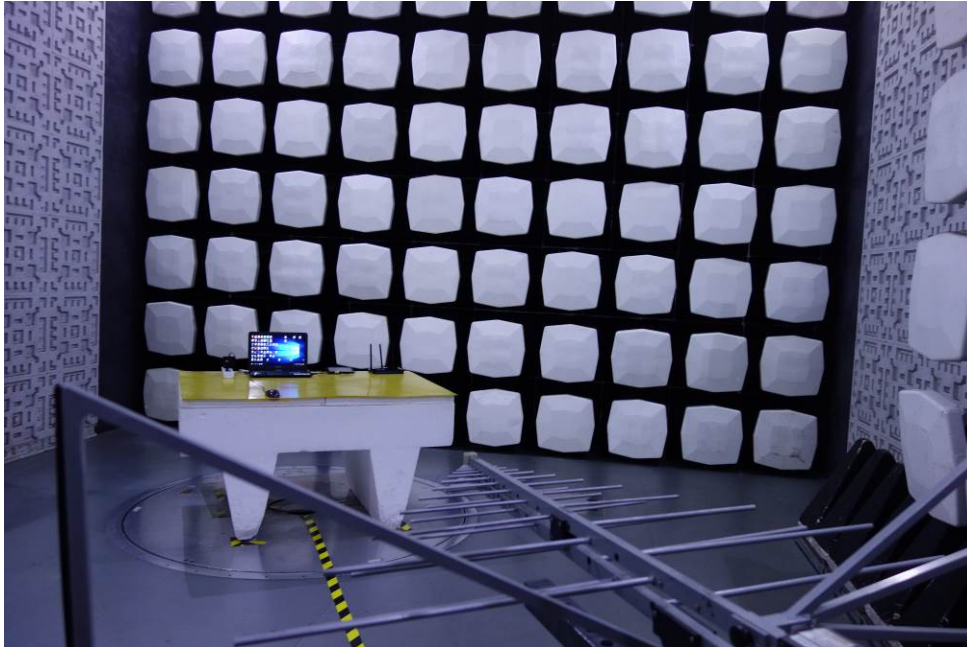
A: No degradation in the performance of the EUT was observed.



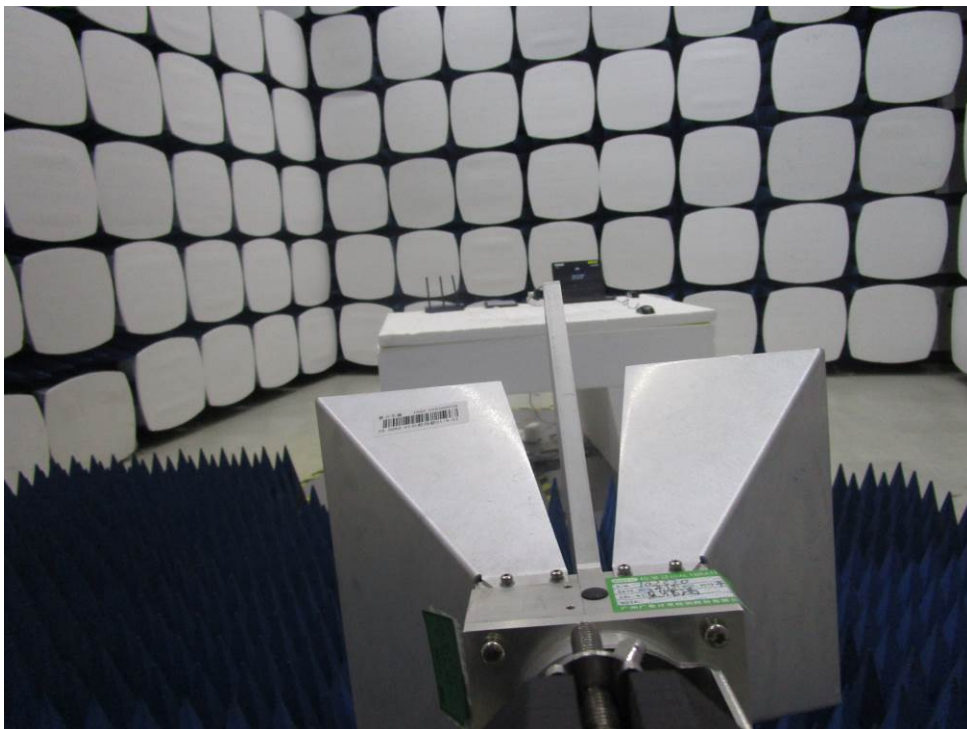
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8 Photographs

8.1 Radiated Emissions (30MHz-1GHz) Test Setup



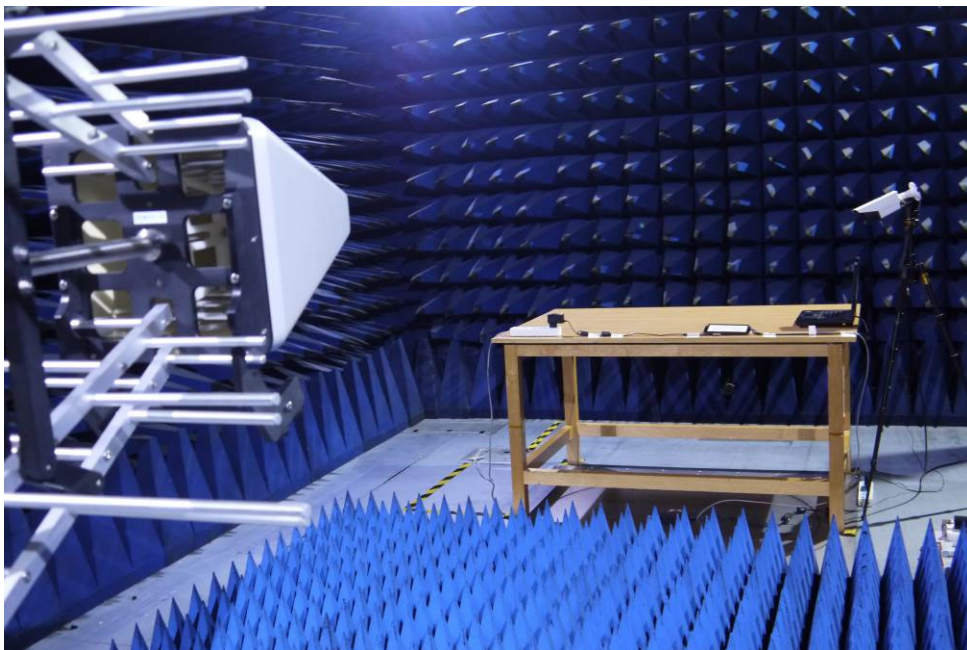
8.2 Radiated Emissions (above 1GHz) Test Setup



8.3 Electrostatic Discharge Test Setup



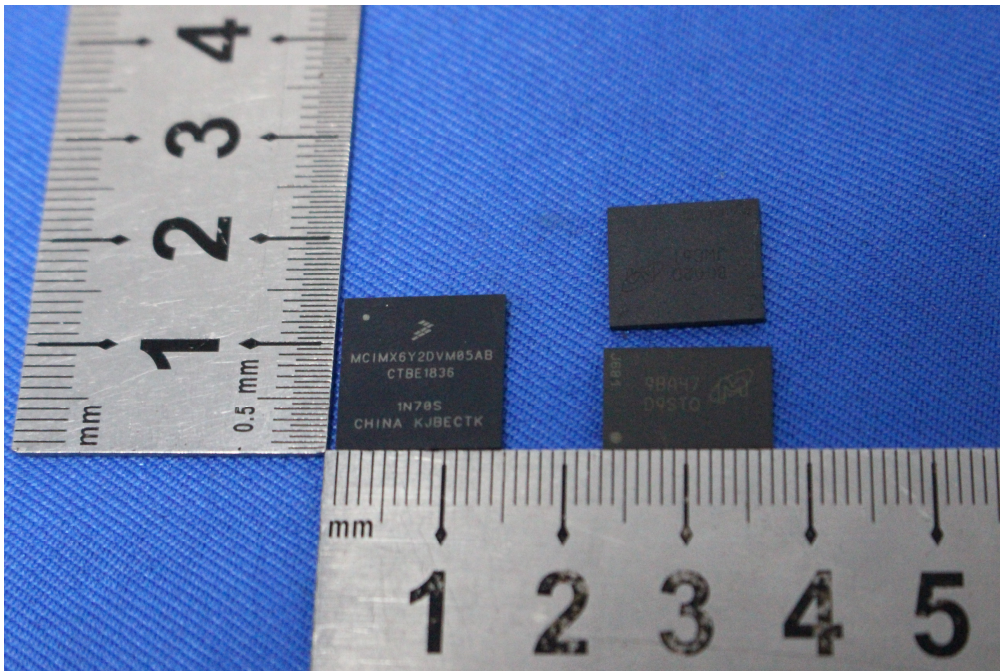
8.4 Radiated Immunity (80MHz-1GHz,1800MHz,2600MHz,3500MHz,5000MHz) Test Setup



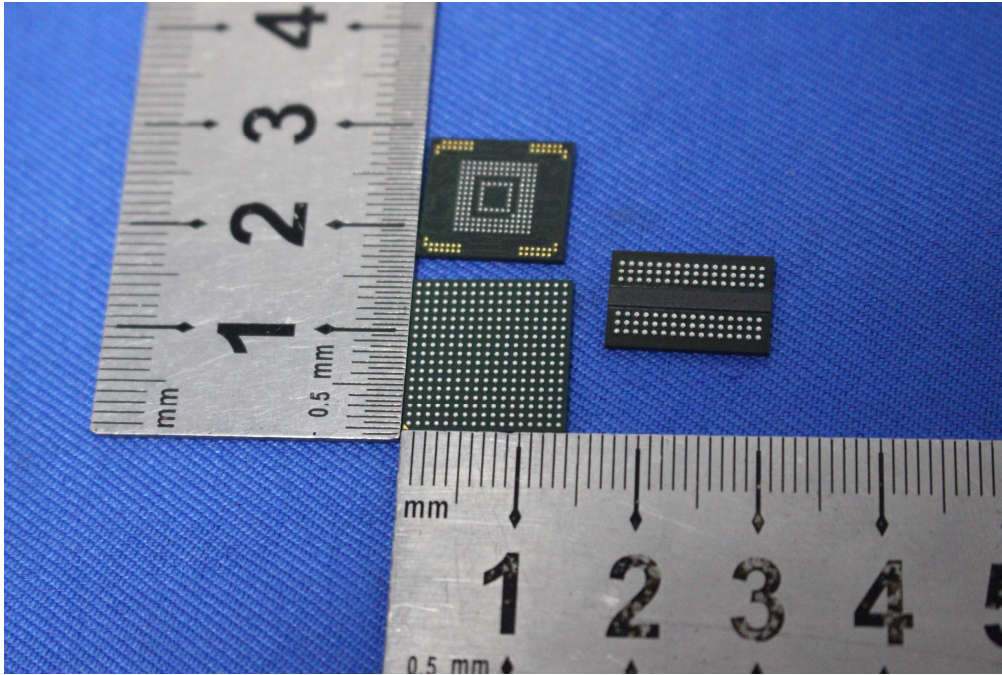
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8.5 EUT Constructional Details (EUT Photos)

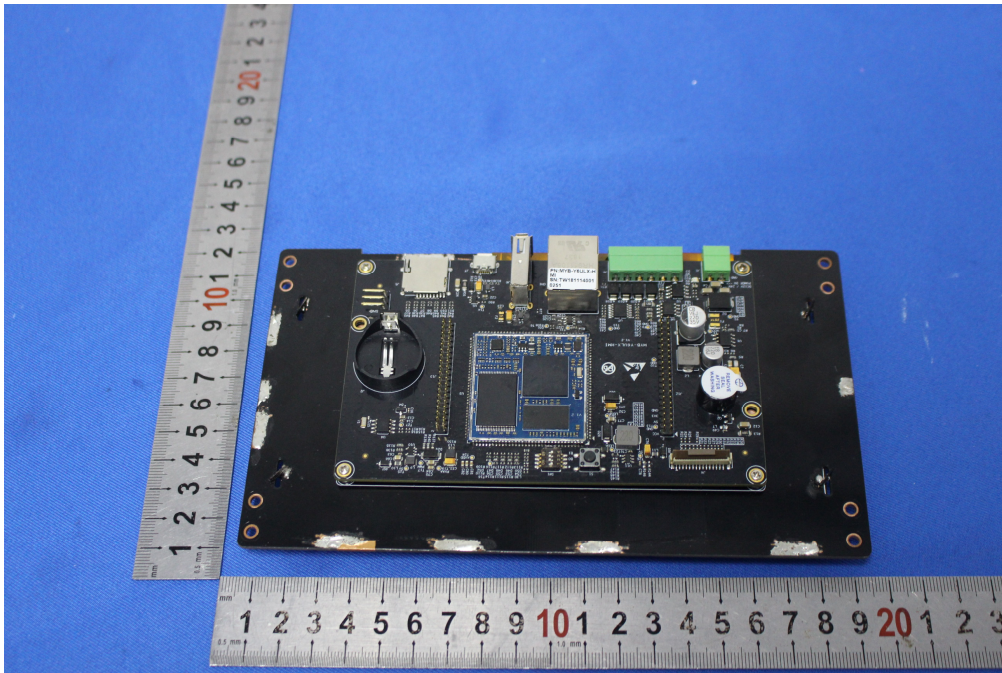
MYD-Y6ULY2-32E1D-50-I

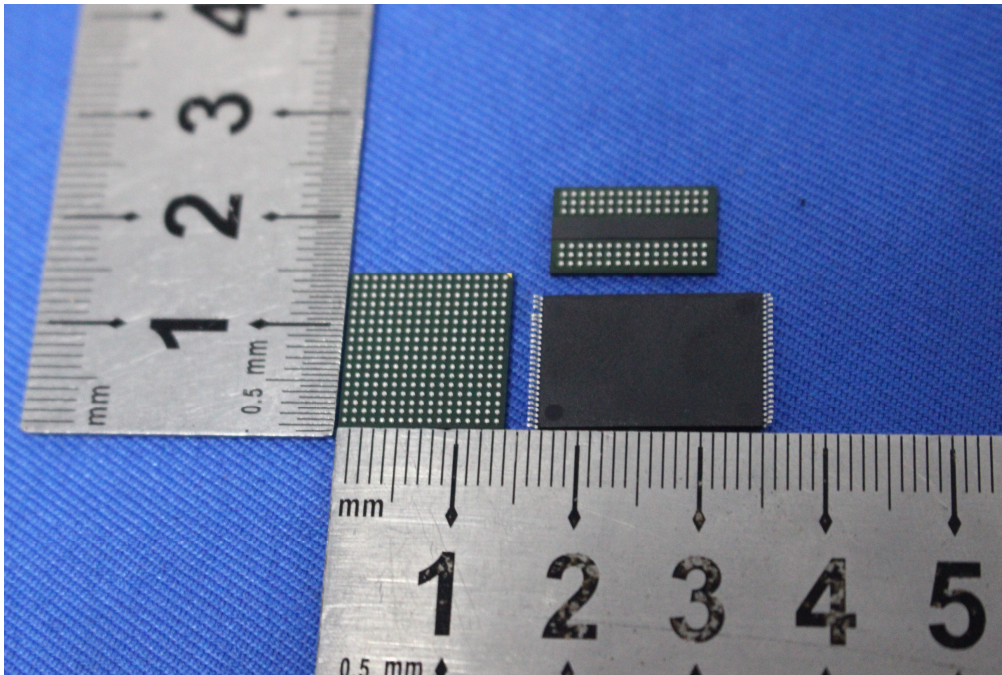
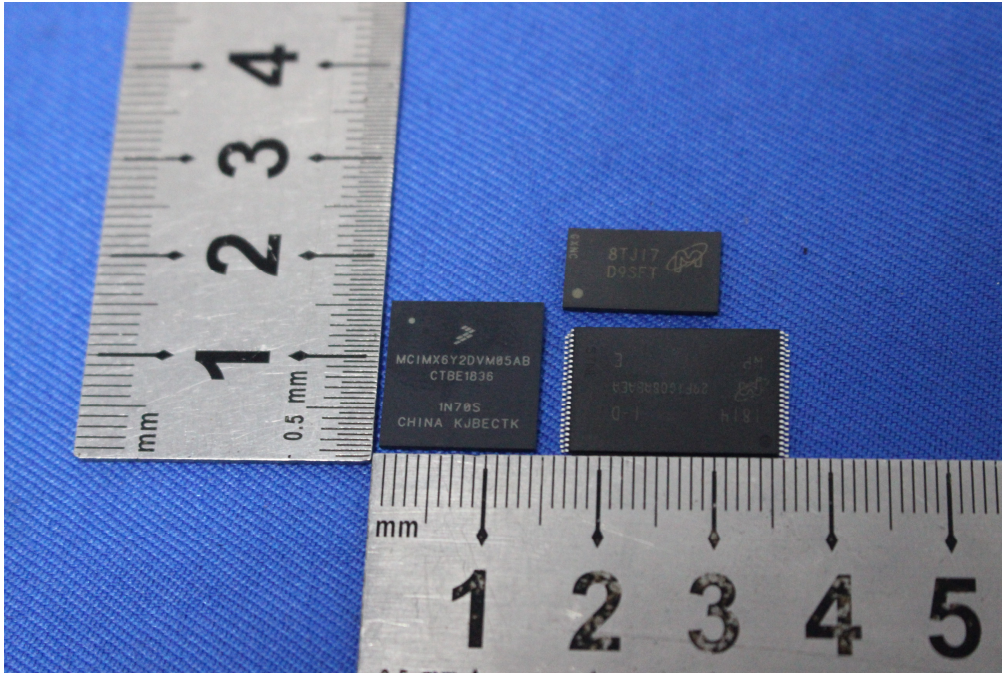


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MYD-Y6ULY2-128N128D-50-I





- End of the Report -

