

TEST REPORT

Application No.: GZEM2012017198HS
Applicant: GD Midea Air-conditioning Equipment Co., Ltd.
Address of Applicant: Lingang Road, Beijiao, Shunde, Foshan, 528311, Guangdong, China
Manufacturer: The same as Applicant
Address of Manufacturer: The same as Applicant
Factory: 1. GD Midea Air-conditioning Equipment Co., Ltd.
2. Guangzhou Hualing Refrigerating Equipment Co., Ltd.
Address of Factory: 1. Lingang Road, Beijiao, Shunde, Foshan, 528311, Guangdong, China
2. 6 Meide 1st Road, Zhujiang Industrial Park, Zhujiang Street, Nansha, Guangzhou, China
Equipment Under Test (EUT):
EUT Name: Air-Conditioner
Model No.: Please refer to Page 2 for all models.
Trade Mark: Midea
Standards: EN 55014-1:2017+A11:2020, EN 55014-2:2015
EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019
Date of Test: 2020-12-10 to 2021-01-28
Date of Issue: 2019-10-21 (for the report GZEM190801536601)
2019-11-29 (for the report GZEM190801536602)
2020-02-19 (for the report GZEM190801536603)
2020-07-27 (for the report GZEM190801536604)
2021-04-15 (for the report GZEM190801536605)

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.




Kobe Jian
EMC Laboratory Manager



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Model No.:

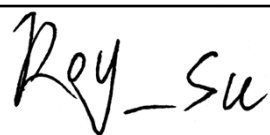
MSAGBU-12HRFN8-QRD0GW
(IU: MSAGBU-12HRFNX-QRD0GW, OU: MOX102-12HFN8-QRD0GW),
MSAGAU-09HRFN8-QRD0GW
(IU: MSAGAU-09HRFNX-QRD0GW, OU: MOX102-09HFN8-QRD0GW),
MSAGCU-18HRFNX-QRD0GW
(IU: MSAGCU-18HRFNX-QRD0GW, OU: MOX301-18HFN8-QRD0GW),
MSAGDU-24HRFN8-QRD0GW
(IU: MSAGDU-24HRFN8-QRD0GW, OU: MOX401-24HFN8-QRD0GW),
MSAGBU-09HRFN8-QRD1GW(GA)
(IU: MSAGBU-09HRFN8-QRD1GW(GA), OU: MOX201-09HFN8-QRD1GW),
MSAGBU-12HRFN8-QRD1GW(GA)
(IU: MSAGBU-12HRFN8-QRD1GW(GA), OU: MOX201-12HFN8-QRD1GW),
IU: AG-09NXD0-I, OU: X1-09N8D0-O; IU: AG-12NXD0-I, OU: X1-12N8D0-O,
IU: AG-18NXD0-I, OU: X3-18N8D0-O; IU: AG-24NXD0-I, OU: X4-24N8D0-O,
IU: AG-09NXD1-I, OU: X2-09N8D1-O; IU: AG-12NXD1-I, OU: X2-12N8D1-O,
MSAGBU-09HRFN8-QRD6GW
(IU: MSAGBU-09HRFN8-QRD1GW(GA), OU: MOX230-09HFN8-QRD6GW),
MSAGBU-12HRFN8-QRD6GW
(IU: MSAGBU-12HRFN8-QRD1GW(GA), OU: MOX230-12HFN8-QRD6GW),
(IU: Indoor Unit, OU: Outdoor Unit). □

□

Please refer to section 2 of this report for details.



Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2019-10-21		Original
01		2019-11-29		Copy report: updated standard and added one new model.
02		2020-02-19		Copy report: added new models and changed Product description.
03		2020-07-27		Copy report: updated standard and added new models.
04		2021-04-15		Copy report: updated standard, changed the product description and added one new alternative UV lamp.

Authorized for issue by:				
Tested By				
		Roy Su /Project Engineer		2020-12-10 to 2021-01-28 Date
Checked By				
		Cherie Luo /Reviewer		2021-02-09 Date



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Guangzhou Branch / Testing Center / EEC Laboratory

No.198 Kezhu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Disturbance at Mains Terminals (150kHz-30MHz)	EN 55014-1:2017 +A11:2020	CISPR 16-2-1	N/A	Pass
Conducted Disturbance at Load Terminals and Additional Terminals	EN 55014-1:2017 +A11:2020	CISPR 16-2-1	N/A	Pass
Disturbance Power	EN 55014-1:2017 +A11:2020	CISPR 16-2-2	N/A	Pass
Discontinuous Disturbance (150kHz-30MHz)	EN 55014-1:2017 +A11:2020	EN 55014-1:2017 +A11:2020	N/A	Pass
Harmonic Current Emission	EN IEC 61000-3-2: 2019	EN IEC 61000-3-2: 2019	Class A	Pass
Voltage Fluctuations and Flicker	EN 61000-3-3:2013 +A1:2019	EN 61000-3-3:2013 +A1:2019	Clause 6.2	Pass

N/A: Not applicable



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Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN 55014-2:2015	EN 61000-4-2:2009	4kV Contact Discharge 8kV Air Discharge	Pass
Electrical Fast Transients/Burst at Power Port and Signal lines	EN 55014-2:2015	EN 61000-4-4:2012	AC cable: $\pm 1.0\text{kV}$ Signal lines: $\pm 0.5\text{kV}$ 5/50ns Tr/Th 5kHz Repetition Frequency	Pass
Surge at Power Port	EN 55014-2:2015	EN 61000-4-5:2014	1.2/50 μs Tr/Th 1kV Line to Line 2kV Line to Ground	Pass
Conducted Immunity at Power Port and Signal lines(150kHz-230MHz)	EN 55014-2:2015	EN 61000-4-6:2014	AC: 3V r.m.s (emf), Signal lines: 1V r.m.s (emf), 80%, 1kHz Amp. Mod.	Pass
Voltage Dips and Interruptions	EN 55014-2:2015	EN 61000-4-11:2004	0 % UT for 0.5per 40 % UT for 10per 70 % UT for 25per UT is Supply Voltage	Pass



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Remark for the report GZEM190801536601

Model No.: MSAGBU-12HRFN8-QRD0GW

(IU: MSAGBU-12HRFNX-QRD0GW, OU: MOX102-12HFN8-QRD0GW),

MSAGAU-09HRFN8-QRD0GW

(IU: MSAGAU-09HRFNX-QRD0GW, OU: MOX102-09HFN8-QRD0GW)

MSAGCU-18HRFNX-QRD0GW

(IU: MSAGCU-18HRFNX-QRD0GW, OU: MOX301-18HFN8-QRD0GW)

MSAGDU-24HRFN8-QRD0GW

(IU: MSAGDU-24HRFN8-QRD0GW, OU: MOX401-24HFN8-QRD0GW)

MSAGBU-09HRFN8-QRD1GW(GA)

(IU: MSAGBU-09HRFN8-QRD1GW(GA), OU: MOX201-09HFN8-QRD1GW,

(IU: Indoor Unit, OU: Outdoor Unit).

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the information as below:

Model No.		Motors	Main boards	Transformer	Compressors
MSAGBU-12HRFN8-QRD0GW	IU: MSAGBU-12HRFNX-QRD0GW	ZKFP-13-8-4	KFR-26G/BP3D N1Y-AG.JD.GN. WXNK.NP1	EE25(5+5)2/ P5-0.547L1	
	OU: MOX102-12HFN8-QRD0GW	ZKFN-20-8-1	KFR-35W/BP3 N-(RX24Tmini +STR6A161+GI B10CH60TS- L+TDP4204F).D .13.WP2-1	EE22(5+4)3P 4-1.1L5	KSK103D33U EZ3
MSAGAU-09HRFN8-QRD0GW	IU: MSAGAU-09HRFNX-QRD0GW	ZKFP-20-8-6-7	KFR-26G/BP3D N1Y-AG.JD.GN. WXNK.NP1	EE25(5+5)2/ P5-0.547L1	
	OU: MOX102-09HFN8-QRD0GW	ZKFN-20-8-1	KFR-35W/BP3 N-(RX24Tmini +STR6A161+GI B10CH60TS- L+TDP4204F).D .13.WP2-1	EE22(5+4)3P 4-1.1L5	KSK103D33U EZ3



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Model No.		Motors	Main boards	Transformer	Compressors
MSAGCU-18HRFNX-QRD0GW	IU: MSAGCU-18HRFNX-QRD0GW,	ZKFP-30-8-3	KFR-26G/BP3D N1Y-AG.JD.GN. WXNK.NP1	EE25(5+5)2/ P5-0.547L1	
	OU: MOX301-18HFN8-QRD0GW	ZKFN-34-10-1	KFR-35W/BP3 N-(RX24Tmini +STR6A161+GI B10CH60TS- L+TDP4204F).D .13.WP2-1	EE22(5+4)3P 4-1.1L5	KSN140D21U FZ
MSAGDU-24HRFN8-QRD0GW	IU: MSAGDU-24HRFN8-QRD0GW	ZKFP-58-8-1-5	EU-KFR70G/BP 3N8Y-AGD(C5)- GW.JD.GN.WX NK.NK2.2(0.5W/ EE0/DY-BUZ)	EE22(5+5)2/ P4-1.52L2	
	OU: MOX401-24HFN8-QRD0GW	ZKFN-80-8-3	KFR-72W/BP3- (RX24Tmini+6A 161+PSS30S92 F6-AG+6822+ LMSR).D.13.WP 2-1	EE22(5+4)3P 4-1.1L5	KTM240D57U MT
MSAGBU-09HRFN8-QRD1GW(GA)	IU: MSAGBU-09HRFN8-QRD1GW(GA)	ZKFP-13-8-4	KFR-26G/BP3D N1Y-AG.JD.GN. WXNK.NP1	EE25(5+5)2/ P5-0.547L1	
	OU: MOX201-09HFN8-QRD1GW	ZKFN-34-10-1	KFR-35W/BP3 N-(RX24Tmini +STR6A161+GI B10CH60TS- L+TDP4204F).D .13.WP2-1	EE22(5+4)3P 4-1.1L5	KSN98D22UF Z



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Therefore full tests were performed on all models in this report:

Model A: MSAGBU-12HRFN8-QRD0GW

(IU: MSAGBU-12HRFNX-QRD0GW, OU: MOX102-12HFN8-QRD0GW),

Model B: MSAGAU-09HRFN8-QRD0GW

(IU: MSAGAU-09HRFNX-QRD0GW, OU: MOX102-09HFN8-QRD0GW)

Model C: MSAGCU-18HRFNX-QRD0GW

(IU: MSAGCU-18HRFNX-QRD0GW, OU: MOX301-18HFN8-QRD0GW)

Model D: MSAGDU-24HRFN8-QRD0GW

(IU: MSAGDU-24HRFN8-QRD0GW, OU: MOX401-24HFN8-QRD0GW)

Model E: MSAGBU-09HRFN8-QRD1GW(GA)

(IU: MSAGBU-09HRFN8-QRD1GW(GA), OU: MOX201-09HFN8-QRD1GW).

Remark for the report GZEM190801536602

This test report GZEM190801536602 is an additional report based on and only valid with the original test report GZEM190801536601, just updated standard and added one new model.

Details were shown as below:

1. Updated Standard:

Standard in original report	Standard in updated report
EN 61000-3-2:2014	EN IEC 61000-3-2:2019

2. Added one new model:

MSAGBU-12HRFN8-QRD1GW(GA)

(IU: MSAGBU-12HRFN8-QRD1GW(GA), OU: MOX201-12HFN8-QRD1GW).

According to the declaration of the applicant, the Model **MSAGBU-12HRFN8-QRD1GW(GA)** supplemented in this report and MSAGBU-09HRFN8-QRD1GW(GA) in the original report were identical, with only difference being the expansion valve was added.

Considering to the difference, new full tests were performed on **MSAGBU-12HRFN8-QRD1GW(GA)** (IU: MSAGBU-12HRFN8-QRD1GW(GA), OU: MOX201-12HFN8-QRD1GW) in this report:

For original test data please refer to the report GZEM190801536601.

Remark for the report GZEM190801536603

This report GZEM190801536603 was an additional report based on the previous report GZEM190801536602, just added new models and changed Product description.

1. Changed Product description:

Product description in previous report	Product description in updated report
Air Conditioner	Split-Type Air-Conditioner



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- 2. Added new models: IU: AG-09NXD0-I, OU: X1-09N8D0-O;**
IU: AG-12NXD0-I, OU: X1-12N8D0-O; IU: AG-18NXD0-I, OU: X3-18N8D0-O;
IU: AG-24NXD0-I, OU: X4-24N8D0-O; IU: AG-09NXD1-I, OU: X2-09N8D1-O;
IU: AG-12NXD1-I, OU: X2-12N8D1-O.

According to the declaration of the applicant, the Models listed in each row of below table were identical, with only difference being the model name:

Model No. in previous report	Model No. in updated report
MSAGAU-09HRFN8-QRD0GW (IU: MSAGAU-09HRFNX-QRD0GW, OU: MOX102-09HFN8-QRD0GW)	IU: AG-09NXD0-I, OU: X1-09N8D0-O
MSAGBU-12HRFN8-QRD0GW (IU: MSAGBU-12HRFNX-QRD0GW, OU: MOX102-12HFN8-QRD0GW)	IU: AG-12NXD0-I, OU: X1-12N8D0-O
MSAGCU-18HRFNX-QRD0GW (IU: MSAGCU-18HRFNX-QRD0GW, OU: MOX301-18HFN8-QRD0GW)	IU: AG-18NXD0-I, OU: X3-18N8D0-O
MSAGDU-24HRFN8-QRD0GW (IU: MSAGDU-24HRFN8-QRD0GW, OU: MOX401-24HFN8-QRD0GW)	IU: AG-24NXD0-I, OU: X4-24N8D0-O
MSAGBU-09HRFN8-QRD1GW(GA) (IU: MSAGBU-09HRFN8-QRD1GW(GA), OU: MOX201-09HFN8-QRD1GW)	IU: AG-09NXD1-I, OU: X2-09N8D1-O
MSAGBU-12HRFN8-QRD1GW(GA) (IU: MSAGBU-12HRFN8-QRD1GW(GA), OU: MOX201-12HFN8-QRD1GW)	IU: AG-12NXD1-I, OU: X2-12N8D1-O

This was considered to be none technical changed and no tests were performed on the product.
Therefore original data was kept in this report GZEM190801536603.

Remark for the report GZEM190801536604

This test report GZEM190801536604 is an additional report based on and only valid with the previous test report GZEM190801536603, just updated standard and added new models.

Details were shown as below:

1. Updated Standard:

Standard in previous report	Standard in updated report
EN 61000-3-3:2013	EN 61000-3-3:2013+A1:2019



2. Added below new models:**MSAGBU-09HRFN8-QRD6GW****(IU: MSAGBU-09HRFN8-QRD1GW(GA), OU: MOX230-09HFN8-QRD6GW);****MSAGBU-12HRFN8-QRD6GW****(IU: MSAGBU-12HRFN8-QRD1GW(GA), OU: MOX230-12HFN8-QRD6GW).**According to the declaration of the applicant, the model **MSAGBU-12HRFN8-QRD6GW****(IU: MSAGBU-12HRFN8-QRD1GW(GA), OU: MOX230-12HFN8-QRD6GW)** supplemented in thisreport and model **MSAGBU-12HRFN8-QRD1GW(GA) (IU: MSAGBU-12HRFN8-QRD1GW(GA),****OU: MOX201-12HFN8-QRD1GW)** in the previous report were identical, except for outdoor unit.

In addition, new models supplemented in this report were identical, except for model name.

Considering to the difference, new full tests were performed on **MSAGBU-12HRFN8-QRD6GW****(IU: MSAGBU-12HRFN8-QRD1GW(GA), OU: MOX230-12HFN8-QRD6GW)** in this report.

For original test data please refer to the reports GZEM190801536601 & GZEM190801536603.

■ Remark for the report GZEM190801536605**This test report GZEM190801536605 is an additional report based on and only valid with the previous test report GZEM190801536604, just updated standard, changed the product description and added one new alternative UV lamp.**

Details were shown as below:

1. Updated Standard:

Standard in previous report	Standard in updated report
EN 55014-1:2017	EN 55014-1:2017+A11:2020

2. Changed the product description.

Product description in previous report	Product description in updated report
Split-Type Air-Conditioner	Air-Conditioner

3. Added one new alternative UV lamp to all models.

Considering to the new UV lamp, new full tests were performed on below models with new UV lamp in this report:

Model A: MSAGBU-12HRFN8-QRD0GW**(IU: MSAGBU-12HRFN8-QRD0GW, OU: MOX102-12HFN8-QRD0GW),****Model B: MSAGBU-12HRFN8-QRD6GW****(IU: MSAGBU-12HRFN8-QRD1GW(GA), OU: MOX230-12HFN8-QRD6GW****Model C: MSAGCU-18HRFN8-QRD0GW****(IU: MSAGCU-18HRFN8-QRD0GW, OU: MOX301-18HFN8-QRD0GW),****Model D: MSAGDU-24HRFN8-QRD0GW****(IU: MSAGDU-24HRFN8-QRD0GW, OU: MOX401-24HFN8-QRD0GW).**

For original test data please refer to the reports GZEM190801536601, GZEM190801536603 & GZEM190801536604.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	Outdoor Unit: AC 220-240V, 50Hz
Power Port:	Indoor Unit: 3 wires x about 1.8m unscreened AC mains cable
Test Voltage:	AC 230V, 50Hz
Interconnection cord:	5 wires x 5m unscreened interconnection cord

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Test Location

All tests were performed at:
Test center of GD Midea Air-conditioning Equipment Co., Ltd.
Address: Lingang Road, Beijiao, Shunde, Foshan, 528311, Guangdong, China
Contact Person: Wenli Yan
Email: yanwl@midea.com
Tel: 0757-23271145

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None

4.6 Monitoring of EUT for All Immunity Test

Visual: Motor running and LED display indication of the EUT.
Audio: Sounding Beeper.



5 Equipment List

Conducted Emission & Click & Interference Power						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YY/MM/DD)	(YY/MM/DD)
1	EMI Test Receiver	Rohde & Schwarz	ESCI	101102	2020/8/6	2021/8/5
2	EMI Test Receiver	Rohde & Schwarz	ESCI	101089	2020/3/5	2021/3/4
3	Absorbing clamp	Rohde & Schwarz	MDS21	100957	2020/12/21	2021/12/20
4	Absorbing clamp	Rohde & Schwarz	MDS21	100958	2020/12/21	2021/12/20
5	Absorbing clamp	Rohde & Schwarz	MDS21	100959	2020/12/21	2021/12/20
6	Absorbing clamp	Rohde & Schwarz	MDS21	100401	2020/8/12	2021/8/11
8	Absorbing clamp	Rohde & Schwarz	MDS21	100656	2020/8/12	2021/8/11
9	V-Networks(Artificial Mains Networks)	SCHWARZBECK	NNLK8121	8121-621	2020/8/6	2021/8/5
10	V-Networks(Artificial Mains Networks)	SCHWARZBECK	NNLK8121	8121-699	2020/12/6	2021/12/5
11	V-Networks(Artificial Mains Networks)	SCHWARZBECK	NNLK8121	8121-638	2020/3/5	2021/3/4
12	V-Networks(Artificial Mains Networks)	SCHWARZBECK	NNLK8121	8121-636	2020/3/5	2021/3/4
13	Pulse Limit	Rohde & Schwarz	ESH3-Z2	101761	2020/8/6	2021/8/5
14	Pulse Limit	Rohde & Schwarz	ESH3-Z2	101902	2020/2/26	2021/2/25
15	Pulse Limit	Rohde & Schwarz	ESH3-Z2	101903	2020/2/26	2021/2/25
16	Click Analyser	AFJ	AFJDDA55	14041605036	2020/7/20	2021/7/19
17	Click Analyser	AFJ	AFJDDA55	14041824115	2020/8/6	2021/8/5
18	Assistant Absorbing clamp	luthi	FTC40*15E	5742	2020/5/11	2021/5/10
19	Assistant Absorbing clamp	luthi	FTC 101	5071	2020/2/26	2021/2/25
20	Passive voltage probe	ROHDE&SCHWARZ	ESH2-Z3	100610	2020/12/30	2021/12/29
21	Passive voltage probe	ROHDE&SCHWARZ	ESH2-Z3	100611	2020/12/30	2021/12/29
22	Passive voltage probe	ROHDE&SCHWARZ	ESH2-Z3	100612	2020/12/30	2021/12/29
23	Passive voltage probe	ROHDE&SCHWARZ	ESH2-Z3	100613	2020/12/30	2021/12/29
24	RF Switching	EVERFINE	RF-A41	G185841CD1361114	2020/12/30	2021/12/29
25	RF Switching	EVERFINE	RF-A41	G185841CD1361113	2020/12/30	2021/12/29
26	RF Switching	Compliance Direction	RSU-A4	8820010	2020/3/5	2021/3/4
27	Coaxial-Cable	HUBER+SUHNER	1m	003	2020/2/26	2021/2/25
28	Coaxial-Cable	HUBER+SUHNER	2m	EMC-11	2020/2/26	2021/2/25
29	Coaxial-Cable	HUBER+SUHNER	0.5M	EMC-19	2020/3/5	2021/3/5
30	Coaxial-Cable	HUBER+SUHNER	0.5M	EMC-18	2020/3/5	2021/3/5
31	Coaxial-Cable	HUBER+SUHNER	7m	EMC-16	2020/2/26	2021/2/25



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Harmonic Current /Flicker						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
					(YY/MM/DD)	(YY/MM/DD)
1	Power source	EM TEST	ACS503N30	P1421134515	2020/5/7	2021/5/6
2	Harmonic and Flicker test system	EM TEST	DPA503N/AIF503N32.1	P1342125054/P1413132941	2020/5/7	2021/5/6
3	Harmonic and Flicker Analyzer System	TESEQ	INA2197 NA2196 CCN 1000-3-75	1607A00622 1606A03019 1606A02959	2020/5/8	2021/5/7
4	AC Source	TESEQ	NSG1007-60-400	1605A03180/1611A02896	2020/5/8	2021/5/7
Electrostatic Discharge Immunity						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
					(YY/MM/DD)	(YY/MM/DD)
1	ESD Simulator	TESEQ	NSG437	1084	2020/5/9	2021/5/8
2	ESD Simulator	EM TEST	ESDNX30	23089	2020/12/6	2021/12/5
EFT/ Burst						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
					(YY/MM/DD)	(YY/MM/DD)
2	Capacitive clamp	EM TEST	HFK	0109-22	2020/10/29	2021/10/28
3	Capacitive clamp	EM TEST	HFK	0109-22 (1)	2020/10/29	2021/10/28
3	Generator	EM TEST	EFT 500 N5.1	P1805213907	2020/8/6	2021/8/5
Surge Immunity						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
					(YY/MM/DD)	(YY/MM/DD)
1	ULTRA COMPACT GENERATOR	TESEQ	NSG 3060	1833	2020/10/29	2021/10/28
2	3 PHASE COUPLING NETWORK	EM TEST	CDN 3063	2206	2020/10/29	2021/10/28
3	ULTRA COMPACT GENERATOR	EM TEST	VCS500-N8	V1133110472	2020/3/5	2021/3/4
4	3 PHASE COUPLING NETWORK	EM TEST	CNI 503 5S	V1133110473	2020/3/5	2021/3/4



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CI						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YY/MM/DD)	(YY/MM/DD)
1	Signal line COUPLING AND DECOUPLING NETWORK	Luthi	EM101	36191	2020/10/29	2021/10/28
2	Signal line COUPLING NETWORK	EM TEST	CDN S8 RJ45	P1345125804	2020/10/29	2021/10/28
3	COUPLING NETWORK	EM TEST	CDN M5-32	P1346125922	2020/10/29	2021/10/28
4	RF Generator	EM TEST	CWS500N1	P1315117096	2020/5/11	2021/5/10
5	Attenuator	EM Test	HAT-20+	YUU29101544-01	2020/5/11	2021/5/10
6	Attenuator	EM Test	ATTA 6/75	P1306112984	2020/10/29	2021/10/28
7	Attenuator	EM TEST	R100N	P1402128642/P1402128643	2020/5/11	2021/5/10
8	Attenuator	EM TEST	R100N	P1402128641/P1402128643	2020/5/11	2021/5/10
9	Attenuator	EM TEST	R100N	P1402128641/P1402128642	2020/5/11	2021/5/10
10	(3 Phase Coupling Decoupling Network)	SCHAFFNER	CDNM525	21133	2020/10/29	2021/10/28
11	RF Generator	TESEQ	NSG-4070	37531	2020/8/6	2021/8/5
12	single-phase Coupling /decoupling networks	TESEQ	CDN M016	21267	2020/10/29	2021/10/28
13	EM Clamp	TESEQ	KEMZ 801	22028	2020/10/29	2021/10/28
14	single-phase Coupling /decoupling networks	TESEQ	CDN M332	56622	2020/8/6	2021/8/5
15	(3 Phase Coupling Decoupling Network)	TESEQ	CDN M532	57473	2020/8/6	2021/8/5
Voltage Dips and Interruptions Immunity						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YY/MM/DD)	(YY/MM/DD)
1	Power drop simulator	Teseq	NSG2200-3	1607A01980	2020/5/21	2021/5/20



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6 Emission Test Results

6.1 Conducted Disturbance at Mains Terminals (150kHz-30MHz)

Test Requirement:	EN 55014-1:2017+A11:2020
Test Method:	CISPR 16-2-1
Frequency Range:	150kHz to 30MHz
Limit:	
0.15MHz-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 59dB(μV)-46dB(μV) average
0.5MHz-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5MHz-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 150KHz to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C Humidity: 47 % RH Atmospheric Pressure: 1020 mbar

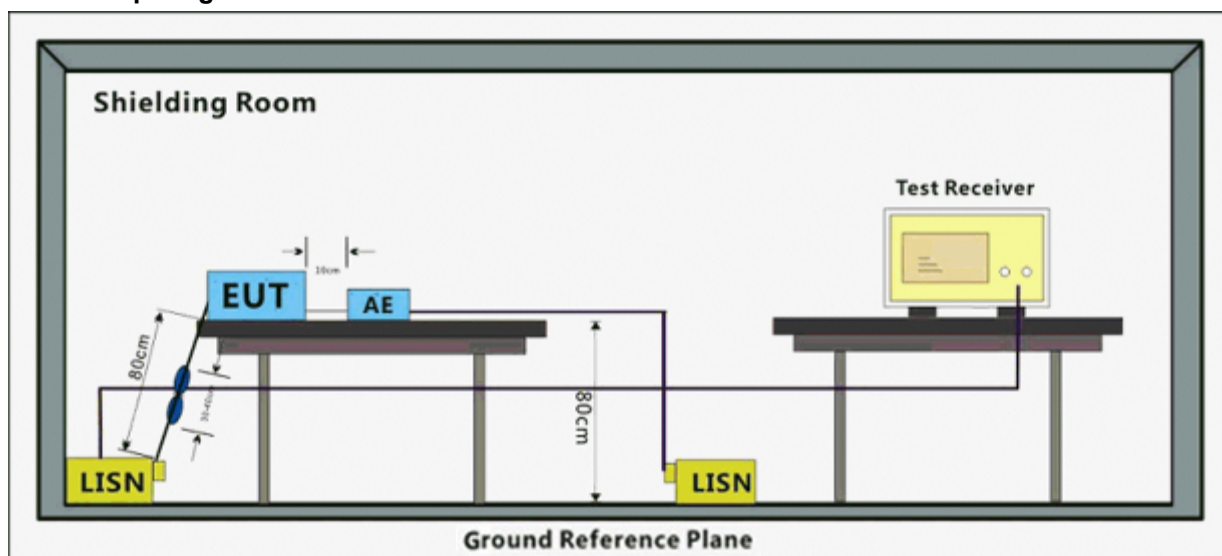
Pretest these
modes to find
the worst case:

- Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.
- Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

The worst case
for final test:

- Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

6.1.2 Test Setup Diagram



SGS-CSTC Standards Technical Services Co., Ltd.
 Guangzhou Branch Testing Center EEC Laboratory

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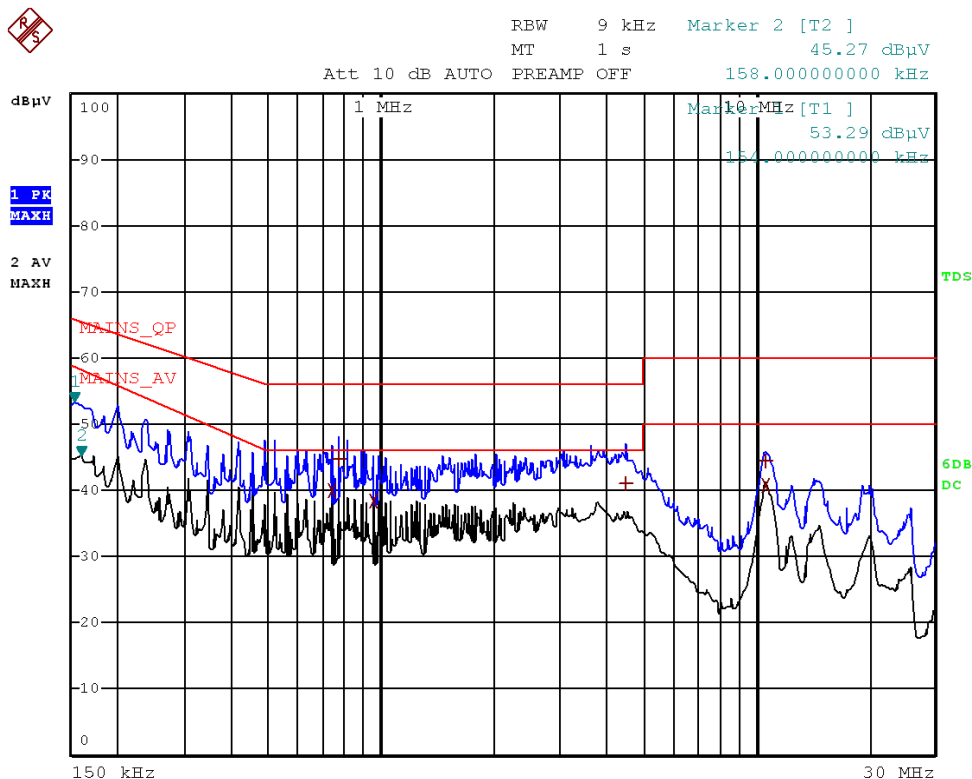
No.198 Kezhu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

For Model A

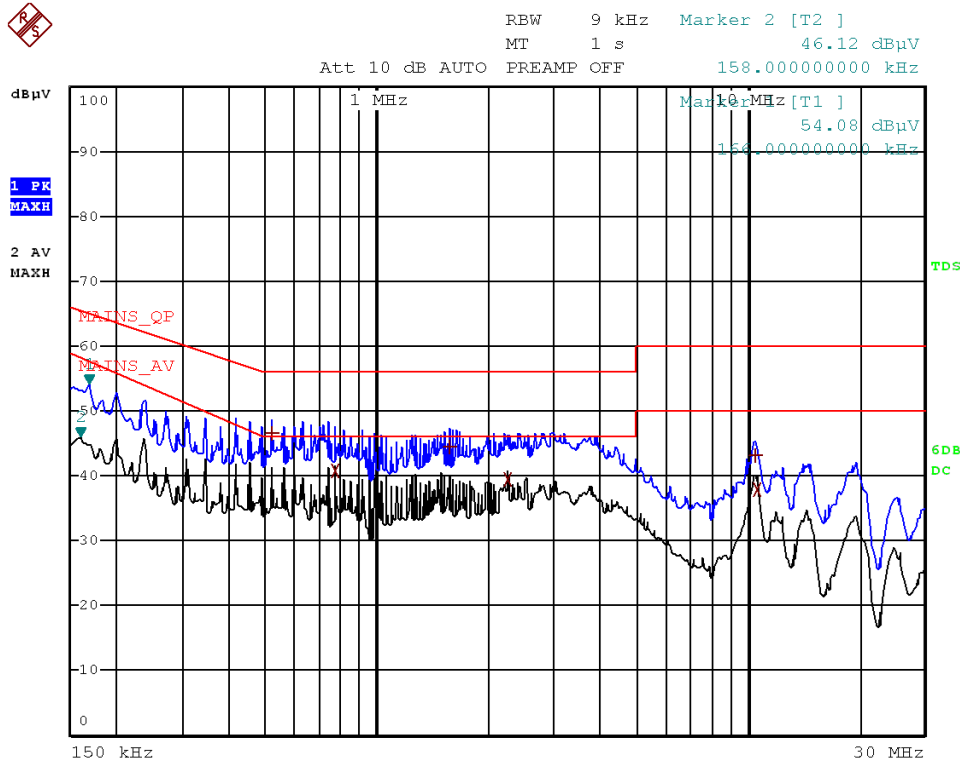
COOL-L



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	738 kHz	40.06	-5.93
2 Average	954 kHz	38.41	-7.58
2 Average	10.59 MHz	40.76	-9.23
1 Quasi Peak	774 kHz	44.73	-11.26
1 Quasi Peak	4.51 MHz	40.96	-15.03
1 Quasi Peak	10.626 MHz	44.47	-15.52



COOL-N



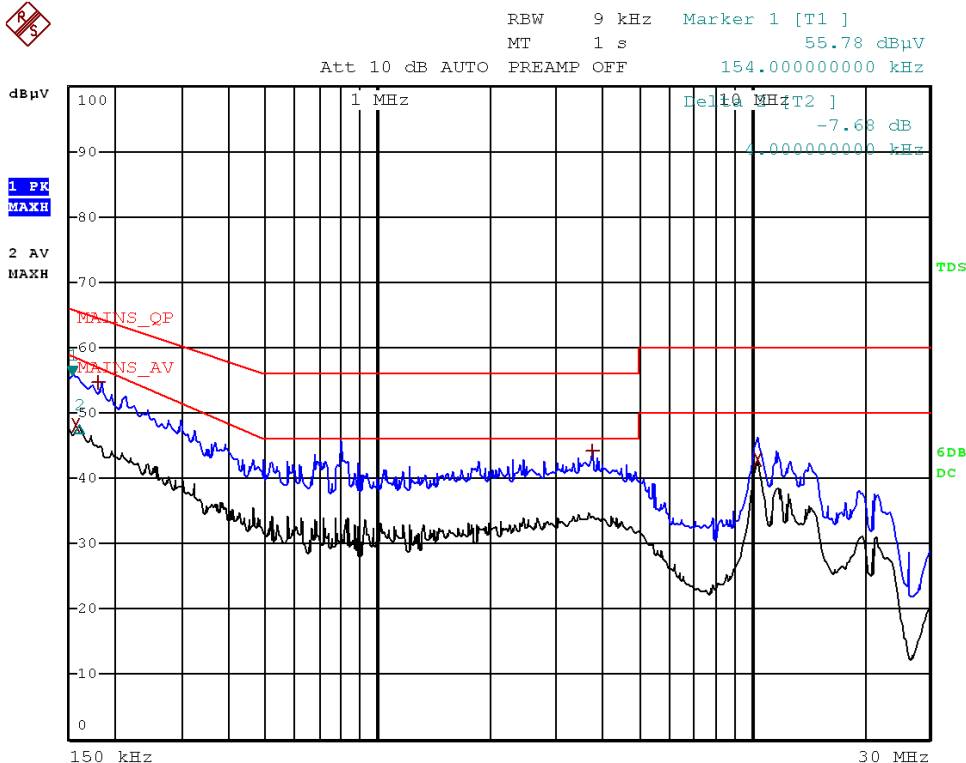
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	774 kHz	40.77	-5.22
2 Average	2.246 MHz	39.48	-6.51
1 Quasi Peak	522 kHz	46.51	-9.49
1 Quasi Peak	1.566 MHz	44.42	-11.57
2 Average	10.594 MHz	38.03	-11.96
1 Quasi Peak	10.558 MHz	43.22	-16.77



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For Model B COOL-L



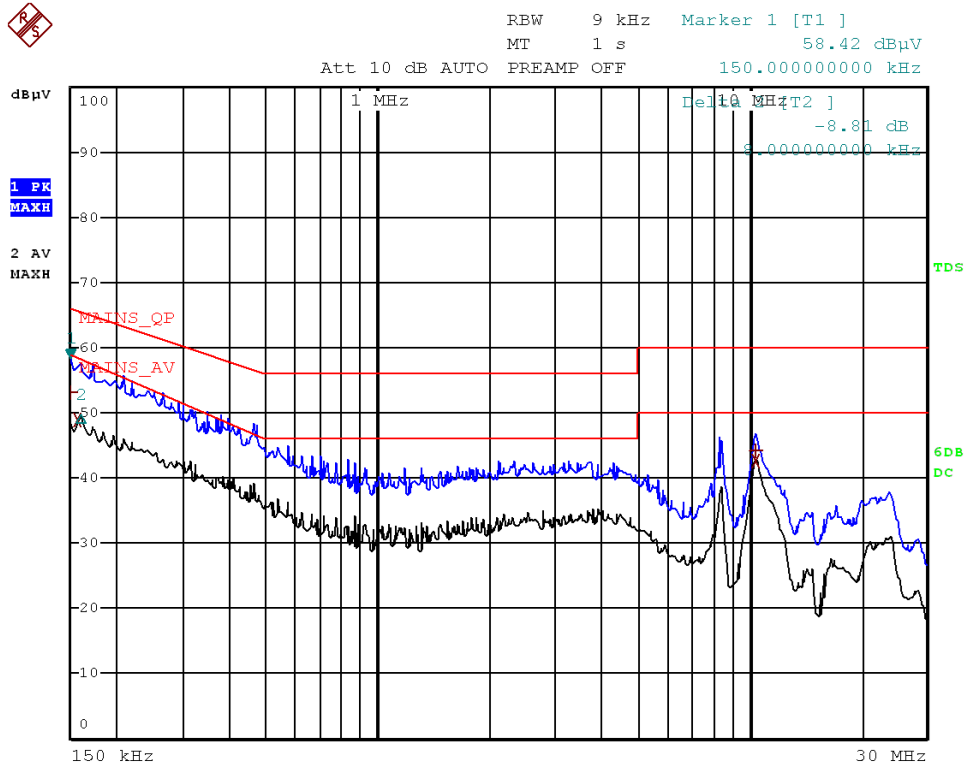
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	10.386 MHz	42.25	-7.74
2 Average	158 kHz	47.63	-10.80
1 Quasi Peak	182 kHz	50.61	-13.78
1 Quasi Peak	3.774 MHz	38.10	-17.90



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COOL-N



	TRACE	FREQUENCY	LEVEL dBuV	DELTA LIMIT dB
2	Average	10.386 MHz	42.78	-7.22
2	Average	158 kHz	48.95	-9.48
1	Quasi Peak	150 kHz	53.21	-12.78
1	Quasi Peak	10.35 MHz	44.32	-15.67



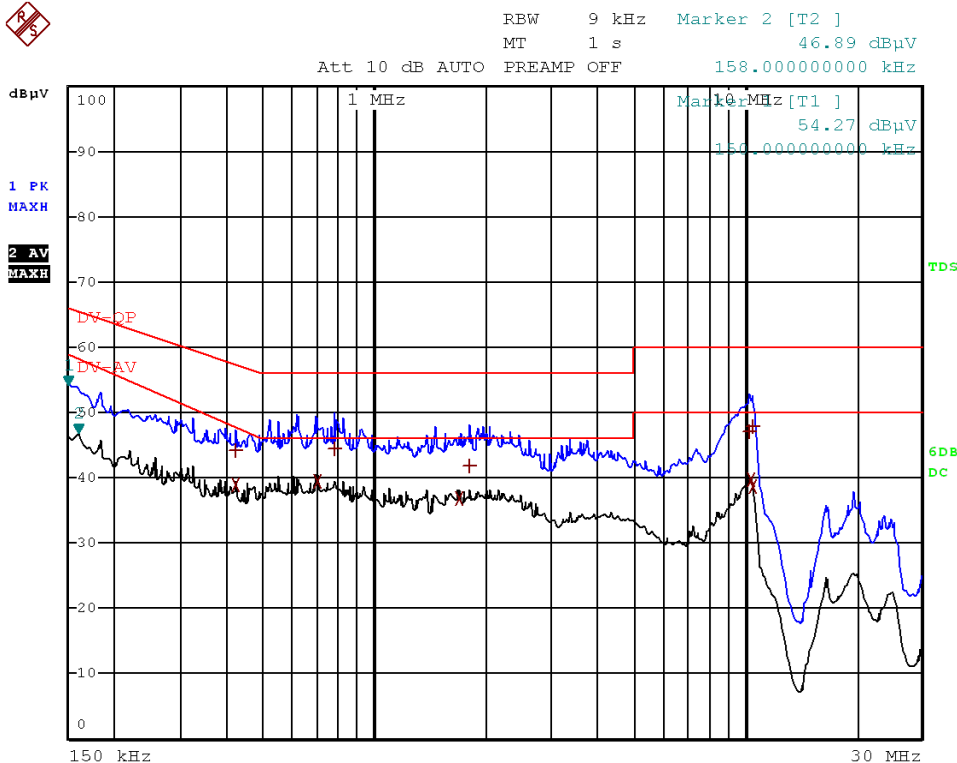
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For Model C
COOL-L



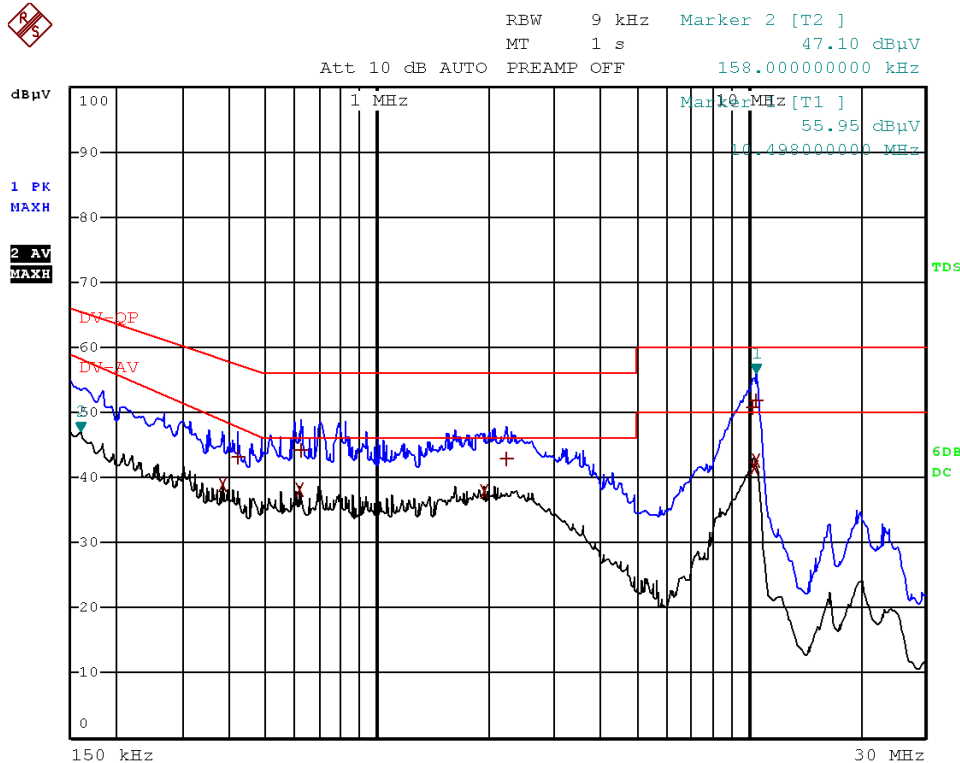
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	698 kHz	39.57	-6.42
2 Average	418 kHz	39.02	-8.91
2 Average	1.694 MHz	36.94	-9.05
2 Average	10.394 MHz	39.68	-10.31
2 Average	10.494 MHz	38.68	-11.31
1 Quasi Peak	778 kHz	44.58	-11.41
1 Quasi Peak	10.494 MHz	47.82	-12.17
1 Quasi Peak	10.29 MHz	47.16	-12.84
1 Quasi Peak	418 kHz	44.33	-13.14
1 Quasi Peak	1.806 MHz	41.93	-14.06



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COOL-N



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	10.494 MHz	42.70	-7.29
2 Average	618 kHz	38.31	-7.68
1 Quasi Peak	10.498 MHz	51.94	-8.05
2 Average	1.95 MHz	37.80	-8.19
2 Average	10.39 MHz	41.72	-8.27
1 Quasi Peak	10.29 MHz	50.70	-9.29
2 Average	382 kHz	38.86	-10.03
1 Quasi Peak	626 kHz	44.24	-11.75
1 Quasi Peak	2.242 MHz	42.78	-13.21
1 Quasi Peak	418 kHz	43.25	-14.23



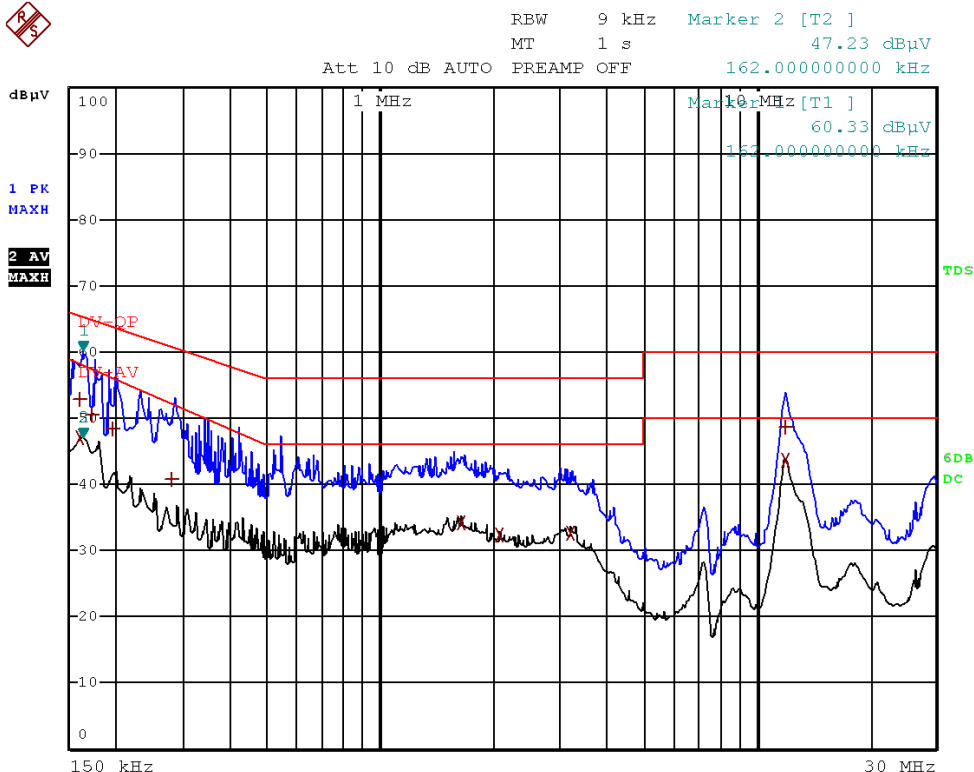
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For Model D COOL-L



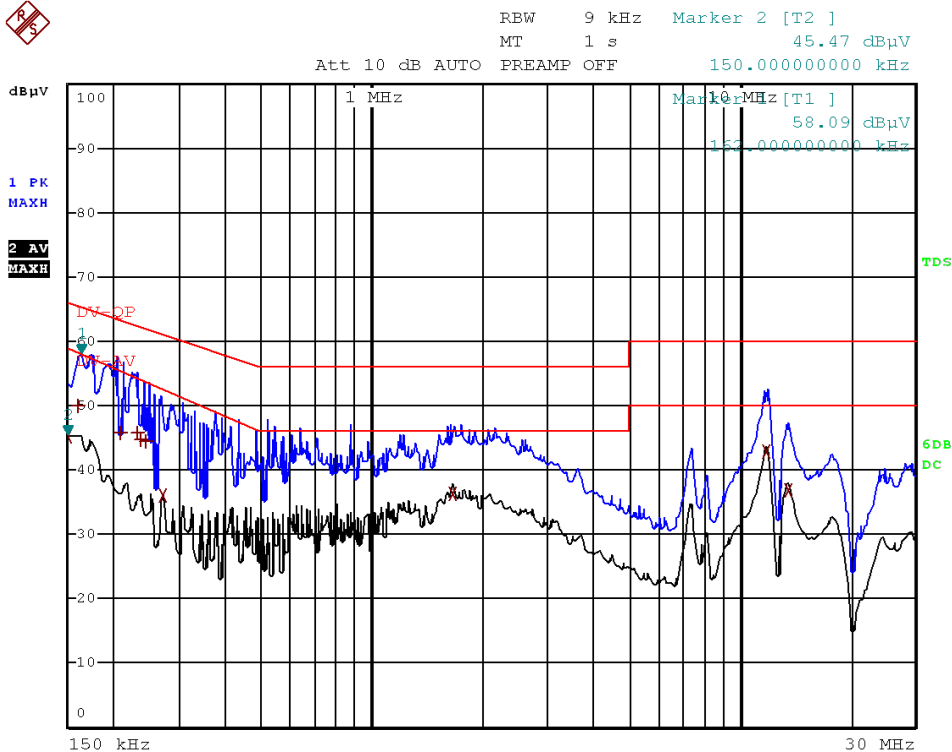
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	11.926 MHz	43.75	6.24
2 Average	162 kHz	47.16	-11.00
1 Quasi Peak	11.914 MHz	48.60	-11.39
2 Average	1.646 MHz	34.30	-11.69
1 Quasi Peak	162 kHz	52.87	-12.48
2 Average	3.106 MHz	32.65	-13.34
2 Average	2.066 MHz	32.39	-13.60
1 Quasi Peak	174 kHz	50.58	-14.17
1 Quasi Peak	198 kHz	48.50	-15.19
1 Quasi Peak	282 kHz	40.78	-19.96



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COOL-N



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	11.782 MHz	42.93	-7.06
2 Average	1.666 MHz	36.40	-9.59
2 Average	13.578 MHz	36.80	-13.19
2 Average	150 kHz	45.25	-13.74
1 Quasi Peak	162 kHz	50.08	-15.28
2 Average	270 kHz	36.16	-16.48
1 Quasi Peak	230 kHz	45.72	-16.72
1 Quasi Peak	238 kHz	44.86	-17.30
1 Quasi Peak	246 kHz	44.43	-17.46
1 Quasi Peak	210 kHz	45.73	-17.47



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6.2 Conducted Disturbance at Load Terminals and Additional Terminals

Test Requirement: EN 55014-1:2017+A11:2020
 Test Method: CISPR 16-2-1
 Limit:
 0.15MHz - 0.5 MHz 80dB(μV) quasi-peak, 70dB(μV) average
 0.5MHz-30MHz 74dB(μV) quasi-peak, 64dB(μV) average
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15MHz to 30MHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C Humidity: 47 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

The worst case for final test: a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.



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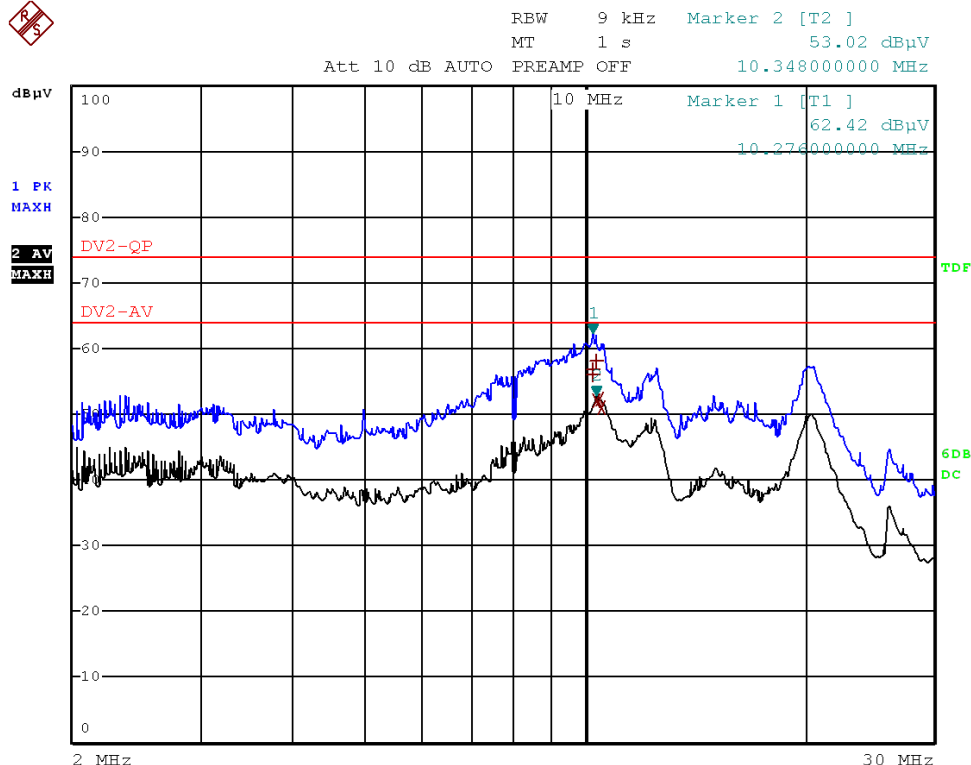
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6.2.2 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

For Model A

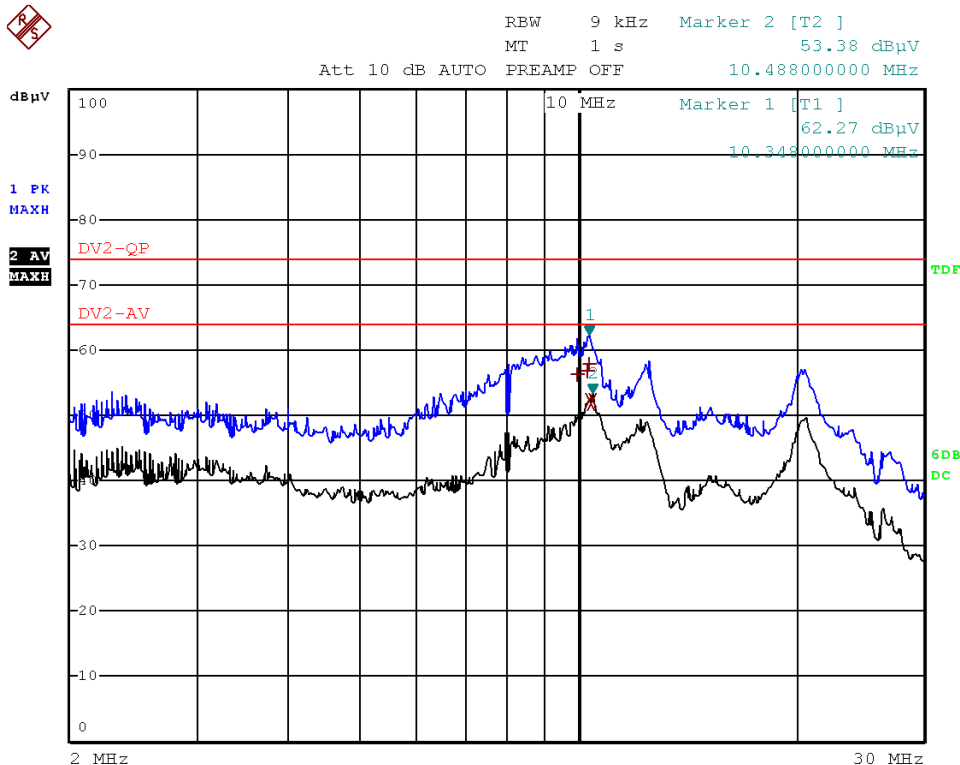
COOL-IN-W



TRACE		FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2	Average	10.488 MHz	52.23	-11.76
2	Average	10.348 MHz	52.02	-11.98
2	Average	10.524 MHz	50.97	-13.02
1	Quasi Peak	10.348 MHz	58.05	-15.94
1	Quasi Peak	10.276 MHz	56.91	-17.08
1	Quasi Peak	10.244 MHz	56.06	-17.93



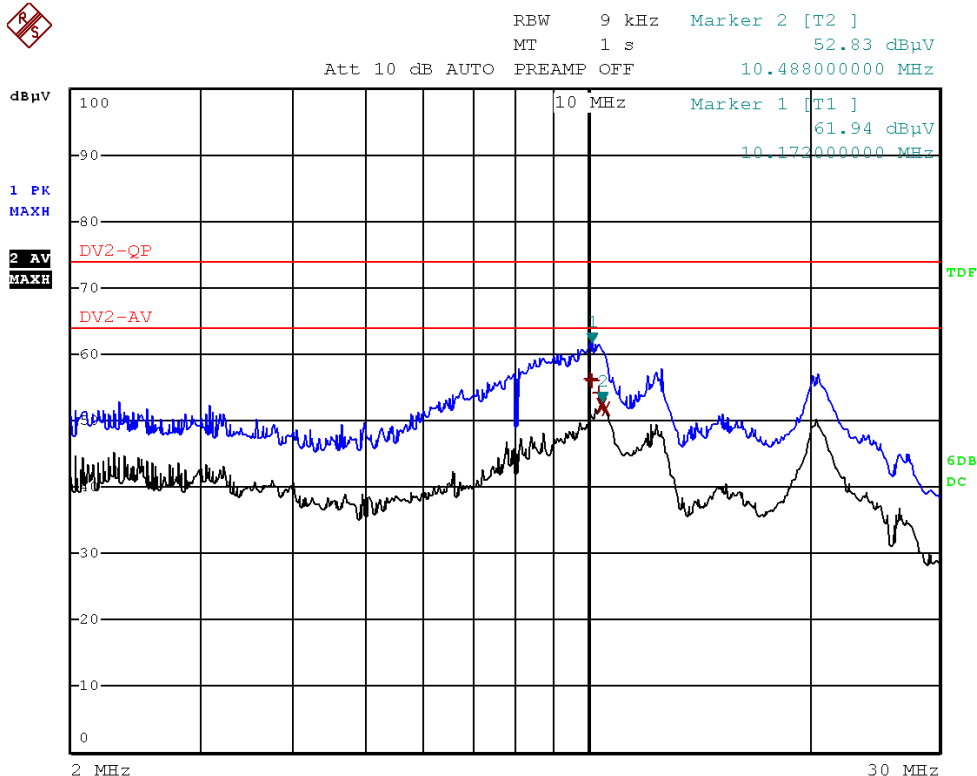
COOL-IN-L



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	10.488 MHz	52.30	-11.61
2 Average	10.348 MHz	52.35	-11.65
2 Average	10.384 MHz	51.87	-12.12
1 Quasi Peak	10.340 MHz	57.90	-16.01
1 Quasi Peak	10.312 MHz	56.85	-17.14
1 Quasi Peak	10 MHz	56.41	-17.58



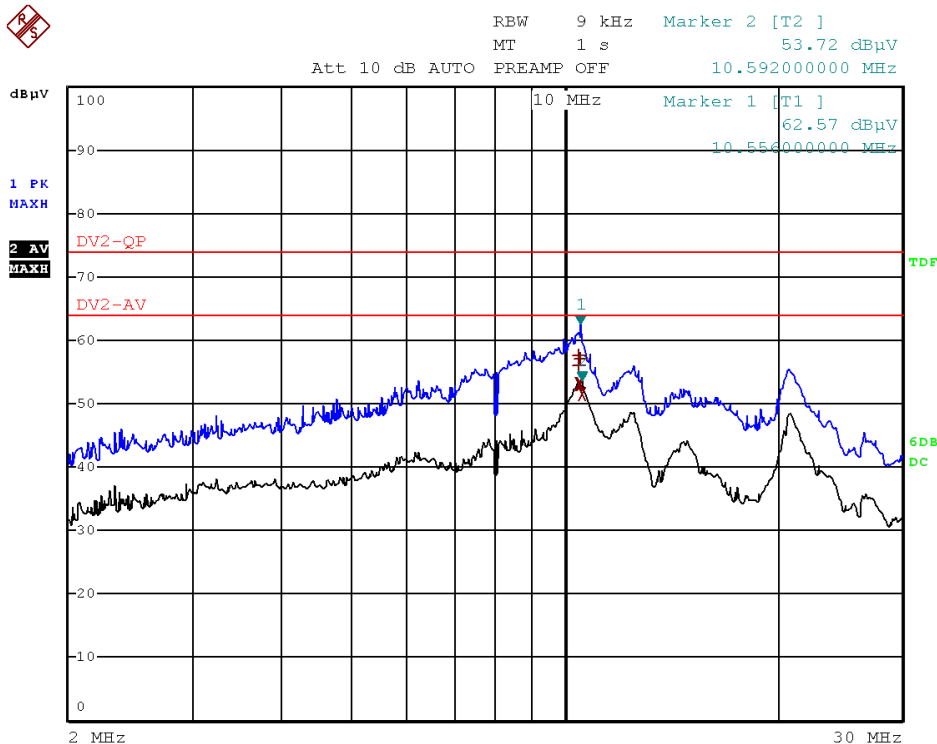
COOL-IN-N



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	10.452 MHz	52.36	-11.63
2 Average	10.488 MHz	52.30	-11.69
2 Average	10.592 MHz	51.70	-12.29
1 Quasi Peak	10.1 MHz	56.20	-17.79
1 Quasi Peak	10.172 MHz	56.05	-17.94
1 Quasi Peak	10.356 MHz	54.29	-19.70



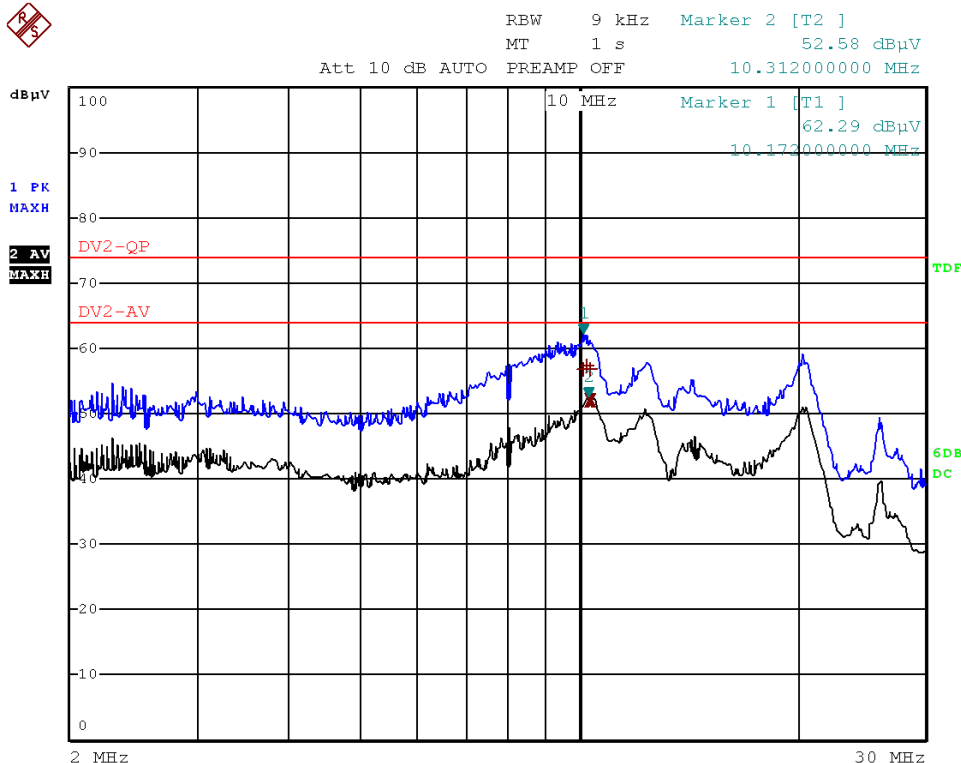
COOL-IN-PE



	TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2	Average	10.52 MHz	53.18	-10.81
2	Average	10.484 MHz	53.13	-10.87
2	Average	10.592 MHz	51.59	-12.40
1	Quasi Peak	10.484 MHz	57.48	-16.51
1	Quasi Peak	10.556 MHz	57.15	-16.84
1	Quasi Peak	10.516 MHz	56.15	-17.84



COOL-IN-S



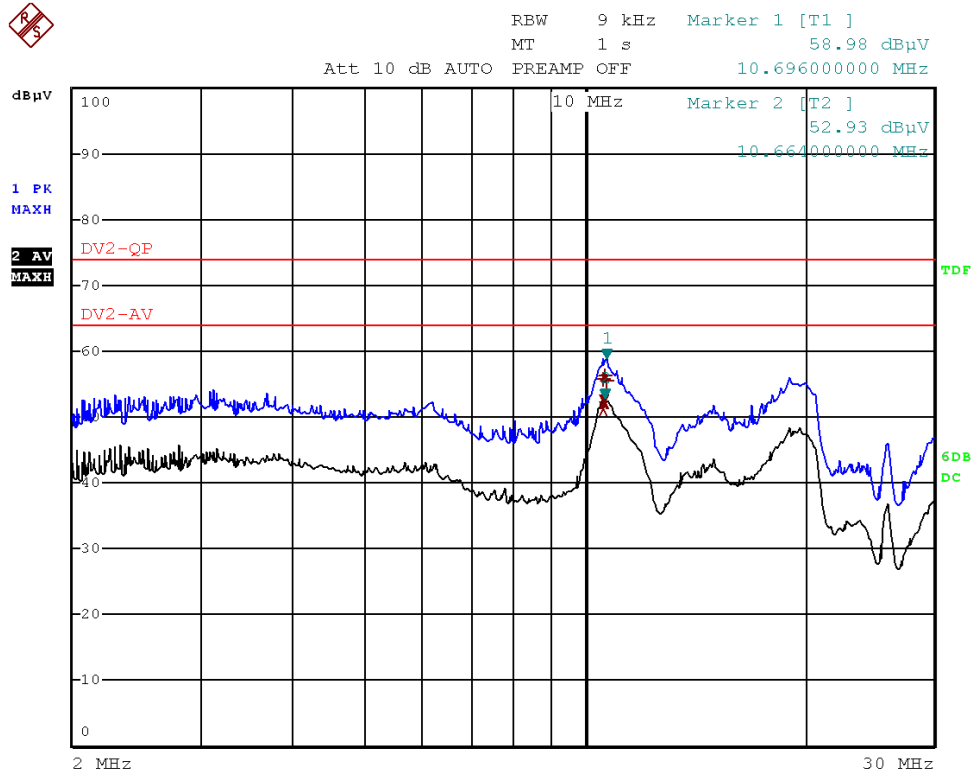
	TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2	Average	10.312 MHz	52.10	-11.01
2	Average	10.416 MHz	52.13	-11.86
2	Average	10.384 MHz	52.10	-11.89
1	Quasi Peak	10.244 MHz	57.43	-16.56
1	Quasi Peak	10.352 MHz	56.76	-17.23
1	Quasi Peak	10.172 MHz	56.71	-17.28



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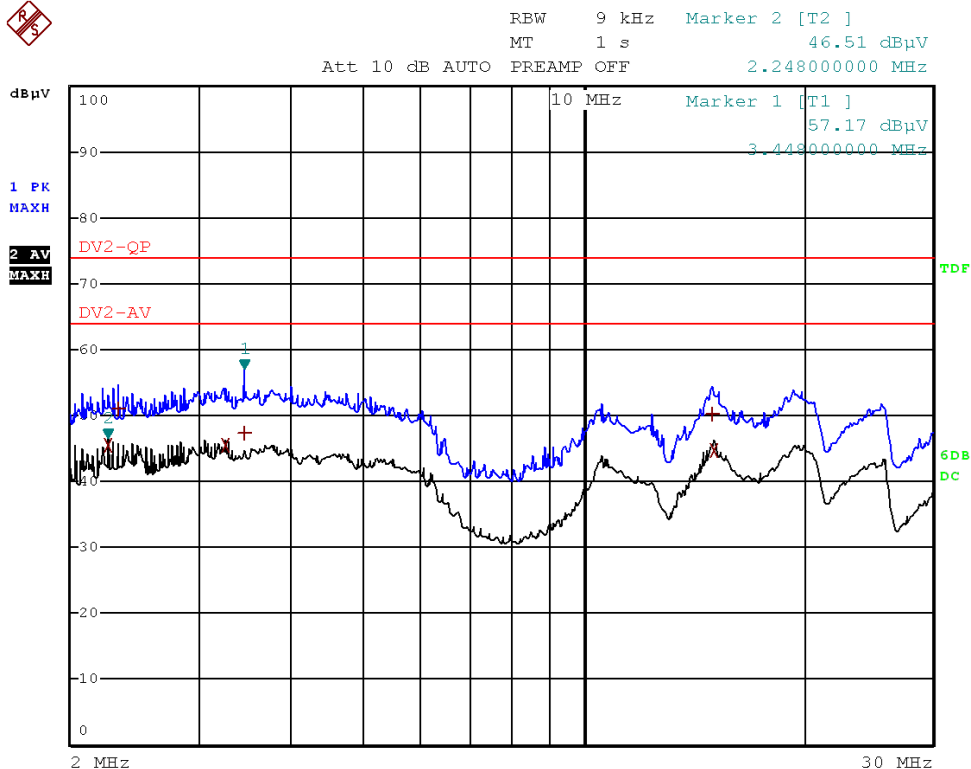
COOL-OUT-W



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	10.664 MHz	52.48	-11.51
2 Average	10.628 MHz	52.45	-11.54
2 Average	10.596 MHz	51.22	-12.77
1 Quasi Peak	10.664 MHz	56.18	-17.82
1 Quasi Peak	10.592 MHz	55.85	-18.14
1 Quasi Peak	10.696 MHz	55.57	-18.42



COOL-OUT-L



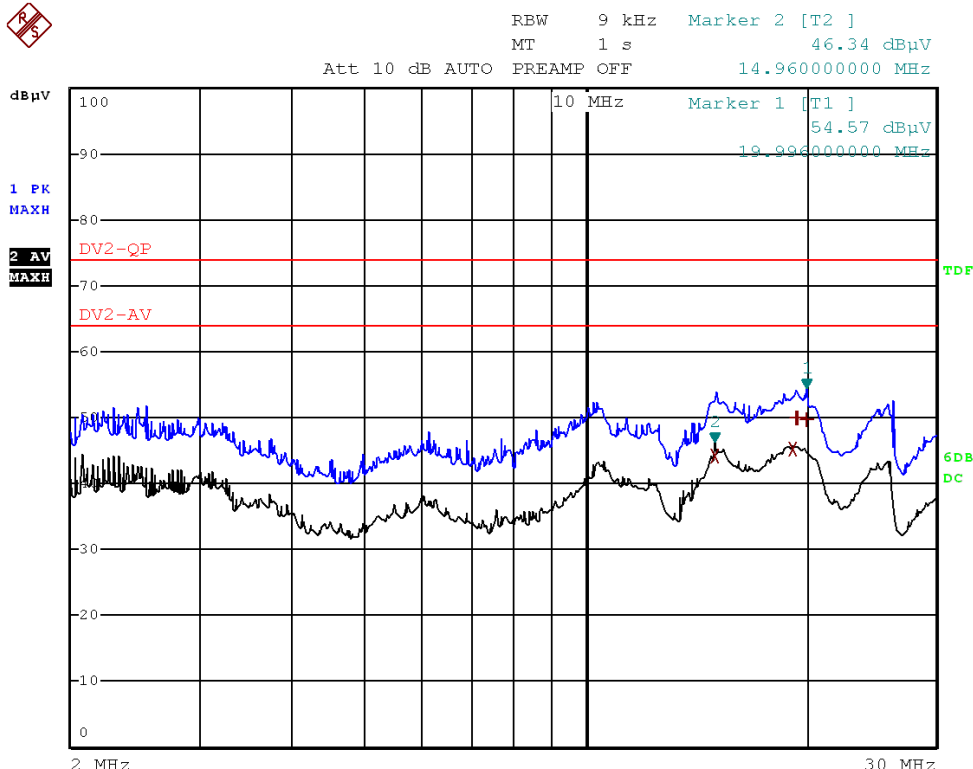
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	2.248 MHz	45.50	-18.49
2 Average	3.256 MHz	45.43	-18.56
2 Average	15.104 MHz	44.71	-19.28
1 Quasi Peak	2.32 MHz	51.17	-22.82
1 Quasi Peak	14.96 MHz	50.33	-23.66
1 Quasi Peak	3.448 MHz	47.35	-26.64



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COOL-OUT-N



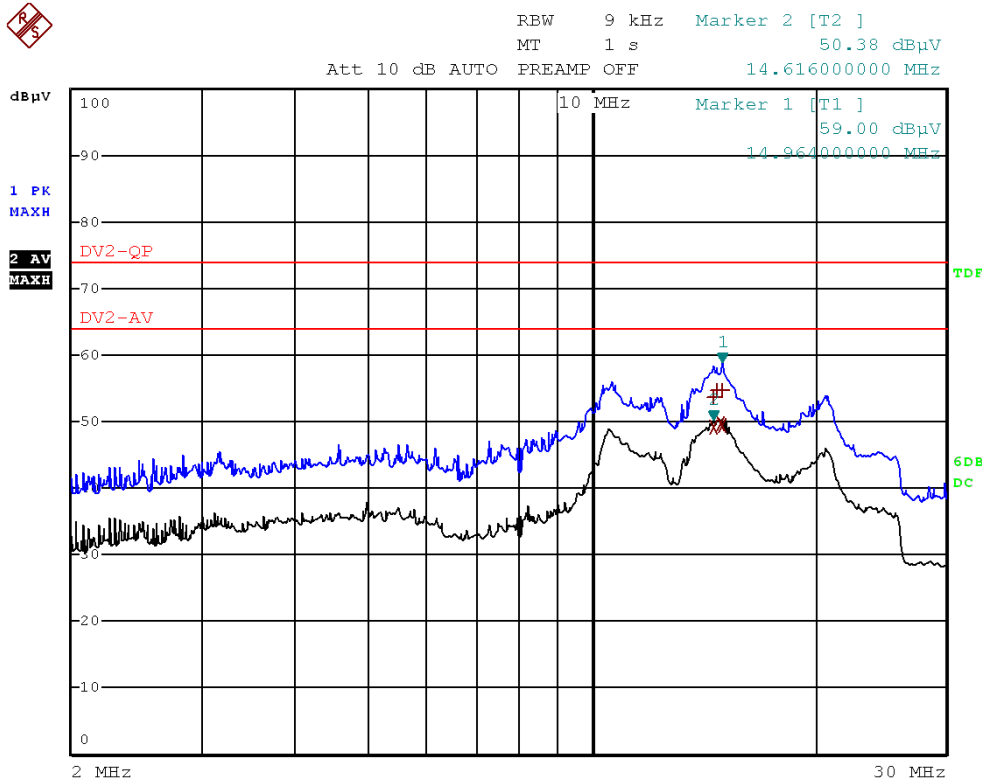
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	19.12 MHz	45.18	-18.81
2 Average	19.156 MHz	45.17	-18.82
2 Average	14.96 MHz	44.29	-19.70
1 Quasi Peak	19.296 MHz	50.12	-23.87
1 Quasi Peak	19.476 MHz	50.00	-23.99
1 Quasi Peak	19.996 MHz	49.62	-24.37



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COOL-OUT-PE



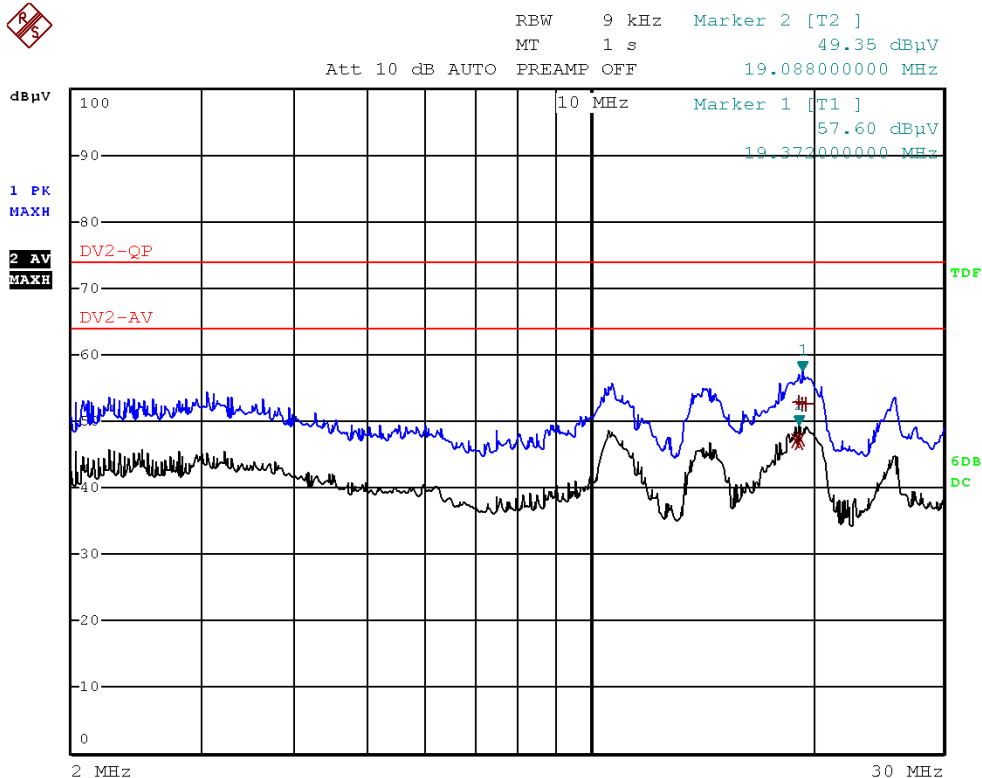
TRACE	FREQUENCY	LEVEL dBuV	DELTA LIMIT dB
2 Average	14.896 MHz	49.67	-14.32
2 Average	14.964 MHz	49.53	-14.46
2 Average	14.616 MHz	49.29	-14.71
1 Quasi Peak	14.964 MHz	54.72	-19.27
1 Quasi Peak	14.788 MHz	54.60	-19.39
1 Quasi Peak	14.62 MHz	53.61	-20.38



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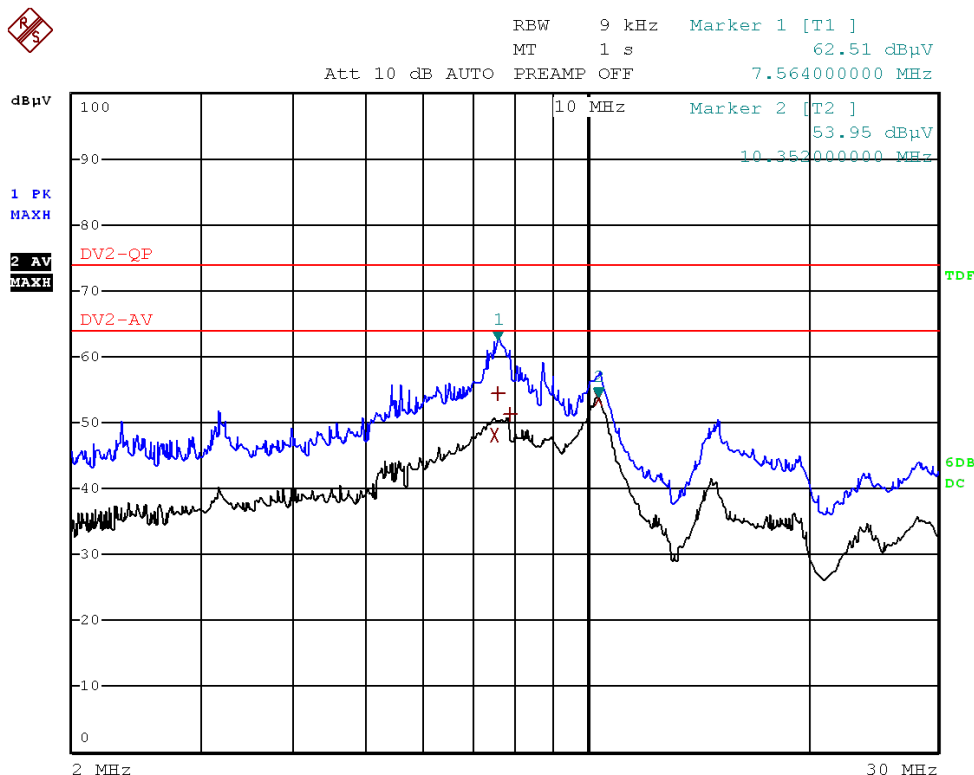
COOL-OUT-S



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	19.264 MHz	47.37	-16.62
2 Average	18.912 MHz	47.02	-16.97
2 Average	19.088 MHz	46.96	-17.03
1 Quasi Peak	19.088 MHz	52.85	-21.14
1 Quasi Peak	19.372 MHz	52.64	-21.35
1 Quasi Peak	19.536 MHz	52.52	-21.47



For Model B COOL-IN-W



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	10.352 MHz	53.60	-10.39
2 Average	7.484 MHz	48.09	-15.90
1 Quasi Peak	7.564 MHz	54.40	-19.59
1 Quasi Peak	7.872 MHz	51.42	-22.57



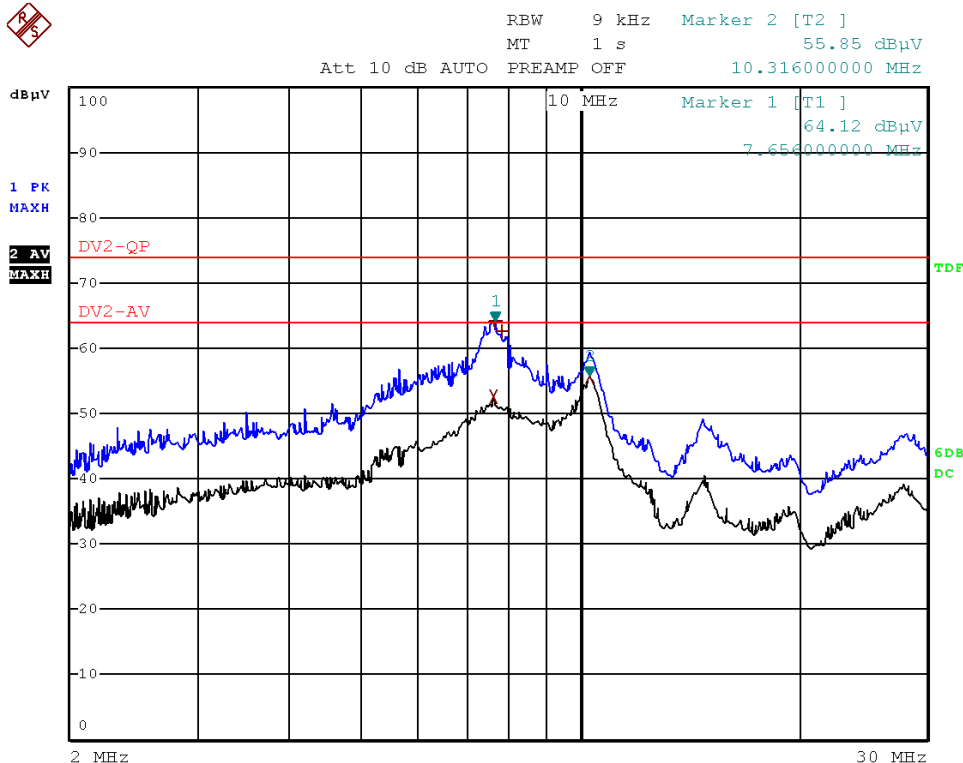
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COOL-IN-1L



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	10.316 MHz	55.44	-8.55
2 Average	7.624 MHz	51.33	-12.66
1 Quasi Peak	7.656 MHz	57.62	-16.37
1 Quasi Peak	7.832 MHz	57.11	-16.89

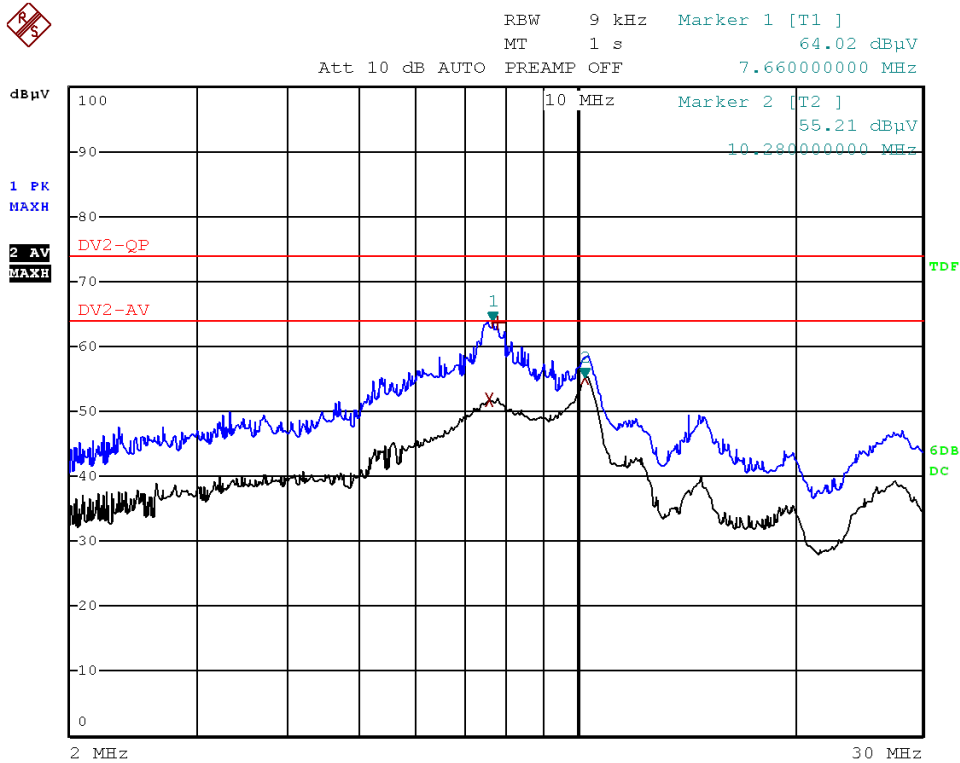


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COOL-IN-2N



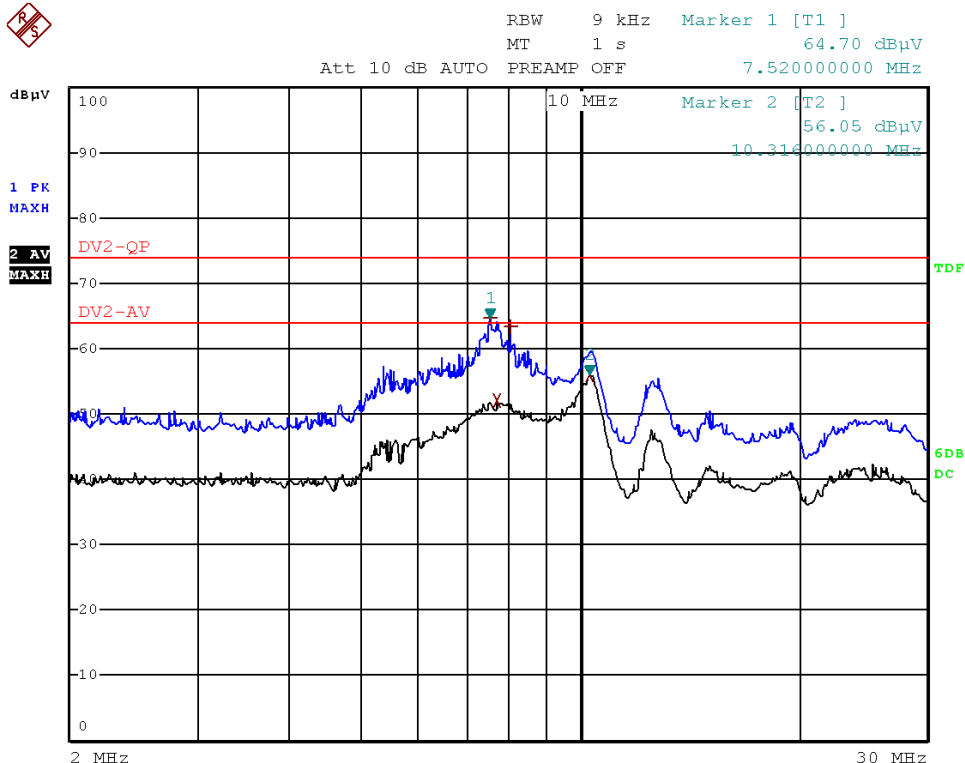
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	10.28 MHz	53.88	-10.11
2 Average	7.588 MHz	51.25	-12.74
1 Quasi Peak	7.66 MHz	57.80	-16.19
1 Quasi Peak	7.8 MHz	56.28	-17.71



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COOL-IN-S



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	10.316 MHz	55.69	-8.30
2 Average	7.692 MHz	51.34	-12.65
1 Quasi Peak	7.52 MHz	57.68	-16.31
1 Quasi Peak	8.044 MHz	56.34	-17.65



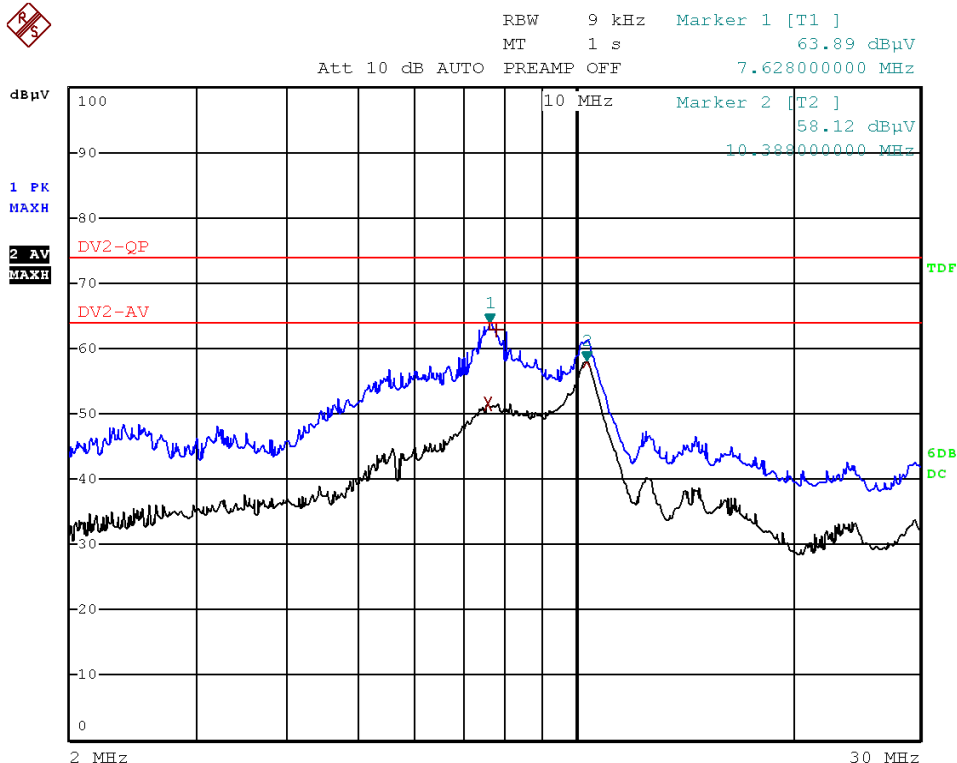
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COOL-IN-PE



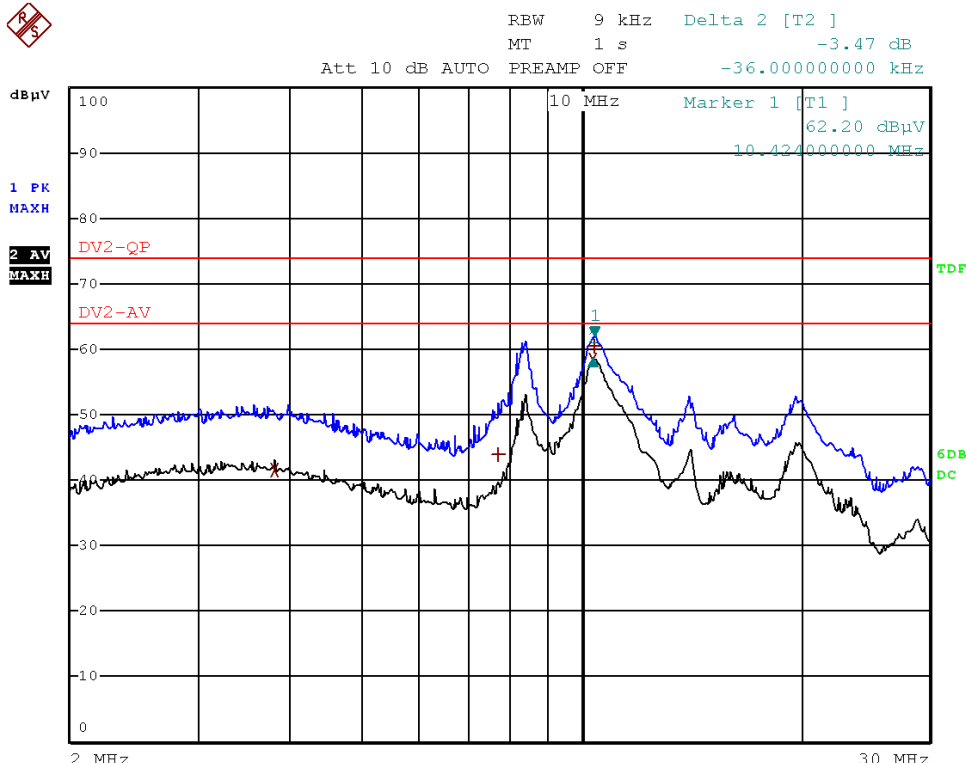
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	10.388 MHz	57.11	-6.88
2 Average	7.588 MHz	50.96	-13.03
1 Quasi Peak	7.628 MHz	57.41	-16.58
1 Quasi Peak	7.764 MHz	56.81	-17.19



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COOL-OUT-W



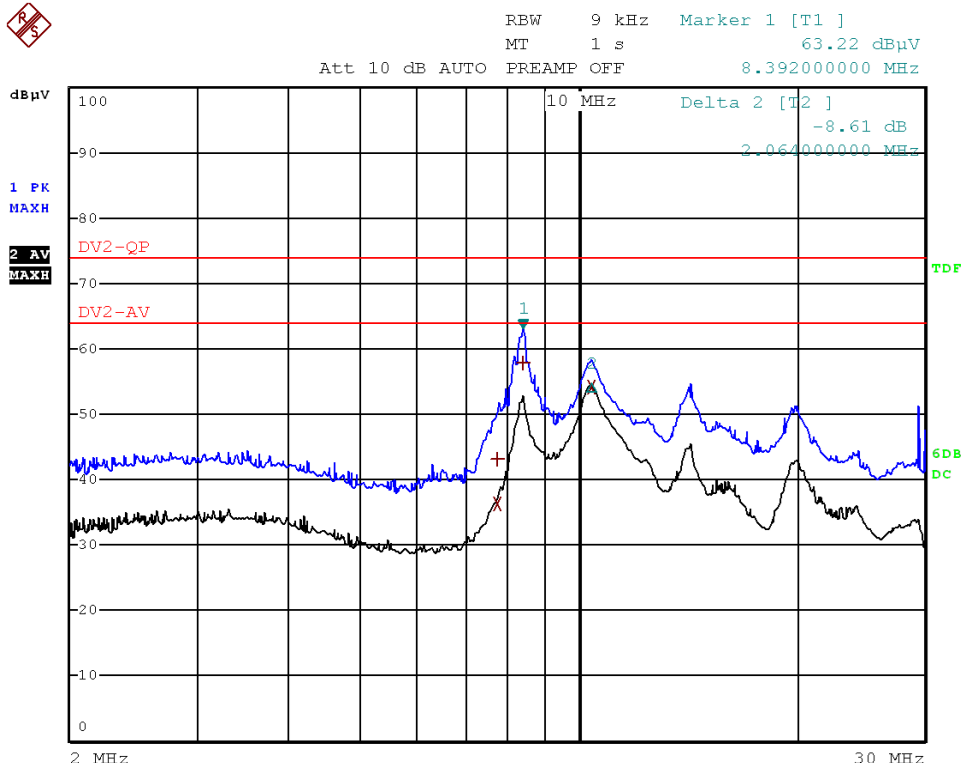
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	10.388 MHz	58.48	-5.51
1 Quasi Peak	10.424 MHz	60.43	-13.57
2 Average	3.808 MHz	41.64	-22.35
1 Quasi Peak	7.72 MHz	43.84	-30.15



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COOL-OUT-1L



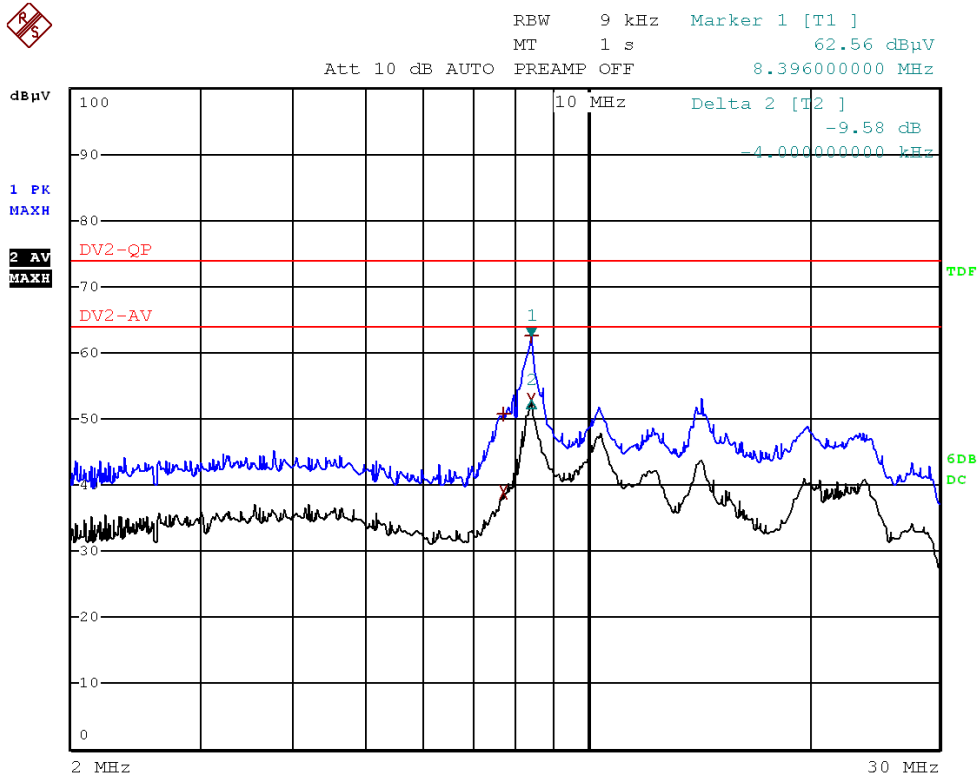
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	10.456 MHz	54.14	-9.85
1 Quasi Peak	8.392 MHz	57.93	-16.06
2 Average	7.728 MHz	36.42	-27.57
1 Quasi Peak	7.728 MHz	43.16	-30.83



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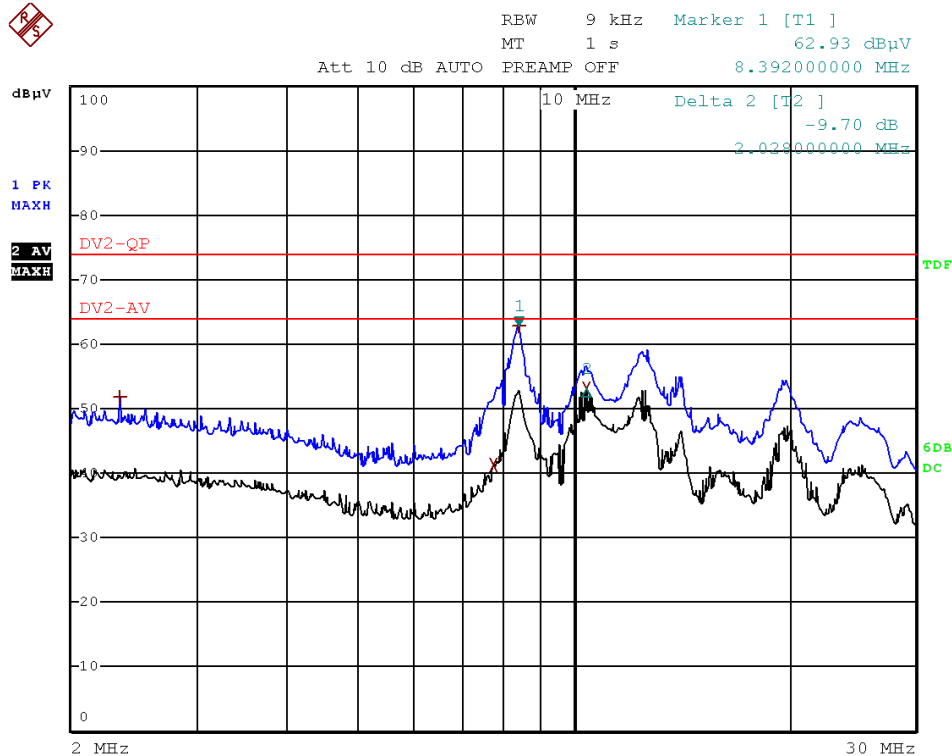
COOL-OUT-2N



TRACE		FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2	Average	8.392 MHz	52.59	-11.40
1	Quasi Peak	8.396 MHz	56.80	-17.19
2	Average	7.692 MHz	38.09	-25.90
1	Quasi Peak	7.692 MHz	45.01	-28.98



COOL-OUT-S



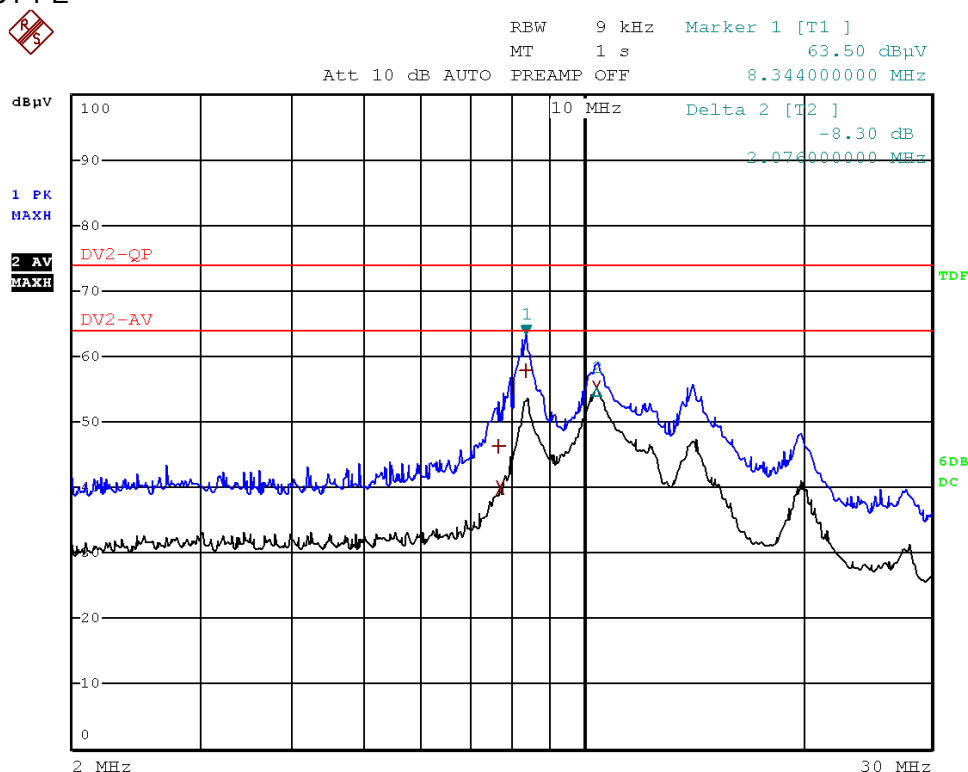
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	10.42 MHz	51.26	-12.73
1 Quasi Peak	8.392 MHz	59.00	-14.99
2 Average	7.728 MHz	40.19	-23.80
1 Quasi Peak	2.336 MHz	44.23	-29.76



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COOL-OUT-PE



	TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2	Average	10.42 MHz	55.27	-8.72
1	Quasi Peak	8.344 MHz	57.96	-16.04
2	Average	7.692 MHz	40.13	-23.87
1	Quasi Peak	7.656 MHz	46.41	-27.58



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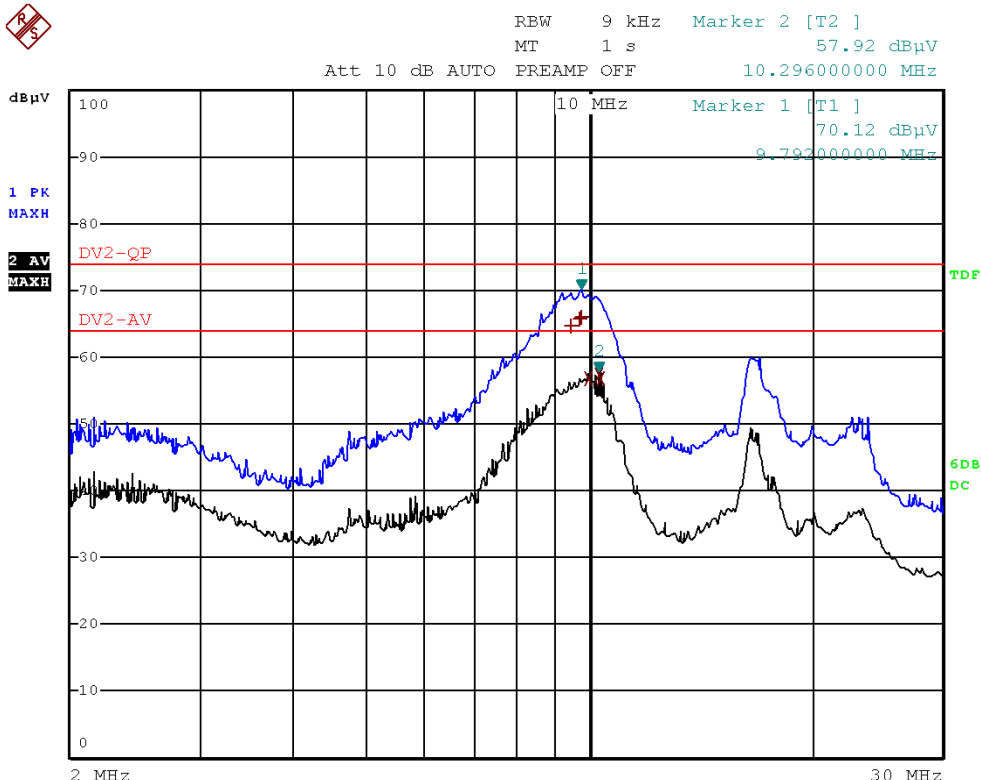
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 网址: www.sgs.com

Member of the SGS Group (SGS SA)

For Model C
COOL-IN-1L



TRACE	FREQUENCY	LEVEL dBuV	DELTA LIMIT dB
2 Average	10.296 MHz	57.29	-6.70
2 Average	10.396 MHz	56.89	-7.10
2 Average	9.996 MHz	56.86	-7.13
1 Quasi Peak	9.792 MHz	65.91	-8.08
1 Quasi Peak	9.716 MHz	65.83	-8.16
1 Quasi Peak	9.48 MHz	64.68	-9.31



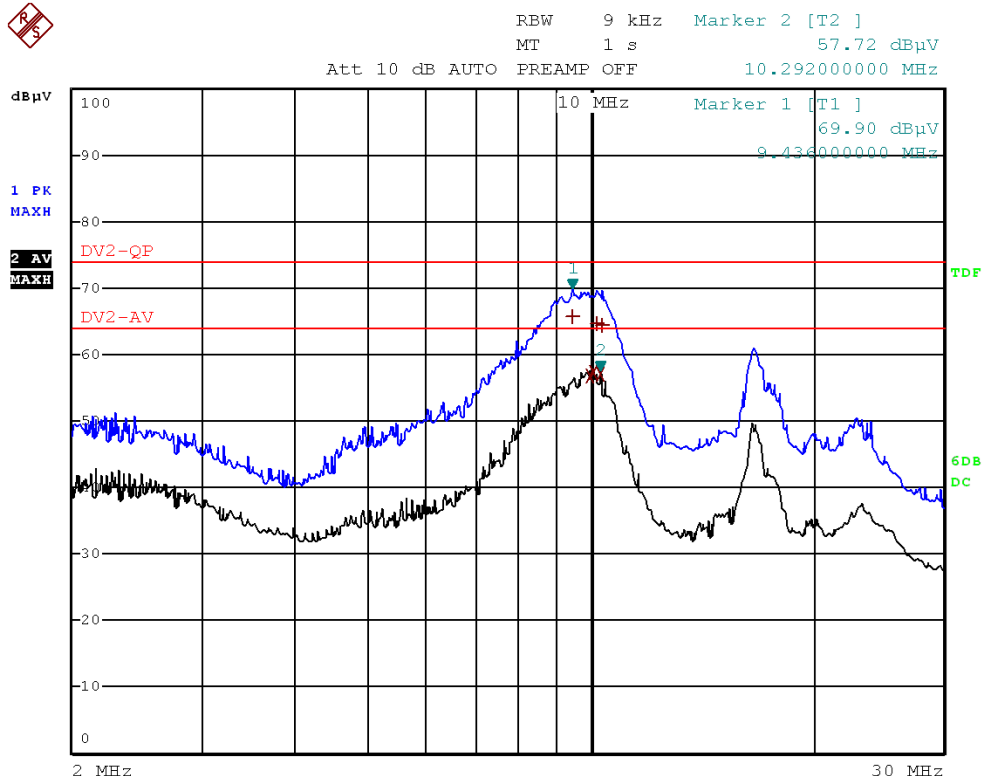
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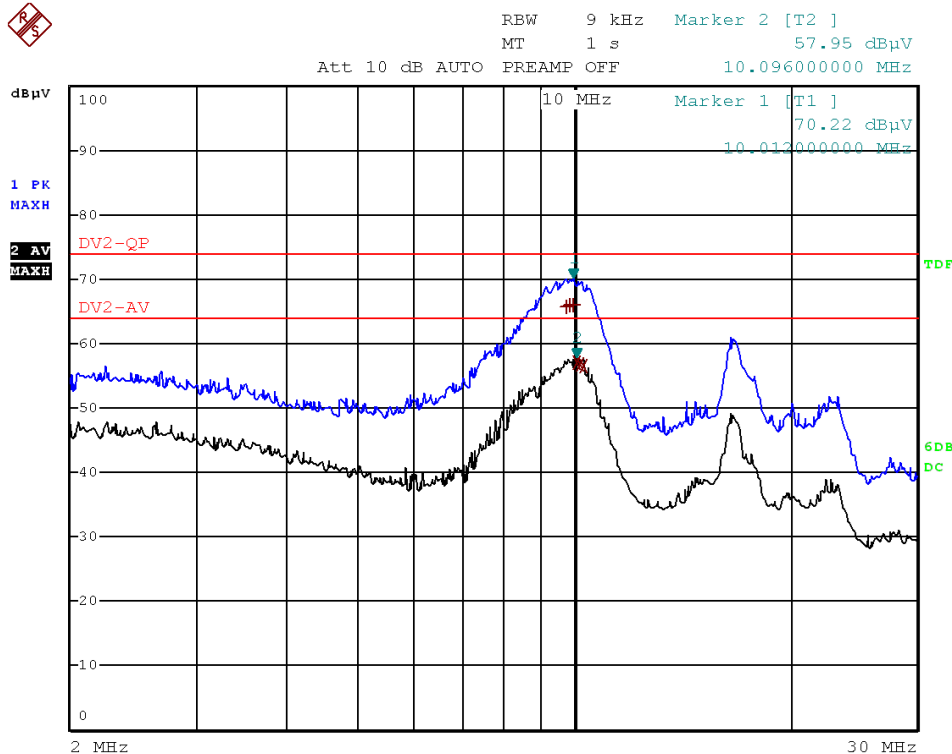
COOL-IN-2N



TRACE		FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2	Average	10.096 MHz	57.28	-6.71
2	Average	10.292 MHz	56.99	-7.00
2	Average	9.996 MHz	56.84	-7.15
1	Quasi Peak	9.436 MHz	65.77	-8.22
1	Quasi Peak	10.188 MHz	64.70	-9.29
1	Quasi Peak	10.352 MHz	64.44	-9.55



COOL-IN-S



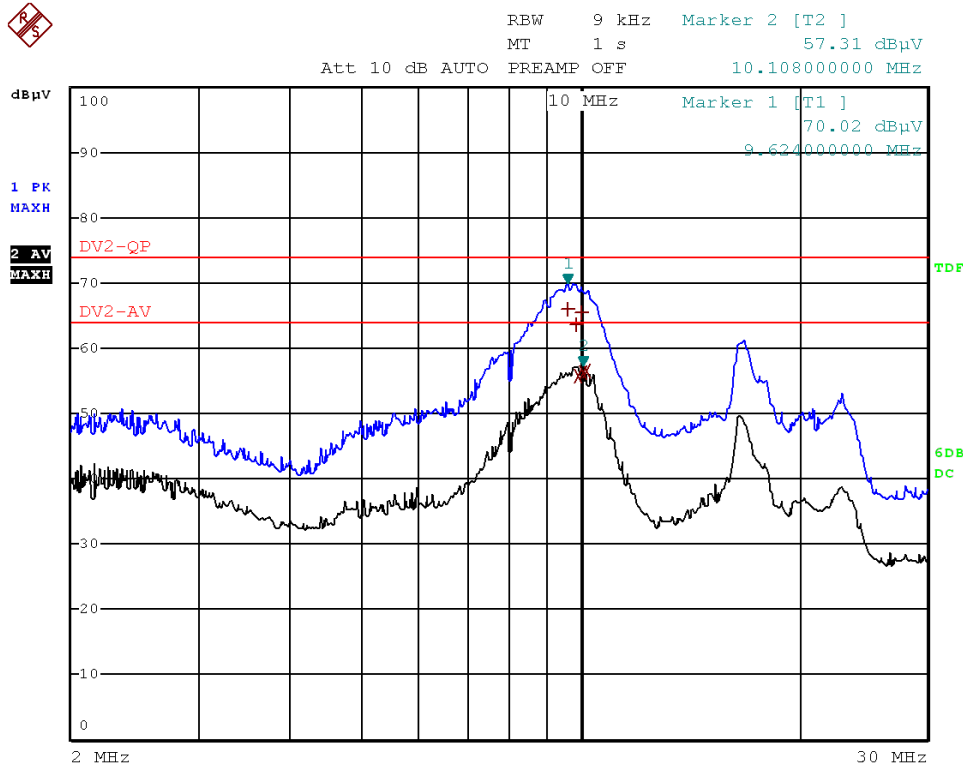
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	10.096 MHz	57.21	-6.78
2 Average	10.196 MHz	56.91	-7.08
2 Average	10.296 MHz	56.66	-7.34
1 Quasi Peak	9.868 MHz	66.06	-7.93
1 Quasi Peak	10.012 MHz	66.04	-7.95
1 Quasi Peak	9.768 MHz	65.85	-8.14



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COOL-IN-W



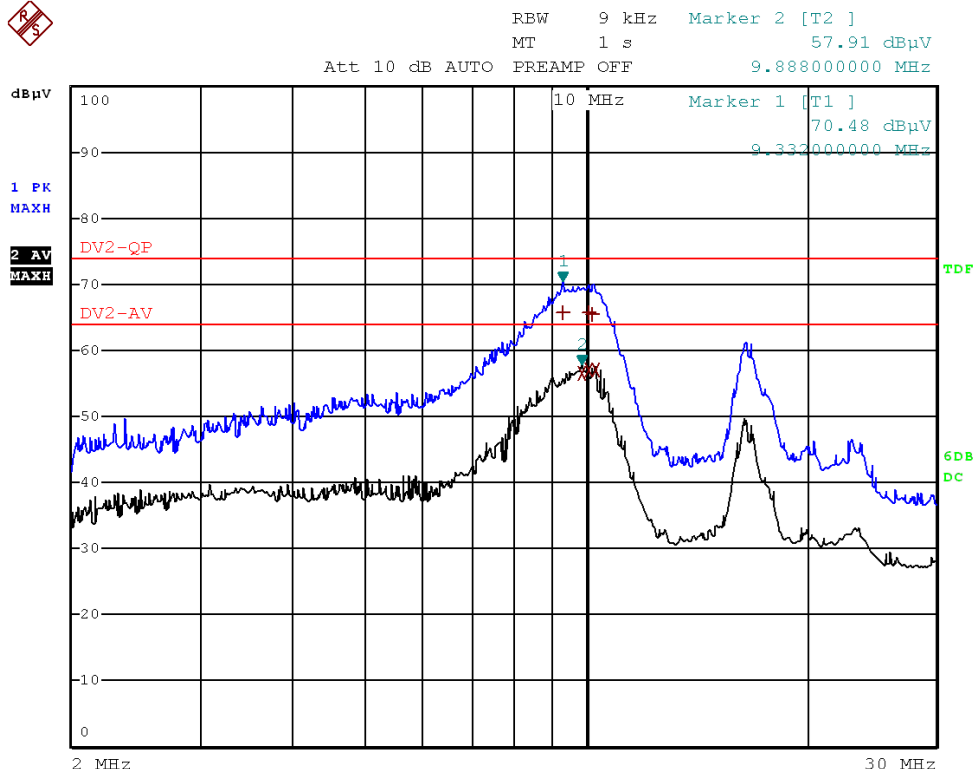
	TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2	Average	10.204 MHz	56.53	-7.46
2	Average	10.108 MHz	56.37	-7.62
1	Quasi Peak	9.624 MHz	65.99	-8.00
2	Average	9.944 MHz	55.85	-8.14
1	Quasi Peak	10.044 MHz	65.59	-8.40
1	Quasi Peak	9.856 MHz	63.66	-10.34



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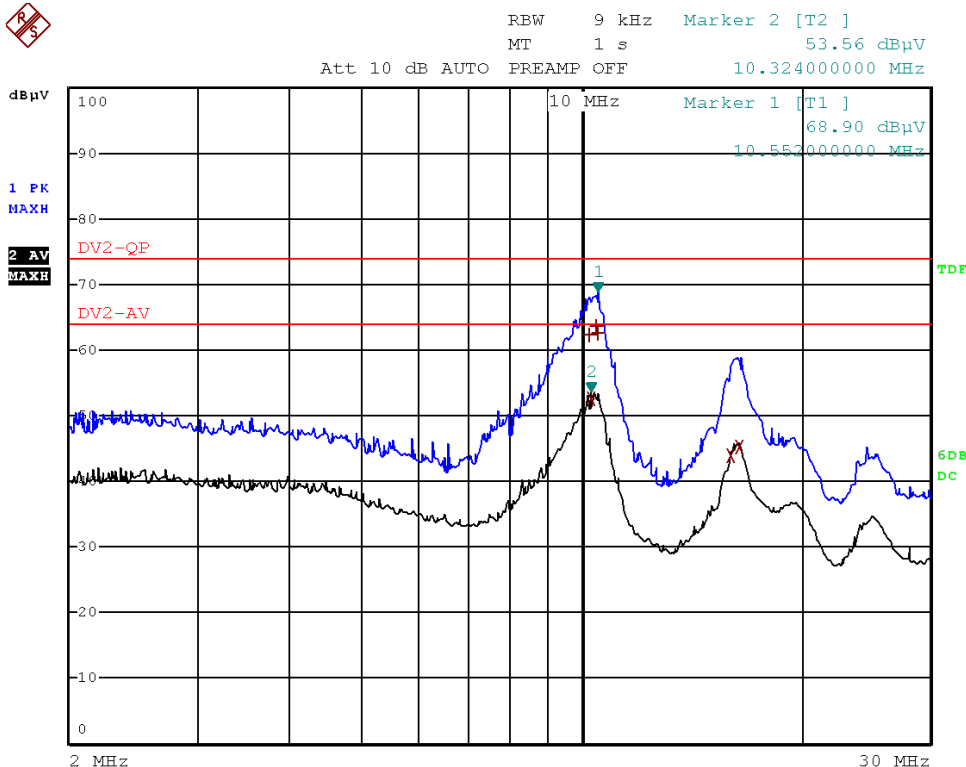
COOL-IN-PE



TRACE		FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2	Average	10.292 MHz	57.18	-6.81
2	Average	10.092 MHz	57.07	-6.93
2	Average	9.888 MHz	56.58	-7.41
1	Quasi Peak	9.332 MHz	65.82	-8.17
1	Quasi Peak	10.088 MHz	65.64	-8.35
1	Quasi Peak	10.208 MHz	65.60	-8.39



COOL-OUT-1L



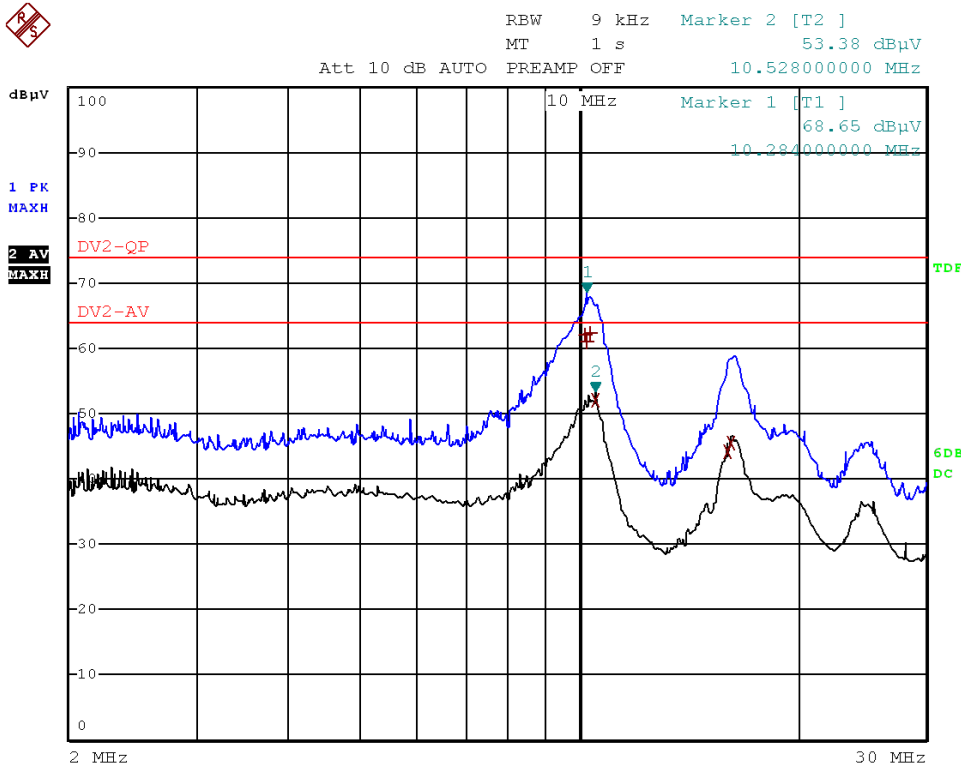
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	10.488 MHz	63.61	-10.39
2 Average	10.324 MHz	52.62	-11.37
1 Quasi Peak	10.552 MHz	62.55	-11.44
1 Quasi Peak	10.248 MHz	62.27	-11.72
2 Average	16.404 MHz	45.21	-18.79
2 Average	15.988 MHz	43.87	-20.12



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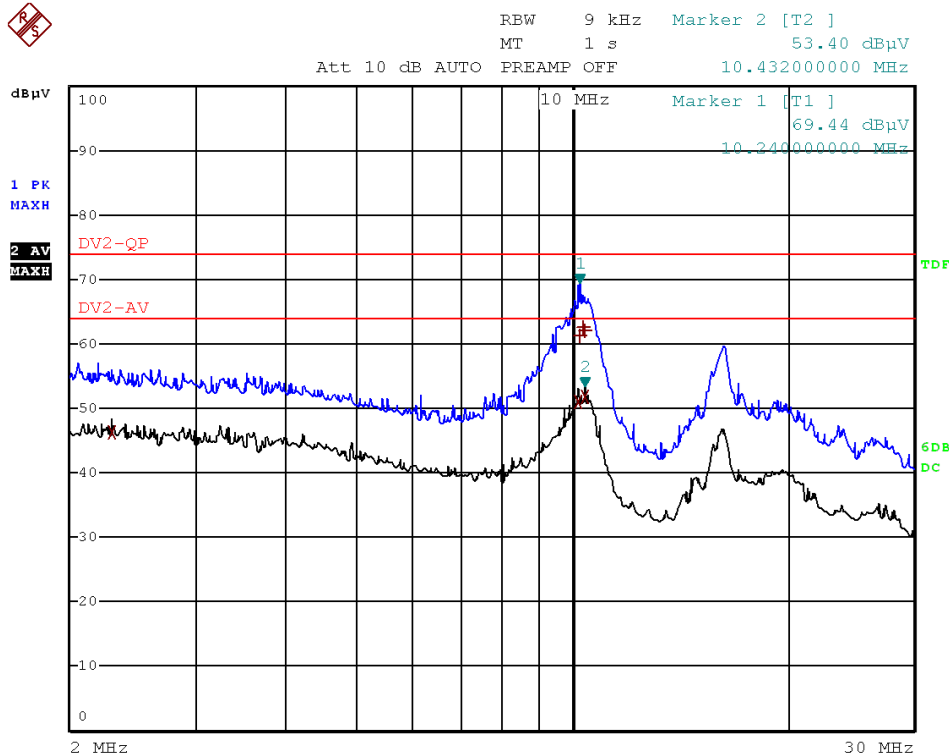
COOL-OUT-2N



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	10.384 MHz	62.43	-11.56
2 Average	10.528 MHz	52.20	-11.79
1 Quasi Peak	10.202 MHz	62.14	-11.85
1 Quasi Peak	10.284 MHz	61.11	-12.88
2 Average	16.192 MHz	45.48	-18.51
2 Average	19.988 MHz	44.26	-19.73



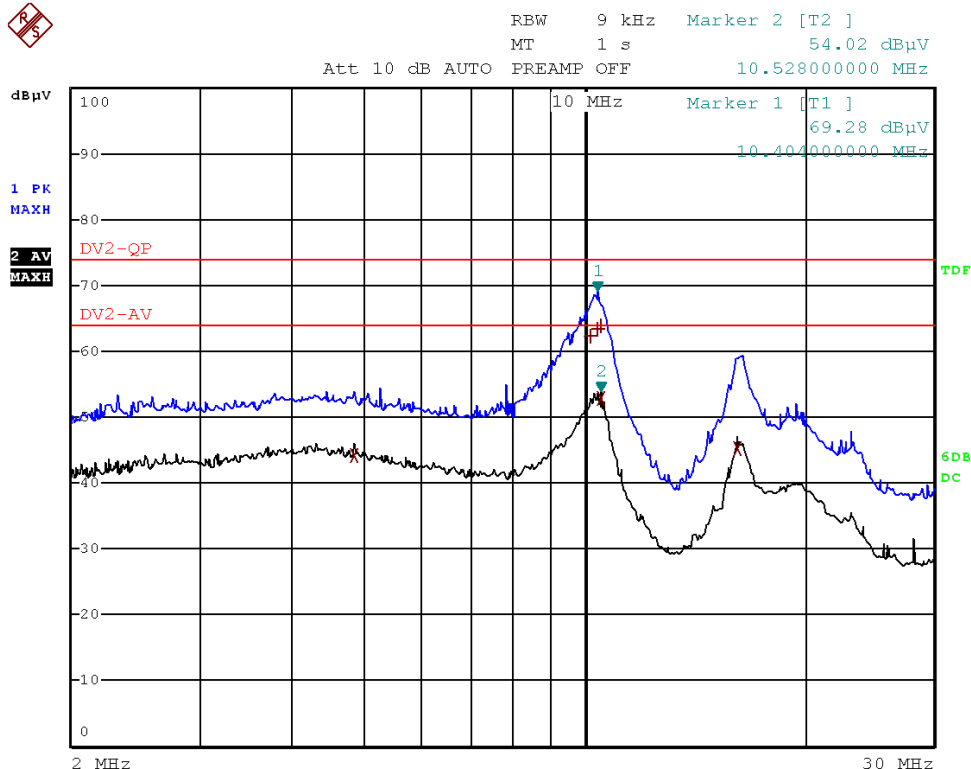
COOL-OUT-S



TRACE	FREQUENCY	LEVEL dBuV	DELTA LIMIT dB
1 Quasi Peak	10.376 MHz	62.46	-11.53
1 Quasi Peak	10.436 MHz	61.95	-12.04
2 Average	10.432 MHz	51.83	-12.16
1 Quasi Peak	10.24 MHz	61.36	-12.63
2 Average	10.232 MHz	50.99	-13.00
2 Average	2.28 MHz	46.24	-17.75



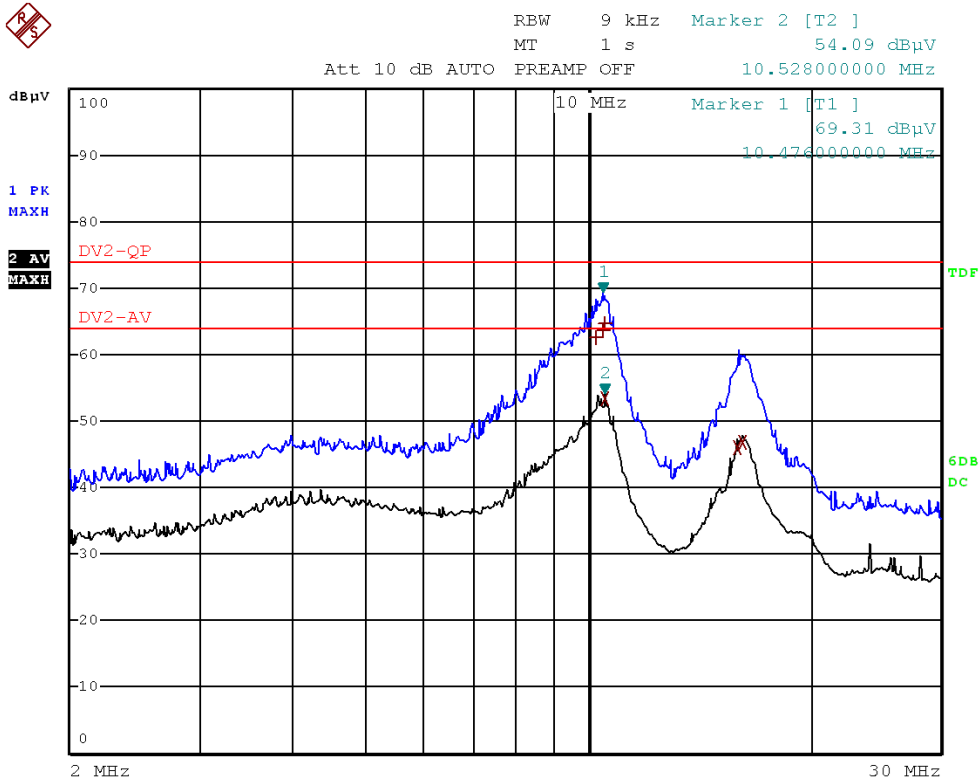
COOL-OUT-W



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	10.528 MHz	63.92	-10.07
1 Quasi Peak	10.404 MHz	63.30	-10.69
2 Average	10.528 MHz	52.77	-11.22
1 Quasi Peak	10.24 MHz	62.25	-11.74
2 Average	16.188 MHz	45.15	-18.84
2 Average	4.848 MHz	44.12	-19.87



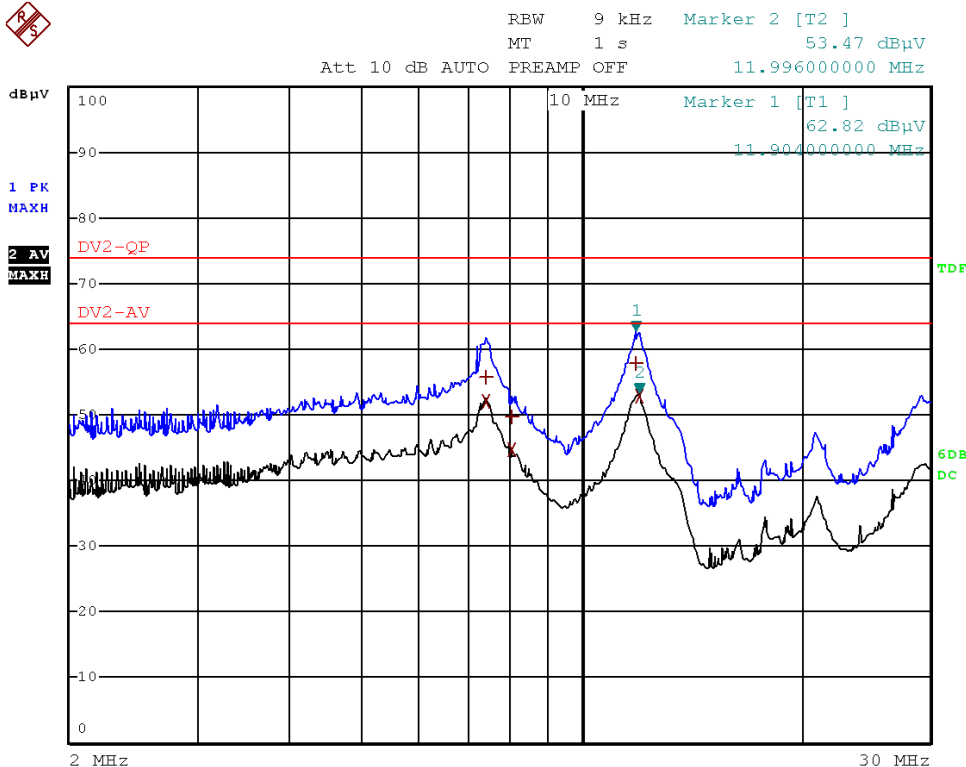
COOL-OUT-PE



TRACE		FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1	Quasi Peak	10.528 MHz	64.65	-9.34
1	Quasi Peak	10.476 MHz	63.71	-10.28
2	Average	10.528 MHz	53.37	-10.62
1	Quasi Peak	10.272 MHz	62.62	-11.37
2	Average	16.192 MHz	46.85	-17.14
2	Average	15.884 MHz	46.18	-17.82



For Model D
COOL-IN-1L



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	11.996 MHz	52.88	-11.11
2 Average	7.412 MHz	52.09	-11.90
1 Quasi Peak	11.904 MHz	57.94	-16.05
1 Quasi Peak	7.428 MHz	55.70	-18.29
2 Average	8.024 MHz	44.76	-19.23
1 Quasi Peak	8.024 MHz	49.68	-24.31



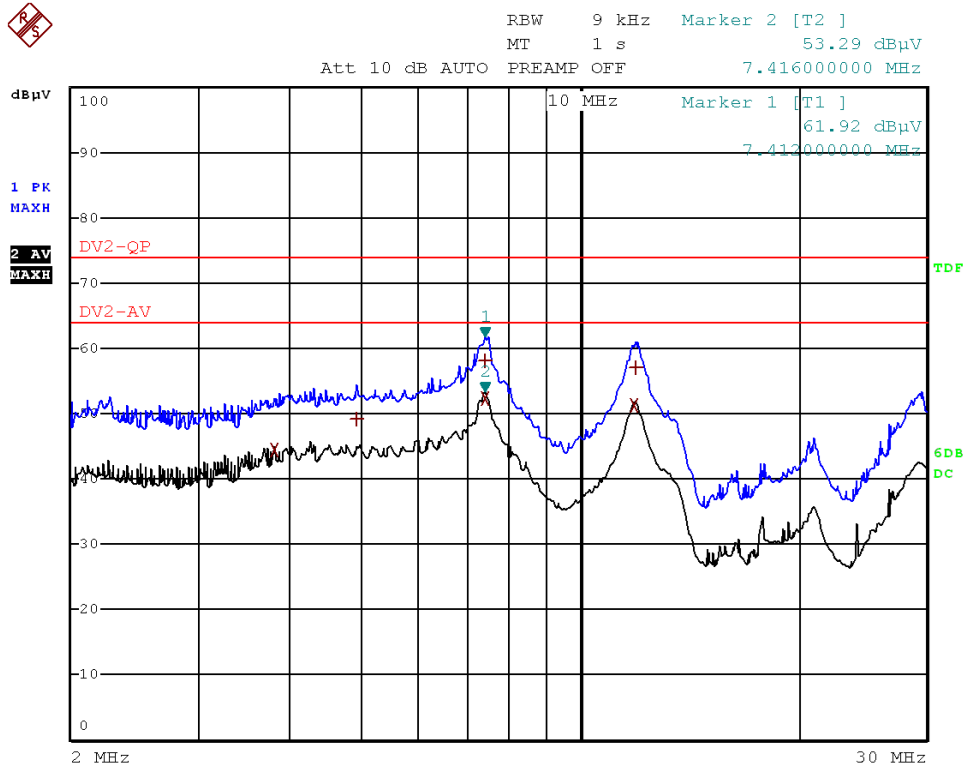
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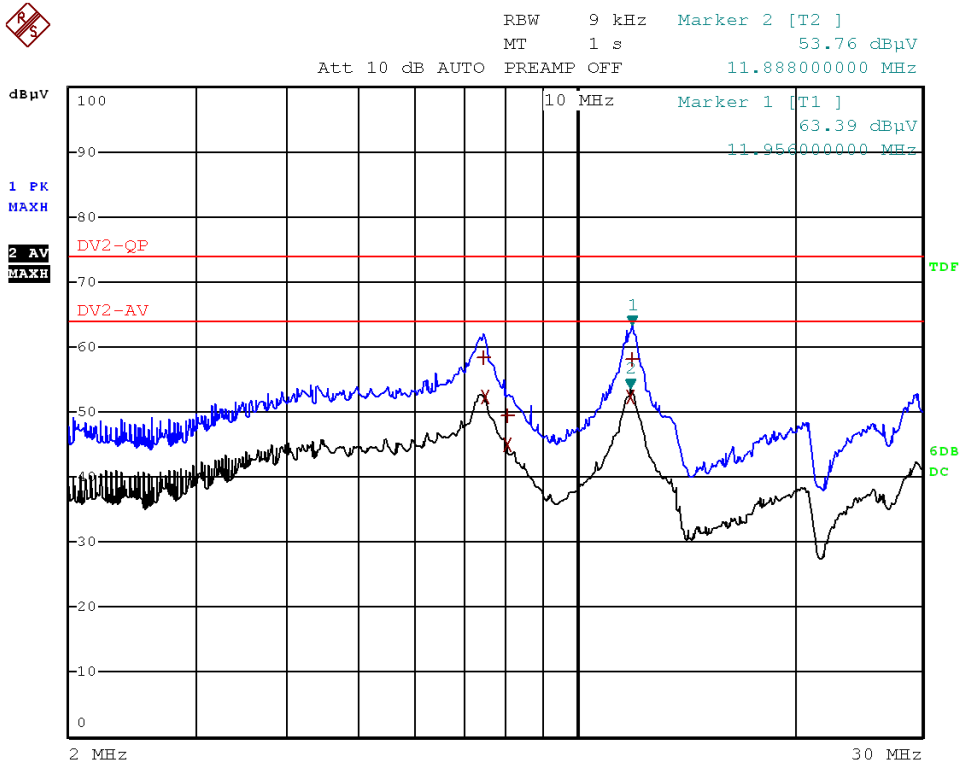
COOL-IN-2N



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	7.416 MHz	52.49	-11.50
2 Average	11.888 MHz	51.27	-12.72
1 Quasi Peak	7.412 MHz	58.07	-15.92
1 Quasi Peak	11.928 MHz	57.02	-16.97
2 Average	3.796 MHz	44.47	-19.52
1 Quasi Peak	4.932 MHz	49.28	-24.71



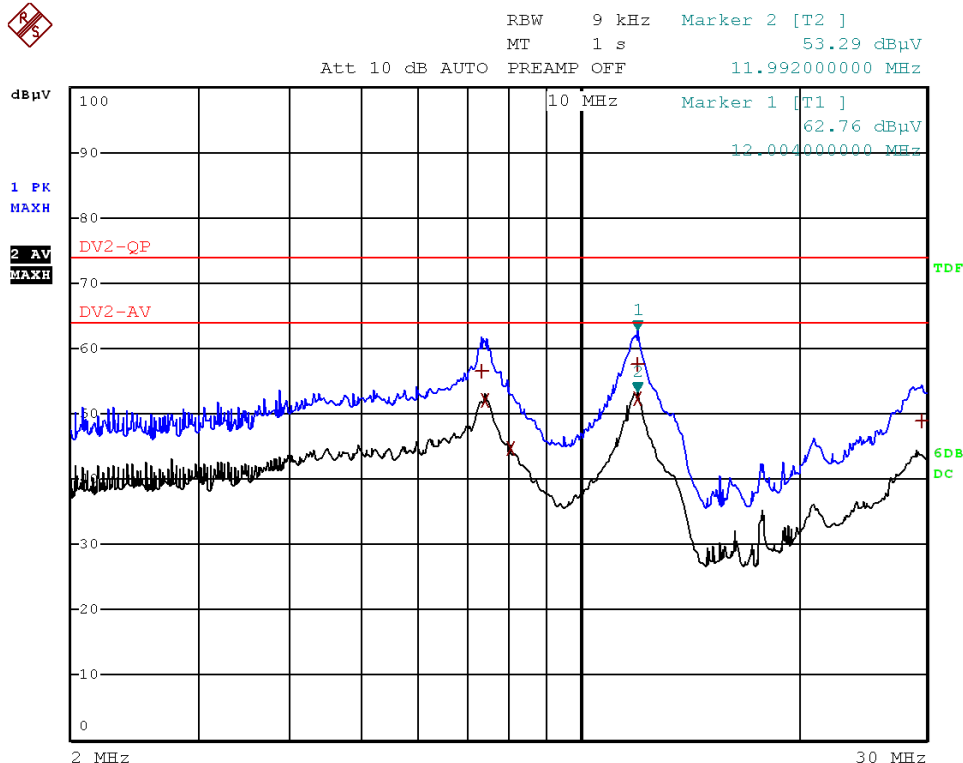
COOL-IN-S



	TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2	Average	7.484 MHz	52.42	-11.57
2	Average	11.888 MHz	52.36	-11.63
1	Quasi Peak	7.448 MHz	58.39	-15.60
1	Quasi Peak	11.956 MHz	58.14	-15.85
2	Average	8.024 MHz	45.03	-18.96
1	Quasi Peak	8.028 MHz	49.40	-24.59



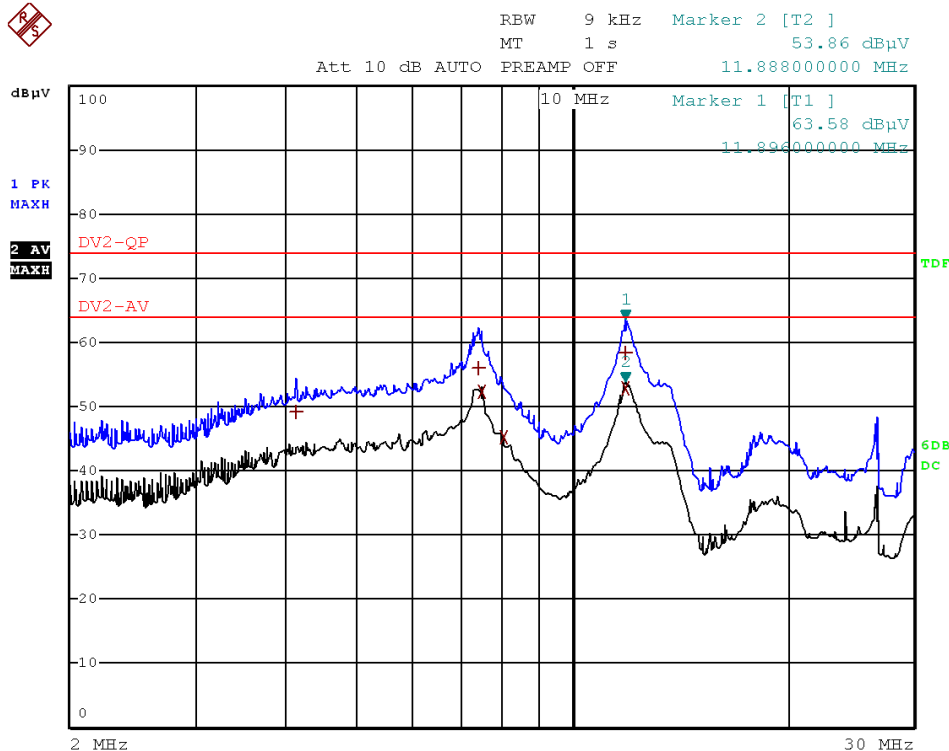
COOL-IN-W



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	11.992 MHz	52.43	-11.56
2 Average	7.416 MHz	52.13	-11.86
1 Quasi Peak	12.004 MHz	57.69	-16.31
1 Quasi Peak	7.34 MHz	56.54	-17.45
2 Average	8.024 MHz	44.66	-19.33
1 Quasi Peak	29.552 MHz	48.83	-25.16



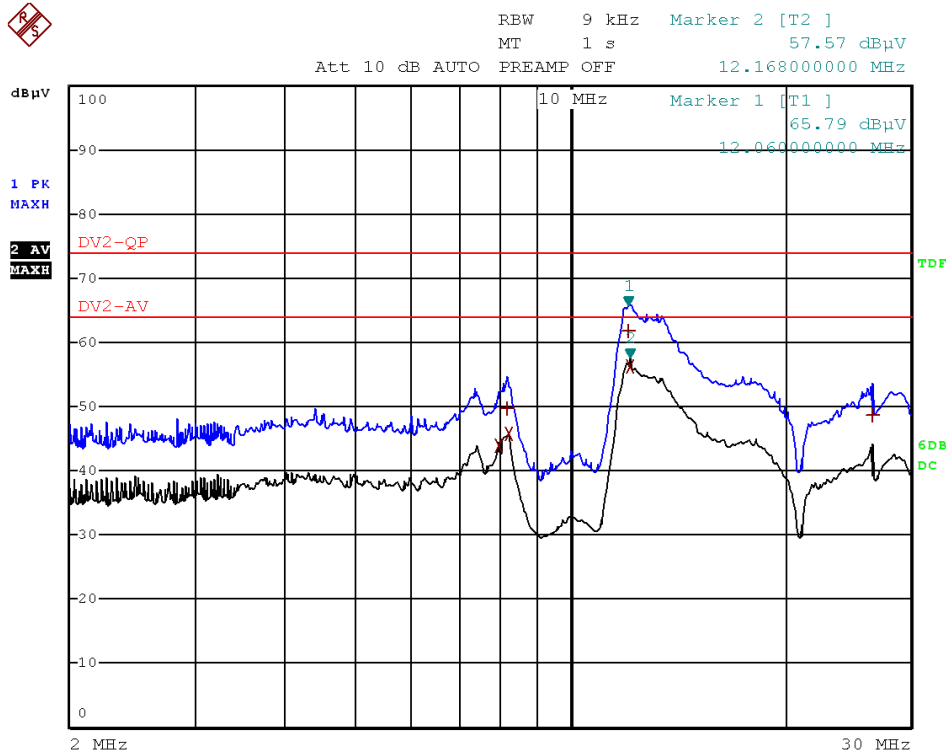
COOL-IN-PE



TRACE	FREQUENCY	LEVEL dBuV	DELTA LIMIT dB
2 Average	11.888 MHz	52.99	-11.00
2 Average	7.484 MHz	52.38	-11.61
1 Quasi Peak	11.896 MHz	58.47	-15.52
1 Quasi Peak	7.424 MHz	56.06	-17.93
2 Average	8.024 MHz	45.34	-18.65
1 Quasi Peak	4.12 MHz	49.32	-24.67



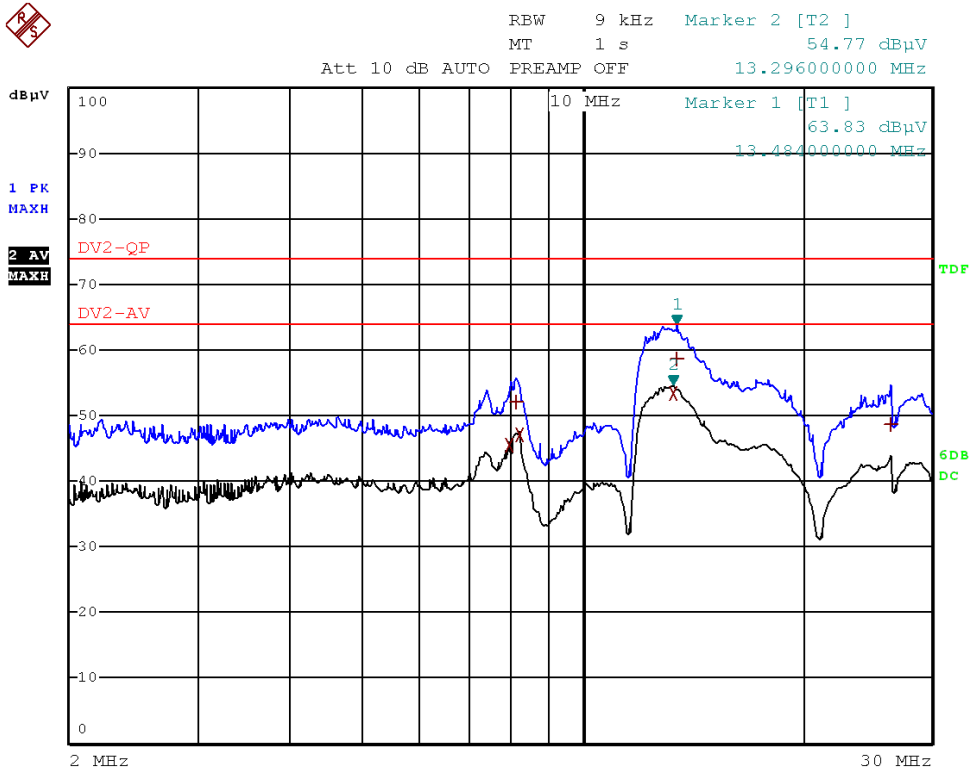
COOL-OUT-1L



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	12.168 MHz	56.27	-7.72
1 Quasi Peak	12.06 MHz	61.88	-12.11
2 Average	8.204 MHz	45.88	-18.12
2 Average	7.984 MHz	43.90	-20.09
1 Quasi Peak	8.188 MHz	49.73	-24.26
1 Quasi Peak	26.412 MHz	48.69	-25.30



COOL-OUT-2N



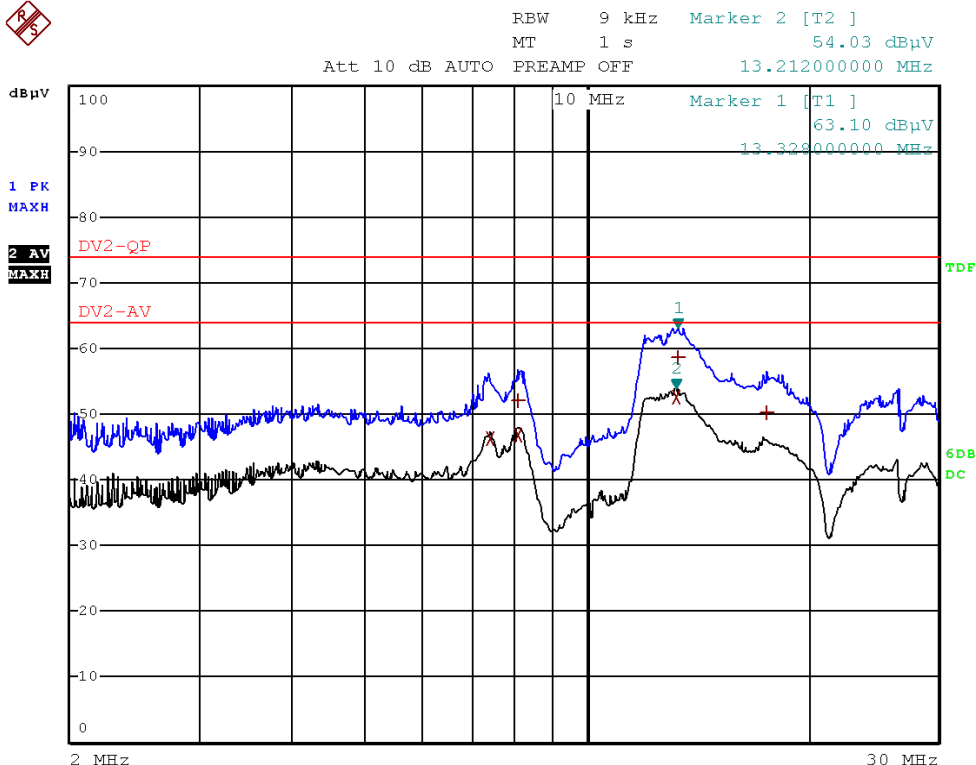
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	13.296 MHz	53.37	-10.62
1 Quasi Peak	13.484 MHz	58.62	-15.38
2 Average	8.204 MHz	47.06	-16.93
2 Average	7.984 MHz	45.53	-18.46
1 Quasi Peak	8.128 MHz	52.07	-21.92
1 Quasi Peak	26.392 MHz	48.78	-25.21



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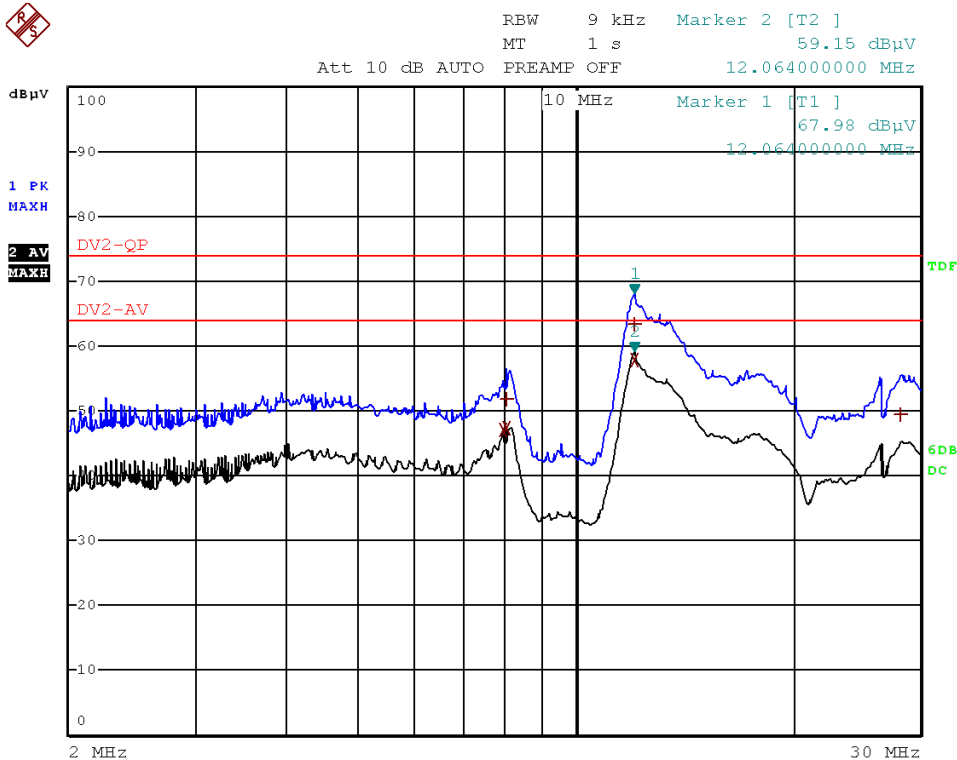
COOL-OUT-S



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	13.212 MHz	52.57	-11.42
1 Quasi Peak	13.328 MHz	58.58	-15.41
2 Average	8.096 MHz	46.94	-17.05
2 Average	7.416 MHz	46.27	-17.72
1 Quasi Peak	8.092 MHz	51.98	-22.01
1 Quasi Peak	17.524 MHz	50.27	-23.72



COOL-OUT-W



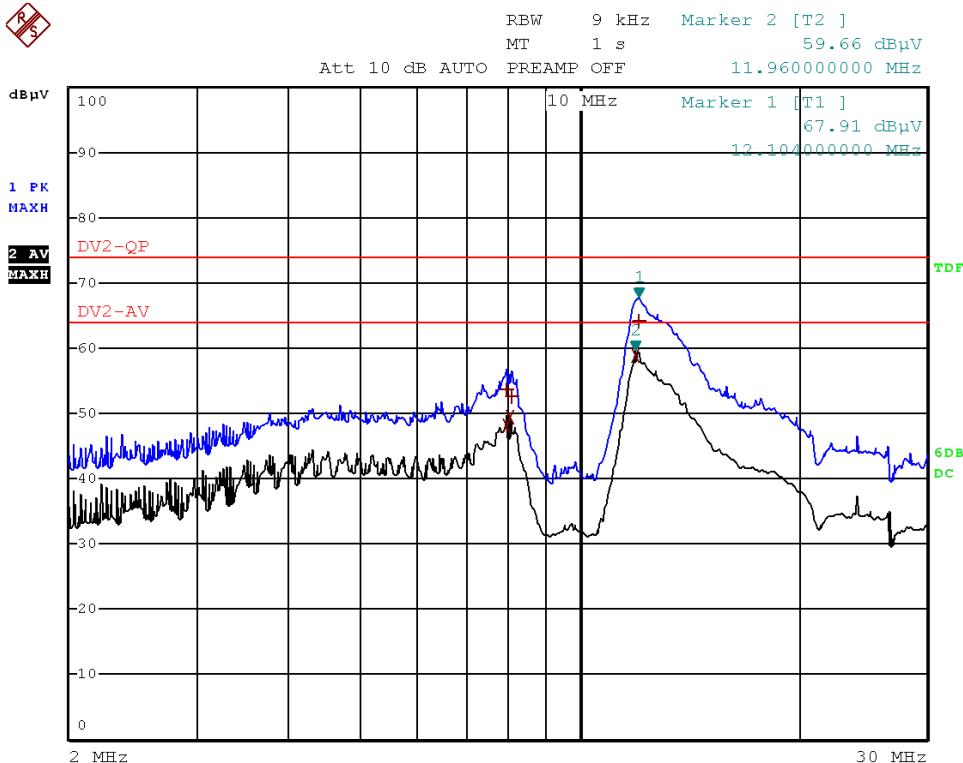
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	12.064 MHz	57.91	-6.08
1 Quasi Peak	12.064 MHz	63.36	-10.63
2 Average	8.06 MHz	47.24	-16.75
2 Average	7.988 MHz	47.11	-16.88
1 Quasi Peak	8.056 MHz	51.95	-22.04
1 Quasi Peak	28.116 MHz	49.56	-24.43



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COOL-OUT-PE



TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	11.96 MHz	58.85	-5.14
1 Quasi Peak	12.104 MHz	64.19	-9.80
2 Average	8.024 MHz	49.53	-14.47
2 Average	7.992 MHz	48.25	-15.75
1 Quasi Peak	7.984 MHz	53.68	-20.31
1 Quasi Peak	8.064 MHz	52.56	-21.43



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6.3 Disturbance Power

Test Requirement: EN 55014-1:2017+A11:2020
 Test Method: CISPR 16-2-2
 Frequency Range: 30MHz to 300MHz
 Limit:
 30MHz- 300MHz 45dB(pw)-55dB(pw) quasi-peak, 35dB(pw)-45dB(pw) average
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 300MHz

6.3.1 E.U.T. Operation

Operating Environment:

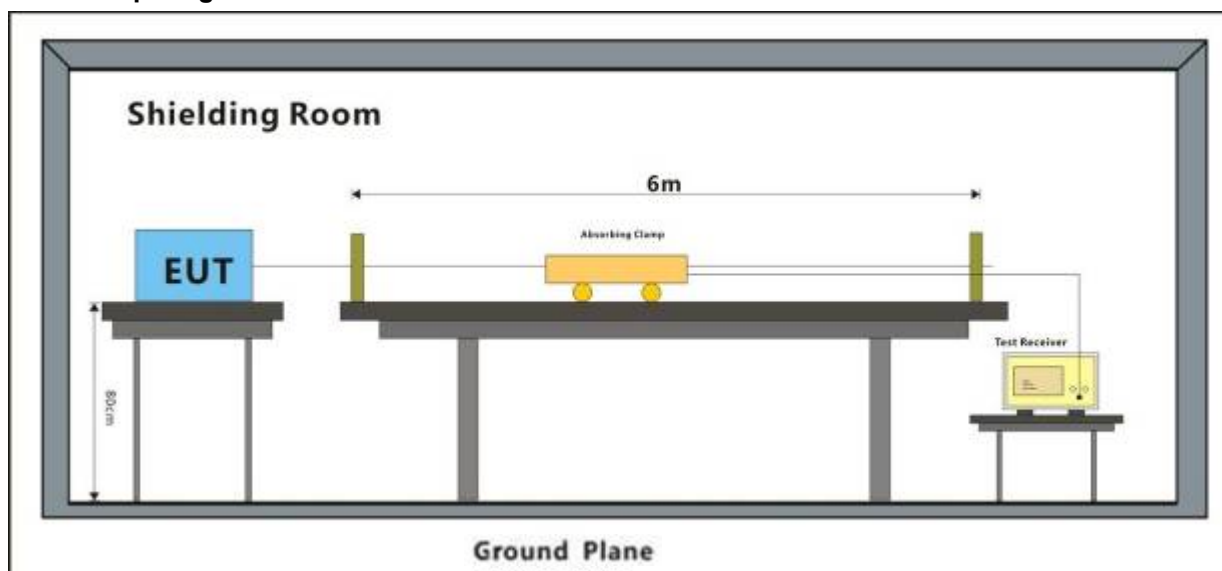
Temperature: 20 °C Humidity: 47 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

The worst case for final test: a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

6.3.2 Test Setup Diagram

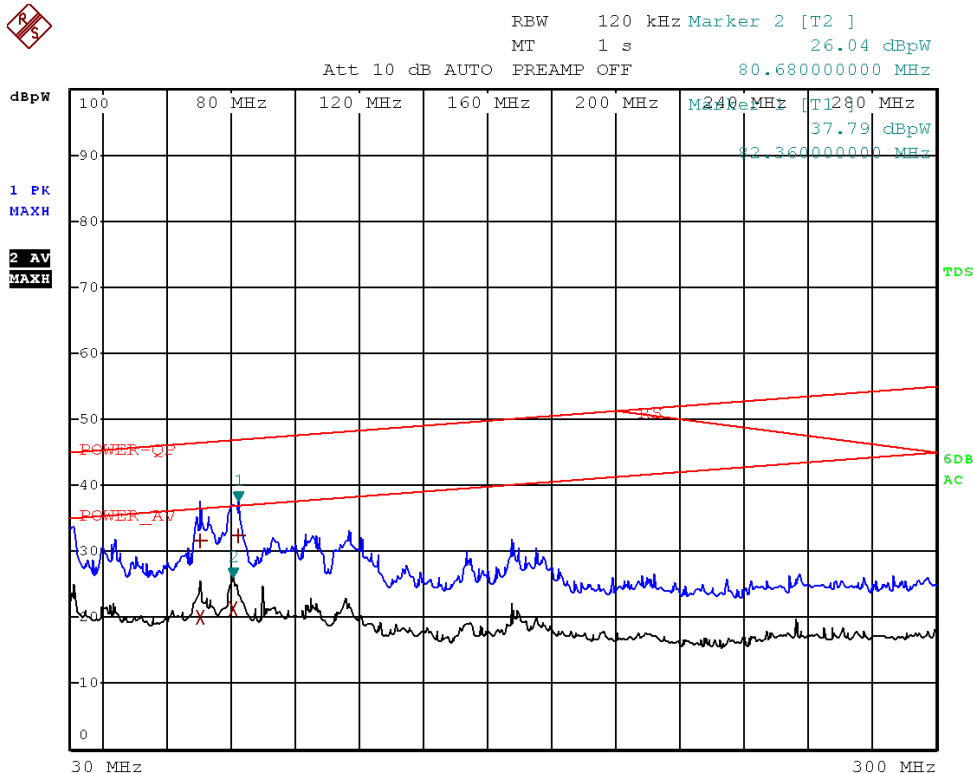


6.3.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

For Model A

COOL-POWER



TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	82.36 MHz	32.42	-14.51
1 Quasi Peak	70.68 MHz	31.53	-14.97
2 Average	80.68 MHz	21.26	-15.61
2 Average	70.68 MHz	20.17	-16.33



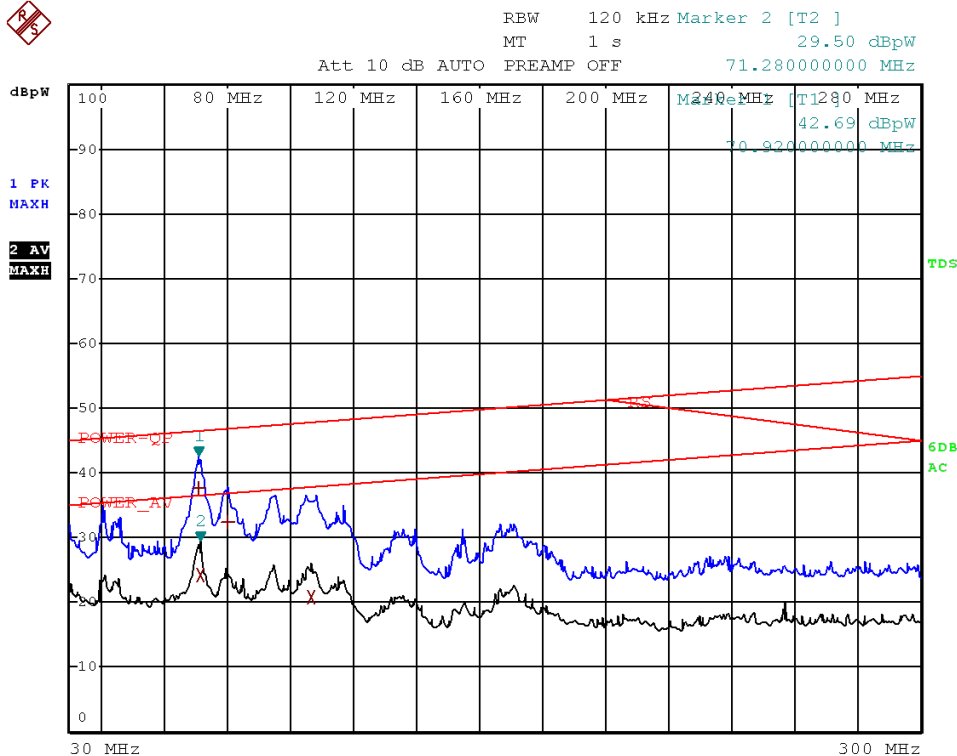
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COOL-OUT



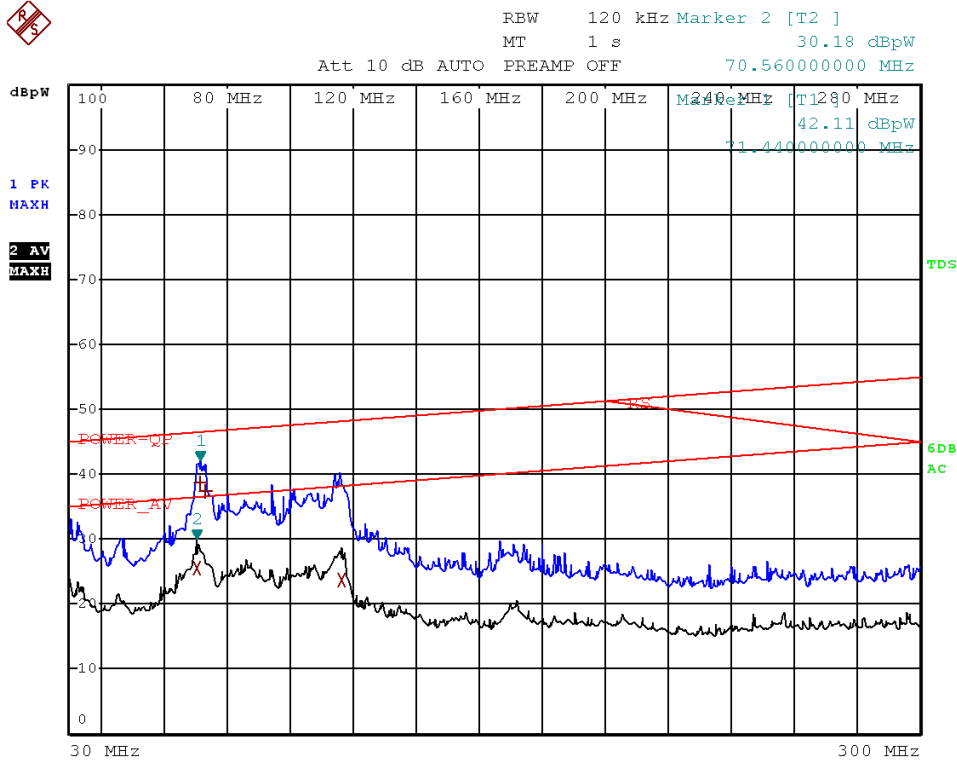
TRACK	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	70.92 MHz	37.61	-8.90
2 Average	71.28 MHz	24.37	-12.15
1 Quasi Peak	80.4 MHz	32.39	-14.47
2 Average	106.88 MHz	20.87	-16.97



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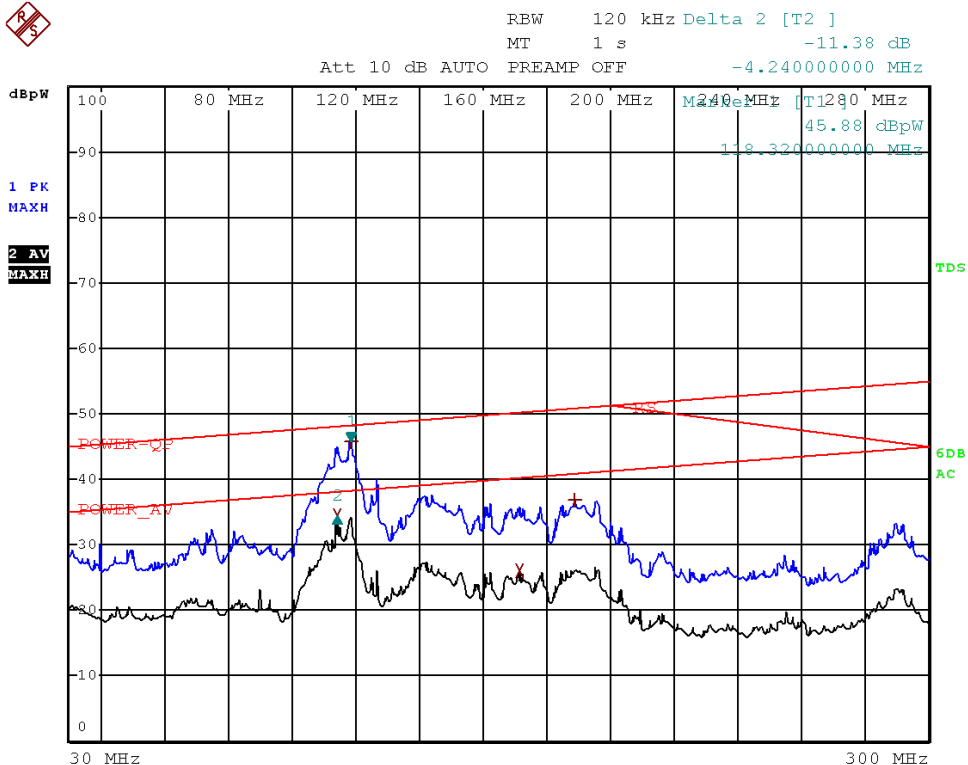
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COOL-IN



TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	71.44 MHz	38.74	-7.78
1 Quasi Peak	73.28 MHz	37.29	-9.31
2 Average	70.56 MHz	25.46	-11.03
2 Average	116.36 MHz	23.72	-14.47

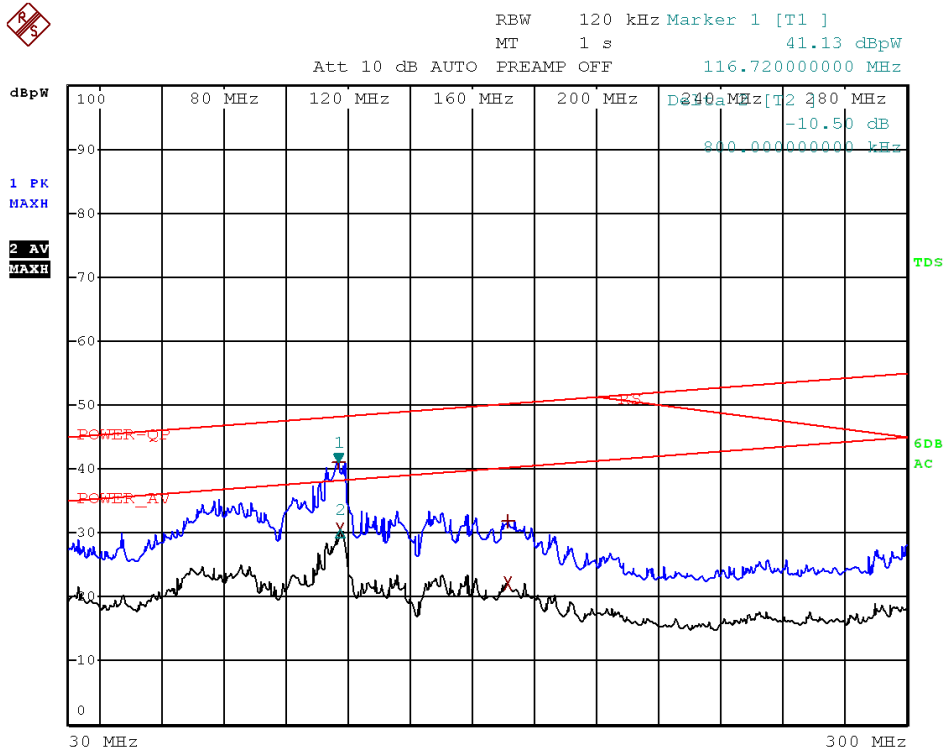


For Model B
COOL-POWER

	TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1	Quasi Peak	118.32 MHz	41.82	-6.44
2	Average	114.08 MHz	24.12	-13.99
1	Quasi Peak	188.96 MHz	33.56	-17.32
2	Average	171.24 MHz	21.54	-18.68



COOL-IN



TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	116.72 MHz	35.12	-13.08
2 Average	117.52 MHz	22.77	-15.46
2 Average	171.24 MHz	16.68	-23.54
1 Quasi Peak	171.68 MHz	26.31	-23.93



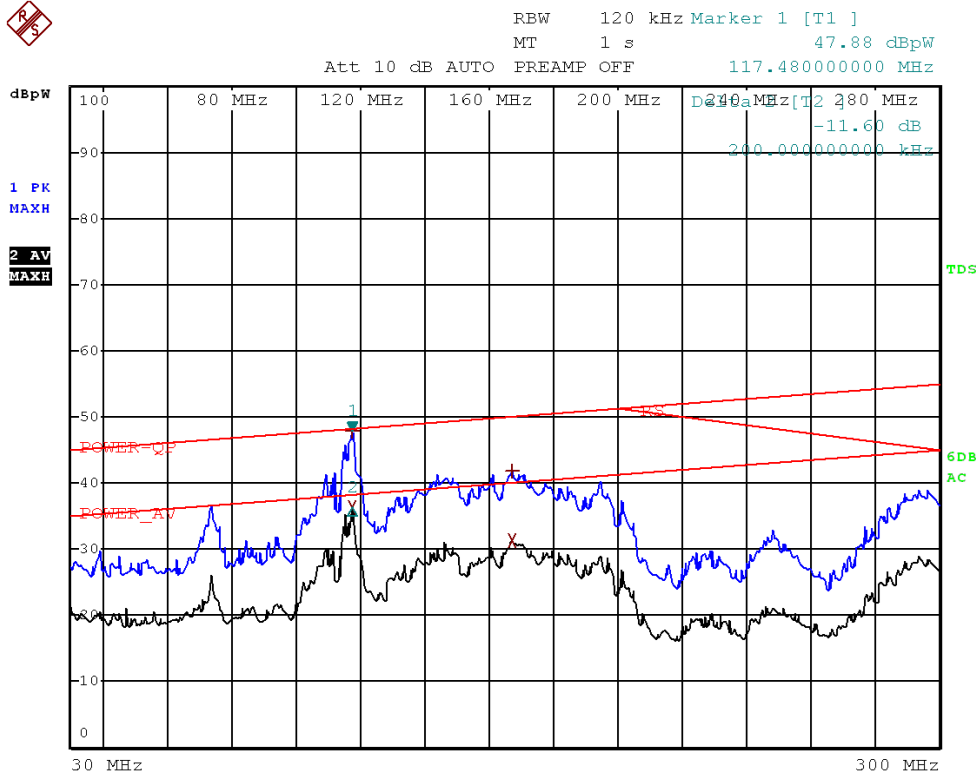
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COOL-OUT



TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1 Quasi Peak	117.48 MHz	43.11	-5.12
2 Average	117.68 MHz	31.99	-6.24
1 Quasi Peak	166.96 MHz	38.97	-11.09
2 Average	167.16 MHz	28.17	-11.90



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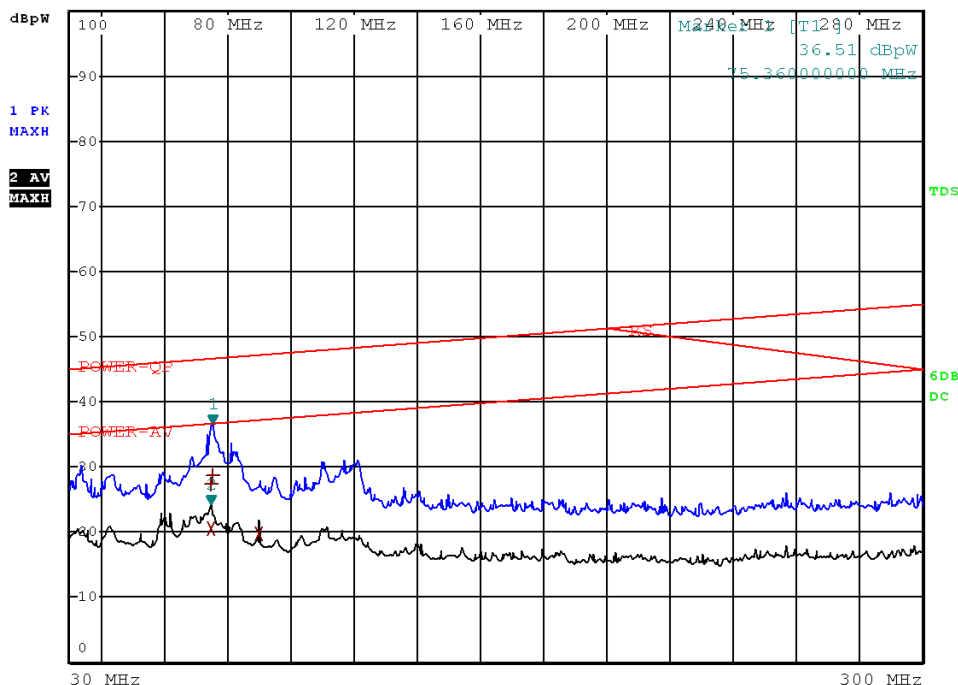
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For Model C COOL-POWER



RBW 120 kHz Marker 2 [T2]
MT 1 s 24.18 dBpW
Att 10 dB AUTO PREAMP OFF 74.72000000 MHz



TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
2 Average	74.72 MHz	20.48	-16.17
2 Average	90.08 MHz	19.75	-17.47
1 Quasi Peak	75.36 MHz	28.82	-17.85
1 Quasi Peak	74.56 MHz	27.38	-19.26



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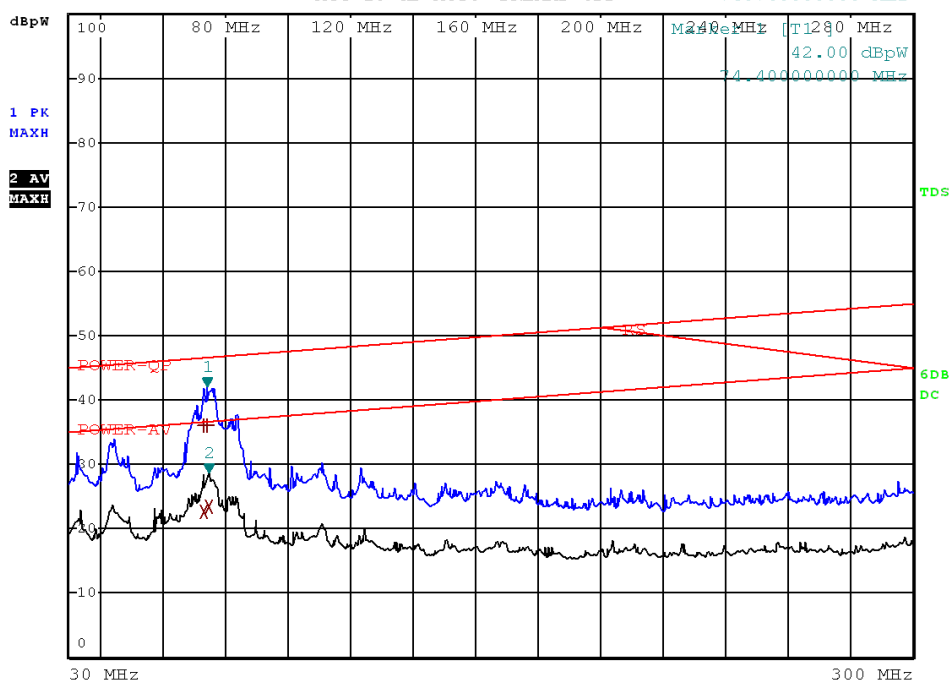
COOL-OUT



RBW 120 kHz Marker 2 [T2]

MT	1 s	28.87 dBpW
----	-----	------------

Att 10 dB AUTO PREAMP OFF 74.760000000 MHz



	TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
1	Quasi Peak	74.4 MHz	36.19	-10.44
1	Quasi Peak	73.24 MHz	36.10	-10.49
2	Average	74.76 MHz	23.48	-13.17
2	Average	73.04 MHz	22.68	-13.90



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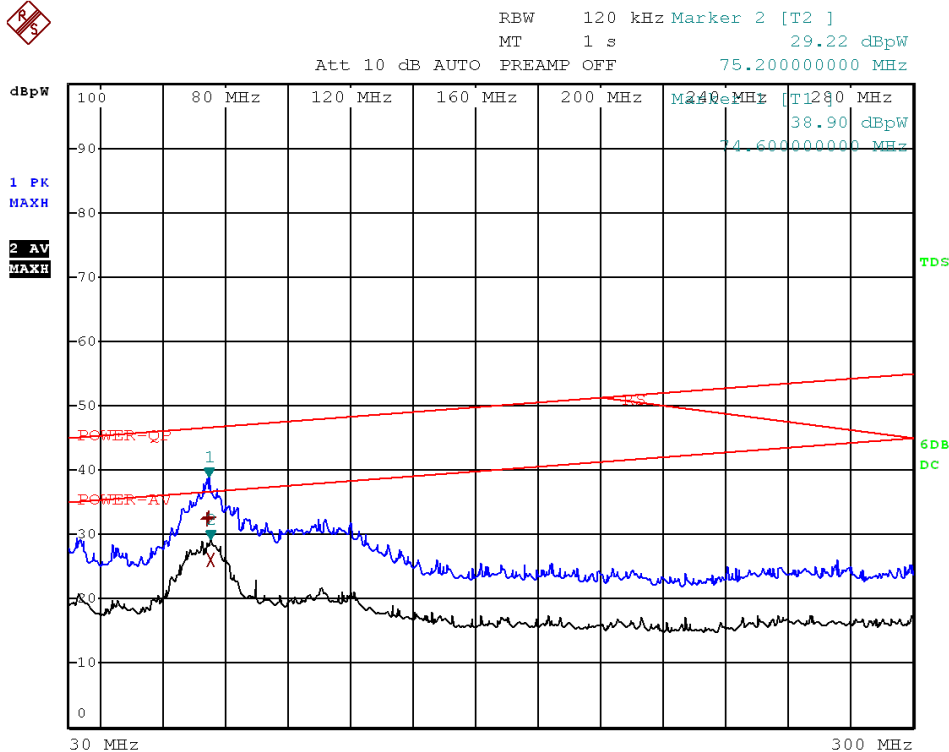
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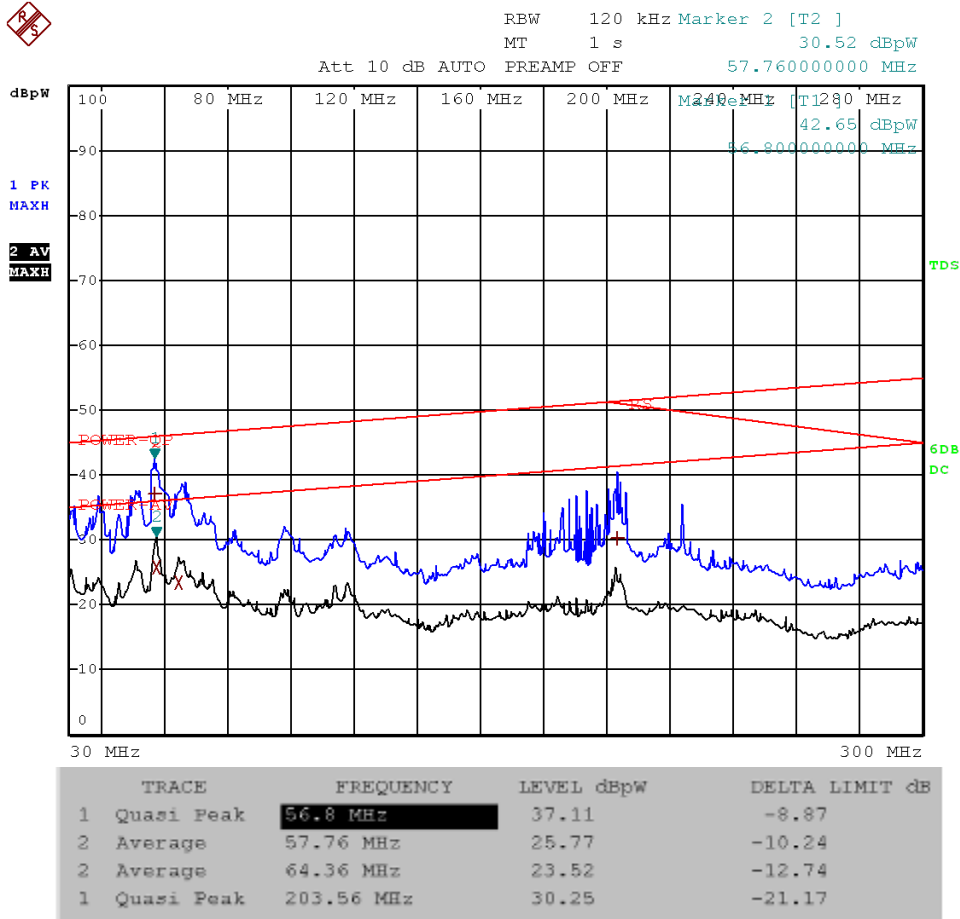
Member of the SGS Group (SGS SA)

COOL-IN

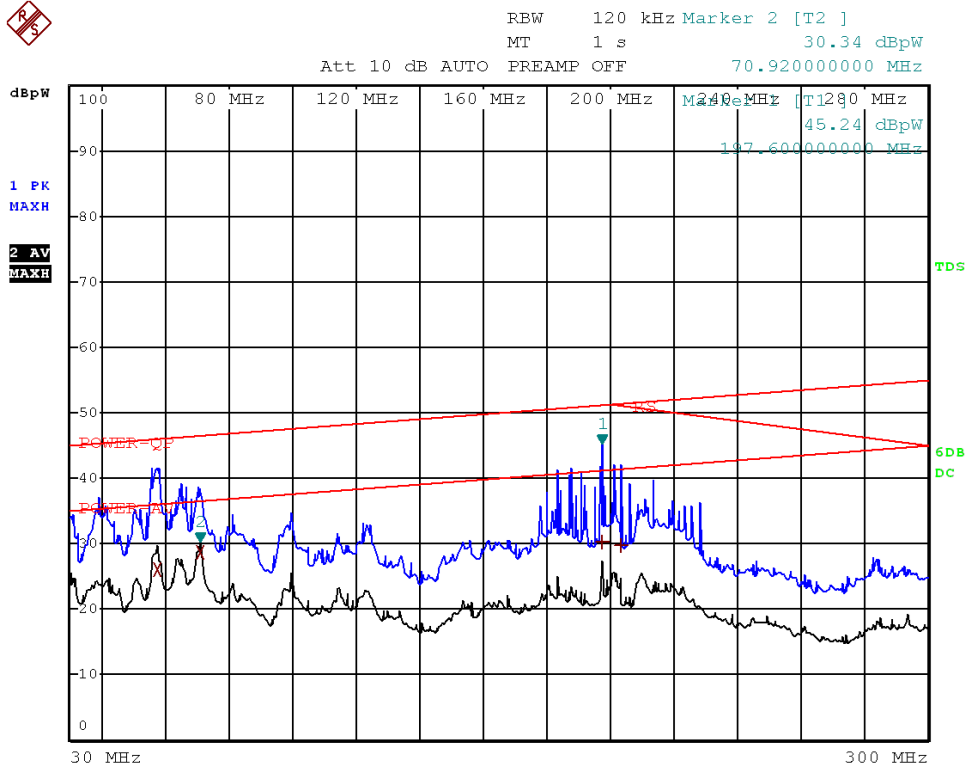


TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
2 Average	75.2 MHz	25.98	-10.68
1 Quasi Peak	74.6 MHz	32.58	-14.06
1 Quasi Peak	74.28 MHz	32.35	-14.28



For Model D
COOL-POWER

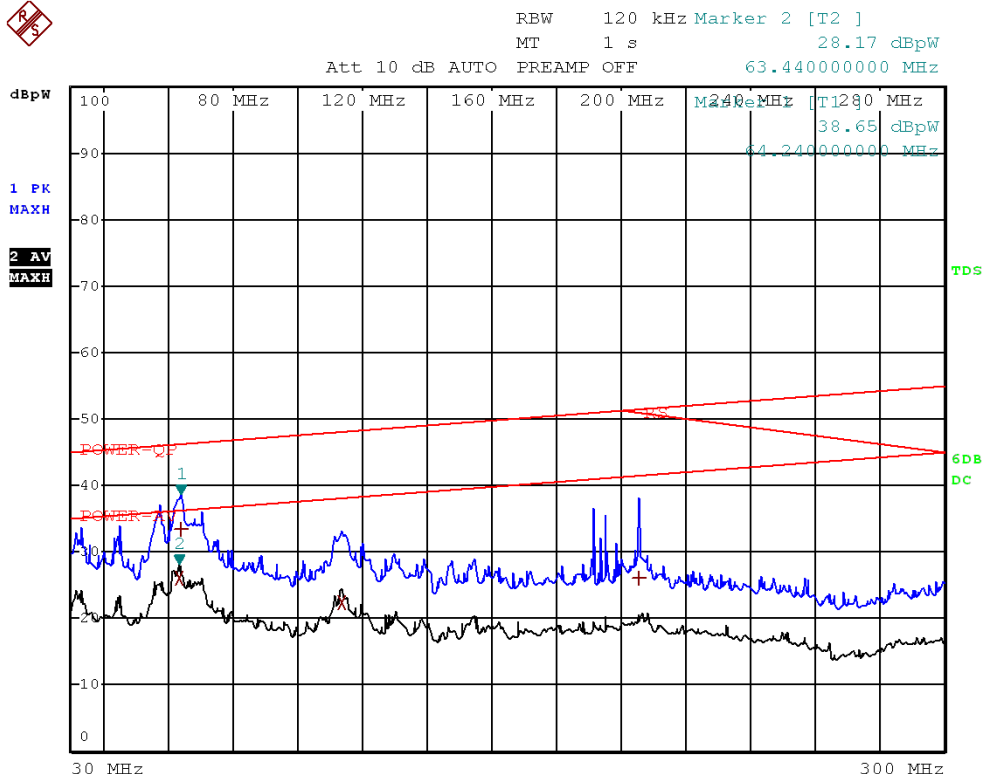
COOL-OUT



TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
2 Average	70.92 MHz	28.81	-7.70
2 Average	57.32 MHz	26.11	-9.89
1 Quasi Peak	197.6 MHz	30.29	-20.91
1 Quasi Peak	203.44 MHz	29.79	-21.63



COOL-IN



TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB
2 Average	63.44 MHz	26.19	-10.04
1 Quasi Peak	64.24 MHz	33.55	-12.71
2 Average	113.56 MHz	22.48	-15.61
1 Quasi Peak	205.6 MHz	26.20	-25.29



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6.4 Discontinuous Disturbance (150kHz-30MHz)

Test Requirement: EN 55014-1:2017+A11:2020

Test Method: EN 55014-1:2017+A11:2020

Frequency Range: 150kHz to 30MHz

Limit:

Provision	Click Rate (N)		
1	All clicks < 20 ms	90 % click < 10 ms	$N \leq 5$
2	$N \leq 0,2$	$L_q^b = L^a + 44$	Clicks $c \leq 25\%$ exceed L_q^b
3	$30 \geq N > 0,2$	$L_q^b = L^a + 20 \lg(30/N)$	Clicks $c \leq 25\%$ exceed L_q^b

^a The limits L of Conducted Emissions apply also to discontinuous disturbances from all equipment which produce:
1) disturbances other than clicks, or
2) clicks with a click rate N equal to or greater than 30

^b The relevant limit L_q for continuous disturbance, as given in 4.1.1 for the measurement with the quasi-peak detector, increased by a certain value determined from the click rate N (see also 4.2.2.2)
The click limit applies to the disturbance assessed according to the upper quartile method

^c a quarter of the number of the clicks registered during the observation time T is allowed to exceed the click limit L_q

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 26 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test Mode: a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.



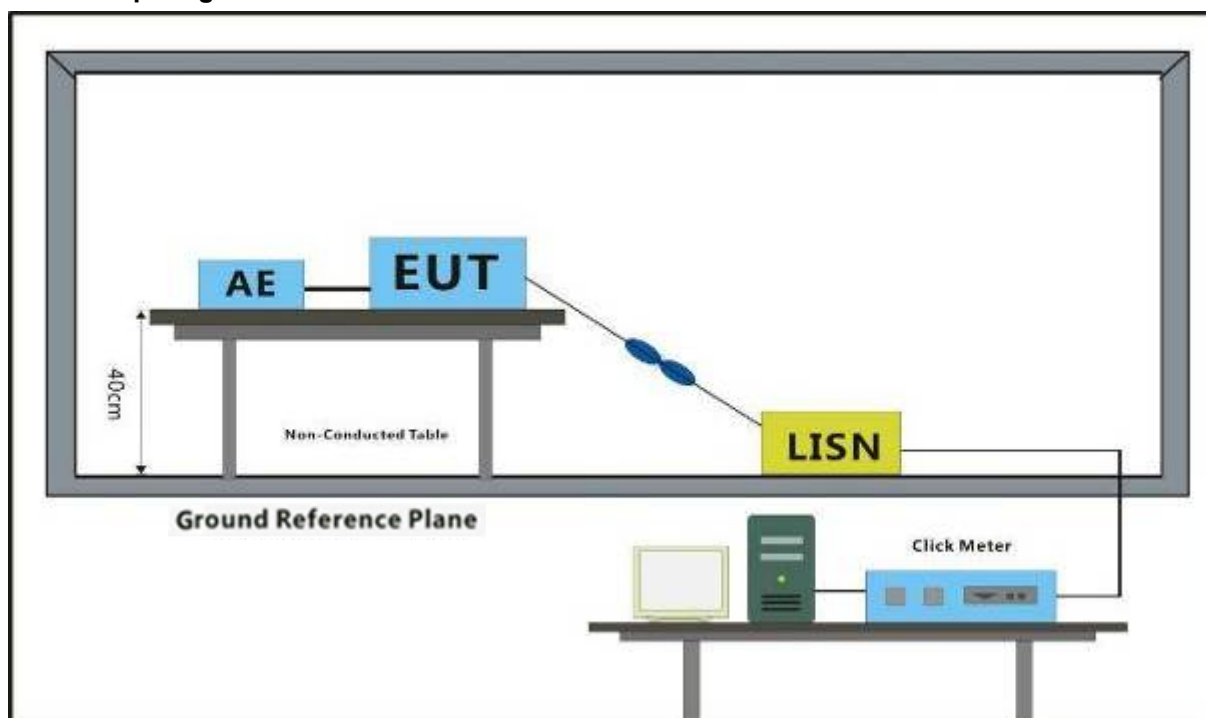
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6.4.2 Test Setup Diagram



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6.4.3 Measurement Data

For Model A

	150 kHz	500 kHz	1.4 MHz	30 MHz
First Run				
Short	0	0	0	0
Long	0	0	0	0
Long (10< t ≤20 ms)	0	0	0	0
Tot. Clicks Corr	0	0	0	0
Events	0	0	0	0
Time(s)	0.00	0.00	0.00	0.00
Sw.Op.	0	0	0	0
4.2.3.4 events	0	0	0	0
Limit dBuV	66	56	56	60
N	0.00	0.00	0.00	0.00
	PASS	PASS	PASS	PASS



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For Model B

	150 kHz	500 kHz	1.4 MHz	30 MHz
First Run				
Short	0	0	0	0
Long	0	0	0	0
Long (10< t ≤20 ms)	0	0	0	0
Tot. Clicks Corr	0	0	0	0
Events	0	0	0	0
Time(s)	0.00	0.00	0.00	0.00
Sw.Op.	0	0	0	0
4.2.3.4 events	0	0	0	0
Limit dBuV	66	56	56	60
N	0.00	0.00	0.00	0.00
	PASS	PASS	PASS	PASS



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For Model C

	150 kHz	500 kHz	1.4 MHz	30 MHz
First Run				
Short	0	0	0	0
Long	0	0	0	0
Long (10< t ≤20 ms)	0	0	0	0
Tot. Clicks Corr	0	0	0	0
Events	0	0	0	0
Time(s)	0.00	0.00	0.00	0.00
Sw.Op.	0	0	0	0
4.2.3.4 events	0	0	0	0
Limit dBuV	66	56	56	60
N	0.00	0.00	0.00	0.00
	PASS	PASS	PASS	PASS



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For Model D

	150 kHz	500 kHz	1.4 MHz	30 MHz
First Run				
Short	0	0	0	0
Long	0	0	0	0
Long (10< t ≤20 ms)	0	0	0	0
Tot. Clicks Corr	0	0	0	0
Events	0	0	0	0
Time(s)	0.00	0.00	0.00	0.00
Sw.Op.	0	0	0	0
4.2.3.4 events	0	0	0	0
Limit dBuV	66	56	56	60
N	0.00	0.00	0.00	0.00
	PASS	PASS	PASS	PASS



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6.5 Harmonic Current Emission

Test Requirement: EN IEC 61000-3-2:2019

Test Method: EN IEC 61000-3-2:2019

Frequency Range: 100Hz to 2kHz

6.5.1 E.U.T. Operation

Operating Environment:

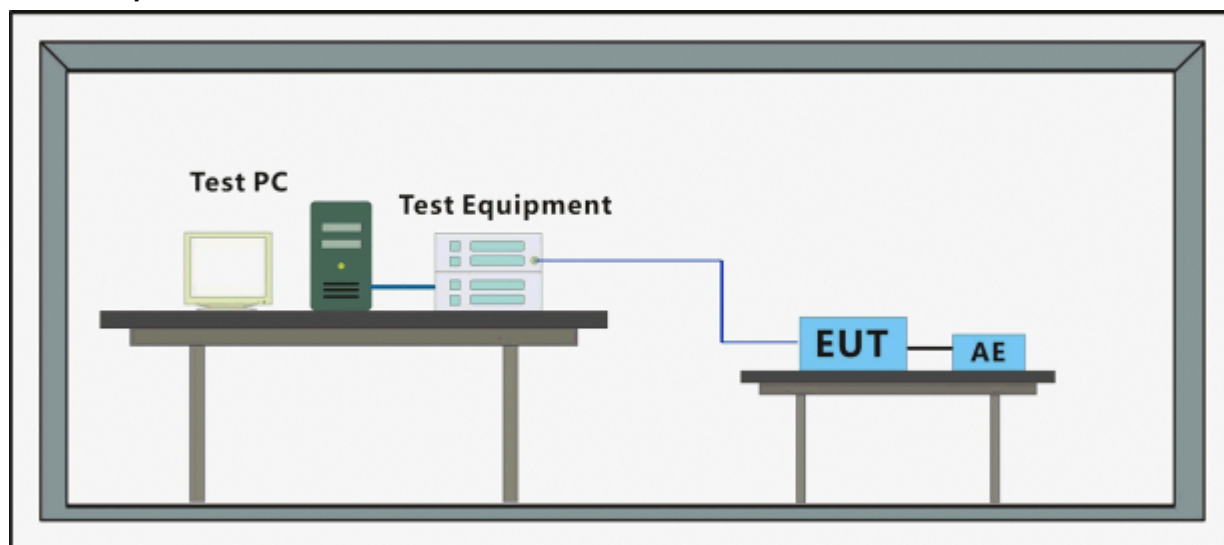
Temperature: 32 °C Humidity: 47 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

The worst case for final test: a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

6.5.2 Test Setup



6.5.3 Measurement Data

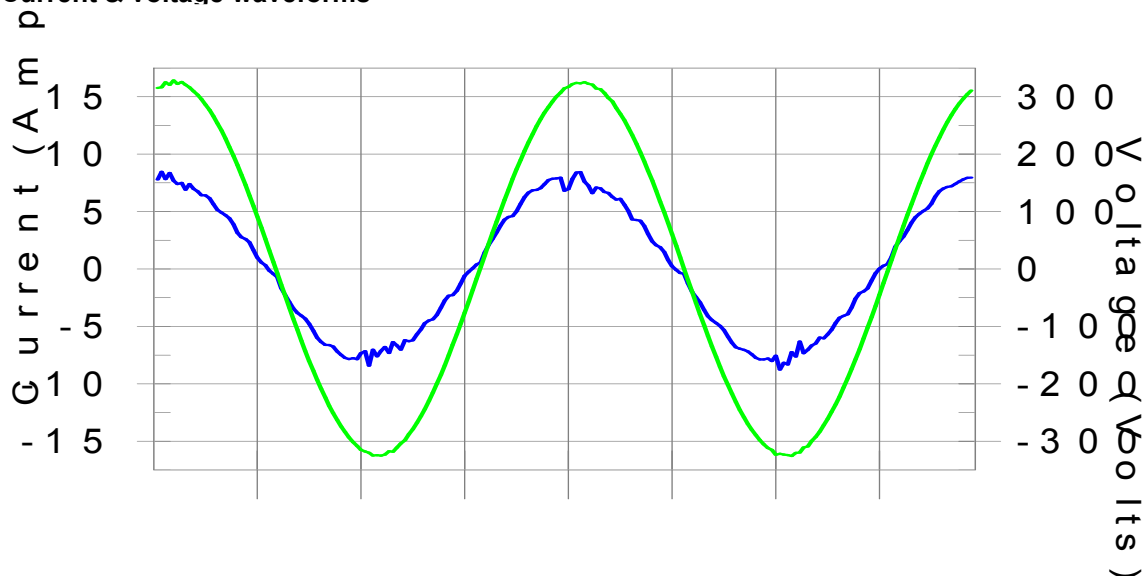
For Model A

Harmonics – Class-A per Ed. 5.0 (2018)(Run time) incl. inter-harmonics

Test Result: Pass

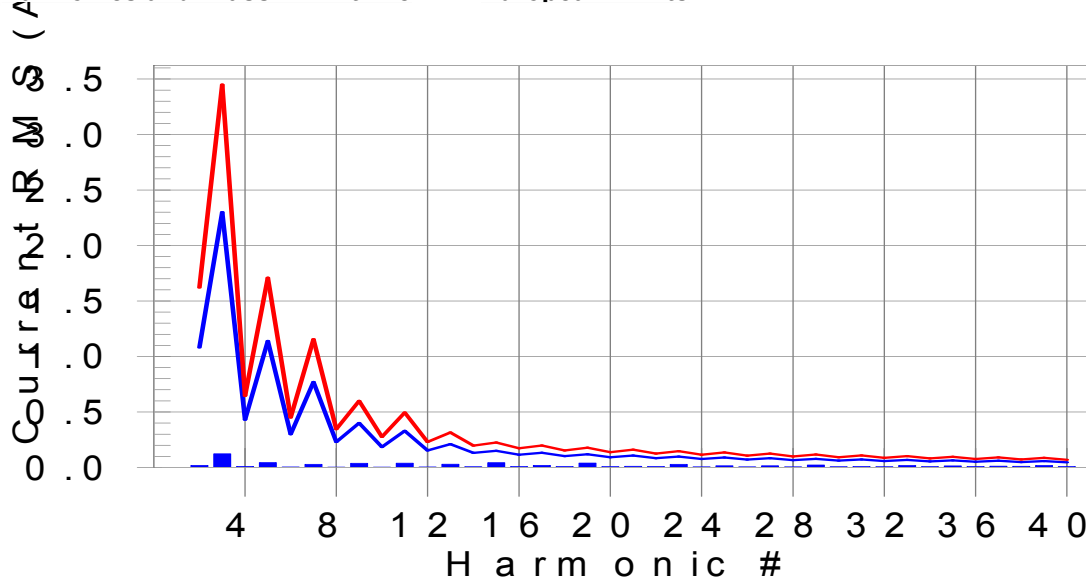
Source qualification: Normal

Current & voltage waveforms



Harmonics and Class A limit line

European Limits



Test result: Pass Worst harmonics H39-24.1% of 150% limit, H19-34.1% of 100% limit.



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Current Test Result Summary (Run time)

Test Result: Pass Source qualification: Normal
THC(A): 0.173 I-THD(%): 3.1 POHC(A): 0.054 POHC Limit(A): 0.251

Highest parameter values during test:

V_RMS (Volts): 229.699 Frequency(Hz): 50.00
I_Peak (Amps): 9.107 I_RMS (Amps): 5.655
I_Fund (Amps): 5.635 Crest Factor: 1.623
Power (Watts): 1280.4 Power Factor: 0.988

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.019	1.080	1.8	0.020	1.620	1.2	Pass
3	0.123	2.300	5.4	0.127	3.450	3.7	Pass
4	0.010	0.430	2.2	0.011	0.645	1.6	Pass
5	0.044	1.140	3.8	0.049	1.710	2.9	Pass
6	0.005	0.300	N/A	0.005	0.450	N/A	Pass
7	0.029	0.770	3.7	0.031	1.155	2.7	Pass
8	0.004	0.230	N/A	0.004	0.345	N/A	Pass
9	0.038	0.400	9.5	0.039	0.600	6.5	Pass
10	0.004	0.184	N/A	0.005	0.276	N/A	Pass
11	0.039	0.330	11.8	0.041	0.495	8.3	Pass
12	0.005	0.153	N/A	0.005	0.230	N/A	Pass
13	0.030	0.210	14.3	0.031	0.315	9.8	Pass
14	0.006	0.131	4.8	0.007	0.197	3.5	Pass
15	0.043	0.150	28.9	0.045	0.225	19.9	Pass
16	0.009	0.115	7.7	0.010	0.173	5.7	Pass
17	0.019	0.132	14.5	0.020	0.198	10.2	Pass
18	0.008	0.102	8.2	0.010	0.153	6.6	Pass
19	0.040	0.118	34.1	0.042	0.178	23.4	Pass
20	0.008	0.092	8.2	0.008	0.138	5.9	Pass
21	0.011	0.107	9.8	0.012	0.161	7.4	Pass
22	0.008	0.084	10.0	0.009	0.125	7.2	Pass
23	0.028	0.098	29.0	0.029	0.147	19.9	Pass
24	0.006	0.077	7.6	0.007	0.115	5.7	Pass
25	0.015	0.090	17.0	0.016	0.135	12.0	Pass
26	0.006	0.071	8.4	0.008	0.107	7.1	Pass
27	0.015	0.083	18.4	0.016	0.125	12.8	Pass
28	0.006	0.066	9.4	0.009	0.099	8.9	Pass
29	0.022	0.078	28.1	0.023	0.116	19.6	Pass
30	0.006	0.061	10.4	0.007	0.092	7.8	Pass
31	0.009	0.073	11.7	0.009	0.109	8.7	Pass
32	0.007	0.058	12.2	0.008	0.086	9.2	Pass
33	0.018	0.068	27.1	0.020	0.102	19.1	Pass
34	0.008	0.054	15.3	0.009	0.081	11.2	Pass
35	0.014	0.064	21.4	0.015	0.096	15.9	Pass
36	0.009	0.051	18.2	0.011	0.077	14.0	Pass
37	0.012	0.061	20.0	0.013	0.091	14.5	Pass
38	0.010	0.048	21.5	0.012	0.073	16.6	Pass
39	0.018	0.058	31.6	0.021	0.087	24.1	Pass
40	0.009	0.046	18.6	0.010	0.069	14.2	Pass



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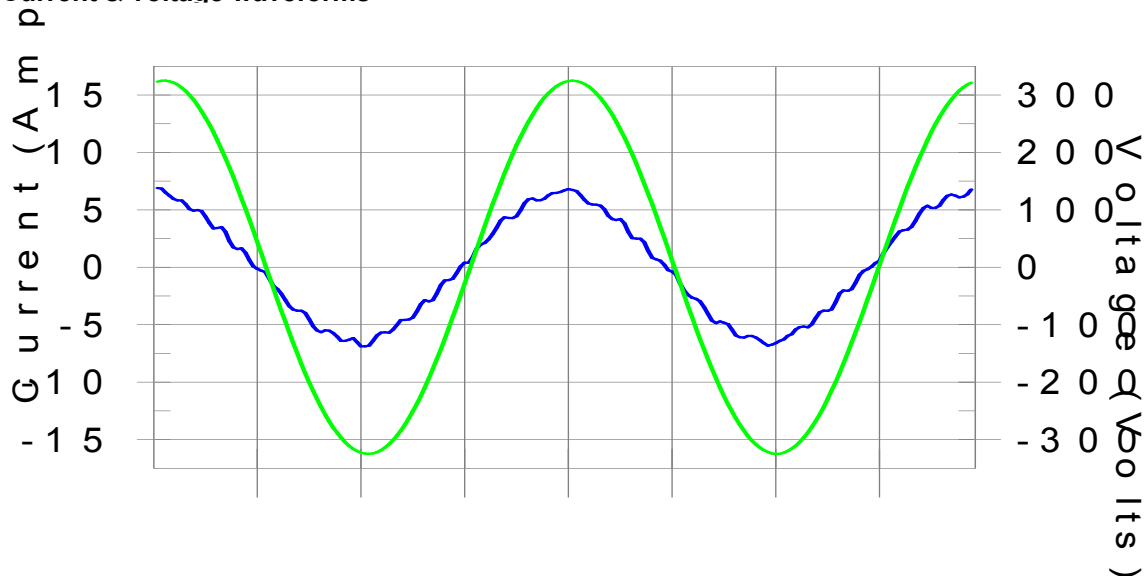
For Model B

Harmonics – Class-A per Ed. 5.0 (2018)(Run time) incl. inter-harmonics

Test Result: Pass

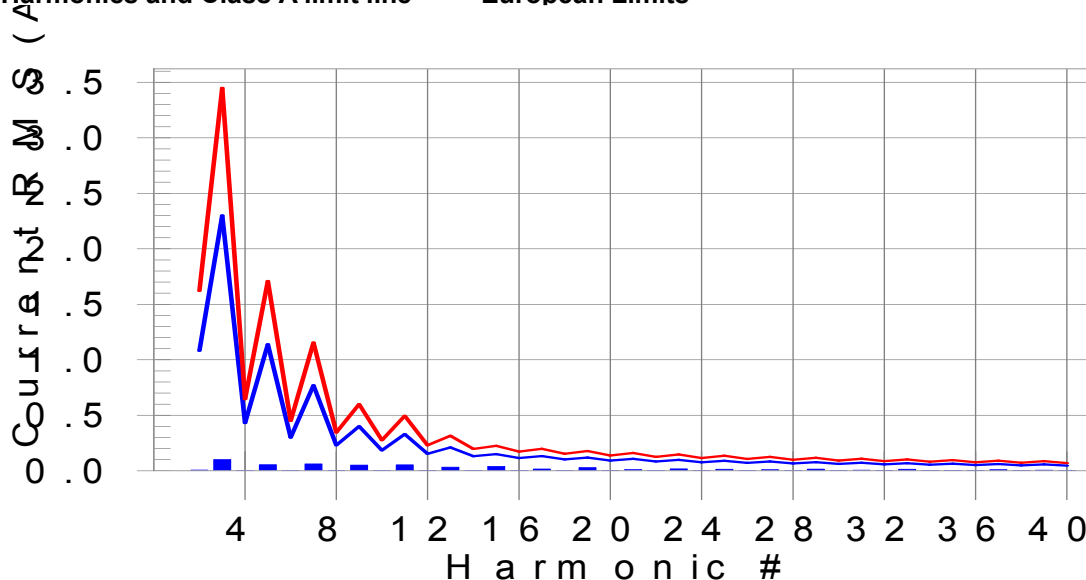
Source qualification: Normal

Current & voltage waveforms



Harmonics and Class A limit line

European Limits



Test result: Pass Worst harmonics H15-18.3% of 150% limit, H15-26.9% of 100% limit.



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 Guangzhou Branch Testing & EEC Laboratory

No. 198 Kechu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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Current Test Result Summary (Run time)

Test Result: Pass Source qualification: Normal
THC(A): 0.166 I-THD(%): 3.7 POHC(A): 0.036 POHC Limit(A): 0.251

Highest parameter values during test:

V_RMS (Volts): 229.744 Frequency(Hz): 50.00
I_Peak (Amps): 7.101 I_RMS (Amps): 4.512
I_Fund (Amps): 4.496 Crest Factor: 1.584
Power (Watts): 1020.5 Power Factor: 0.987

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.006	1.080	0.6	0.007	1.620	0.4	Pass
3	0.101	2.300	4.4	0.104	3.450	3.0	Pass
4	0.003	0.430	N/A	0.003	0.645	N/A	Pass
5	0.054	1.140	4.8	0.055	1.710	3.2	Pass
6	0.002	0.300	N/A	0.003	0.450	N/A	Pass
7	0.062	0.770	8.0	0.063	1.155	5.4	Pass
8	0.002	0.230	N/A	0.003	0.345	N/A	Pass
9	0.052	0.400	13.0	0.053	0.600	8.8	Pass
10	0.002	0.184	N/A	0.002	0.276	N/A	Pass
11	0.053	0.330	16.1	0.054	0.495	10.9	Pass
12	0.002	0.153	N/A	0.002	0.230	N/A	Pass
13	0.033	0.210	15.7	0.034	0.315	10.7	Pass
14	0.002	0.131	N/A	0.002	0.197	N/A	Pass
15	0.040	0.150	26.9	0.041	0.225	18.3	Pass
16	0.002	0.115	N/A	0.002	0.173	N/A	Pass
17	0.016	0.132	12.4	0.017	0.198	8.5	Pass
18	0.002	0.102	N/A	0.002	0.153	N/A	Pass
19	0.028	0.118	23.7	0.029	0.178	16.1	Pass
20	0.002	0.092	N/A	0.003	0.138	N/A	Pass
21	0.011	0.107	9.8	0.011	0.161	6.8	Pass
22	0.002	0.084	N/A	0.003	0.125	N/A	Pass
23	0.018	0.098	17.9	0.018	0.147	12.4	Pass
24	0.002	0.077	N/A	0.002	0.115	N/A	Pass
25	0.014	0.090	15.3	0.014	0.135	10.4	Pass
26	0.002	0.071	N/A	0.002	0.107	N/A	Pass
27	0.010	0.083	11.5	0.010	0.125	7.9	Pass
28	0.002	0.066	N/A	0.002	0.099	N/A	Pass
29	0.016	0.078	20.0	0.016	0.116	13.7	Pass
30	0.002	0.061	N/A	0.002	0.092	N/A	Pass
31	0.005	0.073	7.3	0.006	0.109	5.2	Pass
32	0.002	0.058	N/A	0.002	0.086	N/A	Pass
33	0.014	0.068	20.6	0.014	0.102	14.1	Pass
34	0.002	0.054	N/A	0.003	0.081	N/A	Pass
35	0.004	0.064	N/A	0.004	0.096	N/A	Pass
36	0.004	0.051	N/A	0.004	0.077	N/A	Pass
37	0.010	0.061	17.1	0.011	0.091	11.7	Pass
38	0.003	0.048	N/A	0.004	0.073	N/A	Pass
39	0.006	0.058	9.8	0.006	0.087	7.2	Pass
40	0.002	0.046	N/A	0.002	0.069	N/A	Pass



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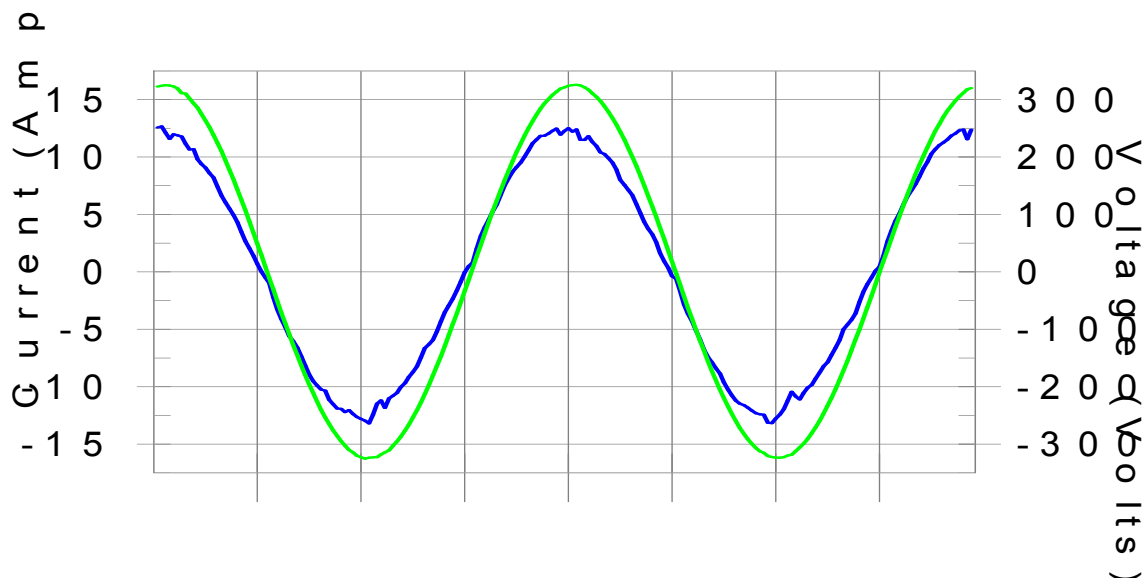
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For Model C

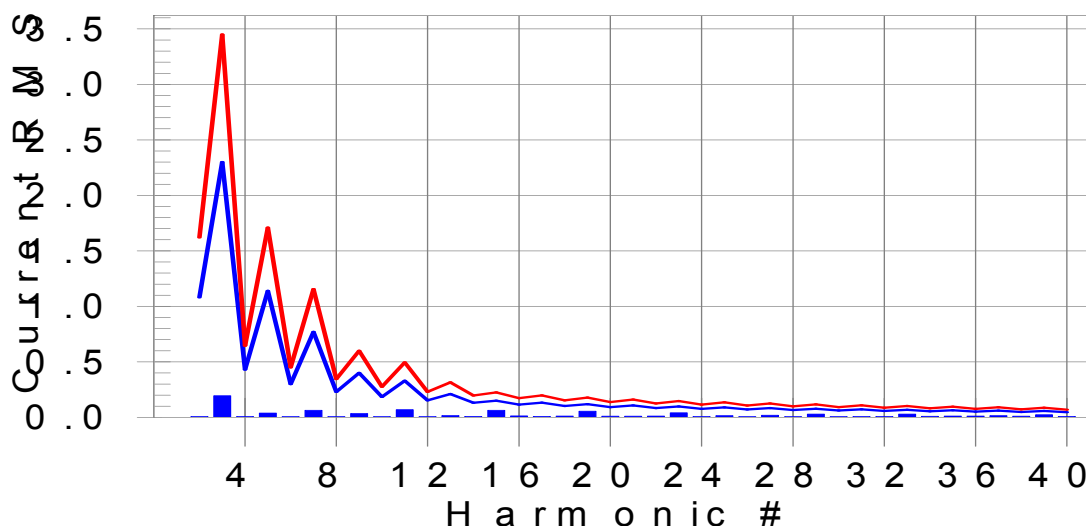
Harmonics – Class-A per Ed. 5.0 (2018)(Run time) incl. inter-harmonics

Test Result: Pass Source qualification: Normal

Current & voltage waveforms



Harmonics and Class A limit line European Limits



Test result: Pass Worst harmonics H19-32.0% of 150% limit, H19-47.3% of 100% limit.



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Current Test Result Summary (Run time)

Test Result: Pass Source qualification: Normal
THC(A): 0.252 I-THD(%): 2.8 POHC(A): 0.071 POHC Limit(A): 0.251

Highest parameter values during test:

V_RMS (Volts): 229.628 Frequency(Hz): 50.00
I_Peak (Amps): 13.826 I_RMS (Amps): 8.867
I_Fund (Amps): 8.851 Crest Factor: 1.568
Power (Watts): 2020.6 Power Factor: 0.994

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.007	1.080	0.7	0.009	1.620	0.5	Pass
3	0.194	2.300	8.4	0.201	3.450	5.8	Pass
4	0.008	0.430	1.8	0.009	0.645	1.4	Pass
5	0.039	1.140	3.4	0.041	1.710	2.4	Pass
6	0.007	0.300	2.3	0.008	0.450	1.7	Pass
7	0.064	0.770	8.3	0.067	1.155	5.8	Pass
8	0.007	0.230	2.8	0.007	0.345	2.1	Pass
9	0.034	0.400	8.6	0.036	0.600	6.1	Pass
10	0.006	0.184	3.5	0.007	0.276	2.6	Pass
11	0.069	0.330	20.8	0.071	0.495	14.3	Pass
12	0.007	0.153	4.6	0.008	0.230	3.4	Pass
13	0.016	0.210	7.7	0.017	0.315	5.5	Pass
14	0.009	0.131	7.0	0.010	0.197	5.2	Pass
15	0.064	0.150	42.6	0.065	0.225	29.0	Pass
16	0.013	0.115	11.3	0.014	0.173	8.3	Pass
17	0.009	0.132	6.5	0.010	0.198	5.0	Pass
18	0.012	0.102	11.8	0.013	0.153	8.5	Pass
19	0.056	0.118	47.3	0.057	0.178	32.0	Pass
20	0.011	0.092	11.7	0.012	0.138	8.5	Pass
21	0.011	0.107	10.0	0.012	0.161	7.4	Pass
22	0.012	0.084	14.2	0.013	0.125	10.4	Pass
23	0.041	0.098	42.0	0.043	0.147	29.1	Pass
24	0.008	0.077	9.8	0.009	0.115	7.5	Pass
25	0.015	0.090	17.0	0.017	0.135	12.3	Pass
26	0.007	0.071	10.1	0.008	0.107	7.4	Pass
27	0.019	0.083	22.7	0.020	0.125	16.4	Pass
28	0.007	0.066	10.7	0.008	0.099	8.0	Pass
29	0.030	0.078	38.0	0.031	0.116	26.5	Pass
30	0.007	0.061	11.3	0.008	0.092	8.5	Pass
31	0.008	0.073	10.6	0.009	0.109	7.9	Pass
32	0.008	0.058	13.7	0.010	0.086	11.3	Pass
33	0.030	0.068	43.9	0.031	0.102	30.6	Pass
34	0.010	0.054	18.4	0.011	0.081	13.6	Pass
35	0.012	0.064	18.4	0.014	0.096	14.8	Pass
36	0.012	0.051	23.3	0.013	0.077	16.9	Pass
37	0.015	0.061	24.2	0.017	0.091	18.6	Pass
38	0.011	0.048	23.1	0.012	0.073	17.1	Pass
39	0.023	0.058	39.7	0.027	0.087	30.7	Pass
40	0.009	0.046	20.2	0.011	0.069	16.4	Pass



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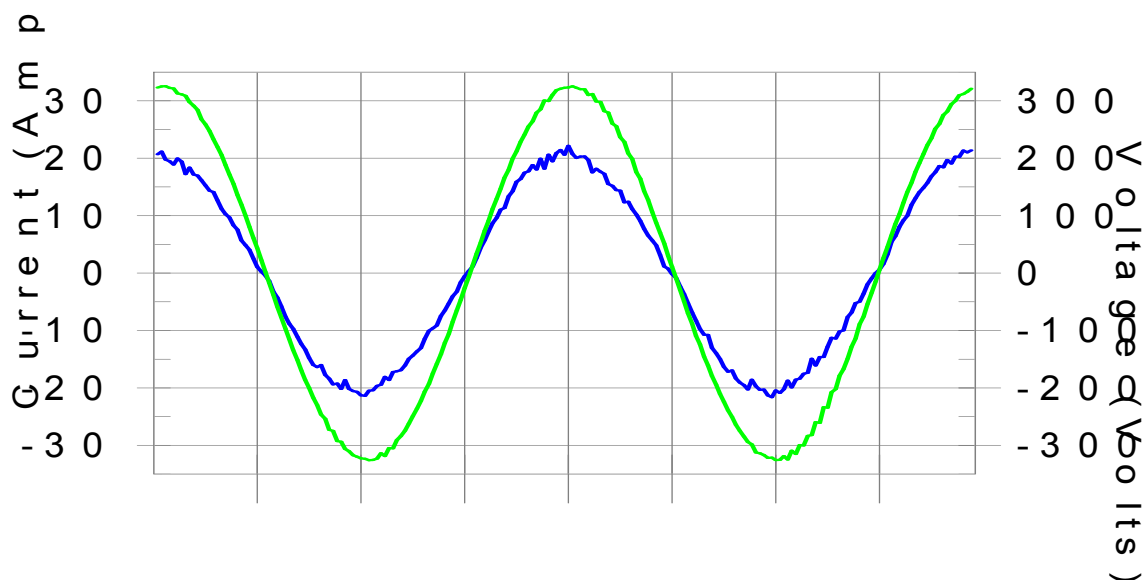
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For Model D

Harmonics – Class-A per Ed. 5.0 (2018)(Run time) incl. inter-harmonics

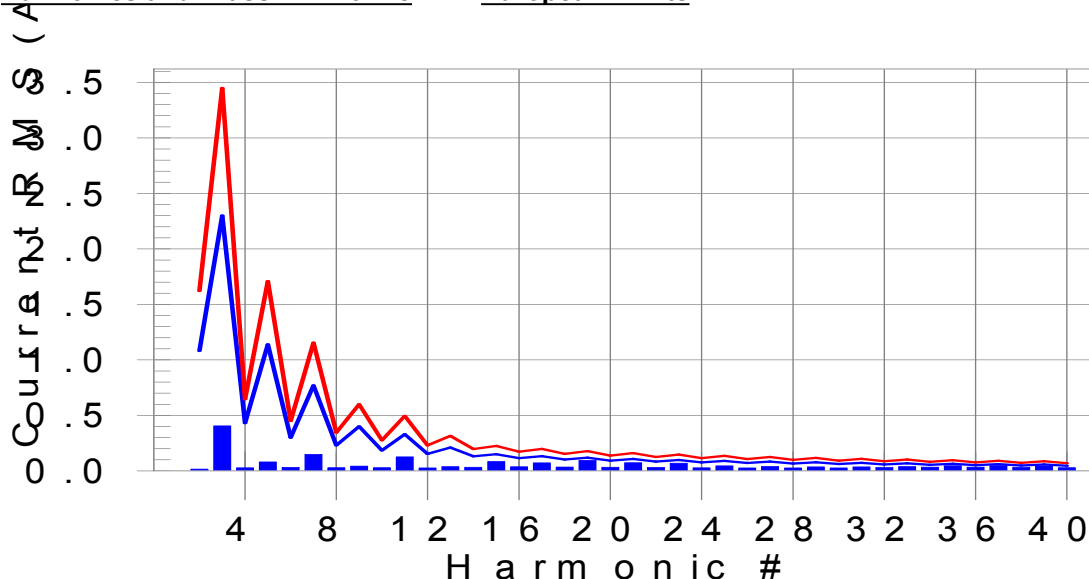
Test Result: Pass Source qualification: Compensated

Current & voltage waveforms



Harmonics and Class A limit line

European Limits



Test result: Pass Worst harmonics H37-57.5% of 150% limit, H19-80% of 100% limit.



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Current Test Result Summary (Run time)

Test Result: Pass Source qualification: Compensated
THC(A): 0.526 I-THD(%): 3.6 POHC(A): 0.156 POHC Limit(A): 0.251

Highest parameter values during test:

V_RMS (Volts): 229.421 Frequency(Hz): 50.00
I_Peak (Amps): 22.923 I_RMS (Amps): 14.650
I_Fund (Amps): 14.618 Crest Factor: 1.569
Power (Watts): 3344.9 Power Factor: 0.997

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.016	1.080	1.4	0.018	1.620	1.1	Pass
3	0.406	2.300	17.6	0.419	3.450	12.2	Pass
4	0.028	0.430	6.5	0.031	0.645	4.8	Pass
5	0.081	1.140	7.1	0.100	1.710	5.8	Pass
6	0.031	0.300	10.4	0.035	0.450	7.7	Pass
7	0.149	0.770	19.3	0.160	1.155	13.9	Pass
8	0.028	0.230	12.2	0.031	0.345	9.0	Pass
9	0.043	0.400	10.7	0.051	0.600	8.4	Pass
10	0.028	0.184	15.4	0.033	0.276	12.0	Pass
11	0.126	0.330	38.3	0.133	0.495	26.8	Pass
12	0.026	0.153	17.2	0.029	0.230	12.8	Pass
13	0.038	0.210	18.1	0.043	0.315	13.7	Pass
14	0.032	0.131	24.8	0.037	0.197	18.8	Pass
15	0.084	0.150	56.2	0.092	0.225	40.7	Pass
16	0.037	0.115	32.0	0.040	0.173	22.9	Pass
17	0.073	0.132	55.0	0.082	0.198	41.4	Pass
18	0.034	0.102	33.8	0.041	0.153	26.6	Pass
19	0.095	0.118	80.0	0.099	0.178	55.9	Pass
20	0.033	0.092	35.8	0.037	0.138	27.2	Pass
21	0.074	0.107	68.8	0.077	0.161	48.1	Pass
22	0.032	0.084	38.2	0.037	0.125	29.7	Pass
23	0.069	0.098	70.9	0.072	0.147	49.4	Pass
24	0.028	0.077	36.2	0.031	0.115	27.1	Pass
25	0.045	0.090	50.1	0.049	0.135	36.2	Pass
26	0.026	0.071	37.0	0.030	0.107	27.9	Pass
27	0.040	0.083	48.4	0.045	0.125	35.9	Pass
28	0.026	0.066	39.7	0.028	0.099	28.7	Pass
29	0.036	0.078	46.6	0.041	0.116	34.8	Pass
30	0.027	0.061	43.3	0.029	0.092	31.9	Pass
31	0.036	0.073	49.4	0.039	0.109	36.3	Pass
32	0.030	0.058	52.4	0.040	0.086	46.1	Pass
33	0.039	0.068	56.8	0.045	0.102	44.0	Pass
34	0.034	0.054	63.1	0.038	0.081	46.7	Pass
35	0.046	0.064	71.2	0.050	0.096	51.6	Pass
36	0.034	0.051	66.1	0.041	0.077	53.0	Pass
37	0.047	0.061	77.2	0.052	0.091	57.5	Pass
38	0.032	0.048	67.0	0.037	0.073	50.8	Pass
39	0.044	0.058	76.9	0.050	0.087	57.4	Pass
40	0.029	0.046	63.1	0.035	0.069	50.1	Pass



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6.6 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3:2013+A1:2019

Test Method: EN 61000-3-3:2013+A1:2019

6.6.1 E.U.T. Operation

Operating Environment:

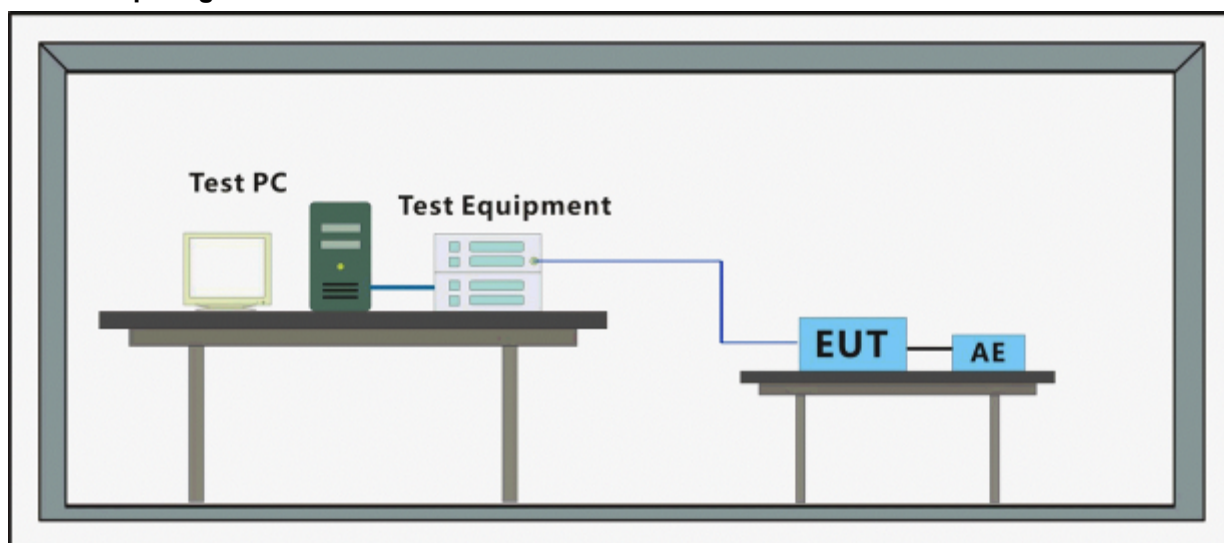
Temperature: 26 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

The worst case for final test: a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

6.6.2 Test Setup Diagram



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6.6.3 Measurement Data

For Model A

Test Report ISMDPA

Report title:	ST20201010127
Standard used:	EN 61000-3-3 Ed.3 Flicker
Short time (Pst):	10 min
Observation time:	120 min (12 Flicker measurements)
Flickermeter:	230V / 50Hz according IEC 61000-4-15 Ed.2
Flicker Impedance:	Zref (IEC 60725)
Test Result	PASS

Maximum Flicker results

	EUT values	Limit	Result
Pst	0.287	1.00	PASS
Plt	0.272	0.65	PASS
dc [%]	0.365	3.30	PASS
dmax [%]	0.465	6.00	PASS
dt [s]	0.000	0.50	PASS



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Detail Flicker data

Flicker measurement 1	EUT values	Limit	Result
Pst	0.287	1.00	PASS
dc [%]	0.101	3.30	PASS
dmax [%]	0.420	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 2	EUT values	Limit	Result
Pst	0.255	1.00	PASS
dc [%]	0.099	3.30	PASS
dmax [%]	0.265	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 3	EUT values	Limit	Result
Pst	0.283	1.00	PASS
dc [%]	0.083	3.30	PASS
dmax [%]	0.263	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 4	EUT values	Limit	Result
Pst	0.276	1.00	PASS
dc [%]	0.070	3.30	PASS
dmax [%]	0.429	6.00	PASS
dt [s]	0.000	0.50	PASS



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Flicker measurement 5	EUT values	Limit	Result
Pst	0.279	1.00	PASS
dc [%]	0.106	3.30	PASS
dmax [%]	0.455	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 6	EUT values	Limit	Result
Pst	0.273	1.00	PASS
dc [%]	0.079	3.30	PASS
dmax [%]	0.434	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 7	EUT values	Limit	Result
Pst	0.277	1.00	PASS
dc [%]	0.105	3.30	PASS
dmax [%]	0.449	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 8	EUT values	Limit	Result
Pst	0.270	1.00	PASS
dc [%]	0.094	3.30	PASS
dmax [%]	0.265	6.00	PASS
dt [s]	0.000	0.50	PASS



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Flicker measurement 9	EUT values	Limit	Result
Pst	0.258	1.00	PASS
dc [%]	0.080	3.30	PASS
dmax [%]	0.434	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 10	EUT values	Limit	Result
Pst	0.276	1.00	PASS
dc [%]	0.106	3.30	PASS
dmax [%]	0.264	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 11	EUT values	Limit	Result
Pst	0.240	1.00	PASS
dc [%]	0.365	3.30	PASS
dmax [%]	0.465	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 12	EUT values	Limit	Result
Pst	0.280	1.00	PASS
dc [%]	0.107	3.30	PASS
dmax [%]	0.441	6.00	PASS
dt [s]	0.000	0.50	PASS



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For Model B

Test Report ISMDPA

Report title:	ST20201214150
Company Name:	/
Date of test:	9:39 15.Jan 2021
Tester:	/
Standard used:	EN/IEC 61000-3-3 Ed.3 Flicker
Short time (Pst):	10 min
Observation time:	120 min (12 Flicker measurements)
Flickermeter:	230V / 50Hz according IEC 61000-4-15 Ed.2
Flicker Impedance:	Zref (IEC 60725)
Customer:	/
E. U. T.:	ST20201214150
Temperature :	25
Humidity :	50

Test Result	PASS
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Maximum Flicker results

	EUT values	Limit	Result
Pst	0.190	1.00	PASS
Plt	0.166	0.65	PASS
dc [%]	0.176	3.30	PASS
dmax [%]	0.466	6.00	PASS
dt [s]	0.000	0.50	PASS



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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Detail Flicker data

Flicker measurement 1	EUT values	Limit	Result
Pst	0.059	1.00	PASS
dc [%]	0.145	3.30	PASS
dmax [%]	0.216	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 2	EUT values	Limit	Result
Pst	0.158	1.00	PASS
dc [%]	0.086	3.30	PASS
dmax [%]	0.180	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 3	EUT values	Limit	Result
Pst	0.155	1.00	PASS
dc [%]	0.173	3.30	PASS
dmax [%]	0.416	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 4	EUT values	Limit	Result
Pst	0.146	1.00	PASS
dc [%]	0.148	3.30	PASS
dmax [%]	0.225	6.00	PASS
dt [s]	0.000	0.50	PASS



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Flicker measurement 5	EUT values	Limit	Result
Pst	0.143	1.00	PASS
dc [%]	0.176	3.30	PASS
dmax [%]	0.393	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 6	EUT values	Limit	Result
Pst	0.148	1.00	PASS
dc [%]	0.139	3.30	PASS
dmax [%]	0.410	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 7	EUT values	Limit	Result
Pst	0.173	1.00	PASS
dc [%]	0.147	3.30	PASS
dmax [%]	0.415	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 8	EUT values	Limit	Result
Pst	0.187	1.00	PASS
dc [%]	0.093	3.30	PASS
dmax [%]	0.413	6.00	PASS
dt [s]	0.000	0.50	PASS



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Flicker measurement 9	EUT values	Limit	Result
Pst	0.187	1.00	PASS
dc [%]	0.083	3.30	PASS
dmax [%]	0.398	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 10	EUT values	Limit	Result
Pst	0.186	1.00	PASS
dc [%]	0.082	3.30	PASS
dmax [%]	0.423	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 11	EUT values	Limit	Result
Pst	0.188	1.00	PASS
dc [%]	0.097	3.30	PASS
dmax [%]	0.466	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 12	EUT values	Limit	Result
Pst	0.190	1.00	PASS
dc [%]	0.108	3.30	PASS
dmax [%]	0.453	6.00	PASS
dt [s]	0.000	0.50	PASS



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For Model C

Test Report ISMDPA

Report title:	ST20201010128
Standard used:	EN 61000-3-3 Ed.3 Flicker
Short time (Pst):	10 min
Observation time:	120 min (12 Flicker measurements)
Flickermeter:	230V / 50Hz according IEC 61000-4-15 Ed.2
Flicker Impedance:	Zref (IEC 60725)
Test Result	PASS

Maximum Flicker results

	EUT values	Limit	Result
Pst	0.280	1.00	PASS
Plt	0.164	0.65	PASS
dc [%]	0.158	3.30	PASS
dmax [%]	0.343	6.00	PASS
dt [s]	0.000	0.50	PASS



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Detail Flicker data

Flicker measurement 1	EUT values	Limit	Result
Pst	0.280	1.00	PASS
dc [%]	0.158	3.30	PASS
dmax [%]	0.343	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 2	EUT values	Limit	Result
Pst	0.176	1.00	PASS
dc [%]	0.129	3.30	PASS
dmax [%]	0.234	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 3	EUT values	Limit	Result
Pst	0.162	1.00	PASS
dc [%]	0.084	3.30	PASS
dmax [%]	0.239	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 4	EUT values	Limit	Result
Pst	0.174	1.00	PASS
dc [%]	0.106	3.30	PASS
dmax [%]	0.218	6.00	PASS
dt [s]	0.000	0.50	PASS



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Flicker measurement 5	EUT values	Limit	Result
Pst	0.170	1.00	PASS
dc [%]	0.082	3.30	PASS
dmax [%]	0.256	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 6	EUT values	Limit	Result
Pst	0.186	1.00	PASS
dc [%]	0.105	3.30	PASS
dmax [%]	0.306	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 7	EUT values	Limit	Result
Pst	0.038	1.00	PASS
dc [%]	0.000	3.30	PASS
dmax [%]	0.163	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 8	EUT values	Limit	Result
Pst	0.048	1.00	PASS
dc [%]	0.000	3.30	PASS
dmax [%]	0.165	6.00	PASS
dt [s]	0.000	0.50	PASS



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Flicker measurement 9	EUT values	Limit	Result
Pst	0.048	1.00	PASS
dc [%]	0.092	3.30	PASS
dmax [%]	0.162	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 10	EUT values	Limit	Result
Pst	0.156	1.00	PASS
dc [%]	0.067	3.30	PASS
dmax [%]	0.226	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 11	EUT values	Limit	Result
Pst	0.073	1.00	PASS
dc [%]	0.000	3.30	PASS
dmax [%]	0.164	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 12	EUT values	Limit	Result
Pst	0.076	1.00	PASS
dc [%]	0.000	3.30	PASS
dmax [%]	0.172	6.00	PASS
dt [s]	0.000	0.50	PASS



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For Model D**Test Report ISMDPA**

Report title:	ET2020121586
Standard used:	EN 61000-3-3 Ed.3 Flicker
Short time (Pst):	10 min
Observation time:	120 min (12 Flicker measurements)
Flickermeter:	230V / 50Hz according IEC 61000-4-15 Ed.2
Flicker Impedance:	Zref (IEC 60725)

Test Result	PASS
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Maximum Flicker results

	EUT values	Limit	Result
Pst	0.144	1.00	PASS
Plt	0.126	0.65	PASS
dc [%]	1.012	3.30	PASS
dmax [%]	1.072	6.00	PASS
dt [s]	0.000	0.50	PASS



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Detail Flicker data

Flicker measurement 1	EUT values	Limit	Result
Pst	0.084	1.00	PASS
dc [%]	0.542	3.30	PASS
dmax [%]	0.625	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 2	EUT values	Limit	Result
Pst	0.144	1.00	PASS
dc [%]	1.012	3.30	PASS
dmax [%]	1.064	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 3	EUT values	Limit	Result
Pst	0.082	1.00	PASS
dc [%]	0.511	3.30	PASS
dmax [%]	0.600	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 4	EUT values	Limit	Result
Pst	0.138	1.00	PASS
dc [%]	0.966	3.30	PASS
dmax [%]	1.045	6.00	PASS
dt [s]	0.000	0.50	PASS



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Flicker measurement 5	EUT values	Limit	Result
Pst	0.143	1.00	PASS
dc [%]	0.982	3.30	PASS
dmax [%]	1.068	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 6	EUT values	Limit	Result
Pst	0.082	1.00	PASS
dc [%]	0.500	3.30	PASS
dmax [%]	0.591	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 7	EUT values	Limit	Result
Pst	0.138	1.00	PASS
dc [%]	0.967	3.30	PASS
dmax [%]	1.032	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 8	EUT values	Limit	Result
Pst	0.079	1.00	PASS
dc [%]	0.514	3.30	PASS
dmax [%]	0.608	6.00	PASS
dt [s]	0.000	0.50	PASS



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Flicker measurement 9	EUT values	Limit	Result
Pst	0.138	1.00	PASS
dc [%]	0.980	3.30	PASS
dmax [%]	1.022	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 10	EUT values	Limit	Result
Pst	0.140	1.00	PASS
dc [%]	0.987	3.30	PASS
dmax [%]	1.065	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 11	EUT values	Limit	Result
Pst	0.138	1.00	PASS
dc [%]	0.969	3.30	PASS
dmax [%]	1.052	6.00	PASS
dt [s]	0.000	0.50	PASS

Flicker measurement 12	EUT values	Limit	Result
Pst	0.138	1.00	PASS
dc [%]	0.975	3.30	PASS
dmax [%]	1.072	6.00	PASS
dt [s]	0.000	0.50	PASS



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7 Immunity Test Results

7.1 Performance Criteria Description in EN 55014-2:2015

- Criterion A** The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. 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 from what the user may reasonably expect from the apparatus if used as intended.
- Criterion B** The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however. No change of actual operating state or stored data is allowed. 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 from what the user may reasonably expect from the apparatus if used as intended.
- Criterion C** Temporary loss of function is allowed, provided the function is self recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.



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7.2 Electrostatic Discharge

Test Requirement: EN 55014-2:2015
 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

7.2.1 E.U.T. Operation

Operating Environment:

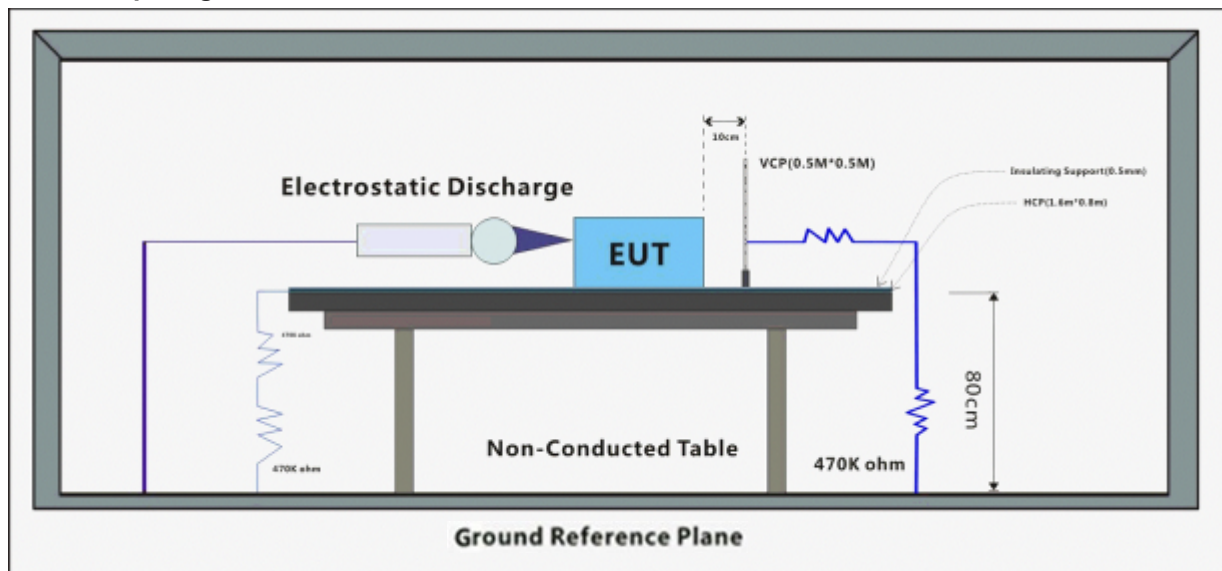
Temperature: 26 °C Humidity: 48 % RH Atmospheric Pressure: 1020 mbar

a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

Test Mode: b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

c: Test in idle mode.

7.2.2 Test Setup Diagram



7.2.3 Test Results:

For all models:

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
Air Discharge	8	+	1	A
Air Discharge	8	-	1	A
Contact Discharge	4	+	2	A
Contact Discharge	4	-	2	A
Horizontal Coupling	4	+	3	N/A
Horizontal Coupling	4	-	3	N/A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

Results:

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

N/A: Not Applicable (not required by Standard).



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7.3 Electrical Fast Transients/Burst at Power Port

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-4:2012
 Performance Criterion: B
 Repetition Frequency: 5kHz
 Burst Period: 300ms
 Test Duration: 2 minute per level & polarity

7.3.1 E.U.T. Operation

Operating Environment:

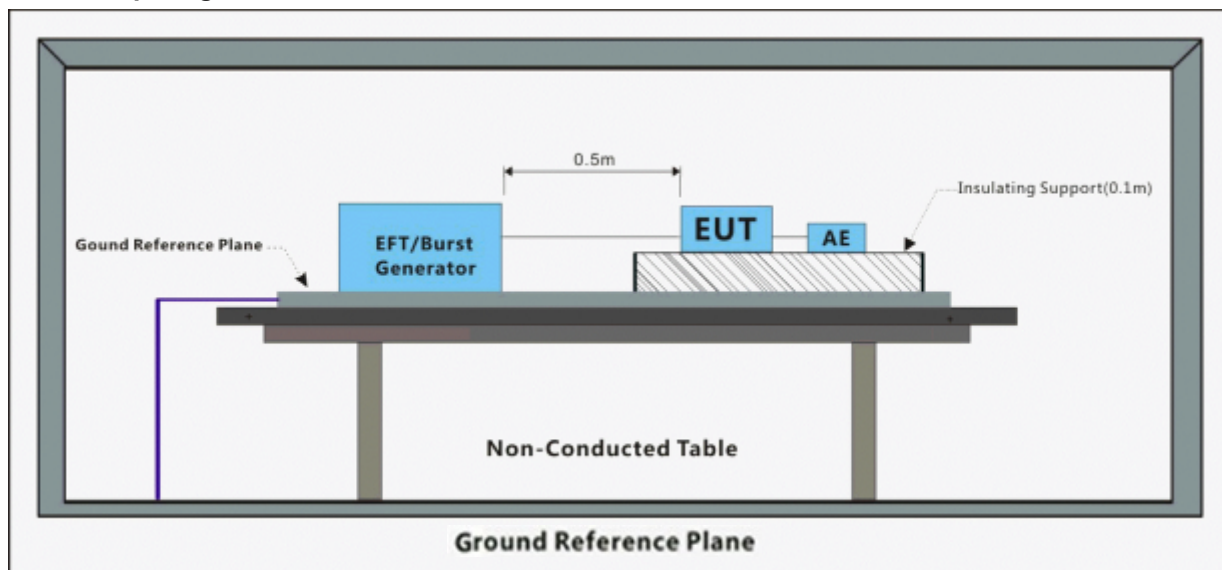
Temperature: 26 °C Humidity: 48 % RH Atmospheric Pressure: 1020 mbar

a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

Test Mode: b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

c: Test in idle mode.

7.3.2 Test Setup Diagram



7.3.3 Test Results:

For all models:

Test Line	Level (kV)	Polarity	Direct/Coupling	Result / Observations
AC power port	1	+	Direct	A
AC power port	1	-	Direct	A
Singal lines	0.5	+	Coupling	A
Singal lines	0.5	-	Coupling	A

Results:

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



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7.4 Surge at Power Port

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-5:2014
 Performance Criterion: B
 Interval: 60s between each surge
 No. of surges: 5 positive at 90°, 5 negative at 270°.

7.4.1 E.U.T. Operation

Operating Environment:

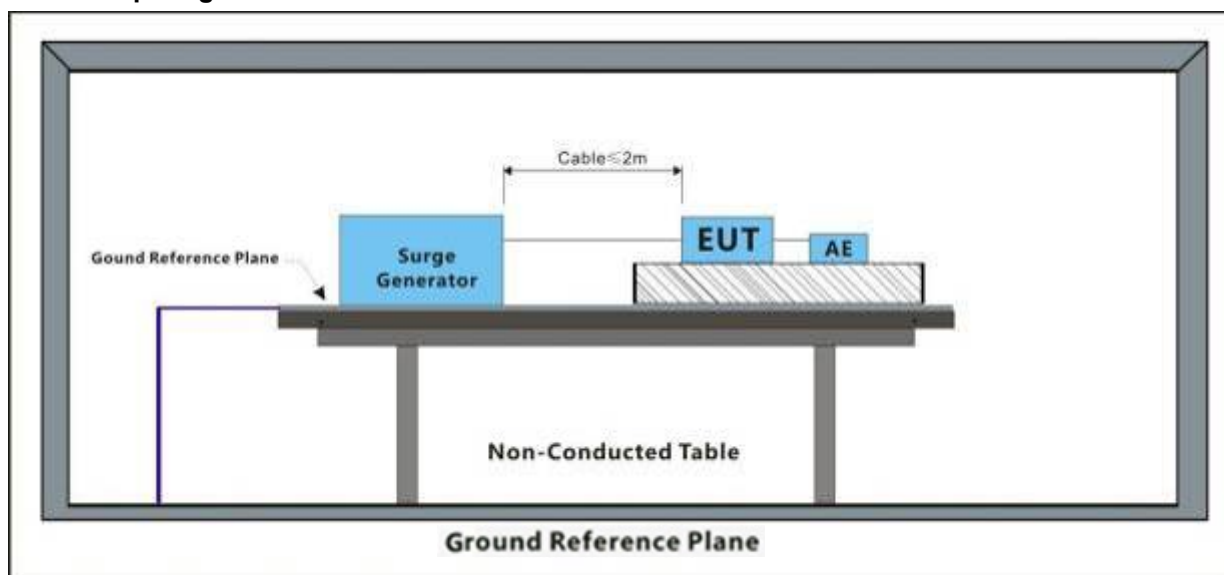
Temperature: 26 °C Humidity: 48 % RH Atmospheric Pressure: 1020 mbar

a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

Test Mode: b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

c: Test in idle mode.

7.4.2 Test Setup Diagram



7.4.3 Test Results:

For all models:

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	1	+	90°	A
L-N	1	-	270°	A
L-PE	2	+	90°	A
L-PE	2	-	270°	A
N-PE	2	+	90°	A
N-PE	2	-	270°	A

Results:

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



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7.5 Conducted Immunity at Power Port (150kHz-230MHz)

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-6:2014
 Performance Criterion: A
 Frequency Range: 0.15MHz to 230MHz
 Modulation: 80%, 1kHz Amplitude Modulation
 Step Size: 1%

7.5.1 E.U.T. Operation

Operating Environment:

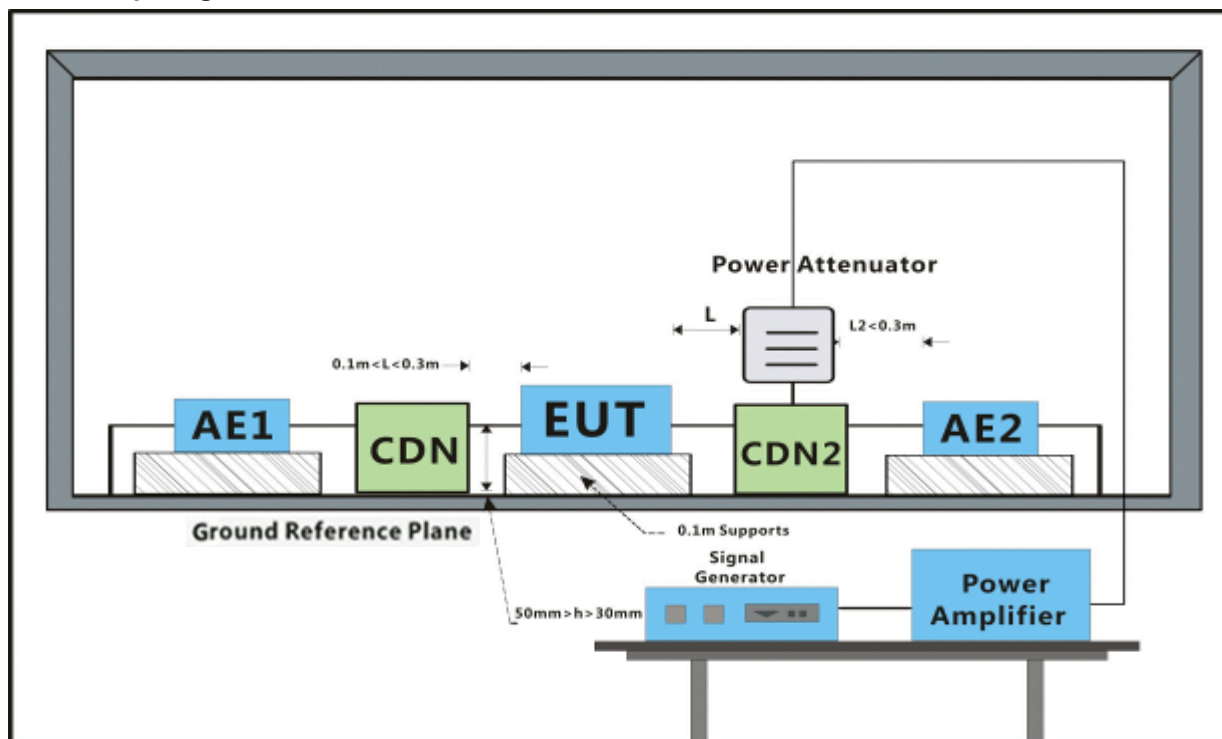
Temperature: 26 °C Humidity: 48 % RH Atmospheric Pressure: 1020 mbar

a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

Test Mode: b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

c: Test in idle mode.

7.5.2 Test Setup Diagram



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7.5.3 Test Results:

For all models:

Cable port	Level (Vrms)	Direct/Coupling	Dwell time	Result / Observations
AC power port	3	Direct	2s	A
Singal Lines	1	Coupling	2s	A

Results:

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



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7.6 Voltage Dips and Interruptions

Test Requirement: EN 55014-2:2015

Test Method: EN 61000-4-11:2004

Performance Criterion:

For 50Hz
 0% of UT (Supply Voltage) for 0.5 Periods: C;
 40% of UT for 10 Periods: C;
 70% of UT for 25 Periods: C

No. of Dips / Interruptions: 3 per Level

Time between dropout 10s

7.6.1 E.U.T. Operation

Operating Environment:

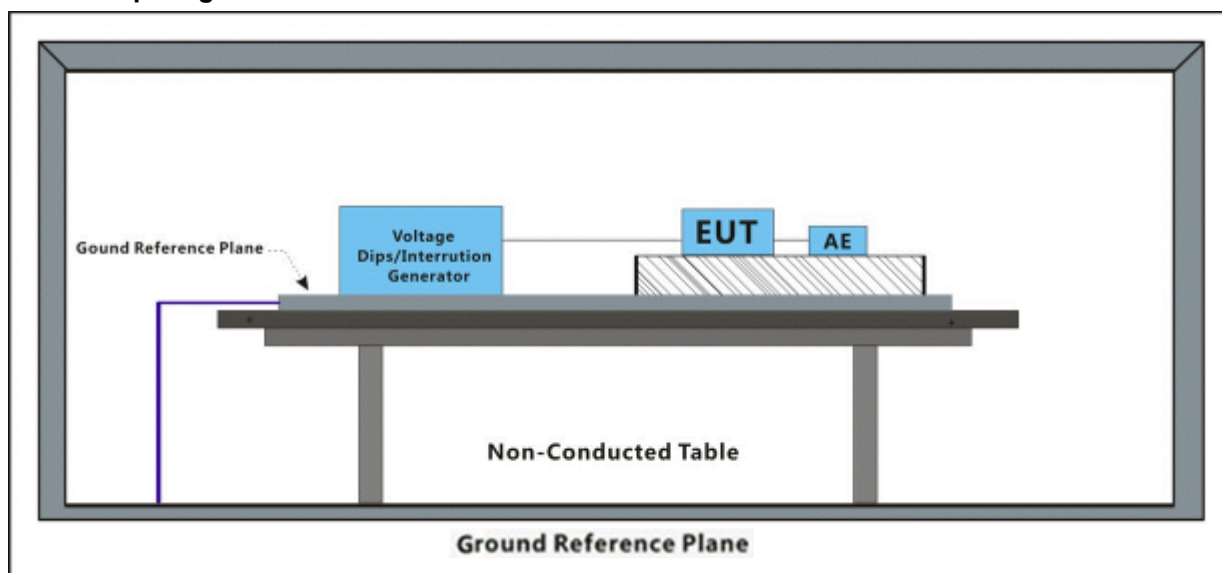
Temperature: 26 °C Humidity: 48 % RH Atmospheric Pressure: 1020 mbar

a: Test in cooling mode, keep swinging at high speed, and adjust the EUT temperature at the lowest temperature position.

Test Mode: b: Test in heating mode, keep swinging at high speed, and adjust the EUT temperature at the highest temperature position.

c: Test in idle mode.

7.6.2 Test Setup Diagram



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7.6.3 Test Results:

For Model A & C & D

For 50Hz

Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
0	0°	0.5 Periods	3	A
0	180°	0.5 Periods	3	A
40	0°	10 Periods	3	A
40	180°	10 Periods	3	A
70	0°	25 Periods	3	A
70	180°	25 Periods	3	A

Results:

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

For Model B

For 50Hz

Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
0	0°	0.5 Periods	3	A
0	180°	0.5 Periods	3	A
40	0°	10 Periods	3	B
40	180°	10 Periods	3	B
70	0°	25 Periods	3	A
70	180°	25 Periods	3	A

Results:

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

B: During testing, the outdoor unit stopped working, it could recover automatically after test.



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8 Photographs

8.1 Conducted Disturbance at Mains Terminals (150kHz-30MHz) Test Setup

For Model A



For Model B



For Model C



For Model D



8.2 Conducted Disturbance at Load Terminals and Additional Terminals Test Setup

For Model A



For Model B



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For Model C



For Model D



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8.3 Disturbance Power Test Setup

For Model A



For Model B



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For Model C



For Model D



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8.4 Discontinuous Disturbance (150kHz-30MHz) Test Setup

For Model A



For Model B



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8.5 Harmonic Current Emission Test Setup

For Model A



For Model B



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For Model C



For Model D



8.6 Voltage Fluctuations and Flicker Test Setup

For Model A



For Model B



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8.7 Electrostatic Discharge Test Setup

For Model A



For Model B



For Model C



For Model D



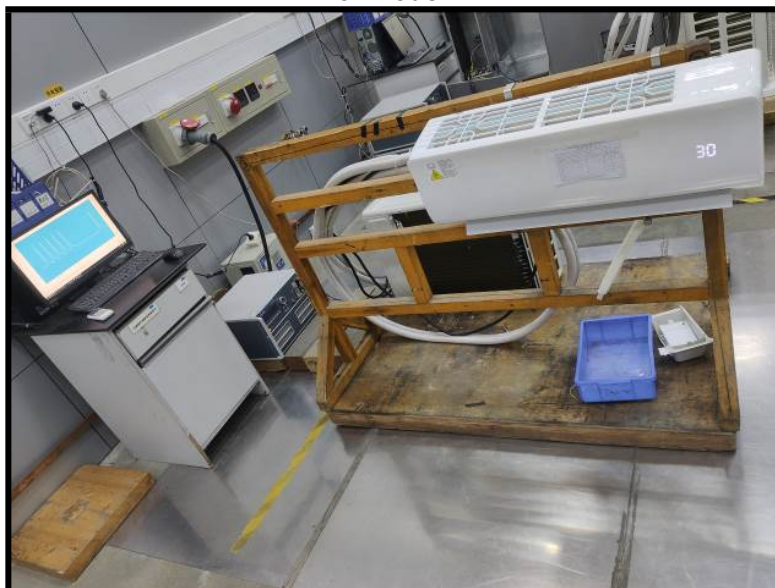
8.8 Electrical Fast Transients/Burst at Power Port Test Setup

Power port:

For Model A



For Model B



For Model C



For Model D



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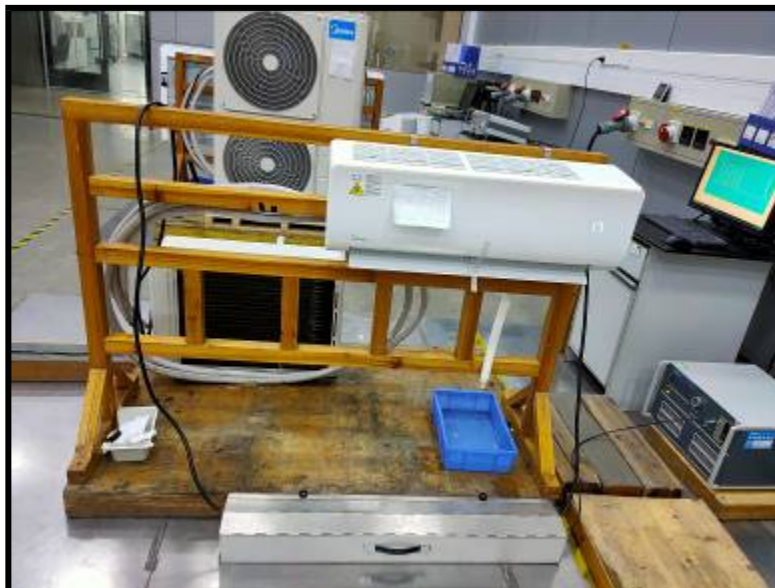
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Signal lines

For Model A



For Model B



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8.9 Surge at Power Port Test Setup

For Model A



For Model B



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8.10 Conducted Immunity at Power Port (150kHz-230MHz) Test Setup

Power port:

For Model A



For Model B



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Signal lines

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For Model C



For Model D



8.11 Voltage Dips and Interruptions Test Setup

For Model A



For Model B



For Model C



For Model D



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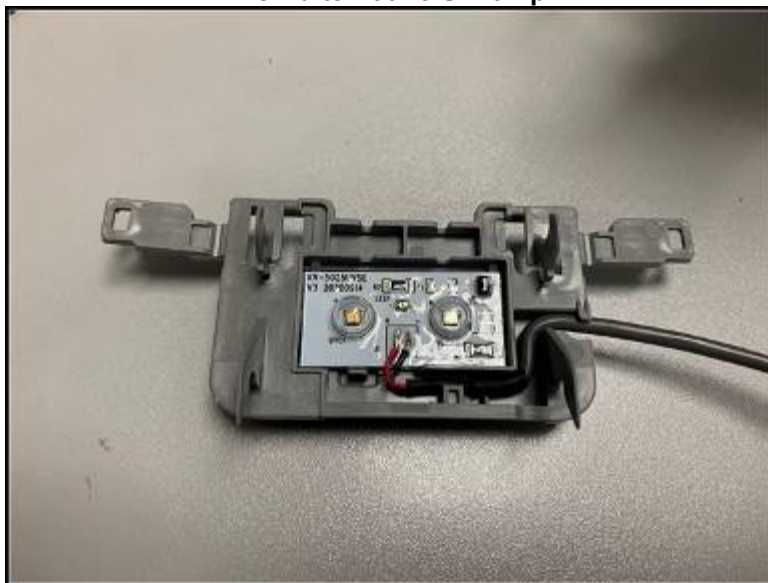
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SGS-CSTC Standards Technical Services Co., Ltd.
 Guangzhou Branch, Testing & Calibration Laboratory

No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

8.12 EUT Constructional Details

New alternative UV lamp





--End of Report--



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