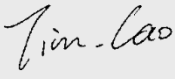
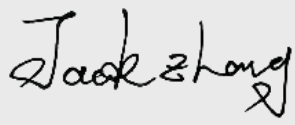




Test report No:
2250715R-RF-US-P06V01

FCC TEST REPORT & ISED TEST REPORT

Product Name	Docking Station (Triple)
Trademark	Datalogic
Model and /or type reference	DL363SD
FCC ID	U4GDL363SD
Applicant's name / address	Datalogic S.r.l. Via San Vitalino no.13,Calderara di Reno -40012(BO)-Italy
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart C ANSI C63.10: 2013
Verdict Summary	IN COMPLIANCE
Documented by (name / position & signature)	Tim Cao/Project Engineer 
Approved by (name / position & signature)	Jack Zhang/ Supervisor 
Date of issue	2022-10-21
Report Version	V1.2
Report template No	Template_FCC Part 15C-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	May. 24, 2022
Date (start test)	Jun 15, 2022
Date (finish test)	Jul. 10, 2022

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
T_x	: Transmitter
R_x	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2250715R-RF-US-P06V01	V1.0	Initial issue of report.	2022-10-12
2250715R-RF-US-P06V01	V1.1	P7 Add test equipment list for radiated emissions from 9 kHz to 30 MHz. P9 Add client device information. P30 Retest OBW	2022-10-19
2250715R-RF-US-P06V01	V1.2	P29 Modify the erection drawing.	2022-10-21

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C.
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
 - Chapter 1.1 General Description of the Item(s);
 - Chapter 1.2 Antenna Informaion;
 - Chapter 1.3 Channel List.

USED EQUIPMENT

AC Power Line Conducted Emission / TR1

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EMI Test Receiver	R&S	ESR7	102086	2022.03.05	2023.03.04
Two-Line V-Network	R&S	ENV216	101190	2021.12.31	2022.12.30
Two-Line V-Network	R&S	ENV216	101044	2022.03.12	2023.03.11
Current Probe	R&S	EZ-17	100678	2021.12.31	2022.12.30
50ohm Termination	SHX	TF2	07081402	2022.03.05	2023.03.04
50ohm Termination	SHX	TF2	07081403	2022.03.05	2023.03.04
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	TR1-TH	2022.07.03	2023.07.02
Coaxial Cable	Suhner	RG 223	TR1-C1	2022.03.30	2023.03.29
Coaxial Cable	Suhner	RG 223	TR1-C2	2022.03.30	2023.03.29
Dekra test software	Dekra	-	-	-	-

Radiated Emission(9KHz-30MHz,30MHz-1GHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2022.10.30	2022.10.29
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2021.12.03	2022.12.02
Temperature/Humidity Meter	RTS	RTS-8S	AC2-TH	2021.11.08	2022.11.07
Coaxial Cable	Huber+Suhner	RG 214	AC2-C	2022.03.31	2023.03.30
Loop Antenna	R&S	HFH2-Z2	833799/003	2022.04.15	2023.04.14
Dekra test software	Dekra	-	-	-	-

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95% .

Test item	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.80dB 150kHz~30MHz: 2.40dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 3.50 dB 300MHz~1GHz: 3.60 dB Vertical: 30MHz~200MHz: 3.60 dB 300MHz~1GHz: 3.50 dB
Occupied Bandwidth	$\pm 150\text{Hz}$

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name..... :	Docking Station (Triple)
Model No. :	DL363SD
Trademark :	Datalogic
FCC ID :	U4GDL363SD
Manufacturer..... :	Datalogic S.r.l.
Manufacturer address :	Via San Vitalino no.13,Calderara di Reno -40012(BO)-Italy

Operating Frequency Range :	119-140KHz
Type of Modulation..... :	ASK
Number of Channel :	1
Operating Temperature Range..... :	0°C ~ 40 °C

Rated power supply	Voltage and Frequency	
	<input type="checkbox"/>	AC: 220 – 240 V, 50/60 Hz
	<input type="checkbox"/>	AC: 110 – 130 V, 50/60 Hz
	<input checked="" type="checkbox"/>	DC: 12 V
	<input type="checkbox"/>	Battery: 12 Vdc
Mounting position	<input checked="" type="checkbox"/>	Table top equipment
	<input type="checkbox"/>	Wall/Ceiling mounted equipment
	<input type="checkbox"/>	Floor standing equipment
	<input type="checkbox"/>	Hand-held equipment
	<input type="checkbox"/>	Other: vehicle-mounted equipment
Test perimeter..... :	Product Name: MOBILE COMPITER Model:MEMOR 10 FCC ID: U4GDL35US IC:3862E-DL35US	

1.2 Antenna Information

Antenna model / type number.....:	N/A		
Antenna serial number	N/A		
Antenna Delivery	<input checked="" type="checkbox"/>	1TX + 1RX	
	<input type="checkbox"/>	2TX + 2RX	
	<input type="checkbox"/>	Others:.....	
Antenna technology.....:	<input checked="" type="checkbox"/>	SISO	
	<input type="checkbox"/>	MIMO	<input type="checkbox"/> CDD
			<input type="checkbox"/> Beam-forming
Antenna Type.....:	<input type="checkbox"/>	External	<input type="checkbox"/> Dipole
			<input type="checkbox"/> Sectorized
			<input type="checkbox"/> Ceramic Chip
	<input checked="" type="checkbox"/>	Internal	<input type="checkbox"/> PIFA
			<input type="checkbox"/> PCB
			<input checked="" type="checkbox"/> Others: Coil antenna
Antenna Gain	N/A		

1.3 Channel List

Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	130.0 kHz	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Note: The General Description of the Item , antenna information and Channel List for the EUT in clause 1 are provided and confirmed by the client.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

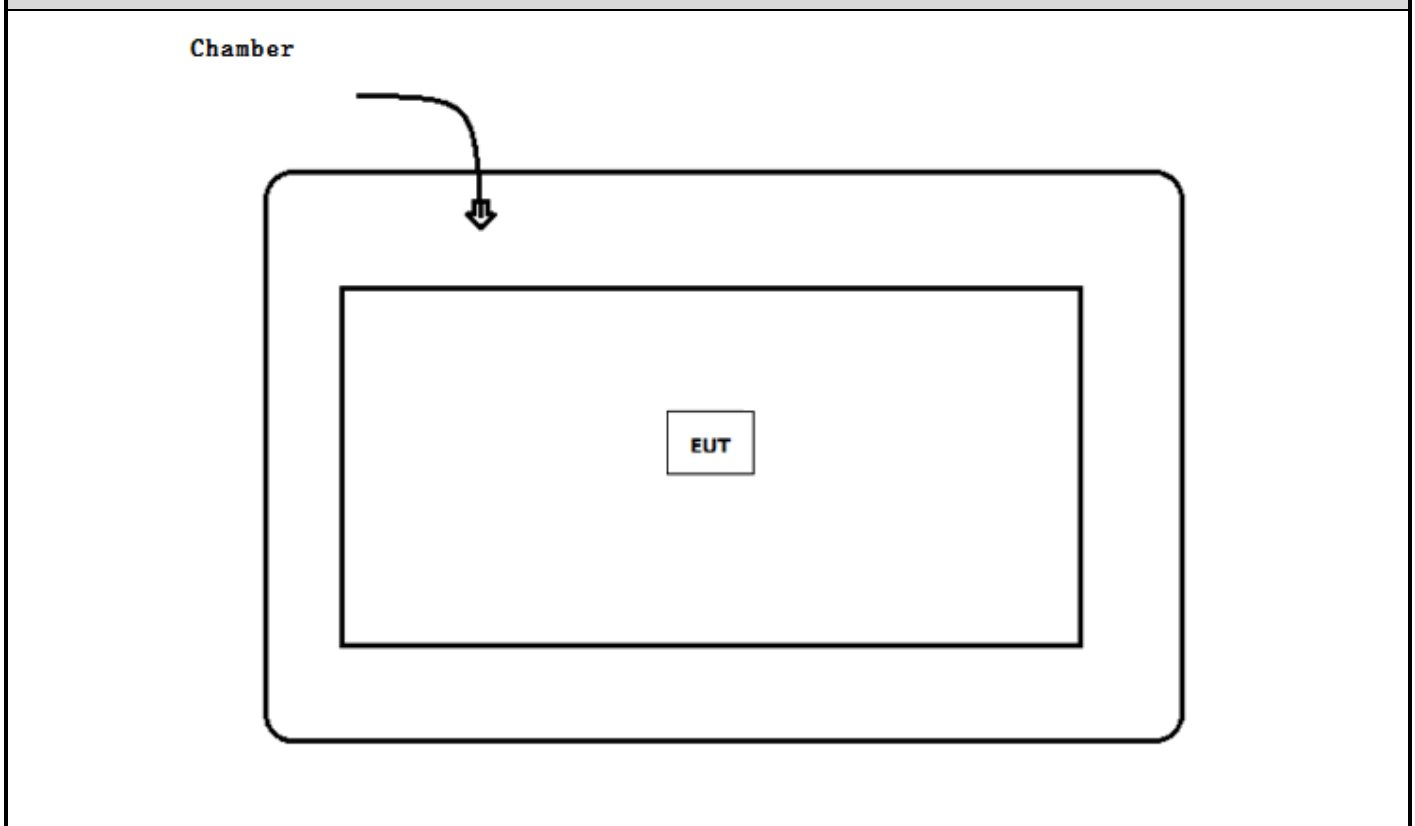
Test Mode For WPT	Mode 1: Transmit
-------------------	------------------

2.2 Auxiliary equipment / Test software for the EUT

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
N/A	N/A	N/A	N/A
software	Type / Version	Manufacturer	Supplied by
N/A	N/A	N/A	N/A

2.3 Test Configuration / Block diagram used for tests

Test setup Diagram- Radiated Test



2.4 Testing process

1	Setup the EUT as shown in Section 2.3.
2	Turn on the power of equipment.
3	Verify that the EUT works properly.

Note: We use the mobile phone provided by the customer as the load, we have verified the charging test under each power, and the worst state is placed in the report.

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart C	2021	Intentional Radiators
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

3.3 Overview of results

Requirement – Test case	Basic standard(s)	Verdict	Remark
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C Section 15.207	PASS	---
Field Strength of Spurious	FCC CFR Title 47 Part 15 Subpart C Section 15.209	PASS	---
Channel Bandwidth	FCC CFR Title 47 Part 15 Subpart C Section 15.215(c)	PASS	---
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C: Section 15.203	PASS	---

3.4 Test Facility

USA : FCC Designation Number: CN1199

4 TEST RESULTS

4.1 AC Power Line Conducted Emission

VERDICT: PASS

4.1.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207	
Frequency range [MHz]	Limit: QP [dB(μV) ¹⁾	Limit: AV [dB(μV) ¹⁾
0,15 - 0,50	66 - 56 ²⁾	56 - 46 ²⁾
0,50 - 5,0	56	46
5,0 - 30	60	50

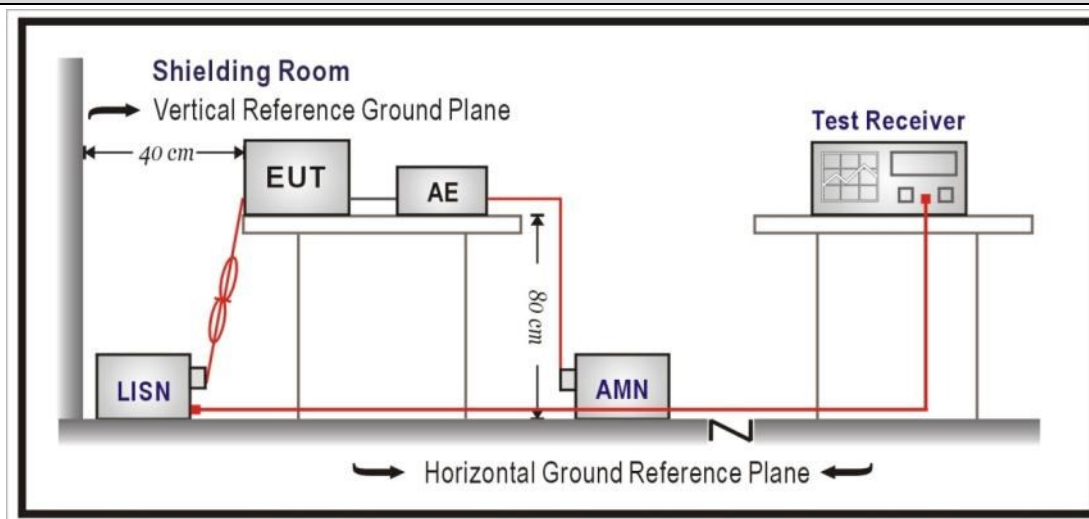
¹⁾ At the transition frequency, the lower limit applies.

²⁾ The limit decreases linearly with the logarithm of the frequency.

NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.

NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

4.1.2 Test Setup

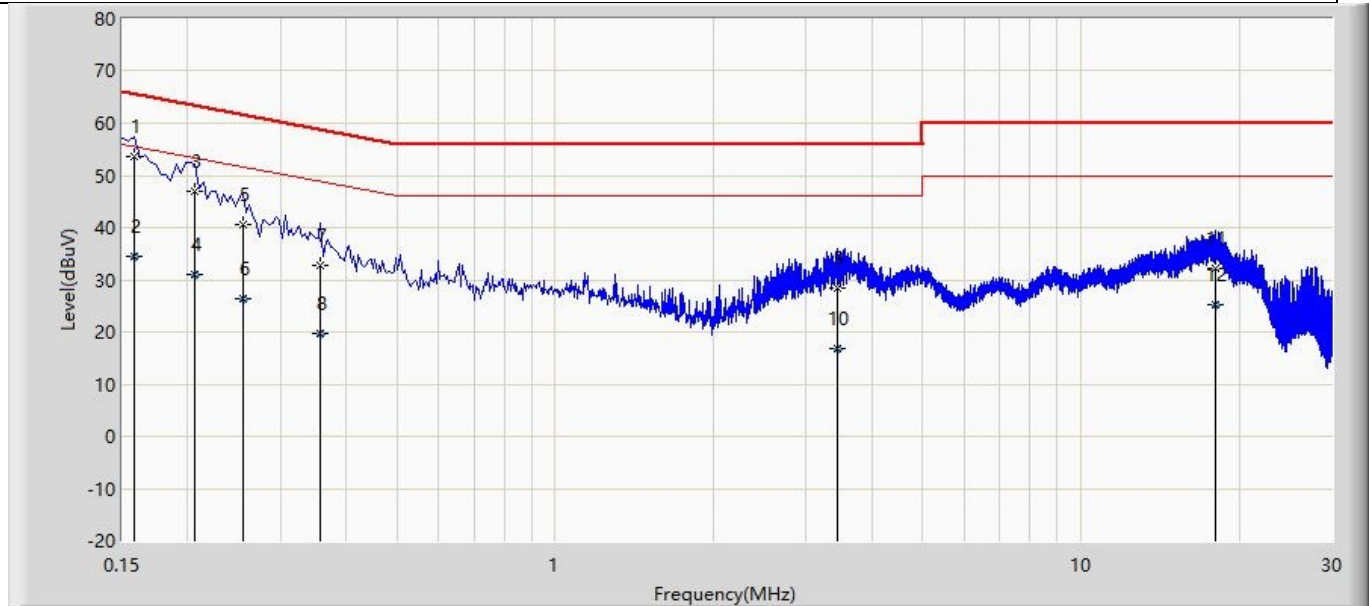


4.1.3 Test Procedure

References Rule	Chapter	Item
<input checked="" type="checkbox"/> ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

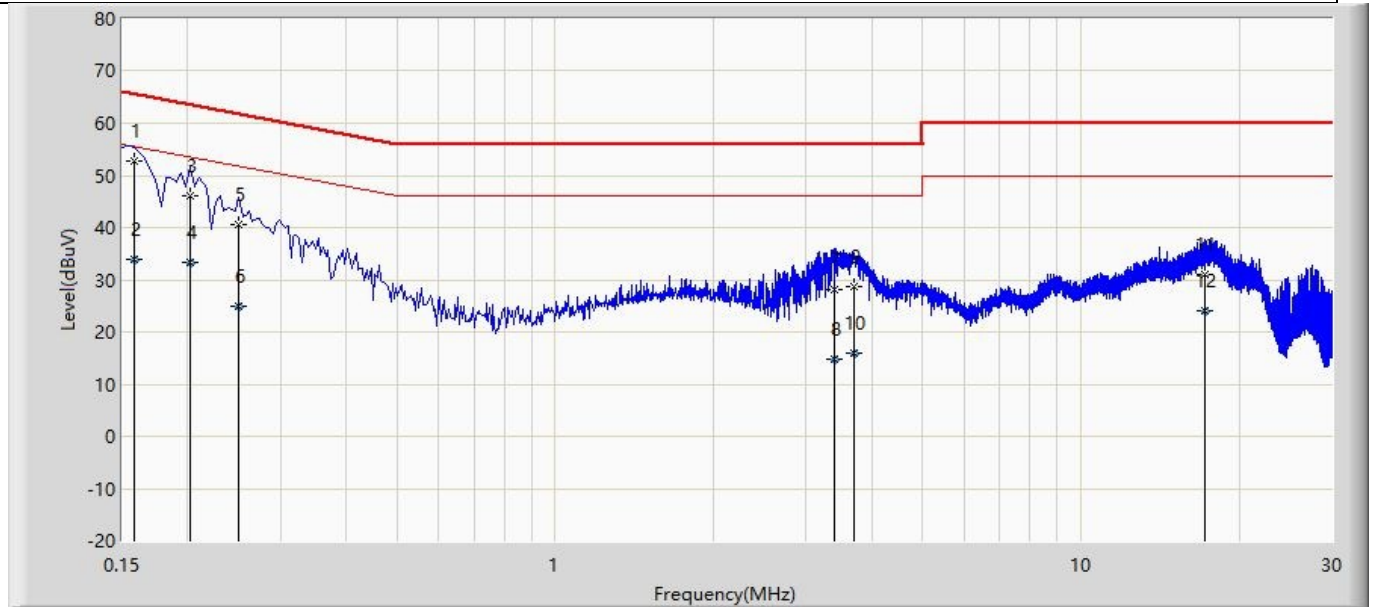
4.1.4 Test Data

Engineer: YU LIU	
Site: TR1	Time: 2022/06/30
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: DL363SD	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1	*	0.158	53.537	43.957	-12.031	65.568	9.552	0.028	0.000	QP
2		0.158	34.621	25.042	-20.947	55.568	9.552	0.028	0.000	AV
3		0.206	46.951	37.364	-16.414	63.365	9.560	0.027	0.000	QP
4		0.206	31.154	21.568	-22.211	53.365	9.560	0.027	0.000	AV
5		0.254	40.619	31.024	-21.006	61.625	9.563	0.032	0.000	QP
6		0.254	26.370	16.775	-25.256	51.625	9.563	0.032	0.000	AV
7		0.358	32.736	23.140	-26.039	58.775	9.570	0.025	0.000	QP
8		0.358	19.569	9.973	-29.206	48.775	9.570	0.025	0.000	AV
9		3.434	28.381	18.638	-27.619	56.000	9.628	0.114	0.000	QP
10		3.434	16.706	6.963	-29.294	46.000	9.628	0.114	0.000	AV
11		17.990	32.163	21.971	-27.837	60.000	9.922	0.270	0.000	QP
12		17.990	25.184	14.992	-24.816	50.000	9.922	0.270	0.000	AV

Engineer: YU LIU	
Site: TR1	Time: 2022/06/30
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: DL363SD	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1	*	0.158	52.696	43.126	-12.872	65.568	9.542	0.028	0.000	QP
2		0.158	33.903	24.333	-21.665	55.568	9.542	0.028	0.000	AV
3		0.202	46.148	36.571	-17.380	63.528	9.550	0.027	0.000	QP
4		0.202	33.250	23.673	-20.278	53.528	9.550	0.027	0.000	AV
5		0.250	40.436	30.849	-21.321	61.757	9.555	0.032	0.000	QP
6		0.250	24.821	15.234	-26.937	51.757	9.555	0.032	0.000	AV
7		3.386	28.103	18.365	-27.897	56.000	9.623	0.115	0.000	QP
8		3.386	14.853	5.116	-31.147	46.000	9.623	0.115	0.000	AV
9		3.702	28.738	18.985	-27.262	56.000	9.630	0.124	0.000	QP
10		3.702	15.970	6.216	-30.030	46.000	9.630	0.124	0.000	AV
11		17.158	31.062	20.860	-28.938	60.000	9.935	0.267	0.000	QP
12		17.158	23.929	13.727	-26.071	50.000	9.935	0.267	0.000	AV

Note:

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

4.2 Radiated emission	VERDICT: PASS
------------------------------	----------------------

4.2.1 Limit			
Standard	FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

Note 1: The tighter limits apply at the band edges.

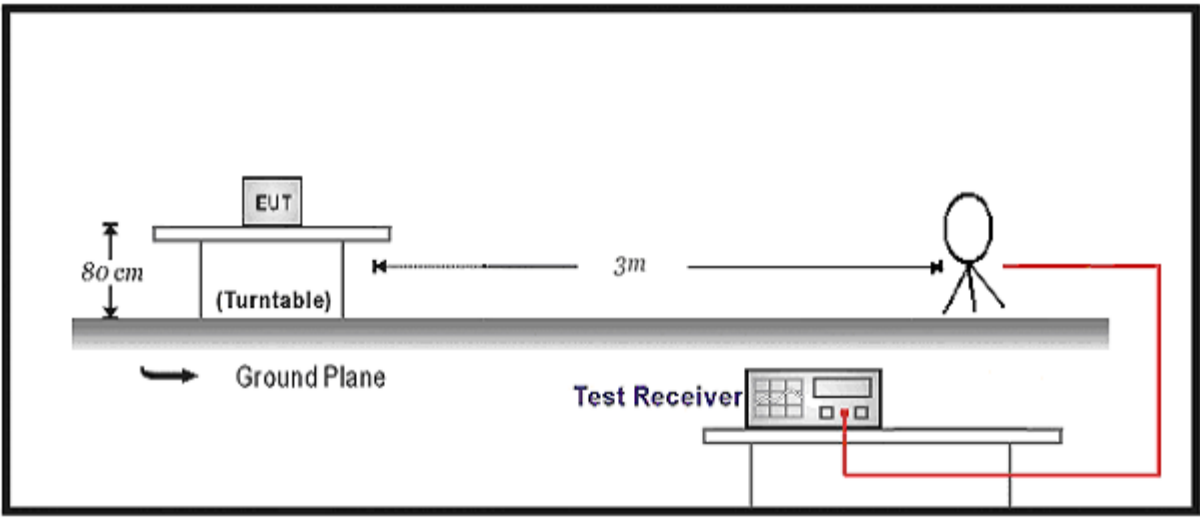
Note 2: Measurements were performed at 10m and the data was extrapolated to the specified measurement distance of 300m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2). Extrapolation Factor = $40 \log_{10}(300/10) = 59\text{dB}$ for example.

Measurements were performed at 10m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2). Extrapolation Factor = $40 \log_{10}(30/10) = 19\text{dB}$ for example.

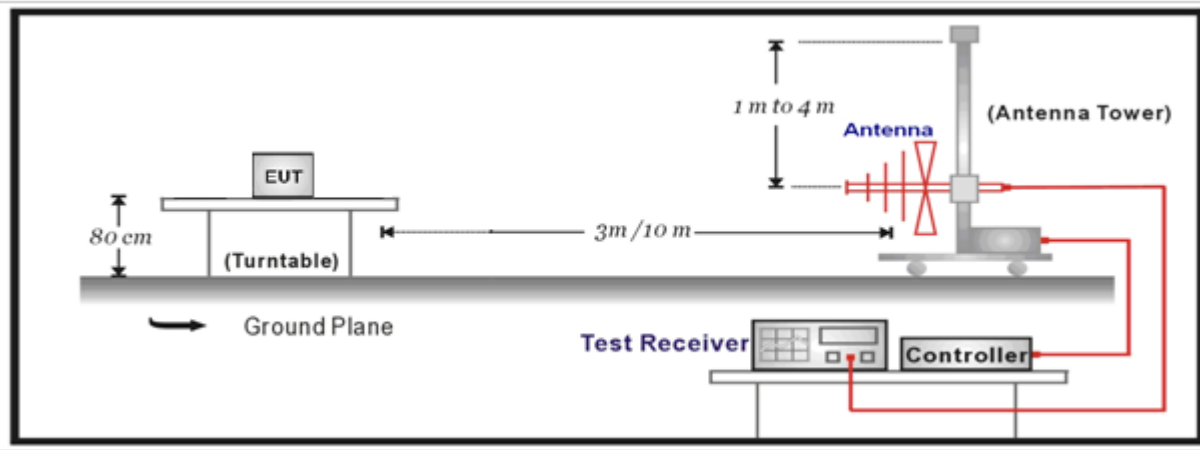
Note 3: All measurements were performed using a loop antenna. The antenna was positioned in three orthogonal positions (X front, Y side, Z top) and the position with the highest emission level was recorded.

4.2.2 Test Setup

Below 30MHz Test Setup:



30MHz-1GHz Test Setup:

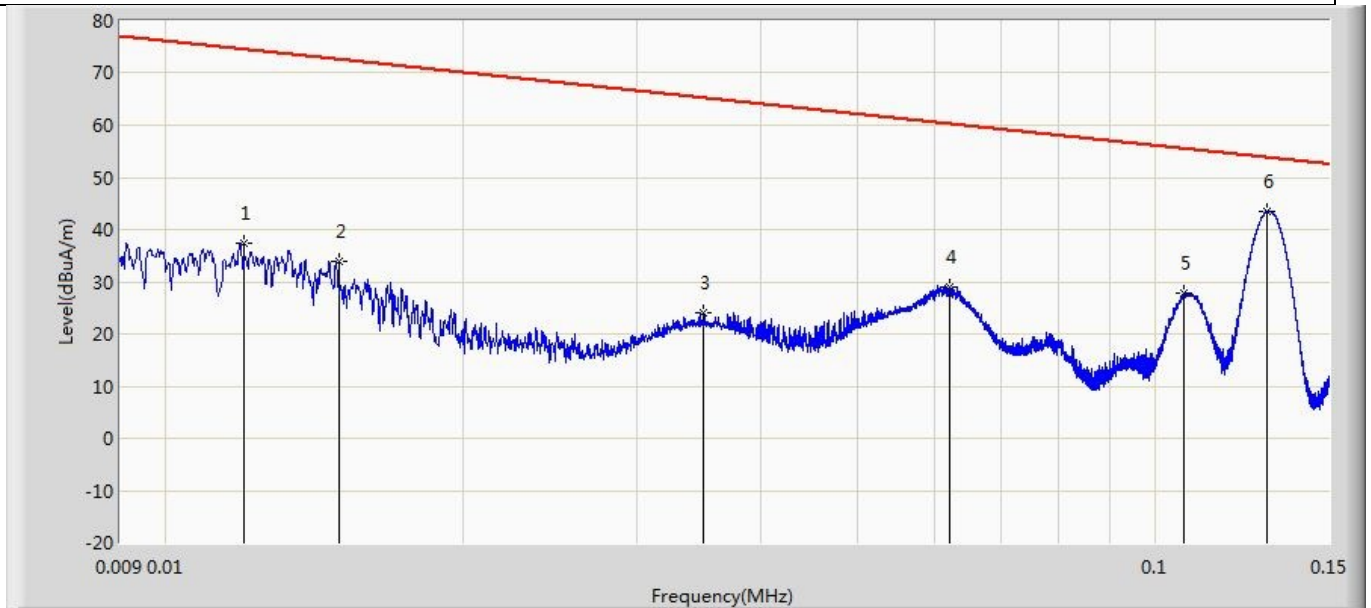


4.2.3 Test Procedure

	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.12	Emissions in restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.1	Radiated emission measurements
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.7	Radiated spurious emission test
	<input checked="" type="checkbox"/> ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	<input checked="" type="checkbox"/> ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	<input type="checkbox"/> ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.2.4 Test Data

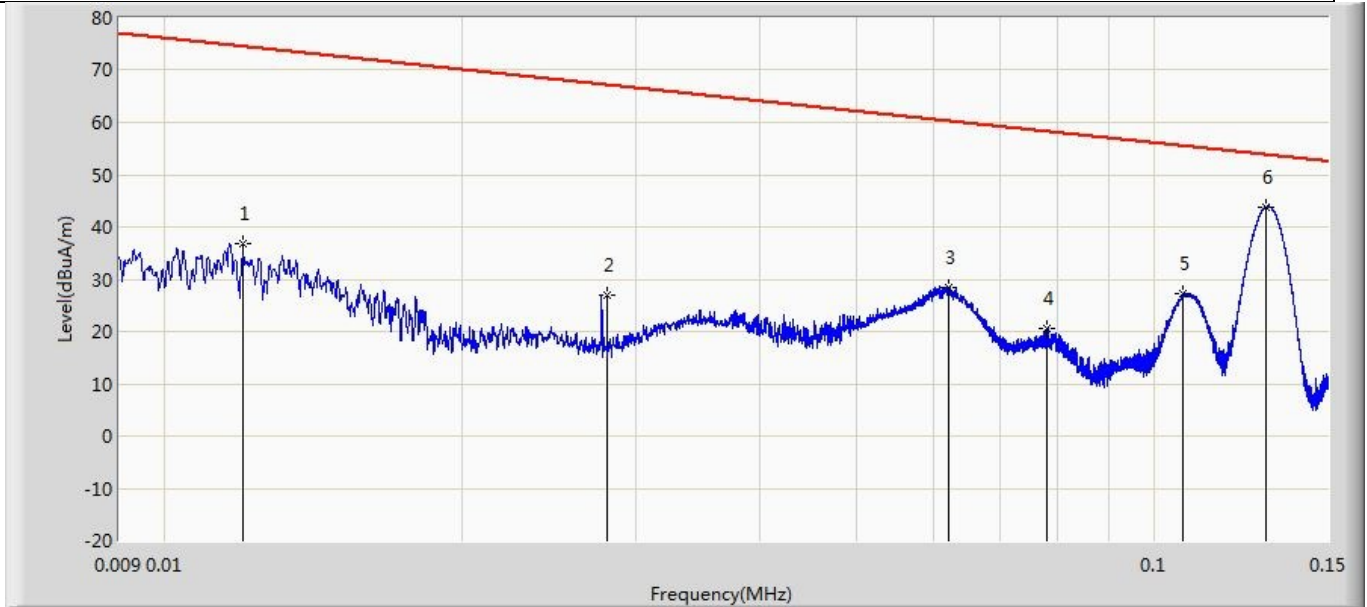
Profile: 2250715R	Page No.: 1
Engineer: Neil Liu	
Site: AC3	Time: 2022/06/30 - 13:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Horizontal
EUT: DL363SD	Power: AC 120V/60HZ
Note: Mode 1: Transmit	



No	Mark	Frequency (MHz)	Measure Level (dBuA/m)	Reading Level (dBuA)	Over Limit (dB)	Limit (dBuA/m)	Factor (dB)	Type
1		0.012	37.531	16.406	-36.972	74.503	21.125	PK
2		0.015	33.803	12.585	-38.763	72.565	21.218	PK
3		0.035	24.000	2.162	-41.210	65.210	21.838	PK
4		0.062	29.009	7.072	-31.237	60.246	21.937	PK
5		0.107	27.719	5.834	-27.790	55.509	21.885	PK
6	*	0.130	43.513	21.653	-10.306	53.819	21.860	PK

Note: Mark 4 is the fundamental emission.

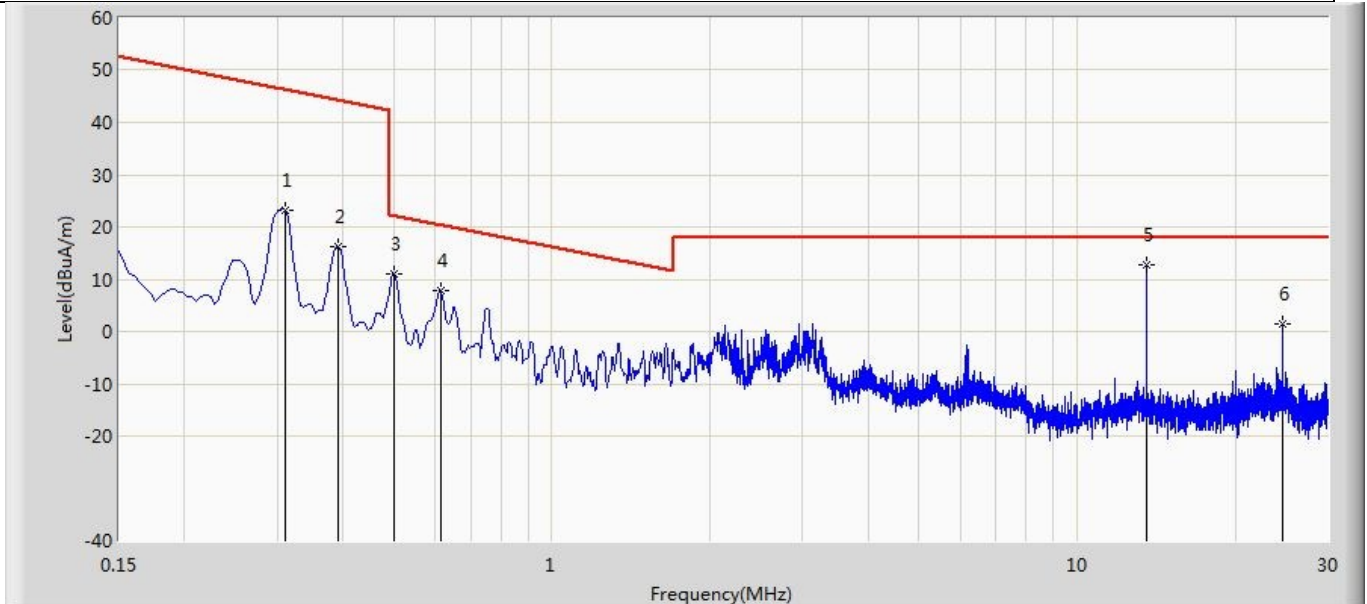
Profile: 2250715R	Page No.: 2
Engineer: Neil Liu	
Site: AC3	Time: 2022/06/30 - 19:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Vertical
EUT: DL363SD	Power: AC 120V/60HZ
Note: Mode 1: Transmit	



No	Mark	Frequency (MHz)	Measure Level (dBuA/m)	Reading Level (dBuA)	Over Limit (dB)	Limit (dBuA/m)	Factor (dB)	Type
1		0.012	36.694	16.069	-37.809	74.503	20.625	PK
2		0.028	26.869	5.748	-40.278	67.147	21.122	PK
3		0.062	28.319	6.882	-31.927	60.246	21.437	PK
4		0.078	20.459	-0.960	-37.794	58.253	21.419	PK
5		0.107	27.363	5.978	-28.146	55.509	21.385	PK
6	*	0.130	43.839	22.479	-9.980	53.819	21.360	PK

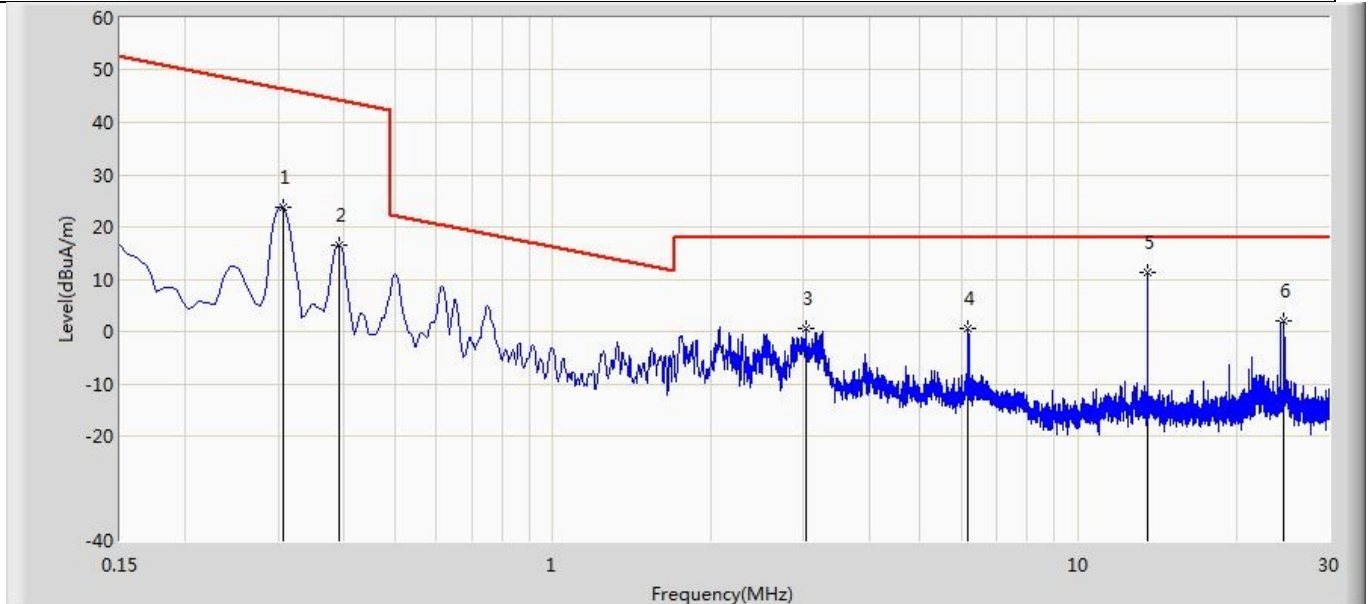
Note: Mark 3 is the fundamental emission.

Profile: 2250715R	Page No.: 3
Engineer: Neil Liu	
Site: AC3	Time: 2022/06/30 - 20:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Horizontal
EUT: DL363SD	Power: AC 120V/60HZ
Note: Mode 1: Transmit	



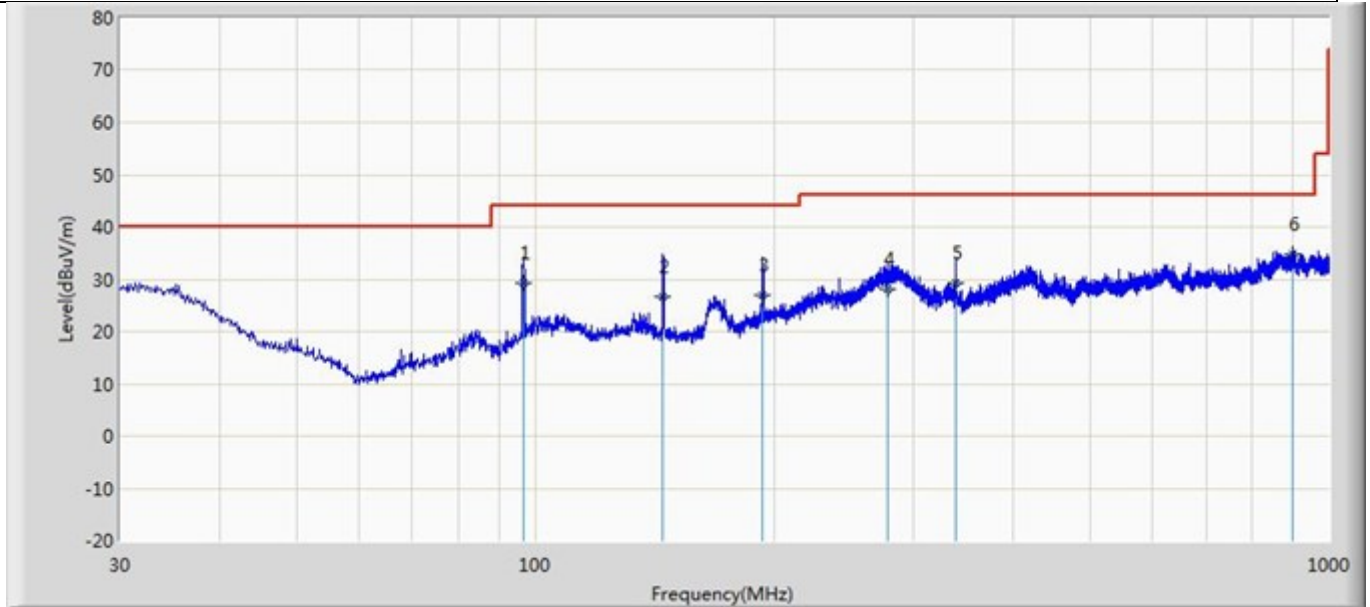
No	Mark	Frequency (MHz)	Measure Level (dBuA/m)	Reading Level (dBuA)	Over Limit (dB)	Limit (dBuA/m)	Factor (dB)	Type
1		0.310	23.146	1.465	-23.129	46.275	21.681	PK
2		0.393	16.285	-5.305	-27.930	44.215	21.590	PK
3		0.501	11.087	-10.376	-11.020	22.108	21.464	PK
4		0.613	7.964	-13.167	-12.396	20.360	21.131	PK
5	*	13.560	12.736	-8.316	-5.264	18.000	21.052	PK
6		24.578	1.507	-19.597	-16.493	18.000	21.104	PK

Profile: 2250715R	Page No.: 4
Engineer: Neil Liu	
Site: AC3	Time: 2022/06/30 - 20:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Vertical
EUT: DL363SD	Power: AC 120V/60HZ
Note: Mode 1: Transmit	



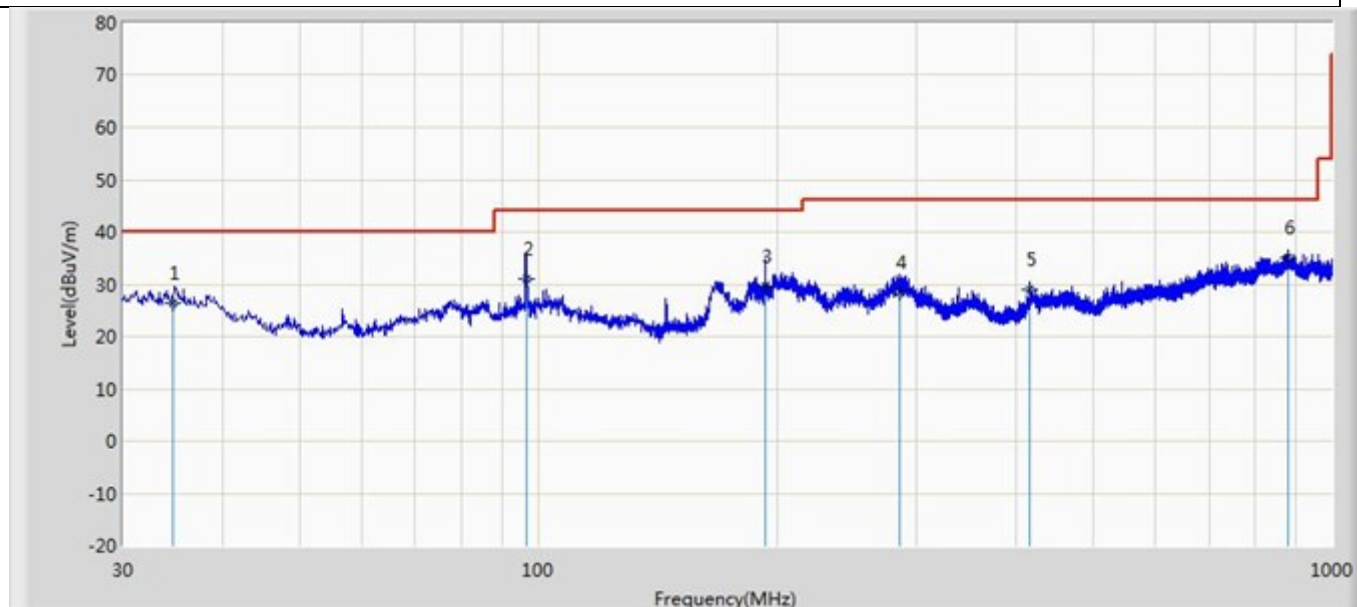
No	Mark	Frequency (MHz)	Measure Level (dBuA/m)	Reading Level (dBuA)	Over Limit (dB)	Limit (dBuA/m)	Factor (dB)	Type
1		0.307	23.725	2.542	-22.634	46.359	21.183	PK
2		0.393	16.467	-4.623	-27.748	44.215	21.090	PK
3		3.038	0.562	-19.763	-17.438	18.000	20.325	PK
4		6.180	0.453	-19.635	-17.547	18.000	20.088	PK
5	*	13.560	11.253	-9.299	-6.747	18.000	20.552	PK
6		24.578	2.004	-18.600	-15.996	18.000	20.604	PK

Profile: 2250715R	Page No.: 5
Engineer: Neil Liu	
Site: AC3	Time: 2022/06/30 - 20:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Horizontal
EUT: DL363SD	Power: AC 120V/60HZ
Note: Mode 1: Transmit	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		96.654	29.140	13.465	-14.860	44.000	8.909	6.766	0.000	156	254	QP
2		144.654	26.744	9.654	-17.256	44.000	10.098	6.991	0.000	287	157	QP
3		193.654	27.037	9.652	-16.963	44.000	10.185	7.200	0.000	165	252	QP
4		277.654	28.243	8.654	-17.757	46.000	12.077	7.512	0.000	123	321	QP
5		338.654	29.159	6.654	-16.841	46.000	14.794	7.711	0.000	126	120	QP
6	*	899.654	34.701	1.621	-11.299	46.000	23.904	9.175	0.000	252	150	QP

Profile: 2250715R	Page No.: 6
Engineer: Neil Liu	
Site: AC3	Time: 2022/06/30 - 20:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Vertical
EUT: DL363SD	Power: AC 120V/60HZ
Note: Mode 1: Transmit	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		34.654	26.358	3.650	-13.642	40.000	16.338	6.369	0.000	156	212	QP
2		96.654	31.152	10.654	-12.848	44.000	13.732	6.766	0.000	366	217	QP
3		193.654	29.533	7.654	-14.467	44.000	14.679	7.200	0.000	268	300	QP
4		285.654	28.491	3.351	-17.509	46.000	17.597	7.542	0.000	288	87	QP
5		416.654	29.005	2.650	-16.995	46.000	18.402	7.953	0.000	165	355	QP
6	*	881.546	35.107	1.546	-10.893	46.000	24.425	9.136	0.000	123	312	QP

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

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

Note 3: The orthogonal orientations (x/y/z) of the shielded loop antenna are evaluated, shown in the report is the worst data.

Note 4: dBμA/m = dBμV/m – 51.5

4.3 20dB Bandwidth

VERDICT: PASS

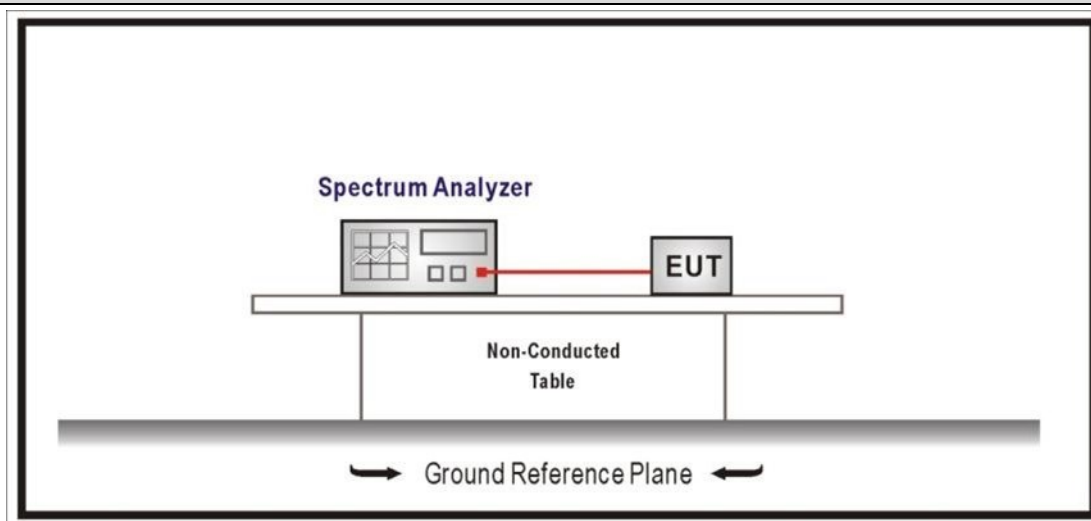
4.3.1 Limit

Standard

FCC Part 15 Subpart C

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.215(c), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.3.2 Test Setup

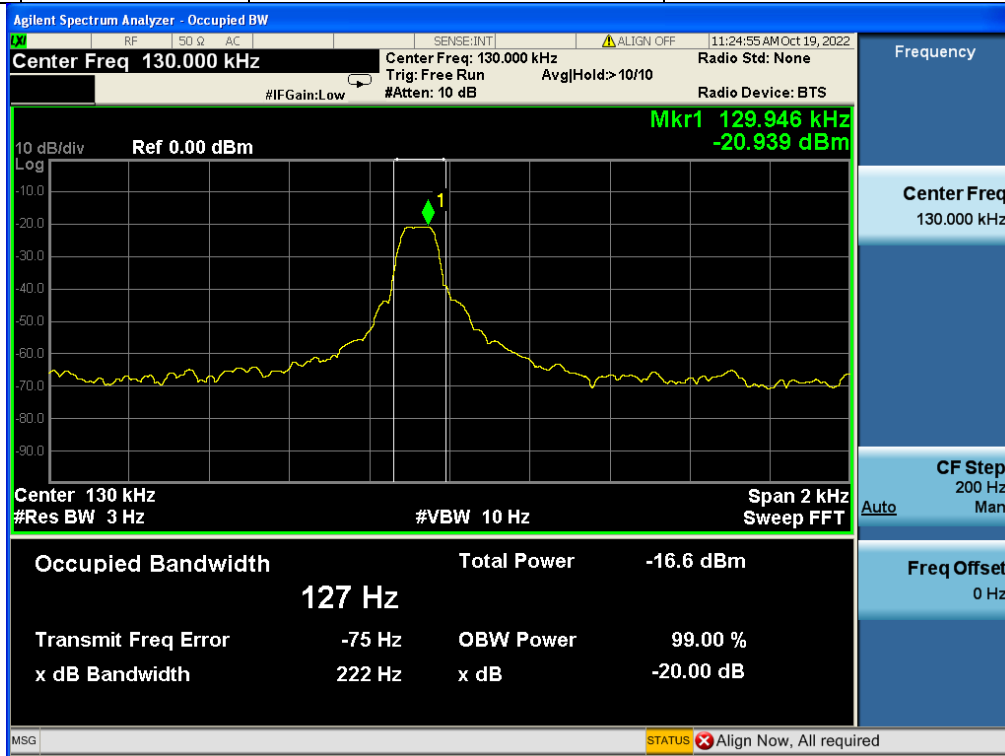


4.3.3 Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with the RBW 1%~5% of 20dBc bandwidth and the VBW three times of the RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3.4 Test Data

Mode	Test Freq. (kHz)	20dB Occupied Bandwidth (Hz)	99% Occupied Bandwidth (Hz)	Result
1	130.0	222	127	Pass



4.4 Antenna Requirement	VERDICT: PASS
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4.4.1 Limit:	
Standard	FCC Part 15 Subpart C Paragraph 15.203
<p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible LE party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or any electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed by LE, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible LE for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p>	

4.4.2 Antenna Connector Construction:	
<input checked="" type="checkbox"/>	The use of a permanently attached antenna
<input type="checkbox"/>	The antenna use of a unique coupling to the intentional radiator
<input type="checkbox"/>	The use of a nonstandard antenna jack or any electrical connector
Please refer to the attached document "Internal Photograph" to show the antenna connector.	

5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo pby LEase see appendix.

_____ The End _____