JVCKENWOOD TECHNOLOGIES SINGAPORE PTE LTD

EMC TEST REPORT		Reference - No.: 19CE-J09
		R&D
		Approved by: R&D STAFF ENG 23Jul18 08:49 ADRIAN TAN
		Measured by: R&D ELECTRICAL 20Jul18 11:09 SARAH

Date of Issue: 10 July, 2018

1 Category: DMR

2 EUT Model: KD-X262

3 Type: E Stage: PP

4 Serial Number
(1) 113X0016 (2) (3)

JKTS Model Grouping List

Type	KWD Model Grouping	Remark(s)
-	-	-

5 Comments: -

6 Measurement Result: Margin [√] >5dB

7 **EMC Measurement Standard**

	EMC Regulation	Disturbance Voltage at Antenna Terminal	Radiated Emission) (1 Meter)	Radiated Emission (3 Meter)	Conducted Emission & Immunity (Transient)	Immunity	
						S1 / S2b	ESD
	FCC Part 15 Subpart. B (US : FCC) ICES 003 Class B						
	CISPR 13 (Asia & others)						
	AS/NZS (CISPR 32) (Aust: RCM Mark) CISPR 32 (Asia & others) EN55032 : 2012 + AC: 2013 / Class B (E						
O	EN50498 : 2010 (Europe : CE) EN55020 : 2007+A11 : 2011 (CE)		O P2-P7		O P8-P17	O P18-P40	O P41-P48
	CNS13439 (Taiwan: BSMI)						
	KN20*, KN32 & KN41 (Korea : KC)						

Test Matrix Table for Disturbance Radiation (1 Meter)

Model Name:	KD-X262
Stage:	PP
Serial No:	113X0016
Measured by:	SARAH
Date:	18-Jul-18
Condition:	APPLICATION
Standard:	EN50498

Media used:

DVD / CD Disc:	-
USB device:	EMC-3 imation USB 2.0 Midi Flash Drive
USB cable:	CA-U1EX USB cable
iPod device:	-
iPod cable:	-
SD Card:	-
Bluetooth:	-

Tuner Media	FM 87.5MHz	FM97.9MHz	FM 108.0MHz		
Record:	**O**	**O**	**O**		
DAB Media: **Worst mode:CD (Band III: 9D)**	USB (Band III: 5A)	ITOUCH(Band III: 13F)	FM87.5MHz	FM108.0MHz	
Record:					
CD / DVD / SD Media:	CTS1000 (Tr.1, 1kHz)	TDVP-501 (T2 C2, Colorbar w/ 1kHz))	*SD (Tr.1, 1kHz)		
Record:					
Other Media:	†2 iPOD / iTOUCH PlayBack	USB PlayBack	BT(playback)		
Record:		**O**			
FRONT Media	Front USB (Rear BT)	Front BT (Rear iTouch)	Front iTouch (Rear BT)	Front iPod Video(Rear BT)	
Record:					
REAR Media	Rear USB (Front BT)	Rear BT (Front iPod Video)	Rear iTouch (Front BT)	Rear iPod Video(Front BT)	
Record:					

•All video playback are using color bar with 1kHz tone.

Note:

KCA-iP22F / KS-U30 / KCA-iP202 video cable used **ONLY** on JVC & KENWOOD MM model.

1) iTouch is used for measurement setup and BT pairing.

2) For EUT with Dual USB(1 & 2)ports, thumbdrive is connected without extension cable.

3) Measurement setup for USB ports is **only applicable on Tuner / CD / DVD / SD source** as follows:

Single USB port termination: iTouch (iPOD ready models), else USB thumbdrive

Dual USB ports termination: Front or Rear USB 1 → iTouch , Rear or Rear USB 2 → BT Dongle

* **SD Card and Disc** must be taken out when checking for Tuner Media & Other Media.

†2 For **JVC** "iPod USB" Measurement, iPod / iTouch device must be connected **using Apple's USB cable.**

†2 For **KENWOOD** "iPod USB" Measurement, iPod / iTouch cable connected **using KWD black USB cable**.

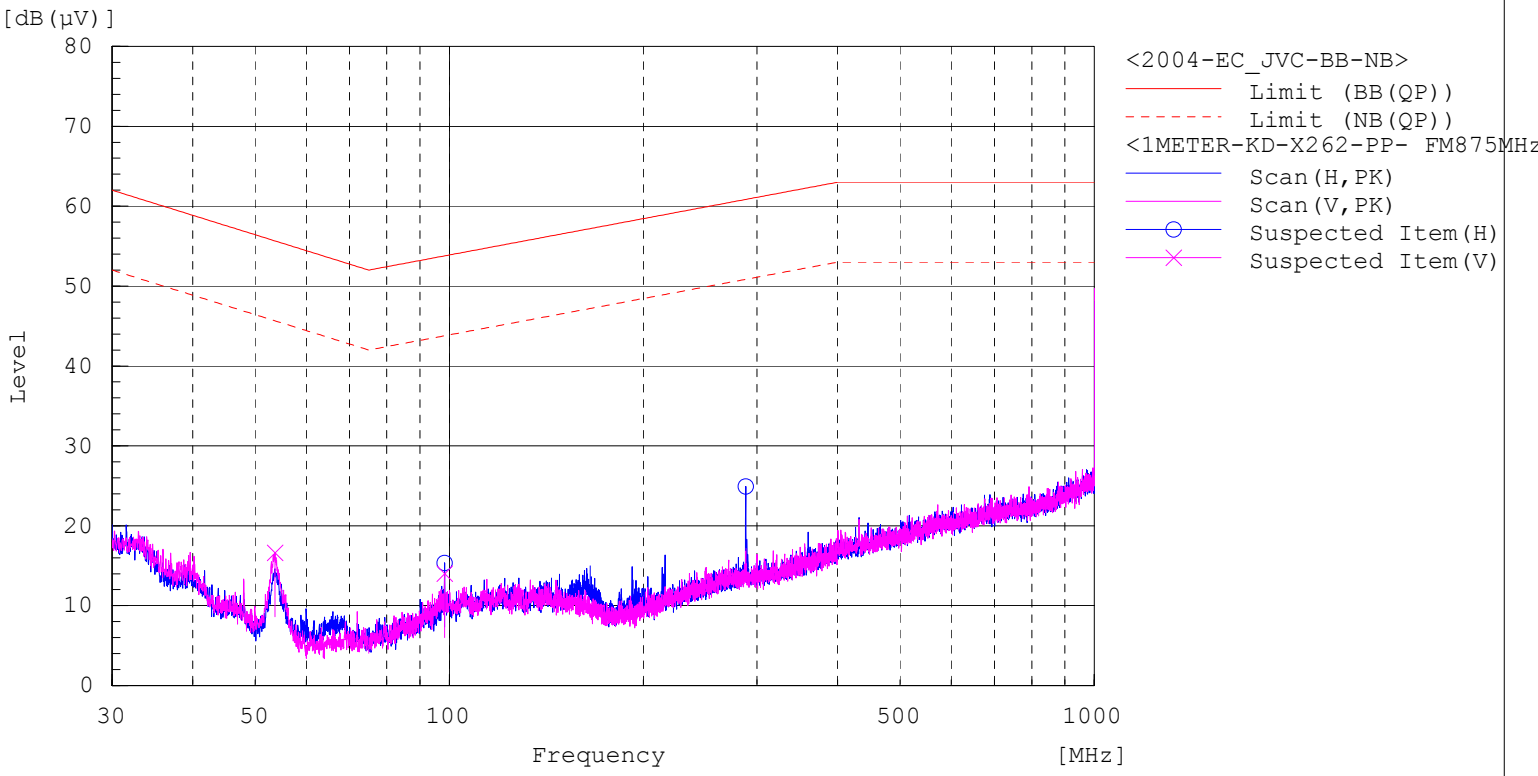
Remark: For models that supports AV-USB connection, ipod unit is used as the playback source.

JKTS Singapore
EMC TEST SITE

<<Radiated Electromagnetic Emissions (1m)>> 18 July,2018 15:48
1METER-KD-X262-PP- FM875MHz.dat

Model Name : KD-X262
Serial No. : 113X0016
Description : DIGITAL MEDIA RECEIVER
Tester : SARAH
Power Supply : DC 12V

Standard : EN50498
Temp./Humi. : 25 deg C / 44 %
Source : FM 87.5MHz
Stage : PP
:



Spectrum Selection

No.	Frequency [MHz]	(P)	Reading [dB(µV)]	c.f [dB]	Result PK [dB(µV)]	Limit BB(QP) [dB(µV)]	Limit NB(QP) [dB(µV)]	Margin BB(QP) [dB]	Margin NB(QP) [dB]
1	288.037	H	37.9	-13.0	24.9	60.8	50.8	35.9	25.9
2	98.331	H	32.4	-17.1	15.3	53.8	43.8	38.5	28.5
3	53.636	V	36.8	-20.2	16.6	55.7	45.7	39.1	29.1
4	98.281	V	31.1	-17.1	14.0	53.8	43.8	39.8	29.8

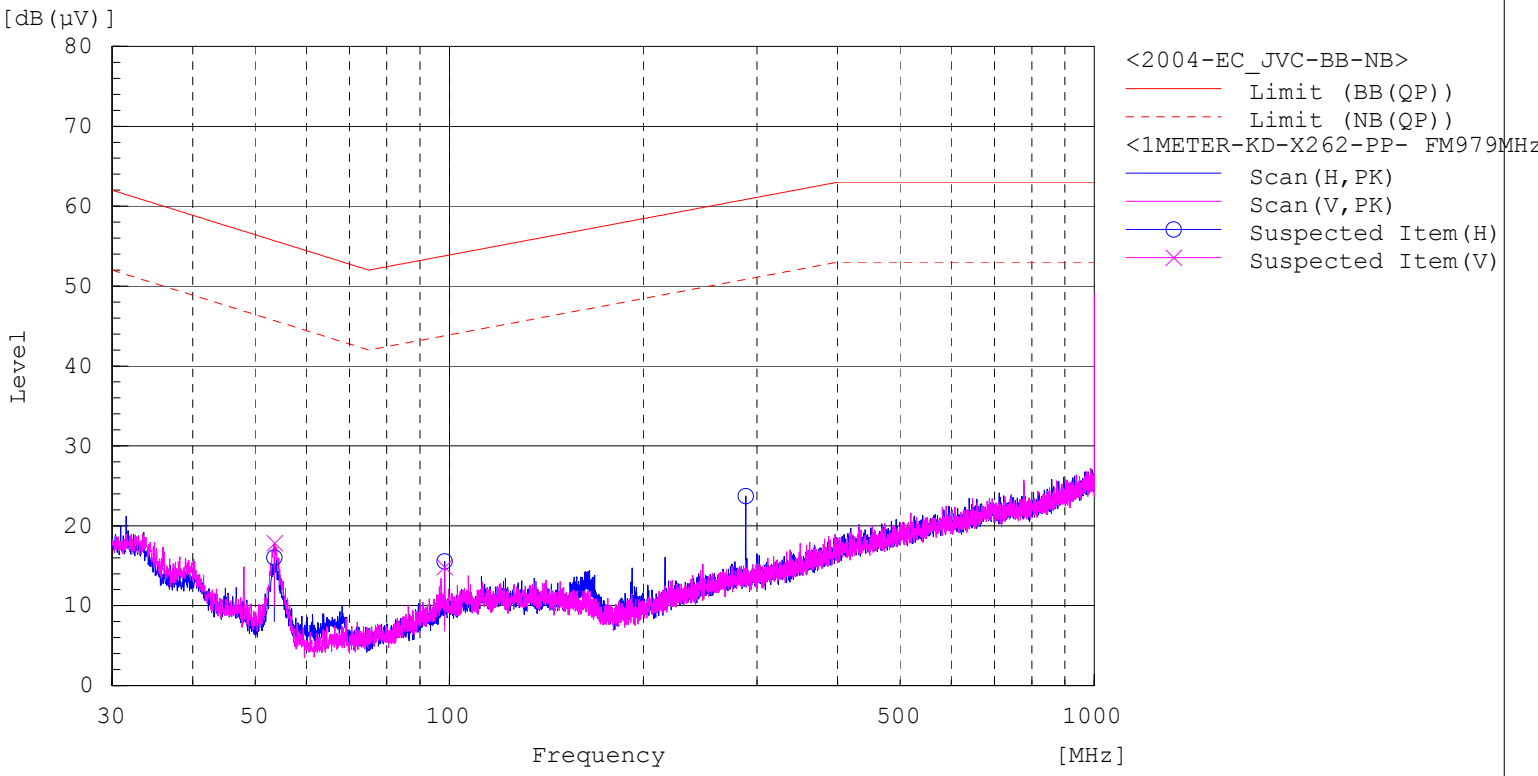
JKTS Singapore
EMC TEST SITE

<<Radiated Electromagnetic Emissions (1m)>>

18 July,2018 15:58
1METER-KD-X262-PP- FM979MHz.dat

Model Name : KD-X262
Serial No. : 113X0016
Description : DIGITAL MEDIA RECEIVER
Tester : SARAH
Power Supply : DC 12V

Standard : EN50498
Temp./Humi. : 25 deg C / 44 %
Source : FM 97.9MHz
Stage : PP
:



Spectrum Selection

No.	Frequency [MHz]	(P)	Reading [dB(µV)]	c.f [dB]	Result PK [dB(µV)]	Limit BB(QP) [dB(µV)]	Limit NB(QP) [dB(µV)]	Margin BB(QP) [dB]	Margin NB(QP) [dB]
1	288.037	H	36.7	-13.0	23.7	60.8	50.8	37.1	27.1
2	53.586	V	38.0	-20.2	17.8	55.7	45.7	37.9	27.9
3	98.281	H	32.6	-17.1	15.5	53.8	43.8	38.3	28.3
4	98.281	V	31.9	-17.1	14.8	53.8	43.8	39.0	29.0
5	53.535	H	36.2	-20.2	16.0	55.7	45.7	39.7	29.7

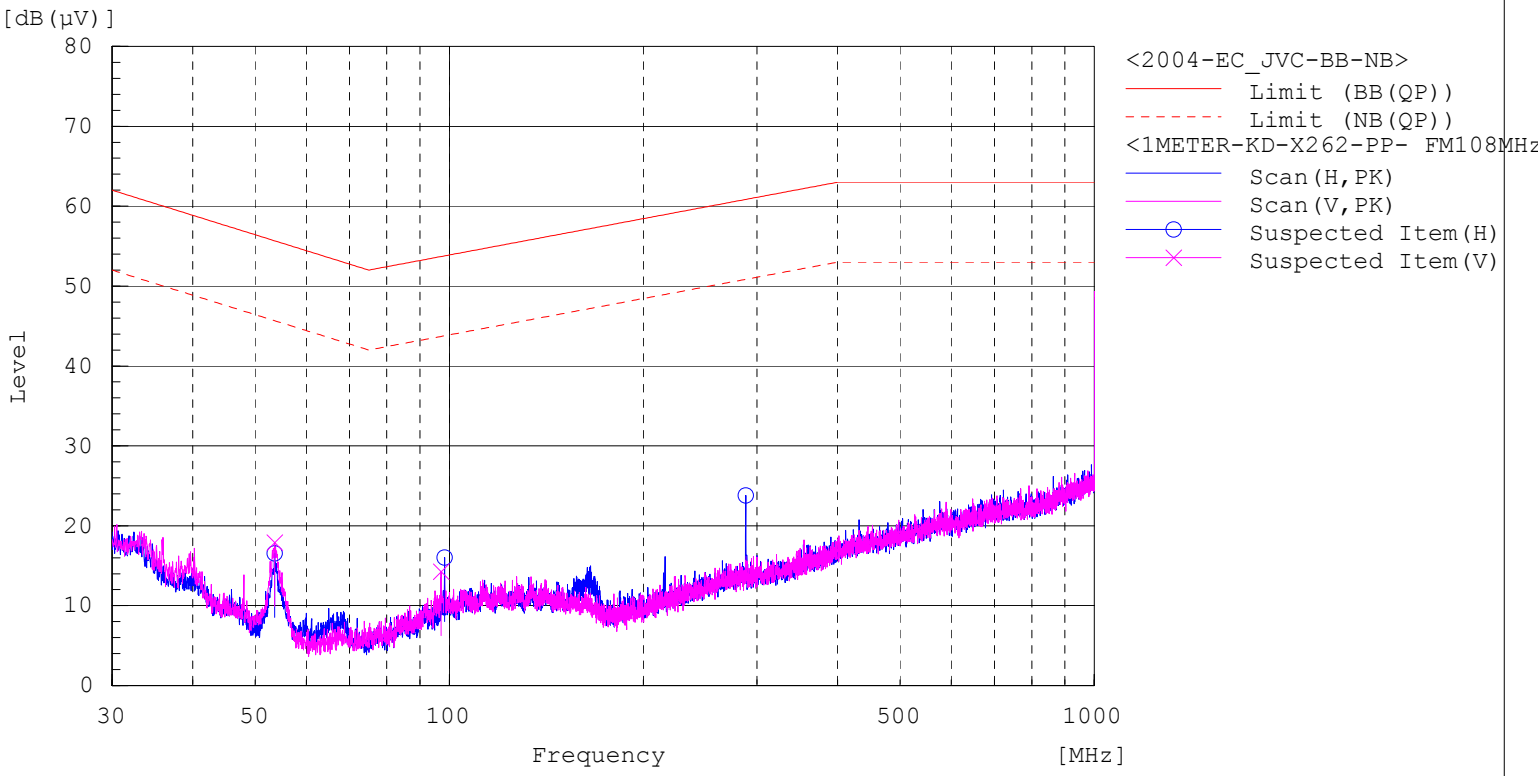
JKTS Singapore
EMC TEST SITE

<<Radiated Electromagnetic Emissions (1m)>>

18 July,2018 16:08
1METER-KD-X262-PP- FM108MHz.dat

Model Name : KD-X262
Serial No. : 113X0016
Description : DIGITAL MEDIA RECEIVER
Tester : SARAH
Power Supply : DC 12V

Standard : EN50498
Temp./Humi. : 25 deg C / 44 %
Source : FM 108MHz
Stage : PP
:



Spectrum Selection

No.	Frequency [MHz]	(P)	Reading [dB(µV)]	c.f [dB]	Result PK [dB(µV)]	Limit BB(QP) [dB(µV)]	Limit NB(QP) [dB(µV)]	Margin BB(QP) [dB]	Margin NB(QP) [dB]
1	288.037	H	36.8	-13.0	23.8	60.8	50.8	37.0	27.0
2	98.281	H	33.1	-17.1	16.0	53.8	43.8	37.8	27.8
3	53.586	V	38.1	-20.2	17.9	55.7	45.7	37.8	27.8
4	53.586	H	36.8	-20.2	16.6	55.7	45.7	39.1	29.1
5	97.119	V	31.5	-17.3	14.2	53.7	43.7	39.5	29.5

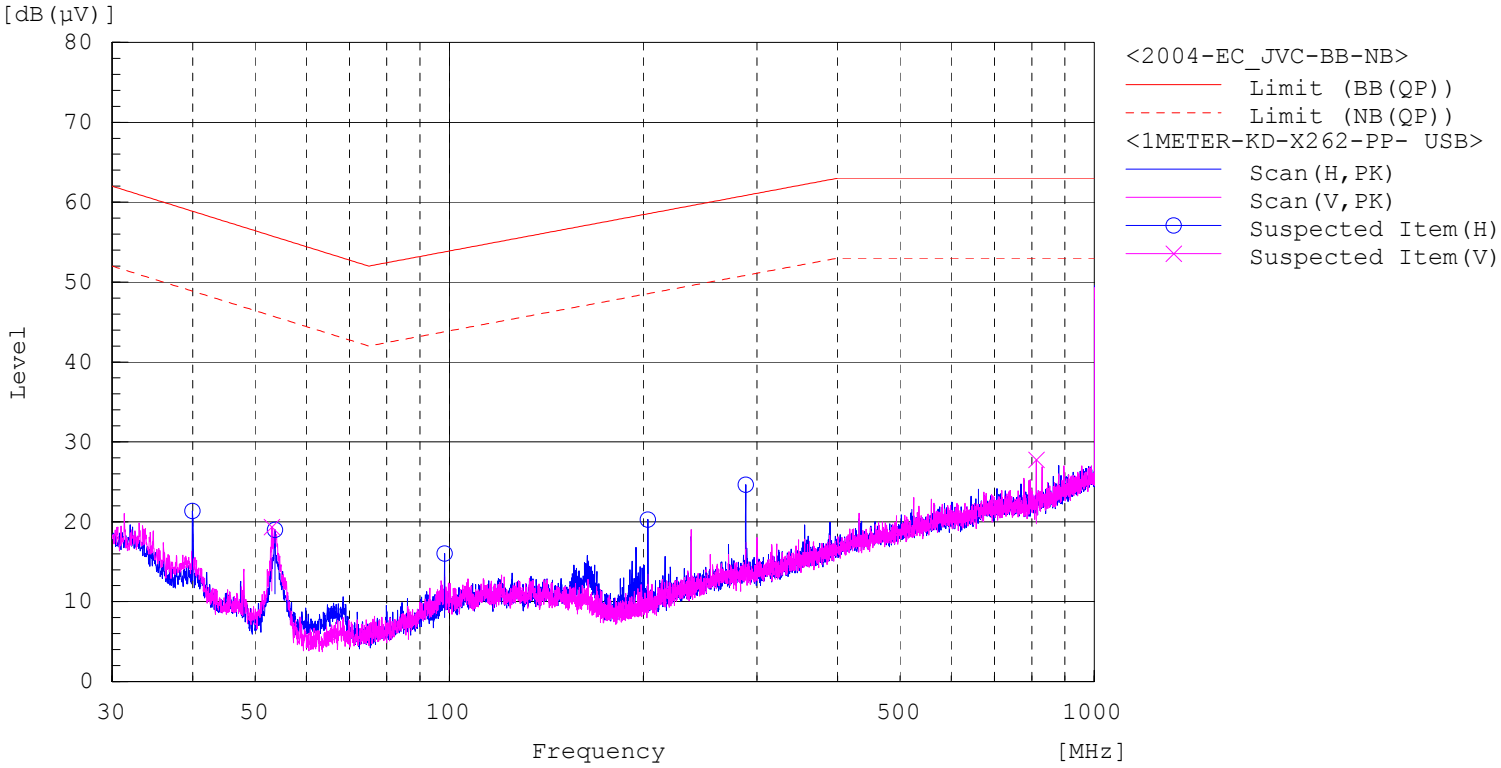
JKTS Singapore
EMC TEST SITE

<<Radiated Electromagnetic Emissions (1m)>>

18 July,2018 15:38
1METER-KD-X262-PP- USB.dat

Model Name : KD-X262
Serial No. : 113X0016
Description : DIGITAL MEDIA RECEIVER
Tester : SARAH
Power Supply : DC 12V

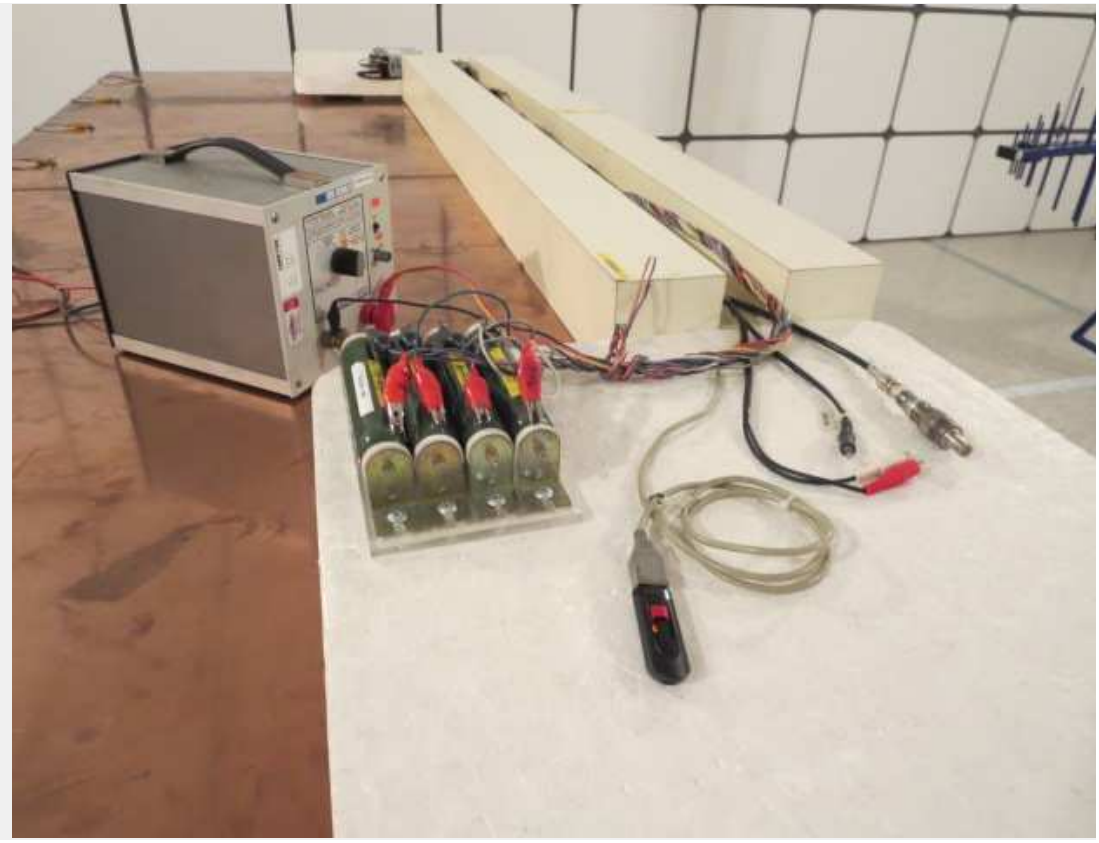
Standard : EN50498
Temp./Humi. : 25 deg C / 44 %
Source : USB (Tr.1/1kHz)
Stage : PP
:



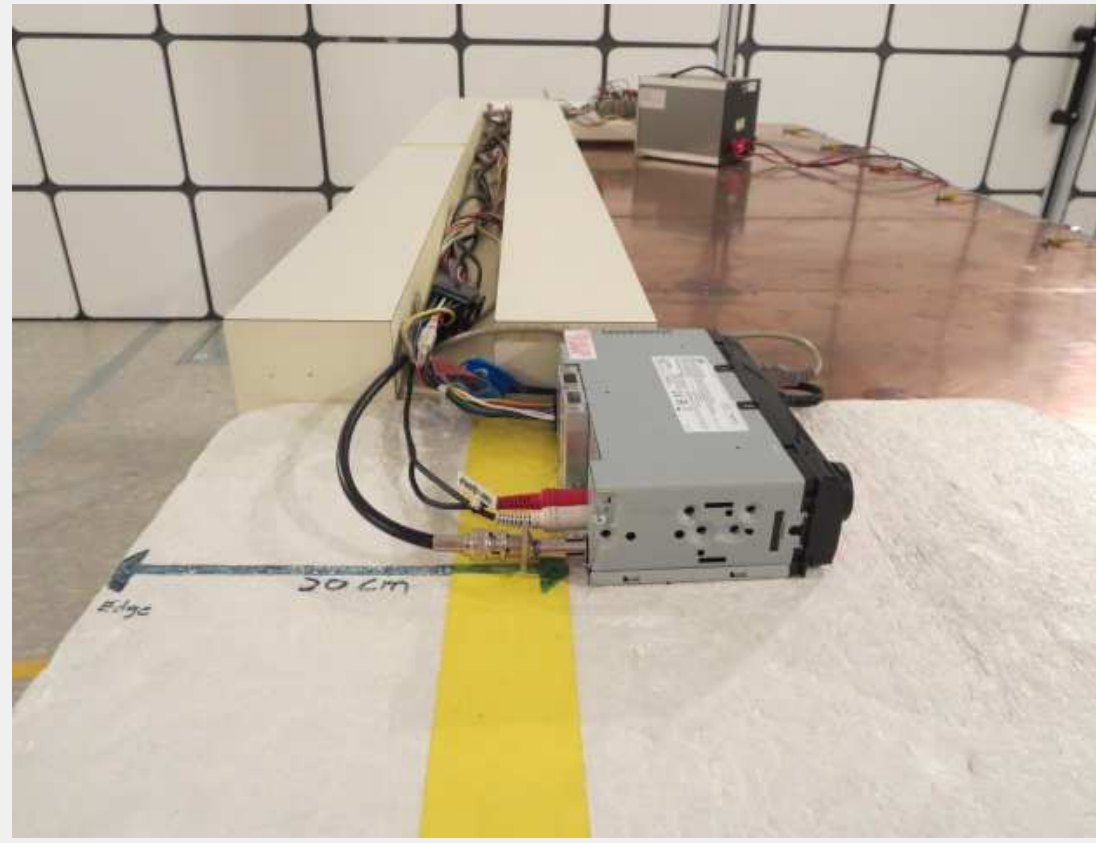
Spectrum Selection

No.	Frequency [MHz]	(P)	Reading [dB(µV)]	c.f [dB]	Result PK [dB(µV)]	Limit BB(QP) [dB(µV)]	Limit NB(QP) [dB(µV)]	Margin BB(QP) [dB]	Margin NB(QP) [dB]
1	812.874	V	32.4	-4.6	27.8	63.0	53.0	35.2	25.2
2	288.037	H	37.7	-13.0	24.7	60.8	50.8	36.1	26.1
3	53.030	V	39.3	-20.0	19.3	55.8	45.8	36.5	26.5
4	53.636	H	39.2	-20.2	19.0	55.7	45.7	36.7	26.7
5	39.979	H	35.3	-13.9	21.4	58.9	48.9	37.5	27.5
6	98.331	H	33.1	-17.1	16.0	53.8	43.8	37.8	27.8
7	203.131	H	36.9	-16.6	20.3	58.5	48.5	38.2	28.2

Picture 1 : 1 meter Radiation Emission Setup



Picture 2 : 1 meter Radiation Emission Setup



JVCKENWOOD TECHNOLOGIES SINGAPORE PTE LTD

EN50498 : 2010 (EAC)	Conducted Immunity (Transient)

ISO 7637-2 CONDUCTED TRANSIENT ON POWER LINE

Test Specification: EN 50498 (Conducted Immunity)

Measurement Setup for Transient Emissions Test:

Tester: Sarah

Brand Name: JVC

Model Name: **KD-X262**

Type: Digital Media Receiver

Serial No: 103X0002

EUT Supply: DC 13.5V by Battery

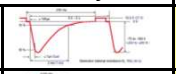
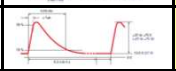
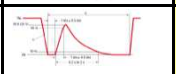
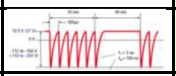
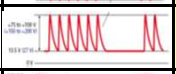
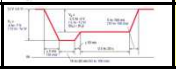
Test mode: USB Playback, 1kHz

Volume : 25

Temperature: 25 ℃

Humidity: 50 %

Pressure: 1000 hPa

Test Level III for 12V System		EUT Symptoms and Event Sequence	Date	Time	Class
Pulse 1		USB playback for 5sec --> EUT Off until the test end.	5-Jul-18	8:41	**A**
Pulse 2a		USB playback continuously	5-Jul-18	9:26	**A**
Pulse 2b		USB play for 47 secs, EUT reset, within 10secs, Power ON at STANDBY mode for 40 secs. EUT reset again for 10secs, Power ON at STANDBY mode (Repeat the same proceduce until the end)	5-Jul-18	9:42	**A**
Pulse 3a		USB playback continuously	5-Jul-18	9:55	**A**
Pluse 3b		USB playback continuously	5-Jul-18	10:56	**A**
Pulse 4		USB playback for 4sec-->EUT display OFF and ON. Continue playback.	5-Jul-18	13:04	**A**

Refer to subsequent pages on Pulse parameters

Measurement Result : **PASS**

Class	Definition
A	all functions of a device/system perform as designed during and after exposure to disturbance.
B	all functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A.
C	one or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed.
D	one or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple "operator/use" action.
E	one or more functions of a device/system do not perform as designed during and after exposure

*Minimum acceptable criteria is Class D or above

Autostar Test Report

TRANSIENT IMMUNITY TEST

Date : 5-Jul-18 **Time : 8:41**

Schaffner Electrotest GmbH
Hafenstrase 1
97877 Wertheim
Germany
Tel +49 (0)9342 8750 Fax +49 (0)9342 87575
www.schaffner.com

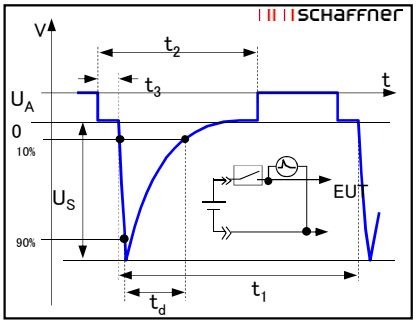
Brand Name :	JVC
Model Name :	KD-X262
Type:	Digital Media Receiver
Serial Number :	103X0002
Test Mode :	USB Playback, 1kHz

Pulse 1

Test Name: C:\Program Files\Schaffner Electrotest GmbH\Autostar\UserTests\Anzen\Pulse 1.ust

Test type: MT 5510 High Energy Pulse 1

Sequence Repetition: Count 5000



Test Status: **PASS**

Parameter	Operation	From	To	Step Size	Fail Value
Pulse Voltage(Us)	Static	-75 V	---	---	---
Pulse Period(t1)	Static	0.5 Secs	---	---	---

General	Value
Rise Time(tr)	1 us
Output Resistance(Ri)	10 ohms
Pulse Width(td)	2 ms
t2	200 ms
Polarity/Coupling	Negative Parallel

No Pulse(t4/t1)	Value
No of Pulse (Np)	100 nS
Burst Duration (t4)	10 mS

Battery	
Battery State	UPC/TIME
Voltage	13.5 V
Current Limit	25 A
End of Test Voltage	13.5 V

Comments

CD playback for 5sec --> EUT Off until the test end.

General Conditions

Ambient Temperature :	25 ℃	Humidity :	50 %	Pressure :	1000 hPa
Tested by :	Sarah				

Autostar Test Report

TRANSIENT IMMUNITY TEST

Date : 2018-07-05 Time : 9:26

Schaffner Electrotest GmbH
Hafenstrase 1
97877 Wertheim
Germany
Tel +49 (0)9342 8750 Fax +49 (0)9342 87575
www.schaffner.com

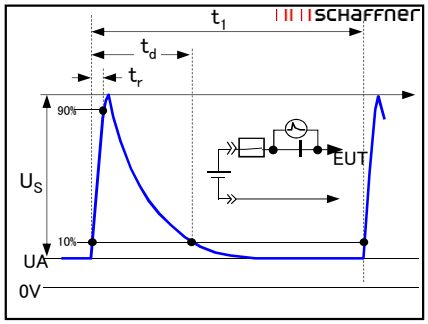
Brand Name :	JVC
Model Name :	KD-X262
Type:	Digital Media Receiver
Serial Number :	103X0002
Test Mode :	USB Playback, 1kHz

Pulse 2a

Test Name: C:\Program Files\Schaffner Electrotest GmbH\Autostar\UserTests\Anzen\Pulse 2a.ust

Test type: MT 5510 High Energy Pulse 2

Sequence Repetition: Count 5000



Test Status: **PASS**

Parameter	Operation	From	To	Step Size	Fail Value
Pulse Voltage (Us)	Static	37 V	---	---	---
Pulse Period(t1)	Static	0.2 Secs	---	---	---

General	Value
Rise Time(tr)	1 us
Output Resistance(Ri)	2 ohms
Pulse Width(td)	50 us
t2	Not Applicable
Polarity/Coupling	Positive Serial

Battery	
Battery State	On
Voltage	13.5 V
Current Limit	5 A
End of Test Voltage	13.5 V

Comments

CD playback continuously

General Conditions

Ambient Temperature :	25 ℃	Humidity :	50 %	Pressure :	1000 hPa
Tested by :	Sarah				

Autostar Test Report

TRANSIENT IMMUNITY TEST

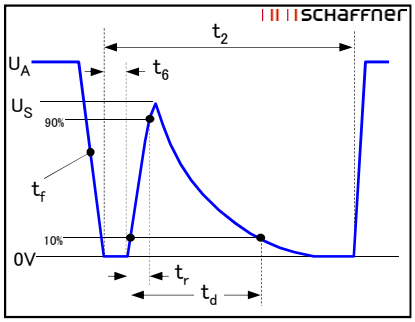
Date : 2018-07-05 Time : 9:42

Schaffner Electrotest GmbH
Hafenstrase 1
97877 Wertheim
Germany
Tel +49 (0)9342 8750 Fax +49 (0)9342 87575
www.schaffner.com

Brand Name :	JVC
Model Name :	KD-X262
Type:	Digital Media Receiver
Serial Number :	103X0002
Test Mode :	USB Playback, 1kHz

Pulse 2b

Test Name	C:\Program Files\Schaffner Electrotest GmbH\Autostar\UserTests\Anzen\Pulse 2b.ust
Test type	NSG 5600 Pulse 2B (SVV)
Sequence Repetition	Count 10
Test Status	**PASS**



Voltage

Ua	13.5 V
Us	10 V

Timing	Value
tf	1 ms
t6	1 ms
tr	1 ms
td	500 ms
t2	2 ms
t1	50 ms

Resistance

Resistance	0 ohms

Battery

Current Limit	5 A
End of Test Voltage	13.5 V

Comments

CD play for 47 secs, EUT reset, within 10secs, Power ON at STANDBY mode for 40 secs. EUT reset again for 10secs, Power ON at STANDBY mode (Repeat the same proceduce until the end)

General Conditions

Ambient Temperature :	25 ℃	Humidity :	50 %	Pressure :	1000 hPa
Tested by :	Sarah				

Autostar Test Report

TRANSIENT IMMUNITY TEST

Date : 2018-07-05 Time : 9:55

Schaffner Electrotest GmbH
Hafenstrase 1
97877 Wertheim
Germany
Tel +49 (0)9342 8750 Fax +49 (0)9342 87575
www.schaffner.com

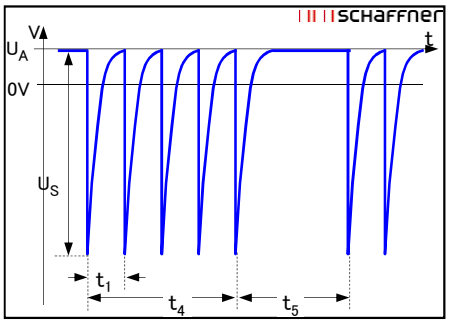
Brand Name :	JVC
Model Name :	KD-X262
Type:	Digital Media Receiver
Serial Number :	103X0002
Test Mode :	USB Playback, 1kHz

Pulse 3b

Test Name C:\Program Files\Schaffner Electrotest GmbH\Autostar\UserTests\Anzen\Pulse 3a.ust

Test type FT 5530 Pulse 3A/B (Burst)

Sequence Repetition Minutes 60



Test Status **PASS**

Parameter	Operation	From	To	Step Size	Fail Value
Pulse Voltage (Us)	Static	112 V	---	---	---
Pulse Period (1/t1)	Static	10 kHz	---	---	---

General	Value
Rise Time (tr)	5 nS
Output Resistance (Ri)	50 ohms
Pulse Width (td)	100 nS
Burst Interval (t5)	0.09 Seconds
Output Mode	NORMAL

No Pulse(t4/t1)	Value
No of Pulse (Np)	100 ns
Burst Duration (t4)	10 ms

Battery	
Battery State	On
Voltage	13.5 V
Current Limit	5 A
End of Test Voltage	13.5 V

Polarity	
Polarity	Negative

Comments

CD playback continuously

General Conditions

Ambient Temperature :	25 ℃	Humidity :	50 %	Pressure :	1000 hPa
Tested by :	Sarah				

Autostar Test Report

TRANSIENT IMMUNITY TEST

Date : 2018-07-05 Time : 10:56

Schaffner Electrotest GmbH
Hafenstrase 1
97877 Wertheim
Germany
Tel +49 (0)9342 8750 Fax +49 (0)9342 87575
www.schaffner.com

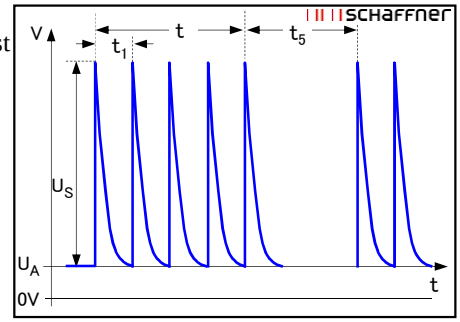
Brand Name :	JVC
Model Name :	KD-X262
Type:	Digital Media Receiver
Serial Number :	103X0002
Test Mode :	USB Playback, 1kHz

Pulse 3b

Test Name C:\Program Files\Schaffner Electrotest GmbH\Autostar\UserTests\Anzen\Pulse 3b.ust

Test type FT 5530 Pulse 3A/B (Burst)

Sequence Repetition Minutes 60



Test Status **PASS**

Parameter	Operation	From	To	Step Size	Fail Value
Pulse Voltage (Us)	Static	75 V	---	---	---
Pulse Period (1/t1)	Static	10 kHz	---	---	---

General	Value
Rise Time (tr)	5 ns
Output Resistance (Ri)	50 ohms
Pulse Width (td)	100 ns
Burst Interval (t5)	0.09 Seconds
Output Mode	NORMAL

No Pulse(t4/t1)	Value
No of Pulse (Np)	100 ns
Burst Duration (t4)	10 ns

Battery	
Battery State	On
Voltage	13.5 V
Current Limit	5 A
End of Test Voltage	13.5 V

Polarity	
Polarity	Positive

Comments

CD playback continuously

General Conditions

Ambient Temperature :	25 ℃	Humidity :	50 %	Pressure :	1000 hPa
Tested by :	Sarah				

Autostar Test Report

TRANSIENT IMMUNITY TEST

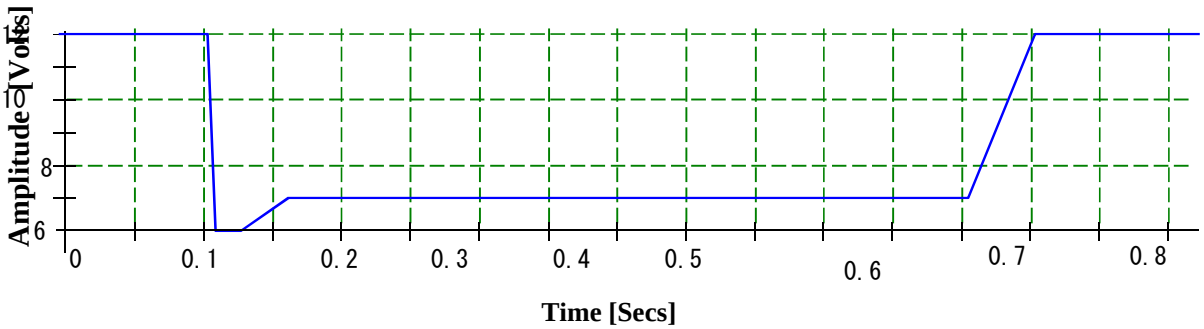
Date : 2018-07-05 **Time: 13:04**

Schaffner Electrotest GmbH
Hafenstrase 1
97877 Wertheim
Germany
Tel +49 (0)9342 8750 Fax +49 (0)9342 87575
www.schaffner.com

Brand Name :	JVC
Model Name :	KD-X262
Type:	Digital Media Receiver
Serial Number :	103X0002
Test Mode :	USB Playback, 1kHz

Pulse 4

Test Name	C:\Program Files\Schaffner Electrotest GmbH\Autostar\UserTests\Anzen\Pulse 4.ust
Test type	Double Arb : Master->NSG 5600 Pulse 4C (SVV)
Sequence Repetition	Count 1
Test Status	**PASS**



Parameter \ Segment Number		#1	#2	#3	#4	#5	#6	#7
Amplitude	Mode	Static	Linear	Static	Linear	Static	Linear	Static
	Initial Value	12 Vpp	12 Vpp	6 Vpp	6 Vpp	7 Vpp	7 Vpp	12 Vpp
	Final Value	—	6 Vpp	—	7 Vpp	—	12 Vpp	—
Segment Duration	Value	100 ms	5 ms	20 ms	30 ms	0.5 Sec	50 ms	100 ms

Battery: Current Limit: 5 A Voltage: 12 V

Comments

CD playback for 4sec-->EUT display OFF and ON. Continue playback.

General Conditions

Ambient Temperature : 25 ℃ Humidity : 50 % Pressure : 1000 hPa

Tested by : Sarah

JVCKENWOOD TECHNOLOGIES SINGAPORE PTE LTD

EN50498 : 2010 (EAC)	Conducted Emission (Transient)

ISO 7637-2 CONDUCTED EMISSIONS ON POWER LINE

Test Specification: EN 50498 (Conducted Emissions)

Date: 26-May-16

Measurement Setup for Transient Emissions Test:

Tester: Sarah

Brand Name: JVC

Model Name: **KD-X262**

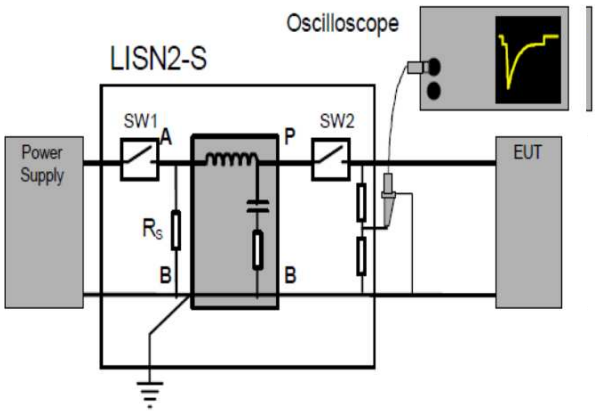
Serial No: 113X0016

EUT Supply: DC 13.5V by Battery

Test mode: USB Playback, 1kHz

EUT at ⅛W power: 2.82V_{pp} at 4Ω per channel

Volume : 22



Block Diagram

Repetition(s)	SW1+ AN (Disconnection Time)				AN + SW2 (Disconnection Time)			
	3ms ± (300~400)ms		800ms ± (650~750)ms		3ms ± (300~400)ms		800ms ± (650~750)ms	
	$V_{max(+peak)}$	$V_{min\ (-Peak)}$	$V_{max(+peak)}$	$V_{min\ (-Peak)}$	$V_{max(+peak)}$	$V_{min\ (-Peak)}$	$V_{max(+peak)}$	$V_{min\ (-Peak)}$
1	-0.1	-13.4	-0.1	-14.6	-0.6	-9.8	-0.6	-13.7
2	0.0	-13.7	-0.1	-13.6	-0.6	-14.5	-0.6	-10.7
3	-0.1	-13.1	-0.1	-13.6	-0.6	-13.5	-0.7	-10.6
4	-0.1	-13.1	-0.1	-13.5	-0.5	-13.4	-0.5	-13.5
5	0.0	-13.1	-0.1	-14.3	-0.4	-9.9	-0.6	-13.2
6	0.0	-13.1	-0.1	-13.5	-0.4	-9.3	-0.6	-10.7
7	-0.1	-13.1	-0.1	-13.5	-0.6	-9.8	-0.6	-14.0
8	0.0	-13.1	-0.1	-13.5	-0.6	-9.5	-0.6	-10.7
9	-0.1	-13.1	-0.1	-13.5	-0.3	-9.4	-0.6	-10.8
10	0.0	-13.1	-0.1	-13.5	-0.6	-9.7	-0.5	-10.5

Measured values taken from oscilloscope offset to DC supply voltage

Suggested Limits of classification of 12V Equipment:		
Pulse Amplitude (Us)	Positive	Negative
	+75V	-100V
50% of specification Limits	**37.5V**	**-50V**
Peak Measurement Results	0.0V	-14.6V

Judgement: Final evaluation is required if result is >50% of the specification limits

Final Evaluation: Not Required

Measurement Result: Pass

Comment if have any:

At SW1 + AN (3ms & 800ms) : After the switch is triggered, EUT will reset and back to initial condition.
At AN + SW2 (3ms & 800ms) : After the switch is triggered, EUT will reset and back to initial condition .

Picture 1 : Conducted Immunity Setup

Picture 2 : Conducted Immunity Setup

Picture 1 : Conducted Emission Setup

Picture 2 : Conducted Emission Setup

Rev.0
R&D EMC-R-04

Immunity Test Matrix Table (S1 / S2b)

Model: KD-X262 **In-charge:** SARAH

Serial No.: 113X0016 **Date:** 5-Jul-18

Stage: PP **Purpose:** Application

1) アンテナ入力端子妨害耐性 [S1]					
Inside Band / FM 98.0MHz			Stereo	Mono	
Front Speaker	Left		O		
	Right		O		
Rear Speaker	Left		O		
	Right		O		
Outside Band / FM 87.6MHz & FM 107.9MHz					
Front Speaker	Left	Lower	O		
		Upper	O		
	Right	Lower	O		
		Upper	O		
Rear Speaker	Left	Lower	O		
		Upper	O		
	Right	Lower	O		
		Upper	O		

2) 流入妨害耐性 電流印加法 [S2b]				
FM 98.0MHz		Stereo**	Mono	**Stereo Measurement is not required if **Mono** measurement has more than 5dB margin.
Front Speaker	Left	-	O	
	Right	-	O	
Rear Speaker	Left	-	O	
	Right	-	O	
AM 999KHz / LW 252KHz / SW 16MHz		999kHz	252kHz	16MHz
Front Speaker	Left	O	O	-
	Right	O	O	-
Rear Speaker	Left	O	O	-
	Right	O	O	-

Remarks

For EUT which has **LW** tuner frequency band, **S2b** measurement is required at **252kHz.**
For EUT which has **SW** tuner frequency band, **S2b** measurement is required at **16MHz.**
EQ setting must be in **FLAT** mode.

S1 Connection setup is identical for all models.
SR coupling unit 75Ω is required for S2b termination, only applicable for MM DDX and AV models.
Refer to procedure for the setup(Page 16)

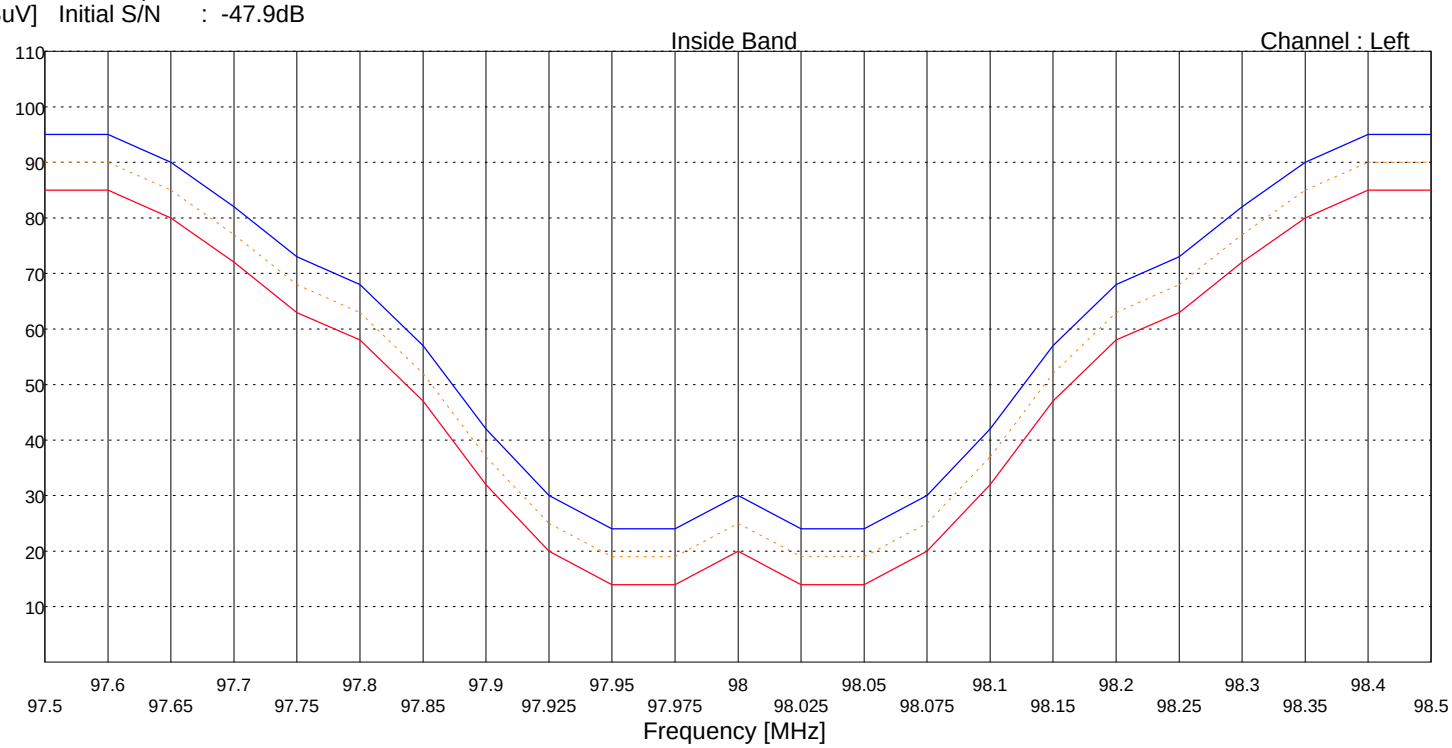
S1 Input Immunity

JKTS (Immunity)
Date : 05-Jul-2018 13:30:47

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: FM Reception(STEREO)	Output Port	: FRONT SPEAKER

Measure Comment :

Ref.Output Power : 437.582mW
[dBuV] Initial S/N : -47.9dB



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]
97.500	95.0	85.0	10.0	98.025	24.0	14.0	10.0
97.600	95.0	85.0	10.0	98.050	24.0	14.0	10.0
97.650	90.0	80.0	10.0	98.075	30.0	20.0	10.0
97.700	82.0	72.0	10.0	98.100	42.0	32.0	10.0
97.750	73.0	63.0	10.0	98.150	57.0	47.0	10.0
97.800	68.0	58.0	10.0	98.200	68.0	58.0	10.0
97.850	57.0	47.0	10.0	98.250	73.0	63.0	10.0
97.900	42.0	32.0	10.0	98.300	82.0	72.0	10.0
97.925	30.0	20.0	10.0	98.350	90.0	80.0	10.0
97.950	24.0	14.0	10.0	98.400	95.0	85.0	10.0
97.975	24.0	14.0	10.0	98.500	95.0	85.0	10.0
98.000	30.0	20.0	10.0				

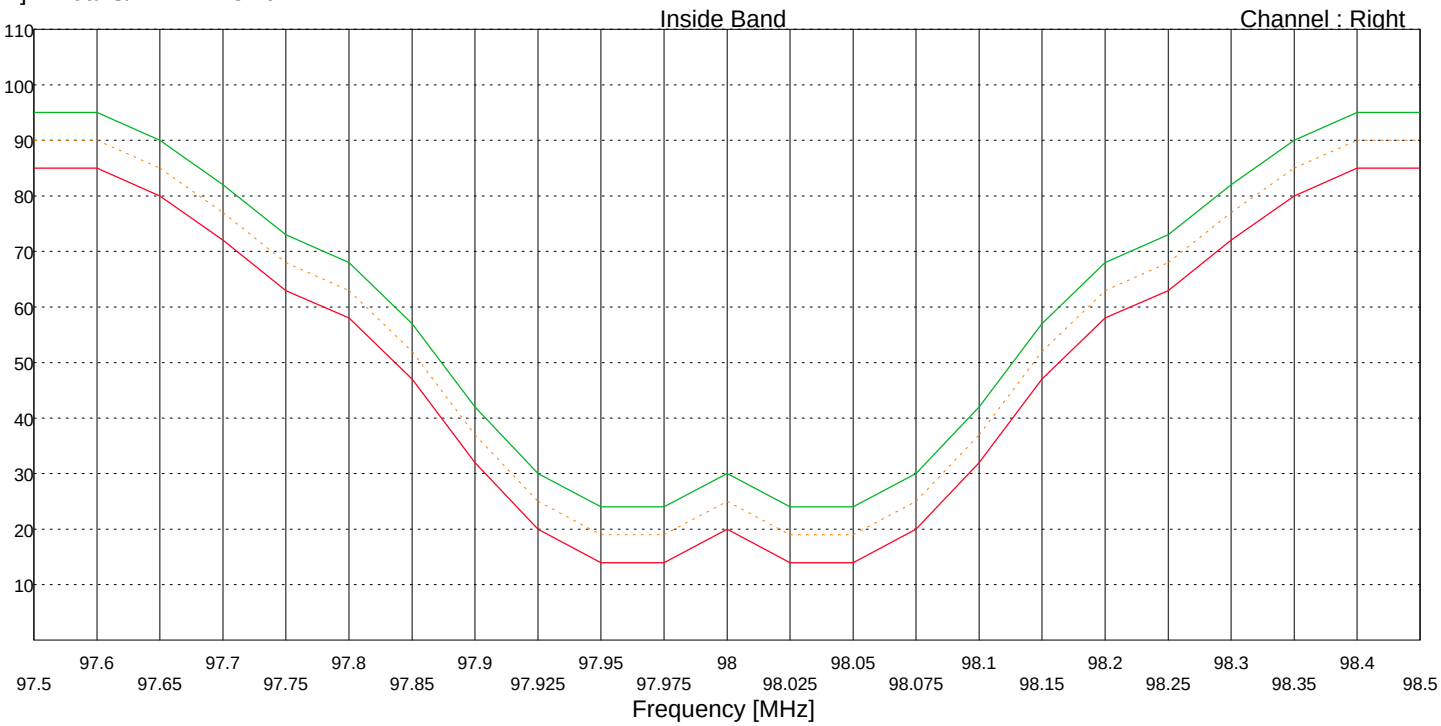
S1 Input Immunity

JKTS (Immunity)
Date : 05-Jul-2018 13:30:47

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: FM Reception(STEREO)	Output Port	: FRONT SPEAKER

Measure Comment :

Ref.Output Power : 395.641mW
[dBuV] Initial S/N : -48.1dB



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]
97.500	95.0	85.0	10.0	98.025	24.0	14.0	10.0
97.600	95.0	85.0	10.0	98.050	24.0	14.0	10.0
97.650	90.0	80.0	10.0	98.075	30.0	20.0	10.0
97.700	82.0	72.0	10.0	98.100	42.0	32.0	10.0
97.750	73.0	63.0	10.0	98.150	57.0	47.0	10.0
97.800	68.0	58.0	10.0	98.200	68.0	58.0	10.0
97.850	57.0	47.0	10.0	98.250	73.0	63.0	10.0
97.900	42.0	32.0	10.0	98.300	82.0	72.0	10.0
97.925	30.0	20.0	10.0	98.350	90.0	80.0	10.0
97.950	24.0	14.0	10.0	98.400	95.0	85.0	10.0
97.975	24.0	14.0	10.0	98.500	95.0	85.0	10.0
98.000	30.0	20.0	10.0				

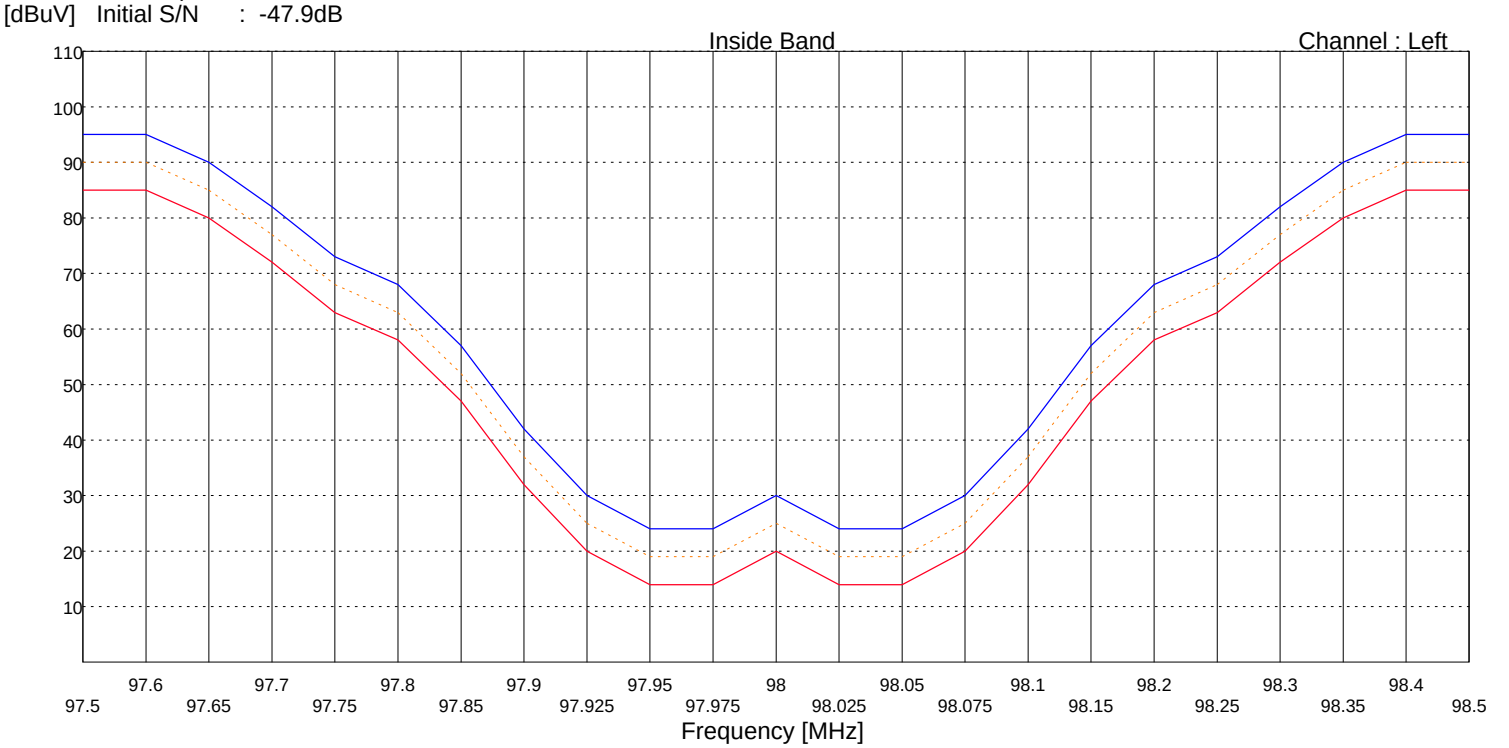
S1 Input Immunity

JKTS (Immunity)
Date : 05-Jul-2018 13:34:47

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: FM Reception(STEREO)	Output Port	: REAR SPEAKER

Measure Comment :

Ref.Output Power : 508.369mW
Initial S/N : -47.9dB



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]
97.500	95.0	85.0	10.0	98.025	24.0	14.0	10.0
97.600	95.0	85.0	10.0	98.050	24.0	14.0	10.0
97.650	90.0	80.0	10.0	98.075	30.0	20.0	10.0
97.700	82.0	72.0	10.0	98.100	42.0	32.0	10.0
97.750	73.0	63.0	10.0	98.150	57.0	47.0	10.0
97.800	68.0	58.0	10.0	98.200	68.0	58.0	10.0
97.850	57.0	47.0	10.0	98.250	73.0	63.0	10.0
97.900	42.0	32.0	10.0	98.300	82.0	72.0	10.0
97.925	30.0	20.0	10.0	98.350	90.0	80.0	10.0
97.950	24.0	14.0	10.0	98.400	95.0	85.0	10.0
97.975	24.0	14.0	10.0	98.500	95.0	85.0	10.0
98.000	30.0	20.0	10.0				

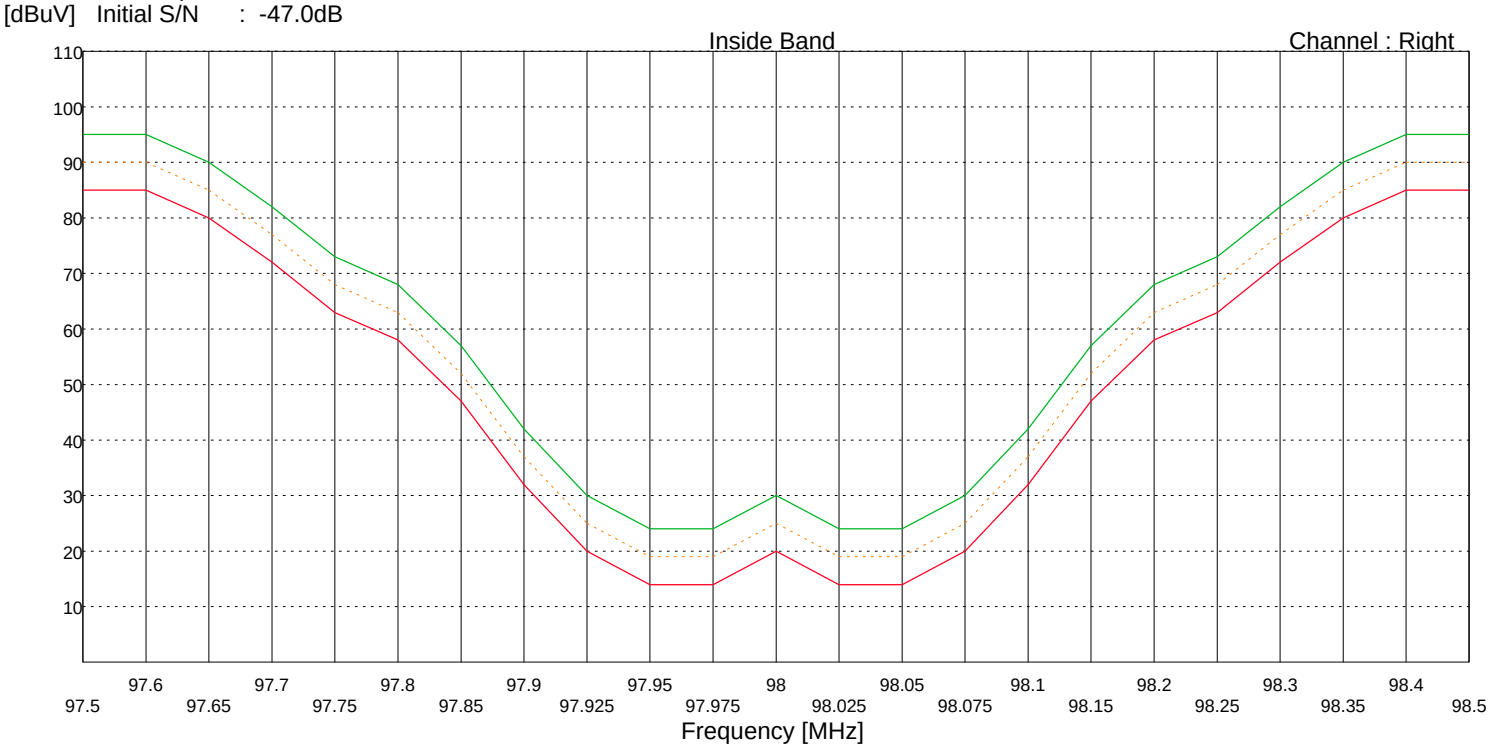
S1 Input Immunity

JKTS (Immunity)
Date : 05-Jul-2018 13:34:47

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: FM Reception(STEREO)	Output Port	: REAR SPEAKER

Measure Comment :

Ref.Output Power : 619.369mW
Initial S/N : -47.0dB



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]
97.500	95.0	85.0	10.0	98.025	24.0	14.0	10.0
97.600	95.0	85.0	10.0	98.050	24.0	14.0	10.0
97.650	90.0	80.0	10.0	98.075	30.0	20.0	10.0
97.700	82.0	72.0	10.0	98.100	42.0	32.0	10.0
97.750	73.0	63.0	10.0	98.150	57.0	47.0	10.0
97.800	68.0	58.0	10.0	98.200	68.0	58.0	10.0
97.850	57.0	47.0	10.0	98.250	73.0	63.0	10.0
97.900	42.0	32.0	10.0	98.300	82.0	72.0	10.0
97.925	30.0	20.0	10.0	98.350	90.0	80.0	10.0
97.950	24.0	14.0	10.0	98.400	95.0	85.0	10.0
97.975	24.0	14.0	10.0	98.500	95.0	85.0	10.0
98.000	30.0	20.0	10.0				

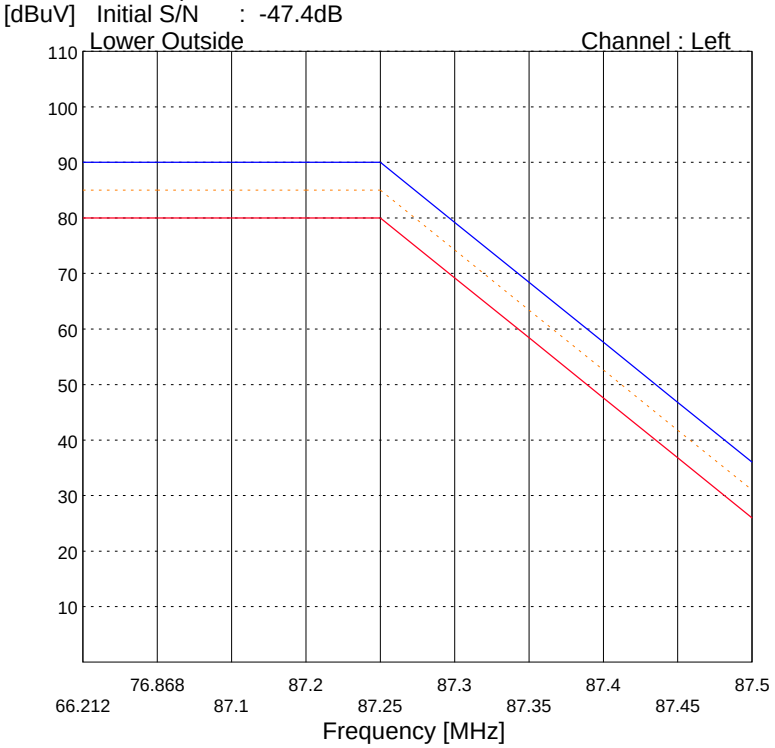
S1 Input Immunity

JKTS (Immunity)
Date : 05-Jul-2018 13:51:38

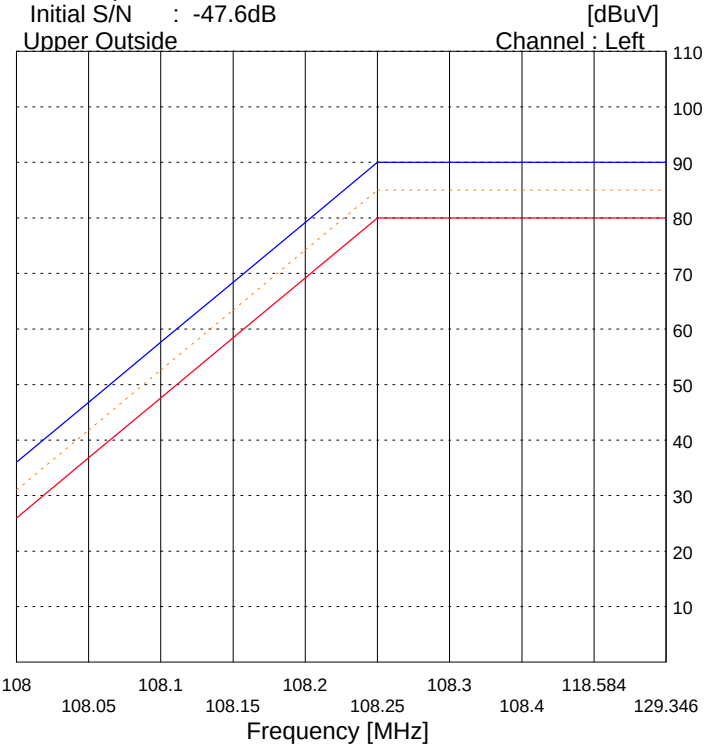
COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: FM Reception(STEREO)	Output Port	: FRONT SPEAKER

Measure Comment :

Ref.Output Power : 421.201mW
Initial S/N : -47.4dB
Lower Outside
Channel : Left



Ref.Output Power : 421.850mW
Initial S/N : -47.6dB
Upper Outside
Channel : Left



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]
66.212	90.0	80.0	10.0	129.346	90.0	80.0	10.0
76.868	90.0	80.0	10.0	118.584	90.0	80.0	10.0
87.100	90.0	80.0	10.0	108.400	90.0	80.0	10.0
87.200	90.0	80.0	10.0	108.300	90.0	80.0	10.0
87.250	90.0	80.0	10.0	108.250	90.0	80.0	10.0
87.300	79.2	69.2	10.0	108.200	79.2	69.2	10.0
87.350	68.4	58.4	10.0	108.150	68.4	58.4	10.0
87.400	57.6	47.6	10.0	108.100	57.6	47.6	10.0
87.450	46.8	36.8	10.0	108.050	46.8	36.8	10.0
87.500	36.0	26.0	10.0	108.000	36.0	26.0	10.0

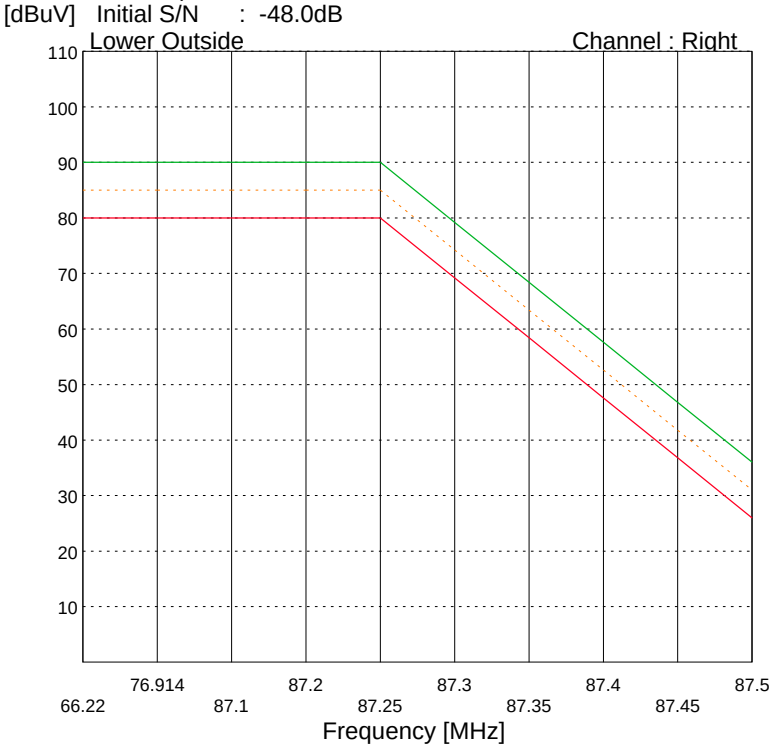
S1 Input Immunity

JKTS (Immunity)
Date : 05-Jul-2018 13:51:38

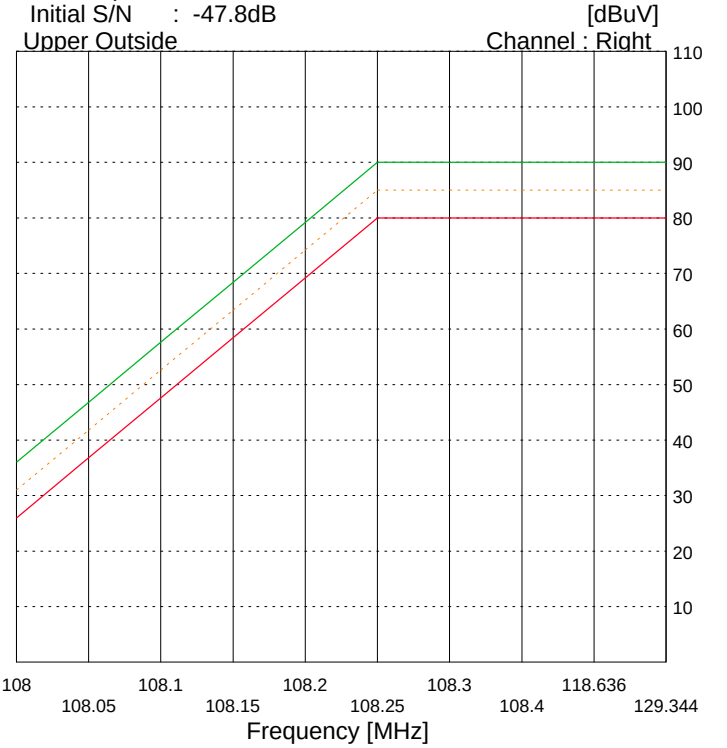
COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: FM Reception(STEREO)	Output Port	: FRONT SPEAKER

Measure Comment :

Ref.Output Power : 415.380mW
Initial S/N : -48.0dB
Lower Outside Channel : Right



Ref.Output Power : 414.736mW
Initial S/N : -47.8dB
Upper Outside Channel : Right



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]
66.220	90.0	80.0	10.0	129.344	90.0	80.0	10.0
76.914	90.0	80.0	10.0	118.636	90.0	80.0	10.0
87.100	90.0	80.0	10.0	108.400	90.0	80.0	10.0
87.200	90.0	80.0	10.0	108.300	90.0	80.0	10.0
87.250	90.0	80.0	10.0	108.250	90.0	80.0	10.0
87.300	79.2	69.2	10.0	108.200	79.2	69.2	10.0
87.350	68.4	58.4	10.0	108.150	68.4	58.4	10.0
87.400	57.6	47.6	10.0	108.100	57.6	47.6	10.0
87.450	46.8	36.8	10.0	108.050	46.8	36.8	10.0
87.500	36.0	26.0	10.0	108.000	36.0	26.0	10.0

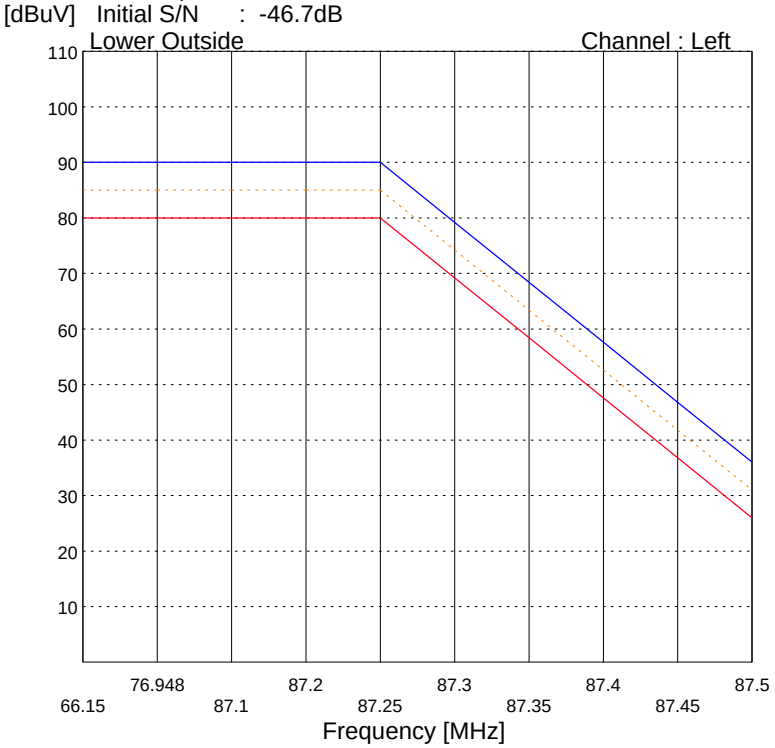
S1 Input Immunity

JKTS (Immunity)
Date : 05-Jul-2018 13:38:08

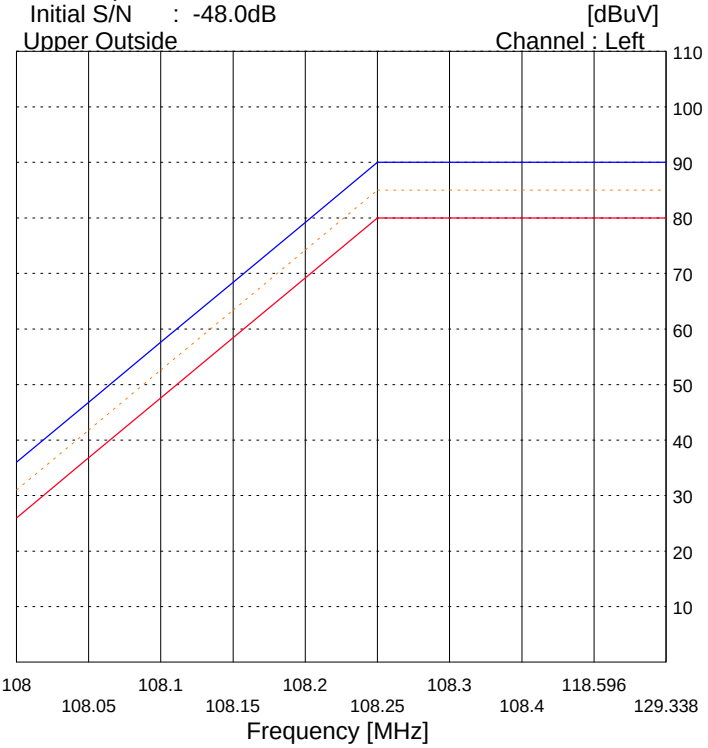
COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: FM Reception(STEREO)	Output Port	: REAR SPEAKER

Measure Comment :

Ref.Output Power : 571.536mW
Initial S/N : -46.7dB
Lower Outside
Channel : Left



Ref.Output Power : 573.049mW
Initial S/N : -48.0dB
Upper Outside
Channel : Left



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]
66.150	90.0	80.0	10.0	129.338	90.0	80.0	10.0
76.948	90.0	80.0	10.0	118.596	90.0	80.0	10.0
87.100	90.0	80.0	10.0	108.400	90.0	80.0	10.0
87.200	90.0	80.0	10.0	108.300	90.0	80.0	10.0
87.250	90.0	80.0	10.0	108.250	90.0	80.0	10.0
87.300	79.2	69.2	10.0	108.200	79.2	69.2	10.0
87.350	68.4	58.4	10.0	108.150	68.4	58.4	10.0
87.400	57.6	47.6	10.0	108.100	57.6	47.6	10.0
87.450	46.8	36.8	10.0	108.050	46.8	36.8	10.0
87.500	36.0	26.0	10.0	108.000	36.0	26.0	10.0

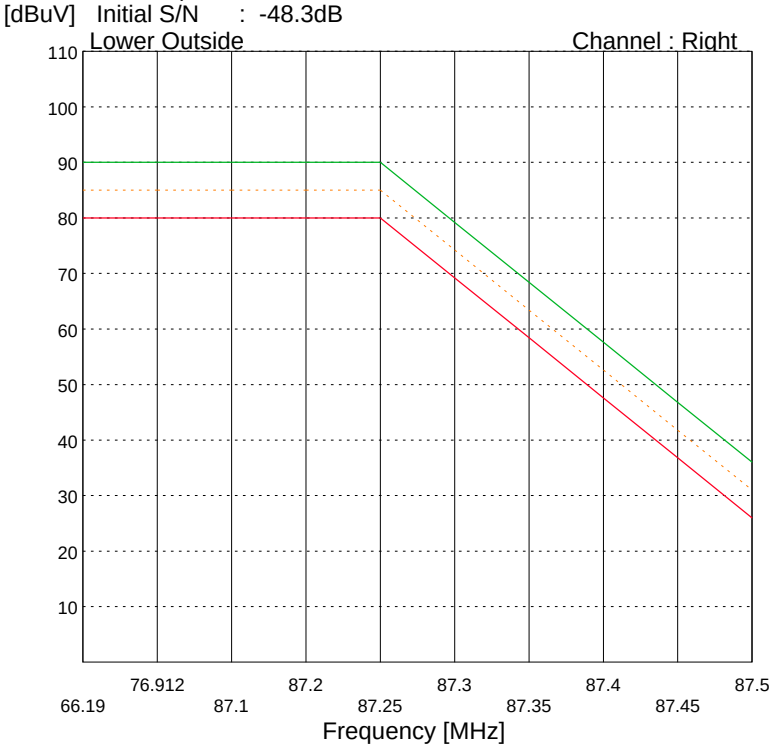
S1 Input Immunity

JKTS (Immunity)
Date : 05-Jul-2018 13:38:08

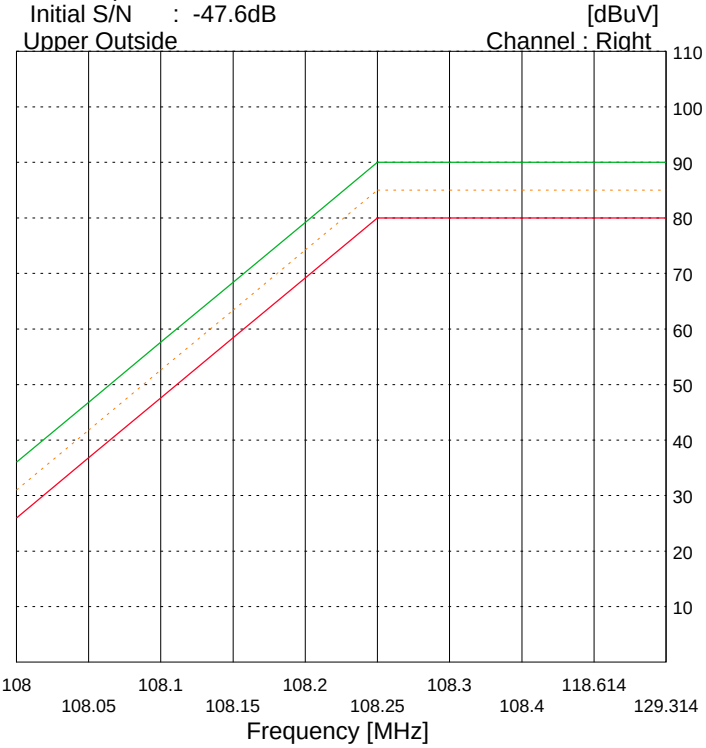
COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: FM Reception(STEREO)	Output Port	: REAR SPEAKER

Measure Comment :

Ref.Output Power : 633.616mW
Initial S/N : -48.3dB
Lower Outside Channel : Right



Ref.Output Power : 611.524mW
Initial S/N : -47.6dB
Upper Outside Channel : Right



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]
66.190	90.0	80.0	10.0	129.314	90.0	80.0	10.0
76.912	90.0	80.0	10.0	118.614	90.0	80.0	10.0
87.100	90.0	80.0	10.0	108.400	90.0	80.0	10.0
87.200	90.0	80.0	10.0	108.300	90.0	80.0	10.0
87.250	90.0	80.0	10.0	108.250	90.0	80.0	10.0
87.300	79.2	69.2	10.0	108.200	79.2	69.2	10.0
87.350	68.4	58.4	10.0	108.150	68.4	58.4	10.0
87.400	57.6	47.6	10.0	108.100	57.6	47.6	10.0
87.450	46.8	36.8	10.0	108.050	46.8	36.8	10.0
87.500	36.0	26.0	10.0	108.000	36.0	26.0	10.0

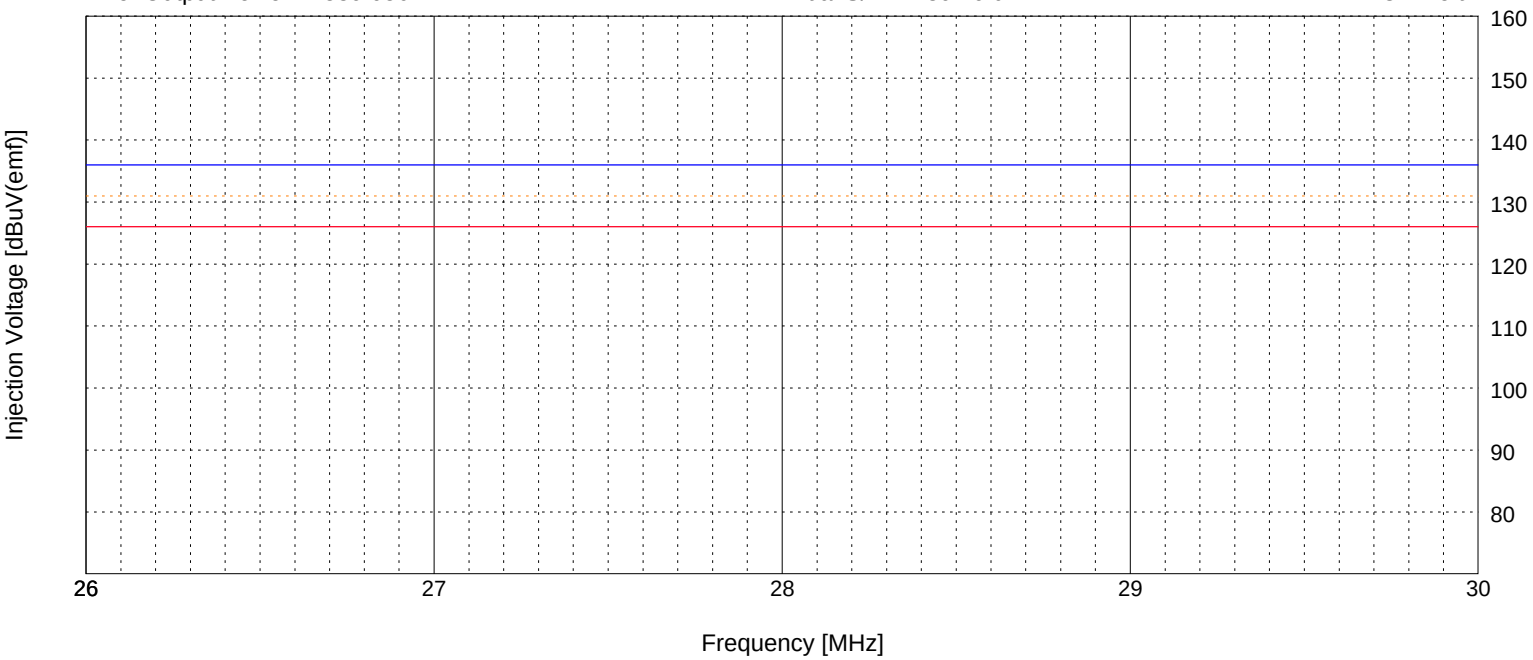
S2b Immunity to Conducted Currents

JKTS (Immunity)
Date : 05-Jul-2018 14:49:58

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: FM Reception(MONO)	Output Port	: FRONT SPEAKER

Measure Comment :

Ref.Output Power : 589.056mW Initial S/N : -39.49 dB Ch: Left



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks

No degradations !

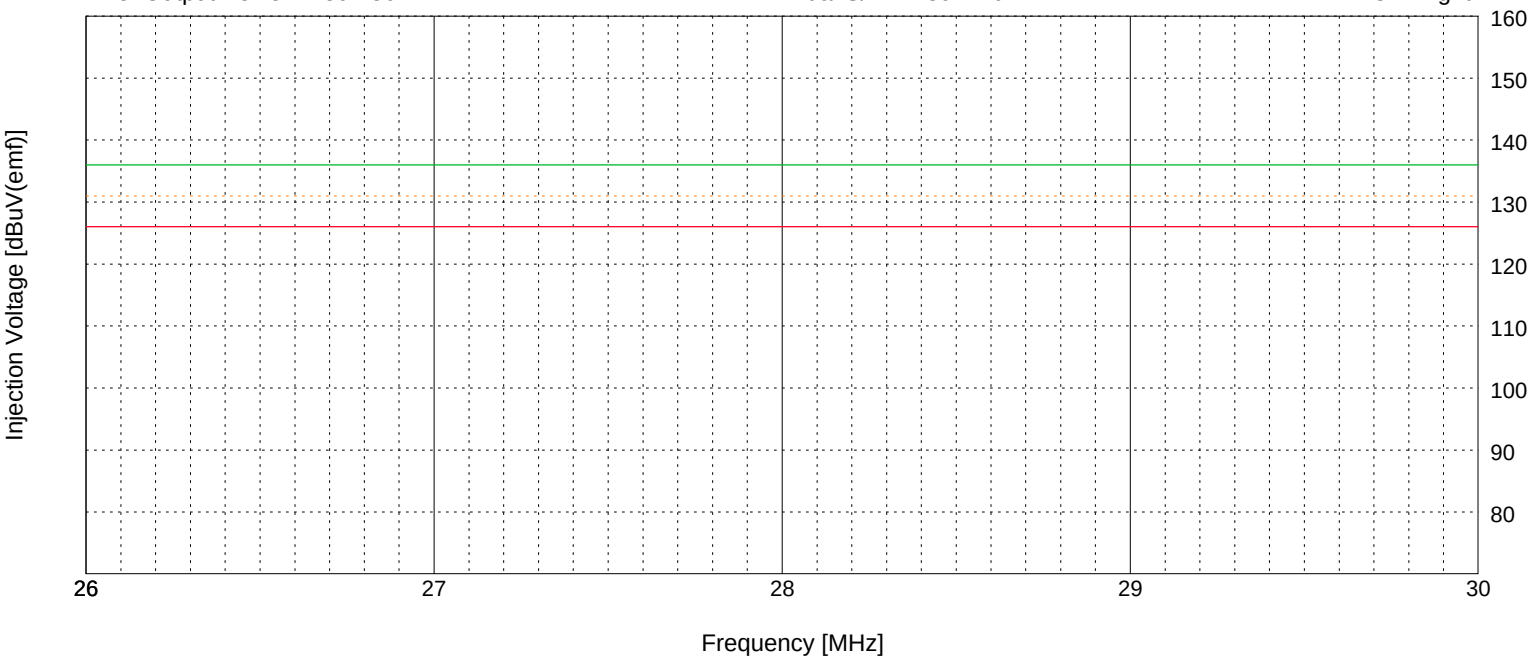
S2b Immunity to Conducted Currents

JKTS (Immunity)
Date : 05-Jul-2018 14:49:58

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: FM Reception(MONO)	Output Port	: FRONT SPEAKER

Measure Comment :

Ref.Output Power : 591.361mW Initial S/N : -39.41 dB Ch: Right



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks

No degradations !

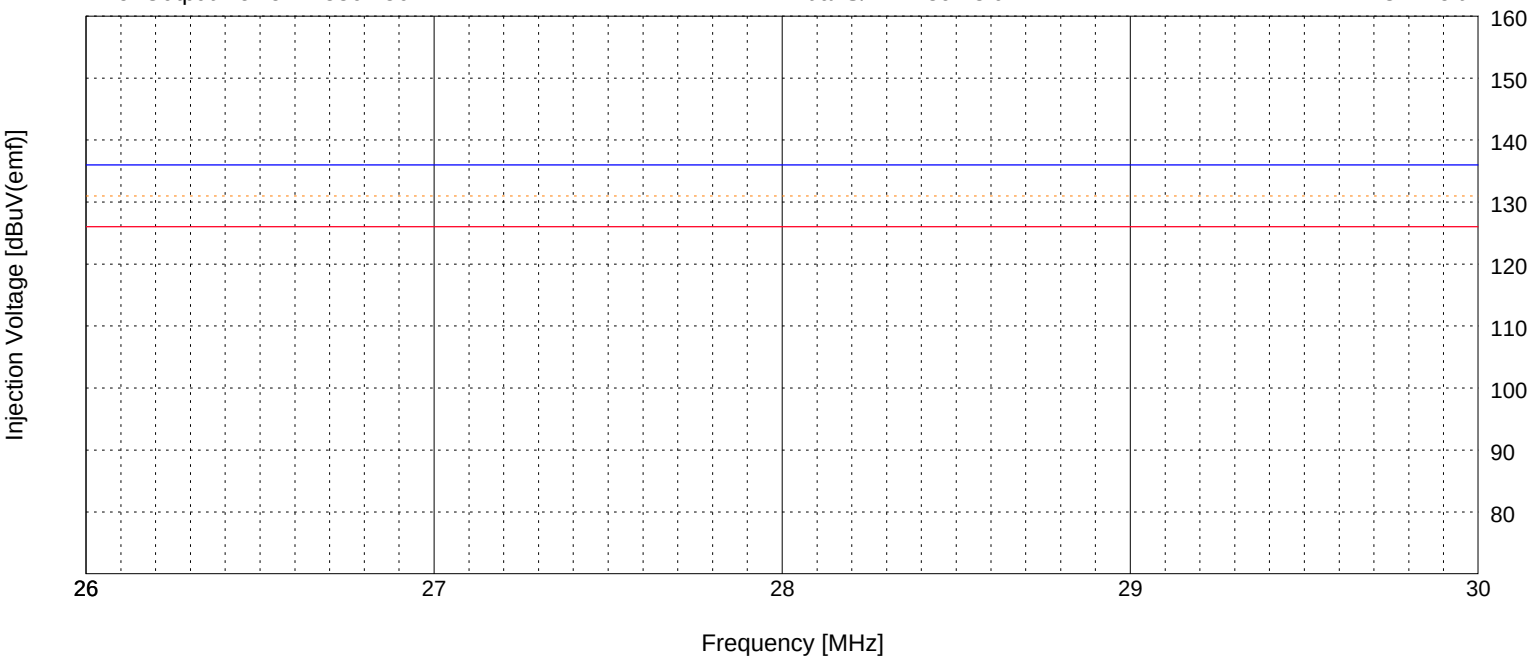
S2b Immunity to Conducted Currents

JKTS (Immunity)
Date : 05-Jul-2018 15:21:14

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: FM Reception(MONO)	Output Port	: REAR SPEAKER

Measure Comment :

Ref.Output Power : 586.756mW Initial S/N : -39.48 dB Ch: Left



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks

No degradations !

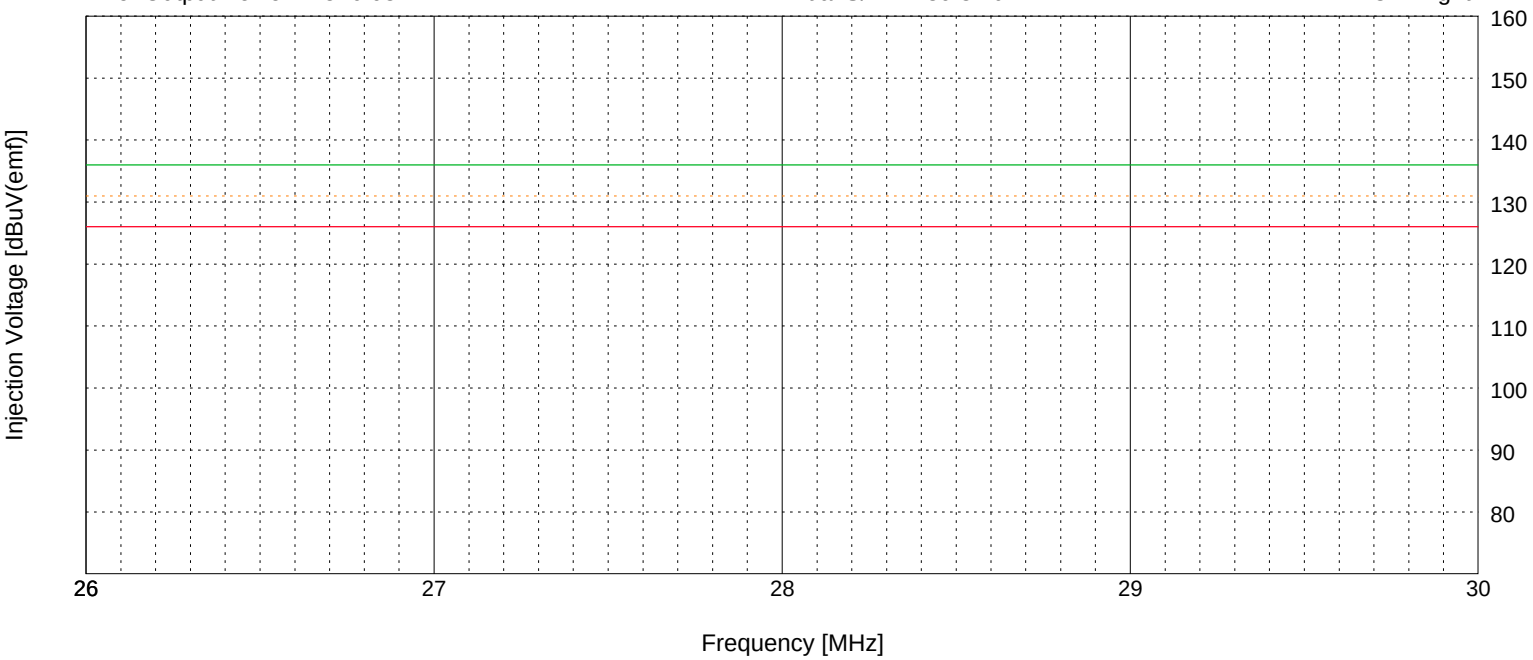
S2b Immunity to Conducted Currents

JKTS (Immunity)
Date : 05-Jul-2018 15:21:14

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: FM Reception(MONO)	Output Port	: REAR SPEAKER

Measure Comment :

Ref.Output Power : 576.081mW Initial S/N : -39.31 dB Ch: Right



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks

No degradations !

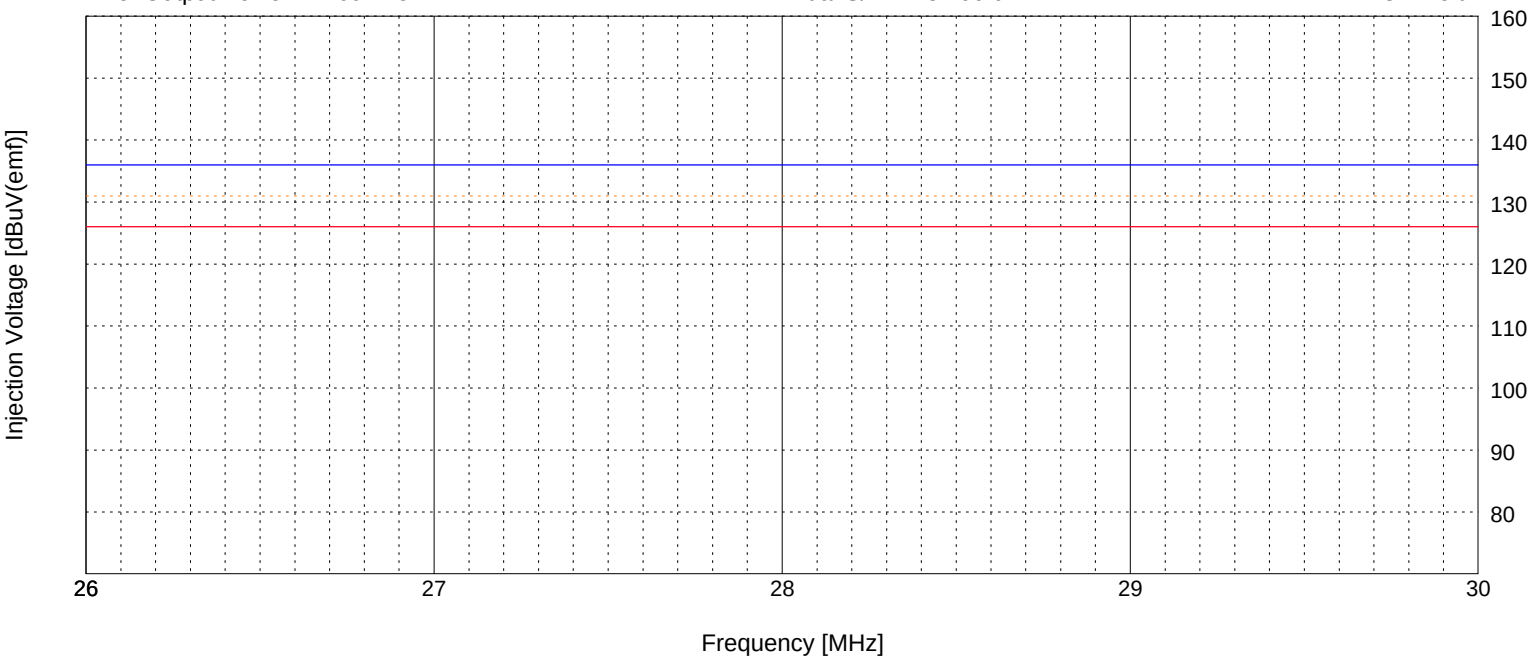
S2b Immunity to Conducted Currents

JKTS (Immunity)
Date : 05-Jul-2018 14:53:10

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: AM Reception(MW)	Output Port	: FRONT SPEAKER

Measure Comment :

Ref.Output Power : 469.225mW Initial S/N : -32.99 dB Ch: Left



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks

No degradations !

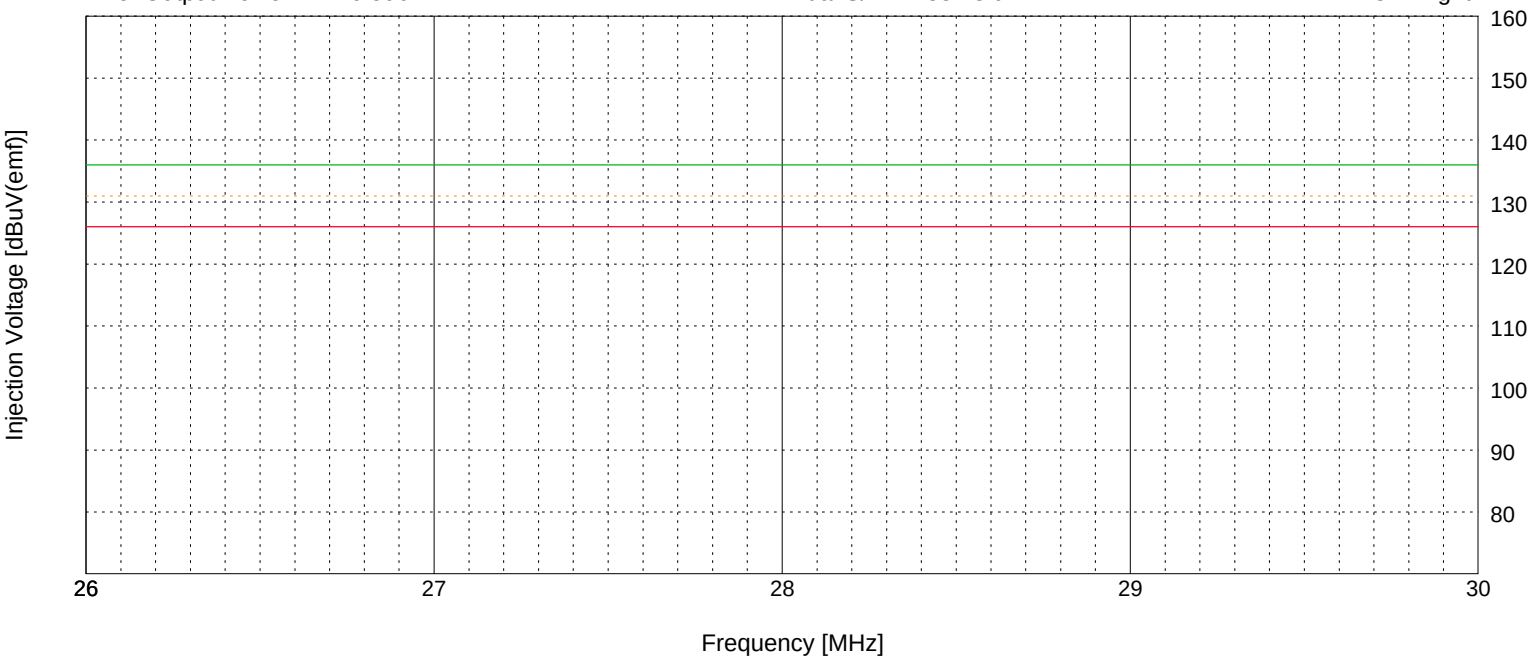
S2b Immunity to Conducted Currents

JKTS (Immunity)
Date : 05-Jul-2018 14:53:10

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: AM Reception(MW)	Output Port	: FRONT SPEAKER

Measure Comment :

Ref.Output Power : 470.596mW Initial S/N : -33.13 dB Ch: Right



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks

No degradations !

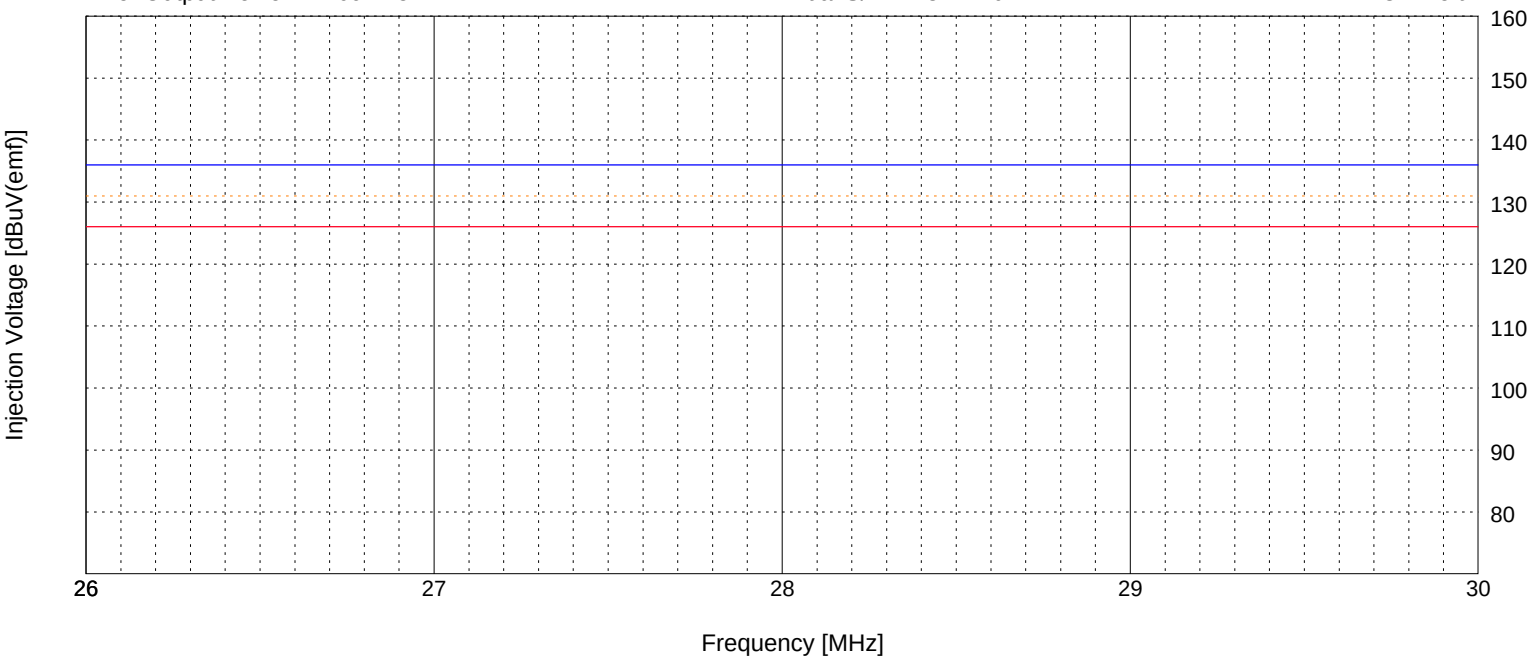
S2b Immunity to Conducted Currents

JKTS (Immunity)
Date : 05-Jul-2018 15:18:55

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: AM Reception(MW)	Output Port	: REAR SPEAKER

Measure Comment :

Ref.Output Power : 469.225mW Initial S/N : -37.74 dB Ch: Left



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks

No degradations !

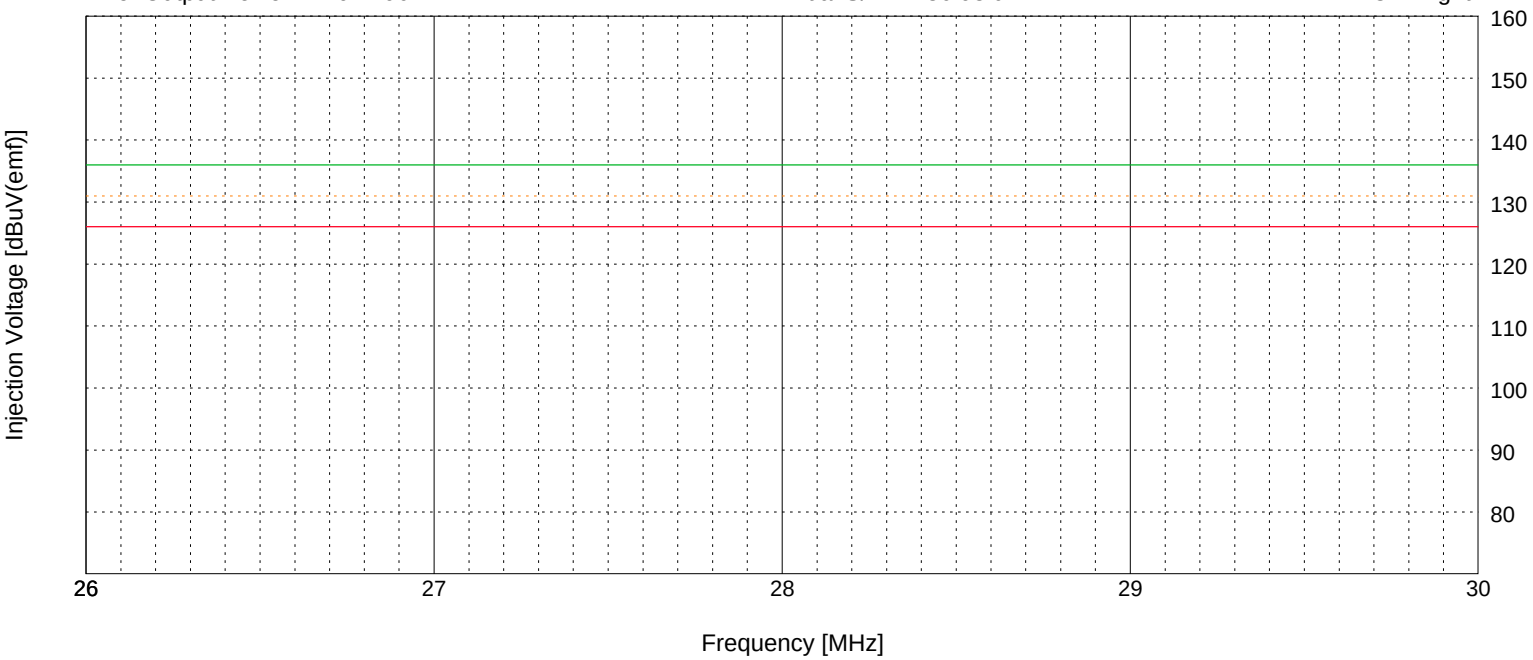
S2b Immunity to Conducted Currents

JKTS (Immunity)
Date : 05-Jul-2018 15:18:55

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: AM Reception(MW)	Output Port	: REAR SPEAKER

Measure Comment :

Ref.Output Power : 404.496mW Initial S/N : -36.93 dB Ch: Right



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks

No degradations !

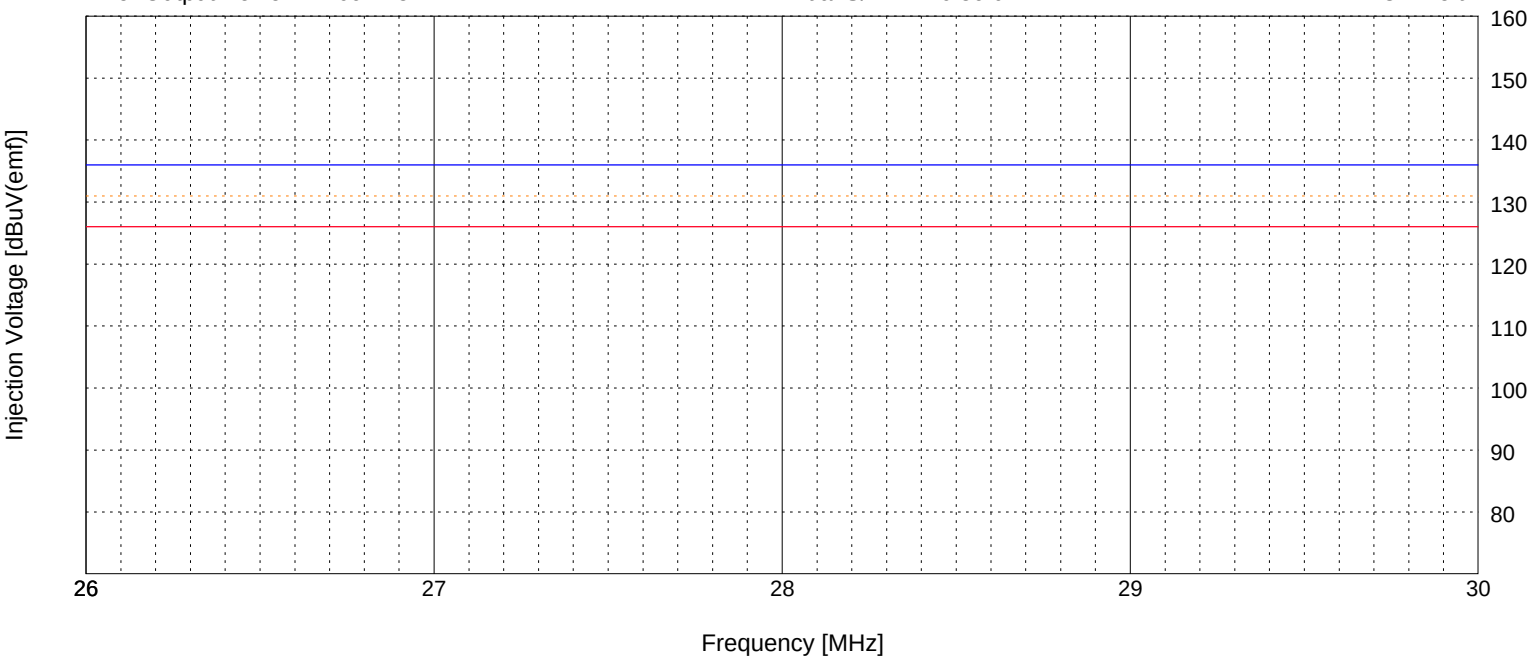
S2b Immunity to Conducted Currents

JKTS (Immunity)
Date : 05-Jul-2018 14:57:35

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: AM Reception(LW)	Output Port	: FRONT SPEAKER

Measure Comment :

Ref.Output Power : 469.225mW Initial S/N : -26.59 dB Ch: Left



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks

No degradations !

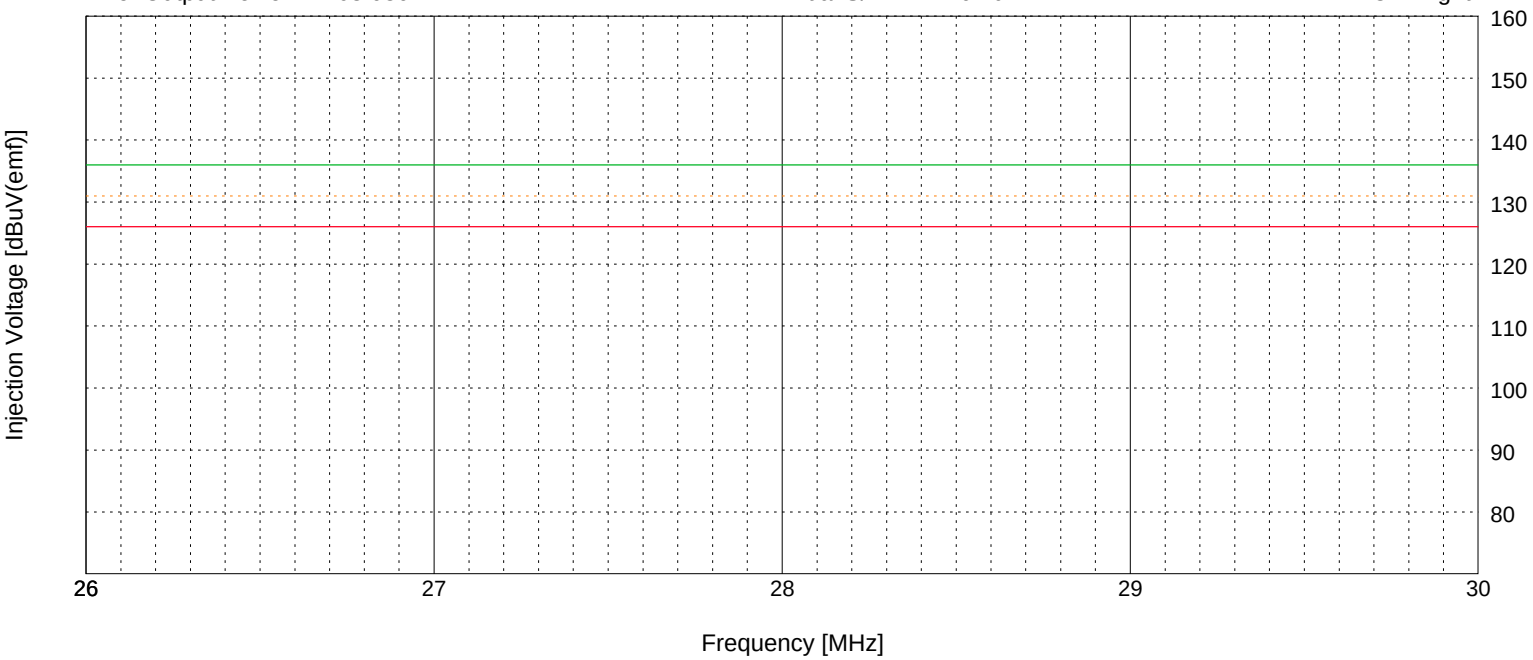
S2b Immunity to Conducted Currents

JKTS (Immunity)
Date : 05-Jul-2018 14:57:35

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: AM Reception(LW)	Output Port	: FRONT SPEAKER

Measure Comment :

Ref.Output Power : 463.080mW Initial S/N : -27.01 dB Ch: Right



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks

No degradations !

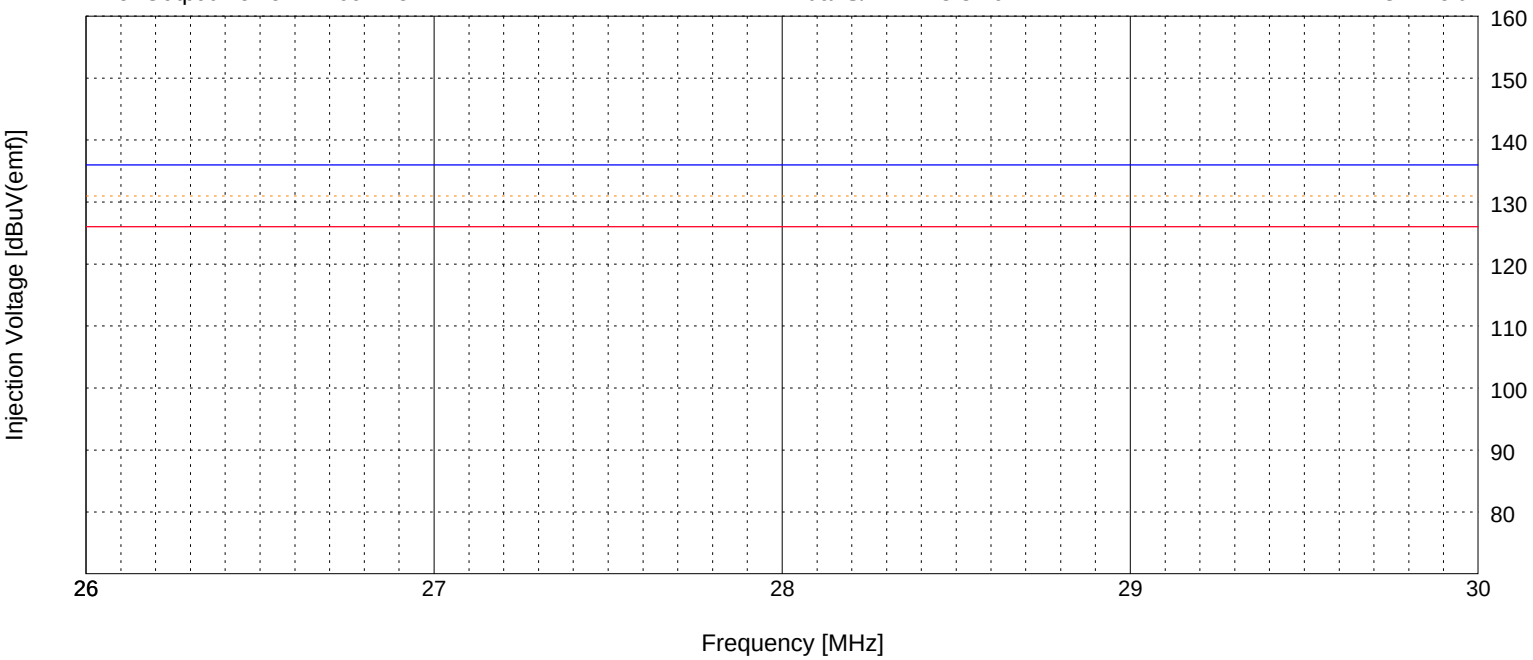
S2b Immunity to Conducted Currents

JKTS (Immunity)
Date : 05-Jul-2018 15:00:27

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: AM Reception(LW)	Output Port	: REAR SPEAKER

Measure Comment :

Ref.Output Power : 469.225mW Initial S/N : -28.34 dB Ch: Left



********** Results of Measurement **********

Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks

No degradations !

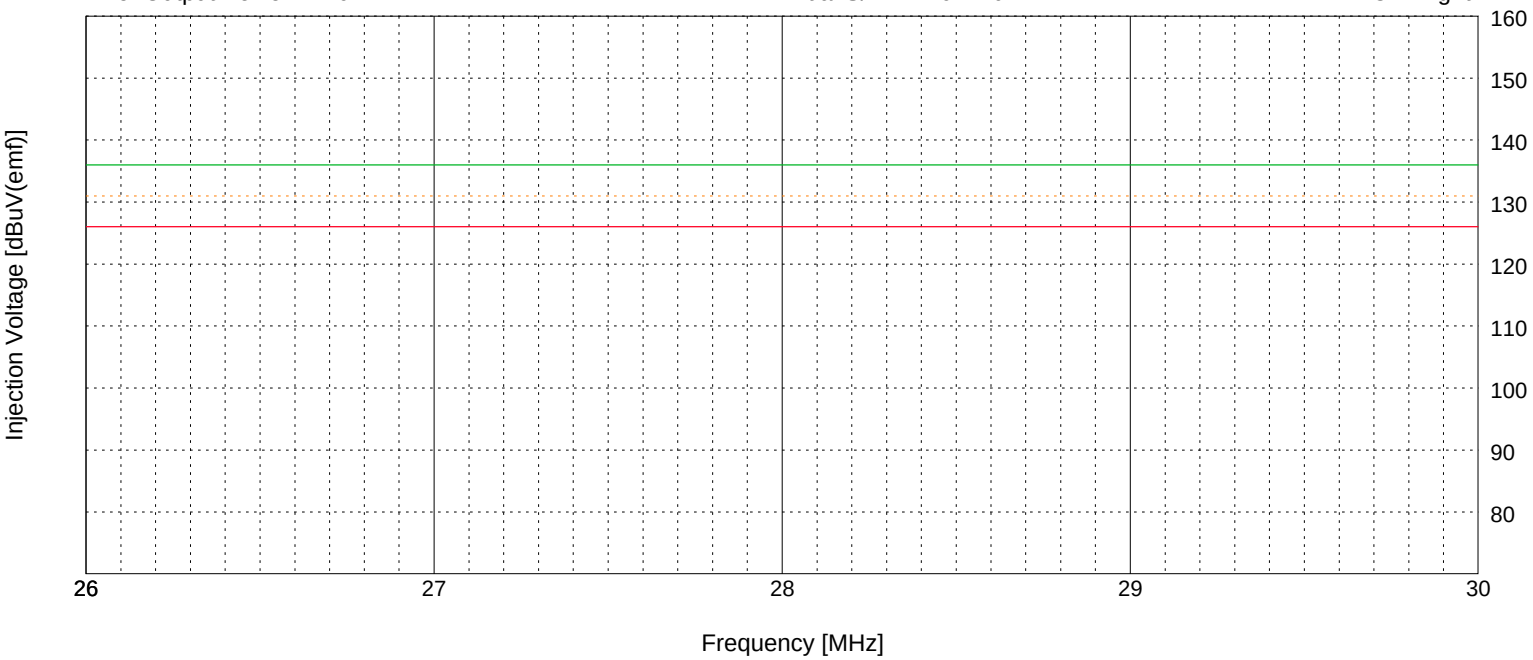
S2b Immunity to Conducted Currents

JKTS (Immunity)
Date : 05-Jul-2018 15:00:27

COMPANY BRAND	: JVC	STANDARD	: EN 55020:2002
MODEL NAME	: KD-X262	TEMP./HUMI.	: 26 deg C / 60%
SERIAL No.	: 113X0016	POWER SUPPLY	: DC 12V
DESCRIPTION	: DIGITAL MEDIA RECEIVER	MEASURED BY	: SARAH
STAGE	: APPLICATION		
Operation Mode	: AM Reception(LW)	Output Port	: REAR SPEAKER

Measure Comment :

Ref.Output Power : 464.442mW Initial S/N : -26.71 dB Ch: Right

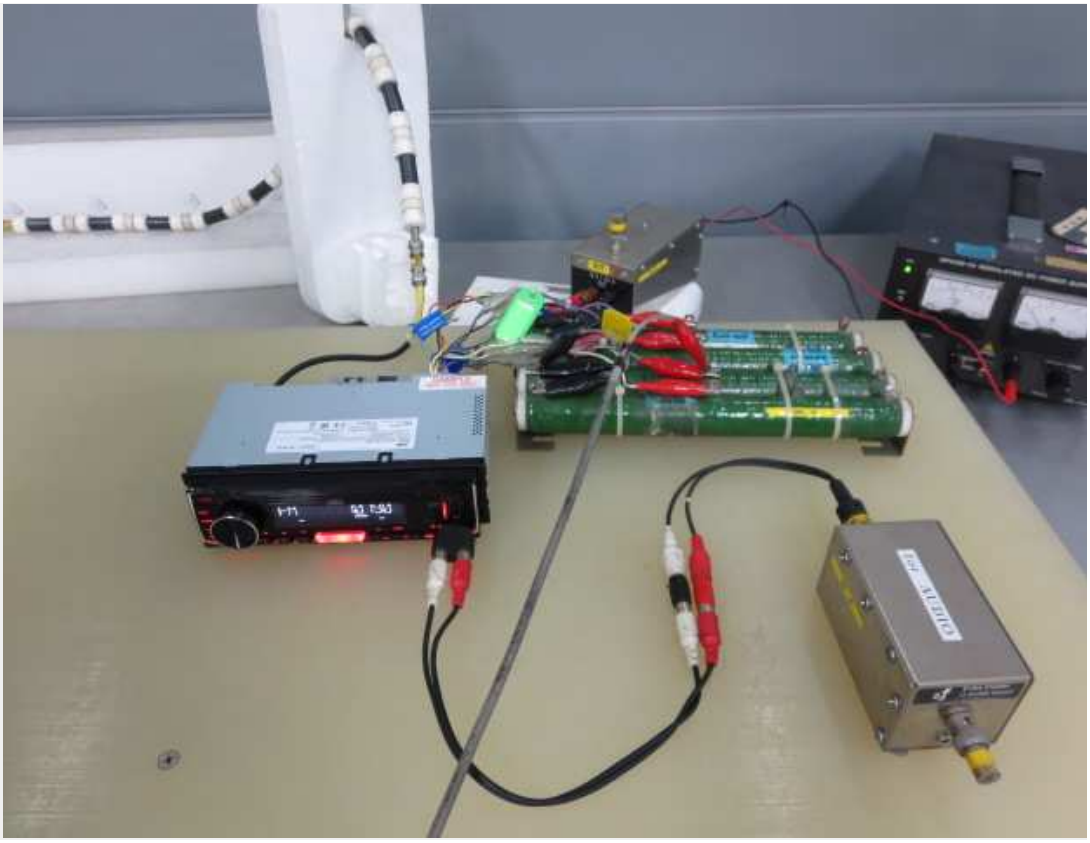


********** Results of Measurement **********

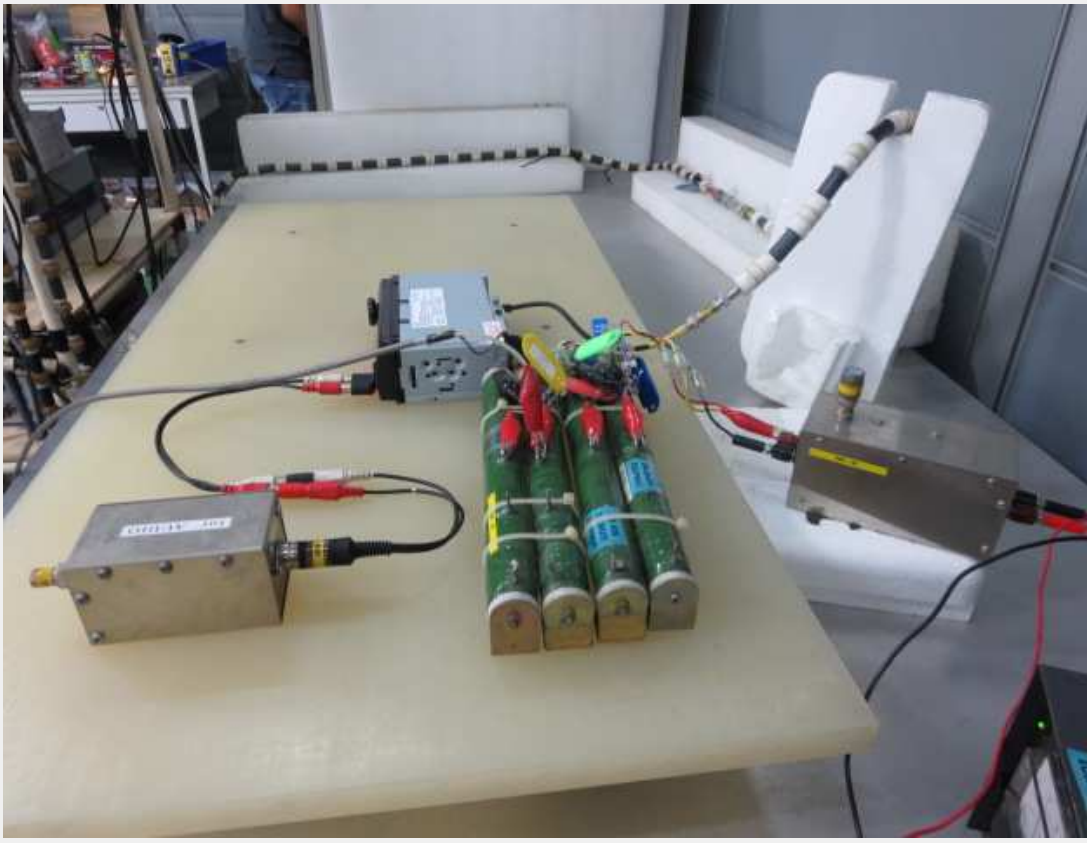
Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks	Frequency [MHz]	Results [dBuV]	Limit [dBuV]	Margin [dB]	Remarks

No degradations !

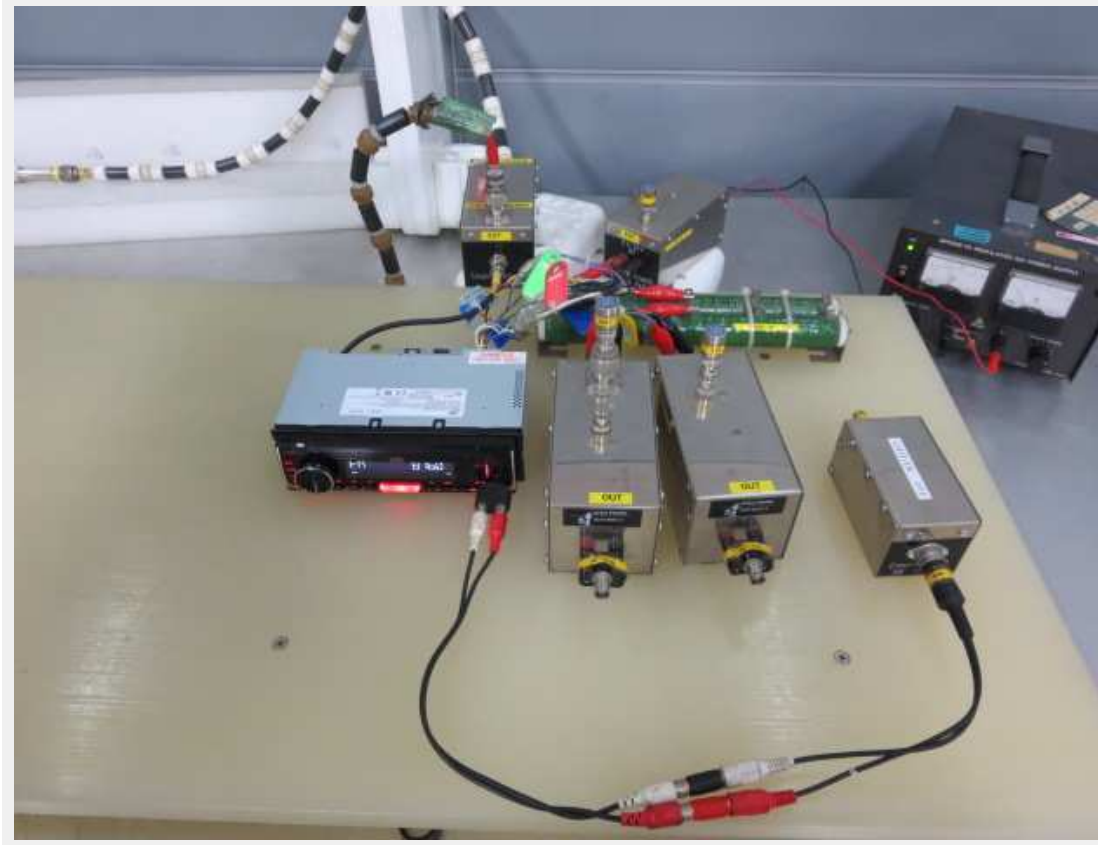
Picture 1 : Antenna Input Immunity (S1) Setup



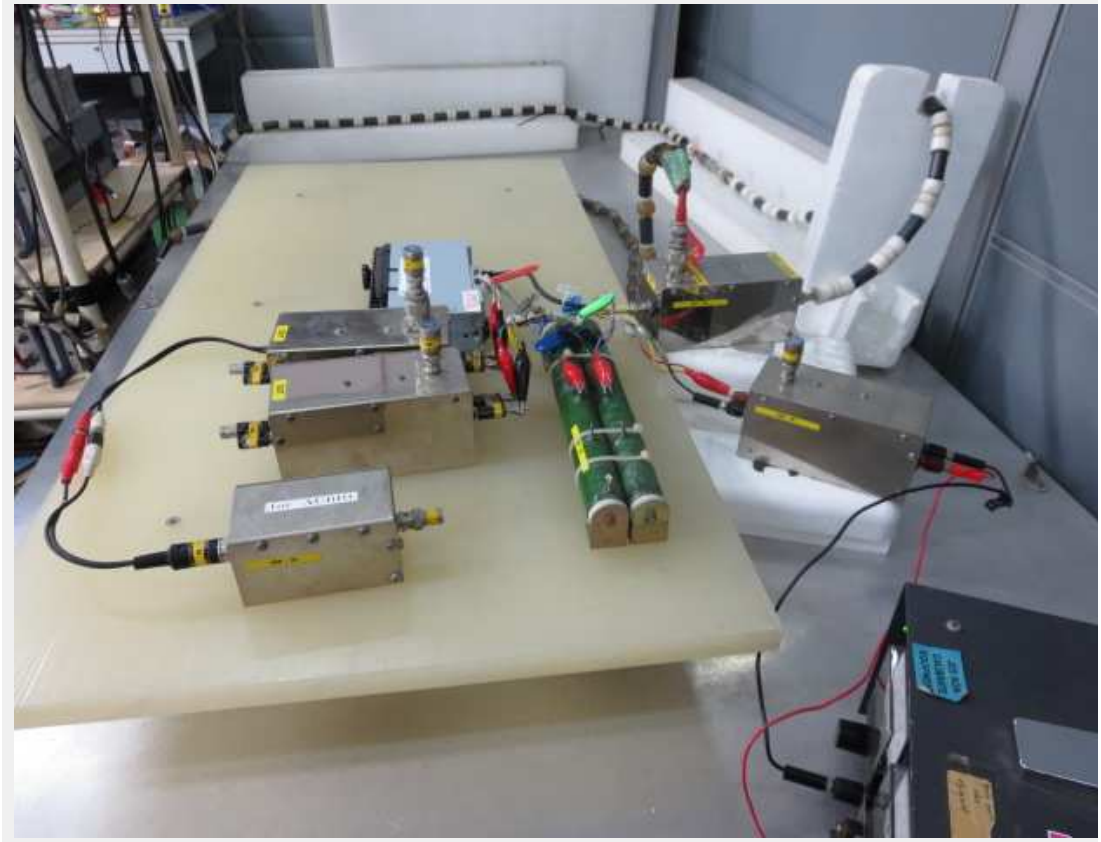
Picture 2 : Antenna Input Immunity (S1) Setup



Picture 3 : Immunity to induced current (S2b) Setup



Picture 4 : Immunity to induced current (S2b) Setup



Electrostatic Discharge Immunity Test [ESD]

Trade name	: JVC		**Test Specification**	: EN55020 (IEC 61000-4-2)	
Model name	: KD-X262		**Test Site**	: JKTS	
Type	: DIGITAL MEDIA RECEIVER		**Temperature**	: 25	℃
Power supply	: DC 12V		**Humidity**	: 50	%
Serial no.	: 113X0016		**Air Pressure**	: 1000	hPa
Date	: 13-Jul-18		**Tested by**	: SARAH	
Firmware Version	: V0.100		**Development Stage**	: PP	
Operating Mode	: Tuner (FM98.0 MHz)		**Test Level:**	Air Discharge (Level 3, test Voltage ± 8kV)	

Air Discharge Point	Ref. Point	Air Discharge Voltage Polarity(kV)	Performance Criteria											Remarks
			Prior testing	No. of Discharge(s)										
				1	2	3	4	5	6	7	8	9	10	
Detach Button	A1	+		A									▶	
		-		A									▶	
Panel	A2	+		A									▶	
		-		A									▶	
↓	A3	+		A									▶	
		-		A									▶	
↓	A4	+		A									▶	
		-		A									▶	
SRC Button	A5	+		A									▶	
		-		A									▶	
I◀◀ ▶▶I	A6	+		A									▶	
		-		A									▶	
🔍/↩	A7	+		A									▶	
		-		A									▶	
VOL Knob	A8	+		A									▶	
		-		A									▶	
↓	A9	+		A									▶	
		-		A									▶	
Preset Buttons 1	A10	+		A									▶	
		-		A									▶	
Preset Buttons 2	A11	+		A									▶	
		-		A									▶	
Preset Buttons 3	A12	+		A									▶	
		-		A									▶	
iPod/USB Button	A13	+		A									▶	
		-		A									▶	
Preset Buttons 4	A14	+		A									▶	
		-		A									▶	
Preset Buttons 5	A15	+		A									▶	
		-		A									▶	
Preset Buttons 6	A16	+		A									▶	
		-		A									▶	
☐·☼	A17	+		A									▶	
		-		A									▶	
Aux Jack	A18	+		A									▶	
		-		A									▶	
DISPLAY	A19	+		A									▶	
		-		A									▶	
↓	A20	+		A									▶	
		-		A									▶	
↓	A21	+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	

*Results: A ……Performance within specification limits.
B ……Temporary degradation which is self-recoverable.
C ……Temporary degradation which requires operator intervention
D ……Loss of function which is not recoverable.

*Additional Parameters: ○……Fully discharge , □……Spark only , △……No discharge

Electrostatic Discharge Immunity Test [ESD]

R&D EMC-R-03

Trade name	: JVC	**Test Specification**	: EN55020 (IEC 61000-4-2)		
Model name	: KD-X262	**Test Site**	: JKTS		
Type	: DIGITAL MEDIA RECEIVER	**Temperature**	: 25	℃	
Power supply	: DC 12V	**Humidity**	: 50	%	
Serial no.	: 113X0016	**Air Pressure**	: 1000	hPa	
Date	: 13-Jul-18	**Tested by**	: SARAH		
Firmware Version	: V0.100	**Development Stage**	: PP		
Operating Mode	: Tuner (FM98.0 MHz)	**Test Level:**	Contact Discharge (Level 2, test Voltage ± 4kV)		

Contact Discharge Point	Ref. Point	Contact Discharge Voltage Polarity(kV)	Performance Criteria											Remarks
			Prior testing	No. of Discharge(s)										
				1	2	3	4	5	6	7	8	9	#	
Front USB Jack	C1	+		A									▶	
		-		A									▶	
Front USB	C2	+		A									▶	Not Applicable
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
Indirect Discharge Point														
HCP	Center	+		A									▶	
		-		A									▶	
VCP	Top Center	+		A									▶	
		-		A									▶	
VCP	Rear Bottom Center	+		A									▶	
		-		A									▶	
VCP	Left Center	+		A									▶	
		-		A									▶	
VCP	Right Center	+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
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		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	

*Results: A ……Performance within specification limits.
B ……Temporary degradation which is self-recoverable.
C ……Temporary degradation which requires operator intervention
D ……Loss of function which is not recoverable.

*Additional Parameters: ○……Fully discharge , □……Spark only , △……No discharge

Electrostatic Discharge Immunity Test [ESD]

Trade name	: JVC		**Test Specification**	: EN55020 (IEC 61000-4-2)	
Model name	: KD-X262		**Test Site**	: JKTS	
Type	: DIGITAL MEDIA RECEIVER		**Temperature**	: 25	℃
Power supply	: DC 12V		**Humidity**	: 50	%
Serial no.	: 113X0016		**Air Pressure**	: 1000	hPa
Date	: 13-Jul-18		**Tested by**	: SARAH	
Firmware Version	: V0.100		**Development Stage**	: PP	
Operating Mode	: USB (1kHz Playback)		**Test Level:**	Air Discharge (Level 3, test Voltage ± 8kV)	

Air Discharge Point	Ref. Point	Air Discharge Voltage Polarity(kV)	Performance Criteria											Remarks
			Prior testing	No. of Discharge(s)										
				1	2	3	4	5	6	7	8	9	10	
Detach Button	A1	+		A									→	
		-		A									→	
Panel	A2	+		A									→	
		-		A									→	
↓	A3	+		A									→	
		-		A									→	
↓	A4	+		A									→	
		-		A									→	
SRC Button	A5	+		A									→	
		-		A									→	
I◄◄ ►►I	A6	+		A									→	
		-		A									→	
Q / ⮌	A7	+		A									→	
		-		A									→	
VOL Knob	A8	+		A									→	
		-		A									→	
↓	A9	+		A									→	
		-		A									→	
Preset Buttons 1	A10	+		A									→	
		-		A									→	
Preset Buttons 2	A11	+		A									→	
		-		A									→	
Preset Buttons 3	A12	+		A									→	
		-		A									→	
iPod/USB Button	A13	+		A									→	
		-		A									→	
Preset Buttons 4	A14	+		A									→	
		-		A									→	
Preset Buttons 5	A15	+		A									→	
		-		A									→	
Preset Buttons 6	A16	+		A									→	
		-		A									→	
⧉·☼	A17	+		A									→	
		-		A									→	
Aux Jack	A18	+		A									→	
		-		A									→	
DISPLAY	A19	+		A									→	
		-		A									→	
↓	A20	+		A									→	
		-		A									→	
↓	A21	+		A									→	
		-		A									→	
		+		A									→	
		-		A									→	
		+		A									→	
		-		A									→	
		+		A									→	
		-		A									→	
		+		A									→	
		-		A									→	

*Results: A ……Performance within specification limits.
B ……Temporary degradation which is self-recoverable.
C ……Temporary degradation which requires operator intervention
D ……Loss of function which is not recoverable.

*Additional Parameters: ○……Fully discharge , □……Spark only , △……No discharge

Electrostatic Discharge Immunity Test [ESD]

R&D EMC-R-03

Trade name	: JVC	**Test Specification**	: EN55020 (IEC 61000-4-2)		
Model name	: KD-X262	**Test Site**	: JKTS		
Type	: DIGITAL MEDIA RECEIVER	**Temperature**	: 25	℃	
Power supply	: DC 12V	**Humidity**	: 50	%	
Serial no.	: 113X0016	**Air Pressure**	: 1000	hPa	
Date	: 13-Jul-18	**Tested by**	: SARAH		
Firmware Version	: V0.100	**Development Stage**	: PP		
Operating Mode	: USB (1kHz Playback)	**Test Level:**	Contact Discharge (Level 2, test Voltage ± 4kV)		

Contact Discharge Point	Ref. Point	Contact Discharge Voltage Polarity(kV)	Performance Criteria											Remarks
			Prior testing	No. of Discharge(s)										
				1	2	3	4	5	6	7	8	9	#	
Front USB Jack	C1	+		A									▶	Not Applicable
		-		A									▶	
Front USB	C2	+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
Indirect Discharge Point														
HCP	Center	+		A									▶	
		-		A									▶	
VCP	Top Center	+		A									▶	
		-		A									▶	
VCP	Rear Bottom Center	+		A									▶	
		-		A									▶	
VCP	Left Center	+		A									▶	
		-		A									▶	
VCP	Right Center	+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
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		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	

*Results: A ……Performance within specification limits.
B ……Temporary degradation which is self-recoverable.
C ……Temporary degradation which requires operator intervention
D ……Loss of function which is not recoverable.

*Additional Parameters: ○……Fully discharge , □……Spark only , △……No discharge

Electrostatic Discharge Immunity Test [ESD]

Trade name	: JVC		**Test Specification**	: EN55020 (IEC 61000-4-2)	
Model name	: KD-X262		**Test Site**	: JKTS	
Type	: DIGITAL MEDIA RECEIVER		**Temperature**	: 25	℃
Power supply	: DC 12V		**Humidity**	: 50	%
Serial no.	: 113X0016		**Air Pressure**	: 1000	hPa
Date	: 13-Jul-18		**Tested by**	: SARAH	
Firmware Version	: V0.100		**Development Stage**	: PP	
Operating Mode	: AUX		**Test Level:**	Air Discharge (Level 3, test Voltage ± 8kV)	

Air Discharge Point	Ref. Point	Air Discharge Voltage Polarity(kV)	Performance Criteria											Remarks
			Prior testing	No. of Discharge(s)										
				1	2	3	4	5	6	7	8	9	10	
Detach Button	A1	+		A									→	
		-		A									→	
Panel	A2	+		A									→	
		-		A									→	
↓	A3	+		A									→	
		-		A									→	
↓	A4	+		A									→	
		-		A									→	
SRC Button	A5	+		A									→	
		-		A									→	
I◄◄ ►►I	A6	+		A									→	
		-		A									→	
Q / ⮌	A7	+		A									→	
		-		A									→	
VOL Knob	A8	+		A									→	
		-		A									→	
↓	A9	+		A									→	
		-		A									→	
Preset Buttons 1	A10	+		A									→	
		-		A									→	
Preset Buttons 2	A11	+		A									→	
		-		A									→	
Preset Buttons 3	A12	+		A									→	
		-		A									→	
iPod/USB Button	A13	+		A									→	
		-		A									→	
Preset Buttons 4	A14	+		A									→	
		-		A									→	
Preset Buttons 5	A15	+		A									→	
		-		A									→	
Preset Buttons 6	A16	+		A									→	
		-		A									→	
⧉·☼	A17	+		A									→	
		-		A									→	
Aux Jack	A18	+		A									→	Not Applicable
		-		A									→	
DISPLAY	A19	+		A									→	
		-		A									→	
↓	A20	+		A									→	
		-		A									→	
↓	A21	+		A									→	
		-		A									→	
		+		A									→	
		-		A									→	
		+		A									→	
		-		A									→	
		+		A									→	
		-		A									→	
		+		A									→	
		-		A									→	

*Results: A ……Performance within specification limits.
B ……Temporary degradation which is self-recoverable.
C ……Temporary degradation which requires operator intervention
D ……Loss of function which is not recoverable.

*Additional Parameters: ○……Fully discharge , □……Spark only , △……No discharge

Electrostatic Discharge Immunity Test [ESD]

R&D EMC-R-03

Trade name	:	JVC	**Test Specification**	:	EN55020 (IEC 61000-4-2)		
Model name	:	KD-X262	**Test Site**	:	JKTS		
Type	:	DIGITAL MEDIA RECEIVER	**Temperature**	:	25	℃	
Power supply	:	DC 12V	**Humidity**	:	50	%	
Serial no.	:	113X0016	**Air Pressure**	:	1000	hPa	
Date	:	13-Jul-18	**Tested by**	:	SARAH		
Firmware Version	:	V0.100	**Development Stage**	:	PP		
Operating Mode	:	AUX	**Test Level:**		Contact Discharge (Level 2, test Voltage ± 4kV)		

Contact Discharge Point	Ref. Point	Contact Discharge Voltage Polarity(kV)	Performance Criteria											Remarks
			Prior testing	No. of Discharge(s)										
				1	2	3	4	5	6	7	8	9	#	
Front USB Jack	C1	+		A									▶	
		-		A									▶	
Front USB	C2	+		A									▶	Not Applicable
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
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		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
Indirect Discharge Point														
HCP	Center	+		A									▶	
		-		A									▶	
VCP	Top Center	+		A									▶	
		-		A									▶	
VCP	Rear Bottom Center	+		A									▶	
		-		A									▶	
VCP	Left Center	+		A									▶	
		-		A									▶	
VCP	Right Center	+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
		+		A									▶	
		-		A									▶	
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		+		A									▶	
		-		A									▶	

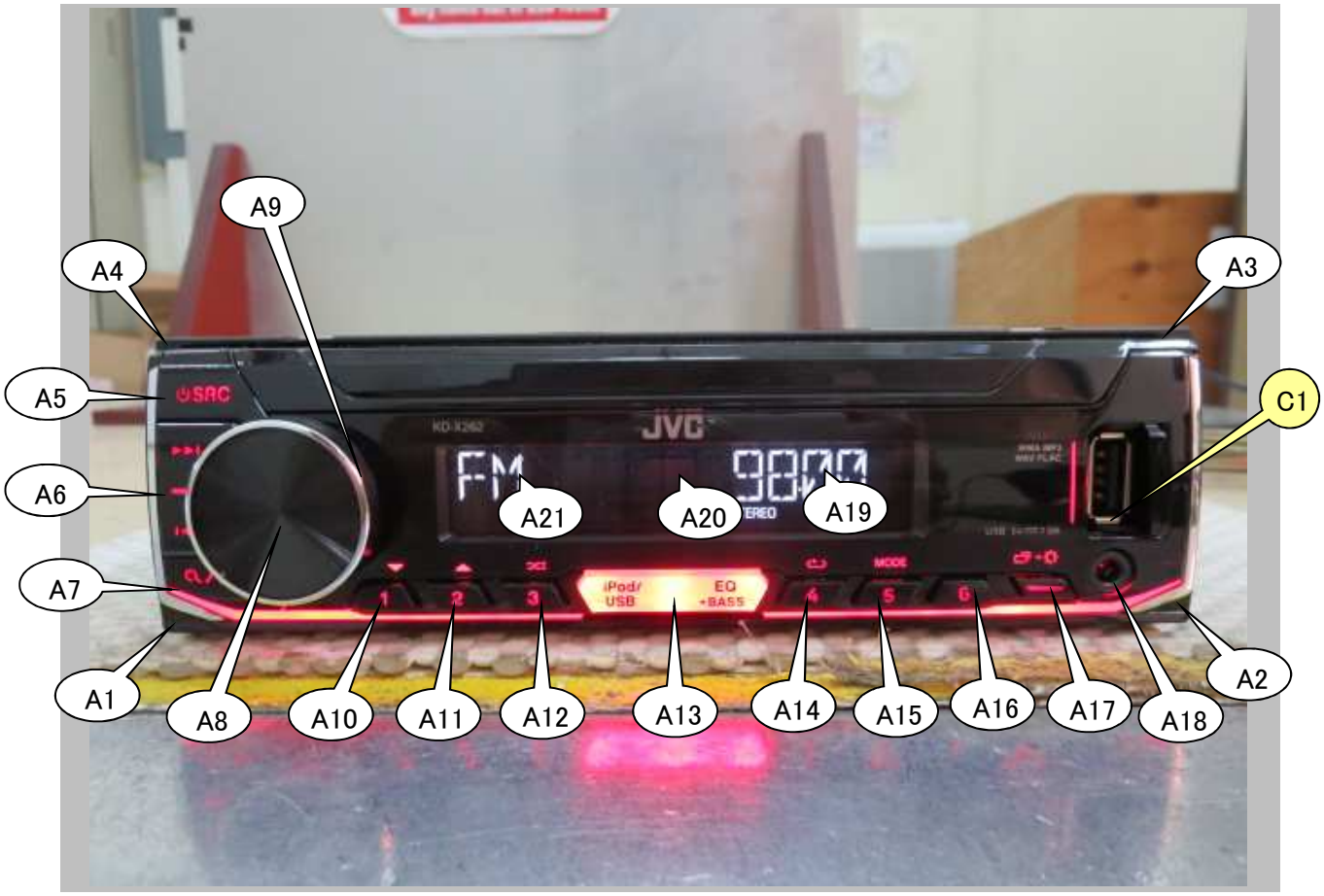
*Results: A ……Performance within specification limits.
B ……Temporary degradation which is self-recoverable.
C ……Temporary degradation which requires operator intervention
D ……Loss of function which is not recoverable.

*Additional Parameters: ○……Fully discharge , □……Spark only , △……No discharge

Points at which discharges are applied

"A" denotes air discharge, "C" denotes contact discharge

Picture 1 : KD-X262



Picture 2 : KD-X262

JVC KENWOOD
creates excitement & peace of mind

JKTS EMC EQUIPMENT LIST 2018/2019

Semi-Anechoic Chamber for Disturbance Radiation (3m) Equipment Setup

	Instrumentation	Type no.	Manufacturer	Date of calibration
■	EMI TEST RECEIVER	ESPI3	Rohde & Schwarz	26-Feb-18
■	PRE-AMPLIFIER	310N	SONOMA	8-Mar-18
■	BILOG ANTENNA	CBL6111D	SCHAFFNER	19-Feb-18
■	MATCHING PAD	BT3127	AEROFLEX WEINSCHEL	-

Semi-Anechoic Chamber for Disturbance Radiation (1m) Equipment Setup

	Instrumentation	Type no.	Manufacturer	Date of calibration
■	EMI TEST RECEIVER	ESPI3	Rohde & Schwarz	26-Feb-18
■	PRE-AMPLIFIER	310N	SONOMA	8-Mar-18
■	BILOG ANTENNA	CBL6111D	SCHAFFNER	19-Feb-18
■	MATCHING PAD	BT3127	AEROFLEX WEINSCHEL	-
■	L.I.S.N.	NNBM 8125	SCHWARZBECK	28-Mar-18

IMMUNITY TEST for S1/ S2a/ S2b Equipment Setup

	Instrumentation	Type no.	Manufacturer	Date of calibration
■	SIGNAL GENERATOR	SMG	Rohde & Schwarz	6-Mar-18
■	AUDIO ANALYZER	UPA	Rohde & Schwarz	27-Feb-18
	SPECIAL FILTER	UPA-B2	Rohde & Schwarz	-
	AF GENERATOR	UPA-B6	Rohde & Schwarz	-
■	RF POWER SENSOR	NRV-Z5	Rohde & Schwarz	6-Mar-18
■	RF RELAIS MATRIX	PSU	Rohde & Schwarz	-
■	RF AMPLIFIER	325LA	ENI	-
■	RF VOLT METER	URV5	Rohde & Schwarz	6-Mar-18
■	POWER DIVIDER	AUF 1603	KYORITSU D.K.	-
■	BANDPASS FILTER	BPF2	E.FIEDLER	-
■	LOWPASS FILTER	IHF-200-A FILTER	KENWOOD	-
■	OSCILLOSCOPE	CS-5170	KENWOOD	-
■	MATCHING PAD	ZT187	TME	-
■	POWER SPLITTER	ZFSC-2-4	MINI CIRCUITS	-

Transient Emission / Immunity Equipment Setup

	Instrumentation	Type no.	Manufacturer	Date of calibration
■	DIGITAL PHOSPHOR OSCILLOSCOPE	DPO4104	TEKTRONIX	31-Mar-18
■	PROBE	TEKP5100	TEKTRONIX	-
■	L.I.S.N.	LISN2-S	TESEQ	28-Mar-18
■	NSG 5500 SYSTEM			
	Automotive Surge Simulator	MT5511	SCHAFFNER	26-Mar-18
	Automotive Burst Simulator	FT5530	SCHAFFNER	26-Mar-18
■	NSG5600 SYSTEM			
	Function Generator	FG5620	SCHAFFNER	19-Mar-18
■	POWER AMPLIFIER/BATTERY SIMULATOR	PA5840	SCHAFFNER	19-Mar-18

Electrostatic Discharge (ESD) Test Equipment Setup

	Instrumentation	Type no.	Manufacturer	Date of calibration
■	ESD Simulator	ESD 3000	EMC PARTNER	1-Feb-18

Test site: EMI Shield Room at JKTS in Singapore

<Disturbance Voltage at Antenna Terminal>

	Instrumentation	Type no.	Manufacturer	Date of calibration
■	EMI TEST RECEIVER	ESPI3	ROHDE & SCHWARZ	2-Mar-18
■	POWER SPLITTER	ZFRSC-2050	MINI CURCUITS	-
■	SIGNAL GENERATOR	KSG-4110	KIKUSUI	30-Jun-18
■	MATCHING PAD(MPRAM-01)	11852B	AGILENT	-

<Disturbance Power>

	Instrumentation	Type no.	Manufacturer	Date of calibration
■	EMI TEST RECEIVER	ESPI3	ROHDE & SCHWARZ	2-Mar-18
■	ABSORBING CLAMP	MDS21	LUTHI	14-Feb-18
■	MATCHING PAD	J01006A0835	-	-